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1.3 aws-sdk-go 1.35.24

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1.6 spew 1.1.1

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1.7 blang-semver 3.5.1+incompatible

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1.8 queue 1.1.0

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1.9 groupcache 0.0.0-20200121045136-8c9f03a8e57e

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1.10 opencontainers-go-digest 1.0.0

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1.11 modern-go-concurrent 0.0.0- 20180306012644-bacd9c7ef1dd

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1.15 jcmtturner-rpc 2.0.3

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1.16 euank-go-kmsg-parser

2.0.0+incompatible

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1.17 jcmtturner-aescts 2.0.0

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1.18 jcmtturner-dnsutils 2.0.0

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1.19 josharian-intern 1.0.0

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1.21 mwitkow-go-contrack 0.0.0-

20190716064945-2f068394615f

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1.22 beevik-ntp 0.3.0

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Mikhail Salosin (AlphaB)

Anton Tolchanov (knyar)

Christopher Batey (chbatey)

Meng Zhuo (mengzhuo)

Leonid Evdokimov (darkk)

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1.23 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.24 go.uber.org/atomi 1.7.0

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1.25 spf13-pflag 1.0.5

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1.28 errors 0.9.1

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1.29 gopkg.in-inf 0.9.1

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1.30 go-connections 0.4.0

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1.31 logfmt 0.5.1

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1.34 jpillora-backoff 1.0.0

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1.35 go-xmlrpc 0.0.3

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1.38 jwalterweatherman 1.1.0

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1.39 goprotobuf 1.5.2

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Anton Povarov <anton.povarov@gmail.com>

Brian Goff <cpuguy83@gmail.com>

Clayton Coleman <ccoleman@redhat.com>

Denis Smirnov <denis.smirnov.91@gmail.com>

DongYun Kang <ceram1000@gmail.com>

Dwayne Schultz <dschultz@pivotal.io>

Georg Apitz <gapitz@pivotal.io>

Gustav Paul <gustav.paul@gmail.com>

Johan Brandhorst <johan.brandhorst@gmail.com>

John Shahid <jvshahid@gmail.com>

John Tuley <john@tuley.org>

Laurent <laurent@adyoulike.com>

Patrick Lee <patrick@dropbox.com>

Peter Edge <peter.edge@gmail.com>

Roger Johansson <rogeralsing@gmail.com>

Sam Nguyen <sam.nguyen@sendgrid.com>

Sergio Arbo <serabe@gmail.com>

Stephen J Day <stephen.day@docker.com>

Tamir Duberstein <tamird@gmail.com>

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1.40 hcl 1.0.0

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1.41 easyjson 0.7.7

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1.42 abbot-go-http-auth 0.4.0

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1.45 logrus 1.8.1

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1.46 go-multierror 1.1.1

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* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/META-INF/native-image/native-image.properties

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* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/internal/YamlFileTypeDetector.java

* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/YamlConfigParserBuilder.java

* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/internal/package-info.java

* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/package-info.java

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* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/internal/YamlConfigParser.java

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* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/META-INF/maven/io.helidon.config/helidon-config-yaml/pom.xml

1.49 xxhash 2.1.2

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1.50 google-uuid 1.3.0

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

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1.51 containerd-console 1.0.3

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1.52 rican7-retry 0.3.1

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1.53 opencontainers-image-spec 1.0.2

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1.54 utils 0.0.0-20211116205334-6203023598ed

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1.55 containerd-ttrpc 1.1.0

1.55.1 Available under license :

Apache License

Version 2.0, January 2004

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1.56 cilium-ebpf 0.7.0

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1.57 aws-sdk-go-v2 1.21.0

1.57.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns  
...func(*Options)) (*ListReceivedLicensesOutput, error) {  
    if params == nil {  
        params = &ListReceivedLicensesInput{ }  
    }  
}
```

```
    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,  
c.addOperationListReceivedLicensesMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
}
```

```
    out := result.(*ListReceivedLicensesOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}
```

```
type ListReceivedLicensesInput struct {
```

```

// Filters to scope the results. The following filters are supported:
//
// *
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)

```

```

if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

```

```

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```

```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```



```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
}

```

```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
name: License Scan

on: [pull_request]

jobs:
  licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.9]

    steps:
      - name: Checkout target
        uses: actions/checkout@v2
        with:
          path: sdkbase
          ref: ${{ github.base_ref }}
      - name: Checkout this ref
        uses: actions/checkout@v2
        with:
          path: new-ref
          fetch-depth: 0
      - name: Get Diff
        run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}

```

```

${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
    fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
  uses: actions/setup-python@v2
  with:
    python-version: ${{ matrix.python-version }}
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,

```

```

c.addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.

```

```

LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```



```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

```

```

// The type of license to remove from the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,

```

```

ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//

```

```

// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.

```

```

NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {

```

```

    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
    if err != nil {
        return err
    }
}

```



```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists the licenses for your account.

```

func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
if params == nil {
params = &ListLicensesInput{}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

```

```

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}

```

```

    }
    if err = addResponseErrorMiddleware(stack); err != nil {
        return err
    }
    if err = addRequestResponseLogging(stack, options); err != nil {
        return err
    }
    return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{

```

```
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //

```

```

// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

1.58 gofuzz 1.2.0

1.58.1 Available under license :

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1.59 github.com/checkpoint-restore/go-criu/v5 5.3.0

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1.61 logr 1.2.3

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1.62 go-uuid 1.2.1-0.20181028125025- b2ce2384e17b

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1.64 mitchellh-mapstructure 1.5.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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1.69 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.71 go-resiliency 1.3.0

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1.72 jcmtturner-gofork 1.7.6

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1.73 prometheus-procfs 0.8.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.74 protobuf 1.28.1

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1.75 units 0.0.0-20211218093645- b94a6e3cc137

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1.76 gopkg.in-ini 1.67.0

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1.77 gopkg.in-yaml 2.4.0

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1.79 sys-mountinfo 0.6.2

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1.80 google-go-cmp 0.5.9

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1.83 dennwc-ioctl 1.0.0

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1.84 gokrb5 8.4.3

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1.87 runc 1.1.4

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1.90 fsnotify 1.6.0

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Files: internal/snapref/*

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1.92 karrick-godirwalk 1.17.0

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1.93 googleapis-enterprise-certificate-proxy

0.2.0

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1.94 pierrec-lz4 4.1.17

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1.95 sarama 1.37.2

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1.96 sigs.k8s.io-json 0.0.0-20221116044647-bc3834ca7abd

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1.97 grpc-go 1.51.0

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1.98 kardianos-service 1.2.2

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1.99 x-sys 0.3.0

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1.100 x-text 0.5.0

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1.101 golang-protobuf-extensions 1.0.4

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1.102 go-uber-org-multierr 1.6.0

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1.103 x-net 0.4.0

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1.104 x-time-rate 0.3.0

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1.105 go-compute-metadata 0.2.2

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```
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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```



```

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (

"bytes"


```

"context"
"fmt"
"io/ioutil"
"math"
"net/http"
"net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete:      []gax.CallOption{ },
Get:         []gax.CallOption{ },
GetIamPolicy: []gax.CallOption{ },
Insert:      []gax.CallOption{ },
List:        []gax.CallOption{ },
SetIamPolicy: []gax.CallOption{ },
TestIamPermissions: []gax.CallOption{ },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error

```

```

setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

```

type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

```

// The call options for this service.

```

CallOptions *LicensesCallOptions
}

```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```

func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

```

// Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

```

func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

```

```

}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is

```

```
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```
type licensesRESTClient struct {
// The http endpoint to connect to.
endpoint string
```

```
// The http client.
httpClient *http.Client
```

```
// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient
```

```
// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD
```

```
// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions
}
```

// NewLicensesRESTClient creates a new licenses rest client.

//

// The Licenses API.

```
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}
}
```

```
callOpts := defaultLicensesRESTCallOptions()
```

```
c := &licensesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
CallOptions: &callOpts,
}
```

```
c.setGoogleClientInfo()
```

```
o := []option.ClientOption{
option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
```

```

opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts

```

```

...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
    })
}

```

```

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

```



```

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}

```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
```

```

...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{ AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}
}

```

```

}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {

```

```

return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
}

```

```

    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
}

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

```

```

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}

```

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {

```

```

    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {

```



```

var item *computepb.License
if err := it.nextFunc(); err != nil {
    return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"

```

```

httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{ },
        TestIamPermissions: []gax.CallOption{ },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

```

```

// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

```

```

// Points back to the CallOptions field of the containing LicenseCodesClient
CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
}

```

```

return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {

```

```

    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
}

```



```

}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

1.106 x-oauth2 0.3.0

1.106.1 Available under license :

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1.107 wifi 0.0.0-20220330172155-a44c70b6d3c8

1.107.1 Available under license :

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1.108 hashicorp-go-envparse 0.1.0

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1.113 properties 1.8.7

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1.114 godbus 5.0.6

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1.115 golang-genproto 0.0.0-20221206210731-b1a01be3a5f6

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1.116 gotenv 1.4.2

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1.117 josharian-native 1.1.0

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1.118 gax-go 2.7.0

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1.119 godotenv 1.5.1

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1.120 nanoframework.system.device.i2c 1.1.9

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1.121 lumberjack 2.2.1

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1.122 gogo-protobuf 1.3.2

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Brian Goff <cpuguy83@gmail.com>

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1.123 eapache-go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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1.124 inconshreveable-mousetrap 1.1.0

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1.125 curl 8.0.1

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1.126 docker 20.10.21+incompatible

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.127 protobuf 1.30.0

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Found in path(s):

```
* /opt/cola/permits/1616540910_1680738910.646192/0/google-api-client-protobuf-1-30-0-sources-  
jar/com/google/api/client/googleapis/testing/services/protobuf/MockGoogleProtoClientRequest.java  
* /opt/cola/permits/1616540910_1680738910.646192/0/google-api-client-protobuf-1-30-0-sources-  
jar/com/google/api/client/googleapis/services/protobuf/CommonGoogleProtoClientRequestInitializer.java  
* /opt/cola/permits/1616540910_1680738910.646192/0/google-api-client-protobuf-1-30-0-sources-  
jar/com/google/api/client/googleapis/services/protobuf/AbstractGoogleProtoClient.java  
* /opt/cola/permits/1616540910_1680738910.646192/0/google-api-client-protobuf-1-30-0-sources-  
jar/com/google/api/client/googleapis/services/protobuf/package-info.java  
* /opt/cola/permits/1616540910_1680738910.646192/0/google-api-client-protobuf-1-30-0-sources-  
jar/com/google/api/client/googleapis/testing/services/protobuf/package-info.java  
* /opt/cola/permits/1616540910_1680738910.646192/0/google-api-client-protobuf-1-30-0-sources-  
jar/com/google/api/client/googleapis/services/protobuf/AbstractGoogleProtoClientRequest.java  
* /opt/cola/permits/1616540910_1680738910.646192/0/google-api-client-protobuf-1-30-0-sources-
```

1.128 goprotobuf 1.5.3

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1.129 xhit-go-str2duration 2.1.0

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1.130 kingpin 2.3.2

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1.131 hodgesds-perf-utils 0.7.0

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1.132 dennwc-btrfs 0.0.0-20230312211831-a1f570bd01a1

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1.133 opencontainers-selinux 1.11.0

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1.134 godbus 5.1.0

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1.135 go-uber-org-multierr 1.11.0

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1.137 x-text 0.9.0

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1.138 go-restful 3.10.2

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1.139 logr 1.2.4

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/*!

* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

* Copyright 2015 Aidan Feldman

* Licensed under MIT (<https://github.com/afeld/bootstrap-toc/blob/gh-pages/LICENSE.md>) */

Found in path(s):

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js

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/*

Source: <https://github.com/algolia/docsearch/>

License: MIT

*/

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* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/docs/docsearch.css

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Package: logr

Title: Creates Log Files

Version: 1.2.4

Authors@R:

```
person(given = "David",
       family = "Bosak",
       role = c("aut", "cre"),
       email = "dbosak01@gmail.com")
```


Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log_print() function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 3.4.0)

Suggests: knitr,

rmarkdown,

testthat,

tidylog,

dplyr,

utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION

1.140 cobra 1.7.0

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// Awesomeplete - Lea Verou - MIT license

Found in path(s):

* /opt/cola/permits/1640692646_1681936294.8887305/0/project-nisei-cobra-v1-7-0-0-g008e1ef-tar-gz/Project-NISEI-cobra-008e1ef/app/assets/javascripts/awesomeplete.js

1.141 afero 1.9.5

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1.142 ethtool 0.3.0

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1.143 golang 1.20.4

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1.146 prometheus-client 1.15.1

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1.147 x-sys 0.8.0

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1.148 x-net 0.10.0

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1.149 docker-distribution 2.8.2+incompatible

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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1.152 olivere-elastic 2.0.61

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1.154 go-logr-zapr 1.2.4

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1.155 cast 1.5.1

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1.156 go-winio 0.6.1

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1.157 gopsutil 3.21.11+incompatible

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1.158 kubernetes-klog 2.100.1

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1.159 prometheus-common 0.44.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.162 mdlayher-socket 0.4.1

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1.168 prometheus-community-go-runit 0.1.0

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1.169 genetlink 1.3.1

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1.170 mdlayer-ethtool 0.0.0-

20221212131811-ba3b4bc2e02c

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1.171 prometheus-exporter-toolkit 0.10.0

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1.172 x-oauth2 0.8.0

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1.173 mergo 0.3.16

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

1.174 numcpus 0.6.1

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1.175 go-openapi-swag 0.22.4

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1.176 protobuf 1.31.0

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1.181 go-openapi-jsonpointer 0.20.0

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1.182 structured-merge-diff 4.3.0

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1.183 zap 1.25.0

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1.184 proto-otlp 1.0.0

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1.185 prometheus-node-exporter 1.6.1

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1.186 go-sysconf 0.3.12

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1.187 kube-openapi 0.0.0-20230717233707-2695361300d9

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"
```

```
    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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Name <email address>

Raul Silvera <rsilvera@google.com>

Tipp Moseley <tipp@google.com>

Hyoun Kyu Cho <netforce@google.com>

Martin Spier <spiermar@gmail.com>

Taco de Wolff <tacodewolff@gmail.com>

Andrew Hunter <andrewhhunter@gmail.com>

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1.190 golang 1.20.4

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1.191 aws-smithy-go 1.14.2

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1.192 google-uuid 1.3.1

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

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1.195 golang 1.21.1

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In a nutshell:

```
```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

assert.deepEqual(
 // Licensed under the terms of the Two-Clause BSD License.
 parse('BSD-2-Clause'),
 {license: 'BSD-2-Clause'}
)

assert.throws(function () {
 // An invalid SPDX license expression.
 // Should be `Apache-2.0`.
 parse('Apache 2')
})

assert.deepEqual(
 // Dual licensed under LGPL 2.1 or a combination of the Three-Clause
 // BSD License and the MIT License.
 parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'),
 {
 left: {license: 'LGPL-2.1'},
 conjunction: 'or',
 right: {
 left: {license: 'BSD-3-Clause'},
 conjunction: 'and',
 right: {license: 'MIT'}
 }
 }
)
```
```

The syntax comes from the [Software Package Data eXchange (SPDX)](<https://spdx.org/>), a standard from the [Linux Foundation](<https://www.linuxfoundation.org>) for shareable data about software package license terms. SPDX aims to make sharing and auditing license data easy, especially for users of open-source software.

The bulk of the SPDX standard describes syntax and semantics of XML metadata files. This package implements two lightweight, plain-text components of that larger standard:

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Any license identifier from the license list is a valid license expression:

```
```javascript
require('spdx-license-ids').forEach(function (id) {
 assert.deepEqual(parse(id), {license: id})
})
```
```

So is any license identifier `WITH` a standardized license exception:

```
```javascript
require('spdx-license-ids').forEach(function (id) {
 require('spdx-exceptions').forEach(function (e) {
 assert.deepEqual(
 parse(id + ' WITH ' + e),
 {license: id, exception: e}
)
 })
})
```
```

2. The license expression language, for describing simple and complex license terms, like `MIT` for MIT-licensed and `(GPL-2.0 OR Apache-2.0)` for dual-licensing under GPL 2.0 and Apache 2.0. This package implements the license expression language.

```
```javascript
assert.deepEqual(
 // Licensed under a combination of the MIT License and a combination
 // of LGPL 2.1 (or a later version) and the Three-Clause BSD License.
 parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause)'),
 {
 left: {license: 'MIT'},
 conjunction: 'and',
 right: {
 left: {license: 'LGPL-2.1', plus: true},
 }
 }
)
```

```
 conjunction: 'and',
 right: {license: 'BSD-3-Clause'}
 }
}
)
...

```

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// Original can be found at:

// <https://bitbucket.org/lindenlab/lld>

// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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## Use as a JavaScript Library

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[![devDependency Status](https://david-dm.org/shinnn/spdx-license-ids/dev-status.svg)](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)

### Installation

#### Package managers

##### [npm](https://www.npmjs.com/)

```
```sh
npm install spdx-license-ids
```
```

##### [bower](http://bower.io/)

```
```sh
bower install spdx-license-ids
```
```

##### [Duo](http://duojs.org/)

```
```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```
```

#### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

### API

#### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```
```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```
```

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```
````javascript
var correct = require('spdx-correct');
var assert = require('assert');

assert.equal(correct('mit'), 'MIT')

assert.equal(correct('Apache 2'), 'Apache-2.0')
```



```
assert(correct('No idea what license') === null)
```

```
```
```

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## 1.196 x-net 0.15.0

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# 1.197 grpc-go 1.58.0

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# 1.198 go-restful 3.11.0

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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```

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```

```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{ "name": "the name", "url": "the url" }`
 const licenseYAML = "name: the name\nurl: the url\n"
```

```
 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

```
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```

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## 1.201 x-oauth2 0.12.0

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## 1.202 x-oauth2 0.12.0

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## 1.203 [github.com/aws/aws-sdk-go-v2/internal/configsources](https://github.com/aws/aws-sdk-go-v2/internal/configsources) 1.1.41

### 1.203.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

```

```

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),

```

```

middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }
}

```



```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

```

```

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {

```

```

return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

```

uses: actions/setup-python@v2
with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

```

```

}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {

```



```

 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
})
}

```

```

 },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)

```

```

// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

```

```

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
}

```

```

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))

```



```

(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {

```

```

 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {

```

```

return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {

```

```

switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,

```

```

BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
 c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary

```

```

// - ProductSKU
// - Fingerprint
// - Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```



```

return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

type opListLicensesResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint

```

```

resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {

```

```

 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

```

```

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

```

}

type opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)

```

```

if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```



```

}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```
 "context"
```

```
 "errors"
```

```
 "fmt"
```

```
 "github.com/aws/aws-sdk-go-v2/aws"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
```

```
 smithyendpoints "github.com/aws/smithy-go/endpoints"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks in the specified license. Check in a license when it is no longer in use.
```

```
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
```

```
(*CheckInLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &CheckInLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
```

```
 c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*CheckInLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type CheckInLicenseInput struct {
```

```
 // License consumption token.
```

```
 //
```

```
 // This member is required.
```

```

LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 }
}

```

```

 SigningName: "license-manager",
 OperationName: "CheckInLicense",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }
}

```

```

}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }

 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:

```

```

v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
```

```

"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
..func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

```

```

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}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}

```

```

}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
}
}

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),

```

```

)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 }
}

```



```

case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
// Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```

 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 }
 }
}

```

```

ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
}
}

```

```

 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,

```

```

c.addOperationCreateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.

```



```

LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {

```

```

return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {

```

```

switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,

```

```

BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

## 1.204 [github.com/aws/aws-sdk-go-v2/service/sso](https://github.com/aws/aws-sdk-go-v2/service/sso) 1.13.6

### 1.204.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.

```

```

EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {

```



```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
}

```

```

if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)

```

```

if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 }
}

```

```

}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go  
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.  
Copyright 2014-2015 Stripe, Inc.  
name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target
  - uses: actions/checkout@v2
  - with:
    - path: sdkbase
    - ref: \${{ github.base\_ref }}
- name: Checkout this ref
  - uses: actions/checkout@v2
  - with:
    - path: new-ref
    - fetch-depth: 0
- name: Get Diff
  - run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }} \${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
  - run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  - uses: actions/checkout@v2
  - with:
    - repository: nexB/scancode-toolkit
    - path: scancode-toolkit
    - fetch-depth: 1
- name: Set up Python \${{ matrix.python-version }}
  - uses: actions/setup-python@v2
  - with:
    - python-version: \${{ matrix.python-version }}
- # ScanCode
  - name: Self-configure scancode
    - working-directory: ./scancode-toolkit
    - run: ./scancode --help
  - name: Run Scan code on target
    - run: cat targetFiles.txt | while read filename; do echo ./sdkbase/\$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short\_name | sort | uniq >> old-licenses.txt
  - name: Run Scan code on pr ref
    - run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/\$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short\_name | sort | uniq >> new-licenses.txt
  - # compare
  - name: License test

```

 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.

```

```

WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}

```

```

}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```



```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {

```

```

req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 }
}

```

```

 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

```

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (

```

```

out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(

```

```

 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

```



```

}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.

```

```

Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}

```

```

}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {

```

```

// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"

```

```

"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde

```



```

}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

```

}

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)

```

```

if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.

```

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}

```

```

}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}

type opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {

```



```

if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
)
 }
}

```

```

 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}
}

```

```

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
"context"
"errors"
```

```

"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in

```

```

middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {

```

```

return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

```



```

 }
 }

 return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

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```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
```

```

if params == nil {
 params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```



```

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError

```

```

if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:

```

```

 break
 }
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,

```

```

c.addOperationAssociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {

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return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
}

```

```

}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {

```

```

case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{

```



```

 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.

```

```
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
```

```

Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }
}

```

```

}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {

```

```

// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

## 1.205 [github.com/aws/aws-sdk-go-v2/service/internal/presigned-url](https://github.com/aws/aws-sdk-go-v2/service/internal/presigned-url) 1.9.35

## 1.205.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.

```



```

//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

```

```

}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)

```

```

if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtinResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

```

 path: sdkbase
 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"

```

```

"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```



```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```

 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 }
 }
}

```

```

ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
}
}

```

```

 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,

```

```

c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.

```

```

CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```



```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 }
}

```

```

if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

```

```

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

```

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```



```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))

```

```

(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (

```

```

out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(

```

```

 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

```

```

}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
if params == nil {
params = &DeleteLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DeleteLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```



```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }
}

```

```

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {

```

```

 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

}

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {

```

```

if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
)
 }
}

```

```

 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}
}

```

```

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
}

```



```

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsMiddleware.AddRecursionDetection(stack); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
}

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.

```

```

//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {

```



```

return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
}
}

```

```

if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"

```

```

"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.

```

ConsumptionConfiguration \*types.ConsumptionConfiguration

// License entitlements.

//

// This member is required.

Entitlements []types.Entitlement

// Home Region for the license.

//

// This member is required.

HomeRegion \*string

// License issuer.

//

// This member is required.

Issuer \*types.Issuer

// License name.

//

// This member is required.

LicenseName \*string

// Product name.

//

// This member is required.

ProductName \*string

// Product SKU.

//

// This member is required.

ProductSKU \*string

// Date and time range during which the license is valid, in ISO8601-UTC format.

//

// This member is required.

Validity \*types.DatetimeRange

// Information about the license.

LicenseMetadata []types.Metadata

noSmithyDocumentSerde

}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.

LicenseArn \*string

```

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}

```

```

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```



```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}

```

## 1.206 [github.com/aws/aws-sdk-go-](https://github.com/aws/aws-sdk-go-v2/internal/ini) v2/internal/ini 1.3.42

### 1.206.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
}

```

```

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}

```

```

}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,

```

```

) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
)
 }
 }

```

```

 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}
}

```

```
return next.HandleSerialize(ctx, in)
}
```

```
func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2



```

with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
 uses: actions/setup-python@v2
 with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
 ..func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,

```

```

c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}

```

```

}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

```

```

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {

```

```

return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {

```

```

switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,

```

```

BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.

```

```

//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

```



```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
}
}

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),

```

```

)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 }
}

```

```

case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

```

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {

```



```

return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

```

```

)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)

```

```

}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
if params == nil {
params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }
}

```

```

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {

```

```

 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}

```



```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

```

```

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{

```

```

Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,

```

```

resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}

```

```

break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
```

```

c.addOperationCheckInLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 }
}

```

```

if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
}

```



```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
 ..func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
 c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
}

```

```

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
// Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

```

```

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```



```

 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}
}

```

```

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))

```

```

(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //

```

```

// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}

```

```

}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {

```



```

if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
)
 }
}

```

```

 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}
}

```

```

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

## 1.207 [github.com/aws/aws-sdk-go-v2/service/sts](https://github.com/aws/aws-sdk-go-v2/service/sts) 1.21.5

### 1.207.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

```

```

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }
}

```

```

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {

```



```

 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

```
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan
```

```
on: [pull_request]
```

```
jobs:
```

```
 licensescan:
```

```
 name: License Scan
```

```
 runs-on: ubuntu-latest
```

```
 strategy:
```

```
 matrix:
```

```
 python-version: [3.9]
```

```
 steps:
```

```
 - name: Checkout target
```

```
 uses: actions/checkout@v2
```

```
 with:
```

```
 path: sdkbase
```

```
 ref: ${{ github.base_ref }}
```

```
 - name: Checkout this ref
```

```
 uses: actions/checkout@v2
```

```
 with:
```

```
 path: new-ref
```

```
 fetch-depth: 0
```

```
 - name: Get Diff
```

```
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
```

```
 ${{ github.sha }} > refDiffFiles.txt
```

```
 - name: Get Target Files
```

```
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
```

```
 - name: Checkout scancode
```

```
 uses: actions/checkout@v2
```

```
 with:
```

```
 repository: nexB/scancode-toolkit
```

```
 path: scancode-toolkit
```

```
 fetch-depth: 1
```

```
 - name: Set up Python ${{ matrix.python-version }}
```

```
 uses: actions/setup-python@v2
```

```
 with:
```

```
 python-version: ${{ matrix.python-version }}
```

```
 # ScanCode
```

```
 - name: Self-configure scancode
```

```
 working-directory: ./scancode-toolkit
```

```
 run: ./scancode --help
```

```
 - name: Run Scan code on target
```

```
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
```

```

toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package grafana
```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //

```

```

// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {

```

```

return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
}
}

```

```

if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"

```



```

"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
..func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.

```

```

Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

```

```

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

```

```

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 }
}

```

```

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
}
}

```

```

 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```



```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 }
}

```

```

if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
}

```

```

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

```

```

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

```

```

params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

```

```

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

```

```

req.URL = &resolvedEndpoint.URI

```

```

for k := range resolvedEndpoint.Headers {

```



```

req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 }
}

```

```

ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 }
}

```

```

 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```
 "context"
```

```
 "errors"
```

```
 "fmt"
```

```
 "github.com/aws/aws-sdk-go-v2/aws"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
```

```
 smithyendpoints "github.com/aws/smithy-go/endpoints"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks in the specified license. Check in a license when it is no longer in use.
```

```
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
```

```
(*CheckInLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &CheckInLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
```

```
 c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*CheckInLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type CheckInLicenseInput struct {
```

```
 // License consumption token.
```

```

//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{

```

```

Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,

```



```

 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
}

```

```

break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

```

```

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

```

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
}

```

```

BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4

```

```

signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .

```



```

func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

```

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {

```

```

if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
)
 }
}

```

```

 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}
}

```

```

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.

```

```

//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```



```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 }
}

```

```

 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

# 1.208 github.com/aws/aws-sdk-go-v2/config

## 1.18.39

### 1.208.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
```

```

//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```

```

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{

```



```

return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(

```

```

k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)

```

```

 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.

Copyright 2014-2015 Stripe, Inc.

name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

```
- name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.
```

package grafana

```
import (
 "context"
```

```

"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
..func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

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}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.

```

```

//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
}

```

```

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```



```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns

```

```

...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
 params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

```

```

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}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
}

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 },

```



```

 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

```

```

// License version.
Version *string

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}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

type opGetLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),

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)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 }
}

```

```

case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.

```

```

NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {

```



```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 }
}

```

```

 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)

```

```

if err != nil {
 return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}

type opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
}

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:

```



```

v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,

```

```

 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)

```

```

if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

```

```

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{

```

```
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{ }
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
```

```

}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
 return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),

```

```

middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

```



```

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {

```

```

return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package grafana
```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 }
}

```

```

if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

```



```

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

```

```

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{

```

```

Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,

```

```

resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}

```

```

break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

## 1.209 [github.com/aws/aws-sdk-go-v2/credentials](https://github.com/aws/aws-sdk-go-v2/credentials) 1.13.37

### 1.209.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
"context"
"errors"
```

```

"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

```

```

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```



```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 }
}

```

```

 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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Copyright 2014-2015 Stripe, Inc.

name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

```

 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Removes the Grafana Enterprise license from a workspace.

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
```

```

...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```



```

if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

```

```

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {

```

```

if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
)
 }
}

```

```

 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}
}

```

```

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```



```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

```

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 }
}

```

```

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
}
}

```

```

 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }
}

```



```

}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)

```

```

if err != nil {
 return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}

```

```

}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
}

```

```

}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {

```

```

case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{

```

```

 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.

```

```

LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}

```



```

}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.

```

```

// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
}

```

```

if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)

```

```

if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 }
}

```



```

}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
}

```

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## END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

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```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
```

```

// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}

```



```

}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint

```

```

resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {

```

```

 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string
}

```

```

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}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
}
}

```

```

ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```

```

type opAssociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

```

```

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

```

```

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

```

```

params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

```

```

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

```

```

req.URL = &resolvedEndpoint.URI

```

```

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),

```

```

)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 }
}

```



```

case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //

```

```

// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```
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```

```
}
```

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 }
}

```

```

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
}
}

```

```

 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
}

```

## 1.210 [github.com/aws/aws-sdk-go-v2/feature/ec2/imds](https://github.com/aws/aws-sdk-go-v2/feature/ec2/imds) 1.13.11

### 1.210.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.

```

```
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
```



```

(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.

```

```

NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}
}

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:

```

```

v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,

```

```
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan
```

on: [pull\_request]

jobs:

licensescan:

```
name: License Scan
runs-on: ubuntu-latest
strategy:
matrix:
python-version: [3.9]
```

steps:

```
- name: Checkout target
uses: actions/checkout@v2
with:
path: sdkbase
ref: ${ github.base_ref }
- name: Checkout this ref
uses: actions/checkout@v2
with:
path: new-ref
fetch-depth: 0
- name: Get Diff
run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ github.event.pull_request.base.sha }
${ github.sha } > refDiffFiles.txt
- name: Get Target Files
run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2
with:
repository: nexB/scancode-toolkit
path: scancode-toolkit
fetch-depth: 1
- name: Set up Python ${ matrix.python-version }
uses: actions/setup-python@v2
with:
python-version: ${ matrix.python-version }
ScanCode
```

```

- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package grafana
```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```



```

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 }
}

```

```

if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
}

```

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{ }
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutBorrowLicenseInput struct {
```

```
 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
```

```
 // This member is required.
 ClientToken *string
```

```
 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
```

```

// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {

```



```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

```

```

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
}

```

```

BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4

```

```

signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
if params == nil {
params = &GetLicenseInput{}
}
}

```

```

}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

type opGetLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```



```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status

```

```

Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }
}

```

```

}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {

```

```

// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"

```

```

"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

```



```

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
}

```

```

}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}

type opDeleteLicenseResolveEndpointMiddleware struct {

```

```

EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {

```

```

// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.

```

```

// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```
 "context"
```

```
 "errors"
```

```
 "fmt"
```

```
 "github.com/aws/aws-sdk-go-v2/aws"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
```

```
 smithyendpoints "github.com/aws/smithy-go/endpoints"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks in the specified license. Check in a license when it is no longer in use.
```

```
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
```

```
(*CheckInLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &CheckInLicenseInput{ }
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
```

```
 c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*CheckInLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```

}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

```



```

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

```

}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }
}

```

```

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {

```

```

 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
// Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```
}
```

```
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```

 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

```

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```



```

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 }
}

```

```

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
}
}

```

```

 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.

```

```

//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```



```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}

```

## 1.211 [github.com/aws/aws-sdk-go-v2/service/ssooidc](https://github.com/aws/aws-sdk-go-v2/service/ssooidc) 1.15.6

### 1.211.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.

```

```

Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.

```

```

// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go  
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.  
Copyright 2014-2015 Stripe, Inc.  
name: License Scan

on: [pull\_request]

jobs:



```

licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:
 matrix:
 python-version: [3.9]

 steps:
 - name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${{ github.base_ref }}
 - name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
 - name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
 ${{ github.sha }} > refDiffFiles.txt
 - name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
 - name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
 - name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
 # ScanCode
 - name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
 - name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
 - name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
 # compare
 - name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
 are the same. Success."; exit 0; fi

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string
}

```

```

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```

 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
 }
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,

```

```

 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "grafana"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
}

```

```

break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

```



```

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

```

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

```

```

}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}

return next.HandleSerialize(ctx, in)
}

```

```

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

```

```

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// License version.
Version *string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
}

```



```

return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

type opGetLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

```

```

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError

```

```

if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {

```



```

// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtinResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {

```

```

if params == nil {
 params = &DeleteLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {

```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}

type opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }
}

```

```

}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

```

```

}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

```

```

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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```

limitations under the License.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

```

```

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {

```

```

 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
}

```

```

BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4

```

```

signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it

```



```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}
}

```

```

}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListReceivedLicensesInput struct {

```

```

 // Filters to scope the results. The following filters are supported:

```

```

 // - ProductSKU

```

```

 // - Status

```

```

 // - Fingerprint

```

```

 // - IssuerName

```

```

 // - Beneficiary

```

```

 Filters []types.Filter

```

```

 // Amazon Resource Names (ARNs) of the licenses.

```

```

 LicenseArns []string

```

```

 // Maximum number of results to return in a single call.

```

```

 MaxResults *int32

```

```

 // Token for the next set of results.

```

```

 NextToken *string

```

```

 noSmithyDocumentSerde

```

```

}

```

```

type ListReceivedLicensesOutput struct {

```

```

 // Received license details.

```

```

 Licenses []types.GrantedLicense

```

```

 // Token for the next set of results.

```

```

 NextToken *string

```

```

 // Metadata pertaining to the operation's result.

```

```

 ResultMetadata middleware.Metadata

```

```

 noSmithyDocumentSerde

```

```

}

```

```

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

```

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (

```

```

out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(

```

```

 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

```

```

}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
if params == nil {
params = &AssociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {

```

```

 return nil, err
}

out := result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
}

```



```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "grafana"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

```

```
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange
```

```

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
}

```



```

return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
}

```

## 1.212 [github.com/aws/aws-sdk-go-v2/internal/endpoints/v2](https://github.com/aws/aws-sdk-go-v2/internal/endpoints/v2) 2.4.35

## 1.212.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
```

```
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{ }
 }
}
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```
 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutLicenseInput struct {
```

```
 // Checkout type.
```

```
 //
```

```
 // This member is required.
```

```
 CheckoutType types.CheckoutType
```

```
 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
```

```

//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

```

```

}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)

```



```

if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

```

 path: sdkbase
 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"

```

```

"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```

 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 }
 }
}

```

```

ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
}
}

```



```

 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,

```

```

c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.

```

```

CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 }
}

```

```

if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

```



```

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

```

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))

```

```

(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (

```



```

out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(

```

```

 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

```

```

}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
if params == nil {
params = &DeleteLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DeleteLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }
}

```

```

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {

```

```

 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}

```



}

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {

```



```

if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
)
 }
}

```

```

 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}
}

```

```

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsMiddleware.AddRecursionDetection(stack); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
}

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 },

```



```

 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.

```

```

//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {

```

```

return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
}
}

```

```

if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"

```

```

"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.

```

ConsumptionConfiguration \*types.ConsumptionConfiguration

// License entitlements.

//

// This member is required.

Entitlements []types.Entitlement

// Home Region for the license.

//

// This member is required.

HomeRegion \*string

// License issuer.

//

// This member is required.

Issuer \*types.Issuer

// License name.

//

// This member is required.

LicenseName \*string

// Product name.

//

// This member is required.

ProductName \*string

// Product SKU.

//

// This member is required.

ProductSKU \*string

// Date and time range during which the license is valid, in ISO8601-UTC format.

//

// This member is required.

Validity \*types.DatetimeRange

// Information about the license.

LicenseMetadata []types.Metadata

noSmithyDocumentSerde

}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.

LicenseArn \*string



```

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}

```

```

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

## 1.213 grpc-go 1.58.1

### 1.213.1 Available under license :

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## 1.215 docker 24.0.6+incompatible

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```
// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.3 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
```

```

// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseIdentifier string `json:"licenseId"`

// 10.2: Extracted Text
// Cardinality: conditional (mandatory, one) if there is a
// License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
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```

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Pierre Phaneuf <pphaneuf@google.com>
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```

Roger Ng <rogerng@google.com> <roger2hk@gmail.com>

Roland Shoemaker <roland@letsencrypt.org>

Ruslan Kovalov <ruslan.kovalyov@gmail.com>

Samuel Lidn Borell <samuel@kodafritt.se>

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package v2\_2

// OtherLicense is an Other License Information section of an  
// SPDX Document for version 2.2 of the spec.

```
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseIdentifier string `json:"licenseId"`
```

```
 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
```

```

// License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}

```

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Alrux Go EXTensions (AGExt) - package levenshtein

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Paul Borman <borman@google.com>

bmatsuo

shawnp

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

dansouza

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Alain Vongsouvanhalainv <alainv@google.com>

Andrew Gerrand <adg@golang.org>

Brad Fitzpatrick <bradfitz@golang.org>

Eric Koleda <ekoleda+devrel@goglers.com>

Francesc Campoy <campoy@golang.org>

Garrick Evans <garrick@google.com>

Glenn Lewis <gmlewis@google.com>

Ivan Krasin <krasin@golang.org>

Jason Hall <jasonhall@google.com>

Johan Euphrosine <proppy@google.com>

Kostik Shtoyk <kostik@google.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Matthew Dolan <dolan@lightstep.com>  
Matthew Whisenhunt <matt.whisenhunt@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>  
Nick Craig-Wood <nickcw@gmail.com>  
Robbie Trencheny <me@robbiet.us>  
Ross Light <light@google.com>  
Sarah Adams <shadams@google.com>  
Scott Van Woudenberg <scottvw@google.com>  
Takashi Matsuo <tmatsuo@google.com>  
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Anton Povarov <[anton.povarov@gmail.com](mailto:anton.povarov@gmail.com)>

Brian Goff <[cpuguy83@gmail.com](mailto:cpuguy83@gmail.com)>

Clayton Coleman <[ccoleman@redhat.com](mailto:ccoleman@redhat.com)>

Denis Smirnov <[denis.smirnov.91@gmail.com](mailto:denis.smirnov.91@gmail.com)>

DongYun Kang <[ceram1000@gmail.com](mailto:ceram1000@gmail.com)>

Dwayne Schultz <[dschultz@pivotal.io](mailto:dschultz@pivotal.io)>

Georg Apitz <[gapitz@pivotal.io](mailto:gapitz@pivotal.io)>

Gustav Paul <[gustav.paul@gmail.com](mailto:gustav.paul@gmail.com)>

Johan Brandhorst <[johan.brandhorst@gmail.com](mailto:johan.brandhorst@gmail.com)>

John Shahid <[jvshahid@gmail.com](mailto:jvshahid@gmail.com)>

John Tuley <[john@tuley.org](mailto:john@tuley.org)>

Laurent <[laurent@adyoulike.com](mailto:laurent@adyoulike.com)>

Patrick Lee <[patrick@dropbox.com](mailto:patrick@dropbox.com)>

Peter Edge <[peter.edge@gmail.com](mailto:peter.edge@gmail.com)>

Roger Johansson <[rogersaling@gmail.com](mailto:rogersaling@gmail.com)>

Sam Nguyen <[sam.nguyen@sendgrid.com](mailto:sam.nguyen@sendgrid.com)>

Sergio Arbo <[serabe@gmail.com](mailto:serabe@gmail.com)>

Stephen J Day <[stephen.day@docker.com](mailto:stephen.day@docker.com)>

Tamir Duberstein <[tamird@gmail.com](mailto:tamird@gmail.com)>

Todd Eisenberger <[teisenberger@dropbox.com](mailto:teisenberger@dropbox.com)>

Tormod Erevik Lea <[tormodlea@gmail.com](mailto:tormodlea@gmail.com)>

Vyacheslav Kim <[kane@sendgrid.com](mailto:kane@sendgrid.com)>

Walter Schulze <[awalterschulze@gmail.com](mailto:awalterschulze@gmail.com)>

Alex A. Skinner

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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# 1.216 zap 1.26.0

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# 1.217 go-toml 2.1.0

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go-toml v2

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# 1.218 grpc-gateway 2.18.0

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## 1.219 kubernetes-apimachinery 0.28.2

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# 1.220 kubernetes-client 0.28.2

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# 1.221 genproto-googleapis-api 0.0.0-20230913181813-007df8e322eb

## 1.221.1 Available under license :

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## 1.222 [github.com/aws/aws-sdk-go-v2/service/ecs](https://github.com/aws/aws-sdk-go-v2/service/ecs) 1.30.1

## 1.222.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
```

```
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{ }
 }
}
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```
 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutLicenseInput struct {
```

```
 // Checkout type.
```

```
 //
```

```
 // This member is required.
```

```
 CheckoutType types.CheckoutType
```

```
 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
```

```

//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

```



```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

```

```

}

type opCheckoutLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)

```

```

if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtinResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

```

 path: sdkbase
 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

```

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"

```

```

"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```



```

 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "grafana"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 }
 }
}

```

```

ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
}

```

```

 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,

```

```

c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.

```

```

CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

```



```

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 }
}

```

```

if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

```

```

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

```

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))

```



```

(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

```

```

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (

```

```

out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(

```

```

 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

```

```

}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
if params == nil {
params = &DeleteLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DeleteLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```



```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addEndpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }
}

```

```

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {

```

```

 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

}

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```



```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {

```

```

if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
)
 }
}

```

```

 internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
 ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
 break
 case *internalauth.AuthenticationSchemeNone:
 break
 }
}
}

```

```

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsMiddleware.AddRecursionDetection(stack); err != nil {
 return err
}

```



```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
}

```

```

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
 signingName = "license-manager"
} else {
 signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
 signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.

```

```

//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(¶ms)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {

```

```

return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
}
}

```



```

if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"

```

```

"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.

```

ConsumptionConfiguration \*types.ConsumptionConfiguration

// License entitlements.

//

// This member is required.

Entitlements []types.Entitlement

// Home Region for the license.

//

// This member is required.

HomeRegion \*string

// License issuer.

//

// This member is required.

Issuer \*types.Issuer

// License name.

//

// This member is required.

LicenseName \*string

// Product name.

//

// This member is required.

ProductName \*string

// Product SKU.

//

// This member is required.

ProductSKU \*string

// Date and time range during which the license is valid, in ISO8601-UTC format.

//

// This member is required.

Validity \*types.DatetimeRange

// Information about the license.

LicenseMetadata []types.Metadata

noSmithyDocumentSerde

}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.

LicenseArn \*string

```

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addLegacyEndpointContextSetter(stack, options); err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}

```

```

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
 return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
 return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(¶ms)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
 req.Header.Set(
 k,
 resolvedEndpoint.Headers.Get(k),
)
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
 // if no auth scheme is found, default to sigv4
 signingName := "license-manager"
 signingRegion := m.BuiltInResolver.(*builtInResolver).Region
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
 "This operation requests signer version(s) %v but the client only supports %v",
 ue.UnsupportedSchemes,
 internalauth.SupportedSchemes,
)
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
 v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
 var signingName, signingRegion string
 if v4Scheme.SigningName == nil {
 signingName = "license-manager"
 } else {
 signingName = *v4Scheme.SigningName
 }
 if v4Scheme.SigningRegion == nil {
 signingRegion = m.BuiltInResolver.(*builtInResolver).Region
 } else {
 signingRegion = *v4Scheme.SigningRegion
 }
 if v4Scheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
 }
 ctx = awsmiddleware.SetSigningName(ctx, signingName)
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
 break
 case *internalauth.AuthenticationSchemeV4A:
 v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
 if v4aScheme.SigningName == nil {
 v4aScheme.SigningName = aws.String("license-manager")
 }
 }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
 // The signer sets an equivalent value at client initialization time.
 // Setting this context value will cause the signer to extract it
 // and override the value set at client initialization time.
 ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
 break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
 EndpointResolver: options.EndpointResolverV2,
 BuiltInResolver: &builtInResolver{
 Region: options.Region,
 UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
 UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
 Endpoint: options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}

```

## 1.223 kubernetes-api 0.28.2

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## 1.224 aws-sdk-go 1.45.11

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## 1.226 go-ole-go-ole 1.3.0

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