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## Cisco Network Assurance Engine Release Notes, Release 5.1(1)

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## Introduction

This document describes the features, caveats, and limitations for the Cisco Network Assurance Engine (NAE).

Release notes are sometimes updated with new information about restrictions and caveats.

See Related Content for information regarding additional product documentation.



The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Date	Description
January 20, 2022	Release 5.1(1c) patch became available.
May 21, 2021	Added CSCvx61734 to Open Issues.
April 27, 2021	Release 5.1(1b) patch for Cisco NAE app and appliance became available.
December 22, 2020	Release 5.1(1a) for Cisco NAE app became available.
November 13, 2020	Release 5.1(1) for Cisco NAE appliance became available.

### **New Software Features**

Feature	Description
Cisco NAE app support on Cisco Nexus Dashboard	Cisco NAE app can be deployed as a service on Cisco Nexus Dashboard.
MSO Assurance Group support	An MSO Assurance Group is supported by Cisco NAE. Cisco NAE queries the sites that Cisco MSO manages and controls the configurations.
NX-OS Fabric Assurance enhancements	<ul> <li>For NX-OS fabric assurance, Layer 2 VNI and Layer 3 VNI are added as resources.</li> <li>Resource aggregations are supported for VLAN and VRF resources for</li> </ul>
	<ul><li>What query results.</li><li>BETA feature: The Policy Delta feature for DCNM Assurance Group analyzes the changed nodes or switches across two epochs and obtains a co-related view of what has changed in the NX-OS switches.</li></ul>
Policy-Based Redirect Service Graph Assurance	Service Graphs are assured when certain specified conditions are met.
Multi-Tier fabric topology support for ACI	Starting from Cisco NAE release 5.1(1), multi-tier fabric topology for ACI is supported.
Pre-Change Analysis enhancements	Additional Fabric Access Policy filters are now available for pre-change analysis jobs.
BD to EPG Relationship Configuration Compliance	You can create a BD configuration compliance rule to set the maximum number of EPGs with which the BD can be associated.
Smart Event details using a URL	You can view Smart Event details using a URL.
Naming Rules Compliance for Additional Object Selector Types	Contract, Filter, and Subject selectors are additional Object Selector types that are compliant with Naming rules.
Configuration Compliance Containment Equality Check	For Configuration Compliance Containment Check, the <b>Allow addition of</b> <b>new configuration objects</b> field enables you to choose whether to raise a violation event for a new object that is added or deleted in Cisco APIC.
Customized Next Step	When creating a new Event Rule, a <b>Customize Next Step Message</b> field is available to enter the suggested next steps for a user.

Feature	Description
Cisco APIC 5.1 support	Cisco APIC Release 5.1 is supported by Cisco NAE Release 5.1(1).
New Smart Events	<ul> <li>The following smart events are introduced in this release:</li> <li>MSO Fabric Events</li> <li>Policy-Based Redirect Assurance Events</li> <li>NX-OS EVPN and Endpoint Events</li> </ul>
New API commands	<ul><li>The following API commands are added:</li><li>Read the life cycle state of a Smart Event.</li><li>Manage fabrics of type NX-OS and MSO in addition to ACI.</li></ul>

## **Open Issues**

Click the bug ID to access the Bug Search tool and see additional information about the bug. The "Exists In" column of the table specifies the releases in which the bug exists. A bug might also exist in other releases.

Bug ID	Description	Exists in
CSCvu21980	Cisco NAE does not detect overlapping external subnet with BD subnet.	5.1(1)
CSCvu67993	In some cases, the smart event VPC_DOMAIN_INCONSISTENT displays configuration status as <b>Invalid</b> . Check the smart event VPC_PARAMETERS_INCONSISTENT for more information.	5.1(1)
CSCvu60329	Using the API allow_unsupported_object_modification is true for a PCA job, may result in false positive or negative smart events.	5.1(1)
CSCvu81037	Cisco NAE raises the incorrect warning level smart events on port channels (PC) and virtual port channels (vPC) that are used for L3Out under certain conditions.	5.1(1)
CSCvu32911	When there is a vPC type-2 mismatch in Interface-VLAN routing and Output Queuing parameters, Cisco NAE does not generate VPC_DOMAIN_INCONSISTENT smart event.	5.1(1)
CSCvu77756	When there is a mismatch in vPC Output-Queuing type-2 parameter, Cisco NAE does not generate VPC_PARAMETERS_INCONSISTENT smart event.	5.1(1)
CSCvv11505	When you perform a search by pasting the value in the search field, the value is pasted twice.	5.1(1)
CSCvv11593	Smart event INRA_PARTIAL_FAILURE for endpoint is generated intermittently due to certain query failure.	5.1(1)
CSCvw16617	After the compliance requirement configuration is imported, the download button does not work.	5.1(1)
CSCvw18650	In some cases, the Explorer incorrectly displays that 2 EPGs can not talk in the reverse direction when they can talk.	5.1(1)
CSCvw30230	Collection time on NX-OS fabrics will take longer on Cisco NAE app on Cisco Nexus Dashboard as compared to the Cisco NAE appliance (OVA).	5.1(1)
CSCvw28319	Security Flow table for inter tenant configurations across sites may display incorrect entries.	5.1(1)

Release notes are sometimes updated with new information about restrictions and caveats.

Bug ID	Description	Exists in
CSCvv73587	False positives are generated for smart event CONNECTED_EP_LEARNING_ERROR with endpoint learning across sites.	5.1(1)
CSCvw64163	Cisco NAE app uninstall operation is stuck and does not proceed if the Cisco Nexus Dashboard cluster has a ND node down.	5.1(1)
CSCvx79646	Unable to start Directed Acyclic Graph (DAG) after you upgrade from Cisco NAE app release 5.1(1a) to Cisco NAE app release 5.1(1b).	5.1(1)
CSCvx61734	UNSUPPORTED_SOFTWARE_VERSION_ON_DCNM event is generated on epoch runs though it is supported.	5.1(1)

### **Resolved Issues**

Click the bug ID to access the Bug Search Tool and see additional information about the bug. The "Fixed In" column of the table specifies whether the bug was resolved in the base release or a patch release. Click the bug ID to access the Bug Search tool and see additional information about the bug.

Bug ID	Description	Fixed In
CSCvv08622	If you apply the severity filter on the search field and access the Event page from the prefix table, the event table does not display any results.	5.1(1)
CSCvv09871	Performing a search for subnet or route in Global Search or Event Suppression page does not display the results in the events table. The results are displayed in the prefix table.	5.1(1)
CSCvv08248	Download option for PCA jobs with tenant configuration size exceeding 8KB is disabled.	5.1(1)
CSCvx29695	Creating a compliance requirement when you import Cisco APIC 5.1.2e configuration results in an error.	5.1(1b)
CSCwa47285	Evaluation of Cisco NAE for Log4j RCE (Log4Shell) vulnerability.	5.1(1c)

### **Known Issues**

Click the Bug ID to access the Bug Search Tool and see additional information about the bug. The "Exists In" column of the table specifies the releases in which the known behavior exists. A bug might also exist in releases.

Bug ID	Description	Exists In
CSCvi51374	For scale configurations, a few API queries (notably the prefix, Policy CAM, or endpoint table) can result in an HTTP error code 500 due to a high load on the DB/backend.	5.1(1) and later
CSCvk36185	Renaming or replacing a filter entry does not show change in epoch health delta.	5.1(1) and later
CSCvo42680	LOG_PERMIT_POLICY_ENFORCED smart event is generated for the actrlRule that has threshold, redir action.	5.1(1) and later
CSCvq70757	For an object with the same key for either <b>Event Table</b> , <b>Endpoint Table</b> or <b>Prefix Table</b> , the search display may show multiple rows depending on the time range.	5.1(1) and later
CSCvv73587	<b>CONNECTED_EP_LEARNING_ERROR</b> smart event is displayed for end points that belong to different site in MSO use case.	5.1(1) and later

#### **Important Notes**

Epochs from MSO fabrics cannot be imported or exported. MSO epochs are included in the total epochs count from the Historical Time Range area in the Schedule Import/Export Historical Data screen, but Cisco NAE will not export the MSO epoch. If inline exports are enabled, it will not apply to epochs generated from an MSO assurance group. As an example, if there are 2 ACI fabrics and 1 MSO fabric, then 6 ACI epochs would be exported, and 3 MSO epochs are expected to fail to export. The historical export job as a whole will be displayed as a failure in the Export History area. The user can obtain more information about why the job was marked as a failure by clicking Action > Download Failed Epoch Log. A line similar to the following will be displayed for each MSO epoch in that time range:

2020-10-31 02:05:12.048' ERROR Failed to export epoch 2c0fc24b-2060b3fd-ad31-3274-8785-90caa15803b6 from fabric 2c0fc24b-02cf179e-0761-43ce-a4f8-59793e6b3d33 collected at 1604109696000: Epochs from MSO fabrics cannot be imported or exported.`

- In case of multiple APICs (sites) managed by MSO, Cisco NAE may falsely report CONNECTED\_EP\_LEARNING\_ERROR or FABRIC\_EP\_LEARNING\_ERROR in APIC epochs for endpoints that belong to different APIC (site). These events can be suppressed using event suppression rules.
- Under heavy, highly parallelized search query workloads, global search may require the installation of the next higher NAE model for additional memory. For example, a 40 leaf node fabric that can normally be analyzed with NAE-V500-S might require installation of NAE-V1000-M to support heavy, highly parallelized global search usage.

## **Software Compatibility Information**

The following tables list the compatibility information for the Cisco NAE.

### **Cisco ACI Fabric Compatibility Information**



Release versions of the Cisco APIC and the Cisco NX-OS software that are not listed in the table below are not supported.

Table 1. Cisco ACI Fabric Compatibility Information

Cisco APIC Release	Cisco ACI-Mode NX-OS Switch Software Release for Cisco Nexus 9000 Series ACI-Mode Switches
5.1	15.1
5.0	15.0
4.2	14.2
4.1	14.1
4.0	14.0
3.2	13.2
3.1	13.1
3.0	13.0
2.3	12.3
2.2	12.2
2.1	12.1
2.0	12.0
1.3	11.3
1.2	11.2

#### **Supported Load Balancers**

The following table lists the supported load balancers for the Cisco NAE. (Currently, this is supported for ACI Assurance Group only.)

Table 2. Supported Load Balancers

Load Balancer Name	Release
F5 BIG-IP LTM	12.1.3
F5 BIG-IP LTM	14.1.0

### **Cisco NAE support for MSO Compatibility Information**

Cisco NAE support for MSO Compatibility Information

Cisco NAE release 5.1.1 supports MSO release 3.x.

For details about MSO and ACI support, see **Multi-Site Orchestrator and Cisco APIC Interoperability Support** in *Cisco ACI Multi-Site Orchestrator Installation and Upgrade Guide*, *Release 3.x.* 

### **Cisco NX-OS Fabric Compatibility Information with DCNM Assurance Group**

Table 3. Cisco NX-OS Fabric Compatibility Information with DCNM Assurance Group

Cisco DCNM Release	Cisco Nexus 9000 Series NX-OS	Switch Support	Topology and Deployme nt
<ul><li>11.4(1)</li><li>11.3(1)</li></ul>	<ul><li>9.3(5)</li><li>9.3(3)</li></ul>	The 9300-EX, -FX, -FX2, and -GX platform switches and the 9500 platform switches with -EX and -FX line cards are supported.	BGP eVPN VXLAN topology and deploymen ts are supported

## Hardware Compatibility Information

The Cisco APIC hardware compatibility information for Cisco NAE can be accessed at the following website:

https://www.cisco.com/c/en/us/support/switches/nexus-9000-series-switches/products-release-notes-list.html

## **Verified Scalability Limits for ACI Fabric**

The following table lists the maximum verified scalability limits for the Cisco NAE .

Feature	Scale Limit for Appliance Model: Small	Scale Limit for Appliance Model: Medium	Scale Limit for Appliance Model: Large
APIC Fabric Size	50 leaf switches	100 leaf switches	400 leaf switches
Number of VMs	3	3	3
Policy CAM Rules	200 K	400 K	400 K
Endpoints	50 K	100 K	100 K
Number of Prefix Matches	25 K	50 K	50 K
Total number of smart events, endpoints, and prefixes	300 K	500 K	600 K
Number of Concurrent Assurance Analysis	1	1	1
Analysis Interval in ACI Network Mode	15 minutes or more	15 minutes or more	30 minutes or more
Analysis Interval in ACI Application Mode	25 minutes or more	15 minutes or more	Not Supported

Table 4. Verified Scalability Limits

Table 5. Verified Scalability Limits for Compliance

Compliance Checks	Scale Limit
Total number of Requirement Sets that can be active at a given time	3
Number of Requirements per Requirement Set	<ul> <li>200</li> <li>Requirements of type Compliance Requirement and Naming Convention</li> <li>10</li> <li>Requirements of type Segmentation, Traffic Selector, and SLA</li> </ul>

EPG pair limit check per Requirement (includes both directions)	1000
	The scale limit is applicable if the compliance requirement flag <b>enable_aggregate_event_for_tenant</b> is set to false using Cisco NAE REST APIs.
	500
	The scale limit is applicable for the violated EPG pairs if the compliance requirement flag <b>enable_aggregate_event_for_tenant</b> is set to true using Cisco NAE REST APIs.
	NOTE: In the latter case, only 50 tenants are supported, and the option to enable the aggregate info events will be present only for Segmentation requirements using a tenant object selector. If the option is enabled, there will no longer be any info events for EPG pairs, and only EPG pair-based violation events will be generated.
Fabric wide rules	150 K

Table 6. Verified Scalability Limits for Explorer

Feature	Scale Limit
Total number of associations we can explore	500 K
Fabric wide rules	150 K

### **Verified Scalability Limits for NX-OS Fabric**

The following tables lists the maximum verified scalability limits.

Table 7 Verified Scalability Limits	for Cisco NAE with Cisco NX-OS Fabric
Tuble 7. Verified Scalability Linus	101 CISCO IVAL WITH CISCO IVA-051 UDI IC

Feature	Cisco NX-OS Fabric Scale Limits
System Routing Template	Default
VXLAN VTEPs	38
VXLAN Layer 2 VNIs	2,000
VXLAN Layer 3 VNIs/VRFs	900
VXLAN Multicast Groups	100
VXLAN Overlay MAC Addresses	64,000
VXLAN Overlay IPv4 Host Routes	60,000
VXLAN Overlay IPv6 Host Routes	16,000
VXLAN Overlay IGMP Snooping Groups	800
VXLAN IPv4 LPM Routes	2,264
VXLAN IPv6 LPM Routes	2,256
VLANs on VTEP Node	2,900 (Total VLANs)
STP Logical Ports	2,900
VPC Port Channels	32
Underlay IS-IS Neighbors	11
Underlay PIM Neighbors	9 (Spine switches), 3 (Leaf switches)

Table 8. Verified Scalability Limits for OVA Deployment

Feature	Scale Limit for Appliance Model: Small	Scale Limit for Appliance Model: Medium
Cisco NX-OS Fabric Size	40 leaf switches	100 leaf switches
Number of VMs	3	3
Number of Prefix Matches (LPM routes)	4,500	4,500
IPV4/IPv6 Host	See the scales in <b>Verified</b> Scalability Limits for Cisco NAE with Cisco NX-OS.	See the scales in <b>Verified</b> Scalability Limits for Cisco NAE with Cisco NX-OS.
Layer 2 MAC Addresses	See table ABOVE	See table ABOVE
Total Number of Smart Events, Endpoints, and Prefixes	16,000	16,000

Feature	Scale Limit for Appliance Model: Small	Scale Limit for Appliance Model: Medium
Number of Concurrent Assurance Analysis	1 concurrent and 4 scheduler serial	1 concurrent and 4 scheduler serial
Analysis Interval	15 minutes or more	15 minutes or more

Table 9. Verified Scalability Limits for Explorer

Feature	Scale Limit
Total number of associations that can be explored	500,000

## **Licensing Information**

For a more detailed overview on Cisco Licensing, go to cisco.com/go/licensingguide.

See the Cisco Nexus Dashboard and Cisco Data Center Day 2 Operations Solution Suite Ordering Guide for more information.

See the *Cisco Network Assurance Engine Installation and Upgrade Guide* for information regarding Smart Licensing.

### **End-of-Life and End-of-Sale Notices**

The End-of-Life (EoL) and End-of-Sale (EoS) notices for Cisco NAE can be accessed from the following website:

https://www.cisco.com/c/en/us/products/data-center-analytics/network-assurance-engine/bulletin-listing.html

## **Cisco NAE App Compatibility Information**

### **Software Compatibility Information**

Table 10. Compatiblity Information

Product Name	Release
Cisco Nexus Dashboard	• 2.0.2
	• 2.0.1
Cisco DCNM	• 11.4(1)
	• 11.3(1)
Cisco APIC	• 5.1(2)
	• 5.1(1)
	• 5.0(2)
	• 5.0(1)
	• 4.2(7)
	• 4.2(6)
	• 4.2(5)
	• 4.2(4)
	• 4.2(3)
	• 3.2(9)

See the Compatibility Matrix for more information.

## Verified Scalability

The following table lists the maximum verified scalability limits for the Cisco NAE app.

Table 11. Verified Scalability Limits

Feature	Scale Limit for Deployment Profile: Small	Scale Limit for Deployment Profile: Medium	Scale Limit for Deployment Profile: Large
APIC Fabric Size	50 leaf switches	100 leaf switches	400 leaf switches
DCNM Fabric Size	50 leaf switches	100 leaf switches	400 leaf switches
MSO Size	Up to 4 ACI fabrics	Up to 4 ACI fabrics	Up to 4 ACI fabrics

See the Cisco Nexus Dashboard Cluster Sizing for more information.

# **Usage Guidelines**

This section lists usage guidelines for the Cisco NAE.

- The Cisco NAE appliance leverages email as the mechanism for password recovery. We strongly recommended that you configure the SMTP server information, as that is required by the admin for password recovery. You can configure SMTP server information during Day 0 setup or after you setup the Cisco NAE appliance. To configure SMTP server after Day 0, perform the following steps:
  - 1. Choose Settings > Appliance Administration.
  - 2. Click the details icon on the **Appliance Settings** card.
  - 3. Enter the SMTP server information.
- Admin can use the following two methods to change the user's password.
  - In the **Change Password** form, enter the user's current password and then enter the new password.
  - Use the **Forgot Password** link. The SMTP server must be configured in order to reset the password using the forgot password link.
- Ensure that the last octet of the IP address is unique for each VM in the cluster. In the Cisco NAE appliance, hostname is created using last octet of VM's IP address. If the VMs in the Cisco NAE cluster are assigned the same last octet, they will get the same hostname which will lead to issues while forming the cluster.
- We recommend that you upload only one file at a time per VM in the cluster. Uploading multiple files at the same time can lead to the appliance being unresponsive. this recommendation applies to offline datasets and the upload bundle.
- Appliance settings must be configured on only one VM in the Cisco NAE cluster. Do not configure the appliance settings on more than one VM simultaneously.
- The data collected by the Cisco NAE appliance from an unsupported version of APIC or switch, may result in generation of false positives. Assurance events will also be generated. See Compatibility Information .

# **Related Content**

The Cisco NAE documentation can be accessed from the following website:

https://www.cisco.com/c/en/us/support/data-center-analytics/intent-assurance/tsd-products-support-series-home.html

Document	Description
Cisco Network Assurance Engine Release Notes	This document.
Cisco Network Assurance Engine Installation and Upgrade Guide	Describes how to install and upgrade the Cisco NAE.
Cisco Network Assurance Engine Getting Started Guide	Describes how to configure and manage the Cisco NAE.
Cisco Network Assurance Engine Fundamentals Guide	Describes some of the use cases for the Cisco NAE.
Cisco Network Assurance Engine Smart Events Reference Guide	Describes the smart events found in the Cisco NAE.
Cisco Network Assurance Engine REST API User Guide	Describes the REST APIs found in the Cisco NAE.

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