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# Enterprise Chat and Email Chat and Callback Javascript SDK Developer's Guide, Release 12.6

For Unified Contact Center Enterprise and Packaged Contact Center Enterprise

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## **Preface**

- About This Guide
- Change History
- Related Documents
- ▶ Communications, Services, and Additional Information
- ► Field Alerts and Field Notices
- Documentation Feedback
- Document Conventions

Welcome to the Enterprise Chat and Email (ECE) feature, which provides multichannel interaction software used by businesses all over the world as a core component to the Unified Contact Center Enterprise product line. ECE offers a unified suite of the industry's best applications for chat and email interaction management to enable a blended agent for handling of web chat, email and voice interactions.

#### **About This Guide**

Enterprise Chat and Email Chat and Callback Javascript SDK Developer's Guide provides development resources capable of leveraging the JavaScript Library to build custom chat and callback user experiences leveraging the power of the ECE platform.

## **Change History**

This table lists changes made to this guide. Most recent changes appear at the top.

Change	See
Added a note about the maximum limit for SendMessageToAgent API	"Text Chat" on page 23

#### **Related Documents**

The latest versions of all Cisco documentation can be found online at https://www.cisco.com

Subject	Link
Complete documentation for Enterprise Chat and Email, for both Cisco Unified Contact Center Enterprise (UCCE) and Cisco Packaged Contact Center Enterprise (PCCE)	https://www.cisco.com/c/en/us/support/customer-collaboration/cisco-enterprise-chat-email/tsd-products-support-series-home.html

## Communications, Services, and Additional Information

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#### **Documentation Feedback**

To provide comments about this document, send an email message to the following address: contactcenterproducts\_docfeedback@cisco.com

We appreciate your comments.

#### **Document Conventions**

This guide uses the following typographical conventions.

Convention	Indicates	
Italic	Emphasis. Or the title of a published document.	
Bold	Labels of items on the user interface, such as buttons, boxes, and lists.  Or text that must be typed by the user.	
Monospace	The name of a file or folder, a database table column or value, or a command.	
Variable	User-specific text; varies from one user or installation to another.	

Document conventions

# Library Basics

- ▶ Key Concepts
- ▶ Getting Started
- ▶ Library References

### **Key Concepts**

The JavaScript Library is designed with a core set of objects that developers interact with. The library primarily has the following modules:

- Chat
- Callback

These modules serve as interfaces for Chat functionality and Callback functionality respectively.

When getting started with the modules of the JavaScript library, it is important to understand some basic key concepts associated with the user experience:

- Managing multiple languages should be considered while designing the user experience.
- ▶ CORS is required to be enabled on the ECE server when deploying the user experience outside of the application infrastructure. For more details see "Enabling CORS on ECE Server" on page 50.
- The following interfaces are typically used during a user's chat experience:
  - Pre-Chat Form: Used to collect information from the user that helps provide context when the chat is routed to an agent.
  - Interaction UI: This is the core UI where the customer types messages to send to the agent and receive messages sent by the agent.
  - Post-Chat Form: This is a page displayed after the chat has been completed. This is ideal for collecting feedback or presenting surveys.
- The following interfaces are typically used during a user's callback experience.
  - **Pre-Callback Form:** Used to collect information from the user that helps provide context when the callback is routed to an agent.
  - Post-Callback Form: This is a page displayed after the callback has been completed. This page displays the status messages such as "Callback successful," "Callback unsuccessful," etc.

## **Getting Started**

To begin working with the JavaScript SDK, it is recommended to start with the working examples provided with this SDK. They are distributed as a quick start. The library itself is located in the Examples/libs/egain folder contained within the distribution.

Once extracted locate the web folder inside the location where the files were extracted to. This folder contains the source code for all of the samples provided.

Folder Name	Contains	
The libraries used throughout the examples, which includes:  jQuery jQuery Mobile Chat JavaScript Callback JavaScript		
	Both minified and development versions of the Chat JavaScript Library have been included.	
samples	Various examples demonstrated in an HTML page with a corresponding JavaScript source file containing the code.	
samples/simple-anonymous-chat Examples with the easiest of scenarios where a simple anonymous chat is desired with specific customer information.		
samples/with-input- parameters  An example where chat is initiated with customer information passed at the time of sta		
samples/ chat-attachments	An example demonstrating sample code for sending and receiving attachments in chat.	

## **Library References**

### Library Objects

For more information about library objects, see "Library Objects" on page 15.

- eGainLibrarySettings
- eGainLibrary
- Chat
- Callback
- CustomerObject
- CustomerParameter
- EventHandlers
- ResultObject
- CustomerParameter

#### Methods

## **Library Methods**

These are the methods of the eGainLibrary objects:

- AddConnectionParameter
- SetCustomer
- SetSamlResponse
- SetEscalationData
- SetXEgainSession
- **▶** SetVisitorHistoryInformation
- ▶ GetQueueCurrentStatus

#### **Chat Methods**

These are the methods of the Chat objects:

- Initialize
- Start
- ▶ GetEventHandlers
- AcceptAuthRequest
- DeclineAuthRequest
- SendMessageToAgent
- SendSystemMessage
- SendCustomerStartTypingStatus
- ▶ SendCustomerStopTypingStatus
- Enc
- ▶ Attach
- ▶ UploadAttachment
- ▶ GetAttachment
- ▶ GetArticleAttachment
- ▶ GetAttachmentImage
- SendCustomerAttachmentNotification
- SendAcceptChatAttachmentNotification
- ▶ SendRejectChatAttachmentNotification
- GetTranscript
- SendMaskedMessageToAgent

SendBeaconToEndChat

#### **Callback Methods**

These are the methods of Callback objects:

- Initialize
- Start
- GetEventHandlers

#### **EventHandlers**

#### **Chat EventHandlers**

- OnConnectionInitialized
- OnConnectSuccess
- OnConnectionComplete
- OnConnectionFailure
- OnAcceptAuthRequest
- OnDeclineAuthRequest
- **OnConnectionAttached**
- OnConnectionAttachedFailure
- ▶ OnDuplicateSession
- OnAgentsNotAvailable
- OnSystemMessageReceived
- OnGetQueueCurrentStatus
- OnMessagePropertyLoad
- OnErrorOccurred
- OnAgentMessageReceived
- OnAgentJoined
- OnChatTransfer
- OnAgentStartTyping
- OnAgentStopTyping
- OnTranscriptFetched
- OnCobrowseInviteReceived
- OnCustomerAttachmentNotificationSent

- OnGetAttachment
- OnAttachmentAcceptedByCustomer
- On Attachment Uploaded By Customer
- OnAttachmentRejectedByCustomer
- OnAttachmentAcceptedByAgent
- OnAttachmentRejectedByAgent
- OnAttachmentInviteReceived
- OnGetAttachmentImageThumbnail
- OnCustomerBlocked

#### **Callback EventHandlers**

- OnCallbackInitialized
- OnCallbackMessagePropertyLoad
- OnCallbackConnectionFailure
- ▶ OnDuplicateSession
- ▶ OnCallBackCompletion
- OnSystemMessageReceived
- OnAgentsNotAvailable
- OnCallbackConnectSuccess
- OnCallbackSucceeded

# Library Objects

- eGainLibrarySettings
- ▶ eGainLibrary
- ► Chat (egainChatLibrary.Chat)
- ► Callback (egainChatLibrary.Callback)
- CustomerObject (egainChatLibrary.Datatype.CustomerObject)

## eGainLibrarySettings

Initializing the eGainLibrarySettings object is the first step to use the chat library. The eGainLibrarySettings object is used to set specific configurations to be used by the JavaScript Library.

## eGainLibrarySettings Properties

Property Name	Туре	Description
IsDevelopmentModeOn	Boolean	This property sets an increased timeout for the chat to ensure empty sessions are less likely to occur during development. It is expected that, during development, breakpoints may hold up the execution, so enabling this mode assists with the development activities.
CORSHost	String	If chat UI built using the SDK is not from an ECE install, CORSHost is the identifier for the ECE server. It should have the ECE URL up till the context path.
ChatPauseInSec	Integer	Time in seconds to specify for how long chat needs to be paused. This would be used when pausing the connection. This time should be less than the MAX PAUSE TIME set in server.
eGainContextPath	String	Signifies context path where ECE templates are deployed. This is the path from which I10 properties files (namely messaging_en_US.properties, etc) required for the library will be referenced.
lsDebugOn	Boolean	Defines whether or not debugging is on for chat. This can be used to record Strophe requests sent to server. Strophe is the underlying Javascript XMPP library used by the chat functionality of ECE.

### eGainLibrarySettings Methods

There are no methods to be called on the eGainLibrarySettings object.

#### **Sample Code**

```
var librarySettings = new eGainLibrarySettings();
librarySettings.CORSHost = Context root of my egain server;
librarySettings.IsDevelopmentModeOn = false;
librarySettings.eGainContextPath = "";
librarySettings.ChatPauseInSec = "30";
ibrarySettings.IsDebugOn = false;
```

### **eGainLibrary**

The eGainLibrary object is the primary object used to interact with chat and callback. It holds the Chat and Callback objects. In addition, it contains methods and properties which are common to both chat and callback.

#### eGainLibrary Properties

The eGainLibrary itself does not contain any properties that need to be set.

#### eGainLibrary Methods

Core methods required for Chat and Callback are invoked from the respective objects. eGainLibrary has some additional methods primarily required for chat like setting customer details, setting visitor history information etc. For details on eGainLibrary methods, see "Library Methods" on page 21.

Sample Code:

```
var egainChatLibrary = new eGainLibrary(librarySettings());
```

### Chat (egainChatLibrary.Chat)

The Chat object is the interface for chat functionality: sending and receiving text messages.

### **Chat Properties**

The Chat object itself does not contain any properties that need to be set. It has an initialize method, which takes the parameters of the properties that need to be set for starting a chat.

#### **Chat Methods**

The Chat object has a host of methods related to:

- Initializing and starting chats
- Sending and receiving messages
- Connecting to an existing chat
- Exchanging files during chat

For more details about chat methods, see "Library Methods" on page 21.

#### **Sample Code**

```
var egainChat = new egainChatLibrary.Chat();
var chatEventHandlers = egainChat.GetEventHandlers();
```

## Callback (egainChatLibrary.Callback)

The Callback object is the interface for callback functionality.

### **Callback Properties**

The Callback object doesn't contain any properties that need to be set. It has an initialize method, which takes the parameters of the properties that need to be set for initiating a callback.

#### Callback Methods

The Callback object primarily has two related methods: initializing callback and starting a callback session.

For more details about callback methods, see "Library Methods" on page 21.

#### Sample Code

```
var egainCallback = new egainChatLibrary.Callback();
var eventHandlers = egainCallback.GetEventHandlers();
egainCallback.Initialize(<Entry Point ID>, <Language>, <Country>,
eventHandlers);
```

## **CustomerObject** (egainChatLibrary.Datatype.CustomerObject)

CustomerObject is used to populate specific attributes of the customer who is initiating the chat. The following are a list of the methods and properties associated with the CustomerObject.

#### CustomerObject Properties

Property Name	Туре	Description
Locale	Object	Locale Object containing the language code and country code.
PrimaryKey	Object	Object containing name,value pair. Name can be either "Email" or "Phone"
CustomerParameters	Array	Array of customer parameters. Details of customer parameters are under CustomerParameter.

## CustomerObject Methods

Property Name	Description	
AddCustomerParameter	Method used to add details regarding the customer. This can include things like the customer's first name, last name, or other details that are relevant. These values then get mapped to the business objects.	
SetPrimaryKey	Used to set whether the email address or phone number will be used to identify the customer.	

#### **Sample Code**

```
var customer = new egainChatLibrary.Datatype.CustomerObject();
customer.Locale.Language = 'en'
customer.Locale.Country = 'US'
```

## ResultObject

Returns a status whether or not the event was successful.

#### **ResultObject Properties**

Property Name	Туре	Description
StatusCode	String	String indicating status code of chat event. This code can be used for identifying the event.
StatusMessage	String	String indicating detailed status message of chat event.
IsSuccess	Boolean	String indicating status success or failure of chat event.

#### **ResultObject Methods**

There are no methods to be called on the ResultObject object.

### CustomerParameter

The CustomerParameter object is used to create contextual parameters for the CustomerObject. That object is then passed into the Chat constructor.

## **CustomerParameter Properties**

Property Name	Туре	Description
eGainParentObject	String	Represents the Business Object within the ECE application that will be used to map the value to. An example of a ParentObject value would be "casemgmt"
eGainChildObject	String	Represents the Child Business Object within the ECE application that will be used to map the value to. An example of a ChildObject value would be "individual_customer_data".
eGainParamName	String	Name of parameter which will be mapped to an ECE attribute.
eGainAttribute	String	The attribute name for the given Business Object within the ECE application that will be used to map the value to. An example of an Attribute value would be "first_name".
eGainValue	String	The value that will be used to populate the Business Object within the ECE application. An example data value would be "John".
eGainPrimaryKey	String	Whether chat parameter is primary key. Can have values "1" or "0".
eGainMinLength	String	Minimum length of customer parameter.
eGainMaxLength	String	Maximum length of customer parameter.
eGainFieldType	String	Type of field in login form. Can be of values 1,2,3,4. 1-Text, 2-TextArea, 3-Dropdown, 4-Multiselect Dropdown
eGainRequired	String	If the parameter is required. Can have values "1" or "0".
eGainValidationString	String	Validation pattern for the chat parameter. Can be left blank if not required.

#### **CustomerParameter Methods**

There are no methods to be called on the ChatParameter object.

# Library Methods

- Chat and Callback Constructors
- ▶ Chat Setup
- ▶ Text Chat
- ▶ Callback
- Chat Attachments

## **Chat and Callback Constructors**

Method Name	Description	Return Value
Chat	Used to create a new instance of the eGainLibrary Chat object that will be used to invoke methods for chat functionality.	New instance of eGainLibrary.Chat object
Callback	Used to create a new instance of the eGainLibrary Callback object that will be used to invoke methods for callback functionality.	New instance of eGainLibrary.Callbac"Text Chat" on page 23k object

## **Chat Setup**

Method Name	Description	Return Value
AddConnectionParameter	Used to add parameters to the chat connection URL.	None
SetCustomer	Used to set customer object for chat. Customer object is created by creating instance of CustomerObject and setting attributes on it.	None
SetSamIResponse	This method is used for secure chat to set the SAML token which will be used to establish chat connection.	None
SetXEgainSession	This method is used to set context of deflection data to chat.	None
SetVisitorHistoryInformation	Used to set visitor history information for chat.	None
GetQueueCurrentStatus	Gets details of about the current queue load and estimated wait time.	None. Passes information retrieved to callback handler.

## **Text Chat**

Method Name	Description	Return Value	
Initialize (EntryPointId, Language, Country, EventHandlers, TemplateName, Version)	Used to create initialize a chat connection. This does not start a chat but sets up all the parameters required to start a chat.	None	
	Input Parameters		
, , , , , , , , , , , , , , , , , , , ,	► EntryPointId: Chat Entry Point ID		
	▶ Language: This determines the locale (language+country) to start chat.		
	Country: This determines the locale (language+country) to start chat.		
	ChatCallbacks: This is the object which would have all the callback handlers for chat events.		
	▶ <b>TemplateName:</b> This is the chat template name. This is required by chat server to determine formatting of mailed transcripts.		
	▶ <b>Version</b> : This is the chat template version number. Set this to v11.		
Start	Used to start the chat after the settings have been configured and the instance of the eGainLibary.Chat object has been created.	None	
	Input Parameters		
	None		
End	Used to end a chat connection.	None	
	Input Parameters		
	None		
GetEventHandlers	Used to get all the event handlers associated with chat. Event handlers are required to define functionality for each event.	Object containing reference to all event handlers.	
	Input Parameters		
	None		
SendMessageToAgent	This is the primary method used to send the customer messages to the	String value representing	
(MessageToSend, IsMessageOffRecord)	agent.	the message that was sent to the agent. If message	
Tomosagoomioosia,	<b>NOTE</b> : The maximum size limit for the message passed through this API is 800 characters.	was masked, it will return	
	Input Parameters	masked message	
	MessageToSend: HTML message sent by customer to agent.		
	▶ IsMessageOffRecord: The optional boolean parameter indicates		
	whether or not the current message should be sent, but not stored in		
	the transcript. Also, if masking is turned on, any messages sent with a		
	true value for isMessageOffRecord will send the clear text to the agent		
	NOT the masked version of the message.		
SandMackadMaccagaTaAcca	This method is used to send the masked customer messages to the	String value representing	
SendMaskedMessageToAgen t	agent.	the message that was sent	
(maskedMessage)	Input Parameters	to the agent.	
	<ul> <li>maskedMessage: masked HTML message sent by customer to agent.</li> </ul>		

Method Name	Description	Return Value
SendSystemMessage (HtmlMessage, Command)	Used to send "System Messages" that the client needs to communicate to the server. A common use case where this method is used is to display an information message that sensitive data has been masked	None
	Input Parameters	
	▶ HtmlMessage: HTML message sent as a system message	
	▶ Command: Command is used to specify commands like offRecord. No need to pass for normal system messages	
	For Example:	
	egainChatLibrary.SendSystemMessage(data,'offrecord') is used to notify server of off-record message	
	egainChatLibrary.SendSystemMessage(data,'onrecord') is used after an 'offrecord' message to notify server that forthcoming messages would again be on-record.	
SendCustomerStartTypingStat us	Used to send a notification to the chat agent that the customer is typing or has started typing. Can be called multiple times.	None
	Input Parameters None	
SendCustomerStopTypingStat us	Used to send a notification to the chat agent that the customer has stopped typing.	None
	Input Parameters None	
Attach (SessionID, RequestID)	API to attach to an existing chat. This needs to be called when user navigates from one page to another and on load of second page; this is needed to attach chat to existing chat on previous page.	None
	Input Parameters	-
	None	
AcceptAuthRequest (sessionID, requestId)	Used to get SAML request object and IDP URL after customer accepts mid chat authentication request sent by an agent	None
	Input Parameters	-
	sessionID: Chat session ID	
	requestId: Unique identifier for the authentication request sent by an agent	
DeclineAuthRequest (sessionID, requestId)	Used to notify the server that the customer has declined the authentication request sent by an agent	None
	Input Parameters	
	sessionID: Chat session ID	
	requestId: Unique identifier for the authentication request sent by an agent	

Method Name	Description	Return Value
SendBeaconToEndChat	Used to send end chat request asynchronously on using the browser close button on some browsers where navigator.sendBeacon is supported.	None
	Input Parameters None	

## **Callback**

Method Name	Description	Return Value	
Initialize (EntryPointId, Language, Country,	Used to create initialize a callback connection. This does not start a callback but sets up all the parameters required to start a chat.	None	
EventHandlers, TemplateName, Version,	Input Parameters		
SubActivity)	► EntryPointId: Chat Entry Point ID		
	▶ Language: This determines the locale (language+country) to start chat		
	▶ Country: This determines the locale (language+country) to start chat		
	ChatCallbacks: This is the object which would have all the callback handlers for chat events.		
	▶ <b>TemplateName:</b> This is the chat template name. This is required by chat server to determine formatting of mailed transcripts		
	Version: This is the chat template version number. Please set this to v11.		
	▶ <b>SubActivity</b> : This is the type of callback. Values can be "Callback" or "Delayedcallback"		
Start	Used to start the callback after the settings have been configured and the instance of the eGainLibary.Callback object has been created.	None	
	Input Parameters None	-	
	None		
GetEventHandlers	Used to get all the event handlers associated with callback. Event handlers are required to define functionality for each event.	None	
	Input Parameters		
	None		

## **Chat Attachments**

Method Name	Description	Return Value	
UploadAttachment	API to upload a file to chat server.	None	
	Input parameters		
	▶ <b>File:</b> Javascript File object which has information about file selected by customer for upload.		
	▶ AgentName: Name of chat agent.		
GetAttachment	API to download file sent by agent.	None	
	Input parameters		
	▶ Fileld: File ID of file. This is received when agent sends the attachment/file invite.		
GetArticleAttachment (FileId)	API to download an article attachment.	None	
	Input Parameters		
	▶ FileID: ID of attachment to be downloaded. This ID is found in the chat message when agent sends an article with the attachment.		
GetAttachmentImage	API to fetch attachment thumbnail.	None	
(attachmentId, uniqueFileId)	Input Parameters		
	▶ AttachmentD: ID of attachment to be downloaded. This ID is found in		
	the chat message when agent sends an article with the attachment.		
	UniqueFileId: This is a unique file name to be provided for the file for chat server to uniquely identify the file.		
SendCustomerAttachmentNot	Used to send notification to agent when attachment is sent by customer.	None	
ification (files, customerName)	Input Parameters		
	▶ Files: Array of File objects selected by customer to send to chat agent.		
	► CustomerName: Name of customer		
SendAcceptChatAttachmentN otification (fileId, fileName,	Used to send notification to agent when attachment sent by agent is accepted by customer.	None	
customerName)	Input Parameters		
	▶ FileId: ID of file received in the attachment invite		
	▶ FileName: Name of file		
	CustomerName: Name of customer		
SendRejectChatAttachmentN otification (fileId, fileName,	Used to send notification to agent when attachment sent by agent is rejected by customer.	None	
customerName)	Input Parameters	-	
	Fileld: ID of file received in the attachment invite		
	▶ FileName: Name of file		
	CustomerName: Name of customer		

## Library Event Handlers

- ▶ Text Chat
- ▶ Callback
- Chat Attachments

## **Text Chat**

Callback Name	Description	Event Arguments Returned	Mandatory
OnConnectionInitialized	Event raised when chat connection is successfully initialized. This event handler would return all the chat settings-masking data, if attachments are enabled, etc.	Initialization data retuned by server	No
OnConnectSuccess	Event raised when customer chat client is connected successfully. Does NOT indicate the user is connected to an agent.	ChatConnectEventArgs	Yes
OnConnectionComplete	Event raised when chat connection is successfully ended.	None Returned	Yes
OnConnectionFailure	Event raised when the chat fails to connect or if a disruption to the chat occurs.	ChatConnectionFailureEventArgs	Yes
OnDuplicateSession	Event raised if chat session is attempted to start when there is already another chat session established.	DuplicateSessionEventArgs	No
OnAgentsNotAvailable	Event raised if there are no agents available for the entry point.	AgentsNotAvailableEventArgs	Yes
OnSystemMessageReceived	Event raised each time a system message is received.	SystemMessageReceivedEventArgs	No
OnGetQueueCurrentStatus	Event raised when queue status details are received from server.	GetQueueLiveStatusArgs	No
OnMessagePropertyLoad	Event raised after messaging property file is loaded.	ChatMessagePropertyLoadEventArgs	No
OnErrorOccurred	Event raised when any network error occurs during an ongoing chat.	ErrorOccurredEventArgs	Yes
OnAgentMessageReceived	Event raised when chat agent message is received by client.	AgentMessageReceivedEventArgs	No
OnAgentJoined	Event raised every time agent joins a chat session.	AgentJoinedEventArgs	No
OnChatTransfer	Event raised when chat is transferred to another agent/queue.	ChatTransferEventArgs	No
OnAgentStartTyping	Event raised when chat agent starts typing.	AgentStartTypingEventArgs	No
OnAgentStopTyping	Event raised when chat agent stops typing.	AgentStopTypingEventArgs	No
OnTranscriptFetched	Event raised when chat transcript is fetched.	GetTranscriptArgs	No
OnCobrowselnviteReceived	Event raised when agent invites customer to join cobrowse session.	CobrowseInviteReceivedEventArgs	No
OnConnectionAttached	Event raised when new chat is attached to an existing chat connection.	None Returned	No
OnConnectionAttachedFailure	Event raised if there is a failure in attaching to existing chat.	None Returned	No

Callback Name	Description	Event Arguments Returned	Mandatory
OnAcceptAuthRequest	Event raised when customer accepts mid chat authentication request sent by an agent	AcceptAuthReqArgs	No
OnDeclineAuthRequest	Event raised when customer declines mid chat authentication request sent by an agent	DeclineAuthReqArgs	No
OnCustomerBlocked	Event raised when the customer is blocked by an agent	None Returned	No

## **Callback**

Callback Name	Description	Event Arguments Returned	Mandatory
OnCallbackInitialized	Event raised after Callback is initialized, i.e egainLibrary.Callback method is completed.	Initialization data retuned by server	No
OnCallbackMessagePropert yLoad	Event raised after messaging properties file is loaded.	CallbackMessagePropertyLoadEventA rgs	No
OnCallbackMessagePropert yLoad	Event raised when the Callback fails to connect or if a disruption to the Callback occurs.	CallbackConnectionFailureEventArgs	Yes
OnDuplicateSession	Event raised when Callback session on same browser already exists.	DuplicateSessionEventArgs	No
OnCallBackCompletion	Event raised when Callback connection is successfully ended.	None Returned	Yes
OnSystemMessageReceived	Event raised each time a system message is received.	SystemMessageReceivedEventArgs	No
OnAgentsNotAvailable	Event raised if there are no agents available for the entry point.	AgentsNotAvailableEventArgs	Yes
OnCallbackConnectSuccess	Event raised when customer Callback client is connected successfully. Does NOT indicate the user is connected to an agent.	CallbackConnectSuccessEventArgs	Yes
OnCallbackSucceeded	Event raised when Call is successfully placed.	CallbackSuccessEventArgs	Yes

## **Chat Attachments**

Callback Name	Description	Event Arguments Returned	Mandatory
OnGetAttachment	Event raised when attachment file is downloaded.	AgentAttachmentArgs	No
OnCustomerAttachmentNotification Sent	Event raised when attachment invite sent by customer is received by server.	CustomerAttachmentNotificationSent EventArgs	No

Callback Name	Description	Event Arguments Returned	Mandatory
OnAttachmentAcceptedByCustomer	Event raised when attachment invite sent by agent is accepted by customer.	AttachmentAcceptedByCustomerEven tArgs	No
OnAttachmentUploadedByCustomer	Event raised when attachment upload by customer is complete.	AttachmentUploadedByCustomerEven tArgs	No
OnAttachmentRejectedByCustomer	Event raised when attachment invite sent by agent is rejected by customer.	AttachmentRejectedByCustomerEvent Args	No
OnAttachmentAcceptedByAgent	Event raised when attachment invite sent by customer is accepted by agent.	AttachmentAcceptedByAgentEventAr gs	No
OnAttachmentRejectedByAgent	Event raised when attachment invite sent by customer is rejected by agent.	AttachmentRejectedByAgentEventArg s	No
OnAttachmentInviteReceived	Event raised when attachment invite sent by agent is received on client.	AttachmentInvitedAgentEventArgs	No
OnGetAttachmentImageThumbnail	Event raised when attachment thumbnails are received on client.	AttachmentThumbnailArgs	No

## Return Parameters From Event Handlers

- ▶ Text Chat
- **▶** Callback
- Chat Attachments

## **Text Chat**

Event Arguments	Property Name
ChatConnectEventArgs	<ul> <li>ChatID: Unique identifier of the activity that was created when the chat was initiated</li> <li>SessionID: Chat session ID</li> <li>Name: Customer name</li> <li>Subject: Subject entered when starting chat</li> </ul>
ChatConnectionFailureEventArgs	Used to create a new instance of the eGainLibrary Callback object that is used to invoke methods for callback functionality.
DuplicateSessionEventArgs	<ul> <li>IsSuccess: False</li> <li>StatusCode: DUPLICATE_SESSION</li> <li>StatusMessage: DUPLICATE SESSION</li> </ul>
AgentsNotAvailableEventArgs	<ul> <li>IsSuccess: False</li> <li>StatusCode: AGENTS_UNAVAILABLE</li> <li>StatusMessage: AGENTS UNAVAILABLE</li> </ul>
SystemMessageReceivedEventArgs	<ul> <li>Message: HTML version of the message sent by the system</li> <li>AgentJoinedMessage: True if it is the system message when an agent joins a chat, 'undefined' otherwise</li> <li>ChatTransferMessage: True if it is the system message when a chat is transferred, 'undefined' otherwise</li> <li>ArticleAttachmentMessage: True if it is the system message about an agent sending an article attachment, 'undefined' otherwise</li> </ul>
GetQueueLiveStatusArgs	<ul> <li>QueueDepth: Position of chat in queue</li> <li>WaitTime: Wait Time for chat</li> <li>AltEngmtTime: Time after which alternate engagement options need to be shown</li> </ul>
ChatMessagePropertyLoadEventArgs	▶ String containing I10n strings from the messaging property file
ErrorOccurredEventArgs	<ul> <li>Status: Status of error. Values can be – error(fatal error) and log(not a fatal error, should only be logged)</li> <li>Message: Details of error</li> </ul>
AgentMessageReceivedEventArgs	<ul> <li>Message: HTML version of the message sent by the agent</li> <li>AgentScreenName: Screen name of the agent who is typing the message</li> <li>PagePushMessage: True if it is the message about a page push event, false otherwise</li> </ul>
AgentJoinedEventArgs	▶ AgentName: Name of the agent
ChatTransferEventArgs	<ul> <li>TransferType: Method of activity transfer. Can be of values 1,2,3: 1-If chat is transferred to Department; 2-If chat is transferred to Queue; 3-If chat is transferred to Agent</li> <li>TransferEntityName: Name of the user/queue/department</li> <li>ChatAttachmentEnabled: True if attachments are enabled in the transferred queue, false otherwise</li> </ul>
AgentStartTypingEventArgs	▶ AgentScreenName: Name of the agent
AgentStopTypingEventArgs	▶ AgentScreenName: Name of the agent

<b>Event Arguments</b>	Property Name
GetTranscriptArgs	▶ CustomerName: Name of the customer
	▶ Subject: Subject entered when starting chat
	Assignee: Name of the agent if chat is assigned
	▶ StartTime: Time when chat started in XSD format
	▶ Messages: Array of chat messages
CobrowselnviteReceivedEventArgs	▶ Action: Cobrowse action
	▶ Session: Cobrowse session ID
	▶ CustomerName: Customer name
AcceptAuthReqArgs	▶ ?RequestId: unique identifier for an authentication request
	▶ ?SamlRequest: SAML data
	▶ ?IdpLoginUrl: Identity provider login URL
	▶ ?RelayState: relaystate
DeclineAuthReqArgs	▶ ?RequestId: unique identifier for an authentication request

## Callback

<b>Event Arguments</b>	Property Name
DuplicateSessionEventArgs	▶ IsSuccess: False
	► StatusCode: DUPLICATE_SESSION
	► StatusMessage: DUPLICATE SESSION
AgentsNotAvailableEventArgs	▶ IsSuccess: False
	▶ StatusCode: AGENTS_UNAVAILABLE
	▶ StatusMessage: AGENTS UNAVAILABLE
SystemMessageReceivedEventArgs	▶ Message: HTML version of the message sent by the system
	AgentJoinedMessage: True if it is the system message when agent joins chat, 'undefined' otherwise
	ChatTransferMessage: True if it is the system message when chat is transferred, 'undefined' otherwise
	ArticleAttachmentMessage: True if it is the system message about agent sending an article attachment, 'undefined' otherwise
CallbackMessagePropertyLoadEventA rgs	▶ String containing I10n strings from the messaging property file
CallbackConnectionFailureEventArgs	▶ IsSuccess: False
	▶ StatusCode: Status code to help identify error condition
	► StatusMessage: Details of error condition

Event Arguments	Property Name
CallbackConnectSuccessEventArgs	► CallBackID: Unique identifier of the activity that was created when the callback was initiated
	▶ SessionID: Callback session ID
	▶ Name: Name of the customer
	▶ Subject: Subject entered when starting callback
CallbackSuccessEventArgs	▶ IsSuccess: True
	► StatusCode: CALLBACK_SUCCESS
	► StatusMessage: CALLBACK_SUCCESS

## **Chat Attachments**

Event Arguments	Property Name
CustomerAttachmentNotificationSentE ventArgs	<ul> <li>Status: 'success' if attachments are enabled</li> <li>File</li> <li>Message</li> </ul>
AgentAttachmentArgs	<ul> <li>FileId</li> <li>UniqueFileId</li> <li>Data</li> </ul>
AttachmentAcceptedByCustomerEvent Args	<ul> <li>FileId</li> <li>FileName</li> <li>CustomerName</li> </ul>
AttachmentUploadedByCustomerEvent Args	➤ Status  ➤ AttachmentId  ➤ AttachmentName  ➤ AttachmentInternalName
AttachmentRejectedByCustomerEvent Args	► FileId ► FileName
AttachmentAcceptedByAgentEventArg s	<ul><li>▶ AgentName</li><li>▶ UniqueFileId</li><li>▶ FileName</li></ul>
AttachmentInvitedAgentEventArgs	Attachment:  ID  Name  AgentName  Type  AttachmentSize
AttachmentThumbnailArgs	<ul> <li>FileId</li> <li>UniqueFileId</li> <li>Data</li> </ul>

## Chat Code Snippets

- Adding a Reference
- ▶ Simple Startup Example
- ► Adding Customer Parameters and Setting Primary Key
- ► Starting the Chat Session
- ► Sending Customer Messages to Agent
- ► Handling Messages Received from an Agent
- ► Handling System Messages
- Chat Completion
- Masking Sensitive Information & Off-Record

The following are a series of code snippets demonstrating specific aspects of the Chat JavaScript Library.

### Adding a Reference

In order to leverage the library, you must first add a reference to the JavaScript in your HTML page. The snippet below demonstrates a reference to the minified version of the JavaScript library for production use.

```
<!-- SAMPLE CHAT CLIENT -->
<!DOCTYPE html>
<html>
<head>
<title>Sample Chat Client</title>
<script src="egain-client-library-X.X.X.min.js"
type="text/javascript"></script>
</head>
</html>
```

## **Simple Startup Example**

This example demonstrates the very basics of how to get a new instance of the library created and call the StartChat() method. The result of this code would be an anonymous chat with an agent for entry point ID 1000.

```
/* Create a new instance of the eGainLibrarySettings Object */
var librarySettings = new eGainLibrarySettings();
librarySettings.CORSHost ="http://myegainserver.com/system";
librarySettings.IsDevelopmentModeOn = false;
ibrarySettings.eGainContextPath = "";
librarySettings.ChatPauseInSec = "30";
librarySettings.IsDebugOn = false;

/* Next create a new instance of the eGainLibrary */
/* passing in the settings you have just created. */
var myLibrary = new eGainLibrary(librarySettings);

/* Now create an instance of the Chat Object */
var myChat = new myLibrary.Chat();
```

```
/* Next get the event handlers for chat. It is mandatory to provide definition
for the mandatory event handlers before initializing chat */
var myEventHandlers = myChat.GetEventHandlers();
/* Example browser alert when chat is connected */
        myEventHandlers.OnConnectSuccess = function () {
            alert('Chat Started!');
        };
 /* Example browser alert when there is a connection failure */
        myEventHandlers.OnConnectionFailure = function () {
            alert('Oops! Something went wrong');
       };
/* Example browser alert when there is an error during chat */
        myEventHandlers.OnErrorOccurred = function () {
            alert('Oops! Something went wrong');
       };
        /* Example output of agent messages to a DIV named TransScript with
jQuery */
       myEventHandlers.OnAgentMessageReceived = function
(agentMessageReceivedEventArgs) {
            $('#TransScript').append("<br />Agent: " +
agentMessageReceivedEventArgs.Message);
       };
        /* Example output of system messages to the same DIV */
        myEventHandlers.OnSystemMessageReceived = function
(systemMessageReceivedEventArgs) {
            $('#TransScript').append("<br />" +
systemMessageReceivedEventArgs.Message);
       };
        /* Example browser alert when agents are not available */
       myEventHandlers.OnAgentsNotAvailable = function
(agentsNotAvailableEventArgs) {
            alert('Sorry no agents available');
       };
        /* Example browser alert when the chat is completed */
        myEventHandlers.OnConnectionComplete = function () {
            $.mobile.changePage("#SimpleAnonymousChatPostChatScreen")
        };
```

```
/* Now call the Chat initialization method with your entry point and callbacks
myChat.Initialize($('#ChatEntryPointId').val(),'en', 'US', myEventHandlers,
'aria', 'v11');
/* Start chat */
myChat.Start();
```

# **Adding Customer Parameters and Setting Primary** Kev

In this example specific context is added to the customer object before it is passed into the StartChat() method.

```
/* Create the customer object */
var myCustomer = new myLibrary.Datatype.CustomerObject();
/* Set the primary key as email and specify the email address */
myCustomer.SetPrimaryKey(myCustomer.PrimaryKeyParams.PRIMARY_KEY_EMAIL,"jdoeano
mail.com");
/* Next we'll demonstrate adding the customer first name as a parameter */
var customerFirstName = new myLibrary.Datatype.CustomerParameter();
customerFirstName.eGainParamName = " full_name";
customerFirstName.eGainParentObject = " casemgmt";
customerFirstName.eGainChildObject = " individual_customer_data";
customerFirstName.eGainAttribute = "full_name";
customerLastName.eGainValue = $("#FirstName").val
customerFirstName.eGainMinLength = "1";
customerFirstName.eGainMaxLength = "50";
customerFirstName.eGainRequired = "1";
customerFirstName.eGainFieldType = '1';
customerFirstName.eGainValidationString ="";
myCustomer.AddCustomerParameter(customerFirstName);
/* Next we'll demonstrate adding the customer last name as a parameter */
var customerLastName = new myLibrary.Datatype.CustomerParameter ();
customerFirstName.eGainParamName = "last_name";
customerLastName.eGainParentObject = "casemgmt";
```

```
customerLastName.eGainChildObject = "individual_customer_data";
customerLastName.eGainAttribute = "last_name";
customerLastName.eGainValue = $("#LastName").val();
customerLastName.eGainMinLength = "1";
customerLastName.eGainMaxLength = "50";
customerLastName.eGainRequired = "1";
customerLastName.eGainFieldType = '1';
customerLastName.eGainValidationString ="";
myCustomer.AddCustomerParameter(customerLastName);
```

### **Starting the Chat Session**

In this example, the settings for the library have already been specified, set the callbacks, and set the customer object.

```
/* Now call the Chat initialization method with your entry point and callbacks
myChat.Initialize($('#ChatEntryPointId').val(),'en', 'US', myEventHandlers,
'aria', 'v11'); /* Then call the StartChat to create a chat */
myLibrary.SetCustomer(myCustomer);
/* Then call the StartChat to create a chat */
myChat.Start();
```

### **Sending Customer Messages to Agent**

To send a message to the agent from the customer simply call the SendMessageToAgent() method.

```
/* Simply place a call with the message you want to send */
myChat.SendMessageToAgent ("Hello agent");
```

### Handling Messages Received from an Agent

To handle the messages sent by a contact center agent, simply output the OnAgentMessageRecivedEventArgs.Message property.

```
/* Example output of agent messages to a DIV named TransScript with jQuery */
myCallbacks.OnAgentMessageReceived = function (agentMessageReceivedEventArgs) {
$('#TransScript').append("<br />Agent: " +
agentMessageReceivedEventArgs.Message);
};
```

### **Handling System Messages**

System messages are items sent by the chat application. These include messages like "Agent has joined", "Agent has ended the session" or other system related items. To process these messages simply output the <code>OnSystemMessageReceivedEventArgs.Message</code> property.

```
/* Example output of system messages to the Transcript DIV */
myCallbacks.OnSystemMessageReceived = function(systemMessageReceivedEventArgs)
{
$('#TransScript').append(systemMessageReceivedEventArgs.Message);
};
```

# **Chat Completion**

It is common to transition to a post-chat UI when the chat is completed. To accomplish this, place the page navigation along with any additional calls inside the OnChatCompletion callback.

```
/* Example navigation when the chat is completed */
myCallbacks.OnConnectionComplete = function () {
window.location = "http://yourdomain.com/post-chat.html";
};
```

### **Masking Sensitive Information & Off-Record**

The chat application supports the configuration of masking sensitive information during a chat session. If this option is configured in the console, you can leverage the capability with the following example. Note that by setting the On/Off record flag to "true" or "false", you can determine whether or not the information is masked for a specific message. To display the result in the transcript section, simply append the result of this call to the transcript object.

```
/* Send sensitive information to agent On Record */
var sentSensitiveInfo = myChat.SendMessageToAgent("My SSN is 333-22-
4444",false);
/* Send sensitive information to agent Off Record */
var sentSensitiveInfo = myChat.SendMessageToAgent("My SSN is 333-22-
4444",true);
/* Now you can append the result of this call to the transcript */
$('#TransScript').append(sentSensitiveInfo);
```

### **Accepting Mid-Chat Authentication Request Sent by** an Agent

When agent requests for mid chat authentication, server will publish a message with accept and decline options for customer.

When customer chooses to accept the mid chat authentication request, simply call **AcceptAuthRequest** method.

```
/* Call the method with chat session id and unique identifier for
authentication request received from the server */
myChat.AcceptAuthRequest(sessionID, requestId);
```

# **Declining Mid-Chat Authentication Request Sent by** an Agent

When agent requests for mid chat authentication, server will publish a message with accept and decline options for customer.

When customer chooses to decline or not to continue with the mid chat authentication request, simply call DeclineAuthRequest method.

```
/* Call the method with chat session id and unique identifier for
authentication request received from the server */
myChat.DeclineAuthRequest(sessionID, requestId);
```

# Callback Code Snippets

- Adding a Reference
- ▶ Simple Startup Example
- ► Adding Customer Parameters and Setting Primary Key
- ▶ Starting the Callback Session
- ► Handling System Messages

The following are a series of code snippets demonstrating specific aspects of the Callback JavaScript Library.

#### Adding a Reference

In order to leverage the library, you must first add a reference to the JavaScript in your HTML page. The snippet below demonstrates a reference to the minified version of the JavaScript library for production use.

```
<!-- SAMPLE CHAT CLIENT -->
<!DOCTYPE html>
<html>
<head>
<title>Sample Callback Client</title>
<script src="egain-client-library-X.X.X.min.js"</pre>
type="text/javascript"></script>
</head>
</html>
```

### Simple Startup Example

This example demonstrates the very basics of how to get a new instance of the library created and call the Start() method. The result of this code would be an anonymous chat with an agent for entry point id 1000.

```
/* Create a new instance of the eGainLibrarySettings Object */
var librarySettings = new eGainLibrarySettings();
librarySettings.CORSHost ="http://myegainserver.com/system";
librarySettings.IsDevelopmentModeOn = false;
ibrarySettings.eGainContextPath = "";
librarySettings.ChatPauseInSec = "30";
librarySettings.IsDebugOn = false;
/* Next create a new instance of the eGainLibrary */
/* passing in the settings you have just created. */
var myLibrary = new eGainLibrary(librarySettings);
/* Now create an instance of the Callback Object */
var myCallback = new myLibrary.Callback();
/* get an instance of event handlers object */
var myCallbacks = myCallback.GetEventHandlers();
```

```
/* and provide the function calls you want to happen on each event type */
/* Example browser alert when Callback is connected */
myCallbacks.OnCallBackConnectSuccess = function (args) {
console.log('OnCallBackConnectSuccess..');
$('#TransScript').append("<br/> CallBack Initiated!");
};
/* Example browser alert when Call is placed */
myCallbacks.OnCallBackSucceeded = function () {
console.log('OnCallBackSucceeded');
$('#TransScript').append("<br/> Call Placed!");
};
/* Example browser alert when there is a connection failure */
myCallbacks.OnCallBackConnectionFailure = function (args) {
console.log('OnCallBackConnectionFailure');
$('#TransScript').append("<br/>Oops! Something went
wrong..Status="+args.StatusCode);
};
/* Example output of system messages to the same DIV */
myCallbacks.OnSystemMessageReceived = function (systemMessageReceivedEventArgs)
console.log('OnSystemMessageReceived');
$('#TransScript').append("<br/>" + systemMessageReceivedEventArgs.Message);
};
/* Example browser alert when agents are not available */
myCallbacks.OnAgentsNotAvailable = function (agentsNotAvailableEventArgs) {
console.log('OnAgentsNotAvailable')
$('#TransScript').append("<br/> Sorry no agents available");;
};
/* Example browser alert when the chat is completed */
myCallbacks.OnCallBackCompletion = function () {
```

```
console.log('OnCallBackCompletion');
$.mobile.changePage("#WithParametersPostCallbackScreen")
};
```

### **Adding Customer Parameters and Setting Primary** Key

In this example specific context is added to the customer object before it is passed into the StartChat() method.

```
/* Create the customer object */
var myCustomer = new myLibrary.Datatype.CustomerObject();
/* Set the primary key as email and specify the email address */
myCustomer.SetPrimaryKey(myCustomer.PrimaryKeyParams.PRIMARY_KEY_EMAIL,"jdoeano
mail.com");
/* Next we'll demonstrate adding the customer full name as a parameter */
var myCustomer = new myLibrary.Datatype.CustomerObject();
var customerFirstName = new myLibrary.Datatype.CustomerParameter();
customerFirstName.eGainParentObject = "casemgmt";
customerFirstName.eGainChildObject = "individual_customer_data";
customerFirstName.eGainAttribute = "full name";
customerFirstName.eGainValue = "Joe Brown";
customerFirstName.eGainParamName = "full_name";
customerFirstName.eGainMinLength = "1";
customerFirstName.eGainMaxLength = "120";
customerFirstName.eGainRequired = "1";
customerFirstName.eGainFieldType = "1";
customerFirstName.eGainPrimaryKey = "0";
customerFirstName.eGainValidationString = "";
myCustomer.AddCustomerParameter(customerFirstName);
/* Next we'll demonstrate adding the customer email address as a parameter */
var customerEmail = new myLibrary.Datatype.CustomerParameter();
customerEmail.eGainParentObject = "casemgmt";
customerEmail.eGainChildObject = "email_address_contact_point_data";
```

```
customerEmail.eGainAttribute = "email_address";
customerEmail.eGainValue = "jdoe@nomail.com";
customerEmail.eGainParamName = "email_address";
customerEmail.eGainMinLength = "1";
customerEmail.eGainMaxLength = "50";
customerEmail.eGainRequired = "1";
customerEmail.eGainFieldType = "1";
customerEmail.eGainPrimaryKey = "1";
customerEmail.eGainValidationString = "";
myCustomer.AddCustomerParameter(customerEmail);
/* Next we'll demonstrate adding the customer phone number as a parameter */
var customerPhone = new myLibrary.Datatype.CustomerParameter();
customerPhone.eGainParentObject = "casemgmt";
customerPhone.eGainChildObject = "phone_number_data";
customerPhone.eGainAttribute = "phone_number";
customerPhone.eGainValue = "1112223333";
customerPhone.eGainParamName = "phone_number";
customerPhone.eGainMinLength = "1";
customerPhone.eGainMaxLength = "18";
customerPhone.eGainRequired = "1";
customerPhone.eGainFieldType = "1";
customerPhone.eGainPrimaryKey = "1";
customerPhone.eGainValidationString = "";
myCustomer.AddCustomerParameter(customerPhone);
/* Next we'll demonstrate adding the Delay Time (in minutes) as a parameter */
var delayTimeInMin = new myLibrary.Datatype.CustomerParameter();
delayTimeInMin.eGainParentObject = "casemgmt";
delayTimeInMin.eGainChildObject = "activity_data";
delayTimeInMin.eGainAttribute = "delay_time_in_min";
delayTimeInMin.eGainValue = "15"; // Note, this value will be 0 for CallBack.
It will be O or higher for Delayed Callback
delayTimeInMin.eGainParamName = "delay_time_in_min";
delayTimeInMin.eGainMinLength = "1";
delayTimeInMin.eGainMaxLength = "120";
```

```
delayTimeInMin.eGainRequired = "0";
delayTimeInMin.eGainFieldType = "1";
delayTimeInMin.eGainPrimaryKey = "0";
delayTimeInMin.eGainValidationString = "";
myCustomer.AddCustomerParameter(delayTimeInMin);
/* Next we'll demonstrate adding the Subject as a parameter */
var questionPrompt = new myLibrary.Datatype.CustomerParameter();
questionPrompt.eGainParentObject = "casemgmt";
questionPrompt.eGainChildObject = "activity_data";
questionPrompt.eGainAttribute = "subject";
questionPrompt.eGainValue = "0";
questionPrompt.eGainParamName = "subject";
questionPrompt.eGainMinLength = "1";
questionPrompt.eGainMaxLength = "120";
questionPrompt.eGainRequired = "0";
questionPrompt.eGainFieldType = "2";
questionPrompt.eGainPrimaryKey = "0";
questionPrompt.eGainValidationString = "";
myCustomer.AddCustomerParameter(questionPrompt);
```

### **Starting the Callback Session**

In this example, the settings for the library have already been specified, set the callbacks, and set the customer object.

```
/* Now call the Callback initiliaztion method with your entry point and
callbacks. Also specify the subActivity as 'Callback' or 'DelayedCallback' */
myCallback.Initialize('1000','en', 'US', myCallbacks, 'rainbow', 'v11',
'Callback');
/* Start the callback */
myCallback.Start();
```

# **Handling System Messages**

System messages are items sent by the callback application. They will include things like the "Agent has joined", "Agent has ended the session" or other system related items. To process these messages simply output the OnSystemMessageReceivedEventArgs.Message property.

```
/* Example output of system messages to the Transcript DIV */
myCallbacks.OnSystemMessageReceived = function(systemMessageReceivedEventArgs)
$('#TransScript').append(systemMessageReceivedEventArgs.Message);
};
```

# **Appendix: Reference Information**

▶ Enabling CORS on ECE Server

# **Enabling CORS on ECE Server**

If the chat application is deployed on the ECE server, then egainLibrary. CORSHost should be set to the server context root. However, if the chat application is deployed outside the application, the API requests made from client to server require CORS to be enabled on the server. CORSHost in this case should be set to the server context root with FQDN, for example:

```
egainLibrary. CORSHost = http://wyserver.com/system
```

For details on how to enable CORS in the application, see *Enterprise Chat and Email Administrator's Guide to Administration Console*.