

# Avaya Co-Browsing Snap-in Reference

Release 3.5 Issue 1 August 2018

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# **Chapter 1: Introduction**

## **Purpose**

This document describes the characteristics, features, capabilities, and performance specifications of Avaya Co-Browsing Snap-in. This document also provides information about how to install, configure, and administer Avaya Co-Browsing Snap-in. If you have knowledge of Java script, jQuery, HTML, and Cascading Style Sheets (CSS), you can use this document to integrate Avaya Co-Browsing Snap-in with the website for which you want to enable Co-browsing.

This document is intended for people who want to install, configure, and administer Avaya Co-Browsing Snap-in.

# **Chapter 2: Avaya Co-Browsing Overview**

## Avaya Co-Browsing Snap-in overview

Avaya Co-Browsing Snap-in provides a set of consolidated services for sharing a webpage session. Using Avaya Co-Browsing Snap-in, a customer and an agent can browse the same webpages to collaborate on certain tasks. The agent can assist the customer to perform various actions on the Avaya Co-Browsing Snap-in enabled webpages. For example, for navigating through the webpages and filling out forms.

Avaya Co-Browsing Snap-in leverages the Document Object Model (DOM), which is an application programming interface (API) for valid HTML documents.

Avaya Co-Browsing Snap-in runs on Avaya Breeze<sup>™</sup>, and you do not need to install any additional software or plug-in to use the snap-in.

Avaya Co-Browsing Snap-in provides the following functionality:

 A standard REST Web Service API to provide access to the Avaya Co-Browsing Snap-in services.

For more information about APIs, see *Avaya Co-Browsing Snap-in Developer and API Reference Guide* at <u>http://support.avaya.com</u>.

- A developer SDK, including a sample reference client that provides co-browsing capabilities.
- Out-of-the box summary reports about agents, sessions, and customers.

😵 Note:

Only one concurrent co-browse session can take place between an agent and a customer.

## New in this release

The current release of Avaya Co-Browsing Snap-in contains the following new features:

- · Web technologies that include IFrame element and CSS3 support.
- A marker to mark data on a webpage at the customer end in a chosen color.
- Annotation feature to draw geometric patterns by dragging the mouse on selected data on a webpage at the customer end.

• Pseudo class element support for webpages utilizing pseudo elements. These elements are programmed to display results of user actions that do not generate Document Object Model (DOM) events, so that the events enable seamless co-browsing.

## Prerequisites for integration with customer website

Avaya Co-Browsing Snap-in integrates closely with a customer website and supports only HTTPs traffic. To extend the co-browse functionality, you must:

- 1. Ensure that the customer website is functional and can use the co-browse functionality.
- 2. Analyze the extent of customizations and technologies needed on the customer website to integrate with Co-Browsing Snap-in. Co-Browsing Snap-in is most suitable for integration with customer websites that are developed using javascripts, angular.js, jquery, and HTML 5.
- 3. Analyze the different elements from the customer website that are enabled for cobrowsing.
- 4. Interact with the customer web development and user experience team to understand how the customer website is developed and how it can be integrated with Co-Browsing Snap-in.
- 5. Analyze the webpages that support co-browsing and identify the navigation strategy between the co-browse-enabled pages and normal pages of the customer website.
- 6. Identify the secure fields or elements on the customer website that can be enabled for cobrowsing.
- 7. Compare the namespace of the customer website or webpages with the co-browse namespace for any potential conflict.
- 8. Analyze the customer website JavaScript libraries for site-specific java scripts. In a cobrowse session, some java scripts can cause unexpected functionality. Analyze the java scripts and take action accordingly to ensure that the co-browse session does not display unwarranted issues.

## **Features**

## **Customer-initiated co-browsing**

A customer can start a co-browsing session to request assistance from an agent. For the agent to join the session, the customer must share the system-generated session key, which is an 8-digit number with a space after four digits. For example, 1234 5678.

A customer initiated co-browsing session is a one step process. After the session key is generated, the customer automatically becomes a part of the session . Moreover, the session remains active even if the customer does not share the session key with the agent.

During a session, a customer can give control of the co-browse enabled webpage to an agent for assistance. By default, an agent only has view-only permission for the webpage. But the agent can get more control on request, or the customer can promote the agent to control the webpage.

Even when the agent has control, the agent gets restricted access to the webpage. The customer can revoke control from the agent , or the agent can voluntarily release control at any time.

A session initiator, in this case, the customer, can change the language setting of the session only at the beginning of the session from a list with the available values. The system does not display all the values in the list to the joining party. Also, the joining party cannot override this setting during an ongoing session. If the initiator does not change the setting, the default setting from System Manager gets selected by default.

The user name of a session cannot have more than 30 characters.

#### Agent-initiated co-browsing

An agent can start a co-browsing session to assist the customer. For the customer to join, the agent must share the system-generated session key which is an 8-digit number with a space after four digits. For example, 1234 5678.

An agent initiated co-browse session is a two step process. After a session key is generated, the agent does not automatically become part of the session. An agent must use the key to join. Moreover, the agent can cancel a session even after generating a session key .

The session initiator, in this case, the agent, can change the language setting of the session only at the beginning of the session from a list with the available values. The system does not display all the values in the list to the joining party. Also, the joining party cannot override this setting during an ongoing session. If the initiator does not change the setting, the default setting from System Manager gets selected by default.

The user name of a session cannot have more than 30 characters.

#### Data masking

The customer can ensure data privacy and secure co-browsing by using security measures such as hiding sensitive information, preventing certain actions, and hiding certain elements. Depending on the legal and location-specific requirements, the customer can apply data masking to certain fields such as Social Security Number or credit card number. The customer can also block certain actions so that the agent does not submit any information on behalf of the customer.

## 😵 Note:

Ensure that the field that is masked for security cannot be edited by any other javascript events.

## **Highlight text**

The customer or agent can highlight static text. The highlight functionality is configurable and can be enabled or disabled. The highlight color is also configurable. The highlighted text is visible to both the initiator of the session and the co-browser. If the customer pauses a session after highlighting text, the highlighted text remains visible to the agent. But if the customer cancels the highlight after pausing the session, the change is visible to the agent only after the customer resumes the session.

The highlighted text disappears automatically when:

- The session control is passed on from the agent to the customer and vice versa.
- The agent or the customer clicks or double-clicks the mouse button.

## 😵 Note:

Highlight text does not apply to elements such as textbox, text area, or select box. The customer or agent can highlight only through mouse selection or a double-click.

## **IFrame support**

An agent can see IFrames on a customer's webpages. Using IFrame support, an agent can add or modify the content of the different HTML elements present inside an IFrame in an active cobrowsing session.

## Important:

Co-Browsing Snap-in supports only two levels of nested IFrames in a webpage.

## **CSS3** support

Co-Browsing Snap-in supports the following features as a part of the CSS3 support:

- Selectors: Patterns used to select the element you want to style.
- Box model: A box that wraps around every html element. It consists of margins, borders, padding, and the actual content.
- Background and borders: Properties used to define the background effects for elements.
- Image value and replaced content: A generic sizing algorithm for images and other replaced content.
- Text effects: An option to provide different effects to text on a page. For example, you can allow long words to be broken and wrapped onto the next line.
- Multiple column layout: Layout options to specify the number of columns that you can divide an element into.

For more information about CSS3 styles, see the Client SDK guide in DevConnect.

## Annotation

A customer can draw geometric figures on selected data on a webpage by using the mouse during an active co-browsing session. The geometric figures that a customer can draw in Co-Browsing Snap-in are:

- Rectangle
- Circle
- Freehand

## Important:

Currently, only the customer can use the annotation feature. The customer is not allowed to change the values of any field in the webpage while during the annotation process.

## Data Marker

A customer can mark data on a static webpage with any color during an active co-browsing session. The customer can remove the marker by clicking over the marked text.

## Important:

Currently, only the customer can use the data marker feature.

## Pseudo class element

A pseudo class is used to define a special state of an element. Avaya Co-Browsing Snap-in supports state synchronization of these pseudo class elements on webpages.

Co-Browsing Snap-in supports state synchronization of the following pseudo class elements:

- Selection: To make the selected text red in a yellow background.
- Active: To select and style an active link.
- Target: To match an element that is the target of the referring URI.
- Valid: To select and style only if the value of the input element is valid.
- Hover: To select a particular element with a pointing device when the user hovers with a cursor, or a mouse pointer.

For more information about pseudo class elements, see the *Client SDK* guide in DevConnect.

## Serviceability feature for Oceana monitoring

Co-Browsing Snap-in can send heartbeat messages to the Oceana Monitoring service, and you can track the messages and heartbeat information through System Manager. Heartbeat messages are visible on the Oceana Portal Monitor service page. You can view heartbeat messages through System Manager only if you have selected the **Oceana serviceability feature enable** check box and set the value to true. For more information, see the *Troubleshooting* section of this document.

# Chapter 3: Avaya Co-Browsing requirements and compatibility

## Avaya product requirements

Install the following Avaya products before installing Avaya Co-Browsing Snap-in:

Avaya products	Version
Avaya Breeze <sup>™</sup>	3.5
Avaya Aura <sup>®</sup> System Manager	8.0

## Supported browsers and devices

Device	OS version	Default Browser Version
Nexus 5 Phone	Android 6.0.1	Chrome 66
Nexus 7 TAB	Android 6.0.1	Chrome 66
iPhone 6	iPhone 6	Safari 11
iPAD Air	iOS 9.3.3	Safari 11
MacBook	OS X EL Capitan Ver 10.11.5	Safari 11
Desktop or Laptop	Windows 7 and or Windows 10	Chrome 66
Desktop or Laptop	Windows 7 and or Windows 10	Firefox 59.0.3
Desktop or Laptop	Windows 7 and or Windows 10	Internet Explorer 11
Desktop or Laptop	Windows 7 or Windows 10	Microsoft Edge 40

## Important:

- Enable the Java script support in your browser for the Avaya Co-Browsing Snap-in. For more information, see <a href="http://www.enable-javascript.com/">http://www.enable-javascript.com/</a>.
- Enable cookies support in your browser for Avaya Co-Browsing Snap-in to work correctly. For more information, see <a href="http://www.whatarecookies.com/enable.asp">http://www.whatarecookies.com/enable.asp</a>.

## **Database requirements**

Avaya Co-Browsing Snap-in 3.5 supports the following external databases:

- Oracle 11.2.0.4g
- MS SQL Server 2012 and MS SQL Server 2014
- PostgreSQL 9.4.1
- Intersystem Caché Database 2015

## Hardware requirements

The Avaya Co-Browsing Snap-in hardware requirements are based on the Avaya Breeze<sup>™</sup> and System Manager requirements. For more information, see the respective product documentation. In addition, you need Avaya Breeze<sup>™</sup> with 4 vCPU, 8 GB RAM, and 100 GB HDD.

# **Chapter 4: Licensing overview**

## License requirements

To use Avaya Co-Browsing Snap-in, you must procure the valid Avaya Co-Browsing Snap-in and Avaya Breeze<sup>™</sup> license files.

Avaya Co-Browsing Snap-in uses the snap-in service licensing feature provided by Avaya Breeze<sup>™</sup>. The platform and snap-in licenses are available through PLDS. You must install these licenses on the WebLM server of Avaya Aura<sup>®</sup> System Manager which manages the platform and snap-in licenses.

Avaya Co-Browsing Snap-in contains a digital signature that the Avaya Breeze<sup>™</sup> Element Manager uses to confirm that the licenses are applicable to these services. If the signature is invalid, the system does not load the service.

A single license containing the information for each licensed feature applies to the Avaya Co-Browsing Snap-in.

## **Configuring Avaya Co-Browsing Snap-in licenses**

## Before you begin

- Get the Avaya Co-Browsing Snap-in license from Avaya PLDS.
- You must get the primary HOST ID from the System Manager to generate the Avaya Co-Browsing license.

Login to System Manager. Navigate to Home > Services > Licenses > Server properties.

- Ensure that the Avaya Co-Browsing Snap-in license is installed on the WebLM server that is integrated with System Manager.
- Ensure that the Avaya Breeze<sup>™</sup> platform license is installed on System Manager.

In System Manager, click **Elements** > **Avaya Breeze<sup>™</sup>** > **Server Administration** to see the current status of each Avaya Breeze<sup>™</sup> server platform license.

## About this task

Configure Avaya Co-Browsing Snap-in licenses in System Manager.

## Procedure

- 1. On the System Manager Home page, click **Services** > **Licenses**.
- 2. Select Install License.
- 3. Browse to the location of the Avaya Co-Browsing Snap-in license.
- 4. Select the license file and click Install.

The system installs the license file.

In the left navigation pane, the system displays Collaborative\_Browsing\_Snap\_in in Licensed Products.

- 5. To verify if the license file is installed successfully:
  - a. Click Elements > Avaya Breeze<sup>™</sup> > Service Management.
  - b. In the **License mode** column, verify that the column displays a check mark for the Avaya Co-Browsing Snap-in mode.

The following licensing modes apply to all Avaya Breeze<sup>™</sup> and Avaya Co-Browsing Snap-in licenses:

- License Normal Mode: A valid license file is installed. The complete functionality is present for the Avaya Breeze<sup>™</sup> instance.
- License Error Mode: License error is seen in this mode. The Avaya Breeze<sup>™</sup> instance is in a 30 day grace period during this mode. Complete functionality is available during the grace period. The system displays the warning icon along with the date and time of the grace period expiration in the License Mode column. If the grace period expires and the license error has not been corrected, the snap-in enters License Restricted mode and is uninstalled from all clusters.
- License Restricted Mode: The Avaya Co-Browsing Snap-in instance goes in to the restricted mode after the 30 day grace period expires. As a result of this unresolved license error, the snap-in is in the License Restricted mode and is uninstalled from all clusters. If you install a license file, the Avaya Co-Browsing Snap-in server goes into the normal mode and automatically returns to service.

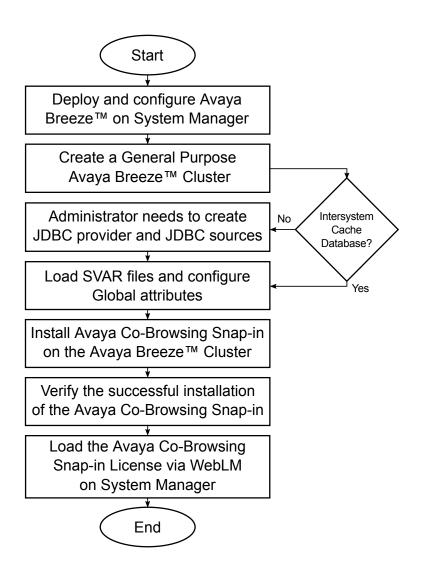
For more information about licensing modes and licensing for Avaya Breeze<sup>™</sup>, see *Administering Avaya Breeze*<sup>™</sup>.

Avaya Breeze<sup>™</sup> licensing audit runs every 9 minutes. Any license changes, including install or uninstall actions on the WebLM server, take time to reflect on the user interface. The latest license information thus takes maximum 9 minutes to reflect in the Avaya Breeze<sup>™</sup> Element Manager.

# **Chapter 5: Deployment overview**

## Avaya Co-Browsing Snap-in deployment process flow

The following diagram depicts the process flow for installing the Co-Browsing Snap-in for the first time:



## Avaya Co-Browsing Snap-in deployment checklist

running.       console and check if you can login as an administrator.         2       Install and configure the Avaya Breeze" server.       Before turning on the Avaya Breeze" server, ensure that you set the memory to 8 GB of RAM.         3       Create an Avaya Co-Browsing Snap-in cluster.       Assign a Avaya Breeze" server to the Avaya Co-Browsing Snap-in cluster. <b>3</b> Create an Avaya Co-Browsing Snap-in cluster. <b>4</b> Assign a Avaya Breeze" server, you must add the server to a cluster. If not, the Avaya Breeze" server, you must add the server to a cluster. If not, the Avaya Breeze" asset is not usable.         Ensure that you have enabled Only allow secure web communication checkbox. If you are using a multi-instance clustered environment, then enable Is load balancer enabled and Is session affinity enabled checkbox.         4       Download the Avaya Co-Browsing Snap-in SVAR file       None.         5       Load the Avaya Co-Browsing Snap-in SVAR file       None.         6       Configure JDBC provider and JDBC sources for Oracle, PostgreSQL, and MS SQL Server databases.       For more information about this, see Creating JDBC Providers DataSources on page 23. If you are using Intersystem Cache database, you do not need to configure JDBC providers.         7       Configure global attributes.       For more information about this, see Creating UBC Providers.         8       Load the Avaya Co-Browsing Snap-in license       For more information about this, see Creating UBC. Providers DataSources on page 29.         7       Configure global attrib	No.	Task	Notes	
ensure that you set the memory to 8 GB of RAM.3Create an Avaya Co-Browsing Snap-in cluster.Assign a Avaya Breeze <sup>™</sup> server to the Avaya Co-Browsing Snap-in cluster.3Note: When you administer a new Avaya Breeze <sup>™</sup> server, you must add the server to a cluster. If not, the Avaya Breeze <sup>™</sup> asset is not usable.4Download the Avaya Co-Browsing Snap-in services from PLDS.The Avaya Co-Browsing Snap-in services are available as Service Archive (SVAR) files, and the Client is available as zip files.5Load the Avaya Co-Browsing Snap-in SVAR file in System Manager.None.6Configure JDBC provider and JDBC sources for Oracle, PostgreSQL, and MS SQL Server databases.For more information about this, see <u>Creating</u> JDBC Providers DataSources on page 23. If you are using Intersystem Cache database, you do not need to configure JDBC providers.7Configure global attributes.For more information about this, see Configure IDBC providers.8Load the Avaya Co-Browsing Snap-in license requirements on page 15.For more information on licensing, see License requirements on page 15.	1		console and check if you can login as an	
<ul> <li>Co-Browsing Snap-in cluster.</li> <li>Note: When you administer a new Avaya Breeze<sup>®</sup> server, you must add the server to a cluster. If not, the Avaya Breeze<sup>®</sup> asset is not usable.</li> <li>Ensure that you have enabled Only allow secure web communication checkbox.</li> <li>If you are using a multi-instance clustered environment, then enable Is load balancer enabled and Is session affinity enabled checkbox.</li> <li>Download the Avaya Co-Browsing Snap-in services from PLDS.</li> <li>Do not add any space between the file name and the service name while saving the SVAR file.</li> <li>Load the Avaya Co-Browsing Snap-in SVAR file</li> <li>Configure JDBC provider and JDBC sources for Oracle, PostgreSQL, and MS SQL Server databases.</li> <li>Configure global attributes.</li> <li>For more information about this, see Configure JDBC providers.</li> <li>For more information about this, see Configure global attributes.</li> <li>Load the Avaya Co-Browsing Snap-in license via WebLM.</li> <li>Install Avaya Co-Browsing Snap-in</li> <li>None.</li> </ul>	2	Install and configure the Avaya Breeze <sup>™</sup> server.	ensure that you set the memory to 8 GB of	
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<ul> <li>environment, then enable Is load balancer enabled and Is session affinity enabled checkbox.</li> <li>Download the Avaya Co-Browsing Snap-in services from PLDS.</li> <li>Download the Avaya Co-Browsing Snap-in services from PLDS.</li> <li>The Avaya Co-Browsing Snap-in services are available as Service Archive (SVAR) files, and the client is available as zip files.</li> <li>Note: Do not add any space between the file name and the service name while saving the SVAR file.</li> <li>Load the Avaya Co-Browsing Snap-in SVAR file in System Manager.</li> <li>Configure JDBC provider and JDBC sources for Oracle, PostgreSQL, and MS SQL Server databases.</li> <li>Configure global attributes.</li> <li>For more information about this, see <u>Creating</u> JDBC Providers DataSources on page 23. If you are using Intersystem Cache database, you do not need to configure JDBC providers.</li> <li>Configure global attributes.</li> <li>For more information about this, see <u>Configuring Global Attributes</u> on page 29.</li> <li>Load the Avaya Co-Browsing Snap-in license via WebLM.</li> <li>Install Avaya Co-Browsing Snap-in.</li> <li>None.</li> </ul>				
<ul> <li>services from PLDS.</li> <li>available as Service Archive (SVAR) files, and the client is available as zip files.</li> <li>Note:</li> <li>Do not add any space between the file name and the service name while saving the SVAR file.</li> <li>Load the Avaya Co-Browsing Snap-in SVAR file in System Manager.</li> <li>Configure JDBC provider and JDBC sources for Oracle, PostgreSQL, and MS SQL Server databases.</li> <li>Configure global attributes.</li> <li>Configure global attributes.</li> <li>For more information about this, see Creating JDBC providers.</li> <li>For more information about this, see Configure JDBC providers.</li> <li>Install Avaya Co-Browsing Snap-in license via WebLM.</li> <li>Install Avaya Co-Browsing Snap-in.</li> <li>None.</li> </ul>			environment, then enable Is load balancer enabled and Is session affinity enabled	
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via WebLM.     requirements on page 15.       9     Install Avaya Co-Browsing Snap-in.     None.	7	Configure global attributes.	,	
	8		-	
10     Verify the installation.     None.	9	Install Avaya Co-Browsing Snap-in.	None.	
	10	Verify the installation.	None.	

No.	Task	Notes
11	Configure alarms on System Manager.	None.

## **High availability**

The customers can deploy the co-browse application on multiple nodes of an Avaya Breeze<sup>™</sup> cluster. The actual Avaya Breeze<sup>™</sup> node handling the request is transparent to the API client. You can deploy Avaya Co-Browsing Snap-in either on an independent Avaya Breeze<sup>™</sup> cluster with session affinity enabled. If you disable the session affinity on the Avaya Breeze<sup>™</sup> cluster, then you must use an external load balancer to achieve high availability.

## **Related links**

<u>Avaya Co-Browsing Snap-in on a single node Avaya Breeze cluster</u> on page 20 Avaya Co-Browsing Snap-in on a multi-node Avaya Breeze cluster on page 20

# Avaya Co-Browsing Snap-in on a single node Avaya Breeze<sup>™</sup> cluster

If at least one node in the Avaya Breeze<sup>™</sup> cluster is active and accepting new requests, the cluster IP will service incoming requests. The scope of the cluster support does not imply support for the following:

- 1. Load balancing: An even distribution of incoming requests to various nodes within the Avaya Breeze<sup>™</sup> cluster is not provided. The mechanism for even load distribution is Avaya Breeze<sup>™</sup> dependent.
- 2. High availability: A backup Avaya Breeze<sup>™</sup> node takes 5 to 7 minutes to start serving requests after the primary Avaya Breeze<sup>™</sup> node is unable to serve requests. During this period, the cluster IP might be unable to service new requests.
- 3. Session preservation: Ongoing sessions being serviced by a particular node will not be preserved when that Avaya Breeze<sup>™</sup> node is no longer available to serve requests.

😒 Note:

Ensure that the Use Security IP for Multi-Node attribute value is set to True.

#### **Related links**

High availability on page 20

## Avaya Co-Browsing Snap-in on a multi-node Avaya Breeze<sup>™</sup> cluster

If you want to install Avaya Co-Browsing Snap-in on a multi-node Avaya Breeze<sup>™</sup> cluster, ensure that the **Use Security IP for Multi-Node** attribute value is set to False. If the session affinity is

disabled , you will need an external load balancer to achieve high availability. The external load balancer IP address or FQDN is used as the CoBrowse service address. The external loadAvaya Breeze<sup>™</sup> balancer must be able to support:

- Session affinity: To ensure that subsequent requests coming from the same client are routed to the same node. You can achieve session affinity using features like ip\_hash, hash, or cookie-based session affinity.
- Routing based on URL parameters: To route the join request and subsequent request after join from the client to land on the respective node where CoBrowse session is created.
- Load balancing requests: To ensure that each node has well distributed amount of CoBrowse session creation requests.

## **Related links**

High availability on page 20

## Creating an Avaya Co-Browsing Snap-in cluster

## Procedure

- 1. On the System Manager web interface, click Elements > Avaya Breeze<sup>™</sup>.
- 2. In the left pane, click Cluster Administration.
- 3. On the Cluster Administration page, click New.

The system displays the Cluster Editor page.

4. In the Cluster Profile drop-down list, select the General Purpose profile.

The system refreshes the Cluster Editor page and populates the profile attributes.

- 5. In the **General** tab, type the details in the following fields:
  - a. Cluster Name: The unique name of the cluster.
  - b. **Cluster IP**: The cluster IP address. The cluster IP address is mandatory if you enable the load balancer. If you enable the load balancer, ensure you select session affinity.

For information on setting up the load balancer, see Administering Avaya Breeze<sup>™</sup>.

- c. Description: The description of the cluster.
- d. Ensure that you have selected **Only allow secure web communication** check box.
- e. If you want to deploy Avaya Co-Browsing Snap-in on multiple nodes, ensure you select the **Is load balancing enabled** check boxes.
- In the Servers tab, in the Unassigned Servers table, click the plus sign (+) next to the Name column to add the Avaya Breeze<sup>™</sup> server to the cluster.

If the server is assigned to another cluster, remove the server from the existing cluster before you add to the Avaya Co-Browsing Snap-in cluster.

7. In the Services tab, select the services to install on all servers in the cluster.

8. Click **Commit** to create the cluster.

On the Cluster Administration page, the **Service Install Status** field displays a green check mark after the cluster is successfully created.

9. (Optional) To view the Avaya Breeze<sup>™</sup> instances in the cluster, click Show in the Details column of the cluster.

The system displays the members of the cluster and the status of each instance in the cluster.

10. **(Optional)** To view the details of the Snap-ins installed on that instance, click a specific Avaya Breeze<sup>™</sup> instance in the cluster.

## Installing Avaya Co-Browsing Snap-in

## Loading Avaya Co-Browsing Snap-in

## Before you begin

- Install a WebLM license of Co-Browsing Snap-in on System Manager.
- Download the Avaya Co-Browsing Snap-in services from PLDS.

## Procedure

- 1. On the System Manager web interface, click Elements > Avaya Breeze<sup>™</sup> > Service Management > Services.
- 2. Click Load.
- 3. On the Load Service window, click Choose File.
- 4. In the Load Service dialog box, click **Browse** and select the Avaya Co-Browsing Snap-in<*CoBrowse-x.y.O.O.zzzzz*>.svar file, where x, y, and z denotes the Co-Browsing Snap-in version.

The system displays the Avaya Co-Browsing Snap-in<*CoBrowse-x.y*. 0.0.zzzzz>.svar file in the Local PC text field, where x, y, and z denotes the Co-Browsing Snap-in version.

5. Click Load.

System Manager checks the licensing of Co-Browsing Snap-in. On successful validation, System Manager displays the Accept End User License Agreement dialog box.

6. Click Accept.

System Manager adds Avaya Co-Browsing Snap-in to the list of services.

7. On the **Avaya Breeze**<sup>™</sup> web interface, click **Services** page to ensure Co-Browsing Snapin is in loaded state.

## **Creating JDBC providers and datasources**

## About this task

Use this procedure to create JDBC providers and datasources.

## Important:

Skip this procedure if you use the Intersystem Cache database.

## Before you begin

Ensure you download the JDBC driver .jar file compatible with the database version you want to use from the database vendor website. Ensure you are using the correct .jar file and the implementation class for that .jar file.

The following table lists the database and the corresponding .jar files:

Database	.jar file
Oracle	ojdbc6.jar
PostgreSQL	postgresql-9.0-801.jdbc4.jar
MS SQL Server	sqljdbc4-4.1.jar

## Procedure

- 1. Login to System Manager.
- 2. Navigate to Home > Avaya Breeze<sup>™</sup> > Configuration > JDBC Providers.
- 3. Click New.
- 4. In the Jar field, create a JDBC provider using the JDBC driver .jar file.

In the **JDBC Provider Editor**, specify the class name as mentioned in the <u>JDBC Provider</u> <u>Class Name</u> on page 25.

In the Jar File, select the .jar file. For example, if you are creating JDBC provider MS SQL server TestProvider, then use the MS SQL server JDBC driver sqljdbc4-4.1.jar file.

- 5. Navigate to Home > Avaya Breeze<sup>™</sup> > Service Management > Services.
- 6. Search for the JDBC provider you created in step 3.
- 7. Select the provider and click Install.

The system displays a popup list of clusters.

8. Select the cluster on which you want to install the provider and click **Commit**.

- 9. After you successfully install the JDBC provider, reboot all **Avaya Breeze**<sup>™</sup> instances for the cluster
- 10. Navigate to Home > Avaya Breeze<sup>™</sup> > Configuration > JDBC Sources.
- 11. Add a new datasource from the JDBC datasource page.
- 12. On the JDBC Data Source editor page, under **Basic** section, select the cluster on which you installed the provider.

The system populates the installed provider name in the **JDBC Provider** drop-down.

😵 Note:

Do not edit the **TLS** check box if you are using the Intersystem Cache database.

- 13. Specify a JNDI name. you can specify the JNDI name as jdbc/<anyname>. For example, if you creating JDBC source for SQL, then mention the JNDI name as jdbc/ sql.
- 14. Specify the database URL, username, and password to connect to the database. For example, jdbc:oracle:thin:<DB server IP address>:<port number>:oracledb.
- 15. Under Custom Properties section, in the Name tab, specify the database name as databaseName and under the Value tab, specify the value as configured on the MS SQL server and PostgresSQL.
- 16. Under the **Name** tab, specify the port number as portNumber and under the **Value** tab, specify the value as configured on the MS SQL server and PostgresSQL.
- 17. Under the **Name** tab, specify the server name as serverName and under the **Value** tab, specify the value as configured on the MS SQL server and PostgresSQL.
- 18. Under the **Name** tab, specify the user name as user and under the **Value** tab, specify the value as configured on the PostgresSQL.
- 19. Under the **Name** tab, specify the password name as password and under the **Value** tab, specify the value as configured on the PostgresSQL.
- 20. Click Commit.
- 21. On the JDBC Data Sources page, click **Test Connection**.

This page displays the status of the connection to the database.

22. Reboot Avaya Breeze<sup>™</sup> server after test connection is successful.

#### **Related links**

JDBC Provider Class Name on page 25

Database	JDBC Provider Class Name	JDBC Sources sample DB URL
Oracle	oracle.jdbc.pool.OracleConnectionPool DataSource	jdbc:oracle:thin:@ <databaseserver ip<br="">or FQDN&gt;:port number:<database name=""></database></databaseserver>
		serverName
		databaseName
		portNumber: default is 1521
PostgreS	org.postgresql.jdbc2.optional.Connectio	jdbc:postgresql:// <database ip<="" server="" td=""></database>
QL	nPool	Ensure you configure the following custom properties:
		serverName
		databaseName
		portNumber: default is 5432
MS SQL Server	com.microsoft.sqlserver.jdbc.SQLServe rConnectionPoolDataSource	jdbc:sqlserver:// <database ip<br="" server="">or FQDN&gt;</database>
		Ensure you configure the following custom properties:
		• serverName
		databaseName
		portNumber: default is 1433

## **JDBC Provider Class Name**

## **Related links**

Creating JDBC providers and datasources on page 23

## **Configure Intersystem Cache database**

## Configuring Intersystem Caché database for data

You must create a separate database for storing code and data.

## Before you begin

Ensure you install the Intersystem Caché instance.

## Procedure

- 1. Log in to the system where you have installed the Caché instance.
- 2. Enter the following URL in your web browser:

http://<INTERSYSTEM\_CACHÉ\_DATABASE\_IP>:57772/csp/sys/UtilHome.csp

- 3. Perform the following steps to log in to the Caché Management portal:
  - a. In the User Name field, enter the user name as \_admin.
  - b. In the Password field, enter the password as Oceana16.
  - c. Click LOGIN.
- 4. Click Home > System Administration > Configuration > System Configuration > Local Database.
- 5. Click Create New Database and specify a name for the database along with the path. For example, C:/intersystems/cache/cobrowse/data.
- 6. Click Next.
- 7. Specify a value for **Initial Size (MB)** as per your requirement. The minimum value is 11 MB.
- 8. Specify a value for **Block size for this database will be** as per your requirement. and select **Journal globals** as Yes.

The minimum block size is 8 KB.

- 9. Click Next.
- 10. Select the default resource as **DB\_DEFAULT**, and click **Next**.
- 11. Click Finish.

## Configuring Intersystem Caché database for code

You must create a separate database for storing code and data.

## Before you begin

Ensure you install the Intersystem Caché instance.

## Procedure

- 1. Log in to the system where you have installed the Caché instance.
- 2. Enter the following URL in your web browser:

http://<INTERSYSTEM\_CACHÉ\_DATABASE\_IP>:57772/csp/sys/UtilHome.csp

- 3. Perform the following steps to log in to the Caché Management portal:
  - a. In the User Name field, enter the user name as \_admin.
  - b. In the Password field, enter the password as Oceana16.
  - c. Click LOGIN.
- 4. Click Home > System Administration > Configuration > System Configuration > Local Database.
- 5. Click **Create New Database** and specify a name for the code database along with the path. For example, C:/intersystems/cache/cobrowse/code.

- 6. Click Next.
- 7. Specify a value for **Initial Size (MB)** as per your requirement. The minimum value is 128 MB.
- 8. Specify a value for **Block size for this database will be** as per your requirement, and select **Journal globals** as Yes.

The minimum block size is 8 KB.

- 9. Click Next.
- 10. Select the default resource as **DB\_DEFAULT**, and click **Next**.
- 11. Click Finish.

## **Configuring namespaces**

## Procedure

- 1. Log in to the system where you have installed the Caché instance.
- 2. Enter the following URL in your web browser:

http://<INTERSYSTEM\_CACHÉ\_DATABASE\_IP>:57772/csp/sys/UtilHome.csp

- 3. Perform the following steps to log in to the Caché Management portal:
  - a. In the User Name field, enter the user name as \_admin.
  - b. In the Password field, enter the password as Oceana16.
  - c. Click LOGIN.
- 4. Click Home > System Administration > Configuration > System Configuration > Namespaces.
- 5. Click Create New Namespace.
- 6. Specify the name for the namespace.
- 7. From the **Select an existing database for Globals** list, select the Co-Browse database for data that you created earlier.
- 8. From the **Select an existing database for Routines** list, select the Co-Browse database for code that you created earlier.
- 9. Click Save.

## Creating a new role

## Procedure

- 1. Log in to the system where you have installed the Caché instance.
- 2. Enter the following URL in your web browser:

http://<INTERSYSTEM\_CACHÉ\_DATABASE\_IP>:57772/csp/sys/UtilHome.csp

- 3. Perform the following steps to log in to the Caché Management portal:
  - a. In the User Name field, enter the user name as \_admin.
  - b. In the Password field, enter the password as Oceana16.
  - c. Click LOGIN.
- 4. Click Home > System Administration > Security > Roles.
- 5. Click Create New Role.
- 6. Specify a name and description for the role.
- 7. Click Save.
- 8. Navigate to Assigned To tab, select the <code>%ALL</code> role, and click Assign.
- 9. Navigate to the General tab and click **Save**.
- 10. Click Cancel.

## Creating a new user

## Procedure

- 1. Log in to the system where you have installed the Caché instance.
- 2. Enter the following URL in your web browser:

```
http://<INTERSYSTEM CACHÉ DATABASE IP>:57772/csp/sys/UtilHome.csp
```

- 3. Perform the following steps to log in to the Caché Management portal:
  - a. In the User Name field, enter the user name as \_admin.
  - b. In the Password field, enter the password as Oceana16.
  - c. Click LOGIN.
- 4. Click Home > System Administration > Security > Users.
- 5. Click Create New User.
- 6. Specify a name and password for the user.
- 7. Select Password never expires and Account never expires check boxes.
- 8. Give Startup Namespace as required. For example, COBROWSE.
- 9. Click Save.
- 10. Navigate to the Roles tab, select the required role name, and click Assign.
- 11. Navigate to the General tab and click **Save**.
- 12. Click Cancel.

## Configuring global attributes

## About this task

Configuring values for the Avaya Co-Browsing Snap-in is a one-time activity that you must perform before installing Avaya Co-Browsing snap-in.

## Procedure

- 1. On the System Manager Home page, in **Elements**, select **Avaya Breeze**<sup>™</sup> > **Configuration** > **Attributes**.
- 2. Click the Service Globals tab.
- 3. In Service, click the service that contains the attributes you want to configure.

The table displays all attributes that you can configure for a CoBrowse service with the description of each attribute.

- 4. For the attribute you want to change:
  - a. Click Override Default.
  - b. In the Effective Value field, enter the new value or string.
- 5. Click **Commit** to save your changes.

The cluster level service attributes persist after an uninstall from the cluster. The values are retained for a subsequent installation, so that you do not have to re-configure all attributes when changing service versions.

## **Runtime service configuration attributes**

You can set the default group attributes.

Name	Description
Enable Centralized Logging	Indicates that centralized logging is needed by the snap-in after the snap-in is installed.
	This attribute is not editable.
	🐼 Note:
	This feature is available only when Co-Browing Snap-in is used in conjunction with oceana workspaces.
Inactive Timeout (Minutes)	Displays the value in minutes. The system ends a session if the owner of the co-browse session is idle for the time, that is configured in Inactive time out (minutes). The default value is 2 minutes. The
	Table continues

Name	Description
	minimum value is 2 minutes and maximum value is 29 minutes.
Inactive Timeout (Message)	Displays the message after the system ends the session. You can add your custom message.
Session Timeout (Minutes)	Displays the value in minutes. The system ends a session during a regular clean up activity which runs at the interval of every 30 minutes, if the session does not end properly. The default value is 60 minutes. The minimum value is 30 minutes and maximum value is 1440 minutes.
Supported Locale	Displays the supported locales by the co-browse server. The default values are de, es, fr, it, ja, ko, pt, ru, zh_CN, pt_BR. The co-browse session server can support the following locales:
	• en_US: English
	• de: German
	• es: Spanish
	fr: French
	• it: Italian
	• ja: Japanese
	• ko: Korean
	• ru: Russian
	zh_CN: Chinese
	<ul> <li>pt_BR: Portuguese (Brazilian)</li> </ul>
Server Default Locale	Displays the default locale. You can configure the locale as per requirements. For example, if you want the co-browse session to support English only, you can set the default locale as en_US or you can change the preference of the language.
Enable Tokenless Access	Setting the value to true allows the client to request access to the resource end-points without any authorization token. The default value is true and allowed values are true and false.
Oceana Serviceability Feature Enable	Setting the value to true enables the monitoring feature and the snap-in's heartbeat and life cycle messages are displayed on Avaya Aura <sup>®</sup> System Manager. The default value is true and allowed values are true and false.
Use Security IP for Multi-node	If you are using a different node to connect to a co- browsing session, use the security IP address

Name	Description
	instead of the Collaborative Browsing Breeze Node token.
Collaborative Browsing Breeze Node Token name	Use the Collaborative Browsing Breeze Node token to redirect the requests to join the co-browsing session if you are using multiple nodes.

## Avaya Co-Browsing Snap-in database attributes

You must set the database attributes before you install the Avaya Co-Browsing Snap-in.

## 😵 Note:

The default values for the database attributes are for reference. You must create a database before you install the Avaya Co-Browsing Snap-in.

Name	Description	Default value
Enable JNDI	This value must be true if you use an external database.	The default value is false.
	This value must be false if you use the Intersystem cache database configuration.	
Database JNDI Name	The name of the external database. You must use the JNDI name created in <u>Creating JDBC Providers</u> <u>DataSources</u> on page 23.	This is a mandatory attribute if you are not using the Intersystem Cache Database.
	If you change the value, you must stop and start the co-browse service.	
Database Type	This is a mandatory attribute used to specify the external database type used for Co-Browsing.	NA
	You can enter one of the following values depending on the database you want to use:	
	• oracle	
	• sqlserver	
	• postgres	
	intersystemcache	
	If you change the value, you must stop and start the co-browse service.	
Database Dialect	The external database dialect.	This is a mandatory attribute.

Name	Description	Default value
	If you change the value, you must stop and start the co-browse service.	You can enter one of the following values depending on the database you use:
		Oracle:org.hibernate.dialect.Oracle1     0gDialect
		<ul> <li>SQL:org.hibernate.dialect.SQLServ erDialect</li> </ul>
		<ul> <li>Postgres: org.hibernate.dialect.PostgreSQLDi alect</li> </ul>
		<ul> <li>Intersystem Cache: org.hibernate.dialect.Cache71Dialec t</li> </ul>

## Important:

If you change any of the database attributes after installing Avaya Co-Browsing Snap-in, you must stop and start the co-browse service for the changes to take effect.

## **Omnichannel database configuration**

Use this configuration when:

- You set the JNDI attribute to False
- You use Interstate Cache Database

Name	Description	Default value
Database User Name	The username for external database. This is a mandatory attribute if you are using the Intersystem Cache Database.	NA
	If you change the value, you must reboot the cluster.	
Database Password	The password for external database. This is a mandatory attribute if you are using the Intersystem Cache Database.	NA
	If you change the value, you must reboot the cluster.	
Database Driver Class	The driver class name for external database. This is a mandatory attribute if you are	com.intersys.jdbc.CacheDr iver

Name	Description	Default value
	using the Intersystem Cache Database.	
	If you change the value, you must reboot the cluster.	
Database IP/FQDN	The IP address or FQDN for accessing external database. This is a mandatory attribute if you are using the Intersystem Cache Database.	NA
	If you change the value, you must reboot the cluster.	
Database Port	The port used for accessing external database. This is a mandatory attribute if you are using the Intersystem Cache Database.	The default port number is 1972.
	If you change the value, you must reboot the cluster.	
Database Name	The name of the external database. This is a mandatory attribute if you are using the Intersystem Cache Database.	The default name is COBROWSE.
	If you change the value, you must reboot the cluster.	
Secure InterSystem Cache	Setting this to true enables a secure connection to the Omnichannel database. If you set this to true, ensure you create the relevant certificates in System Manager and Omnichannel database.	The default value is false.

## Installing Avaya Co-Browsing Snap-in

## Before you begin

- Load the Avaya Co-Browsing Snap-in.
- Ensure that you know the cluster name to install the Avaya Co-Browsing Snap-in.
- Configure all database attributes in the service global tab using System Manager.

## Procedure

1. On the System Manager web interface, click Elements > Avaya Breeze<sup>™</sup> > Service Management > Services.

2. In the services name list, select the Avaya Co-Browsing snap-in and then click Install.

The system displays a list of cluster names in the Confirm Install services dialog box.

3. Select the cluster name to install the Avaya Co-Browsing Snap-in, and then click **Commit**.

The system starts installing the service and changes the state of the service to Installing. After installation, the system changes the state to Installed.

## Starting a service

## About this task

You can now start a service without rebooting the cluster.

## Procedure

- 1. On the System Manager web interface, click Elements > Avaya Breeze<sup>™</sup> > Service Management > Services.
- 2. Select the service that you want to start.
- 3. Click Start.

The system starts the selected service.

## Stopping a service

## About this task

You can now stop a service without rebooting the cluster.

## Procedure

- 1. On the System Manager web interface, click **Elements** > **Avaya Breeze**<sup>™</sup> > **Service Management** > **Services**.
- 2. Select the service that you want to stop.
- 3. Click Stop.

The system stops the selected service.

## Verifying a Avaya Co-Browsing Snap-in deployment Procedure

- 1. Open a web browser.
- 2. To check the query management REST API, type the following URL:

https://<Cluster\_IP>/services/CoBrowse/v1/server/status

where <*Cluster\_IP*> is the IP address of the Avaya Co-Browsing Snap-in cluster where the service that you want to verify is running.

## 😵 Note:

For a single Avaya Breeze<sup>™</sup> instance, provide the security IP address instead of cluster IP.

```
The system displays the following message: {"statusCode":"200",
"acsResult":"success", "acsResponse":"Successfull", "errorCode":"",
"errorMessage":"", "options":null}
```

## Editing attributes for Avaya Co-Browsing Snap-in

## Procedure

- 1. On the System Manager web interface, click Elements > Avaya Breeze<sup>™</sup>.
- 2. On the Server Administration page, click **Configuration > Attributes**.

The system displays the Attributes Configuration page.

- 3. Configure attributes on the following tabs:
  - Service Clusters: The attributes are used by all Avaya Co-Browsing Snap-ins that are part of the cluster that you select.
  - Service Globals: The attributes are used by all occurrences of the Avaya Co-Browsing Snap-ins except when overridden by attributes administered for a specific cluster.
  - 😵 Note:

After installing snap-in, the **Effective value** for all attributes in **Service Clusters** are same as **Service Globals**. If you change the attribute value in **Service Globals**, then the value in **Service Clusters** changes automatically. To customize a specific attribute for a specific cluster, select the cluster from the drop-down, select the service as CoBrowse, and then select the **Override default** check box in **Service Clusters** for the specific attribute.

- 4. To configure attributes for Service Clusters, click the Service Clusters tab.
  - a. In the **Cluster** field, select the cluster where the Snap-in is installed.
  - b. In the Service field, select the service name as CoBrowse.

The system displays a list of attributes that you can configure.

- c. In the **Override Default** column, specify the attributes by selecting the corresponding check box.
- d. (Optional) In the Effective Value column, change the value of the attributes.

You can always restore the default by clearing the **Override Default** box.

5. Click **Commit** to save the configuration.

## Upgrading Avaya Co-Browsing Snap-in

## **Upgrade overview**

To upgrade Avaya Co-Browsing Snap-in service in Avaya Breeze<sup>™</sup>, you must install a new version of the Snap-in service.

When you upgrade the Avaya Co-Browsing Snap-in SVAR, the system does not remove the Avaya Co-Browsing Snap-in that is already deployed.

You can upgrade by using the preferred version or the latest version option.

## **Preferred version**

When you deploy a new version of the Avaya Co-Browsing Snap-in service, the previous version of the service continues servicing the REST requests. To bring the newly deployed SVAR into service, you must set the newer version as the preferred version on the **Avaya Breeze<sup>™</sup>** > **Service Management** > **Services** page. For more information, see <u>Setting Preferred Version</u> on page 37.

## Latest version

When you deploy a new version of the Avaya Co-Browsing Snap-in service, the new version of the Snap-in service starts servicing the REST requests automatically.

When you deploy a Avaya Co-Browsing Snap-in service in a new Avaya Breeze<sup>™</sup> instance, the service is set to **latest** by default.

If you do not set any version as the preferred version, the system uses the latest version value.

When a version is set as the preferred version, the system does not give the option to set the latest version in the **Services** page.

## Upgrading Avaya Co-Browsing Snap-in services

## Procedure

- 1. On the System Manager web interface, click Elements > Avaya Breeze<sup>™</sup> > Service Management > Services.
- 2. Make a note of the existing attribute values of the old Co-Browse service before you upgrade.
- 3. Uninstall and delete the old Co-Browse service.
- 4. Ensure that the service name is "CoBrowse" by navigating to **Attributes > Service Global**.
- 5. On the **Services** page, click **Load**.
- 6. Click Browse next to Local PC to locate the latest Avaya Co-Browsing Snapin<*CoBrowse-x.y.0.0.zzzzz*>.svar, where x, y, and z denotes the Co-Browsing Snap-in version.

- 7. Click Open.
- 8. In the Load Service window, click **Load** to load the Avaya Co-Browsing Snap-in service.
- 9. On the End User License Agreement (EULA) page, click Accept.

The Service Management page displays the service with the LOADED state.

- 10. In the left navigation pane, click **Attributes** > **Service Global** and select "CoBrowse" service.
- 11. In the left navigation pane, click **Cluster Administration**.
- 12. For the cluster that you want to upgrade, select **Deny New Service** from the **Cluster State** drop-down.
- 13. To upgrade to the latest version of the Avaya Co-Browsing Snap-in service, perform one of the following steps:
  - On the **Services** page, select and install the latest version of the CoBrowse service.
  - On the **Cluster Administration** page, edit the cluster to select and commit the latest version of the Avaya Co-Browsing Snap-in service.

The Services page displays the service with the INSTALLED state.

- If you set the preferred version option for a service, the service continues to service the requests. The new service version comes in to service only after you set the new version as the preferred version option in the **Services** page.
- If you do not set the preferred version option for the service in the cluster, the newly deployed version comes in to service after successful deployment. However, it is advisable to set the preferred version for the newly installed service to avail the features of that release.
- 14. Verify if the services are installed successfully. For more information, see *Verifying a Avaya Co-Browsing Snap-in deployment*.
- 15. For the upgraded cluster, select **Accept New Service** state from the **Cluster State** dropdown.
- 16. Verify the co-browsing deployment functionality after the upgrade.
- 17. Uninstall the previous version of the service.
- 18. Delete the previous version of the service.

### **Related links**

Setting the preferred version for upgrades on page 37

## Setting the preferred version for upgrades

## Before you begin

Install the Snap-in service on Avaya Breeze<sup>™</sup>.

## Procedure

- 1. On the System Manager web interface, click **Elements** > **Avaya Breeze™** > **Service Management** > **Services**.
- 2. Select the service that you want to set as the default version.
- 3. Select Set Preferred Version.

The system displays the list of clusters.

- 4. Select the clusters for which you want to set the preferred version.
- 5. Click Commit.

The **Preferred Version** column displays the clusters for which you have set the preferred version.

6. Verify whether the updated service can service requests successfully. For more information, see *Verifying Avaya Co-Browsing Snap-in deployment*.

## Uninstalling and deleting Avaya Co-Browsing Snap-in

## Avaya Co-Browsing Snap-in uninstallation overview

The options are:

- Uninstall a service Snap-in: When you uninstall a service, the system does not remove the attributes from the Avaya Breeze<sup>™</sup> Postgres database. For more information, see <u>Uninstalling Avaya Co-Browsing Snap-in</u> on page 38.
- Delete a service Snap-in: When you delete a service, the system removes the attributes from the Avaya Breeze<sup>™</sup> Postgres database. For more information, see <u>Deleting Avaya Co-</u> <u>Browsing Snap-in</u> on page 39.

## Uninstalling Avaya Co-Browsing Snap-in

## About this task

When you uninstall a service, the system removes the attributes from the Avaya Breeze<sup>™</sup> server.

### Procedure

- 1. On the System Manager web interface, click **Elements** > **Avaya Breeze**<sup>™</sup> > **Service Management** > **Services**.
- 2. On the Services page, select the check box for **CoBrowse**. Ensure that you select the correct version.

- 3. Click Uninstall.
- 4. Select the **Cluster Name** from which you want to uninstall the **CoBrowse** service.
- 5. Click Commit.

## Next steps

To verify that the service is uninstalled, click **Elements** > **Avaya Breeze**<sup>™</sup> and perform the following steps:

- 1. On the Services page, verify that the **State** of the service is **Loaded**.
- 2. On the Cluster Administration page, perform the following steps:
  - a. Click Show.
  - b. Click the **Avaya Breeze**<sup>™</sup> server, and verify that the Service Status page does not display the uninstalled service.

## Deleting Avaya Co-Browsing Snap-in

## Before you begin

Ensure that the Avaya Co-Browsing Snap-in is in Loaded state.

### About this task

When you uninstall a service, the system removes the attributes from the Avaya Breeze<sup>™</sup> server.

### Procedure

- 1. On the System Manager web interface, click **Elements** > **Avaya Breeze**<sup>™</sup> > **Service Management** > **Services**.
- 2. On the Services page, perform the following steps:
  - a. Verify that the State of the service is Loaded.
  - b. Select the service that you want to delete, and then click **Delete**.
  - c. In the dialog box, select the **Please Confirm** check box.
  - d. Click Delete.

### Next steps

To verify that the service is deleted, click **Elements** > **Avaya Breeze**<sup>™</sup>, and perform the following steps:

- 1. Click Elements > Avaya Breeze<sup>™</sup> > Service Management > Services.
- 2. Verify that the Services page does not display the deleted service.

# **Chapter 6: Security overview**

Avaya Co-Browsing Snap-in utilizes Avaya Breeze<sup>™</sup> to provide all security configurations to access all Avaya Breeze<sup>™</sup> services. Avaya Breeze<sup>™</sup> provides configuration for HTTPS, Mutual TLS (Client Certificate Challenge), Cross Origin Resource Sharing (CORS), Whitelists, and Trust Certificates. In addition, System Manager provides a flexible platform for administering certificates and authorities.

For more information about the security configuration, see the *Avaya Breeze*<sup>™</sup> and *System Manager* product documentation.

#### **Related links**

<u>Selecting TLS version for a snap-in service</u> on page 40 <u>Certificate-based authentication overview</u> on page 41 <u>Data security</u> on page 42 <u>Port utilization</u> on page 42

## Selecting TLS version for a snap-in service

### About this task

Avaya Breeze<sup>™</sup> supports selection of minimum TLS version for SIP and HTTPS service in each cluster. By default, Avaya Breeze<sup>™</sup> uses the value of the **Minimum TLS Version** field set in System Manager configuration. If the value of the **Minimum TLS Version** field is TLSv1.1, Avaya Breeze<sup>™</sup> uses TLSv1.2. If the value of the **Minimum TLS Version** field is SSLv3, Avaya Breeze<sup>™</sup> uses TLSv1.0.

### Procedure

- 1. On the System Manager web console, click **Elements > Avaya Breeze**.
- 2. In the left navigation pane, click Cluster Administration.
- 3. On the Cluster Administration page, select the check box for the cluster and then click **Edit**.
- 4. On the Cluster Editor page, perform the following steps:
  - a. Click the Services tab.

The system displays the list of services installed in the cluster.

b. Select the checkbox next to the snap-in service for which you want to select the TLS version.

c. From the Select TLS Version for the Selected Snap-in(s), select the relevant TLS version.

The selected TLS version appears in the TLS version column corresponding the service snap-in.

- 5. Click Commit.
- 6. Reboot the cluster for the changes to take effect.

#### **Related links**

Security overview on page 40

## **Certificate-based authentication overview**

For Avaya Co-Browsing Snap-in certificate-based authentication, perform the following procedures on the System Manager web interface:

- Configure client certificate challenge through the Avaya Breeze<sup>™</sup> > Configuration > HTTP Security page.
- Create a client keystore.
- Download the Avaya Breeze<sup>™</sup> trusted certificate from System Manager.
- Authenticate browsers.

Ensure that the client applications that access Avaya Co-Browsing Snap-in operations provide the location and credentials of their client certificate and trusted certificate to establish a secure session with the Avaya Co-Browsing Snap-in cluster.

For more information, see the Avaya Breeze<sup>™</sup> and System Manager product documentation.

## **Cross Origin Resource Sharing**

Cross Origin Resource Sharing (CORS) enables access to Avaya Co-Browsing Snap-in requests that originate from specific domains. Cross-origin resource sharing allows JAVA scripts from an application server that can send HTTPS requests to an Avaya Breeze<sup>™</sup> instance. The configuration is available on the **Avaya Breeze<sup>™</sup> > Configuration > HTTP Security > HTTP CORS** page.

If the originator is xyz.com, then add xyz.com as an origin in the CORS list. If the origin is <IP address:port>, then add <IP Address:port> as an origin in the CORS list.

If the originator is IP Address, then add IP Address as an origin in the CORS list.

For more information, see the Avaya Breeze<sup>™</sup> product documentation.

😵 Note:

If you use a custom web client application, and enable the client certificate challenge, the web clients cannot authenticate the client certificate through Javascript, that is, Ajax calls. The browser and javascript layers are not connected. Therefore, the system does not send the required client certificate.

## Whitelist

Avaya Breeze<sup>™</sup> accepts HTTPS requests only from the IP Addresses listed in the table. If you do not select this (whitelist enable checkbox), Avaya Breeze<sup>™</sup> accepts any HTTPS request that passes the optional client certificate challenge.

#### **Related links**

Security overview on page 40

## **Data security**

The customer can ensure data privacy and secure co-browsing by using security measures such as hiding sensitive information, preventing certain actions, and hiding certain elements. Depending on the legal and location-specific requirements, the customer can apply data masking to certain fields such as Social Security Number or credit card number. The customer can also block certain actions so that the agent does not submit any information on behalf of the customer. For more information, see Data masking in *Avaya Co-Browsing Snap-in Developer and API Reference* guide.

### **Related links**

Security overview on page 40

## Port utilization

For Avaya Co-Browsing Snap-in port information, see the Avaya Breeze<sup>™</sup> 3.5 x Port Matrix document under the Security Policies and Support section in the Avaya Product Port Matrix Documents link at <u>https://support.avaya.com/security</u>.

#### **Related links**

Security overview on page 40

# **Chapter 7: Performance**

## **Capacities and scalability**

Avaya Co-Browsing Snap-in supports 400 concurrent sessions on a two-node Avaya Breeze<sup>™</sup>, and supports 1200 sessions per hour.

Deployment	Number of nodes	System Configuration Per Node	Average. Concurrent Session	Average. Sessions Per Hour
Avaya Breeze <sup>™</sup> nodes	2	4vCPUs, 8 GB RAM, and 100 GB HDD	400	3180

## Note:

- One co-browse node supports 200 sessions.
- If your database size goes beyond 12 GB, you must purge the database. You can use the relevant purging procedures for the respective database. Ensure that you delete or purge the data from the cb\_cobrowsesessiontable after you finish deleting or purging data from all other tables.

# **Chapter 8: Reports**

## **Reports**

The supported browsers for reports are Internet Explorer 11, Google Chrome, and Mozilla Firefox. The reports you generate are for reference only and you can generate and view three types of reports:

- Session summary report
- Agent summary report
- · Customer summary report

### 😵 Note:

The report fetches 2000 records at a time. To refine the search, use the search criteria on the Home page. If the report fetches more than 2000 records at a time and displays an error message, you must refine the search criteria. Use the **Refresh** button to view the changes done during the session.

You can generate all reports based on the following search criteria on the respective home page:

Field	Description
State	To search records based on the state. The states can be:
	<ul> <li>All: When you choose this option, the system displays all open and closed sessions.</li> </ul>
	😒 Note:
	In case of All sessions, the system displays all open sessions with the start date. For closed sessions, the system displays sessions with the start and end date.
	<ul> <li>Open: When you choose this option, the system displays all open and active sessions.</li> </ul>
	🗴 Note:
	For Open sessions, the system searches for sessions with the start date only.
	<ul> <li>Close: When you choose this option, the system displays all closed sessions.</li> </ul>

Table continues...

Field	Description
	For example , you can search records for all open sessions.
Start Date	To search records based on the start date and time of the session. The start date and time format is as per the ISO8601 format. For example, 2015-04-19T12:59:23Z
End Date	To search the records based on the end date and time of the session. The end date and time format is as per the ISO8601 format. For example, 2015-04-19T12:59:23Z
Agent Name	To search records based on a specific agent. For example, you can filter records for agent named "ABC". The system displays all reports where the name is equal to "ABC" or contains "ABC".
Customer Name	To search records based on a specific customer. For example, you can filter records for customer named "XYZ". The system displays all reports where the name is equal to "XYZ" or contains "XYZ".
Submit	To generate the report based on the filters you select.

You can also enable the filtering of the records within the reports. If you select more than one fields to filter the records, the condition is AND. For example, if you filter records based on agent name and session status, the system displays only those records that match both the filter criteria. You can use asterisk ("\*") to filter records using fuzz-match. For example, if you specify "\*us\*" in the **Intitiated By** field, then the system displays all records that contain "us".

You can sort each column or hide a column in the report. If you sort the report on more than one columns, then the condition is AND. For example if you sort the first name as ascending and last name as descending, then the system sorts the first name as ascending and then last name as descending.

## Session Summary report

The report gives information about all sessions initiated by a customer and an agent. The following table lists all the columns:

Field	Description
Session Key	Displays the unique key used to identify a session. The session key is system generated.
	You can click the session key to view all information related to the specific session:
	<ul> <li>Action By: Displays whether the action was performed by the agent or the customer.</li> </ul>
	Action: Displays all actions performed by either the agent or the customer.
	<ul> <li>Timestamp: Displays the timestamp when the action was performed by the agent or the customer.</li> </ul>
Customer Name	Displays the name of the customer who initiated a session or joined a session.
Agent Name	Displays the name of the agent who initiated a session or joined a session.

Table continues...

Field	Description
Session Status	Displays the status of the session whether it is closed, idle, waiting for customer, waiting for agent, or in progress.
Duration	Displays the duration of the session in seconds, that is, the time between the start of the session and stop of the session.
Start	Displays the timestamp when the session started.
Stop	Displays the timestamp when the session ended.
Initiated By	Displays whether the session is started by an agent or customer.
Ended By	Displays whether the session is ended by an agent or customer.
Events	Displays all the events for the session. You can view all the events performed by the agent for the duration of the session. The events details are:
	• Event type: Displays the type of activity performed. For example, if you enter a value in a field, the event type is text.
	• Event name: Displays the actual activity performed. For example, if you enter a value in a field, the event name is keyup.
	• Element ID: Displays the field which was changed. For example if you enter a value in the first name field, the element ID is first_name.
	• Element value: Displays the actual value entered in the field. For example if you enter a value in the first name field as Joe, the element value is Joe.
	CSS Selector: Displays either the CSS selector specified or the element ancestors.
	• Event By: Displays whether the activity was performed by an agent or customer. For example if the Agent entered a value in a field, the event by is Agent.
	• Timestamp: Displays the time when the activity is performed. For example 15:00:30.

Icon	Description
=	To hide columns in the report. The columns with a check mark are displayed in the report. You can also export the report columns. You can export the columns as:
	<ul> <li>Export all data as csv: The system exports all the columns in a csv file.</li> </ul>
	<ul> <li>Export visible fields as csv: The system exports only the visible columns in a .csv file. If you hide certain columns, the system does not export the hidden columns.</li> </ul>
	• Export visible data as pdf: The system exports only the visible columns in a .pdf file. If you hide certain columns, the system does not export the hidden columns.

Icon	Description
	🐼 Note:
	You can export only selected rows from the report in a csv. If you select specific rows, the system displays one additional options for export:
	• Export visible data as pdf: The system exports only the selected rows in a .pdf file. If you hide certain columns, the system does not export the hidden columns.

## Agent Summary report

The report gives information about all sessions initiated by an agent. The following table lists all the columns:

Field	Description	
Agent Name	Displays the name of the agent who initiated a session.	
Session Key	Displays the unique key used to identify a session. The session key is system generated.	
Customer Name	Displays the name of the customer who initiated a session or joined a session.	
Session Status	Displays the status of the session whether it is closed, idle, waiting for customer, or in progress.	
Agent Device	Displays the device the agent used to initiate the session.	
	Note:	
	If the agent device is running Internet Explorer 10 in compatibility view, then the system displays the agent device as Internet Explorer 7.0.	
Duration	Displays the duration of the session in seconds, that is, the time between the start of the session and stop of the session.	
Start	Displays the timestamp when the session started.	
Stop	Displays the timestamp when the session ended.	
Agent Last Activity Time	Displays the timestamp when the agent performed the last activity.	
Initiated By	Displays whether the session is started by an agent or customer.	
Ended By	Displays whether the session is ended by an agent or customer.	

Icon	Description
	To hide columns in the report. The columns with a check mark are displayed in the report. You can also export the report columns. You can export the columns as:
	<ul> <li>Export all data as csv: The system exports all the columns in a csv file.</li> </ul>

## Reports

Icon	Description
	• Export current data as csv: The system exports only the visible columns in a .csv file. If you hide certain columns, the system does not export the hidden columns.
	• Export current data as pdf: The system exports only the visible columns in a .pdf file. If you hide certain columns, the system does not export the hidden columns.
	😵 Note:
	You can export only selected rows from the report in a csv. If you select specific rows, the system displays one additional options for export:
	• Export selected data as csv: The system exports only the selected rows in a .csv file. If you hide certain columns, the system does not export the hidden columns.

## **Customer Summary report**

The report gives information about all sessions initiated by a customer. The following table lists all the columns:

Field	Description
Customer Name	Displays the name of the customer who initiated a session.
Session Key	Displays the unique key used to identify a session. The session key is system generated.
Agent Name	Displays the name of the agent who initiated a session or joined a session.
Session Status	Displays the status of the session whether it is closed, idle, waiting for customer, or in progress.
Customer Device	Displays the device the customer used to initiate the session.
	😵 Note:
	If the customer device is running Internet Explorer 10 in compatibility view, then the system displays the customer device as Internet Explorer 7.0.
Duration	Displays the duration of the session in seconds, that is, the time between the start of the session and stop of the session.
Start	Displays the timestamp when the session started.
Stop	Displays the timestamp when the session ended.
Customer Last Activity Time	Displays the timestamp when the customer performed the last activity.
Initiated By	Displays whether the session is started by an agent or customer.
Ended By	Displays whether the session is ended by an agent or customer.

Icon	Description
≡	To hide columns in the report. The columns with a check mark are displayed in the report. You can also export the report columns. You can export the columns as:
	<ul> <li>Export all data as csv: The system exports all the columns in a csv file.</li> </ul>
	• Export current data as csv: The system exports only the visible columns in a .csv file. If you hide certain columns, the system does not export the hidden columns.
	• Export current data as pdf: The system exports only the visible columns in a .pdf file. If you hide certain columns, the system does not export the hidden columns.
	😸 Note:
	You can export only selected rows from the report in a csv. If you select specific rows, the system displays one additional options for export:
	• Export selected data as csv: The system exports only the selected rows in a .csv file. If you hide certain columns, the system does not export the hidden columns.

# **Chapter 9: Troubleshooting**

## **Failed installation**

If the installation of Avaya Co-Browsing Snap-in fails:

- Ensure you have configured all database related attributes.
- · Check any existing alarms for service level alarms.

You must make the necessary changes to the attributes from System Manager or handle the alarms and then restart the **Avaya Breeze**<sup>™</sup> server, or the WebSphere node for the changes to take effect.

## Fails to run after database reboot

#### Avaya Co-Browsing Snap-in is in failed state after Oracle database reboot

Service install status in Avaya Breeze™	Avaya Co-Browsing snap-in is in "failed to run" state after Oracle database reboot.		
Log file message text	ORA-01017: invalid username/password; logon denied		
Log file	CoBrowse.log		

#### **Problem description**

Avaya Co-Browsing Snap-in changes over to "failed to run" state if you reboot the Oracle database.

#### Solution

- 1. Unlock the Oracle user using *oracle client* or any other utility. For example, **ALTER USER USER USER USER INTER USER**
- 2. In System Manager, retype the Oracle password under the **Home** > **Elements** > **Avaya Breeze**<sup>™</sup> > **Configuration** > **JDBC Sources**.
- 3. Click **Commit**.
- 4. Reboot the Avaya Breeze<sup>™</sup> server instances via System Manager.

## Alarms

## Overview

Avaya Co-Browsing Snap-in generates alarms when any error occurs. The system sends a selfservice email to the configured email address.

You can view, search, filter, export, and configure alarms from the System Manager web interface. Alarm information is available on the **Services** > **Events** > **Alarms** page in System Manager. For more information, see *Maintaining and Troubleshooting Avaya Aura*<sup>®</sup> *Avaya Breeze*<sup>™</sup> at <u>https://</u> <u>support.avaya.com/</u>.

## Alarm severities

Severity	Description
Critical	Critical alarms identify failures that are causing the service to stop. These alarms require immediate action.
Major	Major alarms identify failures that are causing a critical degradation of service. These alarms require immediate attention.
Minor	Minor alarms identify failures that are causing service degradation. These failures do not cause the system to be inoperable.

## Alarm status

Status	Description
Raised	An alarm has been generated. Software recovery actions have failed to correct the problem.
Cleared	The problem has been fixed and the alarm has been cleared. The alarm can be auto clear or you might have to clear the alarm manually.

## Attribute value failed to initialize

- Alarm text Attribute Service initializing is failed
- Alarm ID CoBrowse ATTR ERR 001
- Alarm level Minor

**Trigger component** While installing the cobrowse service, if attribute service is unable to get the data or registration fails with Avaya Breeze<sup>™</sup>

### **Problem description**

The attribute service fails to initialize as the attribute service is unable to get the data or registration fails with Avaya Breeze<sup>M</sup>.

## Solution

- 1. Check the process status of Avaya Breeze<sup>™</sup>.
- 2. Start the particular process if the process is in failed state.

## Invalid value reported for attribute

Alarm text	Invalid value value as {2}	reported	of	attribute:	{1}.	Set	default
Alarm ID	CoBrowse_ATTR	_ERR_002					

Alarm level Minor

**Trigger component** The administrator sets an invalid attribute value in System Manager.

## **Problem description**

The system reports an invalid attribute value from System Manager. For example string value for Inactivity timeout.

## Solution

Ensure that the attribute has a valid and correct value in System Manager.

## Avaya Breeze<sup>™</sup> license service failed to initialize

Alarm text	License Service initializing is failed
Alarm ID	CoBrowse_LIC_ERR_003
Alarm level	Minor

### **Problem description**

The system logs the license service in error mode, if the licenser service is unable to get the service license data from Avaya Breeze<sup>™</sup> while installing Avaya Co-Browsing Snap-in.

## Solution

Check Avaya Breeze<sup>™</sup> licenser service.

## Server unable to reach Cobrowse database

Alarm text	Cobrowse database may be down or database related attributed might be configured incorrectly
Alarm ID	CoBrowse_DB_ERR_001
Alarm level	Critical
Trigger component	<ul> <li>Case1: The cobrowse service unable to connect the cobrowse database.</li> </ul>
	<ul> <li>Case2: The cobrowse service is running but the cobrowse database in unavailable.</li> </ul>

## **Problem description**

The system can raise this alarm in two cases:

- Case1: The cobrowse service unable to connect the cobrowse database during the installation of the cobrowse service.
- Case2: The cobrowse service is running but the cobrowse database in unavailable.

### Solution

- 1. Ensure you have configured a correct value for the database attribute on System Manager.
- 2. Ensure that the cobrowse database is available and can communicate with the cobrowse server.

## Unable to load localization property

### **Problem description**

Alarm text	Unable to load localization property	
Alarm ID	PROP_ERR_001	
Alarm level	Critical	
Trigger component		
Cause		
The system logs the error when the properties file is not defined correctly.		

## Solution

1. On the System Manager Home page, in **Elements**, select **Avaya Breeze**<sup>™</sup> > **Configuration** > **Attributes**.

- 2. Click the Service Globals tab.
- 3. In **Service**, click the service that contains the attributes that you want to configure.

The table displays all attributes that you can configure for a CoBrowse service with the description of each attribute.

- 4. Click Server Default Locale and do the following:
  - a. Click Override Default.
  - b. In the Effective Value field, enter the new value or string.
- 5. Click **Commit** to save your changes.

The cluster level service attributes persist after an uninstall from the cluster. The values are retained for a subsequent installation, so that you do not have to re-configure all attributes when changing service versions.

## **Related links**

Runtime service configuration attributes on page 29

## **Oceana Monitor service and CoBrowse service messages**

Message	Level	Description
OceanaMonitorService heartbeat started	INFO	Indicates that the heartbeat task has started
Platform details for node successfully written	INFO	Indicates that the platform details
Attribute Update: Authorization Required to view Monitor output set to ' <value>'</value>	INFO	Displays if the 'Oceana token Serviceability Security' has been updated in System Manager.
OceanaMonitorService listening for attribute changes	INFO	Indicates that the internal attribute listener is working.
OceanaMonitorService service started	ОК	Indicates the the OceanaMonitorService has started successfully.
OceanaMonitorService attribute listener stopped	INFO	Indicates that the internal attribute listener is working.
OceanaMonitorService service destroyed	INFO	Indicates the OceanaMonitorService has been successfully uninstalled or shutdown.

### Oceana Monitor service messages

#### CoBrowse service messages

Message	Level	Description
CoBrowse Service Starting	INFO	CoBrowse service installation is in progress.

Table continues...

Message	Level	Description
CoBrowse DB initialization successfully	INFO	CoBrowse service successfully connected with the database during start up.
CoBrowse license service initialization successfully	INFO	Verified that valid CoBrowse svar installed.
CoBrowse Service Started	OK	CoBrowse Service ready to accept the request.
CoBrowse Service Stopped	INFO	CoBrowse service undeployed successfully.
CoBrowse license service initialization failed	WARN	Some issue with CoBrowse loaded svar. Avaya Breeze <sup>™</sup> API failed to verify the service attributes.
Co_Browse attribute " %attributeName% new value	ОК	Notification received when the below mentioned attributes will change with valid value.
changed as %attributeValue%		CB.INACTIVE_TIMEOUT
		CB.INACTIVE_TIMEOUT_MESSAGE
		CB.SESSION_TIMEOUT
Co_Browse attribute %attributename% reverted with	WARN	Below attributes are configured with wrong value from System Manager.
default value		CB.INACTIVE_TIMEOUT
		CB.INACTIVE_TIMEOUT_MESSAGE
		CB.SESSION_TIMEOUT
CoBrowse DB initialization failed	FATAL	CoBrowse service unable to connect to the database during start up. You need to verify the database server status and verify the database attributes of CoBrowse service. CoBrowse service status shows as "Installing" for couple of minute and finally goes to in failed state in System Manager.

## Logging

## Avaya Co-Browsing Snap-in log files

Avaya Breeze<sup>™</sup> provides a separate log file for Avaya Co-Browsing Snap-in. If more than one version of Avaya Co-Browsing Snap-in is installed, all logs gets stored in the same file.

## 😵 Note:

If you set the logging on the Avaya Breeze<sup>™</sup> to OFF, the log level for Avaya Co-Browsing Snap-in is reset to INFO level. If you want to investigate the logs, select the logging level to Finer or Finest.

The following table describes the log name and location of the logs related to Avaya Co-Browsing Snap-in:

Log Name	Location	Description
Service installation/deployment logs	/var/log/Avaya/sm/asm.log	Validates the snap-in service installation/ deployment logs.
Service logs	/var/log/Avaya/services/ CoBrowse/CoBrowse.log	Validates the snap-in service logs.
Alarm logs	/var/log/Avaya/services/ event.log	Validates the snap-in alarm logs.

You can modify the logging level for Collaboration Designer snap-ins on the System Manager Avaya Breeze<sup>™</sup> login page. You can view the details of each log, perform a search for logs, and filter specific logs. Use the/opt/avaya/contrib/bin/ce tool to enter commands for viewing logs, changing logs configuration.

For more information, see Maintaining and Troubleshooting Avaya Breeze<sup>™</sup>.

# **Chapter 10: Resources**

## Localization

Avaya Co-Browsing Snap-in supports localization for G14 languages. The agent or customer can select the preferred languages during session initiation and view the online help in each language.

## 😵 Note:

Sample client and reporting are not localized and are available only in English. Avaya Co-Browsing Snap-in supports localization of server-side error messages only.

Online Help on sample client application is deployed in English. For deploying localization in other languages, you must configure the global attributes in the Runtime service configuration attributes table.

For more information on configuring localization attributes, see the Support Locale and the Server Default Locale rows in the "Runtime service configuration attributes" topic.

The respective locations for localized files are:

- Localized help files: cobrowse\_test\_app\cobrowse\help\
- Agent and client zip files: cobrowse test app\cobrowse\help\

In the default setup of Avaya Co-Browsing Snap-in, English localized files are located at:

- Client: cobrowse\_test\_app\cobrowse\customer\CoBrowseOLHCustomer\
- Agent: cobrowse test app\cobrowse\agent\CoBrowseOLHAgent\

To test the localized help files, depending on your preferred language, you must extract the zip files from cobrowse test app\cobrowse\help\ to the respective client or agent folder.

#### **Related links**

Configuring global attributes on page 29

## **Documentation**

See the following related documentation at <u>http://support.avaya.com</u>.

Title	Description	Audience
Avaya Co-Browsing Snap-in Release Notes	This document contains Avaya Co-Browsing Snap-in information that is not included in the Snap-in documentation. This document highlights known issues about Avaya Co-Browsing Snap-in with workarounds that are available.	Avaya Professional Services Implementation engineers
Avaya Co-Browsing Snap-in Developer and API Reference	This document provides a client library for users to write software that interacts with a deployed Avaya Co-Browsing Snap-in system.	Avaya Professional Services Implementation engineers Software developers
Avaya Co-Browsing Snap-in Database dictionary	This document provides the information about database schema.	Avaya professional services
Maintaining and Troubleshooting Avaya Breeze <sup>™</sup>	This document contains procedures to identify and troubleshoot problems for Avaya Breeze <sup>™</sup> .	Avaya Professional Services Implementation engineers
Avaya Breeze™ Overview and Specification	This document describes tested product characteristics and capabilities, including product overview and feature descriptions, interoperability, performance specifications, security, and licensing requirements.	Avaya Professional Services Implementation engineers Services and Support personnel System administrators
Administering Avaya Breeze™	This document provides the procedures to administer and configure Avaya Breeze <sup>™</sup> services.	Services and Support personnel System administrators
Administering Avaya Aura <sup>®</sup> System Manager	This document provides the procedures to administer and configure System Manager.	Services and Support personnel System administrators

## Training

The following courses are available on the Avaya Learning website at <u>www.avaya-learning.com</u>. Enter the course code in the **Search** field, and click **Go** to search for the course.

Course code	Course title	
2518W Introducing Avaya Co-Browsing Snap-in 3.0		
3420W Avaya Oceana Solutions Design Fundamentals		

Table continues...

Course code	Course title
3470T	Avaya Oceana Solutions Design Fundamentals APDS Online Test

## **Viewing Avaya Mentor videos**

Avaya Mentor videos provide technical content on how to install, configure, and troubleshoot Avaya products.

### About this task

Videos are available on the Avaya Support website, listed under the video document type, and on the Avaya-run channel on YouTube.

#### Procedure

- To find videos on the Avaya Support website, go to <u>http://support.avaya.com</u> and perform one of the following actions:
  - In Search, type Avaya Mentor Videos to see a list of the available videos.
  - In **Search**, type the product name. On the Search Results page, select **Video** in the **Content Type** column on the left.
- To find the Avaya Mentor videos on YouTube, go to <u>www.youtube.com/AvayaMentor</u> and perform one of the following actions:
  - Enter a key word or key words in the **Search Channel** to search for a specific product or topic.
  - Scroll down Playlists, and click the name of a topic to see the available list of videos posted on the website.

😒 Note:

Videos are not available for all products.

## Support

Go to the Avaya Support website at <u>http://support.avaya.com</u> for the most up-to-date documentation, product notices, and knowledge articles. You can also search for release notes, downloads, and resolutions to issues. Use the online service request system to create a service request. Chat with live agents to get answers to questions, or request an agent to connect you to a support team if an issue requires additional expertise.

# **Appendix A: About sample reference client**

You can use the sample reference client to initiate co-browse sessions. The sample client does not support control keys and hot keys for navigation.

## 😵 Note:

The context-sensitive menu of the sample client is browser-dependent. If the agent and customer are not using the same browser, they might not always see the same context-sensitive menu.

### Agent initiated session

An agent can initiate a session or join a live session. For an agent initiated session, the system generates a session key and displays the session key on screen. The customer must use the key to join the session. An agent can initiate a session and cancel the session even after the session key is generated. The system cancels the session key and the agent can start a new session. An agent can request control from the customer. When an agent requests control, the customer can allow or deny sharing the control. The agent can logout from the session. If the agent, that is, the session owner is idle for some time, then the system automatically closes the session. You can configure the inactivity time out. The default value is 2 minutes.

### **Customer initiated session**

A customer can initiate a session or join a live session. For customer initiated session, the system generates a session key and displays the session key on screen. The agent must use the key to join the session. The customer can pause and resume the current session. If the customer is in control of the session, the customer can pause a session. Only when the customer resumes the session, the changes made are synchronized and visible to the agent. The customer can stop the session. If the customer, that is, the session owner is idle for some time, then the system automatically closes the session. You can configure the inactivity time out. The default value is 10 minutes. While the agent is controlling the session, the customer can revoke the access at any point of time.

#### **Related links**

<u>Configuring files for agent JavaScript SDK on Tomcat server</u> on page 61 <u>Configuring files for customer JavaScript SDK on Tomcat server</u> on page 61 <u>Configuring files for Reports SDK on Tomcat server</u> on page 62

# Configuring files for agent JavaScript SDK on Tomcat server

## Before you begin

Get the following information from your administrator:

- Network Parameters: Avaya Breeze<sup>™</sup> IP or FQDN, port, and TLS on or off
- Certificate for TLS connections to Avaya Breeze<sup>™</sup>

## Procedure

- 1. Download the cobrowse\_test\_app.zip file.
- 2. Unzip the cobrowse test app.zip file to webapps/cobrowse test app directory.
- 3. Configure the properties in the agent file cobrowse\_test\_app/cobrowse/agent/js/ app.js as follows:

\_cbconfig.serverInfo.hostName=<IP/hostname of cobrowse snap-in server> \_cbconfig.serverInfo.port=<port to access> \_cbconfig.serverInfo.isSecure=<true/false>

- 4. Restart the Tomcat server.
- 5. To access the sample agent URL, go to http://<hostname:port>/ cobrowse test app/cobrowse/agent.

### **Related links**

About sample reference client on page 60

# Configuring files for customer JavaScript SDK on Tomcat server

## Before you begin

Get the following information from your administrator:

- Network Parameters: Avaya Breeze<sup>™</sup> IP or FQDN, port, and TLS on or off
- Certificate for TLS connections to Avaya Breeze<sup>™</sup>

## Procedure

- 1. Download the cobrowse\_test\_app.zip file.
- 2. Unzip the cobrowse\_test\_app.zip file to the webapps/cobrowse\_test\_app directory.

3. Configure the properties in the customer file cobrowse\_test\_app/cobrowse/ customer/js/app.js as follows:

```
_cbconfig.serverInfo.hostName=<IP/hostname of cobrowse snap-in server>
_cbconfig.serverInfo.port=<port to access>
_cbconfig.serverInfo.isSecure=<true/false>
```

- 4. Restart the Tomcat server.
- 5. To access the sample agent URL, go to http://<hostname:port>/ cobrowse test app/cobrowse/customer.

#### **Related links**

About sample reference client on page 60

## **Configuring files for Reports SDK on Tomcat server**

## Before you begin

Get the following information from your administrator:

- Network Parameters: Avaya Breeze<sup>™</sup> IP or FQDN, port, and TLS on or off
- Certificate for TLS connections to Avaya Breeze<sup>™</sup>

#### Procedure

- 1. Download the cobrowse test app.zip file.
- 2. Unzip the cobrowse\_test\_app.zip file to the webapps/cobrowse\_test\_app directory.
- 3. Configure the properties in the admin file cobrowse\_test\_app/cobrowse/admin/js/ app.js as follows:

var serverURL = 'https://<Avaya Breeze\_cluster>/services/CoBrowse'

, where

<Avaya Breeze\_cluster> is the URL of Avaya Breeze<sup>™</sup> on which the co-browse service is installed.

- 4. Restart the Tomcat server.
- 5. To access the sample reports website, go to http://<hostname:port>/ cobrowse\_test\_app/cobrowse/admin.

### 😵 Note:

Avaya Co-Browsing Snap-in provides ReST APIs to audit cobrowsing session information. The sample reports website is created using audit Rest APIs and does not use cobrowsing JavaScript SDK.

## **Related links**

About sample reference client on page 60

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deployment <u>34</u>
videos