

Enabling Single Sign-On for Common Identity using Ping Federate

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Introduction

Introduction

This document covers the configuration of the required software components essential for achieving a Single Sign-on (SSO) solution with WebEx Messenger using Ping Federate.

Enabling SSO for WebEx Messenger

Configure Federated Web SSO

- 1. Log into http://www.webex.com/go/connectadmin with your administration credentials.
- 2. Select the **Configuration tab** > **System Settings** > **Security Settings**.
- 3. Select Federated Web SSO Configuration.
- 4. In the **WebEx SAML Issuer (SP ID)** field, enter the name for the SAML agreement.

Note: You can use the fully qualified domain name (FQDN) of your organization.

- 5. Complete all the required fields.
- 6. Select **Export** to export the metadata to a location on your computer. You will import this file next.

Create a New SP Connection

- 1. Go to PingFederate https://ping0a.uc8sevtlab13.com:9999/pingfederate/app.
- 2. In SP Connections, select Create New.

- 3. Select **Do not use a template for this connection**.
- 4. Select Next.
- 5. Select the Browser SSO Profiles check box.
- 6. Select Next.
- 7. Select **Choose File** to navigate to and select the metadata file.
- 8. Select Next.
- 9. Ensure all information is correct in the General Info tab.
- 10. Select Done.

Configure the Browser SSO

- 1. Select Configure Browser SSO.
- 2. Select the SP-Initiated SSO check box.
- 3. Select Next.
- 4. Select Configure Assertion Creation.
- 5. Select the **Standard** radio button.
- Select Next to add all the attributes that Messenger needs for JIT (Just in time Provision).

🕜 Main	SP Connection	Browser SSO	Assertion Creation
Identity Mapping	Attribute Contract IdP	Adapter Mapping Summary	
An Attribute C	ontract is a set of user attrib	utes that this server will send in the as	sertion.
ATTRIBUTE CONT	RACT SUBJECT NAME FO	DRMAT	
SAML_SUBJECT	urn:oasis:names:to	:SAML:1.1:nameid-format:unspecified	· •
EXTEND THE CONTRACT	ATTRIBUTE NAME I	FORMAT	ACTION
email	urn:oasis:names:tc:SA	AML:2.0: attrname-format: basic	Edit / Delete
firstname	urn:oasis:names:tc:SA	AML:2.0: attrname-format: basic	Edit / Delete
lastname	urn:oasis:names:tc:SA	AML:2.0: attrname-format: basic	Edit / Delete
uid	urn:oasis:names:tc:SA	AML:2.0: attrname-format: basic	Edit / Delete
updateTimeStamp	urn:oasis:names:tc:SA	AML:2.0: attrname-format: basic	Edit / Delete
	urn oasis names to	SAML: 2.0: attrname-format: basic	• Add

- 7. Select Next.
- 8. Select **Map New Adapter Instance....** to map to an authentication mechanism you have previously configured in PingFederate.
- 9. From the ADAPTER INSTANCE drop-down, select the adapter instance.
- 10. Select Next.
- 11. Select Retrieve additional attributes from multiple data stores using one mapping.
- 12. Select Next.
- 13. Select Add Attribute Source which in this case is is the active directory domain controller for our domain.

🕜 Main	SP Connection	on 🔳) Browser 550
Attribute	Sources & User	Lookup	
🛧 Data Store 🛛 LD/	AP Directory Search	LDAP Filter	Summary
This server use	es local data stores to	retrieve supp	emental attributes to
Attribute Source Id	ad1a	*	
Attribute Source Description	ad1a	*	
Active Data Store	ad1a.uc8sevtla	b13.com	
Data Store Type	LDAP		
Managa Data Stores			
Manage Data Stores			

- 14. Select Next.
- Specify the Base DN and select the root object class <Show All Attributes>.

🕜 Main	SP Connectio	n 🔘	Browser	SSO	Assertion C
Attribut	te Sources & User L	ookup			
Data Store 🛧	DAP Directory Search	LDAP Filter	Summary		
Please conf	igure your directory searc	h. This inform	ation, along	with the al	tributes supplied in the
Base DN				dc=uc8	sevtlab13,dc=com
Search Scope				Subtre	в 🔹
Attributes to return	from coorch				
ROOT OBJECT C	LASS			ATTRIBU	JTE
				Subject D	IN
- SELECT -		•		•	
- SELECT -	itees	*			

- Select Add Attribute to add all the AD attributes to comply to the JIT attributes requested in the assertion.
- 17. Select Next.
- **18.** In the Filter text box, enter the ldap filter containing the username provided by the user.
- 19. Select Next.
- 20. Select the source and value for the assertion attributes provided by the AD datastore, as shown below, from the drop-downs.

🕜 Main	SP Connect	ion 🤇	Brov	vser 550	• A	ssertion C	reation		IdP A
Adapter Instance	Assertion Mapping	Attribute S	ources &	User Lookup	🛧 Attribut	e Contract F	ulfillment	Issuance	Criteria
Fulfill your At	tribute Contract with ve	alues from on	e or mor	e data stores, th	e authent	ication adapt	er, or dyna	imic text va	lues.
ATTRIBUTE CONT	RACT	SOURCE		VALUE					
SAML_SUBJECT		LDAP (ac	i1a) 🔻	mail	•				
email		LDAP (ac	i1a) 🔻	mail	•				
firstname		LDAP (ac	11a) 🔻	gi∨enName	•				
lastname		LDAP (ac	11a) 🔻	sn	•				
uid		LDAP (ac	i1a) 🔻	mail	•				
updateTimeStamp		LDAP (ac	i1a) 🔻	whenChange	d 🔻				

The asseration configuration is shown below.

🕜 Main	SP Connection Browser SSO					
SAML Profiles	Assertion Lifetime	Assertion C	reation	Protocol Settings	Summary	
This task p	provides the configura	tion for creating	SAML 6	assertions to enable S	SSO access to resou	
Assertion Config	uration					
Identity Mapping	:	Standard				
Attribute Contract		SAML_SUBJECT	, email, fi	irstname, lastname, uid	l, updateTimeStamp	
Adapter Instances						
Configure Assert	ion Creation					

- 21. Select Done.
- 22. Select Next.
- 23. Select Configure Protocol Settings.
- 24. Select the **Post** and **Redirect** check boxes.
- 25. Select **Summary** to view the protocol settings, as shown below.

Main SP Connect	ion 💿 Brows	ser SSO 🧕 🧿) Protocol Sett	ings
Assertion Consumer Service URL Allo	wable SAML Bindings	Signature Policy	Encryption Policy	🛧 Summary
Summary information for your Proto	col Settings configuratio	on. Click a heading	link to edit a configura	ation setting.
Protocol Settings				
ASSERTION CONSUMER SERVICE UR	L.			
Endpoint	URL: /cas/SAML2AuthService?org=uc8sevtlab13.com&type=connect2 (POS			
ALLOWABLE SAML BINDINGS				
Artifact	false			
POST	true			
Redirect	true			
SOAP	false			
SIGNATURE POLICY				
Require digitally signed AuthN requests	false			
Always sign the SAML Assertion	true			
ENCRYPTION POLICY				
Status	Inactive			

26. Select Done.

Configure Certificate for the Assertion and Activate

1. In the SP Connection tab, select Configure Credentials.

- 2. Select the certificate you created for the SAML assertions.
- 3. Select Next.
- 4. Select Done.
- 5. Select the Next.
- In the Activation & Summary tab, ensure the Active radio button is selected.
- 7. Select Save.

Export the Metadata

- 1. In the **SP Connection** tab, select the **Export Metadata** link.
- 2. Select the signing certificate from the drop-down.
- 3. Select Export.

Import SAML Metadata in WebEx Messenger

- 1. Log into <u>http://www.webex.com/go/connectadmin</u> with your administration credentials.
- 2. Select the **Configuration tab** > **System Settings** > **Security Settings**.
- 3. Select Federated Web SSO Configuration.
- 4. Select **Import SAML Metadata** to import the metadata file you downloaded.
- In the AuthContextClassRef field, enter urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified.

This string ensures that Ping Federate can deliver Kerberos and Form based authentication.

Important: For Cisco Jabber to work with Cisco WebEx Messenger Instant Messenger and Presence and deliver on-premise Cisco Unified Call Manager (CUCM) and Unity connection, you must provide the UC details for CUCM and connections in the Webex Messenger administrator portal.

To use SSO in Cisco WebEx Messenger and Cisco WebEx Meeting Center, ensure loose integration is enabled for both.

See Cisco Unified Communications Integration with Cisco WebEx and Provision Loosely Coupled Integration in the Cisco WebEx Messenger Administration Guide.

Migration from WebEx Messenger to Common Identity SSO Authentication

Request to Add Domain to Common Identity

Contact your Customer Success Manager (CSM) or Universal Agent (UA) to submit an ops request to add the domain to CI or email: <u>ci-messenger-sync@cisco.com</u>.

Create a Password in Cl

As none of the users migrated from Cisco WebEx Messenger have a password, you must create a password for an existing administrator now.

- Connect to <u>Https://web.ciscospark.com</u> and enter the email address of the administrator.
- 2. Select Next.
- 3. Select Can't access your account?.

An email is automatically sent to that user asking them to reset their password.

Configure SSO in Cloud Collaboration Management

- Connect to <u>https://admin.ciscospark.com</u> using the email address and password that you previously reset.
- From the top navigation bar, select Service Setup > Enterprise Settings to download the CI metadata to configure Ping Federate.
- 3. In the Enterprise Settings window, select Integrate a 3rd-party identity provider (Advanced).
- 4. Select Next.
- 5. Select **Download Metadata File** to browse to and save the metadata file.

Create a New SP Connection for CI

- Go to your PingFederate Administration portal <u>https://ping0a.uc8sevtlab13.com:9999/pingfederate/app</u>.
- 2. Select Create New.
- 3. Select the **Do not use a template for this connection** radio button.
- 4. Select Next.
- 5. Select Browser SSO Profiles.
- 6. Select the Import Metadata tab.
- Select Choose File to browse to and import the metadata file dwnloaded from Cisco WebEx Messenger.
- 8. Select Next.
- 9. Review the information in the **General** tab.
- 10. Select Done.

Configure the Browser SSO for CI

- 1. Select Configure Browser SSO.
- 2. Select the SP-Initiated SSO check box.
- 3. Select Next.
- 4. Select Configure Assertion Creation.
- 5. Select the Transient radio button and the check box below it.
- 6. Extend the contract attributes, as shown below.

🐽 Main	SP Connection	Browser SSO	Asser	tion Creation
Identity Mapping	Attribute Contract IdP A	dapter Mapping Summary		
An Attribute of	Contract is a set of user attribut	les that this server will send in th	he assertion.	
EXTEND THE CONTRACT	ATTRIBUTE NAME F	ORMAT	A	CTION
mail	urn:oasis:names:tc:SAI	ML:2.0:attrname-format:basic	Ed	dit / Delete
uid	um:oasis:names:tc:SAI	ML:2.0:attrname-format:basic	Ed	dit / Delete
	urn:oasis:names:tc:	SAML:2.0: attrname-format: basic	c • A	Add

7. Select Next.

- 8. Select Map New Adapter Instance.
- 9. From the **ADAPTER INSTANCE** drop-down, select the the authentication mechanism you configured previously.
- 10. Select Next.
- 11. Select the **Retrieve additional attributes from multiple data stores** using one mapping radio button.
- 12. Select Next.
- 13. Select Add Attribute Source which in this case is is the active directory domain controller for our domain.

🕥 Main	SP Connect	ion 🔳	Browser SSO
Attribute	e Sources & User	Lookup	
☆ Data Store 🛛 🗠	DAP Directory Search	LDAP Filter	Summary
This server u	ses local data stores to	o retrieve supp.	lemental attributes to be
Attribute Source Id	ad1a	*	
Attribute Source Description	ad1a	*	
Active Data Store	ad1a.uc8sevti	ab13.com	
Data Store Type	LDAP		
Manage Data Store	35		

- 14. Select Next.
- Specify the Base DN and select the root object class <Show All Attributes>.

🕜 Main	SP Connecti	on 🔳	Browser	sso	Assertion
Attribut	e Sources & User	Lookup			
Data Store 🛧 L	DAP Directory Search	LDAP Filter	Summary		
Please config	gure your directory sear	rch. This inform	nation, along	with the a	ttributes supplied in
Base DN				dc=uc8	se∨tlab13,dc=com
Search Scope				Subtre	e •
Attributes to return 1	rom search				
ROOT OBJECT C	LASS			ATTRIBU	JTE
				Subject D	N
- SELECT -		•		•	
- SELECT -		*			

- 16. Select Add Attribute to add the mail attribute from the active directory.
- 17. Select Next.
- **18.** In the Filter text box, enter the ldap filter containing the username provided by the user.
- 19. Select Next.
- 20. Select the source and value for the assertion attributes provided by the active directory datastore, as shown below, from the drop-downs.

🕜 Main	SP Connect	ion (Brow	vser SSO	Assertion Creation
Adapter Instance	Assertion Mapping	Attribute	Sources &	User Lookuj	p 🛧 Attribute Contract Fulfillment Issuanc
Fulfill your At	tribute Contract with ve	alues from o	one or mor	e data store:	s, the authentication adapter, or dynamic text v
ATTRIBUTE CONT	RACT	SOURCE		VALUE	
mail		LDAP (ad1a) 🔻	mail	

The asseration configuration is shown below.

🕜 Main	SP Conne	owser SSO	
SAML Profiles	Assertion Lifetime	Assertion Creation	Protocol Settings Su
This task p	rovides the configura	tion for creating SAML a	assertions to enable SSO
Assertion Config	ıration		
dentity Mapping	2-	Transient	
Attribute Contract	3	mail, uid	

Configure Assertion Creation

- 21. Select Done.
- 22. Select Next.
- 23. Select Configure Protocol Settings.
- 24. Select the **Post** and **Redirect** check boxes.
- 25. Select Next.
- 26. Select the Always sign the SAML Assertion check box.
- 27. Select **Summary** to view the protocol settings, as shown below.

💮 Main	SP Con	nection	Brows	ser 550		Protocol Sett	ings
Assertion Consum	ner Service URL	Allowable S	AML Bindings	Signature Po	licy	Encryption Policy	🛧 Summary
Summary information for your Protocol Settings configuration. Click a heading link to edit a configuration setting.							
Protocol Settir	igs						
ASSERTION CON	ISUMER SERVIC	EURL					
Endpoint	URL: /idb/Consumer/metaAlias/8538f9ff-4f12-440a-9880-3488bc3eb146/sp (3488bc3eb146/sp (POST)		
ALLOWABLE SAI	ML BINDINGS						
Artifact			false				
POST			true				
Redirect			true				
SOAP			false				
SIGNATURE POL	ICY.						
Require digitally sig	ned AuthN reques	ts	false				
Always sign the SA	AML Assertion		true				
ENCRYPTION PC	DLICY						
Status			Inactive				

28. Select Done.

Configure Certificate for the Assertion and Activate

- 1. In the SP Connection tab, select Configure Credentials.
- 2. Select the certificate you created for the SAML assertions.
- 3. Select Next.
- 4. Select Done.
- 5. Select the Next.
- In the Activation & Summary tab, ensure the Active radio button is selected.
- 7. Select Save.

Export and Edit the Metadata for CI

- 1. In the **SP Connection** tab, select the **Export Metadata** link.
- 2. Select the signing certificate from the drop-down.
- 3. Select Export.
- 4. Use an XML editor to remove the elements not required in CI.

Note: There are several XML editors available online but we recommend Code Beautify <u>http://codebeautify.org/xmlviewer</u>.

- 5. In the XML editor, browse to the metatdata file you exported.
- Remove all the XML Tags except entitydescriptor, idpssodescriptor and contact person..



- 7. Select **Download** to download the edited file.
- 8. The metadata file should look like this:



Complete SSO Configuration in Cloud Collaboration Management

- 1. Connect to https://admin.ciscospark.com using the email address and password that you previously reset.
- From the top navigation bar, select Service Setup > Enterprise Settings to download the CI metadata to configure Ping Federate.
- 3. In the Enterprise Settings window, select Integrate a 3rd-party identity provider (Advanced).
- 4. Select Next.
- 5. Select **Import** to browse to and import the edited metatadata file.

A success message is displayed when the import of the metadata file is complete.

- 6. Select Next.
- 7. Select Test SSO Configuration .
- 8. Sign in with the administrator details.

Redirect Authentication

 Before you can verify the Jabber authentication in CI, authentication must be redirected from the WebEx Messenger platform to the CI platform, To do this contact the CSM to update the existing ops request or submit a new ops request or email: <u>ci-messenger-sync@cisco.com</u>.

Verification of Cisco Jabber Authentication in CI

- 1. Start Cisco Jabber.
- 2. Verify that all the on-premise are still using SSO.

			O Cisco Jabber	
Options			paucorre@uc8sevtlab13.com	¢•
General			Q Search or call	2
Chats	Phone services		* Contacts	
Audio	TFTP server:	cucm7a.uc8sevtlab13.com	ccarvalh@uc8sevtlab13.c	om
Video	CTI server:	cucm7a.uc8sevtlab13.com	Contacts	
Calls	CCMCIP server:	cucm7a.uc8sevtlab13.com		
Status				
Location			Recents	
Sounds and Alerts	Voicomail			
Privacy	voicemail		Voice	
Accounts	Server:	ucxn7a.uc8sevtlab13.com	Messages	
Self Care Portal			31	
Meetings			Meetings	
Calendar				
		OK Cancel Apply		

3. Verify that WebEx Meeting Center is enabled for loose Integration.



4. Finally, verify that Cisco Jabber logs contain the string idbroker.webex.com, indicating that it is connecting to CI.

2015-06-05 09:34:31,893 DEBUG [0x000016e4] [ervices\impl\TransportHttpClient.cpp(87)] [csfunified.telemetry.TransportHttpClient] [CSFUnified::telemetry::TransportHttpClient::getAccessTokenForMetricsService] - About to execute access token request: [url] https://idbroker.webex.com/idb/oauth2/v1/access_token [method] 1 [followRedirects] 1 [transferTimeout] 0 [connectionTimeout] 0 [numRetries] 0 [authType] 1 [acceptable cryptographic protocols] TLS 1 0 TLS 1 1 TLS 1 2 [useSystemProxy] 1 [header] User-Agent: [size of body] 64 2015-06-05 09:34:31,893 DEBUG [0x000016e4] [sf-netutils\src\common\PolicySet.cpp(84)] [csf.common.PolicySet] [csf::common::PolicySet::getPolicy] - Successfully found Policy with nature EDGE USAGE [NEVER USE] 2015-06-05 09:34:31,893 DEBUG [0x000016e4] [ls\src\http\BasicHttpClientImpl.cpp(253)] [csf.httpclient] [csf::http::BasicHttpClientImpl::execute] - Edge policy enforced successfully with transformed Url: https://idbroker.webex.com/idb/oauth2/v1/access token for request #1 2015-06-05 09:34:31,893 DEBUG [0x000016e4] [etutils\src\http\HttpRequestData.cpp(71)] [csf.httpclient] [csf::http::HttpRequestData::consumeEasyCURLConnection] - Acquired lock (easyCurlConnectionMutex) 2015-06-05 09:34:31,893 DEBUG [0x000016e4] [etutils/src/http/HttpRequestData.cpp(80)] [csf.httpclient] [csf::http::HttpRequestData::consumeEasyCURLConnection] - Releasing lock (easyCurlConnectionMutex)

2015-06-05 09:34:31,894 INFO [0x000016e4] [etutils\src\http\CurlHttpUtils.cpp(1015)] [csf.httpclient] [csf::http::CurlHttpUtils::configureEasyRequest] - *----* Configuring request #1 POST <u>https://idbroker.webex.com/idb/oauth2/v1/access_token</u>