TOMORROW starts here.

11 11 11 CISCO



Unified Communications Directory Integrations (SSO)

BRKUCC-2664

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Agenda

- Identity and Directory challenges
- Directory Integration
- Single Sign-On Technologies
- Enabling SAML SSO On-Prem
- Enabling SAML SSO Cloud
- Key Takeaways and Q&A



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Identity and Directory Challenges

Why Identity Matters?

Improve Adoption

- Increasing threat vectors for enterprise identities
- Gartner Predicts: "By 2016, 40% of enterprises will make proof of independent security testing a precondition for using any type of cloud service."

Reduce Cost

- Gartner estimates 20-50% of support costs related to password management
- Cisco IT estimates \$250/user/year cost of password management
- Build features not security

Meet Security & Compliance Requirements

- Make it easy to integrate with enterprise identity customers with industry standards and tools
- Common Identity facilitates integration between products reduces onboarding and training time for new products



Cisco Identity Management Challenge

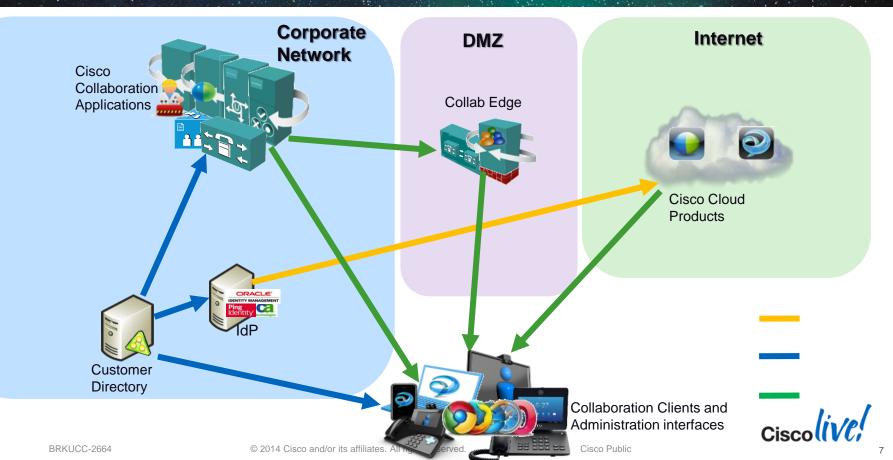




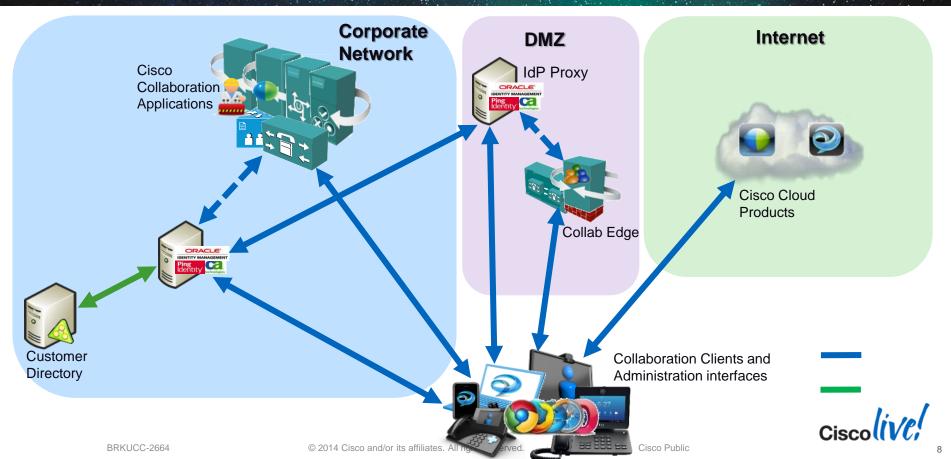




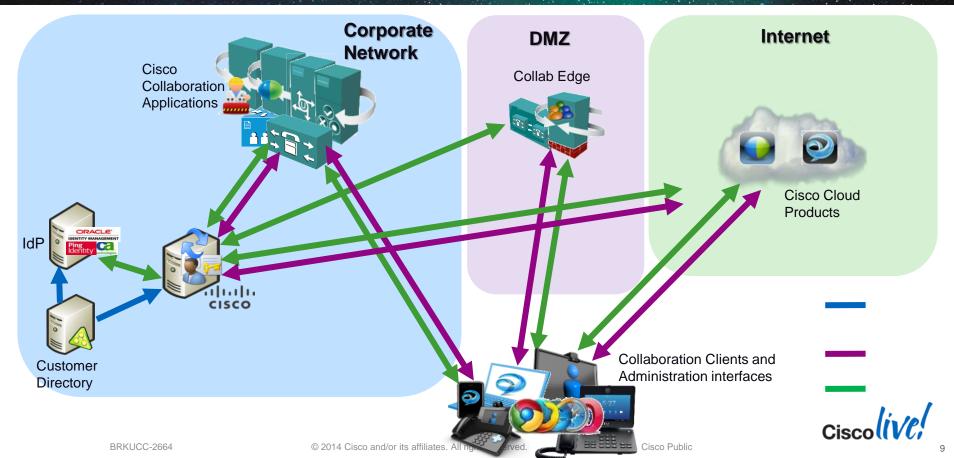
Identity Architecture Collaboration System Release 10



Identity Architecture Collaboration System Release 10.x



Identity Architecture – End Goal



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Directory Integration

Directory Synchronisation Changes Attributes visibility in 9.x and 10.x

	Upto 9.X	10.x
User ID	Yes	Yes
Last Name	Yes	Yes
Middle Name	Yes	Yes
First Name	Yes	Yes
Tittle	No	Yes
Department	Yes	Yes
Manager ID	Yes	Yes

	Upto 9.X	10.x
Phone Number	Yes	Yes
Mobile Number	No	Yes
Home Number	No	Yes
Pager Number	No	Yes
Directory URI	Yes	Yes
Mail ID	Yes	Yes

iddle Name iniddleName Last Name iniddleName anager ID manager Department department sone Number telephoneNumber Mail ID mail	co Unified Communications Manager User Fields	LDAP Attribute	Cisco Unified Communications Manager User Fields	LDAP Attribute
anager ID manager telephoneNumber v Mail ID mail	er ID	sAMAccountName	First Name	givenName
none Number Mail ID mail	ddle Name	middleName 🗸	Last Name	sn
	nager ID	manager	Department	department
ie title Home Number home ho	one Number	telephoneNumber 🗸	Mail ID	mail
	le	title	Home Number	homephone
pager pager pager	bile Number	mobile	Pager Number	pager
rectory URI msRTCSIP-primaryuseraddress v	rectory URI	msRTCSIP-primaryuseraddress		Ci

Directory Synchronisation Changes

Extra information required

With the introduction of Self-Provision devices and it's need for creating groups based on LDAP queries/details, a lot changed when we synchronise user information from an LDAP sources

Group Information	(i) Status: Ready
Access Control Groups Standard CTI Allow Call Recording Standard CTI Allow Calling Number Modification Standard CTI Allow Control of Phones supporting C Standard CTI Allow Control of Phones supporting R Standard CTI Enabled	-Cisco Unified Communications Manager Information Cisco Unified Communications Manager: CM_cucm3a (used by
Feature Group Template My Feature Group ✓ Apply mask to synced telephone numbers to create a new line for inserted users Mask 35121454XXXX ✓ Assign new line from the pool list if one was not created based on a synced LDAP telephone number Next Candidate DN: 2004	Server Information 1 CTI ID 1 Cisco Unified Communications Manager Server* cucm3a Cisco Unified Communications Manager Name* CM_cucm3a Description cucm3a Location Bandwidth Manager Group < None >
Order DN Pool Start DN Pool End 2000 2100 Add DN Pool	- Auto-registration Information Universal Device Template Universal Line Template MyLineTemplate
LDAP Server Information Host Name or IP Address for Server* 172.16.36.10 Add Another Redundant LDAP Server	Starting Directory Number* 1000 Ending Directory Number* 1000 2 Auto-registration Disabled on this Cisco Unified Communicat
Save Delete Copy Perform Full Sync Now Add New	Cisco Unified Communications Manager TCP Port Setting Ethernet Phone Port* 2000

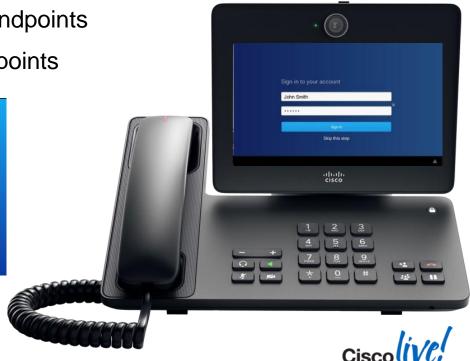
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Self-Provisioning

- IVR Self-Provision For non-GUI capable devices
- GUI Self-Provision For advance IP endpoints
- GUI Self-Provision For software endpoints



Note : for the TUI phones will need to register in CUCM before the user can Self-Enroll



member My Password

Self-Provisioning

- Admin needs to decide on the level of authentication required for the Self-Provisioning process.
 - No Authentication
 - Authentication with user Pin/Password
 - Authentication with user Pin/Password and extra administrator Authentication Code

Self-Provisionin	1			
Save				
Status	Registration feature is turned off.			
	-			
Require Auth	1000			
In this mode			rovision devices based on the permission	ns in their User P
	uthentication for users only(via Pass			
O Allow a	uthentication for users(via Password,	/PIN) and Administrator	s(via Authentication Code)	
Auth	entication Code			
O No Authentica	tion Required			
0				
In this mode			he administrator or end user can enter a	user ID or self.
	, authentication is disabled during de the user's account. This mode is not r		he administrator or end user can enter a o-day operation.	user ID or self-
associate to				user ID or self-
associate to i	he user's account. This mode is not r			user ID or self
	he user's account. This mode is not r		o-day operation. Selected Language	user ID or self
associate to i	the user's account. This mode is not n		o-day operation. Selected Language English, United States	user ID or self
associate to i	the user's account. This mode is not n	recommended for day-t	o-day operation. Selected Language English, United States	user ID or self-



How Do We Create Different "Locations" For Self-Provisioning?

We need to create one LDAP Synchronisation Agreement per group of devices with the same characteristics (normally region/location in CUCM terms)

In the case of an Active Directory LDAP source the best practices will be to synchronise against a Global Catalogue and create an LDAP filter that will identify users in a given location.

This synchronisation agreement will be associated with a Feature Group Template and that will define the characteristics of the Self-Provisioned Device

Status Status: Ready LDAP Directory Information LDAP Configuration Name* LDAP Manager Distinguished Name* LDAP Sessered* IDAP Reassword* I
LDAP Directory Information LDAP Configuration Name* constraints LDAP Manager Distinguished Name* con-Administrator,on-Users,do-cisco,do-net
LDAP Configuration Name* Eters LDAP Manager Distinguished Name* cn=Administrator,cn=Users,dc=cisco,dc=net
LDAP Manager Distinguished Name* on=Administrator,cn=Users,dc=cisco,dc=net
cil-Administrator, di-Osers, dc-disco, dc-liet
LDAP Password
Confirm Password*
LDAP User Search Base * dc=cisco,dc=net
LDAP Custom Filter Braga branch 🗸

LDAP Directory Synchronization Schedule

LDAP Filter (Configuration
🔚 Save 🔰	🕻 Delete 📄 Copy 🕂 Add New
<u> </u>	uccessful n Filter Information
Filter Name* Filter*	Braga branch (physicalDeliveryOfficeName=Braga)

Access C	ontrol Grou	Standard CTT Allow Call Recordin		^
		Standard CTI Allow Calling Numb		A
		Standard CTI Allow Control of Ph Standard CTI Allow Control of Ph		R
		Standard CTI Enabled		~
_	Group Temp mask to sy	^{ate} My Feature Group iced telephone numbers to create a r		v I users
Apply		Hy reactine Group		
Apply M Assign	mask to sy Mask n new line f	iced telephone numbers to create a r 35121454XXXX om the pool list if one was not create	new line for inserted	l users
Apply M Assign Next Ca	mask to sy Mask n new line f andidate DN	inty reache Group 35121454XXXX bm the pool list if one was not create 2004	new line for inserted	l users
Apply M Assign Next Ca Order	mask to sy Mask n new line f	inty reache Group 35121454XXXX bm the pool list if one was not create 2004	new line for inserted	l users

LDAP Filters

There is a rich syntax to create Idap filters :

Equality

Negation

Presence

Absence

Absence

Greater than

Less than Wildcards

(attribute=*) (!(attribute=*)) (attribute>=abc) (attribute<=abc)

(attribute=abc)

(!(attribute=abc))

(&(objectclass=user)(cn=Paulo Jorge Correia) (!objectClass=computer) (Department=*) (!manager=*) (telephoneNumber>=5000) (telephoneNumber<=6000) (mail=*@cisco.com)

You can get more information in :

http://www.ldapexplorer.com/en/manual/109010000-ldap-filter-syntax.htm



What is a Feature Group Template

Various FGT (Feature Group Template) parameters include Home Cluster, Enable Mobility, Enable EMCC, Calling Search Space, Enable User for Unified CM IM and Presence, User Locale, Enable Mobile Voice Access etc.

Universal Device Templa	te Configuration	
Close		
 Template Information 		
Name * Auto-registration	Template	
✓ Required and Frequently Ent	tered Settings	
Device Description	#FirstName# #LastName# (#Pro-]
Device Pool *	Default 👻	View Detail
Device Security Profile *	Universal Device Template - Moc +	
SIP Profile *	Standard SIP Profile +	
Phone Button Template *	Universal Device Template Butto +	
Device Settings		
Device Routing		
 Phone Settings 		
 Protocol Settings 		
Phone Buttons Configuration	n	
 IP Phone Services Subscript 	ion	
 Security Settings 		
 Service Configuration Setting 	gs	
 Troubleshooting Settings 		
 Locale Settings 		

Universal Line Template Configura	ation
Close	
▼ Template Information	
Name * MyLineTemplate	Urgent Priority
* Required and Frequent	ly Entered Settings
Line Description:	#FirstName# #LastName# (#
Route Partition:	•
Voice Mail Profile:	· ·
Calling Search Space:	· · ·
Alerting Name:	#FirstName# #LastName#
External Call Control Profile:	
 Directory Number Sett 	ings
 Music On Hold (MOH) : 	-
 Automatic Alternate R 	-
Call Forward Settings	odding (AAN) Settings
 Park Monitoring Settin 	
	•
	Preemption (MLPP) Alternate
 Hold Reversion Setting 	js

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Feature Group Template Config	uration
🔜 Save 🗙 Delete 🕂 Add Ne	ew .
My Feature Group Name * My Feature Group Description Paulo Feature Group	
	I Presence (Configure IM and Presence in the esence(Requires Exchange Presence Gateway
User Profile My User Group	View Details View Details
Allow Control of Device from CTI Enable Extension Mobility Cross C Enable Mobility Enable Mobile Voice Access	luster Features
Maximum Wait Time for Desk Pickup	* 10000
Remote Destination Limit	* 4
BLF Presence Group	* Standard Presence group +
SUBSCRIBE Calling Search	h 🔹 👻
User Loca	le 🗸

User Profile Configuration		
🔜 Save 🗶 Delete 🕂 Add Nev	v	
- Status		
i Status: Ready		
User Profile		
Name* My User Group		
Description Paulo User Group		
Make this the default User Profile	e for the system	
-Universal Device Template		
Desk Phones	Auto-registration Template	View Deta
Mobile and Desktop Devices	Auto-registration Template	View Detai
Remote Destination/Device Profiles	Auto-registration Template	View Deta
-Universal Line Template		
Universal Line Template MyLineTen	nplate	View Details
Self-Provisioning		
Allow End User to Provision their	own phones	
Limit Provisioning once End User ha		
Save Delete Associate User	s to this Profile Add New	
		lis Inl

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Performance

- The maximum number of users that may be synced into a cluster is 160,000. This user account limit is enforced in release 10.0(1).
 - Up to 80,000 accounts are supported in release 8.6(2)-9.x
 - Up to 60,000 accounts are supported in release 6.x-8.6(1)
- The maximum number of LDAP sync agreements is 20 in release 10.0.
 - Earlier releases support up to 5 agreements
- Using 20 LDAP sync agreements with 160,000 user accounts simultaneously is not supported.
- Initial synchronisation times increase substantially (multiple hours) as the number of users and the number of sync agreements increase.

Cisco recommends:

- Configure < 10 agreements when 160,000 User Accounts are synced
- Configure up to 20 sync agreements when the total number of user accounts is < 80,000</p>

Performance

- Initial synchronisation for 60,000 User Accounts:
 - Unified CM 7.1(x) with 5 agreements ~30 minutes
 - Unified CM 8.0(1) with 5 agreements ~22 minutes
- Initial synchronisation for 80,000 User Accounts:
 - Unified CM 8.6(2) with 5 agreements ~24 minutes
 - Unified CM 9.x with 5 agreements ~38 minutes
 - Unified CM 10.0(1) with 10 agreements ~44 minutes
 - Unified CM 10.0(1) with 20 agreements ~2 hours
- Initial synchronisation for 160,000 User Accounts:
 - Unified CM 10.0(1) with 10 agreements ~3 hours
- Subsequent synchronisation operations may take more/less time depending on the number of changes between synchronisation intervals.
- If custom LDAP attributes are configured, synchronisation times could be increased, potentially double.



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Single Sign-On Technologies

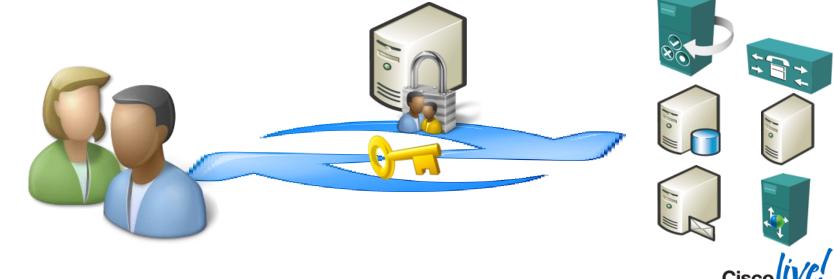
Authentication and Authorisation (AuthN and AuthZ)

The process of **authorisation** is distinct from that of **authentication**. Whereas authentication is the process of verifying that "you are who you say you are", authorisation is the process of verifying that "you are permitted to do what you are trying to do".

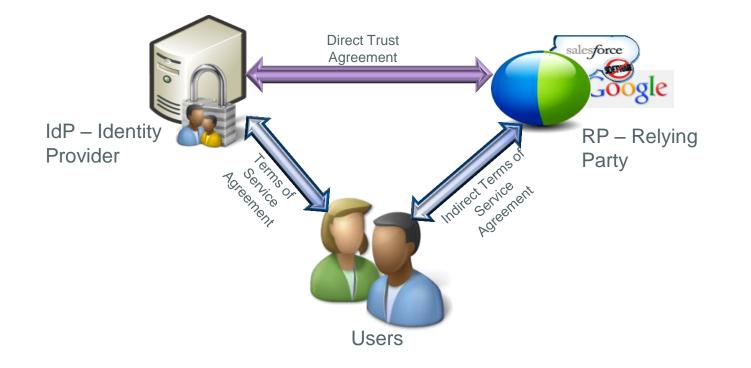


Single Sign-On Definition

Single Sign-On (SSO) is a session/user authentication process that permits a user to provide credentials only **once** in order to access multiple applications. The process authenticates the user for all the applications they have been given rights to and eliminates further prompts when they switch applications during a particular session.



Identity Framework





Role of Identity Providers (IdP)

Validate who you are?

- Review personally identifying information to prove you are who you say you are (identity proofing), such as drivers license, passport, or biometric data
- Assign attributes (name, role, email address) in the identity management system.

Validate and transact authentication requests?

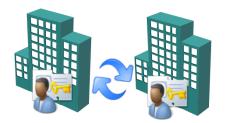
 Verifying that the person seeking access to a resource is the one previously identified and approved by utilising some form of authentication system, often a username and password.





What is Federated Identity ?

- No long term employee credentials necessary on partner sites
- Automated user provisioning and removal
- Managed access to employee information
- Minimise sharing of attributes about a user
- Single sign-on
- Scalable establishment of relations



"The only real problem is **Scaling**. All others inherit from that one."

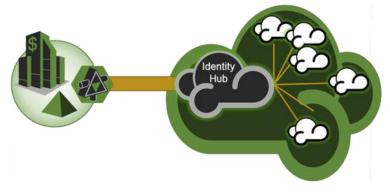
Mike O'Dell, Chief Scientist UUNET, 2000



What Does Federated Identity Buy Us?

 Describes the technologies, standards and use-cases which serve to enable the portability of identity information across otherwise autonomous security domains.

• **Provides the trust** needed for sharing these attributes between two or more parties in electronic transactions.



 Facilitates user access to online applications or resources through one user account.



SSO Protocols

SAML is a set of standards that have been defined to share information about who a user is, what his set of attributes are, and give you a way to grant/deny access to something or even request authentication. Two different organisation want to establish trust relations without exchanging passwords

OAuth is more about delegating access to something. You are basically allowing an application to impersonate you. It is used to grant access to API's that can do something on your behalf. For example you want to write an application that will use other applications like twitter, Gmail and Google Talk.





SAML 2.0

 The SAML standard is managed by the OASIS Security Services Technical Committee

- http://www.oasis-open.org/committees/security

SAML is a protocol specification to use when two servers need to share users identity information. Nothing in the SAML specification provides the actual authentication service, with it we can :

- Single Sign-On across domains
- Cookies prevent the need for reauthorisation



- SSO interoperability between different entities
- Web Service Security (SAML allows for the exchange of assertions within a SOAP document)
- Federated Identity (consolidate identities across organisational boundaries)



Firefox is your Friend

Firefox allow you to have an add-on that can decode SAML



It allow you to get the call flow of you SAML interaction and also decodes it

Clear 🛛	Autoscroll Filter resources	
GET	http://ucxn1a.cisco.net/cuadmin/home.do	
GET	https://ucxn1a.cisco.net/cuadmin/home.do	
GET	https://ucxn1a.cisco.net/ssosp/saml/login?relayurl=%2Fcuadmin%2Fhome.do	
GET	https://ping0a.cisco.net;9031/idp/SSO.saml2?SAMLRequest=nZJBb9swDIXv%2FRWC7olsK20SIQmQNRgWoFvdOtthN1p	S/
GET	https://ping0a.cisco.net:9031/assets/css/screen.1.css	
GET	https://ping0a.cisco.net:9031/assets/css/fluid.landscape.1.css	
GET	https://ping0a.cisco.net:9031/assets/css/fluid.1.css	
GET	https://ping0a.cisco.net:9031/assets/images/green_check.1.png	
GET	https://ping0a.cisco.net:9031/assets/images/bg_sprite.1.png	
GET	https://ping0a.cisco.net:9031/assets/images/logo_pingidentity.1.png	
GET	https://ping0a.cisco.net:9031/favicon.ico	
POST	https://ping0a.cisco.net:9031/idp/ttfmv/resumeSAML20/idp/SSO.ping	
POST	https://ucxn1a.cisco.net/ssosp/saml/SSO/alias/ucxn1a.cisco.net	S
GET	https://ucxn1a.cisco.net/ssosp/relay	
GET	https://ucxn1a.cisco.net/cuadmin/home.do	
		_
ittp Par	rameters SAML	
	NotOnOrAfter="2013-10-01T21:47:12.5872"	
	sponseTo="s2ac5bb73de33061aa9b28cfc895d776d3bab3423c"	

```
</saml:SubjectConfirmation>
            </saml:Subject>
             <sam1:Conditions NotBefore="2013-10-01T21:37:12.5872"</pre>
                                      NotOnOrAfter="2013-10-01T21:47:12.5872"
                                       ~
                  <saml:AudienceRestriction>
                         <saml:Audience>ucxn1a.cisco.net</saml:Audience>
                  </saml:AudienceRestriction>
            </saml:Conditions>
             <saml:AuthnStatement SessionIndex="oLNIjW o1wv2GGRt2v6cLDt9Dfw"
                                             AuthnInstant="2013-10-01T21:42:12.5862"
                                            ~
                  <saml:AuthnContext>
<saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified
ontextClassRef>
                  </saml:AuthnContext>
            </saml:AuthnStatement>
            <saml:AttributeStatement>
                  <saml:Attribute Name="uid"
                                           NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"
                                           ~
                         <saml:AttributeValue xsi:type="xs:string"
                                                         xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                                         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                                                         >paucorre</saml:AttributeValue>
                  </saml:Attribute>
            </saml:AttributeStatement>
```

```
</saml:Assertion>
</samlp:Response>
```

```
71 requests received
```

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SAML 2.0 Flow **Trust Agreement**



Metadata Exchange

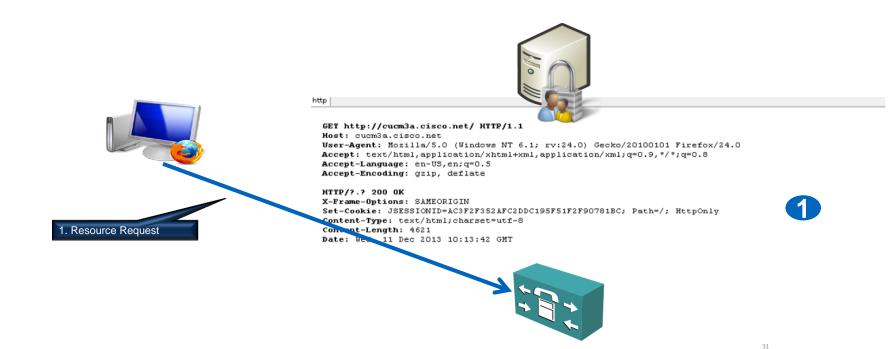


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<md:GivenName/>

SAML 2.0 Flow

Resource Request

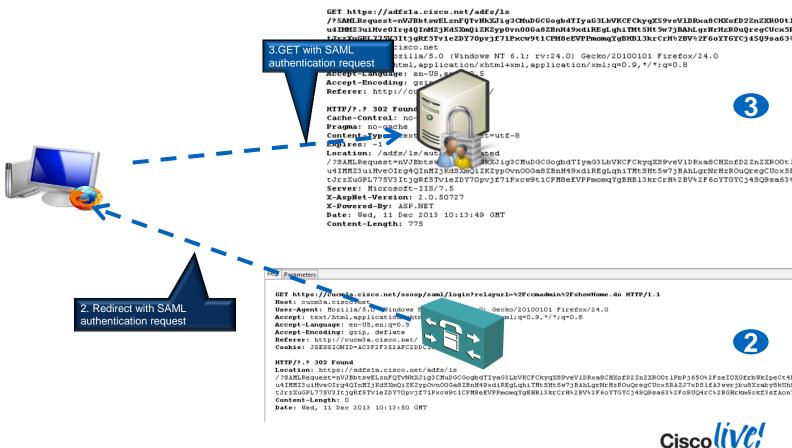




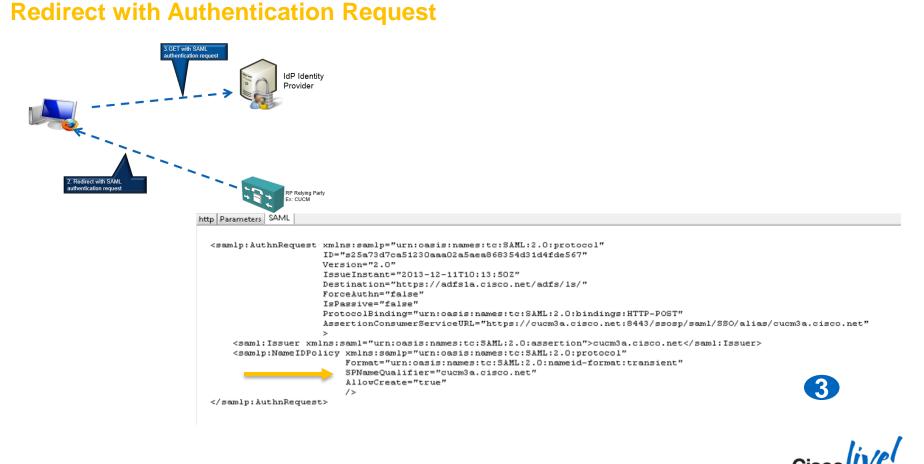
SAML 2.0 Flow

Redirect with Authentication Request

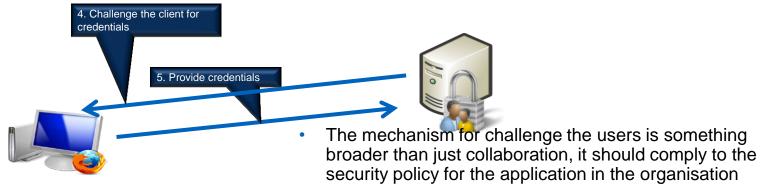
http Parameters SAML



SAML 2.0 Flow



SAML 2.0 Flow Identify the User

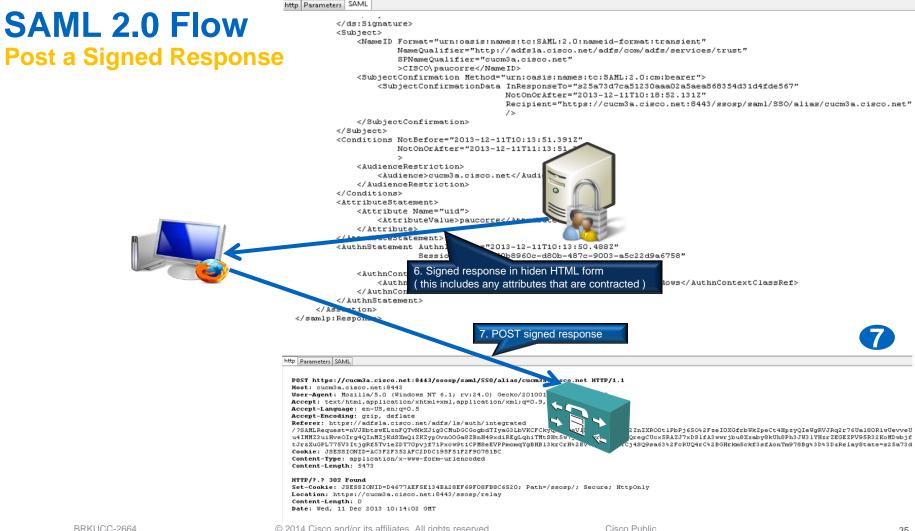




 Any authentication mechanism, single or multi factor, supported by the IdP will be supported by the collaboration applications

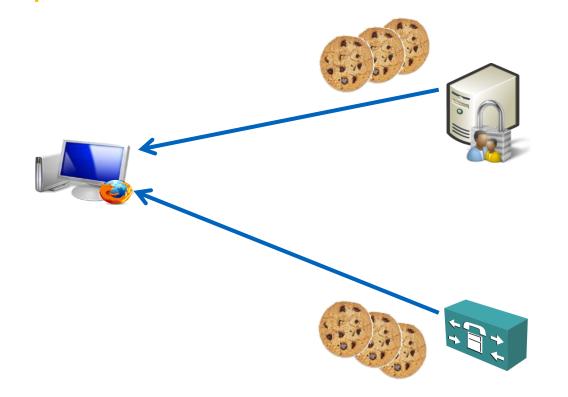




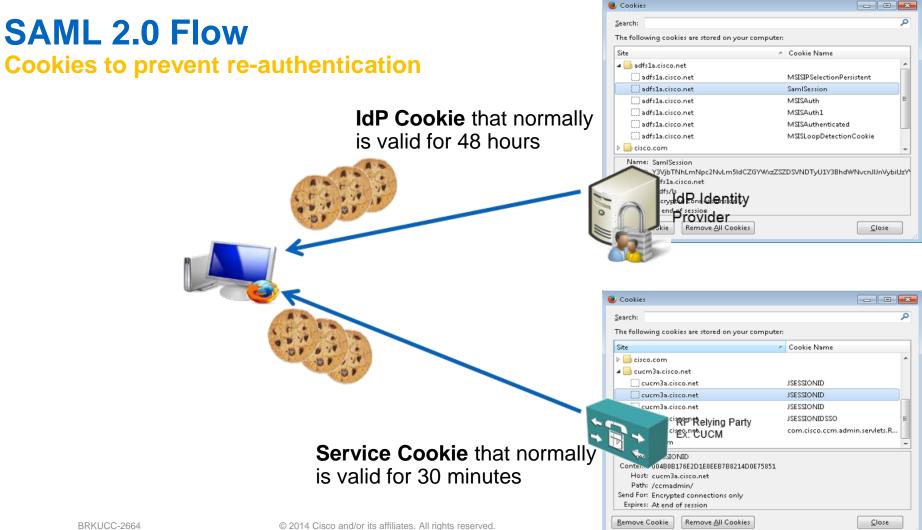


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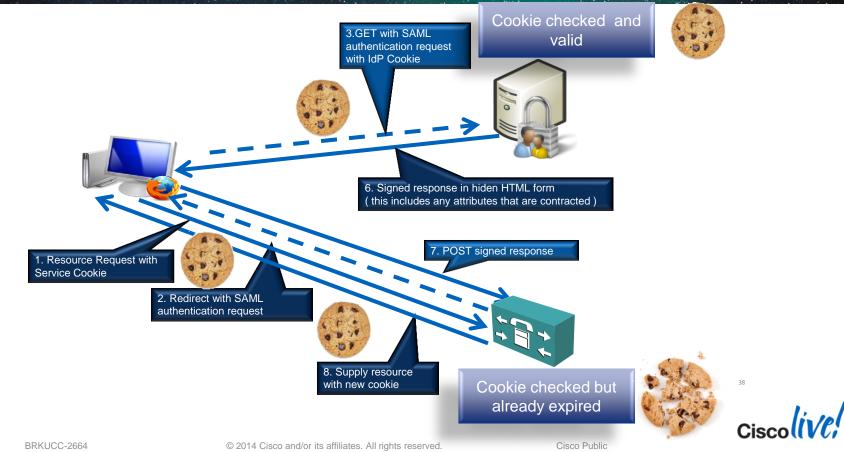
SAML 2.0 Flow Cookies to prevent re-authentication







SAML 2.0 Flow Cookies to prevent re-authentication



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Enabling SAML SSO On-Prem

Configuring SAML Integration 1. Get the metadata from the SP

Need to get the metadata from the collaboration products like CUCM, uCXN, IM&P, Prime, CWMS, WebEx

 In the example of CUCM we get it from the URL https://<CUCM IP Address or FQDN>:8443/ssosp/ws/config/metadata/sp that will provide us an XML file like the example :

TELEGITI OD GENERALISTICI I LA DESALIZZA DE LA DE LA DESALIZZA DE LA DES </ds:X509Data </ds:KeyInfo> </md:KeyDescriptor> <md:NameIDFormat>urn:oasis:names:tc:SAML:2.0:nameid-format:transient</md:NameIDFormat <md:AssertionConsumerService index="0" Location="https://cucm3a.cisco.net:8443/ssosp/saml/SSO/alias/cucm3a.cisco.net" Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST"/> </md:SPSSODescriptor> </md:EntityDescriptor>

riptor entityID="cucm3a.cisco.net" ID="cucm3a.cisco.net xmins:ds="http://www.w3.org/2000/09/xmidsig#"

Users/Administrator EMEAR/Downloads/sp.smi

- ds:Canonicalizatio
- ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/ ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
- ference URI="#cucm3a.cisco.ne
- fithm="http://www.w3.org/2000/09/xmldsigt
- ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/)
- rithm="http://www.w3.org/2000/09/xmidsig#sha1" tValue > NE/s0tE/SCw9ZUFGrsKwkUgLr/c= </ds:DigestValue:

AxaYINdiGpy)7NSO4XEBfxmJ0hIk5YHlo4SRRNSOHXUpZA/RFO+NJ9gx1b+9A7o/A eAIX3b0dE4aw414t5W

P = C 6 C:\Users\Administrator.EM_ ×

BAOEFAAOCAO8AMIIBCoKCAOEAnk7ZMzFs C745OTPNxlzoyma3/4PiVgXzRLnpOsVKJysiRgCyuINLe+52L+k7RdpyFgyx8gg K155rSchrp0b4FxTClhiXTnYit63+T/aKlAnKHixGCSL3vNHwAJAkaza1oeB3fduLNb0GbTuD9vm di CCsGAOUFBwMCBaarBaEFBOcDBTAdBaNVHO4EFaOU23UoiCsaK38/c83

HL:2.0:protocol" WantAssertionsSigned="false" AuthnRequestsSigned

ds:Keylofo ymins:

9w08ADEFAAOCAD8AHTTBCgKCADEAgk77HzFsepW196YpNUU/ 2X67RMAgcz6YOfni9881+IL5+ ovma)f4PiVgXzRLopOsVKJvsjRgCvuTNLe+52L+k7RdpvFgvxRggPMOgN2ozAMRpz x+TR3ikRR+al.3IfcLLkIrty/z4fMr0I vGBarHDarwTTTgiHKc9ac+MiC

This file will provide the certificates required to exchange HTTP information

This file also provides information on what is the :

- NameID format
- Location of the Service
- What kind of SAML binding we are going to use



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Configuring SAML Integration 2. Configuring the IdP (IdP and SP Components)

Most of the vendors always have two major tasks that together define the agreement between the IdP<->SP:

1. Configuring the IdP part, where we define what authentication mechanism we are going to use.

INSTANCE NAM

2.	With the metadata xml file that we got from
	the Cisco Collaboration Product we configure
	the SP component

	Manage IdP Adapter Instances							🙆 Main	SP Connection				
Adapte	rInstances							Connection Type	Connection Options Gene	cal late	Browner SSO Credentials	Activation & Summary	
ofe us	is adapters to authenticate users to your partners' appli	cations. Here you can manage "instances" of adapters that	K SP					Summary info	rmation for your SP connection	n. Click a l	heading in a section to edit a par	rticular configuration setting.	
1E	INSTANCE ID	TYPE						Connection Status	Active O Inactive				
	ADLDAP	HTTP Basic IdP Adapter						SP Connection					
	ADLDAPForm	HTHL Form IdP Adapter						CONNECTION TY	PE				
	ADDC	MA.IdP Adapter 3.1	tircle	of Trust (2 Item(s	an			Connection Role		SP			
			, in one		·//			Browser SSO Profil	15	true			
			New	Delete				Protocol		SAM			
								Connection Templat WS-Trust STS	8		mplate		
				Name 🔺	Entities			Outbound Provision		faise			
				CUCM	cucm3a	.cisco.net saml2		CONNECTION OF	-	19/54			
					сисмо	penAM saml2		Browser SSO		true			
				WebEx	CloudO	penAM saml2		Attribute Query		false			
					uc8sevt	lab14 saml2		GENERAL INFO					
								Partner's Entity ID (Connection ID)	cucm	3a.cisco.net		
								Base URL		https:/	//cucm3a.cisco.net.8443		
								Browser SSO					
		E	intity	Providers (4 Item	1(S))			SAML PROFILES		false			
			New	Delete Impor	rt Entity			IdP-Initiated SLO		faise			
							_	10 111010 000					
		3	≶ 🗄	Name		Protocol 🗠	Туре	• •	Location		Realm 🛆		
				CloudOpenAM		SAMLv2	IDP		Hosted		1		
				cucm3a.cisco.net		SAMLv2	SP		Remote		1		Cisco
	BRKUCC-2664	© 2		CUCMOpenAM		SAMLv2	IDP		Hosted		1		
	DRNUCU-2004	6 2		uc8sevtlab14		SAMLv2	SP		Remote		1		

Configuring SAML Integration 3. Export the metadata from the IdP

Similar to what we did in the beginning with the Collaboration Application we are going to export the metadata of the IdP to enable SSO on the SP

In our example we export the metadata from PingFederate SP and we include the X509 certificate that we require for the information exchange between the IdP <-> SP

	<pre>< <ruit version="1.0r?"> <pre>< <ds:signedinter cacheduration="PT1440M" entityid="cisco.net" id="aokowTgL_0wuqjenv4R63bgM0_P" xmins:dd="um:oasis:names:tc:SAML:2.0:metadata"> </ds:signedinter> </pre></ruit></pre>
Main SP Connections	<ds:transform algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"></ds:transform> <ds:transform algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"></ds:transform>
* Manage Connections	
A sunge connection Or this screen you can manage connections to your partner SPs. Use the drop-downs to filter the connection list. You can also override the logging mode for all SP connections by specifying a single, global logging mode.	<ds:digestmethod algorithm="http://www.w3.org/2000/09/xmldsig#sha1"></ds:digestmethod> <ds:digestvalue>HIRFe4NPMLKs2+mlKGXOzDJZWBw=</ds:digestvalue>
	gX3JAffic+3XI0FS/LmqYFDc4XCXqJ8W+TvSt4Tpku17KKDEAJdQq8UMeIfcgAT+oSKEmIv40M7t XGee+CqWFTkXxf21bHo0svcAMAFeVngGRwOhe7VjYa1uvk8: YMKUVVzNvonLx/UZrM8=
CourmDa cisco net cutm Da cisco net COURD A cisco net Cours Da cisco n	 <md:idpssodescriptor protocolsupportenumeration="urn:oasis:names:tc:SAML:2.0:protocol" wantauthnrequestssigned="failse"></md:idpssodescriptor>
Create Connection	- <md:keydescriptor use="signing"> - <ds:keyinfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#"></ds:keyinfo></md:keydescriptor>
	<pre></pre>
	Ciscolive

4. Import the metadata from the IdP and test the connection

- 1. Make sure that the Cisco Collaboration products like CUCM, uCNX, IM&P, Prime, CWMS, WebEx is using the same User Directory sources as the IdP.
- 2. Make sure that you have at least one user with Administration privileges
- 3. Import the IdP metadata, Download the Metadata Fileset and Run the Connection test

ababa Cisco Unified CM Administration		•	Test SAME MOZING THETOX	
CISCO For Cisco Unified Communications Solutions			https://172.16.36.103/ssosp/pages/TestSSO.jsp	5
System ▼ Call Routing ▼ Media Resources ▼ Advanced Features ▼ Device ▼ Application ▼ User Ma	and ← ▲ https://cucm3a.cisco.net/ccmadmin/samlSingleSignOnConfigurationW	izard2.c	SSO Test Succeed	
SAML Single Sign-On Configuration	<u> </u>		SSO TEST Succeed	
Next	CISCO Unified CM Administration For Cisco Unified Communications Solutions	clisco Unified CM Administratic	Congratulations on a successful SAML SSO cor	nfigura
Status	System 👻 Call Routing 👻 Media Resources 👻 Advanced Features 👻 Device	System Call Routing Media Resources Advanced Features	Please close this window and click "Finish"	
Ready to import Identity Provider metadata trust file to cluster servers	SAML Single Sign-On Configuration	SAML Single Sign-On Configuration	configuration wizard to complete the	seu
Identity Provider(IDP) Metadata Trust File	Back Next	Hack		
To configure the trust relationship between the Idp and your servers, you must first obtain trust met		- Status		Success
IdP Metadata File C:\Users\Administrator.EMEAR\Downloads\metadata.xml Browse	Status / Idp Metadata has been Imported to servers in this cluster	The server metadata file must be installed on the IdP before	e this test is run	Success
Initiate the Metadata Import	· · · · · · · · · · · · · · · · · · ·	Test SSO Setup		
This action must be successful for at least the Publisher before moving on to the next task in this wiz Import Ido Metadata	- Download Server Metadata to Local Storage	This test verifies that the metadata files are correctly configured This test can be run on any of the subscriber for troubleshooting SSO setup cannot be completed unless this test is successful.	and will allow S once SSO has t	
Next Cancel	This file must be downloaded before you can continue.	To run this test you must have at least one LDAP synched user w		
	Download Trust Metadata Fileset	Please use one of the ids shown below. Using any other id	to log into the :	
	Back Next Cancel	Valid administrator ids ccarvalh obucorre	un Test	
		Back Cancel		

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Administration Login with SSO Enabled

 Even after enabling SSO in the Cisco Collaboration Application, you will have have a way to do a local login with the default application user

cisco
Installed Applications
 Cisco Unified Communications Manager Recovery URL to bypass Single Sign On (SSO) Cisco Prime License Manager
Platform Applications
 Disaster Recovery System Cisco Unified Communications OS Administration

Administration Login with SSO Enabled

When the user logins to the for example to CUCM he will see and HTTP 302 Found as expected and 🥹 SAML tracer the Name ID format and the attribute contracted. Clear Autoscroll Filter resources

VIC I

GET

GET

POST

nupst//pingoa.cisco.necaosit/assecs/images/iogo_pingiuenuty.it.png

https://ping8a.cisco.net;9031/idp/P2Zi8/resumeSAML20/idp/SSO.ping DOST https://www.comparison.com/0442/comparison/complexity/office/comparison/complexity/comparison/complexity/comparison/complexity/comparison/complexity/comparison/complexity/comparison/complexity/

45

https://ping0a.cisco.net:9031/favicon.ico

https://ping0a.cisco.net:9031/favicon.ico

	GET https://cucm3a.cisco.net8443/ssosp/relay
SAML tracer	GET https://cucm3a.cisco.nets8443/comadmin/showHome.do
Clear Autoscoll Filter resources	http Parameters SAML
Oct rmcps://ping0a.cisco.mete0931/favico.nico GET https://ping0a.cisco.mete9031/favico.nico GET https://ping0a.cisco.mete9031/favico.nico POST https://ping0a.cisco.mete9031/favico.nico POST https://ping0a.cisco.mete9031/favico.nico POST https://ping0a.cisco.mete9031/favico.nico POST https://ping0a.cisco.mete9031/favico.nico POST https://ping0a.cisco.mete9031/favico.nico GET https://ping0a.cisco.mete9031/favico.nico GET https://cucm3a.cisco.mete843/sosp/saml/SSO/bias/cucm3a.cisco.net GET https://cucm3a.cisco.met843/sosp/relay GET https://cucm3a.cisco.net:8443/sosp/saml/SSO/alias/cucm3a.cisco.net NTTP/1.1 Host: cucm3a.cisco.net:8443/sosp/saml/SSO/alias/cucm3a.cisco.net NTTP/1.1 Host: cucm3a.cisco.net:8443 Vser-Agent: Northick 5.0 (Windows NT 6.1; rv:26.0) Gecko/20100101 Firefox/26.0 Accept: texts/ntml,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8	<pre>ntp parameters Java </pre>
Accept-Encoding: gzip, deflate Referer: https://pingOa.cisco.net:9031/idp/P2Zj8/resumeSAML20/idp/SSO.ping	<pre></pre> <pre><</pre>
Cookie: JSESSIONID-CFCD6FE36E565235A29EDF65E7F7E6D Content-Type: application/x-ruw-form-urlencoded	SAML tracer
Content-Length: 3965 NTTP/7.7 302 Found	Clear Autoscroll Filter resources ver mapszypinguechockmeassuesses/images/augo_pinguerracy.cpmg Get https://pinguechockmeassuesses/images/augo_pinguerracy.cpmg Get https://pinguechockets031/favicon.ico
Set-Cookie: JSESSIONID=FBB147255343DD768ESF997161535BAB; Path=/ssosp/; Secure; HttpOnly Location: https://cucm3a.cisco.net:8443/ssosp/relay Content-Length: 0 Date: Wed, 18 Dec 2013 16:49:31 GNT	GET https://pigilac.isco.net89413/rsvicon.ico POST https://pigilac.isco.net89313/ng/v228/rstume5AML20/idp/SSO.ping POST https://cum3a.cisco.net8443/ssop/sam/VSSO/lais/cucm3a.cisco.net GET https://cucm3a.cisco.net8443/scomp/relay GET https://cucm3a.cisco.net8443/scomp/relay
	http Parameters SAML <saml:authnstatement <br="" sessionindex="f.I-t07YG1kUIwB3ObJP4H-tiO9">AuthnInstant="2013-12-18T16:49:41.922Z" <saml:authncontext></saml:authncontext></saml:authnstatement>
Success	<pre><sem1:authncontextclassref>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</sem1:authncontextclassref></pre>
BRKUCC-2664 2014 Cisco and/or its affiliates. All rights re	<pre><saml:attributevalue <br="" xsi:type="xsistring">xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</saml:attributevalue></pre>

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Enabling SAML SSO Cloud

WebEx Integration for SSO 1. Get the metadata from the SP (WebEx)

Need to get the metadata from the WebEx site in the SSO configuration

webex	Site A	dministration	
Home			This file
Inome	SSO Configuration		
Manage Site Site Settings Tracking Codes	Site Certificate Manager		exchang
Company Addresses Email Templates	Federated Web SSO Configuration		0
Meetings in Progress SSO Configuration			
Manage Users 🔨	Federation Protocol:	SAML 2.0 V	This file
Add User Edit User List	SSO Profile: SP Initiated 		
Import/Export Users	AuthnRequest Signed		
Edit Privileges Send Email to All	IdP Initiated		
Session Types	Target page URL Parameter:	TARGET	 Nam
Add Custom Type		Import SAML Metadata	- Tean
Session Type List Assistance	WebEx SAML Issuer (SP ID):	http://www.webex.com *	reco
Help	Issuer for SAML (IdP ID):	*	IECO
	Customer SSO Service Login URL:	*	urn:oasis
Log out	You can export a SAML metadata WebEx SP configuration file:	Export 4	um.0031
	NamelD Format:	Unspecified	
	AuthnContextClassRef.	um:oasis:names:tc:SAML:2.0:ac:classes:PasswordProtectedTranspt *	
	Default WebEx Target page URL:	unidasisinames.tc.SAML2.0.ac.classes.PasswordProtected Hanspr	 Loca
	Customer SSO Error URL:		
			https://<
	Single Logout		me>
	Auto Account Creation Auto Account Update		11102
	Remove uid Domain Suffix for Active Directory UPN		14/1
 <md:spssodescrip< li=""> <md:keydescrip< li=""> </md:keydescrip<></md:spssodescrip<>	ntityID="http://www.webex.com" xmlns:md="urn:oasis: tor protocolSupportEnumeration="urn:oasis:names:tc:SAMI ptor use="signing"> xmlns:ds="http://www.w3.org/2000/09/xmldsig#">	names:tc:SAML:2.0:metadata"> .:2.0:protocol" WantAssertionsSigned="true" AuthnRequestsSigned="	• Wha
		CSqGSIb3DQEBBQUAMDQxCzAJBgNVBAYTAlVTMSUwIwYDVQQD	ExxX
<td>i09Data></td> <td></td> <td></td>	i09Data>		
<td></td> <td></td> <td></td>			
<md:nameidfo< td=""><td>rmat>urn:oasis:names:tc:SAML:1.1:nameid-format:unsp</td><td></td><td></td></md:nameidfo<>	rmat>urn:oasis:names:tc:SAML:1.1:nameid-format:unsp		
	rmat>urn:oasis:names:tc:SAML:1.1:nameid-format:ema		
	rmat>urn:oasis:names:tc:SAML:1.1:nameid-format:X509 rmat>urn:oasis:names:tc:SAML:2.0:nameid-format:entit		
<md:nameidfo< td=""><td>rmat>urn:oasis:names:tc:SAML:2.0:nameid-format:pers</td><td>istent</td><td></td></md:nameidfo<>	rmat>urn:oasis:names:tc:SAML:2.0:nameid-format:pers	istent	
		://uc8sevtlab13.webex.com/dispatcher/SAML2AuthService?	
siteuri=uca <td>Bsevtlab13" Binding="urn:oasis:names:tc:SAML:2.0:bindi</td> <td>ngs:HTTP-POST/></td> <td></td>	Bsevtlab13" Binding="urn:oasis:names:tc:SAML:2.0:bindi	ngs:HTTP-POST/>	
- <md:organization></md:organization>			
	onName xml:lang="en">Cisco WebExonDisplayName xml:lang="en">Cisco WebEx <td></td> <td>s reserved.</td>		s reserved.
<md:organizati< td=""><td>onDisplayName xmittang= en >CISCO webexonURL xmltlang="en"/></td><td>uonoispiayitames</td><td></td></md:organizati<>	onDisplayName xmittang= en >CISCO webexonURL xmltlang="en"/>	uonoispiayitames	

This file will provide the certificates required to exchange HTTP information

This file also provides information on what is the :

• NameID formats accepted by the Webex Site, we recommend the use of urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified

Location of the Service https://<SiteName>.webex.com/dispatcher/SAML2AuthService?siteurl=<SiteNa me>

What kind of SAML binding we are going to use

SAML 2.0 using HTTP-POST

Cisco Public



WebEx Integration for SSO 2. Configuring the IdP (IdP and SP Components)

Most of the vendors always have two major tasks that together define the agreement between the IdP<->SP:

1. When configuring the IdP part, we need to define what authentication mechanism we are going to use.

2. With the metadata xml file that we got from WebEx we configure the SP component

 Main ☆ Manage IdP Ad 	Manage IdP Adapter Instances							SP Connection Connection Options Gen	_			
	e uses adapters to authenticate users to your partners' applications. Here you	an manage "instances" of adapte	rs that SP					ormation for your SP connecti				
INSTANCE NAME	INSTANCE ID	TYPE					Connection Status	Active O Inactive				
ADLDAP	ADLDAP	HTTP Basic IdP Adapter					SP Connection					
ADLDAPForm	ADLDAPForm	HTML Form IdP Adapter					CONNECTION TO					
ADDC	ADDC	MA.IdP Adapter 3.1	Circle	e of Trust (2 Item(s))			Connection Role Browser SSO Profi	*1	SP			
Create New Instand	ce		New.	Delete			Protocol Connection Templa		SAML No Terr			
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Name 🔺 Entit	es		WS-Trust STS		false			
			_	CUCM cucr	n3a.cisco.net saml2		Outbound Provision	-	false			
					MOpenAM saml2		Browser SSO		true			
					dOpenAM saml2 evtlab14 saml2		Attribute Query		false			
				008	evilap i 4jsamiz		GENERAL INFO Patrie's Entity D	Connection Ph	current de	a.cisco.net		
							Base URL	pannecton by		a craco nel /cucm3a cisco nel 84	143	
							Browser SSO					
			Entity	Providers (4 Item(s))			SAML PROFILES					
			New.	. Delete Import Ent	ty		IdP-Initiated SS0 IdP-Initiated SL0		faise faise			
			≶ 8	Name	Protocol	Тур	e 🛆	Location	I	Realm		
				CloudOpenAM	SAMLv2	IDP		Hosted	1	r		
				cucm3a.cisco.net	SAMLv2	SP		Remote	1	r		Cisco
				CUCMOpenAM	SAMLv2	IDP		Hosted	1	r	_	
	BRKUCC-2664	© 2		uc8sevtlab14	SAMLv2	SP		Remote		r	_	

WebEx Integration for SSO

3. Export the metadata from the IdP

Similar to what we did in the beginning with the WebEx Site we are going to export the metadata of the IdP to enable SSO on the SP (SP)

<md:EntityDescriptor xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" entityID="cisco.net" cacheDuration="PT1440M"</pre>

Cisco Public

In our example we export the metadata from PingFederate SP and we include the X509 certificate, binding services and locations

ID="Z281xzhf4TNUVxLEFOjrrmTv48K">

					<pre>- <ds:signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#"> - <ds:signedinfo></ds:signedinfo></ds:signature></pre>
☆ Manage Connections					<pre><ds:transform algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"></ds:transform> <ds:transform algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"></ds:transform></pre>
		ns to your partner SPs. Use the cifying a single, global logging .		ter the connection list. You can also override the	 <ds:digestmethod algorithm="http://www.w3.org/2000/09/xmldsig#sha1"></ds:digestmethod> <ds:digestvalue>HP4w+120KAa+EjzX0xamioFOmiU=</ds:digestvalue>
CONNECTION NAME -	CONNECTION ID -	All	STATUS -	ACTION	 J5vTAf2E1pJA8EMFDdjwsiKwkigVqJKR5SmevXU/P4HvdYuZCnGT+MU//j/bGkt8hsm2DzGq4L
DLAB-PF	IDLAB-PF	SAML2.0	Active	In Use Copy Export Connection Export Metadata	CUXyBkUISG1QjB0FH0LVDVT3Wb+IiNS5jeTxmxBXBCGFFAHjiiwOskNE9igM0nRWUcAJjbWhyaW1 p+CJNxArG
PCA0a	PCABa	SAML2.0	Active	In Use Copy Export Connection Export Metadata	
PCPDa	PCP0a	SAML2.0	Active	In Use Copy Export Connection Export Metadata	 <md:idpssodescriptor 09="" 2000="" http:="" protocolsupportenumeration="urn:oasis:names:tc:SAML:2.0:protocolSupportEnumeration=" urn:oasis:names:tc:saml:2.0:protocolsupportenumeration="urn:oasis:names:tc:SAML:2.0:protocol
</td></tr><tr><td>Ӯ cucm3a.cisco.net</td><td>cucm3a.cisco.net</td><td>SAML2.0</td><td>Active</td><td>In Use Copy Export Connection Export Metadata</td><td>- <ds:KeyInfo xmlns:ds=" wantauthnrequestssigned="false" www.w3.org="" xmldsig#"=""></md:idpssodescriptor>
У cup1a.cisco.net	cup1a.cisco.net	SAML2.0	Active	In Use Copy Export Connection Export Metadora	 <ds:x509data></ds:x509data> <ds:x509certificate>MIICOzCCAaSgAwIBAgIGAUB49tFUMA0GCSqGSIb3DQEBBQUAMGExCzAJBgNVBAYT</ds:x509certificate>
http://www.webex.com	http://www.webex.com	SAML2.0	Active	In Use Copy Export Connection Export Metadata	
🛇 ucxn1 a.cisco.net	ucxn1a.cisco.net	SAML2.0	Active	In Use Copy Export Connection Export Metadata	
					<md:nameidformat>urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified</md:nameidformat>

<?xml version="1.0"?>

POST"/> <md:SingleSignOnService Location="https://pingOa.cisco.net:9031/idp/SSO.saml2" Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Double states and the states and

- Redirect"/>
- </md:IDPSSODescriptor>
- <md:ContactPerson contactType="administrative"> <md:Company>Cisco</md:Company>
 - <md:GivenName>Paulo</md:GivenName>
 - <md:SurName>Jorge Correia</md:SurName>

WebEx Integration for SSO 4. Import the metadata from the IdP

Change the AuthContextClassDef to urn:oasis:names:tc:SAML:2.0:ac:classes:Unspecified

Now back to the WebEx configuration we will import the metadata from the IdP.

After the Importing you will notice that information on IdP ID, Login URL and Certificated fulfill

webex		Site Administration	Home
Home	SSO Configuration		Manage Site
Manage Site <u>Site Settings</u> Tracking Codes Company Addresses Email Templates	Sto Configuration Site Certificate Manager Federated Web SSO Configuration		Tracking Codes Company Addre Email Templates Meetings in Prog SSO Configurati Manage Users
Meetings in Progress SSO. Configuration Manage Users Add User Edit User List Import/Export Users Edit Privileges	Federation Protocol: SSO Profile:	SAML 2.0 v	Add User Edit User List Import/Export U Edit Privileges Send Email to Al Session Types
Send Email to All Session Types Add Custom Type Session Type List	○ IdP Initiated Target page URL Parameter: ————————————————————————————————————	TARGET	Add Custom Type Session Type Li Assistance Help
Assistance Help	WebEx SAML Issuer (SP ID): Issuer for SAML (IdP ID): Customer SSO Service Login URL:	http://www.webex.com	Log out
<u>Log out</u>	You can export a SAML metadata WebEx SP configuration file: NameID Format: AuthnContextClassRef. Default WebEx Target page URL:	Export Unspecified v um:oasis:names.tc:SAML:2.0.ac:classes:Unspecified	
	Customer SSO Error URL: Single Logout Auto Account Creation Auto Account Update		
	Auto Account Update Remove uid Domain Suffix for Active Directory UPN		

			Site Administration
SSO Config	guration		
- Site Certificate Ma	- nager		
Federated Web	sso Configuration		
Federation Proto	col:		SAML 2.0 ¥
SSO Profile:	SP Initiated		
	AuthnRequest Signe	d	
	 IdP Initiated 		
	Target page URL Parameter		TARGET
			Import SAML Metadata
WebEx SAML Is	. ,		http://www.webex.com
Issuer for SAML			cisco.net
Customer SSO S	Service Login URL:		https://ping0a.cisco.net:9031/idp/SSO.saml2
You can export a	SAML metadata WebEx SP conf	guration file:	Export
NameID Format:			Unspecified V
AuthnContextCla	ssRef:		um:casis:names:tc:SAML:2.0;ac:classes:Unspecifie
Default WebEx T	arget page URL:		
Customer SSO			
Single Log	Site Certificate	Manager	
Auto Acco Remove uir	Issued to:	🖼 cisco.net	
	Issued by:	cisco.net	
	Version:	∨3	
	Serial number:	0140 78F6 D154	
	Signature algorithm ID:	SHA1withRSA	
	lssuer name: (CN, O, C)	CN=cisco.net, O	U=lab, O=Cisco, L=London, ST=London, C=Uł
	Validity from:	8/13/13 6:36 am	
	Valid to:	8/13/14 6:36 am	
С	Subject name: (CN, O, C)	CN=cisco.net, OI	U=lab, O=Cisco, L=London, ST=London, C=U

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Using SSO

When the user logins to the WebEx MC you will see and HTTP 302 Found as expected and the Name ID of the user login.

SAML tracer	
lear Autoscroll Filter resources	
SET https://ping0a.cisco.nets9031/favicon.ico	
SET https://ping0a.cisco.net:9031/favicon.ico	
POST https://ping0a.cisco.net:9031/idp/Sassk/resumeSAML20/idp/SSO.ping	
POST https://uc8sevtlab13.webex.com/dispatcher/SAML2AuthService?siteurl=uc8sevtlab13	SAML
SET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/default.do?siteurl=uc8sevtlab13&main_url=https%3A%2F%2Fuc	8sevtlab13.webex.com%2Fmw0306ld%2F
SET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/header.do?service=1&siteurl=uc8sevtlab13&rnd=0.09284521133	499757
25T https://www.acatish12.unhav.com/www0306ld/www.unhav/ferma/cliantasth.do?citauxl=we0catelsh13	
ttp Parameters SAML	
USCATAMENT. REALITA/J.C. (WINNEWS HI C.I. LV.20.0) SCHO/20100101 FILELOX/20.0	
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8	
Accept-Language: en-US, en; q=0.5	
Accept-Encoding: gzip, deflate	
Referer: https://pingOa.cisco.net:9031/idp/Sassk/resumeSAML20/idp/SSO.ping	ĺ
Cookie: JSESSIONID=D091&02BC4221EB04F9B3B47B37E0B&S0&E591C4B2C3D13BF300F5&DFB333&B8	;
DetectionBrowserStatus=1 1 136 0 -1 0; nebulas_tc=R3988962042; screenWidth=1680;	;
DetectionBrowserStatus=1 1 136 0 -1 0; nebulas_tc=R3988962042; screenWidth=1680; CK_CDDNHostStatus=akamaicdn.webex.com 1387376938520 1	;
DetectionBrowserStatus=1 1 136 0 -1 0; nebulas_tc=R3988962042; screenWidth=1680; CK_CDNNostStatus=akamaicdn.webex.com 1387376938520 1 Content-Type: application/x-uww-iorm-urlencoded	;
DetectionBrowserStatus=1 1 136 0 -1 0; nebulas_tc=R3988962042; screenWidth=1680; CK_CDDNHostStatus=akamaicdn.webex.com 1387376938520 1	3
DetectionBrowserStatus=11 1136 0 -1 0; nebulas to=R3988962042; screenWidth=1680; CK_CDNHostStatus=akamaicdn.webex.com 1387376935520 1 Content-Type: application/x-www-form-urlencoded Content-Length: 3327	2
<pre>DetectionBrowserStatus=1 1 36[0]-1 0; nebulas to=R3988962042; screenWidth=1680; CK_CNNBotStatus=akanaicdn.vebsz.com[13837765935520]1 Content-Type: application/x-www-form-urlencoded Content-Length: 3327 HTTP/?.7 302 Found</pre>	;
DetectionBrowserStatus=111136101-110; nebulas to=R3988962042; screenWidth=1680; CK_CDNMostStatus=akamaicdn.webex.com 1387376938520 1 Content-Ingpe: application/x-www-form-urlencoded Content-Length: 3327 HTTP/?. 302 Found Date: Wed, 18 Dec 2013 14:29:18 GMT	2
<pre>DetectionBrowserStatus=1 1 36[0]-1 0; nebulas to=R3988962042; screenWidth=1680; CK_CNNBotStatus=akamaicdn.vebex.com[13837765935250]1 Content-Type: application/x-www-form-urlencoded Content-Length: 3327 HTTP/7. 302 Found Pate: Wed, 18 Dec 2013 14:29:18 GMT Server: Apache-Coyote/1.1</pre>	
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DetectionBrowserStatus=11[1]36[0]-1[0; nebulas_tc=R3989862042; screenWidth=1680; CK_CNNBotStatus=akamaicdn.vebex.com[13837765935250]1 Content-Type: application/x-www-form-urlencoded Content-Length: 3327 HTTP/?.7 302 Found Date: Wed, 18 Dec 2013 14:29:18 GHT Server: Apache-Coyote/1.1 Location: https://uc8sevtlab13.webex.com:443/mw03061d/mywebex/default.do?siteurl=ucf 43A27	5sevtlab13 & main_url=https
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<pre>DetectionBrowserStatus=11[1]36[0]-1[0], nebulas to=R3989862042; screenWidth=1680; CK_CNNBotStatus=akamaicdn.vebex.com[1383736535520]1 Content-Type: application/x-www-form-urlencoded Content-Type: application/x-www-form-urlencoded Pate: Wed, 18 Dec 2013 14:29:18 GHT Server: Apache-Coyotch.1 Location: https://uc8sevtlab13.webex.com:443/mw03061d/mywebex/default.do?siteurl=uc6 43A427 42Fuc8sevtlab13.webex.com#2Fmw03061d42Fmywebex42Flogin.do%3FfromS50%3Dtrue%2 Content-Length: 0 Set-Cookle: nebulas tc=R3980962042; path=/ CK LanguageID 51732071; Expires=Thu, 18-Dec-2014 14:29:18 GHT, Path=/; Secure</pre>	Ssevtlab13 & main_url=https
<pre>DetectionBrowserStatus=11[1]36[0]-1[0].nebulas_tc=R3988962042; screenWidth=1680; CK_CNNiotStatus=akamaicdn.webex.com[130376395302]1 Content-Type: application/x-www-form-urlencoded Content-Length: 3327 HTTP/?; 302 Found Date: Wed, 18 Dec 2013 14:29:18 GHT Server: Apache-Coyote/1.1 Location: https://websevtlab13.webex.com:443/mw03061d/mywebex/default.do?siteurl=ucd %3A227 %27uc8sevtlab13.webex.com%2Fmw03061d%2Fmywebex%2Flogin&Co%3FfromS50%3Dtrue%2 Content-Length: 0 Set-Cookie: nebulas_tc=R3988962042; path=/ CK_LanguageID_S17920=1; Expires=Thu, 18-Dec-2014 14:29:18 GHT; Path=/; Secure CK_TimeZone_S17920=1; Expires=Thu, 18-Dec-2014 14:29:18 GHT; Path=/; Secure</pre>	Ssevtlab13 & main_url=https
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POST https://uc8sevtab13.webex.com/dispatcher/SAML2AuthService?isteurl=uc8sevtab13 SAML9 GET https://uc8sevtab13.webex.com/mo306ld/mywebex/defult.do?isteurl=uc8sevtab138cmain_url=https:%38%2F%2Fuc8sevtab13webex.com%2Fmw0306ld%2F GET https://uc8sevtab13.webex.com/mo306ld/mywebex/defult.do?isteurl=uc8sevtab138cmain_url=https:%38%2F%2Fuc8sevtab13webex.com%2Fmw0306ld%2F Thtps://uc8sevtab13.webex.com/mo306ld/mywebex/defult.do?isteurl=uc8sevtab138cmain_url=https:%38%2F%2Fuc8sevtab13webex.com%2Fmw0306ld%2F ET https://uc8sevtab13.webex.com/mo306ld/mywebex/header.do?isteurl=uc8sevtab138cmain_url=https:%38%2F%2Fuc8sevtab13webex.com%2Fmw0306ld%2F ET https://uc8sevtab13.webex.com/mo306ld/mywebex/header.do?isteurl=uc8sevtab138cmain_url=https:%38%2F%2Fuc8sevtab13webex.com%2Fmw0306ld%2F ET https://uc8sevtab13.webex.com/mo306ld/mywebex/header.do?isteurl=uc8sevtab138cmain_url=https:%38%2F%2Fuc8sevtab13	SAML tracer Clear Autoscroll Filter resources			
POST http://jngB.stics.net933/jdg/Sask/resumeSAML20/dg/SSD.png POST http://clsavdbb13webec.com/fmg306d/rywebe2/dfauld.doi.tcunauc8sedbb13 Thtp://clsavdbb13webec.com/rmm306d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedbb13.webec.com/rmm3086d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedbb13.webec.com/rmm3086d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedbb13.webec.com/rmm3086d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedbb13.webec.com/rmm3086d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedbb13.webec.com/rmm3086d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedbb13.webec.com/rmm3086d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedbb13.webec.com/rmm3086d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedbb13.webec.com/rmm3086d/rywebe2/headd.doi.tcunauc8sedbb13@rmin_unl=http:/SASK2F92Fuc8sedb13@rmin_unl=http:/SASK2F92Fuc8sedb13@rmin_unl=http:/SASK2F92Fuc8sedb13@rmin_unl=http:/S	GET https://ping0a.cisco.net:9031/favicon.ico			^
<pre>POST http://ucisextballawebex.com//m0306id/mywebed/shuthsucisextballawmisu/inhttp://s2AAx2F%2Fucisextballawebex.com//w0306id/mywebed/shuthsub/setwtballawmisu/inhttp://s2AAx2F%2Fucisextballawebex.com//w0306id/mywebed/shuthsub/setwtballawmisu/inhttp://s2AAx2F%2Fucisextballawebex.com//w0306id/mywebed/shuthsub/setwtballawebex.com//w0306id/setwtballawebex.com//saml:Shuthsub/setwtballawebex.com//saml:NameID> </pre>	GET https://ping0a.cisco.net:9031/favicon.ico			
GET http://wcfsextball.subsc.com/mwd30fd/mywebcs/defaulta/orkeur/suc2sextball2/mnin_uni=http://s23ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s23ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2Fmwd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2FmWd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball2/mnin_uni=http://s2ASc2FW2Fuc2sextball3.websc.com/%2FmWd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball3/wbecsc.com/%2FmWd30fd/mywebcs/header.do?envice=ldsiteurlaus8sextball3/wbecsc.com/%2FmWd30fd/mywbcs/header.do?envice=ldsiteurlaus8sextball3/wbecsc.com/%2FmWd30fd/mywbcs/header.do?envice=ldsiteurlaus8sextball3/wbecsc.com/%2FmWd30fd/mader.do?envice=ldsiteurlaus8sextball3/wbecsc.com/%2FmWd30fd/mader.do?envice=ldsiteurlaus8sextball3/wbecsc.com/%2FmWd30fd/mader.do?envice=ldsiteurlaus8sextball3/wbecsc.com/%2FmWd30fd/mader.do?envice=ldsiteurlaus8sextball3/w	POST https://ping0a.cisco.net:9031/idp/Sassk/resumeSAML20/idp/SS	3O.ping		
<pre>GET http://uclsexthall.webex.com/nw0306id/nwwebex/head.nd?ienciel&itturl=uclsexthal3&md=0.09284521133499757 ttp://uclsexthal3webex.com/nw0306id/nwwebex/head.nd?ienciel&itturl=uclsexthal3&md=0.09284521133499757 ttp://uclsexthal3webex.com/nw0306id/nwwebex/head.nd?ienciel&itturl=uclsexthal3&md=0.09284521133499757 ttp://uclsexthal3webex.com/nw0306id/nwwebex/head.nd?ienciel&itturl=uclsexthal3&md=0.09284521133499757 ttp://uclsexthal3webex.com/nw0306id/nwwebex/head.nd?ienciel&ad.nd?ienciel</pre>	POST https://uc8sevtlab13.webex.com/dispatcher/SAML2AuthService	e?siteurl=uc8sevtlab13	SA	ML
<pre>2GT Less(f):01:02:03:03:03:03:03:03:03:03:03:03:03:03:03:</pre>	GET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/default.c	do?siteurl=uc8sevtlab13&main_url=https%3A%2F%2Fu	c8sevtlab13.webex.com%2Fmw0306ld%2	!F 🗏
ttp Parametes SAML c/ds:Signature> <ds:signature> <saml:subjectconfirmation method="urn:oasis:names:tc:SAML:1.1:nameid=format:unspecified">paucorre <saml:subjectconfirmation method="urn:oasis:names:tc:SAML:1.0:orm:bearer"> <saml:subjectconfirmation method="urn:oasis:names:tc:SAML:1.0:orm:bearer"> <saml:subjectconfirmation method="urn:oasis:names:tc:SAML:1.0:orm:bearer"> <saml:subjectconfirmation method="urn:oasis:names:tc:SAML:1.0:orm:bearer"> <saml:subjectconfirmation method="urn:oasis:names:tc:SAML:1.0:orm:bearer"> <saml:subjectconfirmationdata <br="" recipient="https://ucBsevtlab13.webex.com/dispatcher
/SAML:AuthService?siteurl=ucBsevtlab13">NotOnOrAtter="2013-12-18T14:34:20.3952" <saml:subjectconfirmation> <saml:audiencerestriction> <saml:audiencerestriction> </saml:audiencerestriction> </saml:audiencerestriction></saml:subjectconfirmation></saml:subjectconfirmationdata></saml:subjectconfirmation></saml:subjectconfirmation></saml:subjectconfirmation></saml:subjectconfirmation></saml:subjectconfirmation></saml:subjectconfirmation></ds:signature>			3499757	
<pre>c/ds:Signature> <td>GET https://www.elah12.com/www.ficamo/cl</td><td>lianteath da?citaud=uc9catelah12</td><td></td><td>-</td></pre>	GET https://www.elah12.com/www.ficamo/cl	lianteath da?citaud=uc9catelah12		-
<pre></pre>	ttp Parameters SAML			
<pre> <td>IJNJ6303D3BAHIOA633</td><td></td><td></td><td></td></pre>	IJNJ6303D3BAHIOA633			
<pre> (sam1:Subject) (sam1:SubjectOnfirmation Method="urn:osis:names:tc:SAML:1.1:nameid=format:unspecified">paucore</pre>			1	^
<pre> (saml:NumeID Format="urn:oasis:names:tc:SAML:1.1:name:id=forma::unspecified">paucorre (saml:SubjectConfirmationData Pecipient="https://uc8sevtlab13.vebex.com/dispatcher</pre>				
<pre> (sam1:SubjectConfirmation Method="urn:osais:names:tc:SAHL:2.0:cm:bearer"></pre>				
<pre></pre>				>
/SAML2AuthService?siteurl=ucSsevtlab13" NotOnOrAfter="2013-12-18T14:34:20.3952" InResponseTo="s2255baed076682a6ffae42145e37b01601 %baf8" /> motonOrAfter="2013-12-18T14:24:20.3952" NotOnOrAfter="2013-12-18T14:34:20.3952" <saml:audiencerestriction> <saml:audiencerestriction> <saml:audiencerestriction> <saml:audiencerestriction></saml:audiencerestriction></saml:audiencerestriction></saml:audiencerestriction></saml:audiencerestriction>				
NotOnCrAtter="2013-12-18T14:34:20.3952" InResponseTo="s2255baed078682a6ffae42145e37b01601*3baf8" NotOnCrAtter="2013-12-18T14:34:20.3952" 		Recipient="https://uc8sevtlab13.webe>	k.com/dispatcher	
InResponseTo="s2255baed076682a6ffae42145e37b01601 %baf8" NotOnOrAtter"2013-12-18T14:34:20.3952" <saml:audiencerestriction> <saml:audiencerestriction> </saml:audiencerestriction> </saml:audiencerestriction> 				
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<td></td> <td>/></td> <td></td> <td></td>		/>		
<pre><saml:conditions <="" notbefore="2013-12-18T14:24:20.3952" notonorafter="2013-12-18T14:34:20.3952" saml:audiencerestriction=""> <td></td><td></td><td></td><td></td></saml:conditions></pre>				
NotOnOrAfter="2013-12-18T14:34:20.3952" <saml:audiencerestriction> <saml:audiencerestriction> </saml:audiencerestriction> </saml:audiencerestriction>		T14:24:20.3957"		
<saml:audiencerestriction> <saml:audiencepttp: saml:audience="" www.webex.com<=""> </saml:audiencepttp:></saml:audiencerestriction> 	NotOnOrAfter="2013-12-	-18T14:34:20.395Z"		
<saml:audience>http://www.webex.com</saml:audience> 	>			-
 	<saml:audiencerestriction></saml:audiencerestriction>			-
	<saml:audience>http://www.webe></saml:audience>	x.com		
<pre><sam1:authnstatement: 28="" authninstant="2013-12-18114:29:20.3942" pre="" received<="" requests="" sessionindex="%ZZwJLkY4N91qrv2_Z5rUVyv910" success=""></sam1:authnstatement:></pre>				
28 requests received Great			Creat	
28 requests received Success		3-12-18T14:29:20.394Z"	Great	
28 requests received Success	>			
Success	28 requests received		Cuesasa	
			Success	
				24

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Option	Description
Manual updates through Org Admin	Admin can use Org Admin to manually update user accounts
File import to Org Admin	 Admin can create and update accounts by importing a change file into Org Admin
Directory Integration (FTP approach and will be depreciated soon)	 Semi-automatic method for creating, updating and deactivating user accounts and groups. Customer creates scripts to capture account changes in their Active Directory. The change files are uploaded to a WebEx FTP server and automatically imported into Connect user DB Advanced Services engagement
Single Sign-On	 SSO can be configured to automatically create accounts when user logs- in to Connect for the first time SAML assertion provides user information Accounts can be created and updated but not deactivated



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WebEx User Account Creation and Update

To enable the provision using SAML we need :

- Change the WebEx site configuration to enable the creation and update
- Add extra attributes in the IdP to the Synchronisation agreement (email, firstname, lastname, uid and updateTimeStamp)

vebex [®]		Site Administration
tome	SSO Configuration	
Manage Site Site Settings Tracking Codes	Site Certificate Manager	
Company Addresses Email Templates Meetings in Progress SSO Configuration	Federated Web SSO Configuration	
Manage Users Add User Edit User List Import/Export Users Edit Privileges Send Email to All	Federation Protocol: SSO Profile:	SAML 2.0 V
Session Types Add Custom Type	Target page URL Parameter:	TARGET
Session Type List Assistance	WebEx SAML Issuer (SP ID):	http://www.webex.com
Help	Issuer for SAML (IdP ID):	cisco.net
	Customer SSO Service Login URL:	https://ping0a.cisco.net:9031/idp/SSO.saml2
Log out	You can export a SAML metadata WebEx SP configuration file:	Export
	NameID Format:	Unspecified v
	AuthnContextClassRef:	um:oasis:names:tc:SAML:2.0:ac:classes:Unspecified
	Default WebEx Target page URL:	
	Customer SSO Error URL:	
	Single Logout	
	Auto Account Creation	
	Auto Account Update	

Remove uid Domain Suffix for Active Directory UPN

🙃 Main	SP Connec	ction 💿 Bro	wser SSO	Asse	ertion Creation
Identity Mapping	🛧 Attribute Contract	IdP Adapter Mapping	g Summary		
An Attribute Contract is a set of user attributes that this server will send in the assertion.					
ATTRIBUTE CONTR	ACT SUBJECT NA	ME FORMAT			
SAML_SUBJECT	urn:oasis:na	ames:tc:SAML:1.1:name	id-format unspecified	k	~
	•				
EXTEND THE CON	FRACT ATTRIBUTE N	AME FORMAT			ACTION
email	um:oasis:name	es:tc:SAML:2.0:attmame-	format:basic		Edit / Delete
firstname	um:oasis:name	es:tc:SAML:2.0:attmame-	format:basic		Edit / Delete
lastname	um:oasis:name	es:tc:SAML:2.0:attrname-	format:basic		Edit / Delete
uid	um:oasis:name	es:tc:SAML:2.0:attmame-	format:basic		Edit / Delete
updateTimeStamp	um:oasis:name	es:tc:SAML:2.0:attmame-	format:basic		Edit / Delete



What is the Result when the Users Login with Auto Account Creation and Update Enabled

When the user logins to the WebEx MC, in the SAML tracer you will see and HTTP 302 Found as expected, the Name ID of the user login and we have information on the attributes contracted.

SAML tracer		SAML tracer
Clear Autoscroll Filter resources		Clear Autoscroll Filter resources
Viear Autoscroll Filter resources POST https://pingue.co.co.necsiosanup/jimcm/resourcesawiczo/up/soc.ping		Liear Autoscroll Filterresources
POST https://uc8sevtlab13.webex.com/dispatcher/SAML2AuthService?siteurl=uc8sevtl	b13 SAML	POST https://uspachscom/dispatc
GET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/default.do?siteurl=uc8sev		GET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/default.do?siteurl=uc8sevtlab13&main_url=https:%3A%2F%2Fuc8sevtlab13.webex.com%2Fmw0306ld%2F
GET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/header.do?service=1&site	xrl=uc8sextlab13&xrnd=0.6627578711603155	GET http://uciseduatibilis/metac.com/mm/306id/mywebex/header.doi/secinic=16xiteuries/uciseduation/meta-meta-meta-meta-meta-meta-meta-meta-
GET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/login/login.do?fromSSO	SAML tracer	
		GET http://usisedutablawebe.com/mw0306id/mywebex/frame/citempath.do?siteurlauc8sedtabla
GET https://uc8sevtlab13.webex.com/mw0306id/mywebex/ptinstall.do?siteurl=uc8s		OFT https://ucisevdabls/webex.com/mw0300/mwebex/taitsile/iseusleusievabls/section=autoinstall⌖=top@returnUrl=https://acisevdabls/aciton=autoinstall⌖=top@returnUrl=https://
http Parameters SAML	6021 urdbastburdbartiscomeraaztstrabyLurcusterameraandbazochuid	let nopsy/acsevabls/webs/com/mwsbol//mywebs/punstan.uo/siteur=acsevabls/action=action/stanctarget=up/aretumon=nops/site/acsevabls/action=action/stanctarget=up/aretumon=nops/site/action/stanctarget=up/aretumon=no
	POST https://uc8sevtlab13.webex.com/dispatcher/SAML2AuthService?siteurl=uc8sevtlab13	http: Parameters SAML
POST https://uc8sevtlab13.webex.com/dispatcher/SAML2AuthS	GET https://uc8sevtlab13.webex.com/mw0306id/mywebex/default.do?siteurl=uc8sevtlab13&main_url=https%3A%2F%2Fuc8sevtlab13.webex.com%2Fmw030	
Host: uc8sevtlab13.vebex.com	GET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/header.do?service=1&siteurl=uc8sevtlab13&md=0.6627578711603155	<saml:authncontextclassref>urn:oasis:names:tc:SAML:2.0:ac:classes:unspecified</saml:authncontextclassref>
User-Agent: Nozilla/5.0 (Windows NT 6.1; rv:26.0) Gecko/2		<pre></pre> <pre><</pre>
Accept: text/html, application/xhtml+xml, application/xml;q Accept-Language: en-US, en;q=0.5		saml: authnStatement
Accept-Encoding: gzip, deflate	GET https://uc8sevtlab13.webex.com/mw0306ld/mywebex/ptinstall.do?siteurl=uc8sevtlab13&action=autoinstall⌖=top&returnUrl=https%3A//uc8sevtlab13&action=autoinstal13&action=autoinstal13&action=autoinstal13&action=autoinstal13&action=autoinstal13&action=autoinstal13&action=autoin	<pre></pre>
Bedennes Seener (/stands stand see (0001//ds/strat/seener)	Internet Development and SAMI	<saml:attribute <="" name="uid" td=""></saml:attribute>
Cookie: JSESSICNID=5F0941256FEB5A3AE2075F6B39486AE6929B50 DetectionBrowserStatus=1 1 336 0 -1 0; CK LanguageID 5179		NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:basic"
screenWidth=1680; CK CDNHostStatus=akamaicdn.webex.com/13		>
Content-Type: application/x-www-form-urlencoded		<saml:attributevalue <="" td="" xsi:type="xs:string"></saml:attributevalue>
Content-Length: 5349	1L4W4SfecA92 jP5321qten4tvn7WXSLMDy1W77K6VIg6oP1D0eXmb/kvS+wijtDIB0aGOMkBBv1v	<pre>xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema-instance"</pre>
HTTP/?.? 302 Found	/okcT+OeCvDxXBtBNn11G3YXv5LI1KyGDF1NBe11eOOohc15t14IQ0JEh+p5YkpUBvP8BevDFwtm	>paccore@ucosevtlabi3.com/samistributeValue>
Date: Wed, 18 Dec 2013 15:20:56 GHT	NsL8M/TJ98NqtokH+LU=	
Server: Apache-Coyote/1.1		<pre><sam1:attribute <="" name="email" pre=""></sam1:attribute></pre>
Location: https://uc8sevtlab13.webex.com:443/mw03061d/myw 43142F		NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:basic"
<pre>%31%2F %2Fuc8sevtlab13.webex.com%2Fmw03061d%2Fm %bex%2Flogin%2F</pre>	<sam1:subject></sam1:subject>	>
Content-Length: 0	<pre><saml:nameid format="urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified">paucorrepaucorrepaucorrepaucorrepaucorrepaucorrepaucorrepaucorrepaucorrepaucorrepaucorre</saml:nameid></pre>	
Set-Cookie: nebulas tc=R1239364338; pat	<saml:subjectconfirmation method="urn:oasis:names:tc:SAML:2.0:cm:bearer"></saml:subjectconfirmation>	xmlns:xs="http://www.w3.org/2001/XMLSchema"
	<pre><saml:subjectconfirmationdata <="" pre="" recipient="https://uc8sevtlab13.webex.com/dispatcher /SAML2&uthService?siteurl=uc8sevtlab13"></saml:subjectconfirmationdata></pre>	xmlns:xs1="http://www.w3.org/2001/XHLSchema-instance" >paucorre@uc6sevtlabl3.com
42 requests received	NotOnOrAfter="2013-12-18T15:25:58.5502"	<pre>>paulofregulossevilabis.com</pre>
	InResponseTo="s28c98ca89050a2a85a297dc759a3657c79849b49"	<pre></pre> <sam::httribute <="" name="lastname" pre=""></sam::httribute>
	/>	NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:basic"
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Great		<pre></pre> <saml.kttribute <="" name="firstname" pre=""></saml.kttribute>
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7 Success		<saml:attributevalue <="" td="" xsi:type="xs:string"></saml:attributevalue>
0000033		xmlns:xs="http://www.w3.org/2001/XMLSchema"
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		>Paulo Jorge
		NameFormat "unicosis names:tc:SAML:2.0:attrname-format:basic"
		<saml: <="" attributevalue="" td="" xsi:type="xs:string"></saml:>
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BRKUCC-2664	© 2014 Cisco and/or its affiliates. All rights reserved.	xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
DIVINOCC-2004	© 2014 Cisco and/or its anniates. An fights reserved.	>20131218141019.02 54

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Key Takeaways

What Will This Identity Architecture Bring Us?

- Align with market standards
- Integration of Cisco Collaboration Architecture in the broader Identity architecture of our customers.
- The same user identity for on premise and cloud services
- Eliminate mismatch in user attributes between the different collaboration products
- Bring more synergies between collaboration products.



Key Takeaways

- Your customer identity strategy should not be focus only in the collaboration application, but should cover all their IT applications.
- With some many ways of deploying and consuming applications, your customer should understand that following standards is the only way to deliver identity services, inside and outside the organisation and for any kind of device.
- The need for security and compliance rules is a must today, and a consolidated identity solution for all the apps in their IT deployment, is the base to achieve that goal



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Q & A

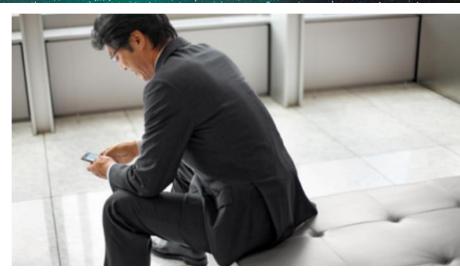
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