GETTING STARTED GUIDE



ALCATEL-LUCENT RAINBOW[™]

ADFS Configuration guide

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Glossary

ALE:	Alcatel-Lucent Enterprise
SSO:	Single Sign On
ADFS:	Active Directory Federation Service
SAML:	Security assertion markup language
IDP:	Identity Provider

1 Introduction

This guide provides technical description to configure ADFS Single Sign On (SSO) with Rainbow based on SAMLv2 protocol

2 Overview

Rainbow is able to use a third-party identity provider to make authentication. ADFS is a server deployed on customer premises and can be connected as identity provider on Rainbow based on SAMLv2 protocol. Once connected, all users of the company will be redirected to the ADFS login screen to connect to Rainbow.

3 History

Modifications	Date	Edition
Creation of document	13/02/2020	Ed 01
Page 6, replace der by pem format	22/09/2020	Ed 02

4 Related documents

None

5 Step 1: Configure Rainbow for ADFS

In the administration screen of Rainbow, in parameter, security tab, configure a SSO server based on SAMLv2 protocol.

Enter these parameters:

- Login URL: https://sso.adfs.your.domain.com/adfs/ls
- Logout URL (optional): let empty (restriction Rainbow side, when corrected, set it to https://sso.adfs.your.domain.com/adfs/ls) if SLO is required)
- Attribute ID : <u>http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress</u>

Attribute ID doesn't depend on the company should be always the same.

- Certificates: this certificate has to be downloaded from ADFS server:
 - On ADFS side, in the left menu,
 - Select ADFS -> Service -> Certificates
 - Select the "Token signing certificate" and click "view certificate" on the right.
 - On Details tab, click on "copy to file". Follow the wizard to export it in PEM format.
 - On rainbow side, copy the certificate content in base64 into Rainbow admin screen.
- Last step: downloads the metadata file to find the needed URLs to configure ADFS server.

6 Step 2: Configure ADFS for Rainbow using the Rainbow metadata

In ADFS home screen, on the left side, select "Relying party Trust" and "Add Relying party trust" on the right part of the screen.

6.1.1 In the creation Wizard.

- Select "Claims aware entry"
- Select Import data about relying party from a file.
- Select the Rainbow metadata xml file.

6.1.2 Claims issuance

On the right, for the new Relying party trust just created, click on the "Edit claims issuance policy". Two rules have to be created: One for NameID and one for email.

Email

- Click on "add rule".
- Select the "Send LDAP attribute as Claims"
- Set the name of the Rule as "Rainbow claims"
- Select the store as "Active Directory" and Select the email in both columns.

Steps			
	You ca	an configure this rule to send the values of L	DAP attributes as claims. Select an attribute store from which
Choose Rule Type	to extract LDAP attributes. Specify how the attributes will map to the outgoing claim types that will be issued from the rule.		
Configure Claim Rule	<u>Q</u> laim rule name:		
	Rainb	ow claims	
	Attribut Active	te <u>s</u> tore: 9 Directory	~
	<u>M</u> appir	ng of LDAP attributes to outgoing claim type	S:
	LDAP Attribute (Select or type to add more) Outgoing Claim Type (Select or ty		Outgoing Claim Type (Select or type to add more)
	F	E-Mail-Addresses ~	E-Mail Address 🗸 🗸
		~	~

NamelD

- Add rule
- Select "Transform an incoming claim".
- Set the rule name as "NameID"
- Set the "Incoming claim type" to "UPN"
- Set the "Outgoing claim type" to "NameID"
- Set the "Outgoing name ID format" to "persistent".

🏟 Add Transform Claim I	Rule Wizard	X		
Configure Rule				
Steps	You can configure this rule	to map an incoming claim type to an outgoing claim type. As an option, you can		
Choose Rule Type	also map an incoming clain outgoing claim type and wh	n value to an outgoing claim value. Specify the incoming claim type to map to the mether the claim value should be mapped to a new claim value.		
Configure Claim Rule	jure Claim Rule Qlaim rule name:			
	Name ID			
	Rule template: Transform a	n Incoming Claim		
	Incoming claim type:			
	incoming claim type.	UPN ~		
	Incoming name ID format:			
	Outgoing claim type:	Name ID ~		
	Outgoing name ID format:	Persistent Identifier ~		
	Pass through all claim v	alues		
	O <u>R</u> eplace an incoming c	aim value with a different outgoing claim value		
	Incoming claim value:			
	Outgoing claim value:	Browse		
	Replace incoming e-ma	il suffix claims with a new e-mail suffix		
	New e-mail suffix:			
		Example: fabrikam.com		
		< Previous Finish Cancel		

7 FAQ

Authentication fails with error seen on ADFS side: "the revocation function was unable to check the revocation because the revocation server was offline". Rainbow application displays a generic error as "Unknown error, please contact your administrator".

Our production SAML certificate contains a CRL URL and should be accessible from the IDP. IDP must have access to <u>http://crl.usertrust.com/GandiStandardSSLCA2.crl</u>

8 Annexes

8.1 Manual configuration of the relying party trust.

It is possible to configure the relying party manually instead of importing the metadata xml file.

In step 2, in ADFS home screen, on the left side, select "Relying party Trust" and "Add Relying party trust" on the right part of the screen.

🍿 Add Relying Party Trust	Wizard	×
Select Data Source		
Steps • Welcome • Select Data Source • Specify Display Name • Configure Certificate • Configure URL • Configure Identifiers • Choose Access Control Policy • Ready to Add Trust • Finish	Select an option that this wizard will use to obtain data about this relying party: Import data about the relying party published online or on a local network Use this option to import the necessary data and certificates from a relying party organization that publish te federation metadata online or on a local network. Ederation metadata address (host name or URL): Example: fs.contoso.com or https://www.contoso.com/app Import data about the relying party from a file Use this option to import the necessary data and certificates from a relying party organization that has exported its federation metadata to a file. Ensure that this file is from a trusted source. This wizard will no validate the source of the file. Federation metadata file location: Enter data about the relying party manually Use this option to manually input the necessary data about this relying party organization.	nes ot
	< <u>P</u> revious <u>N</u> ext > Cancel	

8.1.1 In the creation Wizard.

- Select "Claims aware entry"
- Select "Enter data about the relying party manually"
- Enter a display name as "Rainbow SSO". It is only a description.
- Skip the step to configure an encryption certificate.
- Select SAML 2.0 and enter Relying party SAML 2.0 service URL:

https://openrainbow.net/api/rainbow/authentication/v1.0/saml/59e0cad4a2dc73138298e5af/asse rt.

This URL is specific for a customer. It can be found in the Rainbow metadata downloaded in the first step.

Add Relying Party Trust	Wizard X			
Configure URL				
Steps	AD FS supports the WS-Trust_WS-Federation and SAMI_2.0 WebSSO protocols for relying parties. If			
Welcome	AD FS supports the WS-Flust, WS-Federation and SAME 2.0 WebSSO protocols for relying parties. If WS-Federation, SAML, or both are used by the relying party, select the check boxes for them and specify the			
Select Data Source	Support for the WS-Huse protocol is always enabled for a relying party.			
Specify Display Name	Enable support for the WS-Federation Passive protocol			
Madd Relying Party Trust	Wizard X			
Configure Identifiers				
Steps	Relying narries may be identified by one or more unique identifier strings. Specify the identifiers for this relying			
Welcome	party trust.			
Select Data Source	Relying party trust identifier:			
Specify Display Name	Add			
Configure Certificate	Example: https://fs.contoso.com/adfs/services/trust			
Configure URL	Rel <u>v</u> ing party trust identifiers:			
Configure Identifiers	https://openrainbow.net/api/rainbow/authentication/v1.0/saml/59e0cad4a2dc73138298e			
 Choose Access Control Policy 				
Ready to Add Trust				
Finish				
	< <u>P</u> revious <u>N</u> ext > Cancel			

 In next step, set a replying trust identifier: <u>https://openrainbow.net/api/rainbow/authentication/v1.0/saml/59e0cad4a2dc73138298e</u> <u>5af/metadata.xml</u>.

This URL is specific for a customer. It can be found in the Rainbow metadata downloaded in the first step.

- In next step, choose Access Policy: select "Permit EveryOne"
- The next screen "Ready to add trust" permits to control the entered parameters.
- In the Finish screen, be sure to check the "Configure claims issuance policy for this application" to continue the configuration.

The Relying Party trust creation wizard is finished. But some further steps have to be done.

8.1.2 Certificates

The last step is to add the Rainbow signing certificate to ADFS:

In a text editor.

- add a first line: "-----BEGIN CERTIFICATE-----"
- Select the certificate in Rainbow metadata.xml, Copy paste it in a text editor
- add a last line: "-----END CERTIFICATE-----"
- Save the file.

In ADFS,

- On the right, for the Rainbow relying party just created, click on the "Properties"
- Open the "Signature" tab
- Import the Rainbow crt file.

8.2 Optional step to enable encryption

In ADFS,

- On the right, for the Rainbow relying party just created, click on the "Properties"
- Open the "Encryption" tab
- Import the Rainbow crt file also used for signature.

8.3 Optional step to let ADFS server to request Rainbow logout.

Add a logout URL in ADFS

- On the right, for the Rainbow relying party just created, click on the "Properties"
- Open the "Endpoint" tab
- Add a new endpoint:
 - Endpoint type: SAML logout
- Binding: Redirect
- Trusted URL: (same as login URL): <u>https://openrainbow.net/api/rainbow/authentication/v1.0/saml/59e0cad4a2dc73138298e</u> <u>5af/assert</u>

End of Document