

CCH AXCESS WORKFLOW – MICROSOFT AZURE SSO SETUP



1. Introduction

This document explains the steps required for configuring XCM as relying party in Microsoft Azure AD FS and enabling SSO with Microsoft Azure as the authentication provider.

This document doesn't explain how to install/configure Active Directory or AD FS. Audiences of this document should have a good understanding about Azure, SSO, Active Directory, SAML and AD FS.

1.1. References

https://en.wikipedia.org/wiki/Active_Directory_Federation_Services https://en.wikipedia.org/wiki/Security_Assertion_Markup_Language https://en.wikipedia.org/wiki/SAML_2.0 https://en.wikipedia.org/wiki/Single_sign-on https://azure.microsoft.com/en-us/

2. Points to Consider

The following points should be considered before moving to SSO for XCM:

- ✓ XCM usernames will need to exactly match the user's UPN in AD. Those using an email alias in XCM will need to have their username changed. This can be done individually by your XCM admin, or a list can be provided to XCM of user login emails and their corresponding UPN. XCM can then run a script to update those usernames.
- ✓ Once SSO has been enabled on XCM, you will receive a specific ADFS login for your SSO users. It will work for anyone that has an active, corresponding XCM account. Users will be able to log into XCM from either the ADFS login URL or the XCM application's login page.
- Logging in from the XCM application page can be prevented. To do so, XCM will run a script (at an agreed to date and time) to scramble the user's current password. If needed, the original password can be restored.
- ✓ Passwords should <u>not be</u> scrambled for the following:
 - XCM Scheduler users integrating with their Outlook calendar: the XCM
 - Internet Calendar does not support SSO
 - XCM Mobile users: does not support SSO
 - The PM 5.0 Integration Sync account: password is used by Sync account to update the backend XCM database.
 - Your company's Web Admin accounts: these are also used by authorized XCM employees to perform setup and debug services.
- ✓ Please note: Internet Explorer has issues bookmarking the SSO URL.



✓ Please note password scrambling can take up to a week to schedule the script run.

3. System High Level Overview

The architecture provides the top-level design view of the system and provides a basis for more detailed design work.



3.1. Overview

XCM supports SSO with any SAML 2.0 IDP. This document explains how to setup SSO with Microsoft Azure federation services and active directory services.



3.2. Azure Settings

This section describes the step-by-step flow for adding XCM as one of the relaying parts in the Federation services

3.2.1. Login to Azure Portal and select Azure Active Directory from the left navigation menu



3.2.2. Select Enterprise Applications under Azure Active Directory sub menu

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Cost Management + Billing								
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More services >								



3.2.3. Add XCM application to the Application list, by clicking on the **+ New application** link. Under the **Add your own app**, select **Non-gallery application**. Provide a name to the application and click Add



3.2.4. After successful creation of the Application, you will be navigated to the application configuration view





3.2.5. Under the list of options, select **Single sign-on**. In the **Single Sign-on Mode** dropdown Select **SAML-based Sign-On**



- 3.2.6. Set identifier as "sso.xcmsolutions.com"
 - ✓ Set Reply URL as "<u>https://workflow.cchaxcess.com/xcmv2/sso/AssertionConsumerService</u>"
 - ✓ Select the identifier as "userprincipalname"
 - ✓ Enable advanced certificate signing settings
 - ✓ Select Sign SAML assertion under Signing Option
 - ✓ Select SHA-1/SHA-256 algorithm for signing the assertion
 - ✓ Save the settings



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Microsoft Azure « Ent	terprise applications - All applications > Cate	egories > Add an a	pplication > XCM	Workflow Applicatio	n - Single sign-on		× 🗘	>_ 🏶 🙄 🛈	vijay.kumaran@xcms vuaikumakankcmsouutio	0
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+ New	🖬 Quick start	E Save X D	liscard							
Dashboard	MANAGE	VCM Workflow	Application Domai	n and LIPLs						Î
All resources	Properties	Input the URLs an	d other details about y	our XCM Workflow App	plication tenant into Azure AD.					
Resource groups	g ^R Users and groups	 Identifier Ø 	sso.xcmsolutions.com	1					1	
App Services	Single sign-on	 Reply URL O 	https://login.xcmsolu	tions.com/xcmv2/sso/A	issertionConsumerService				~	
Function Apps	Provisioning	Show advance	ed URL settings							
🥫 SQL databases	Application proxy	User Attributes	Learn more							
🬌 Azure Cosmos DB	Self-service	Edit the user infor	mation sent in the SAM	ill, token when user sig	n in to XCM Workflow Application.					
Virtual machines	SECURITY	User Identifier 0	user.userprincipalne	ame 🗸						
🔶 Load balancers	Conditional access	View and edit	all other user attribute	es						
Storage accounts	🐥 Permissions	SAML Signing (Certificate Learn m	ore						
Virtual networks	ACTIVITY	Manage the certif	icate used by Azure AC	0 to sign SAML tokens i	ssued to XCM Workflow Application.					
Azure Active Directory	Sign-ins	STATUS	EXPIRATION		THUMBPRINT			DOWNLOAD		
Monitor	Audit logs	New	10/19/2020		B7228ABCFF7546A8D6D1ED5F4FAA006	4F646CAF1		Certificate (Base64) Certificate (Raw) Metadata XML		
🔷 Advisor	TROUBLESHOOTING + SUPPORT	Create new cert	ficate							
🏮 Security Center	X Troubleshoot	C Use ti	he XCM Workflow Appl	lication Configuration s	ection below to configure XCM Workflow A	polication to use the rollover certificate. Select the che	ckbox below and save when fini	ished.		
O Cost Management + Billing	New support request									
Help + support		Make new ce	rtificate active							
More services >		Show advance	ed certificate signing s	ettings Learn more						
		Signing Option O	Sign SAML asse	ertion ¥						
		Signing Algorithm	SHA-1	*						
		 Notification Em 	ail 0 vijay.kumaran	@xcmsolutions.com					v	
		XCM Workflow XCM Workflow Ap	Application Config plication must be conf	uration figured to use Azure AC) as a SAML identity provider. Click below to	o view instructions on how to do this.				
		Configure XC	M Workflow Applica	ation					>	

3.2.7. After updating the settings, open the newly created application

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	Enterprise applications - All appl	lications Active Directory						
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Dashboard	MANAGE	Show	Applications status	Application visibility				
All resources	III All applications	Enterprise Applications	Any 👻	Алу	 Apply Reset 			
Resource groups	Application proxy	SP First 200 shown, to search all of you NAME	r applications, enter a display name or th	e application ID.	088710	APRICATION ID	The Proprietate	1.0
App Services	SECURITY	XCM APP			a4964404-b59k-48xt2-9xta7-ab#xt22aaf10	ec1dd795-275a-4698-8ae3-b050e5f19606	Default Directory	
Function Apps	O Conditional access	XCM Application	https://login.xcmsolutions/	om	a77908ef-365d-41d8-b516-29b1e0d34d49	ce57f20a-e9f9-4da4-9498-45072e713c3e	Default Directory	
SQL databases	ACTIVITY							
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Virtual machines	Audit logs							
Load balancers	TROUBLESHOOTING + SUPPORT							
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Virtual networks	New support request							
Azure Active Directory								
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3.2.8. In Properties, you will see the **User access URL**. Please copy the value.

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Storage accounts	Conditional access	Application ID 0	2a58060d-c0b7-4a0b-9ab1-81849948635a	6			
Virtual networks	Permissions	Object ID Ø	9/7343ba-7854-461a-83ec-8a2a/695445c				
Azure Active Directory	ACTIVITY	User assignment required? 0	Vec No				
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Security Center	TROUBLESHOOTING + SUPPORT						
O Cost Management + Billing	X Troubleshoot						
🛔 Help + support	New support request						
More services >							

3.2.9. Go to the **Single sign-on** in Azure. You will next need to copy the **App Federation Metadata URL** (click copy icon on right side of field) and export your public certificate.

AR Users and groups	Please Save the values to test the settings.	
Single sign-on	3. User Attributes Learn more	
Provisioning	Edit the user information sent in the SAML token when user signs in to Wdesk.	
O Self-service	User Identifier 🔿 user mail	¥.
SECURITY	View and edit all other user attributes 4. SAML Signing Certificate: Learn more	
Conditional access		
A Permissions	Manage the certificate used by Azure AD to sign SAML tokens issued to Wdesk.	
Activity	App Federation Metadata Url https://login.microsoftonline.com/dfla18c5-3194-4577-913d-e2289	D
Sign-ins	STATUS EXPIRATION THUMBPRINT DOWNLOAD	
Audit logs	Active 7/13/2021 28713E6EDD6F38F9EB8FA51199E55FD654A9107C Metadata XML	
TROUBLESHOOTING + SUPPORT	Create new certificate.	



- 3.2.10. Please send the following to your XCM contact:
 - ✓ User Access URL : noted in step 3.2.8 above
 - ✓ App Federation Metadata URL : copy the URL as noted in above screenshot
 - ✓ Metadata XML : download the certificate as noted in above screenshot