

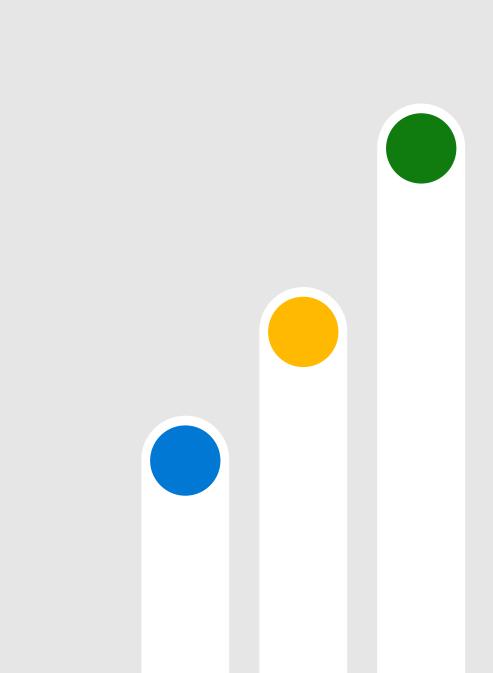
Microsoft Enterprise SSO Extension – What's New

Michael Epping Senior Product Manager – Microsoft Security CxE

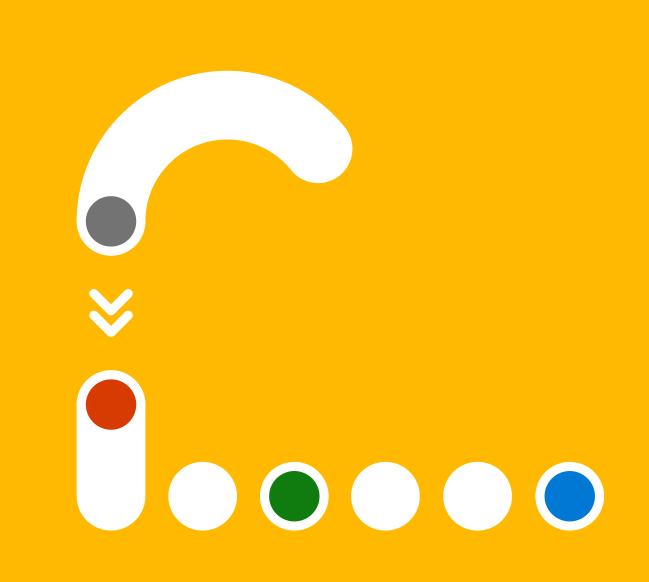


Agenda

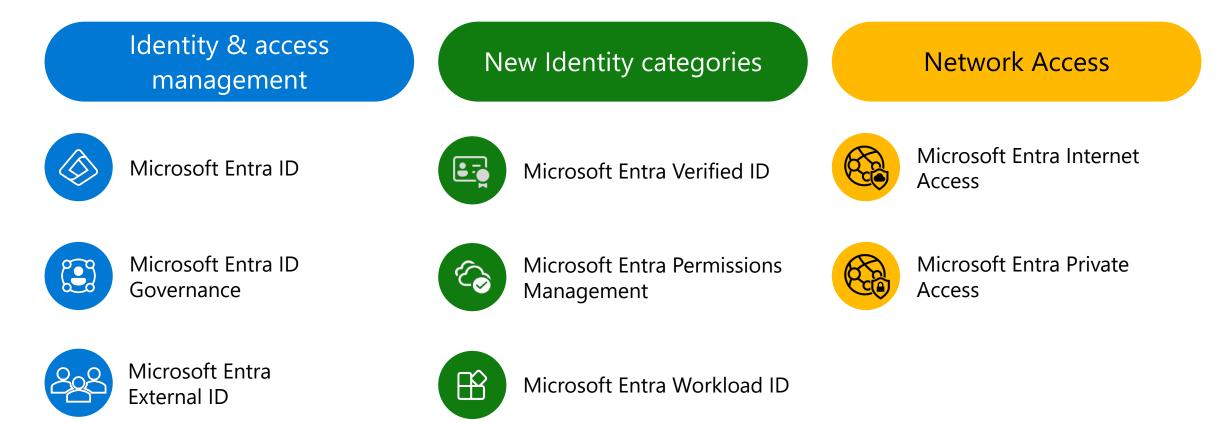
- What is Microsoft Entra
- Microsoft Enterprise SSO Extension General Availability
- Partner Integrations
- What's Next
- Go Dos



What is Microsoft Entra



Microsoft Entra Product Family



Microsoft Enterprise SSO Extension General Availability



General Availability

- "When is it going GA" this was the top question we received for years
- GA = April 10th, 2023
- Deployment guide: https://aka.ms/AppleSSO-Intune



macOS GA

- Usage has grown greatly since GA
 - $\cdot \,$ Still lots of room for improvement
- Lots of bugs fixed both before and after GA
- Working with MDMs like Intune and Jamf to consider deploying SSO Extension by default

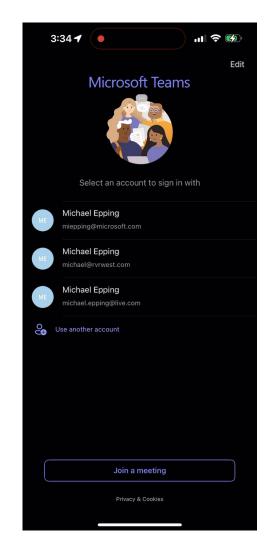


- Growth has been much slower on iOS
- \cdot Why...?
- \cdot Theory:
 - SSO for mobile apps is less broken on iOS for *some* organizations
 - Users use fewer web apps on iOS compared to macOS
- \cdot How does SSO work on iOS?
 - 1. Authenticator App without SSO Extension present

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	Hicrosoft Teams
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	Michael Epping michael@rvrwest.com
•	Michael Epping michael.epping@live.com
ଥ	Use another account
	Join a meeting
	Privacy & Cookies

▲ Authenticator 3:28 PM Thu Oct

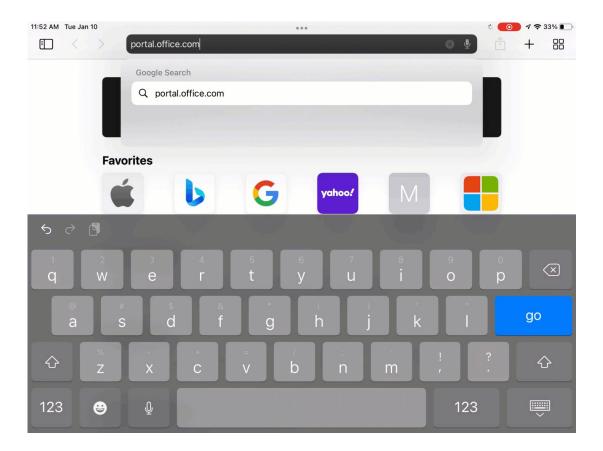
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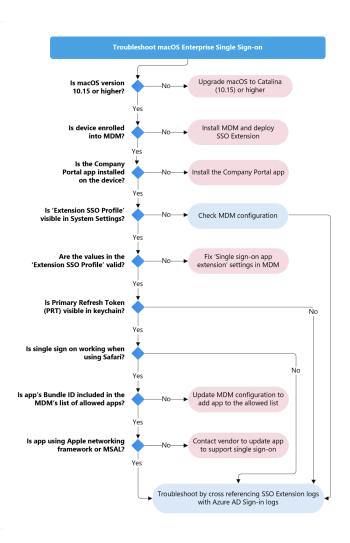
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 - 1. Authenticator App without SSO Extension present
 - 2. SSO Extension present

- Users on iOS have better user experiences without the SSO Extension, fewer web apps, and more BYOD
- Orgs are under less pressure to fix user experience on iOS because its already better

- Deploy the SSO Extension for iOS anyways!
 - Premier user experience
 - Future features will require it, such as token binding



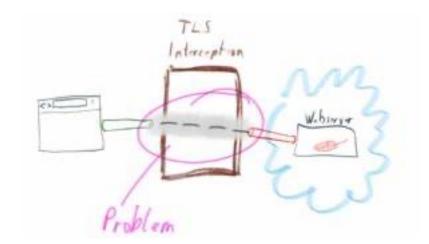
SSO Extension Troubleshooting Guide



- Helps you understand the inner workings of the SSO Extension and its logs
- Solve common issues without calling support
- Support is still there if you need it, of course

TLS Inspection

- This is the most common support issue by a *huge* margin
- Certain Apple hosts must be exempted from any TLS inspection/interception for SSO to work:
 - app-site-association.cdn-apple.com
 - app-site-association.networking.apple



• Apple services will fail any connection that uses HTTPS Interception (SSL Inspection). If the HTTPS traffic traverses a web proxy, disable HTTPS Interception for the hosts listed in this article.

Finding TLS Inspection - sysdiagnose

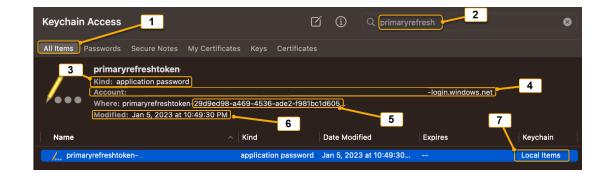
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Finding TLS Inspection - Mac Evaluation Utility

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	> Apple Diagnostics				1			
	> Push Provider (MDM Servers)				4			
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Other Troubleshooting Steps

- Check for the existence of the Primary Refresh Token
 - Note: the PRT will no longer appear in the keychain in the future w/ some PSSO configurations



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- Check for the existence of the Primary Refresh Token
 - Note: the PRT will no longer appear in the keychain in the future w/ some PSSO configurations
- · Check the SSO Extension logs

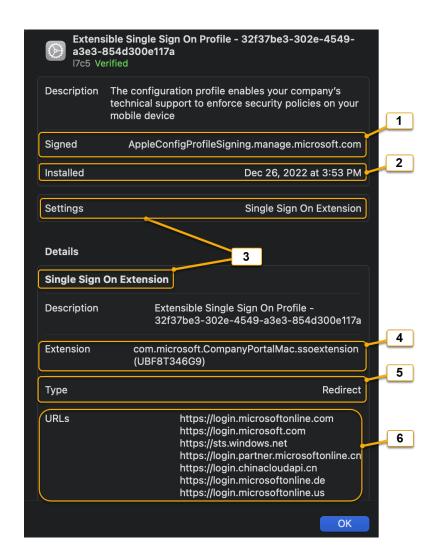
	1 2	3 4 5	6	8
			T	T
				Checking for feature flag converged_broker_
				Checking for feature flag disable_browser_s
				Checking for feature flag admin_debug_mode_
				Checking for feature flag disable_explicit_
				Checking for feature flag disable_explicit_
				App list for key from AppCookieSSOAllowList
				Bundle id list for key AppCookieSSOAllowLis
			1 [2022-11-23 08:21:57]	Created Browser SSO request for bundle iden
		, initiating origin null		
				Init MSIDKeychainTokenCache with keychainGr
				311C0202-FB0B-480B-8807-CD975F1E7799] [MSA
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	10:51:57:075 1 110	-2040454 MSAL 1.2.2 Mac 12.0.	* [2022-11-25 00:21:57 -	311C6262-F06B-466B-6667-CD9/3F1E//99] [F5H
Column	Column name	Description		
1	Local Date/Time	The Local Date and Time (dicplayed	
	Local Date/Time	The Local Date and Time	uispiayeu	
2	I-Information	Displays Information, War	ning, or Errors	
	W-Warning			
	E-Error			
-		Diseland the thread UD of the		A
3	Thread ID (TID)	Displays the thread ID of t	the SSO extension Brok	ter App's execution
4	MSAL Version	The Missesoft Estampian (CO automaian Baalaan B	lucin is build as an MCAL and This
4		The Microsoft Enterprise 3	SO extension broker P	lugin is build as an MSAL app. This
	Number	column denotes the version	on of MSAL that the br	oker app is running
5	macOS version	Show the version of the m	acOS operating system	2
5	macos version	Show the version of the fi	acos operating system	1
6	UTC Date/Time	The UTC Date and Time d	isplayed	
7	Correlation ID	Lines in the logs that have	to do with Microsoft I	Entra ID or Keychain operations extend
7	Correlation ID			Entra ID or Keychain operations extend
7	Correlation ID	Lines in the logs that have the UTC Date/Time colum		
7	Correlation ID	the UTC Date/Time colum	n with a Correlation ID	
7	Correlation ID Message	the UTC Date/Time colum	n with a Correlation ID	
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tail -F

~/Library/Containers/com.microsoft.CompanyPorta IMac.ssoextension/Data/Library/Caches/Logs/Micro soft/SSOExtension/*

Other Troubleshooting Steps

- Check for the existence of the Primary Refresh Token
 - Note: the PRT will no longer appear in the keychain in the future w/ some PSSO configurations
- \cdot Check the SSO Extension logs
- Validate the SSO Extension profile exists on the local client



Partner Integrations



Partner Improvements

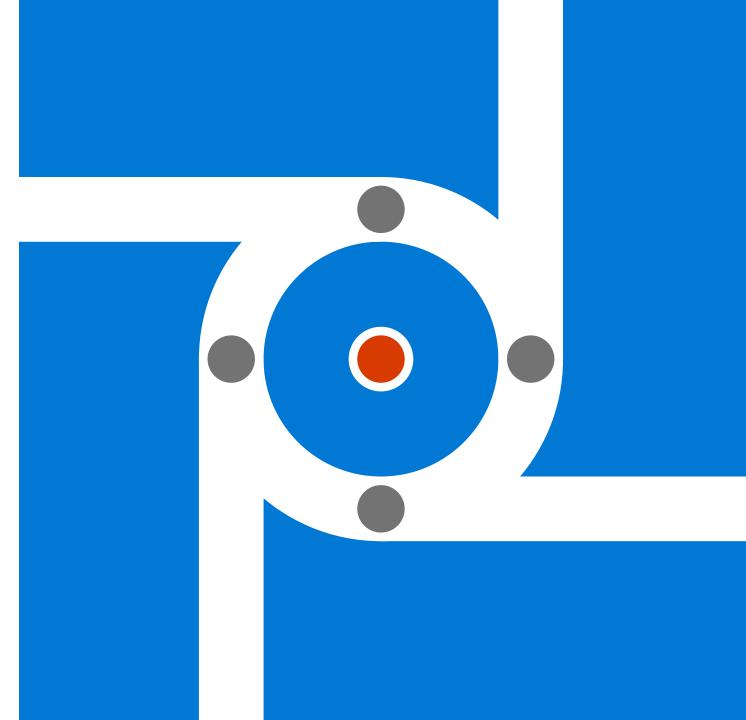
• We've worked with Jamf and VMWare to greatly improve the user experience with their MDMs and ESSO



Partner Improvements

- We've worked with Jamf and VMWare to greatly improve the user experience with their MDMs and ESSO
- Also worked with Jamf to improve other things, like Jamf Connect integration with Conditional Access
 - \cdot See our joint session with Sean Rabbitt from JNUC 2023

What's Next

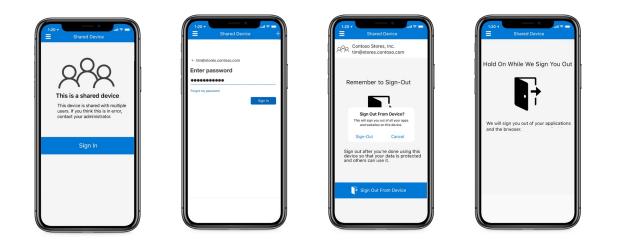


Platform SSO

- Public Preview coming soon
- Requires Ventura, but many improvements in Sonoma
- Password sync option
- Secure Enclave-based authentication option (equivalent to Windows Hello for Business)
- Smart Card option (Sonoma only)



Shared Device Mode



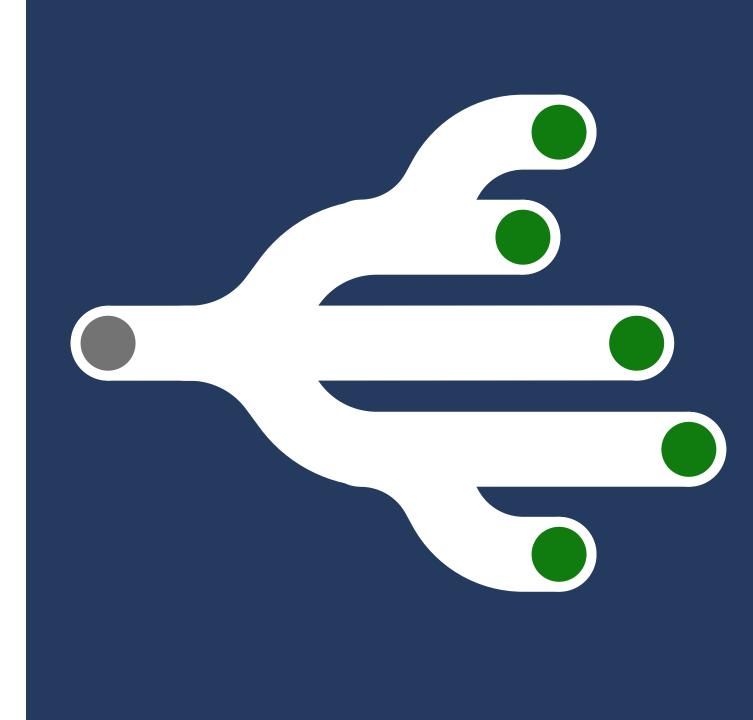
Microsoft applications that support shared device mode

These Microsoft applications support Microsoft Entra shared device mode:

- Microsoft Teams
- Microsoft Managed Home Screen app for Android Enterprise
- Microsoft Edge
- Outlook
- Microsoft Power Apps
- Microsoft Power BI Mobile (preview)
- Microsoft Viva Engage (previously Yammer)

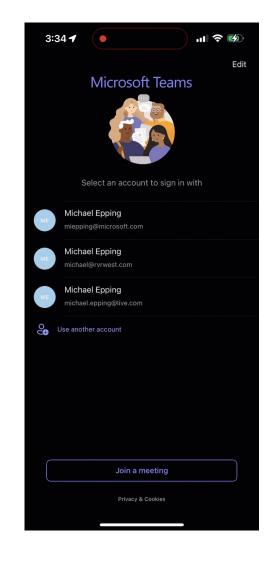
- \cdot SDM is GA for Android
- \cdot iOS GA is coming soon
 - 3rd party MDM support will come shortly after GA
- Same set of Microsoft apps will be supported for iOS and Android
- 3rd party apps will be supported, preferably will use MSAL
- What types of sign-in methods do you want for FLW workers?

Go Dos



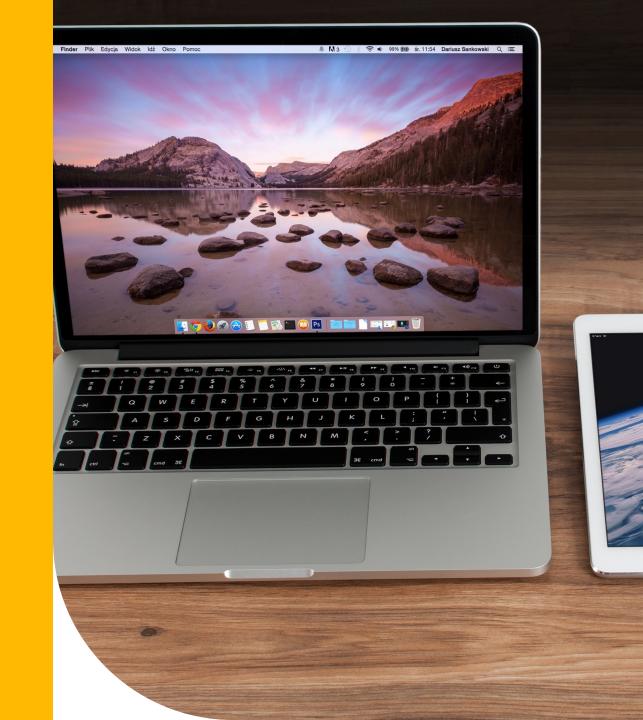
Go Dos

- \cdot Deploy the SSO Extension
 - Don't forget about iOS!
- Use the SSO Extension to improve your MDM integration with Microsoft
- Get devices upgraded to
 Sonoma if you want PSSO
- Watch our JNUC session if you use Jamf products and Conditional Access



Microsoft Security

Thank you



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15:22

