

HOW TO CONFIGURE THE MICROSOFT AZURE LOGIN FEATURE IN SOLABS QM 10

Status: Approved & Effective

Effective Date: 2020-03-13

Control Number: TINS000076

Version: 3.0

DOCUMENT INFORMATION TABLE

Name	How to configure the Microsoft Azure login feature in SOLABS QM 10
Document Type	Technical Instructions
Description	Technical instructions to setup SOLABS QM to interact with Microsoft Azure.
Control Number	TINS000076
Version (Internal Version)	3.0 (3.0)
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Originator (Author)	pdemers@solabs.com (Pascal Demers)
Document Owner	FCT_Head of Engineering
Document Coordinator	N/A
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RELATED ITEMS

N/A

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APPROVAL TABLE

Status ¹	Selected for Approval username (Full Name), Title	Approved By username (Full Name)	Meaning	Approval Date
APP	pdemers@solabs.com (Pascal Demers), N/A	pdemers@solabs.com (Pascal Demers)	Originator (Author)	2020-03-13 08:34:53 UTC-04:00
APP	Any, Head of Engineering	kevin.b.langlois@solabs.com (Kevin Byrne-Langlois)	Approver	2020-03-13 08:52:56 UTC-04:00
APP	Any, Head of Product & Quality Management	mboire@solabs.com (Martine Boire)	Approver	2020-03-13 08:54:36 UTC-04:00

¹ Legend:

NS: Not Started

AWA: Awaiting Approval

APP: Approved

REJ: Rejected

STO: Stopped

EFFECTIVE

How to configure the Microsoft Azure login feature in SOLABS QM 10 – SOLABS side



CREQ NUMBER:	CREQ- _____				
INSTANCE	INTERNAL: <input type="checkbox"/> QUALIF: <input type="checkbox"/> TEST: <input type="checkbox"/> VALIDATION: <input type="checkbox"/> PRODUCTION: <input type="checkbox"/>				
BACKUP REQUIRED: YES: <input checked="" type="checkbox"/> NO: <input type="checkbox"/>	SOLABS DB: <input type="checkbox"/> SOLABS QM APP FOLDER: <input checked="" type="checkbox"/>				
CLIENT:					
EXECUTED BY:					
REVIEWED BY:					
	NAME		SIGNATURE	INITIALS	DATE

1. INTRODUCTION

PURPOSE OF THIS DOCUMENT:

Configure the Azure AD feature in SOLABS QM using a pre-existing SAML application.

OBJECTIVE	CONFIGURE THE AZURE AD LOGIN FEATURE OF SOLABS QM 10.
ASSUMPTIONS	THE AZURE DIRECTORY HAS BEEN CONFIGURED BY THE CLIENT AND THE INFORMATION HAS BEEN SENT TO SOLABS.
TYPE OF ACCESS REQUIRED	Administrative access to the Web Application server.
APPLICABLE TO THE FOLLOWING OPERATING SYSTEMS	Windows server R2 2012 Std. & Windows server 2016 Std.
SYSTEM DOWNTIME REQUIRED	30 minutes
ESTIMATED EXECUTION TIME	30 minutes
ROLL-BACK PROCEDURE	Restore backup
Applicable SOLABS QM version	10.8.1 AND ABOVE

2. EXECUTION

Core File configuration:

1. Connect to the Web application server. Specify the name: _____
2. Create a folder in the SOLABS Work folder following the internal nomenclature.
3. Stop the SOLABS QM instance service.
4. Make a backup of the core files.
5. Edit the <Instal_Dir>\setup\configuration.properties.
6. Configure the following field with the information received by the client:
 - a. **EXTERNAL_SSO_ENABLED=true**
 - b. **EXTERNAL_SSO_HIDE_LOGIN=true**
 If SAML needs to be enabled:
 - c. **SAML_ENABLED=true**
 - d. **SAML_PROVIDER_URL=<Azure instance SAML url>**
 - e. **SAML_PROVIDER_DOMAIN=<Azure domain instance name>**
 - f. **SAML_SERVICE_DOMAIN=<SOLABS QM domain from the SOLABS app URL configured in Azure>**
 - g. **SAML_ASK_WHEN_PASSWORD_REQUIRED=true**
 - h. **HOSTED_UPDATE_PASSWORD=true**
 - i. **AZUREAD_CLIENT_ID=<Client ID the Azure related SOLABS QM App>**
 - j. **AZUREAD_CLIENT_SECRET=<Client Secret of the Azure SOLABS QM App>**

- k. **AZUREAD_AUTHORITY**=<Authority for the Azure instance>
- l. **AZUREAD_HOSTED_FEATURE**=true
- 7. Edit the <Instal_Dir>\server\server\solabs-qm\solabs-qm-configuration.properties.
- 8. Configure the following field with the information received by the client:
 - a. **solabs.qm.sso.external.enabled**=true
 - b. **solabs.qm.sso.external.hideLogin**=true
 - c. **solabs.qm.sso.hosted.updatePassword**==true
 - d. **solabs.qm.sso.saml.askPasswordRequired**=true
 - e. **solabs.qm.sso.azuread.client_id**=<same as **AZUREAD_CLIENT_ID** >
 - f. **solabs.qm.sso.azuread.client_secret**=<same as **AZUREAD_CLIENT_SECRET** >
 - g. **solabs.qm.sso.azuread.authority**= https://login.microsoftonline.com/<same as **AZUREAD_AUTHORITY** >/
Ex.: solabs.qm.sso.azuread.authority=https://login.microsoftonline.com/<@AZUREAD_AUTORITY@>/
****It is important for this path to end with a trailing "/" like in the example above.***
 - h. **solabs.qm.sso.azuread.hosted**=<Same as **AZUREAD_HOSTED_FEATURE**>
- 9. Save and close the "solabs-qm-configuration.properties" file.
- 10. Open the "setup/config/war/WEB-INF/" folder and copy the file "context.xml" and "picketlink.xml" to a temporary folder. Makes sure it's the updated folder to avoid using outdated files (the updated folder will always be accessible from the "Solabs QM Setup" repository).
- 11. Open "picketlink.xml" in Notepad
- 12. Replace all the instances of @SAML_PROVIDER_URL@, @SAML_PROVIDER_DOMAIN@ and @SAML_SERVICE_DOMAIN@ using their respective values from the previous configuration. There could be multiple instance of each of them.
- 13. Replace @REMOTE_URL@ with the same remote URL as set in ACS (Consumer) URL Validator (ex: <https://qualification.solabs.com/qualif1/>)
****Note: It is important for this path to end with a trailing "/" like in the example above.***
- 14. Change the Value of the KeyStorePass with the keystore password of the Solabs QM instance
- 15. Add the following line after the line starting with "<Option Key="ROLE_KEY"":
<Option Key="NAMEID_FORMAT" Value="urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified"/>
- 16. Save and close the "picketlink.xml" file.
- 17. Go to the "server\server\solabs-qm\deploy\solabs-qm.ear" folder and open "solabs-qm.war" with 7-zip.
- 18. Add both the modified "picketlink.xml" and "context.xml" file to the "solabs-qm.war\WEB-INF" folder.
- 19. Close the "solabs-qm.war" file currently opened in 7-zip.
- 20. Copy the certificate file for the Azure instance (sent by the customer) in the "setup" folder.
- 21. Open a command prompt inside the "setup" folder.
- 22. Execute this command (replace "SAML.cert" with the name of the certificate file and "KEYSTORE_PASS" with the right keystore password):

```
java\bin\keytool.exe -noprompt -importcert -alias saml-certificate -file "SAML.cert" -keystore  
"../server/server/solabs-qm/conf/SolabsQM.keystore" -storepass KEYSTORE_PASS
```

23. As a precautionary measure, delete the <INSTALL_DIR>/server/server/solabs-qm/tmp directory.
24. Start the SOLABS QM instance service.

3. COMMENTS

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