

HOW TO CONFIGURE THE SOLABS QM 10 TO INTERACT WITH ONELOGIN

Status: Approved & Effective

Effective Date: 2020-10-15

Control Number: TINS000069

Version: 3.0

DOCUMENT INFORMATION TABLE

Name	How to configure the SOLABS QM 10 to interact with OneLogin
Document Type	Technical Instructions
Description	Steps to be execute in order to configure the One Login feature in SOLABS QM 10.
Control Number	TINS000069
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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)	2020-10-15 09:47:50 UTC-04:00
APP	Any, Head of Engineering	kevin.b.langlois@solabs.com (Kevin Byrne-Langlois)	Approver	2020-10-15 10:47:19 UTC-04:00
APP	Any, Head of Product & Quality Management	mboire@solabs.com (Martine Boire)	Approver	2020-10-15 10:50:54 UTC-04:00

¹ Legend:

NS: Not Started

AWA: Awaiting Approval

APP: Approved

REJ: Rejected

STO: Stopped

EFFECTIVE

How to configure the One 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 One Login feature in SOLABS QM using a pre-existing SAML application.

OBJECTIVE	CONFIGURE THE ONE LOGIN FEATURE OF SOLABS QM 10.
ASSUMPTIONS	THE ONE LOGIN 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	10.8.2 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 when SAML is enabled, false otherwise>
 - c. **MFA_DEFAULT_FACTOR** = OTP
 - d. **SAML_ENABLED** = <true if SAML should be enabled, false if otherwise>
 - e. **SAML_PROVIDER_URL** = <OneLogin instance SAML url if SAML is enabled>
 - f. **SAML_PROVIDER_DOMAIN** = <OneLogin domain instance name is SAML is enabled>
 - g. **SAML_SERVICE_DOMAIN** = <SOLABS QM domain from the SOLABS app URL configured in OneLogin is SAML is enabled>
 - h. **SAML_ASK_WHEN_PASSWORD_REQUIRED** = <Usually true when SAML is enabled, false otherwise>
 - i. **HOSTED_UPDATE_PASSWORD** = true
 - j. **ONELOGIN_SUBDOMAIN** = <subdomain of the OneLogin instance>

- k. **ONELOGIN_CLIENT_ID**= <Client ID the OneLogin related SOLABS QM App>
- l. **ONELOGIN_CLIENT_SECRET**= <Client Secret of the OneLogin SOLABS QM App>
- m. **ONELOGIN_REGION**= <Region of the OneLogin instance>
- n. **ONELOGIN_HOSTED_FEATURE** = true

7. Save and close the “configuration.properties” file.

If SAML is enabled, proceed with the following steps, if not, jump to step 19.

- 8. Open the “setup/config/war/WEB-INF/” folder and copy the file “context.xml” and “picketlink.xml” to a temporary folder. Make sure it's the updated folder to avoid using outdated files (the updated folder will always be accessible from the “Solabs QM Setup” repository).
- 9. Open “picketlink.xml” in Notepad
- 10. 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 instances of each of them.
- 11. Replace @REMOTE_URL@ with the same remote URL as set in ACS (Consumer) URL Validator (ex: https://qualification.solabs.com/qualif1/)
- 12. Change the Value of the KeyStorePass with the keystore password of the Solabs QMx instance
- 13. Go to the “server\server\solabs-qm\deploy\solabs-qm.ear\ “ folder and open “solabs-qm.war” with 7-zip.
- 14. Add both the modified “picketlink.xml” and “context.xml” file to the “solabs-qm.war\WEB-INF\” folder.
- 15. Close the “solabs-qm.war” file currently opened in 7-zip.
- 16. Copy the certificate file for the OneLogin instance (sent by the customer) in the “setup” folder.
- 17. Open a command prompt inside the “setup” folder.
- 18. 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
```

- 19. Open the folder “server\server\solabs-qm\lib”
- 20. Open “onelogin-java-sdk-1.6.0.jar” with 7-zip
- 21. From there, extract the “onelogin.sdk.properties” in the work directory.
- 22. Edit the extracted file “onelogin.sdk.properties” file.
- 23. Set onelogin.sdk.client_id as the value of **ONELOGIN_CLIENT_ID** from “configuration.properties”
- 24. Set onelogin.sdk.client_secret as the value of **ONELOGIN_CLIENT_SECRET**
- 25. Set onelogin.sdk.region as the value of **ONELOGIN_REGION**
- 26. Save and close the “onelogin.sdk.properties”
- 27. Drag the file back in the “onelogin-java-sdk-1.6.0.jar” currently opened in 7-zip.
- 28. Close the “onelogin-java-sdk-1.6.0.jar” currently opened in 7-zip.
- 29. Open the folder “server\server\solabs-qm\conf”
- 30. Edit the file “solabs-qm-configuration.properties”
- 31. Set **solabs.qm.sso.external.enabled** to true
- 32. Set **solabs.qm.sso.external.hideLogin** as the value of **EXTERNAL_SSO_HIDE_LOGIN**
- 33. Set **solabs.qm.sso.mfa.defaultFactor** to OTP
- 34. Set **solabs.qm.sso.saml.askPasswordRequired** as the true of **SAML_ASK_WHEN_PASSWORD_REQUIRED**
- 35. Set **solabs.qm.sso.hosted.updatePassword** to true

36. Set **solabs.qm.sso.onelogin.subdomain** as the value of **ONELOGIN_SUBDOMAIN**
37. Set **solabs.qm.sso.onelogin.hosted** to true
38. Save and close the “solabs-qm-configuration.properties” file.
39. As a precautionary measure, delete the <INSTALL_DIR>/server/server/solabs-qm/tmp directory.
40. As a precautionary measure, delete the <INSTALL_DIR>/server/server/solabs-qm/work directory.
41. Start the SOLABS QM instance service.

3. COMMENTS

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