Login with Single Sign On (SSO)

SSO and MFA Overview

PME allows you to perform Single Sign-On to PME web and Windows applications using a SAML v2 compliant Identity Provider (IdP). For example Okta, OneLogin and Microsoft Entra ID.

SSO Integration Process for PME

- PME is a Service Provider (SP) that exchange user information with an Identify Provider (IdP).
- IdP is a system which stores user information and identities.
- The information exchanged between PME and the IdP is via SAML assertion.
- PME application should be configured in the IdP, so that IdP administrator can manage user access to PME in the IdP. For more detail refer to Managing.
- IdP manages authentication (log in credentials) and authorization (user access levels).
- PME verifies user authentication and authorization by validating the SAML assertion.
- Upon verification, PME allows the user log in based on their access level.

Prerequisites

The following prerequisites need to be met to enable the SSO feature in PME:

- **An Administrative account of an Identity Provider (IdP)**: You must have an Administrative account of an IdP to add PME to the IdP, assign users to PME in the IdP and manage the user access level to PME in the IdP.

  RECOMMENDATION: Recommended IdP's such as OKTA, KeyClock, OneLogin and Microsoft Entra ID.

- **Session Timeout -** PME is set for a definite session time-out at application level. If IdP is not time-out, PME will still log out based on the session time-out settings for PME.
- **SAML App Integration details in IdP**:

General and Advanced Settings	Values
Single Sign-on URL	https://XXXXXX/SystemDataService/Security/AssertionConsumerService Replace XXXXXX with the PME domain. For example - If the PME Domain is - https://standalone/ Single sign on URL – https://standlaone/SystemDataService/Security/AssertionConsumerService
Audience URL (SP Entity ID)	https://XXXXXX/Metadata Replace XXXXXX with the PME domain.

General and Advanced Settings	Values
Single Logout URL	Location where the logout response will be sent. https://XXXXXX/SystemDataService/Security/SingleLogout Replace XXXXXX with the PME domain.
Other Requestable SSO URLs	If accessing PME from other machines using IP or using a different domain name. Add SSO URLs using this option. For Example - If the IP (10.168.95.152) is used instead of domain name used in #1, Add the below URL in Other requestable URL's https://10.168.95.152/SystemDataService/Security/AssertionConsumerService

Managing PME access level in the IdP

1. Create users with email id and password.
2. Create Groups / Directories based on PME Access level. Example – PME_Administrator (This is for Supervisor account), PME_Observer, PME_Controller, PME_Operator and PME_User.
3. Assign Users to these directories to set the access level in PME.
4. Assign these directories to your PME application created in IdP.

MFA Integration in IdP

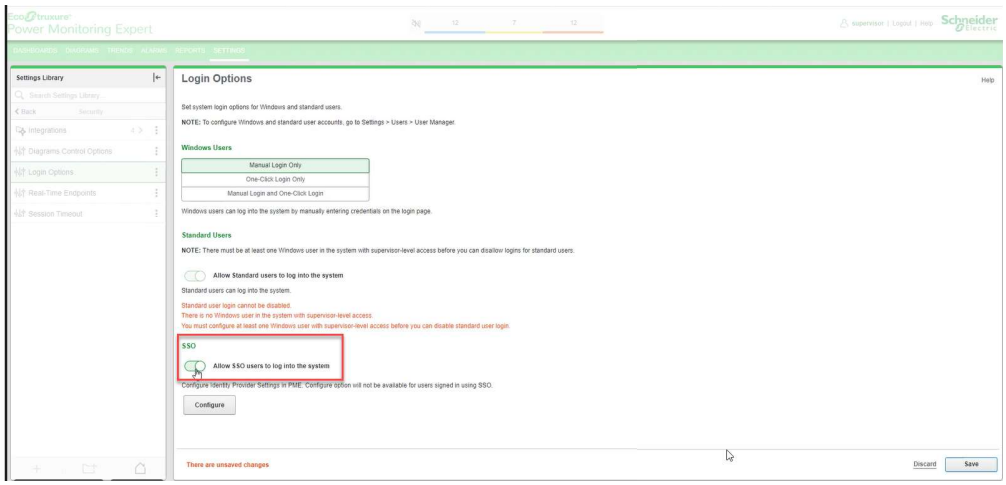
Multi-Factor Authentication (MFA) part of the IdP Authentication process and should be set up during the IdP configuration.

RECOMMENDATION: Set the MFA Authentication as per the guidelines of the IdP documentation.

Enabling and configuring SSO login in PME

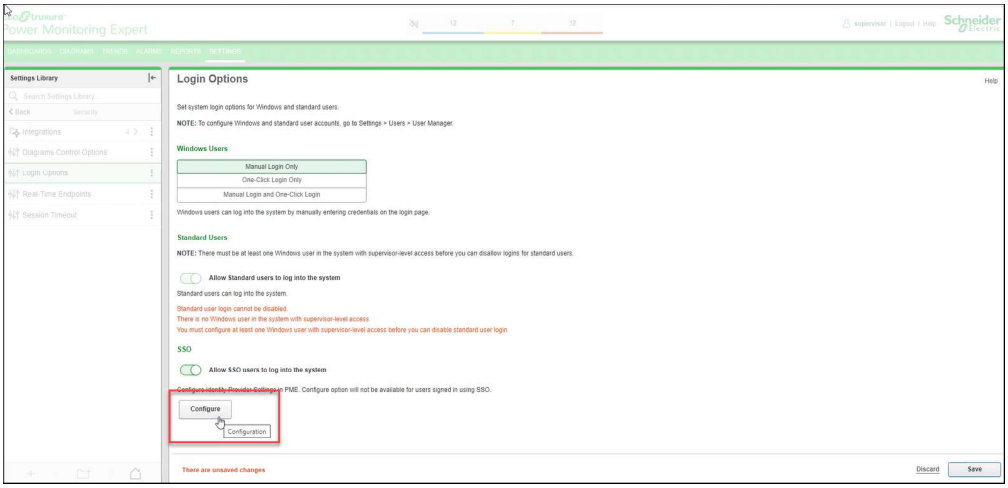
To enable the SSO login option in PME:

1. Navigate to **Settings > Security > Login Options** page in PME web.
2. Enable the **Allow SSO users to log into the system**.

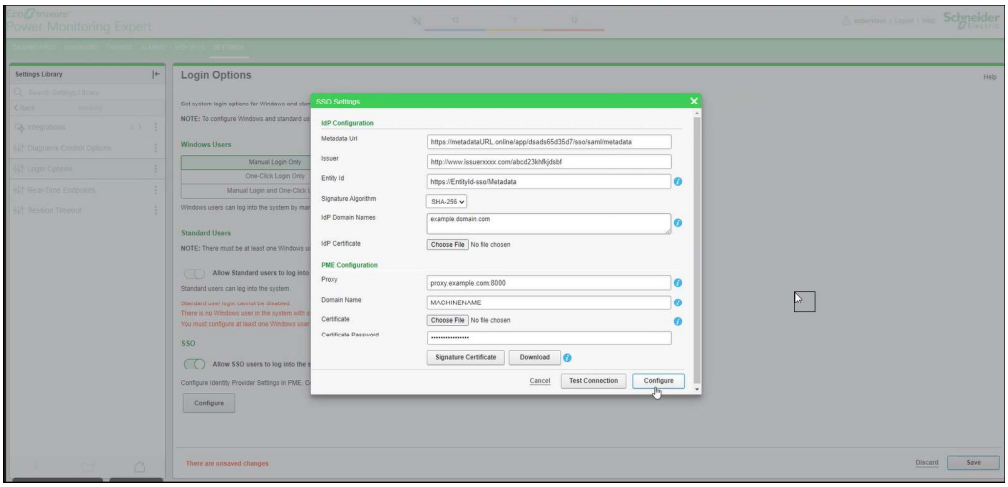


This enables the SSO login option both in the PME web and desktop applications.

3. Select **Configure**.



4. Enter the **SSO Settings** details.



IdP Configuration	Details
Metadata URL	SAML metadata URL in XML format which contains information necessary for interaction with SAML-enabled identity provider. You must note this URL while you are configuring PME in the IdP.
Issuer	It is an URL that uniquely identifies your SAML identity provider. You must note this URL while you are configuring PME in the IdP.
Entity Id	It is an URL which is the unique identifier for the PME application. Example - Value can be https://pme-sso/metadata (Value should be same as that configured in IdP)
Signature Algorithm	Signing Algorithm used to digitally sign the SAML assertion and response (You should select as per the IdP configuration of Identity provider). For example, for Okta SHA-256 is default.
IdP Domain Name	This is the idp domain name to update the PME Content security policy. Use the domain name from the Metadata URL provided.
IdP Certificate	This is a Public key certificate used to verify the SAML logout signature in IdP. This Certificate is used in PME to sign the logout request.

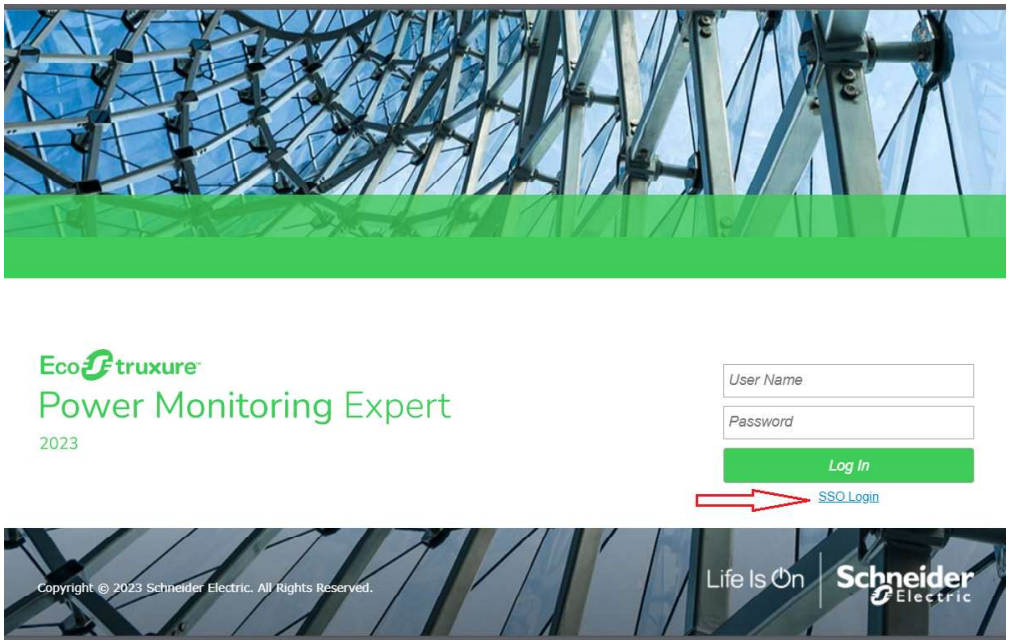
PME Configuration	Details
Proxy	Proxy address of VM or Machine where PME is configured. Proxy is required to connect PME with IdP to get the metadata's information using the metadata URL.
Domain Name	PME application hosted domain name. Example - If PME is hosted in https://standalone, then provide **standalone** as domain name.
Certificate	Certificate used to sign SAML requests. Personal Information Exchange (pfx) is a password protected certificate used for code signing. - Create a self-signed certificate. - Export certificate in pfx format and upload in PME.
Certificate Password	This is the pfx certificate password. Password can be set while exporting the certificate.
Signature Certificate	This is a public key certificate used to verify the SAML logout signature in IdP. This Certificate is used in PME to sign the logout request). You can download public key certificate from PME to upload in IdP.

PME Configuration	Details
Download	You can download the pfx certificate uploaded in PME, if required.
Test Connection	This is used to test the PME SSO configuration with the IdP. It will redirect to IdP login page, and the Administrator can provide the credentials. If successfully redirected and user is able to login, user can confirm IdP related configurations are correct or not.

5. Select **Test Connection** to test the settings.
6. Select **Configure** and close the window.
7. Select **Save** to save the SSO settings.

Accessing the SSO in PME Web

After configuring the SSO in **Login Options**, SSO option is available in PME web application.



Select the **SSO login** to redirect to the IdP login screen.

Follow the instructions on the IdP login screen to complete the authentication.

NOTE: You should use the credentials from the IdP configuration to log in to the IdP.

After the successful authentication, the PME dashboard appears.