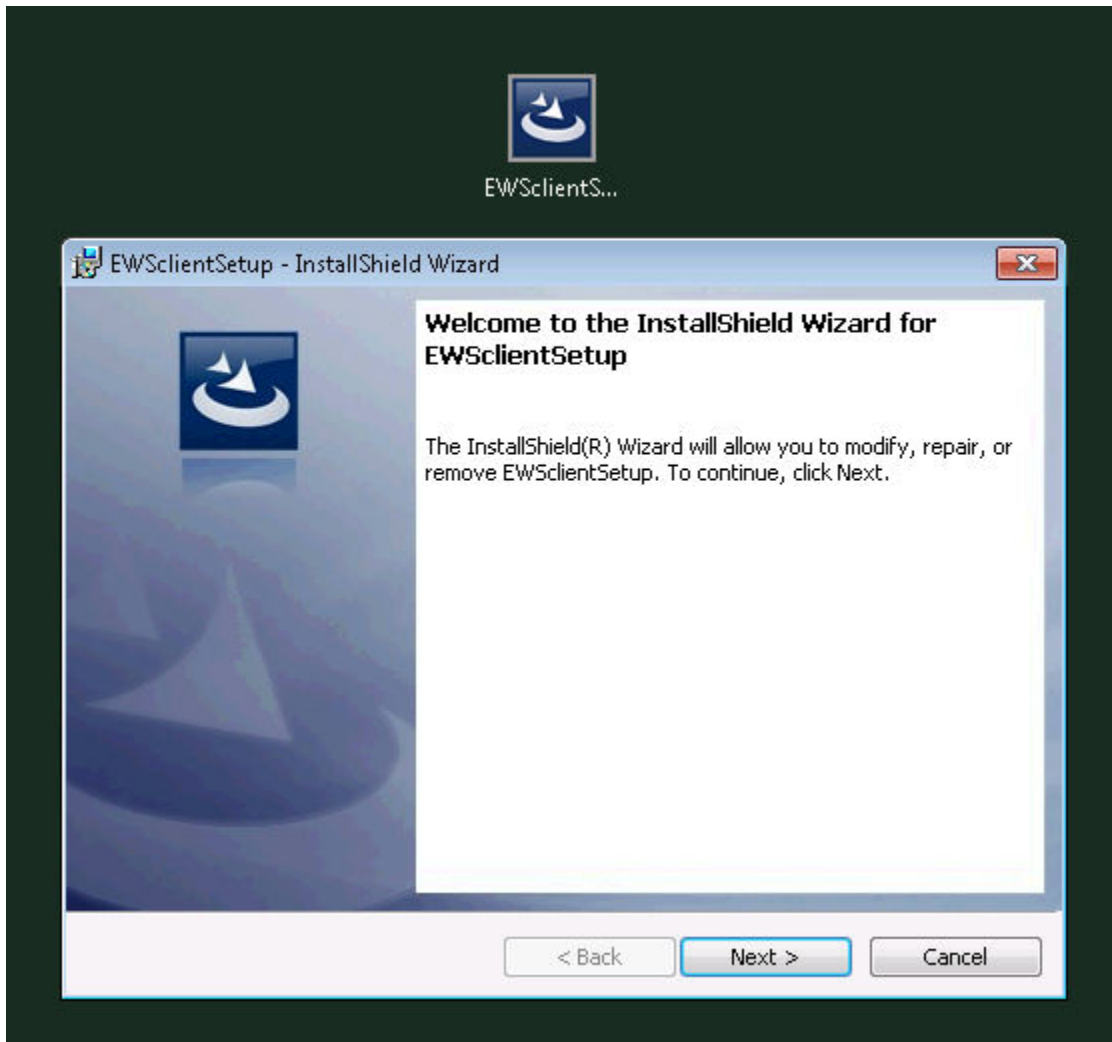


Setting up the =S= EWS Reference Client

(1) Install the reference client



(2) Launch the Reference Client and provide connection information

Navigation Connected Server

Menu

Connect Configuration to connect to a EcoStruxure Web Service (EWS) server.

Server Local PME

Endpoint http://localhost/EWS/dataexchange.svc

Authentication HTTP Auth Digest

User name ews_client

Password ...

Connect Cancel

Logger

Server

This is an arbitrary text string that references a particular server. It does not have to match any other configuration settings or names

Endpoint

"http://localhost/EWS/dataexchange.svc"

This is the same for all PME installations. If the Reference Client is running on the server where PME is installed, then "localhost" can be used. If PME is on a different server, then the IP address of that server must be used.

Authentication

"HTTP Auth Digest" For User name and Password, choose a PME user account.

The EWS client must provide login credentials for a valid PME user account. It is not necessary, but a good idea, to create an account specifically for EWS client access (e.g. user name = "ews_client"). Having a specific account makes it easy to trace alarm acknowledgements done by a client through EWS. Here are the user permissions required for EWS access:

- Read data: observer, user, controller, operator, supervisor
- Read Alarms: controller, operator, supervisor
- Acknowledge Alarms: controller, operator, supervisor

(3) Optimize the Reference Client configuration settings for PME

The screenshot displays the Schneider Electric EWS Reference Client V2.0 Beta interface. The main window is titled "Connect" and contains the following fields and controls:

- Server:** A dropdown menu set to "Local PME" with a save icon and a minus icon to its right.
- Endpoint:** A text input field containing "http://localhost/EWS/dataexchange.svc".
- Authentication:** A dropdown menu set to "HTTP Auth Digest".
- User name:** A text input field containing "ews_client".
- Password:** A text input field with masked characters (dots).
- Buttons:** "Connect" and "Cancel" buttons at the bottom.

A red arrow points to a menu icon in the top right corner, which is labeled "Menu" and "Open Configuration Technical configuration".

The interface also features a left sidebar with a "Navigation" pane showing "Connected Server" and a "Logger" pane at the bottom left. The top bar includes the Schneider Electric logo and several status icons.

Schneider Electric EWS Reference Client V2.0 Beta

Navigation Connected Server

Connection Configuration

Configuration options to specify the connecting parameter to an EWS server.

Protocol	SOAP	Open Timeout [sec]	20
Message Version	SOAP 1.2	Close Timeout [sec]	20
☐ Ignore EWS namespace in the response message		Send Timeout [sec]	60
☒ No strict content processing		Receive Timeout [sec]	60
☐ No cookies allowed		Max Buffer Pool Size [Byte]	3000000
Root Id:		Max Buffer Size [Byte]	3000000
Get Values Polling Interval [sec]	5	Max Received Message Size [Byte]	3000000
Alarm Events Polling Interval [sec]	5	Block Loading Size	10

Logger

The EWS reference client has some configuration settings that need to be tweaked to optimize its interactions with PME. Set the following values/settings in the configuration dialog of the reference client:

- check box for "No strict content processing"
- Get Values Polling Interval = 5
- Alarm Events Polling Interval = 5
- Open Timeout = 20
- Close Timeout = 20
- Send Timeout = 60
- Receive Timeout = 60
- Max Buffer Pool Size = 3,000,000
- Max Buffer Size = 3,000,000
- Max Received Message Size = 3,000,000

(4) Save the Reference Client Settings

Connection Configuration Configuration options to specify the connecting parameter to an EWS server.

Protocol: SOAP
Message Version: SOAP 1.2

☐ Ignore EWS namespace in the response message
☒ No strict content processing
☐ No cookies allowed

Root Id:
Get Values Polling Interval [sec]: 5
Alarm Events Polling Interval [sec]: 5

Open Timeout [sec]: 20
Close Timeout [sec]: 20
Send Timeout [sec]: 60
Receive Timeout [sec]: 60

Max Buffer Pool Size [Byte]: 3000000
Max Buffer Size [Byte]: 3000000
Max Received Message Size [Byte]: 3000000
Block Loading Size: 10

Menu

Connect Configuration to connect to a EcoStruxure Web Service (EWS) server.

Server: Local PME
Endpoint: http://localhost/EWS/dataexchange.svc
Authentication: HTTP Auth Digest
User name: ews_client
Password: ***

Connect Cancel

Save current profile.
Save the current server settings permanently.

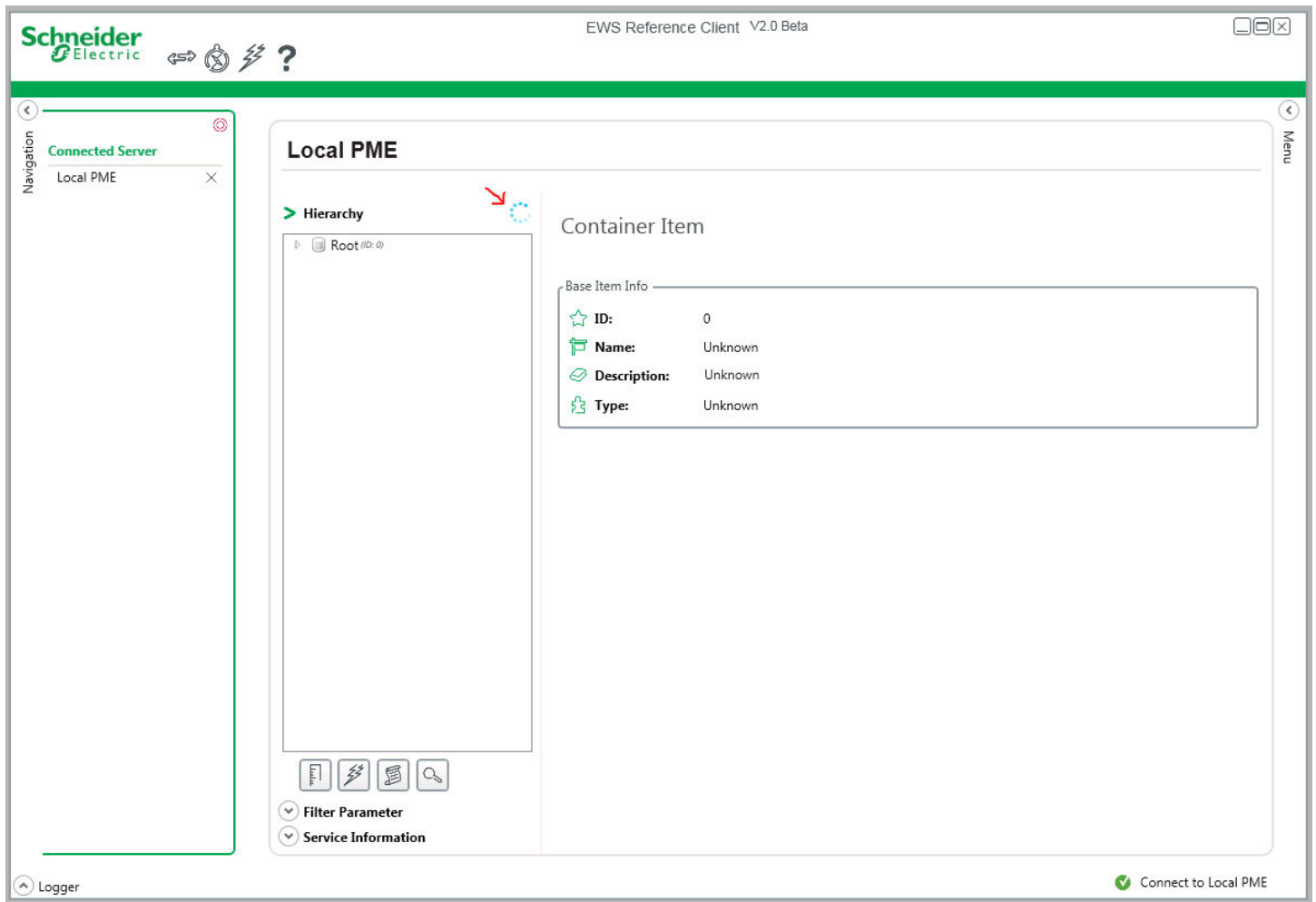
(5) Connect to the PME EWS Server

The screenshot shows the 'Connect' dialog box in the Schneider Electric EWS Reference Client V2.0 Beta. The dialog is titled 'Connect' and contains the following fields and controls:

- Server:** A dropdown menu set to 'Local PME' with a save icon and a minus icon.
- Endpoint:** A text input field containing 'http://localhost/EWS/dataexchange.svc'.
- Authentication:** A dropdown menu set to 'HTTP Auth Digest'.
- User name:** A text input field containing 'ews_client'.
- Password:** A text input field with three dots indicating a masked password.
- Buttons:** A green 'Connect' button and a grey 'Cancel' button.

A red arrow points to the 'Connect' button. The dialog also features a green circular logo with a stylized 'E' and 'S' on the left side. The top of the window shows the Schneider Electric logo and the title 'EWS Reference Client V2.0 Beta'. The bottom left corner has a 'Logger' button.

Wait until loading is done



(6) View PME Data

Schneider Electric EWS Reference Client V2.0 Beta

Navigation: Connected Server Local PME

Local PME

> Hierarchy

- Root (ID: 0)
 - Campus.Academic_Hall (ID: 2)
 - Campus.Dining_Hall (ID: 3)
 - Campus.Library (ID: 4)
 - Campus.Main_Feed (ID: 5)
 - Campus.Residence_Hall (ID: 6)
 - Analysis.Buildings_Consumption

Container Item

Base Item Info

- ID: 2
- Name: Campus.Academic_Hall
- Description: Campus.Academic_Hall
- Type: device

Filter Parameter

Service Information

Logger

Schneider Electric EWS Reference Client V2.0 Beta

Navigation: Connected Server Local PME

Local PME

> Hierarchy

- Block Demand Apparent Power Tot
- Peak Block Demand Apparent Power
- Block Demand Apparent Power (ID: 2)
- Peak Block Demand Apparent Power
- Block Demand Apparent Power Ou
- Peak Block Demand Apparent Power
- Voltage L-L Avg (ID: 2@1021@V)
- Voltage L-N Avg (ID: 2@1021@V)
- Current A (ID: 2@1003@V)
- Current Avg (ID: 2@1008@V)
- Current B (ID: 2@1004@V)
- Current C (ID: 2@1005@V)
- THD Current N (ID: 2@1054@V)
- THD Current A (ID: 2@1051@V)
- THD Current B (ID: 2@1052@V)
- THD Current C (ID: 2@1053@V)
- Current Unbalance (ID: 2@3411592@V)
- Device Clock Local Time (ID: 2@3400294)
- Device Clock Universal Time (ID: 2@34)
- DI-S1 State (ID: 2@-2@V)
- DI-S2 State (ID: 2@-2@V)
- DI-S3 State (ID: 2@-4@V)
- DI-S4 State (ID: 2@-5@V)
- DI-S5 State (ID: 2@-6@V)
- DI-S6 State (ID: 2@-7@V)
- DI-S7 State (ID: 2@-8@V)
- DI-S8 State (ID: 2@-9@V)
- Frequency (ID: 2@1001@V)

Value Item

Base Item Info

- ID: 2@1021@V
- Name: Voltage L-N Avg
- Description: Voltage L-N Avg

Value Item Info

- Type: double
- Unit: V
- Value: 277.0663
- Access: ReadOnly
- Status: Good
- Timestamp: 11/03/2015 9:47:08 AM

Filter Parameter

Service Information

Logger

