EcoStruxure Building Operation

iLOQ Integration SmartConnector

Installation & User Guide

October 2024







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Contents

1	Functional Overview	6
2	Restrictions & Limitations	7
2.1	SmartConnector Service Version	7
2.2	EWS Supported Systems	7
2.3	ILOQ Service Supported System	7
3	Installation	8
4	Configuration & Settings	9
4.1	Processor Configuration	10
4.2	Adding the Custom Assembly to the Service	11
5	Revision History	17
6	References	18

Functional Overview

The iLOQ Integration SmartConnector is a Windows Service that uses a Configurable framework to communicate with Security Expert to read the latest events using a SOAP interface. The SmartConnector then packages the XML data into objects that are then pushed into iLOQ using the Api's provided.

In this phase 3 development, Access Rights have been removed and the Key Id is now being imported from iLOQ into SX. Access rights were determined to be properties that were not adequate as unique values for users as Access rights are associated to a key and therefore would cause issues down the line if the key was transferred over to a new user.

The key id (Rom_ID) is now being imported directly into the credential fields in SX. The processor, iLOQ to SX is responsible for implementing this functionality.

The processor leverages the SmartConnector Service framework and details of the application (release history, installation notes etc.) are available separately and are not covered in this manual.

The SmartConnector application is licensed on a single server basis but may also be configured to connect to both Automation Server (AS-P) devices as well as Enterprise Servers (ES).

2 Restrictions & Limitations

2.1 SmartConnector Service Version

The processors have been configured to operate with the SmartConnector version **<u>2.5.4.18</u>** or greater, use with any other lower version of the SmartConnector framework is not supported.

2.2 EWS Supported Systems

The processors can support EcoStruxure systems operating with the EcoStruxure Web Services (EWS) protocol v1.1 and v1.2.

2.3 ILOQ API Supported System

The SmartConnector has been tested and validated against the ILOQ Service REST API v2.

Other versions may cause issues and are not supported. Please check with your supplier.

3

Installation

To install the SmartConnector Runtime, please follow the relevant documentation that is available via the SmartConnector website (<u>https://smartconnectorserver.com</u>).

The following assemblies should be deployed to the service installation directory which normally is "C:\Program Files (x86)\Schneider Electric\SmartConnector".



IMPORTANT STEP

T.

Before continuing, please ensure you do the following:

In your SmartConnector directory locate the file **Mongoose.Service.exe.config.** Once located, open the file in any text editor and add the following service binding information by simply copying and pasting it making sure it is pasted after the closing startup tag which should look like </startup> and before the closing configuration tag which should look like </configuration>.

	<system.servicemodel> <bindings> <basichttpbinding> <binding <br="" allowcookies="true" name="BasicHttpBinding_IService1">bypassProxyOnLocal="false" maxBufferPoolSize="2000000" maxBufferSize="20000000" maxReceivedMessageSize="20000000" textEncoding="utf-8" transferMode="Buffered" useDefaultWebProxy="true" messageEncoding="Text"/> <binding <br="" allowcookies="true" name="BasicHttpBinding_IService11">bypassProxyOnLocal="false" maxBufferPoolSize="20000000" maxBufferSize="20000000" maxReceivedMessageSize="20000000" textEncoding="utf-8" transferMode="Buffered" useDefaultWebProxy="true" messageEncoding="Text"> <readerquotas <br="" maxdegth="32" maxstringcontentlength="20000000">maxArrayLength="20000000" /> <security mode="Transport"></security> </readerquotas></binding></binding></basichttpbinding></bindings></system.servicemodel>
	<client></client>
	<pre><endpoint <br="" address="http://10.141.213.80:8030/SecurityExpertSOAPService/Service.svc'
binding=" basichttpbinding"="" bindingconfiguration="BasicHttpBinding_IService1">contract="SeExpService.IService1" name="BasicHttpBinding_IService1" /> <endpoint <="" address="https://desktop-
urcoa5t:8040/SecurityExpertSOAPService/Service.svc" binding="basicHttpBinding" pre=""></endpoint></endpoint></pre>
	<pre>bindingConfiguration="BasicHttpBinding_IService11" contract="SeExpService.IService1" name="BasicHttpBinding_IService11" /> </pre>
<	

4 Configuration & Settings

4.1 Processor Configuration

With a default installation of SmartConnector, the configuration pages for the server can be reached at the following address on the server the service has been installed on:

http://localhost:8082/

SmartConne	ector × +				- 1	
(i) localho	ost:8082/status	▼ C Q S	earch	☆自・	Â	◙
5	Status Configura	tions	About	Logged in as ad	min 🗸	
Sta	tus					
	_					
Refrest	n C					
Proce	Active Endp	oints Configuration Requests E	WS Server Requests			
			D 0.5			
#	Status	Elapsed Time (nn:mm:ss)	Processor Config	uration		
1	Waiting For Work					
2	Waiting For Work					
3	Waiting For Work					
4	Waiting For Work					
5	Waiting For Work					
		5 items present				
Sch	neider					
č	Electric					

4.2 Adding the Custom Assembly to the Service

Switch to the Configurations tab and select Add New +

Add New 🕂

At the Add Configuration window,

Step 1 – Pick an assembly, select the reference to SE_iLOQ_Integration (this will be highlighted green when selected)

Status	Configurations -	EWS Servers	Setup -	About	Logged in as admin +
Add Proce	ssor Con	figuratio	on		
Back Next Cancel					
Step 1 - Pick an	assembly				
Mongoose.Process					3 candidates
SE_iLOQ_Integration					2 candidates
Assembly Description					
Assembly Company					
Assembly Copyright					
Copyright © 2021					
Assembly Version 1.0.0.0					
Schneide	r				

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Select Next and proceed to Step 2 Choose a Class

Step 2 - There will be 2 classes available to select as the screen shot shows. Each one of them will have to be set up as they represent 2 separate processors each of which will be responsible for taking information from Security Expert and injecting them into iLOQ and the other will be responsible for taking Lock Log data from iLOQ into Security Expert. Select one of them and proceed to the next window.



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Step 3 - Name Configuration

Enter a meaningful name and description for the Processor which will enable you to identify this process in the configuration window later.

Select Finish and proceed to the Configuration screen.

Status Configurations - EWS Servers	Setup - About	Logged in as admin •						
Processor Configuration								
Edit All 🕼 Start 🕨 Validate 🚱 Reset Counter 😰 Reset Timer 🗄 📫								
Name	Is Active							
Security Expert -> iLOQ Demo	True	• 6						
Description								
		G						
		h						
Processor Details Control History Schedule								
Class Name								
SE_ILOQ_Integration.lloqToSeProcessor								
Assembly File								
SE_iLOQ_Integration.dll								
Assembly Description								
Assembly Company								
Assembly Copyright	Assembly Copyright							
Copyright © 2021								
Assembly Version								
1.0.0								

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Remember to repeat steps 1 to 3 for the second class.

Once the processors have been setup, it is now time to configure them. In the configuration window select the Details Tab, you will then be presented with the screen to enter the configuration information under the **Settings** item in the tree. Much of the configuration has default options however they should be checked and validated for the installation. Edit the applicable fields as follows.

Iloq Base Url

This property will need the base url to the api's that are needed to access iLOQ for Get/POST/PUT operations.

Iloq Username

This property represents the Username that is needed as part of the credentials for creating a session for the api's to be used.

Iloq Password

This property represents the Password that is needed as part of the credentials for creating a session for the api's to be used.

Iloq Customer Code

This property represents the Customer Code that is needed as part of the credentials for creating a session for the api's to be used.

lloq Api Key

Leave this property blank as it not needed. This may change later down the line.

Iloq Api Secret

Leave this property blank as it not needed. This may change later down the line.

Iloq Polling – ONLY AVAILABLE IN ILOQ TO SECURITY EXPERT PROCESSOR

This property represents a polling rate in seconds i.e. how often is the system going to read Lock Logs from iLOQ. This property is only available in the iLOQ to Security Expert processor.

Sec Exp Soap End Point

This property represents the End Point to your Security Expert instance for e.g. <u>http://<IPADDRESS>:<PORT>/SecurityExpertSOAPService/Service.svc</u>. The text box will be populated with a default value however it will need to be changed to your own local or remote instance.

Connection Name

This property represents the name of the SOAP binding which describes how a SOAP message can be carried in HTTP messages either with or without the HTTP Extension Framework. Leave it as the default value.

Username

This property represents the Username that will be needed as part of the credentials to gain access to your Security Expert instance.

Password

This property represents the Password that will be needed as part of the credentials to gain access to your Security Expert instance.

Site Id

This property represents an additional parameter that is needed so that a user can add, retrieve and update records in Security Expert.

Custom Fields

This property allows the user to represent custom fields under the iLOQ tab in Security Expert. Please remove Access Rights fields from the previous version as these are no longer required. The 'lloq Person Number' and 'Add to iLOQ' fields should remain. Below are the fields which will be seen when adding a custom field.

Custom Field ID

Specify the ID of the Custom Field to be created in Security Expert **Custom Field Type**

Specify the custom field type that needs to be created.

Is Primary

If set to true, the value of the custom field will be treated as unique value.

Max Events – ONLY AVAILABLE IN SECURITY EXPERT TO ILOQ

This property represents the number of events that you would like to extract out of Security Expert during a polling cycle. If you set it to for e.g. 200 and polling is set to 5 seconds, then that would mean that after every 5 seconds, the processor will try to get 200 events out of security expert.

Security Expert Polling – ONLY AVAILABLE IN SECURITY EXPERT TO ILOQ

This property represents a polling rate in seconds i.e. how often is the system going to read Lock Logs from iLOQ. This property is only available in the iLOQ to Security Expert processor.

The Save Button allows the process configuration to be saved to the database.



A complete configuration will appear as follows:

Sec Exp Soap End Point *	
http://acalhast:8030/SecurityExpertSOAPService/Service.svc	
Connection Name *	
BasichttpBinding IService1	
A Lisername *	
ilock	
Password *	
~ Encrypted ~	
Site Id *	
1	
Max Events *	
200	
First Event Id	
1	
Security Expert Polling	
10	
Ilog Base Url •	
https://s10.iloq.com/iloqpool2wss65/api/v2/	
O lloq Username *	
Admin	
Inor Password *	
- ыпауром -	
3 Ilog Customer Code *	
1000_03000	
6. m	
gi lioq Api Key	
Empty	
The stars and a star and a	
Ilog Api Secret Emply	
Iloq Apl Secret Empty	
Iloq Api Secret Empty	
Iloq Apl Secret Emply O Custom Fields	
Iloq Api secret Empty O Custom Fields fem	
Iloq Api secret Empty O Custom Fields O ttem O Custom Field id *	
Iloq Api Secret Empty O Custom Fields O Lustom Field id * O	
Iloq Api Secret Empty O Custom Fields O Custom Field id * O	
Iloq Apl Secret Empty O Custom Fields O Custom Field Id * O Custom Field Id * O Custom Field Type *	
Iloq Api Secret Emply O Custom Fields O Item O Custom Field Id * O Custom Field Type * Text	
Item Pields Custom Fields Custom Field Id * Custom Field Id * Custom Field Type * Text Item Item Item Item Item Item Item It	

A llog Base In *	
https://s10.iloq.com/iloqpool2wss85/api/v2/	
O lloq Username *	
Admin	
-	
Ilog Password *	
~ Encrypted ~	
Ilog Customer Code *	
ILOQ_69668	
On them tool Mary	
lioq Api Key	
Enpty	
🛛 lloq Api Secret	
Empty	
A line Polline +	
Sec Exp Soap End Point •	
http://localhost:8030/SecurityExpertSOAPService/Service.svc	
O Assessible three	
Basichttpläinding_IService1	
O Username *	
ilock	
A Beautral	
• Password •	
~ Encrypted ~	
Site Id	
1	1
Custom Fields	
O Item 1	
Custom Field Id *	
	P
Custom Field Type *	
Text	• 0
O Is Primary *	
Inue	* 0

Processor – iLOQ To Security Expert

Once you have configured the processors correctly, you should then be able to start them.

A log file in the following directory C:\ProgramData\SmartConnector\Logs will allow you to see what the processors are doing. A log file is generated every day so open the one with the current date.

5 **Revision History**

Version	Assembly File Details	Date
1.1.0.2145	Service.dll	10/08/2024
1.1.0.2145	Core.dll	10/08/2024
1.1.0.2145	Domain.dll	10/08/2024
1.1.0.2145	SE_iLOQ_Integration.dll	10/08/2024

Assembly files required:

AutoMapper.dll Core.dll Domain.dll Microsoft.AspNet.WebHooks.Common.dll Microsoft.AspNet.WebHooks.Receivers.Custom.dll Microsoft.AspNet.WebHooks.Receivers.dll NCrontab.Signed.dll NLog.Targets.Syslog.dll SE_iLOQ_Integration.dll Service.dll SimpleInjector.dll

6 References

SmartConnector Installation and Configuration Guide.pdf (TDS-M-INSTALLCONFIG-US.BU.N.EN.12.2017.2.30.CC)

SmartConnector Version 2.2 Release Notes.pdf (TDS-M-RELEASENOTES-US.BU.N.EN.12.2017.2.30.CC)

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