

EcoStruxure Building Operation

Prologic First PMS

Integration

SmartConnector

Installation & User Guide

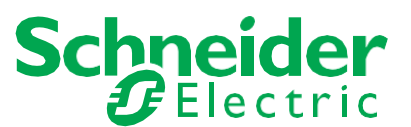
May 2023



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1

Functional Overview

The Prologic First PMS system interface is a middleware application that enables communication between Prologic First applications with EcoStruxure Building Operation via EcoStruxure Web Services (EWS). Each room in the PMS is represented in the EcoStruxure Building Operation model of the PMS. PMS attributes configured in the interface may be used to implement custom sequences. A multi-state value indicates the number of persons checked into a room as well as information for the guest's name, language and expected departure date. The interface can fully represent items in the PMS system with data synchronisation between the two systems. This ensures the SmartConnector database is maintained and kept up to date without any user intervention.

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 2.5.4.18, use with any other 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.

3 Installation

The Smart Connector configuration tool is packaged in a Windows Installer file. Follow the basic installation steps to install the software.

Please refer to the Smart Connector Installation and Configuration Guide.pdf for guidance on Smart Connector Service Installation.

To deploy the Prologic First PMS assembly, copy the files shown below into the service installation directory. Normally “C:\Program Files (x86)\Schneider Electric\SmartConnector”.

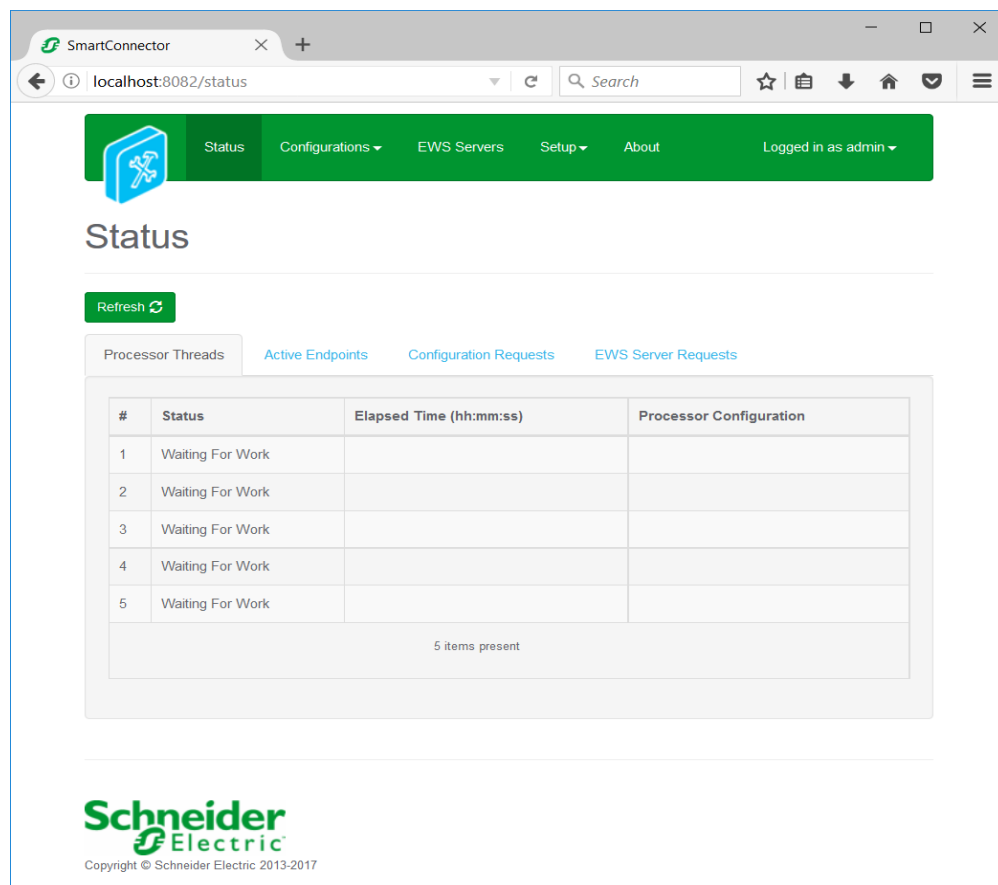
-  ISC.FiasProtocol.dll
-  ISC.PmsSql.dll
-  ISC.PrologicFirst.dll
-  Microsoft.SqlServer.ConnectionInfo.dll
-  Microsoft.SqlServer.Dmf.dll
-  Microsoft.SqlServer.Management.Sdk.Sfc.dll
-  Microsoft.SqlServer.ServiceBrokerEnum.dll
-  Microsoft.SqlServer.Smo.dll
-  Microsoft.SqlServer.SqlEnum.dll
-  NCrontab.Signed.dll
-  NLog.Targets.Syslog.dll

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/>

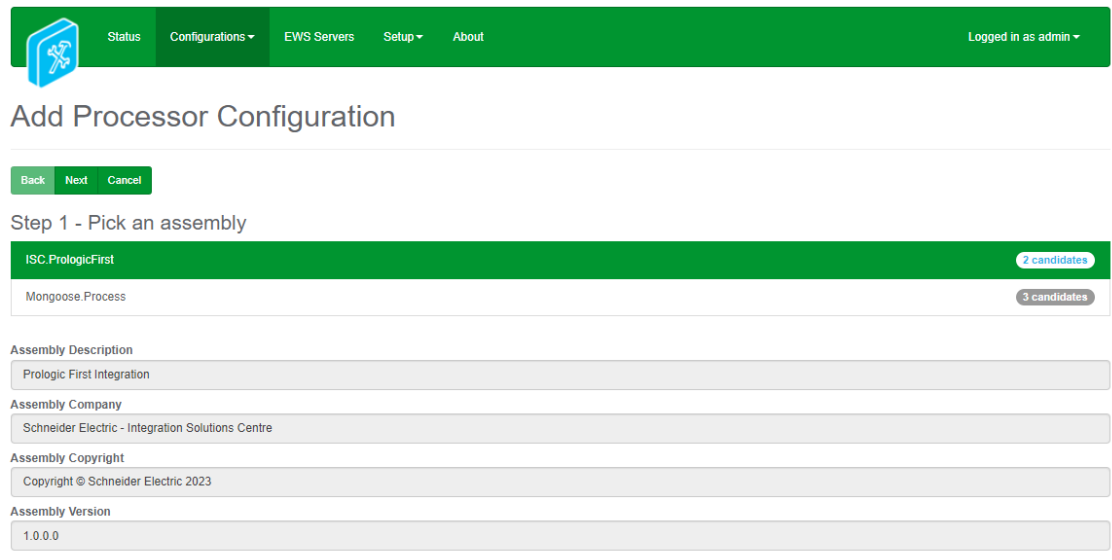


4.2 Adding the Custom Assembly to the Service

Switch to the Configurations tab and select Add New +



At the Add Configuration window, Step 1 – Pick an assembly, select the reference to ISC.PrologicFirst (this will be highlighted green when selected)

The screenshot shows the 'Add Processor Configuration' window. At the top, there is a navigation bar with tabs: Status, Configurations (selected), EWS Servers, Setup, and About. The user is logged in as 'admin'. The main heading is 'Add Processor Configuration'. Below this, there are three buttons: 'Back', 'Next', and 'Cancel'. The current step is 'Step 1 - Pick an assembly'. There are two assembly options listed: 'ISC.PrologicFirst' (highlighted in green) with '2 candidates' and 'Mongoose.Process' with '3 candidates'. Below the list, there are several input fields for assembly details: 'Assembly Description' (Prologic First Integration), 'Assembly Company' (Schneider Electric - Integration Solutions Centre), 'Assembly Copyright' (Copyright © Schneider Electric 2023), and 'Assembly Version' (1.0.0.0).

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Select Next and proceed to Step 2 Choose a Class

Ensure the class ISC.PrologicFirst.InterfaceProcessor is selected

ISC.PrologicFirst.InterfaceProcessor

Select Next and proceed to 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.

Processor Configuration

Edit All | Start | Validate | Reset Counter | Reset Timer

Name: Prologic First Interface Processor | Is Active: True

Description: Create connection with PMS to request and receive data. Send heartbeat and Update last connection time.

Processor | Details | Control | History | Schedule

Class Name: ISC.PrologicFirst.InterfaceProcessor

Assembly File: ISC.PrologicFirst.dll

Assembly Description: Prologic First Integration

Assembly Company: Schneider Electric - Integration Solutions Centre

Assembly Copyright: Copyright © Schneider Electric 2023

Assembly Version: 1.0.0.0



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In the configuration window select the Details Tab, you will then be presented with the screen to enter the configuration information. Much of the configuration has default options however they should be checked and validated for the installation. Edit the applicable fields as follows.

IP Address and Port Number

These properties should be set to Server’s IP Address and Port Number respectively to establish connection with Micros server.

Read Write Time Out

This property is to set amount of time (in milliseconds) that Read and Write operations block waiting for Data.

Heartbeat Mins

This property is to set the interval (in minutes) between Heartbeat messages.

Cache Message Expiry Duration Minutes

This property is to set the duration of a message held in Cache before it expires.

Cache Write Sleep Time

This property is to set the time interval (in milliseconds) that Cache waits before processing the next message.

PMS Connection Retry Interval

This property is to set the time interval (in seconds) between connection retries to PMS.

In the configuration window select the Control Tab, you will then be presented with several options to define the Processor's default behaviour. It is recommended to set the following.

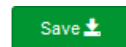
Runs On Start – Yes (To enable the Processor to automatically start with the machine)

Runs On Schedule – Yes (Although this processor should never terminate, attaching a short cycling schedule will ensure that if it stops unexpectedly, it will attempt to auto restart on the schedule.)

Manually Start able – Yes (To allow a user to start through the configuration window)

Manually Stoppable - Yes

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



A complete configuration will appear as follows:

Processor Configuration

Edit All Start Validate Reset Counter Reset Timer

Name: Prologic First Interface Processor Is Active: True

Description: Create connection with PMS to request and receive data. Send heartbeat and Update last connection time.

Processor Details Control History Schedule

Expand All Collapse All

Details

- Port Number * 5050
- Ip Address *
- Read Write Time Out * 2000
- Heartbeat Mins * 1
- Cache Message Expiry Duration Minutes * 30
- Cache Write Sleep Time * 1
- Pms Connection Retry Interval * 5



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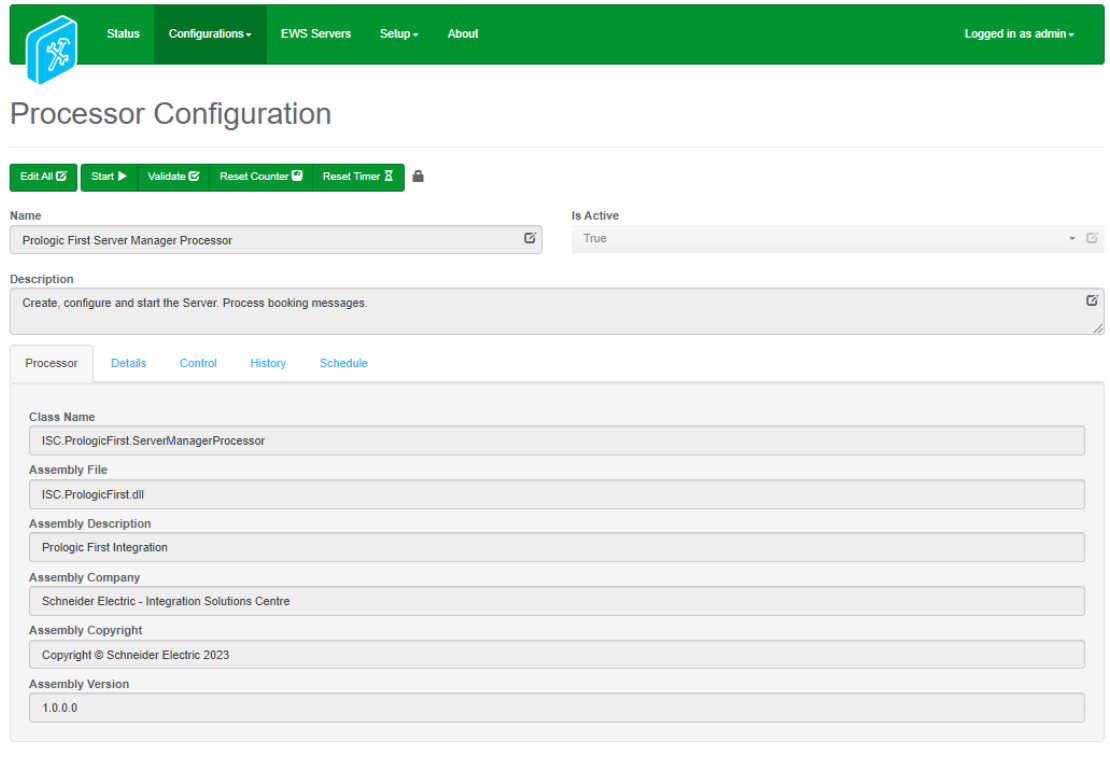
Follow the same procedure to configure the second Processor.

Ensure the class `ISC.PrologicFirst.ServerManagerProcessor`

Select Next and proceed to 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.



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In the configuration window select the Details Tab, you will then be presented with the screen to enter the configuration information. Much of the configuration has default options however they should be checked and validated for the installation. Edit the applicable fields as follows.

User Name

This property is required to allow the EWS server connection to be authenticated.

Password

As above, this is the password related to the user credentials.

Server Address

This property should be set to the full address required to access the EWS Server being hosted. This is normally in the case of a StruxureWare ES or AS device as follows:

[http://<IPADDRESS>:<PORT\(8093\)>/EcoStruxure/DataExchange](http://<IPADDRESS>:<PORT(8093)>/EcoStruxure/DataExchange)

***Note that the address is case sensitive!**

Server Name

This property is just a friendly text name field to allow you to easily identify the specific Endpoint you are configuring.

Checkout Time

This property is just a default Date Time field to allow you to specify a checkout Time of your preference.

Room Text

This property is just a friendly text name field to allow you to identify the specific property you are configuring.

Occupied

This property is just a friendly text name field to allow you to identify the specific property you are configuring.

Departure Date

This property is just a friendly text name field to allow you to identify the specific property you are configuring.

Guest Name

This property is just a friendly text name field to allow you to identify the specific property you are configuring.

Guest Language

This property is just a friendly text name field to allow you to identify the specific property you are configuring.

Folder Text

This property is just a friendly text name field to allow you to identify the specific property you are configuring.

In the configuration window select the Control Tab, you will then be presented with several options to define the Processor's default behavior. It is recommended to set the following:

Runs On Start – Yes (To enable the Processor to automatically start with the machine)

Runs On Schedule – Yes (Define a schedule that determines how often the server is updated with messages received from the PMS – Suggested value would be 15 seconds)

Manually Startable – Yes (To allow a user to start through the configuration window)
Manually Stoppable – Yes

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



A complete configuration will appear as follows:

A screenshot of a web application interface for configuring a processor. The top navigation bar is green and contains "Status", "Configurations", "EWS Servers", "Setup", and "About", along with a user login "Logged in as admin". The main heading is "Processor Configuration". Below this is a toolbar with "Edit All", "Start", "Validate", "Reset Counter", and "Reset Timer". The configuration form includes fields for "Name" (Prologic First Server Manager Processor), "Is Active" (True), and "Description" (Create, configure and start the Server. Process booking messages.). A tabbed interface shows "Details" selected, displaying a list of configuration fields: "User Name" (admin), "Password" (~ Encrypted ~), "Server Address" (http://localhost:8093/EcoStruxure/DataExchange), "Server Name" (New Server), "Checkout Time" (12:00:00), "Room Text" (Room), "Occupied" (Occupancy Status), "Departure Date" (Departure Date), "Guest Name" (Guest Name), "Guest Language" (Guest Language), and "Folder Text" (Folder for Room). Each field has an edit icon.



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Once the SmartConnector EWS Server Interface has been hosted in EcoStruxure Building Operation, rooms will be displayed as follows:












The screenshot displays the EcoStruxure Building Operation interface. On the left, the 'System Tree' shows a hierarchical view of the system components. Under 'PrologicFirst Server', 'Room 1' is selected, showing its sub-components: RoomDD, RoomGL, RoomGN, RoomOCC, Room 2, and Room 3. On the right, the 'Room 1' properties are displayed in a list view. The list has two columns: 'Name' and 'Description'. The entries are: RoomDD (Departure Date), RoomGL (Guest Language), RoomGN (Guest Name), and RoomOCC (Room Occupancy).

Name	Description
RoomDD	Departure Date
RoomGL	Guest Language
RoomGN	Guest Name
RoomOCC	Room Occupancy

5 Revision History

Version	Assembly File Details	Date
1.0.0.11	ISC.PrologicFirst.dll	23rd May 2023

Assembly files required:

-  ISC.FiasProtocol.dll
-  ISC.PmsSql.dll
-  ISC.PrologicFirst.dll
-  Microsoft.SqlServer.ConnectionInfo.dll
-  Microsoft.SqlServer.Dmf.dll
-  Microsoft.SqlServer.Management.Sdk.Sfc.dll
-  Microsoft.SqlServer.ServiceBrokerEnum.dll
-  Microsoft.SqlServer.Smo.dll
-  Microsoft.SqlServer.SqlEnum.dll
-  NCrontab.Signed.dll
-  NLog.Targets.Syslog.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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