

EcoStruxure Building Operation

Hilton OnQ Integration

SmartConnector

Installation & User Guide

04-20018-02-en
September 2024



Life Is On

Internal

Schneider
Electric

EcoStruxure Building Operation

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1 Functional Overview

The Hilton OnQ PMS system interface is a middleware application that enables communication between Hilton OnQ 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 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, 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.

2.3 Hilton OnQ Supported System


























The SmartConnector has been tested and validated against the OnQ Interface Application Specification v2.12

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

3 Installation

Please refer to the SmartConnector Installation and Configuration Guide.pdf for guidance on SmartConnector installation.

To deploy the OnQ assembly copy the below files into the service installation directory. Normally "C:\Program Files (x86)\Schneider Electric\SmartConnector"

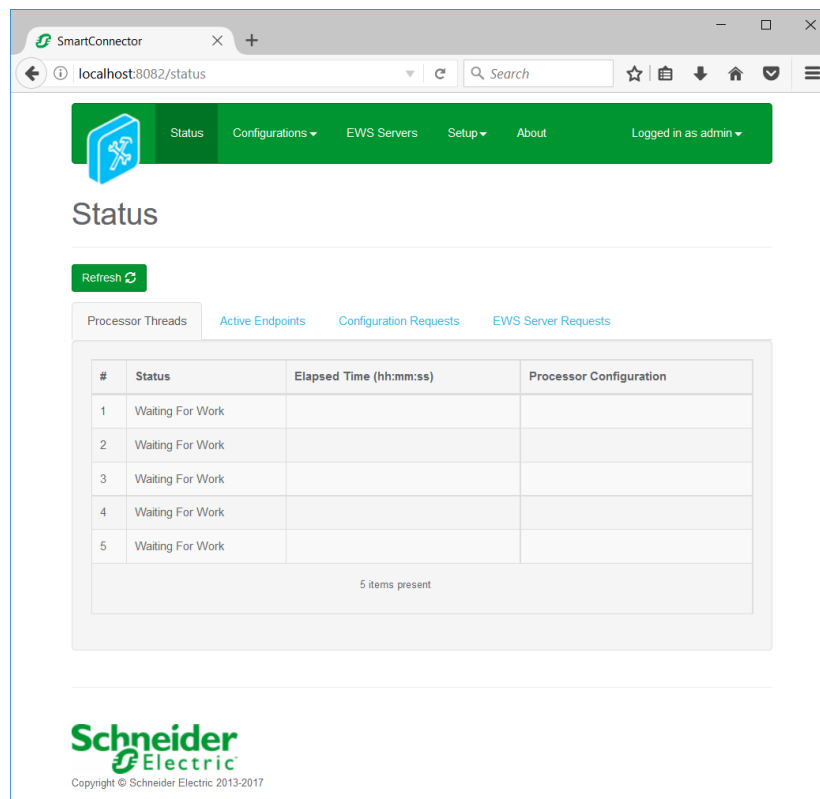
-  Cucumber.Messages.dll
-  Gherkin.dll
-  Google.Protobuf.dll
-  ISC.FiasProtocol.dll
-  ISC.OnQ.dll
-  ISC.PmsSql.dll
-  Microsoft.Rest.ClientRuntime.dll
-  Microsoft.SqlServer.ConnectionInfo.dll
-  Microsoft.SqlServer.Dmf.dll
-  Microsoft.SqlServer.Management.Sdk.Sfc.dll
-  Microsoft.SqlServer.ServiceBrokerEnum.dll
-  Microsoft.SqlServer.Smo.dll
-  Microsoft.SqlServer.SqlEnum.dll
-  NCrontab.Signed.dll
-  Newtonsoft.Json.Bson.dll
-  NLog.Targets.Syslog.dll
-  SmartConnector.Utilities.dll
-  System.Buffers.dll
-  System.Memory.dll
-  System.Numerics.Vectors.dll
-  System.Runtime.CompilerServices.Unsafe.dll
-  System.Threading.Tasks.Extensions.dll
-  System.Web.Http.WebHost.dll
-  TechTalk.SpecFlow.dll
-  Utf8Json.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/>



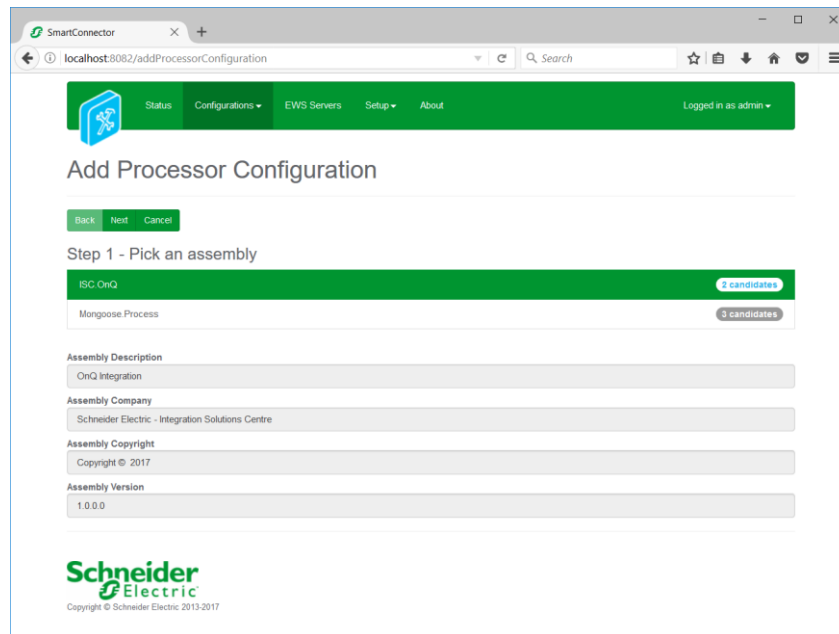
4.2

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.OnQ (this will be highlighted green when selected)



Select Next and proceed to Step 2 Choose a Class

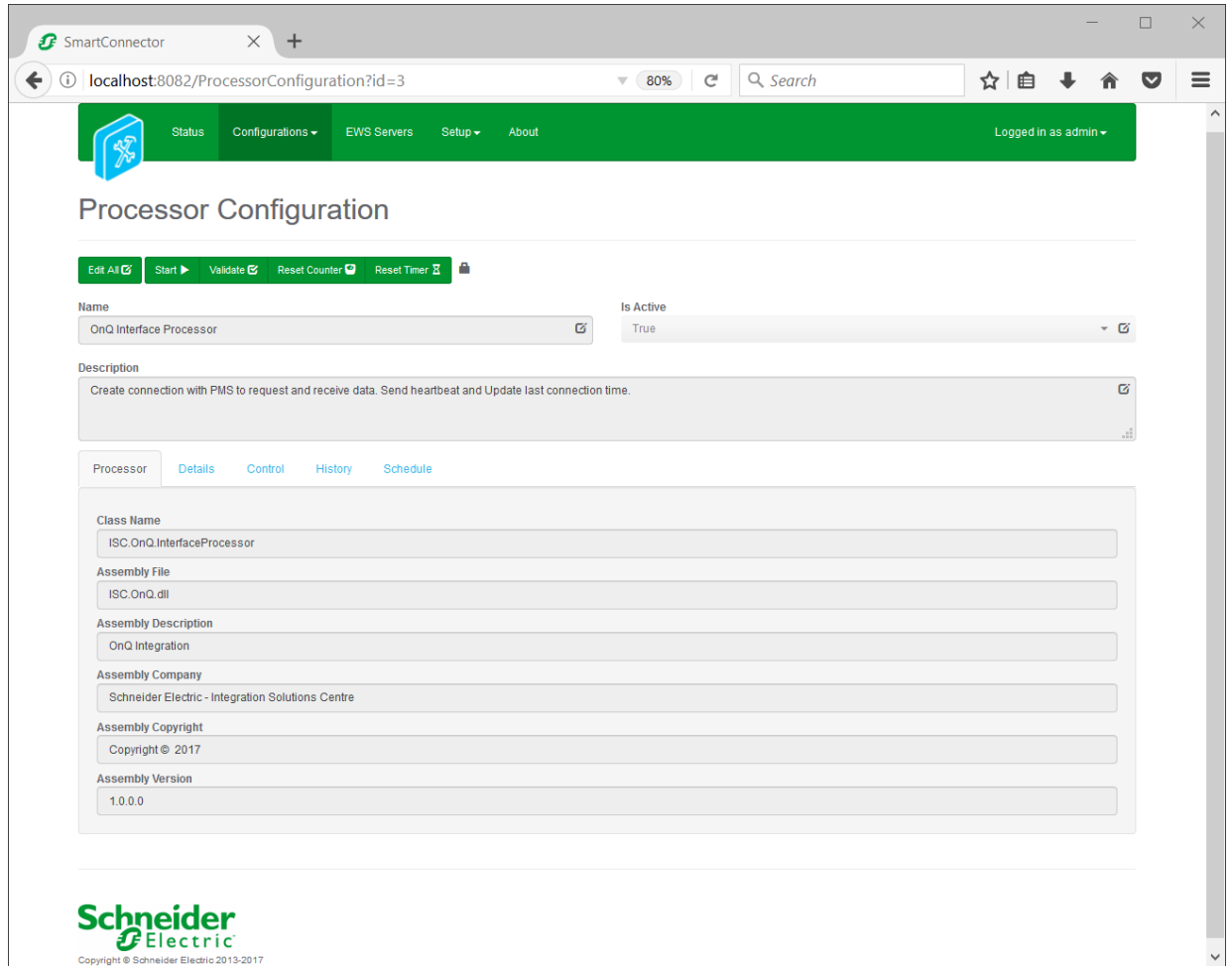
Ensure the class ISC.OnQInterfaceProcessor is selected first

ISC.OnQ.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.



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 OnQ server.

Restart Communication Time

This property is to set the amount of time (in minutes) that the service will wait to reset the connection after the last message received during a Data Swap.

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 behavior. It is recommended to set the following;

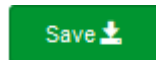
Runs On Start – Yes (To enable the Processor to automatically start with the machine)

Runs On Schedule – Yes (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 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:

Expand All Collapse All

Details

- Port Number *
5040
- Restart Communication Time *
5
- Ip Address *
127.0.0.1
- Read Write Time Out *
2000
- Heartbeat Mins *
1
- Cache Message Expiry Duration Minutes *
30
- Cache Write Sleep Time *
1
- Pms Connection Retry Interval *
5

Follow the same procedure to configure the second Processor.

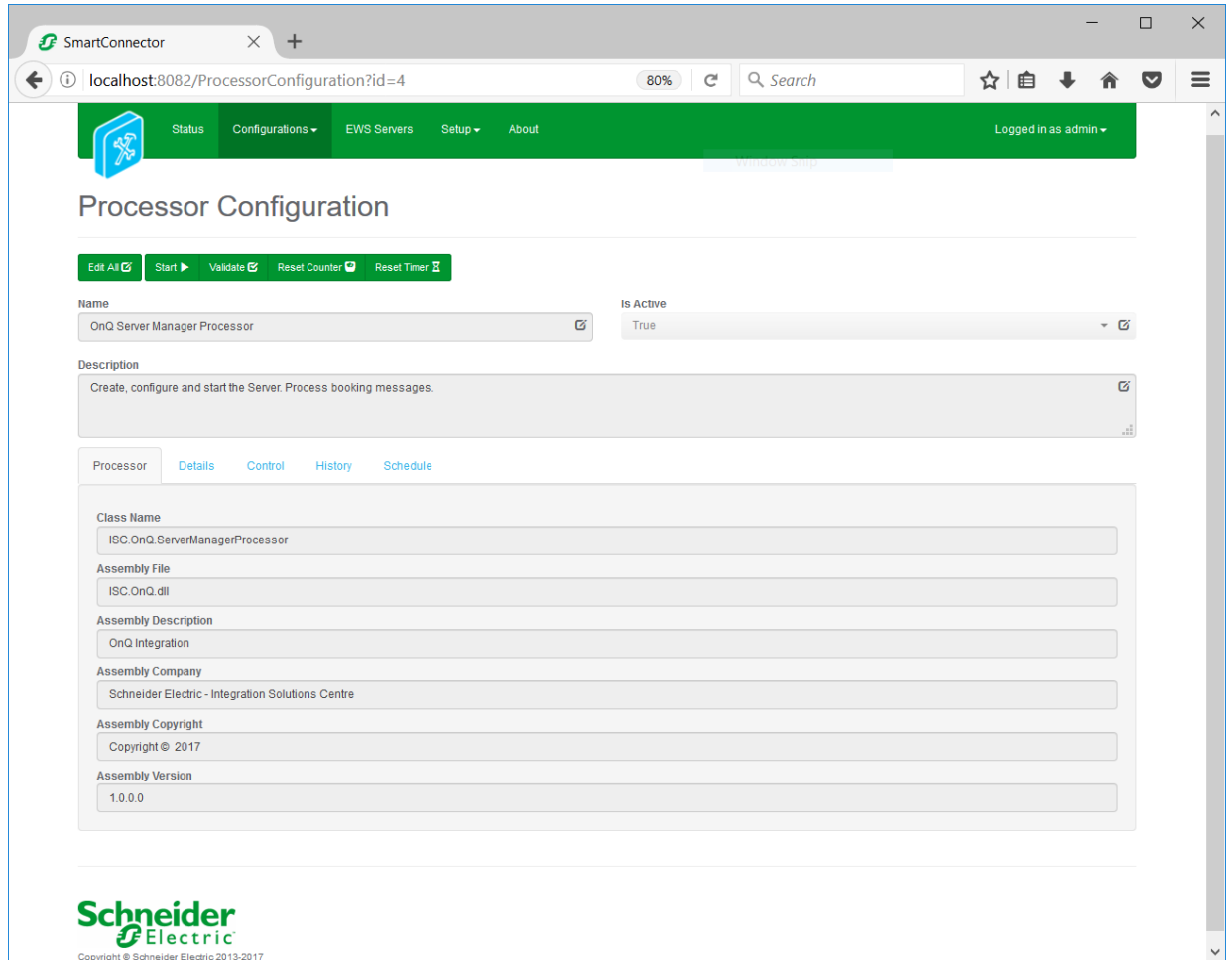
Ensure the class `ISC.OnQServerManagerProcessor` is selected

`ISC.OnQ.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.



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 is 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)

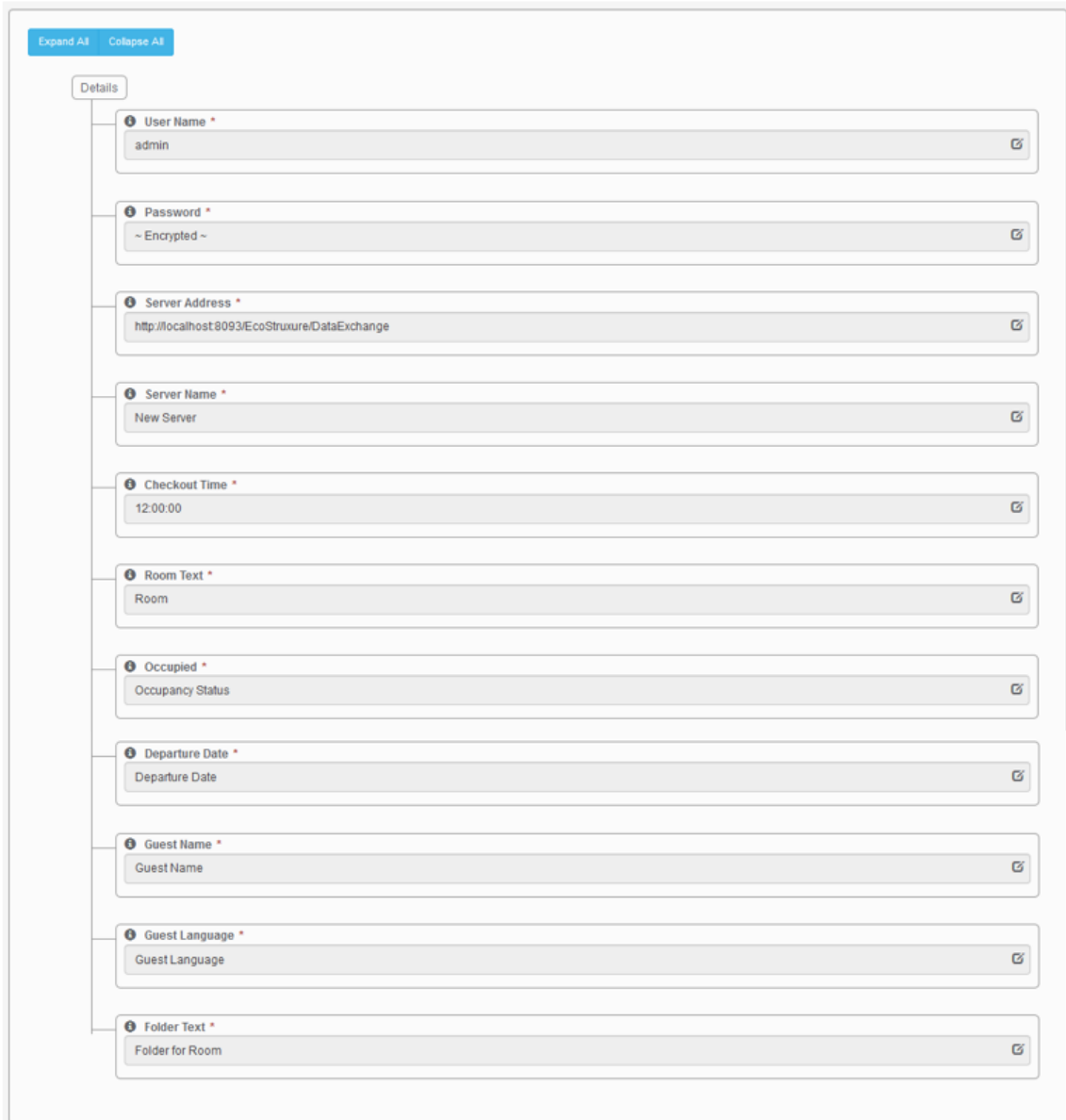
Manually Startable – Yes (To allow a user to start through the configuration window)

Manually Stoppable - Yes

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



A complete configuration will appear as follows:



The screenshot shows a configuration form with the following fields:

- User Name ***: admin
- Password ***: ~ Encrypted ~
- Server Address ***: http://localhost:8093/EcoStructure/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
- Folder Text ***: Folder for Room

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


























The screenshot displays the SmartConnector EWS Server Interface. At the top, a green breadcrumb navigation bar shows the path: Server 1 > Hilton PMS B > Hilton PMS B > Room1. On the left, the 'System Tree' pane shows a hierarchical view of the system. Under 'Hilton PMS B', there are two sub-nodes, both labeled 'Hilton PMS B'. The second 'Hilton PMS B' node is expanded to show 'Room1', which contains four sub-nodes: RoomDD, RoomGL, RoomGN, and RoomOCC. Below these are Room2, Room3, Connection Status, and Last Connection Datetime. On the right, the 'Room1' properties pane is active. It features a 'List View' tab and a 'Properties' tab. Below the tabs is a toolbar with icons for folder operations and a 'Quick filter' input field. A table displays the properties for the selected room:

Name	Description	Value
RoomDD	Departure Date	25/09/2024 09:51:01
RoomGL	Guest Language	EN
RoomGN	Guest Name	NOTUSED NOTUSED
RoomOCC	Occupancy Status	0 [Offline]

5 Revision History

Version	Assembly File Details	Date
1.0.2.29	ISC.FiasProtocol.dll	25 th September 2024
1.0.2.29	ISC.OnQ.dll	25 th September 2024
1.0.2.29	ISC.PmsSql.dll	25 th September 2024

Assembly files required:

-  Cucumber.Messages.dll
-  Gherkin.dll
-  Google.Protobuf.dll
-  ISC.FiasProtocol.dll
-  ISC.OnQ.dll
-  ISC.PmsSql.dll
-  Microsoft.Rest.ClientRuntime.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
-  Newtonsoft.Json.Bson.dll
-  NLog.Targets.Syslog.dll
-  SmartConnector.Utilities.dll
-  System Buffers.dll
-  System.Memory.dll
-  System.Numerics.Vectors.dll
-  System.Runtime.CompilerServices.Unsafe.dll
-  System.Threading.Tasks.Extensions.dll
-  System.Web.Http.WebHost.dll
-  TechTalk.SpecFlow.dll
-  Utf8Json.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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