

EcoStruxure Building Operation

Gladstone Integration

SmartConnector

Installation & User Guide

04-20018-02-en
December 2019



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1

Functional Overview

The Gladstone Interface is a middleware application that enables communication between Gladstone Room Booking API service with EcoStruxure Building Operation via EcoStruxure Web Services (EWS). Each room in the Room Booking System is represented in the EcoStruxure Building Operation model of the Room Booking System. A string value indicates the Activity Id currently taking place in the room and a Boolean value indicates if the room is currently in use. Also, Date Time values represent the Start and End Time of the activity. The interface can fully represent items in the Room Booking 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 2.4, 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

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

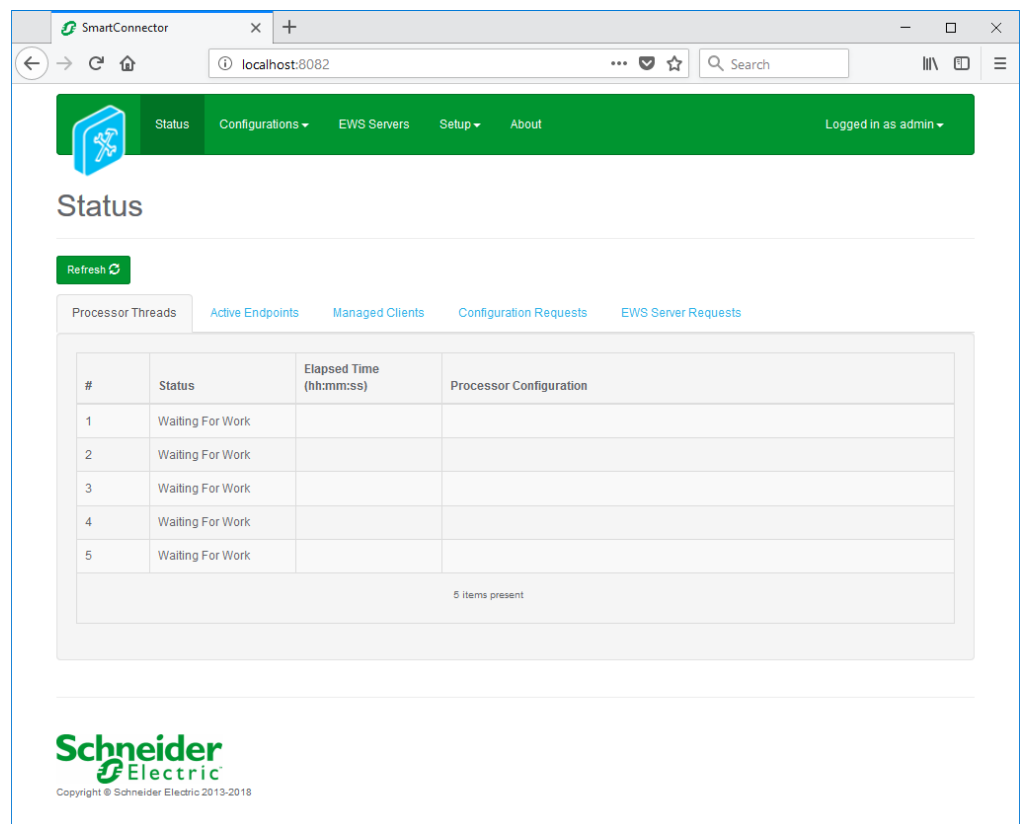
To deploy the Gladstone assembly copy the files “ISCUK.GladstoneInterface.dll”, “MJH.Logger.dll” and “LoggerConfig.xml” into the service installation directory. Normally “C:\Program Files (x86)\Schneider Electric\SmartConnector”

4 Configuration & Settings

4.1 Processor Configuration

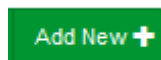
With a default installation of SmartConnector, the configuration pages for the server can be reached at the following address on the server the service has been installed on:

<http://localhost:8082/>

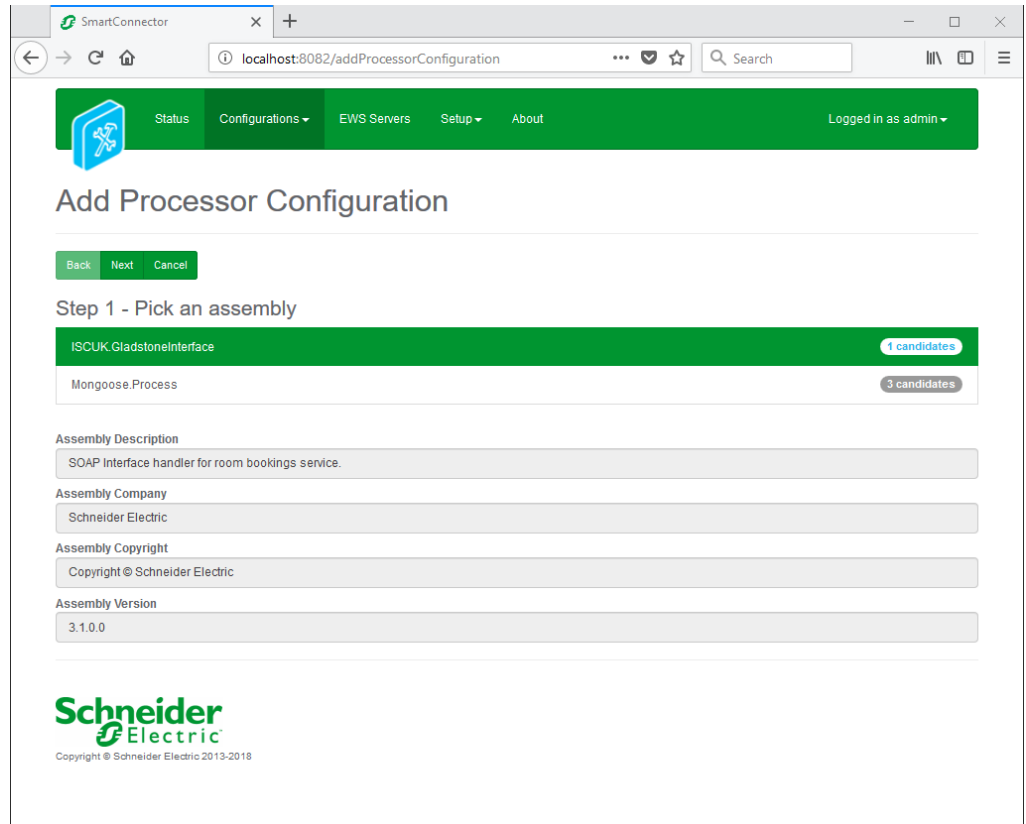


4.2 Adding the Custom Assembly to the Service

Switch to the Configurations tab and select Add New +



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



Select Next and proceed to Step 2 Choose a Class

Ensure the class

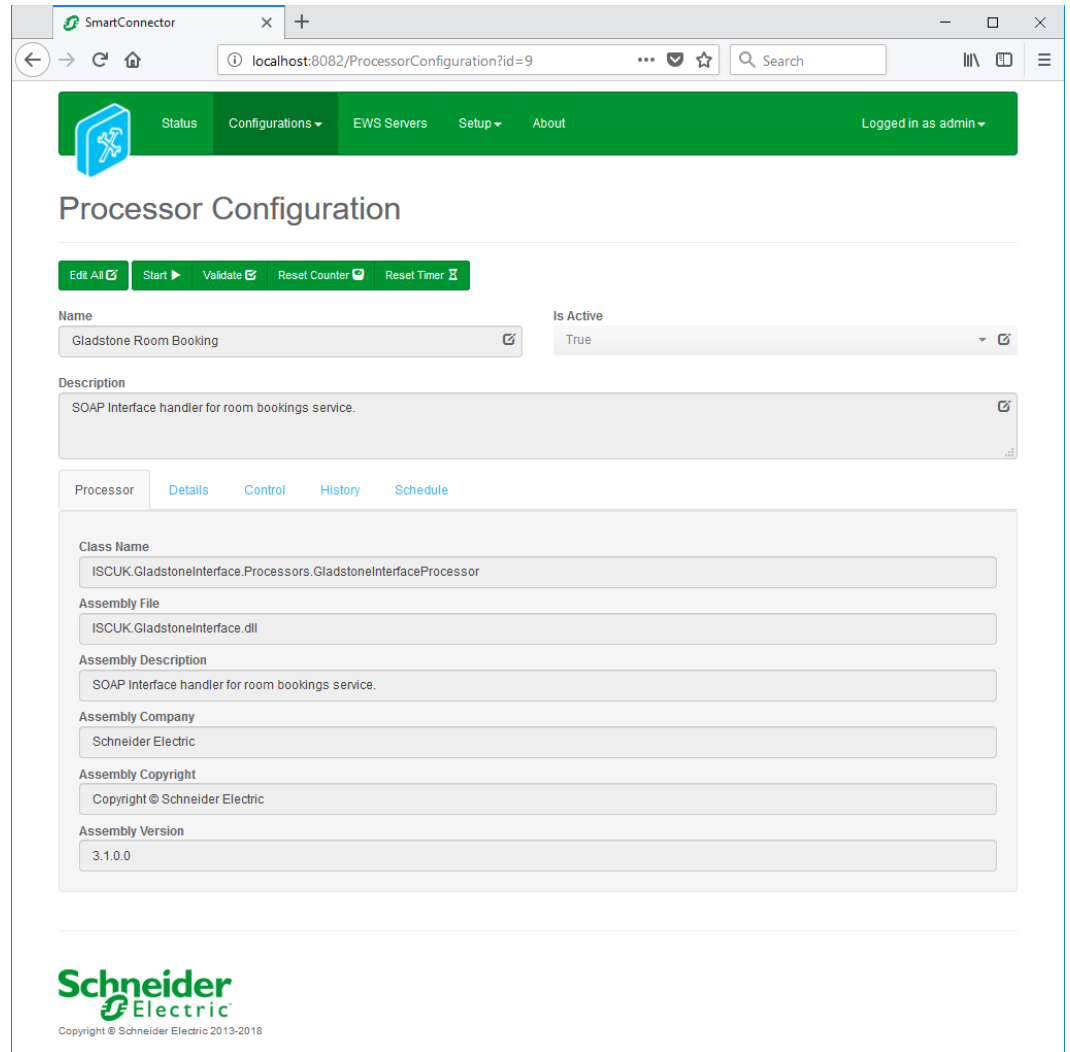
ISCUK.GladstoneInterface.Processor.GladstoneInterfaceProcessor is selected first

ISCUK.GladstoneInterface.Processors.GladstoneInterfaceProcessor

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 already entered 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 Gladstone's Room Booking API connection to be authenticated.

Password

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

App Name

As above, this is the application name related to the user credentials.

Ews User Name

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

Ews Password

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

End Point

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 EcoStruxure ES or AS device as follows:

[http://<IPADDRESS>:<PORT\(5696\)>/DataExchange](http://<IPADDRESS>:<PORT(5696)>/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.

Booking Lead Time

This property should be set to a non-decimal number to be executed.

Booking Request End Time Additional Hours

This property should be set to a non-decimal number to be executed.

Resource Group Ids

This property should be set to all Group Ids related to rooms.

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

User Name *

Password *
~ Encrypted ~

App Name *

Ews User Name *
admin

Ews Password *
~ Encrypted ~

End Point *
http://localhost:5696/DataExchangeGladstone

Server Name *
Gladstone Booking Server

Booking Lead Time *
5

Booking Request End Time Additional Hours *
24

Resource Group Ids *
MF003C,MSWM918

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. On the left, the 'System Tree' shows a hierarchy: Gladstone Interface > Gladstone Booking Server B > NB1SHCT1 > NB1SHCT2. The right pane shows the 'Properties' view for NB1SHCT2, which includes a table with the following data:

Name	Description	Value
EndTime	End Date Time	11/08/2015 14:39:06
GroupId	Activity Group Id	MNETB
InUse	Room in Use	True
StartTime	Start Date Time	11/08/2015 12:39:07

Version	Assembly File Details	Date
3.1.1.5	ISCUK.GladstoneInterface.dll	24 th May 2021
2.5.0.0	MJH.Logger.dll	16 th Dec 2020
	LoggerConfig.xml	16 th Dec 2020

Assembly files required:

ISCUK.GladstoneInterface.dll

MJH.Logger.dll

LoggerConfig.xml

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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