

EcoStruxure Building Operation

SMTS SMS SmartConnector

Installation & User Guide

June 2024



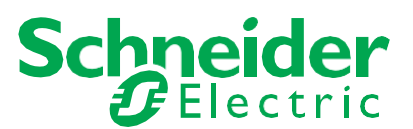
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1

Functional Overview

The SMTP SMS Smart Connector interface is a middleware application that enables communication between EcoStruxure Building Operation and SMS server and communicates to remote SMTP Server. The Smart Connector SMTP SMS interface acts as a SMTP Server to receive alarms from EcoStruxure Building Operation (EBO) and sends the alarm details as SMS. The Smart Connector acting as a SMTP Server supports TLS/SSL protocols.

The Smart Connector SMTP SMS interface also acts as a SMTP Client to send the received alarm from EcoStruxure Building Operation (EBO) to a remote SMTP server. The Smart Connector acting as a SMTP Client supports TLS/SSL protocols.

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.x, 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 SMTP SMS SmartConnector assembly, copy the files –

-  BitFactory.Logging.dll
-  BouncyCastle.Crypto.dll
-  BouncyCastle.Cryptography.dll
-  ISC.SmtpSmsProcessor.dll
-  MailKit.dll
-  MimeKit.dll
-  NCrontab.Signed.dll
-  NLog.Targets.Syslog.dll
-  Simple.MailServer.dll
-  StarkbankEcdsa.dll
-  System Buffers.dll
-  System.Memory.dll
-  System.Numerics.Vectors.dll
-  System.Runtime.CompilerServices.Unsafe.dll
-  System.Threading.Tasks.Extensions.dll

into the service installation directory.

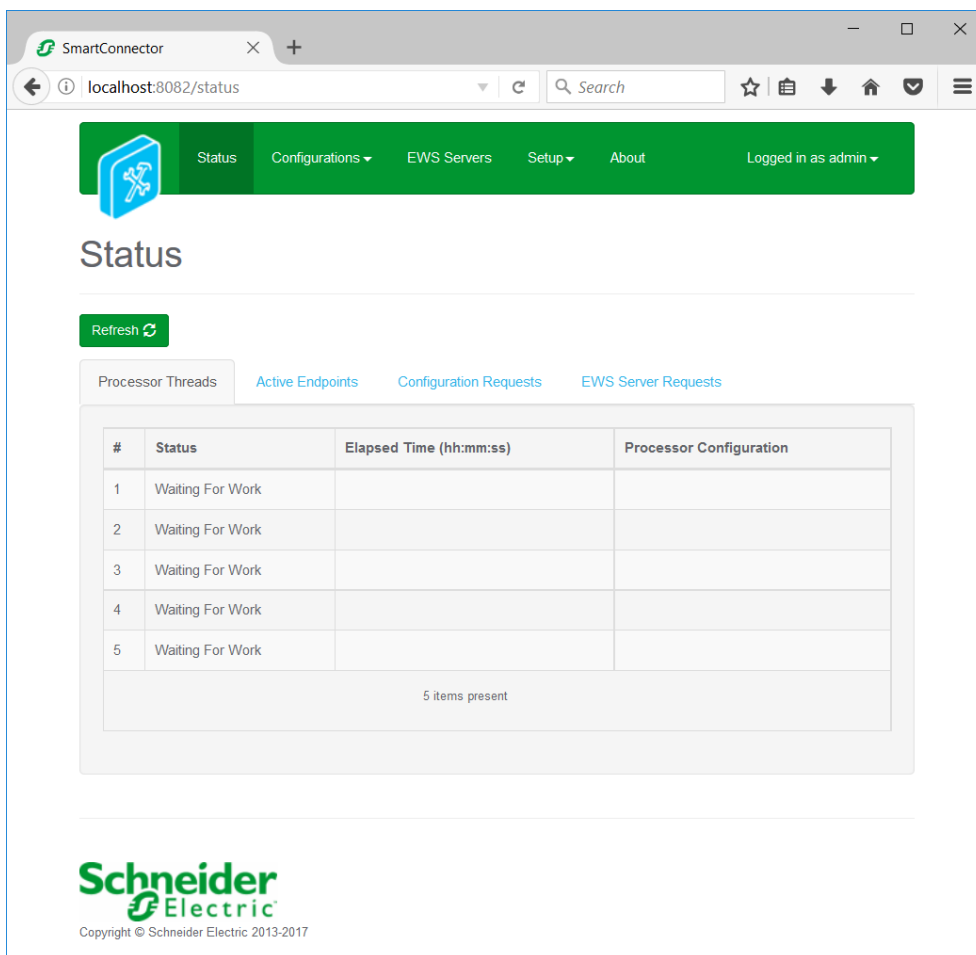
Normally “C:\Program Files (x86)\Schneider Electric\SmartConnector”

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/>



The screenshot shows a web browser window with the URL `localhost:8082/status`. The page has a green navigation bar with a logo and menu items: Status, Configurations, EWS Servers, Setup, and About. The user is logged in as admin. The main content area is titled "Status" and includes a "Refresh" button. Below this, there are tabs for "Processor Threads", "Active Endpoints", "Configuration Requests", and "EWS Server Requests". The "Processor Threads" tab is active, displaying a table with the following data:

#	Status	Elapsed Time (hh:mm:ss)	Processor Configuration
1	Waiting For Work		
2	Waiting For Work		
3	Waiting For Work		
4	Waiting For Work		
5	Waiting For Work		

At the bottom of the table, it indicates "5 items present". The Schneider Electric logo and copyright information (© Schneider Electric 2013-2017) are visible at the bottom of the page.

4.2

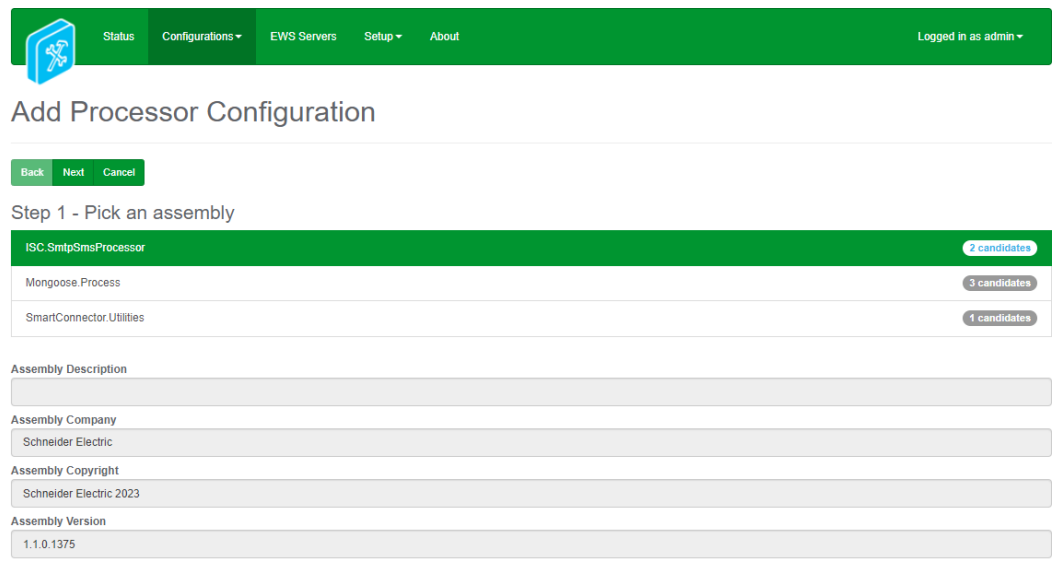
Adding the Custom Assembly to the Service

Switch to the Configurations tab and select Processor and click on Add New +



At the Add Configuration window,

Step 1 – Pick an assembly, select the reference to “**ISC.SmtpSmsProcessor**” (this will be highlighted green when selected)



The screenshot shows the "Add Processor Configuration" window. At the top, there is a navigation bar with "Status", "Configurations", "EWS Servers", "Setup", and "About" tabs. The "Configurations" tab is active. A user is logged in as "admin". Below the navigation bar, the title "Add Processor Configuration" is displayed. A "Back Next Cancel" button bar is present. The main content area is titled "Step 1 - Pick an assembly". It features a list of assemblies with their respective candidate counts:

Assembly Name	Candidates
ISC.SmtpSmsProcessor	2 candidates
Mongoose Process	3 candidates
SmartConnector.Utilities	1 candidates

Below the list, there are several input fields for assembly details:

- Assembly Description
- Assembly Company: Schneider Electric
- Assembly Copyright: Schneider Electric 2023
- Assembly Version: 1.1.0.1375



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Select Next and proceed to

Step 2: Choose a Class

Ensure the class “**ISC.SmtpSmsProcessor.SmtpServerProcessPassThrough**” is selected.



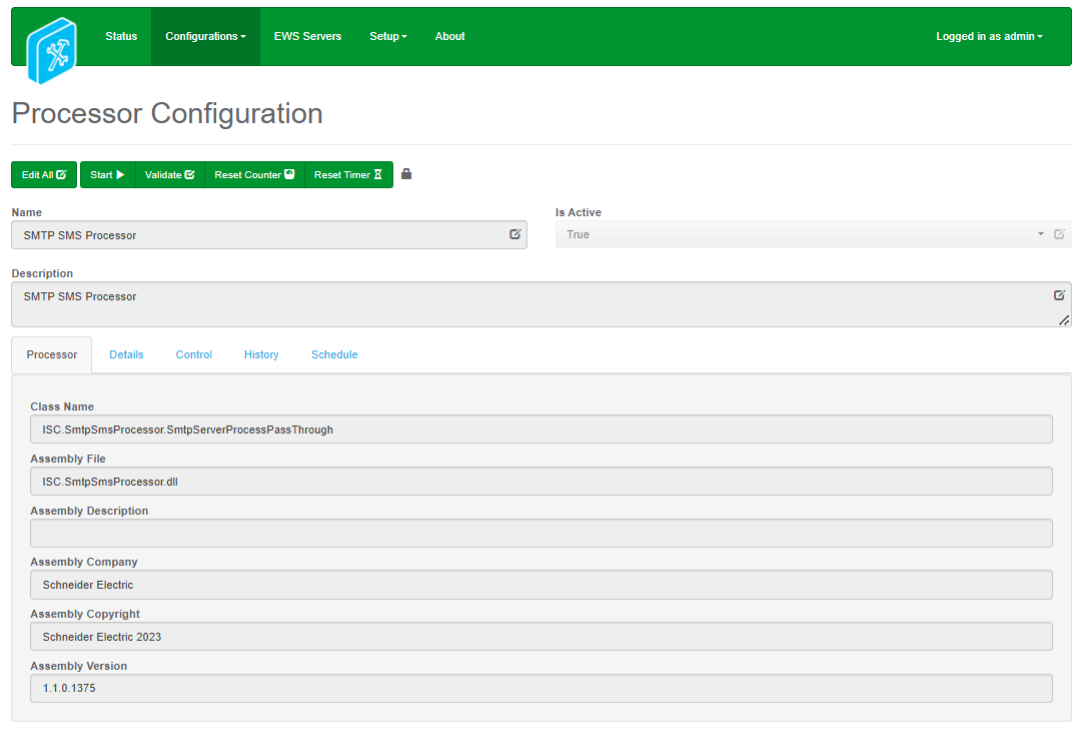
The screenshot shows the "Add Processor Configuration" window at "Step 2 - Choose a Class". A "Back Next Cancel" button bar is present. The main content area displays a list of classes:

ISC.SmtpSmsProcessor.SmtpServerProcessPassThrough
ISC.SmtpSmsProcessor.SmtpServerProcessStandalone

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.

SMS Gateway Address

IP Address of Teltonika Device.

SMS Gateway User Name

Enter the username credential which the Smart Connector will use to connect to the SMS Gateway.

SMS Gateway Password

Enter the password credential which the Smart Connector will use to connect to the SMS Gateway.

SMS Only String

The Text to look for in Subject line to stop SMS going out.

Email Only String

The Text to look for in Subject line to stop Emails going out.

The screenshot shows a configuration window with tabs for Processor, Details, Control, History, and Schedule. The 'Details' tab is active, displaying a list of fields for SMS Gateway configuration. At the top of the details section are 'Expand All' and 'Collapse All' buttons. The fields are:

- Sms Gateway Address ***: 192.168.0.234
- Sms Gateway User Name ***: admin
- Sms Gateway Password ***: ~ Encrypted ~
- Sms Only String ***: (SMS-ONLY)
- Email Only String ***: (EMAIL-ONLY)

Expand - Local Smtip Server Details Field.

Local Smtip Ip Address

The Local IP Address that will be used by EcoStruxure Building Operation (EBO) to send Emails to.

Local Smtip Port

The Port Number that EcoStruxure Building Operation (EBO) will connect to.

Smtip Encryption Mode

Select the Protocol for setting up the local SMTP Server.

Certificate Path

Specify the Local Server Certificate path for TLS/SSL protocols. The certificate file format should be .pfx which is password protected.

Note: This field will be visible only if 'Smtip Encryption Mode' is set as TLS/SSL.

Certificate Password

Enter the password for the Local Server Certificate .pfx file.

Note: This field will be visible only if 'Smtip Encryption Mode' is set as TLS/SSL.

The image shows a configuration window titled "Local Smtip Server Details". It contains the following fields:

- Local Smtip Ip Address ***: A text input field containing "127.0.0.1".
- Local Smtip Port ***: A text input field containing "25".
- Smtip Encryption Mode ***: A dropdown menu with "Tls" selected.
- Certificate Path**: An empty text input field.
- Certificate Password**: A text input field containing "~ Encrypted ~".

Expand - Remote Smtip Server Details Field.

Remote Smtip Server Address

Specify the IP Address of the Actual SMTP Server that will send the emails.

Remote Smtip Port

Specify the Actual SMTP Port Number that the Smart Connector will connect to.

Remote Smtip Server User

Specify the SMTP Server Username if used.

Remote Smtip Server Password

Specify the SMTP Server Password if used.

Encryption Method

Specify which protocol to be used when connecting to the SMTP Server.

Remote Smtip Server Details

Remote Smtip Server Address *
mail.schneider-isc.uk

Remote Smtip Port *
25

Remote Smtip Server User
no-reply@schneider-isc.uk

Remote Smtip Server Password

Encryption Method *
None

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)

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:

Details

Sms Gateway Address *
192.168.0.234

Sms Gateway User Name *
admin

Sms Gateway Password *
~ Encrypted ~

Sms Only String *
(SMS-ONLY)

Email Only String *
(EMAIL-ONLY)

Local Smtplib Server Details

Local Smtplib Ip Address *
127.0.0.1

Local Smtplib Port *
25

Smtplib Encryption Mode *
Tls

Certificate Path

Certificate Password
~ Encrypted ~

Remote Smtplib Server Details

Remote Smtplib Server Address *
mail.schneider-isc.uk

Remote Smtplib Port *
25

Remote Smtplib Server User *
no-reply@schneider-isc.uk

Remote Smtplib Server Password *

Encryption Method *
None

To add the Local SMTP Server details (Smart Connector as SMTP Server) in EcoStruxure Building Operation (EBO), navigate to **Server -> Properties -> Email**.

Under Primary Email Server Settings, fill in the details –

Primary Host

Specify the **domain name** of the server where the Smart Connector is running. Note: Domain name is required in order to connect for TLS Encryption method.

Primary Encryption Method

Specify the Encryption method that is set in the Smart Connector configuration under Local SMTP Server details

Primary Port

Specify the Port number that is set in the Smart Connector configuration under Local SMTP Server details

The screenshot displays the configuration interface for the Local SMTP Server details. The interface is titled "Server 1" and includes a "System Tree" on the left and a "Server 1 x" tab on the right. The "Server 1 x" tab contains several sub-tabs: "List View", "Control Panel", "Device Discovery", "Date & Time", "Communication", and "Properties". The "Properties" sub-tab is active, showing the "Email" configuration. The "Email" sub-tab is also active, showing the "General Email Settings" and "Primary Email Server Settings" sections.

General Email Settings

- Sender email: test@example.com
- Maximum queue size: 30
- Response timeout (s): 30
- Maximum retry count: 5
- Retry time (min): 1
















Primary Email Server Settings

- Primary host: full.domain.name
- Primary user name: [Empty]
- Primary password: [Masked]
- Confirm password: [Masked]
- Primary encryption method: SSL
- Primary port: 465

5 Revision History

Version	Assembly File Details	Date
1.1.0.1735	ISC.SmtpSmsProcessor.dll	06 th June 2024

Assembly files required:

-  BitFactory.Logging.dll
-  BouncyCastle.Crypto.dll
-  BouncyCastle.Cryptography.dll
-  ISC.SmtpSmsProcessor.dll
-  MailKit.dll
-  MimeKit.dll
-  NCrontab.Signed.dll
-  NLog.Targets.Syslog.dll
-  Simple.MailServer.dll
-  StarkbankEcdsa.dll
-  System Buffers.dll
-  System.Memory.dll
-  System.Numerics.Vectors.dll
-  System.Runtime.CompilerServices.Unsafe.dll
-  System.Threading.Tasks.Extensions.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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