

How to add Siemens Desigo CC import to Nimbus

Desigo CC is able to send alarm events as emails to Nimbus using the *Remote Notifications (RENO)* functionality in Desigo CC. This document describes how to setup *Desigo CC* to send emails to Nimbus and how to configure Nimbus to receive and parse them using the built-in *SMTP (Simple Mail Transfer Protocol)* server.

Prerequisites

Desigo CC license option for *Remote Notifications (RENO)*, *CCA-OP-RENO*
Nimbus Alarm Server v.3.00.07 or later with a valid license

Configuring the Email Service

The following procedures describe how to configure the management system to send and receive remote notifications by email to Nimbus.

Technical Notes

⇒ Always make sure that the email protocol are enabled (Enabled check box selected). If it is disabled (Enabled check box deselected), the system will not alert you with any specific error message.

Configuring the SMTP Protocol

⇒ System Manager is in Engineering mode.

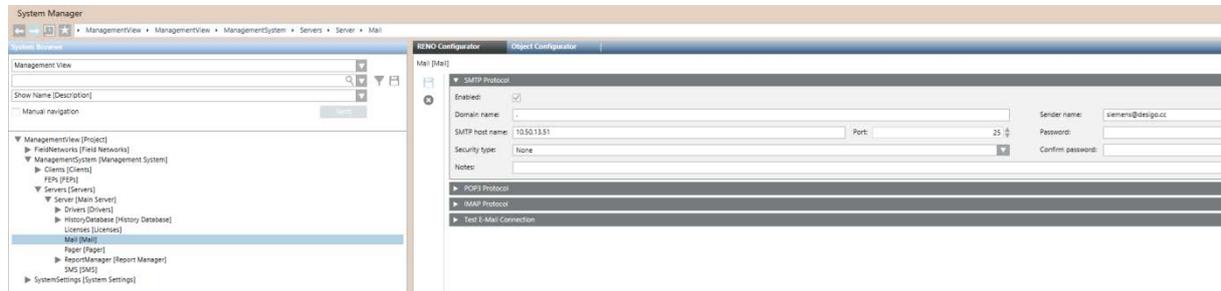
⇒ The Mail object (email service) is available in System Browser.

1. In System Browser, select Management View.
2. Select Project > Management System > Servers > Main Server > Mail.
3. Click the RENO Configurator tab.
⇒ The RENO Configurator workspace displays in the Primary pane.
4. Open the SMTP Protocol expander.
⇒ The corresponding configuration workspace displays.
5. Select Enabled. NOTE: If you don't enable this protocol (that is, if you deselect the check box), the management system will not be able to send remote notifications by email.
6. Specify the following settings:
 - Domain name: . (dot)
 - SMTP host name: The *SMTP Server Name/IP* should be the IP-address (or DNS name) to the server running *Nimbus Alarm Server*.*
 - Port: Port number may be changed. If changed from the default port 25 also parameter *SpecificPortForSMTP_DesigoCC* in *Nimbus_Server.ini* must be enabled (semicolon removed) and changed to reflect same number. Ensure the selected port number will pass through any firewalls. Port 25 is the default SMTP port and sometimes there are services running in a default Windows installation using this port number.
 - Security type: None
 - Sender name: The *Sender Name* will by default be inserted in the *Nimbus Area field [t1]* and can be used for filtering.
 - Password: n/a
 - Confirm password: n/a

8. In the RENO Configurator toolbar, click Save.

⇒ The System Manager status bar indicates that the data was successfully saved.

Example of the SMTP Protocol configuration.



Configuration the Address book

The Desigo CC address book contains a list of contacts (called recipients) which the system use for sending out remote notifications to Nimbus.

Adding a contact in the address book

1. In *System Browser*, select *Application View*.

2. Select *Applications > Address Book*.

⇒ *The address book user interface displays in the Primary pane.*

3. In the *Address Book* toolbar, click *Add recipient*.

⇒ *A new row appears in the Address Book.*

4. Select the new row.

⇒ *The contact details fields are available for editing.*

5. Enter the Full name and Short name, e.g. *Nimbus*.

6. Select your local Language different from the default (English (United States)), e.g. sv-SE.

7. To assign the contact to a group of recipients, select the group from the list and click *Add*. (Repeat this step for all the groups to which the contact belongs).

NOTE: To create a new group and assign the contact to it, enter the new group name and then click *Add*. To change the name of an existing group, select it, enter the new name and click *Update*.

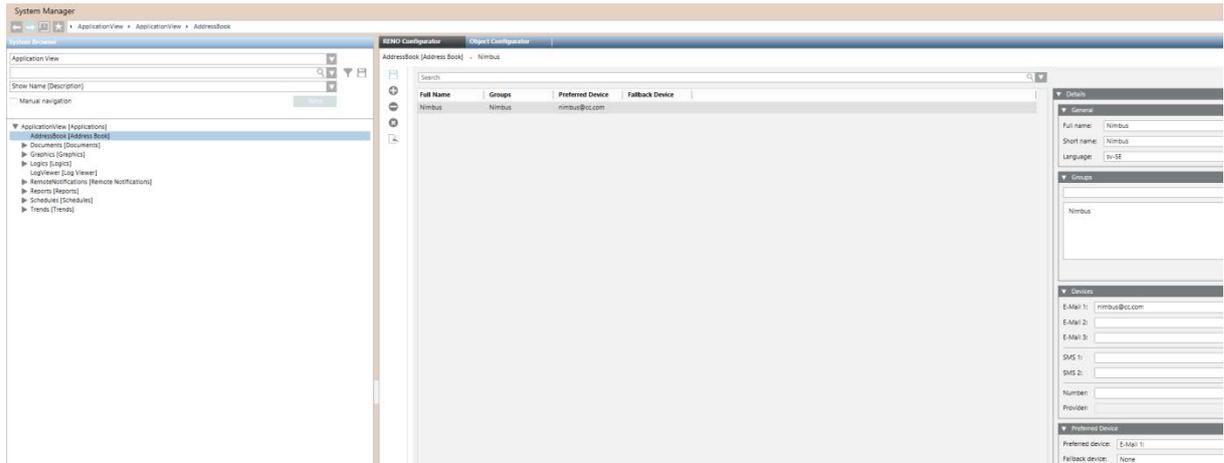
8. Enter the following information for the *E-Mail 1 device*: e.g. *nimbus@cc.com*

9. Select the Preferred device to: *E-Mail 1 device*

10. In the *Address Book* toolbar, click *Save*.

⇒ *The contact details appear in the Address Book.*

Example of the Address book.



Configuring Remote Notifications

The following procedures describe how to configure remote notifications to Nimbus.

Technical Notes

⇒ To avoid an invalid or inconsistent configuration, before setting up remote notifications, check that the scope you want to use contains the objects needed for remote notifications, namely: email service, the Address Book, and remote notifications.

⇒ If you don't activate a remote notification (Active check box deselected), you can save the remote notification, but it will be not enabled during normal operation.

⇒ If you leave the subject empty for an email message, a message box informs you that this data is missing and you cannot save.

⇒ This RENO message must be manually configured in already delivered Desigo CC installations. All SSP EU Zone North project templates have been updated with a Nimbus RENO entry effective from 1st of October 2016.

Configuring a Remote Notification for Nimbus

You can create a new remote notification only in the *Remote Notifications* folder.

⇒ System Manager is in Engineering mode.

⇒ You previously configured the required remote notification service and recipients.

1. In System Browser, select Application View.
2. Select *Applications > Remote Notifications*.
3. In the Primary pane, click the *RENO Configurator* tab.

⇒ The *RENO Configurator* interface displays.

4. Open the *General Settings* expander and specify the following parameters:

- *Active*. Selecting this check box means the remote notification is enabled (that is, it will start when it is triggered). Deselect this check box if you want to configure a remote notification but without using it yet.
- *Priority*: 0
- *Starting mode*: Auto
- *Delay*: 0

- *Multiple starting: Yes*
- *Can be stopped: No*
- *Stop on alarm ending: Yes*
- *Points state: All*

Example of the General Settings

Active:	<input checked="" type="checkbox"/>	Priority:	
Starting mode:	Auto	Delay:	
Multiple starting:	Yes	Can be stopped:	No
Stop on alarm ending:	Yes	Points state:	All

5. Open the *Recipients* expander, then open the *Address Book* section inside that expander.
6. To choose the first-level recipient group(s) for the message, do the following:
 - a. In the *Address Book* area, filter by *Groups*, and use the search field if needed to find the groups you want.
 - b. Drag-and-drop the group(s) you want to add from the *Address Book* area to the *Recipient/Members* list on the left.
 - c. Select *Groups*, and filter the address book to narrow your search.
7. For each recipient group, you can optionally define escalation rules. To define the escalation rules for a recipient group, do the following:
 - a. Select the group in the *Recipient/Members* list on the left.
 - b. In the *Escalation Rules* area on the top right, enter a *Timeout* and a *response Threshold* for that group. This sets the number or percentage of group members that need to reply within the specified time for that first-level group to be considered successfully notified.
 - c. To specify additional escalation recipients, to whom the message will be sent if the group doesn't reach its threshold:
 - In the *Address Book*, filter by *People*, and use the search field if needed to narrow down your choices.

Example of Recipient Settings

The screenshot shows the 'Recipients' section with a table:

Recipient	Members
Nimbus	1

The 'Escalation Rules' section shows:

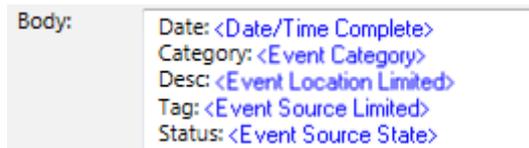
- Threshold: 0 | People
- Timeout: 30
- Escalation threshold: [dropdown]
- Escalation Recipient: [table with columns Groups, Timeout]

The 'Address Book' section shows:

- Filter: Groups
- Search: [input field]
- Table with columns Group, Members

8. To compose the notification message, open the Message Tailoring expander, and specify the following parameters:
 - *Language*: Must correspond with the default language of the project, check Desigo CC SMC.
 - *Device*: E-Mail
 - *Subject*: Alarm
 - *Body*: (must be configured in the following way)
Enter the texts of *Date*, *Category* etc. manually and drag-and-drop the tags from the *Message Tags* list.

⇒ **Important! The Body must look like the screenshot below!**

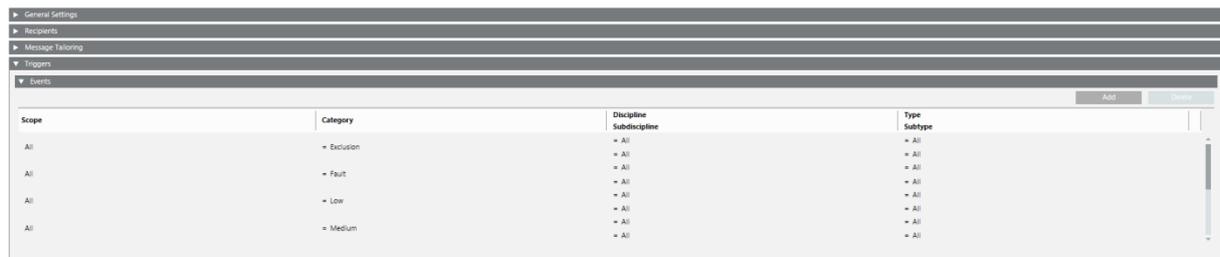


Example of Message Tailoring



9. To configure the alarms (events) that will trigger the remote notification, open the *Triggers* expander. Then open the Events expander and specify the alarms that will trigger the remote notification.

Example of Triggers settings



10. To save the remote notification, in the *RENO Configurator toolbar*, click *Save templates as*.

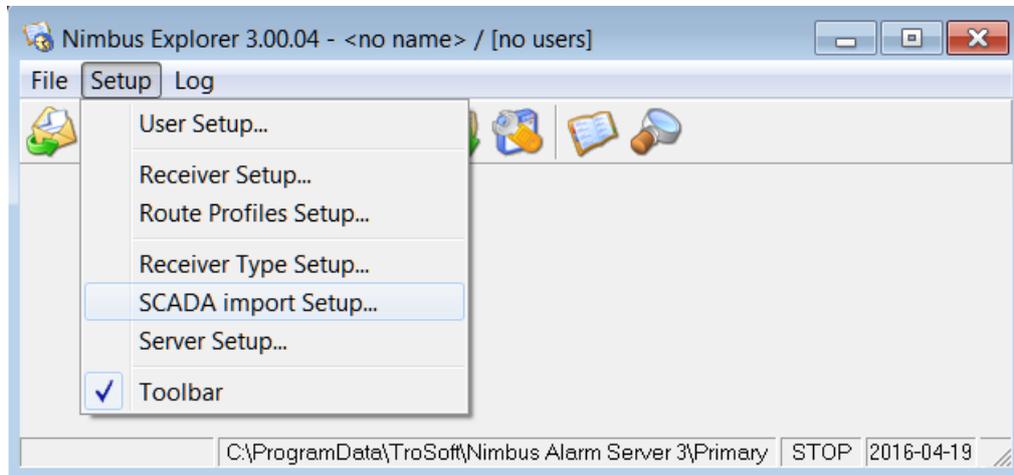
11. In the *Save Object As* dialog box, do the following

- a. Select the location in the tree (under *Applications > Remote Notifications*) where you want to save this remote notification.
- b. Type the *Name and Description* of the remote notification.
- c. Click *OK*.

⇒ *The new remote notification object appears in System Browser. If you selected the Active check box, it is also enabled (you can also enable/disable it from the Contextual pane). NOTE: An error message displays if you try to save an email remote notification message and the email subject line is missing.*

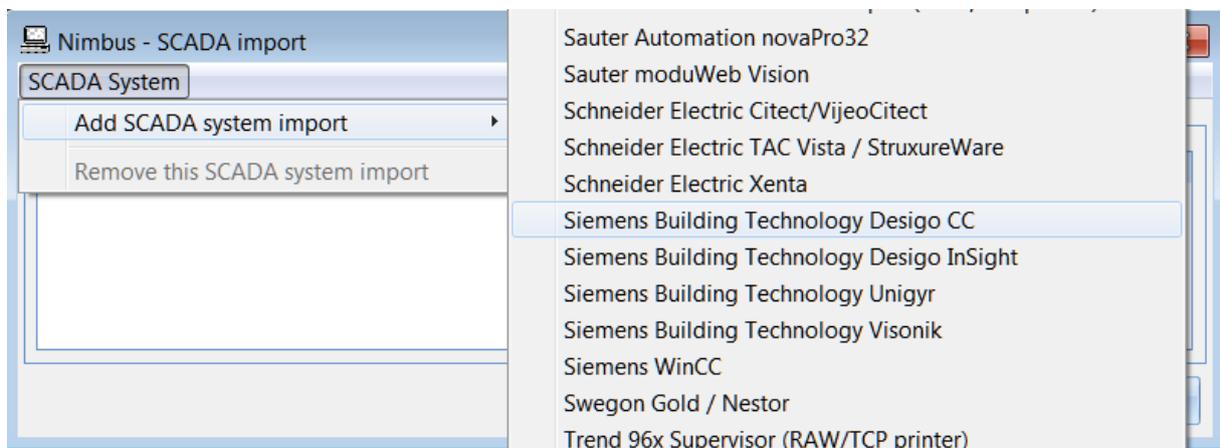
How to add a the Desigo CC import to Nimbus

Start *Nimbus Explorer* (right click and 'Run as Administrator') from the start button menu shortcut. Actually Nimbus Explorer should always be run as *Administrator* by selecting this option in the shortcut.



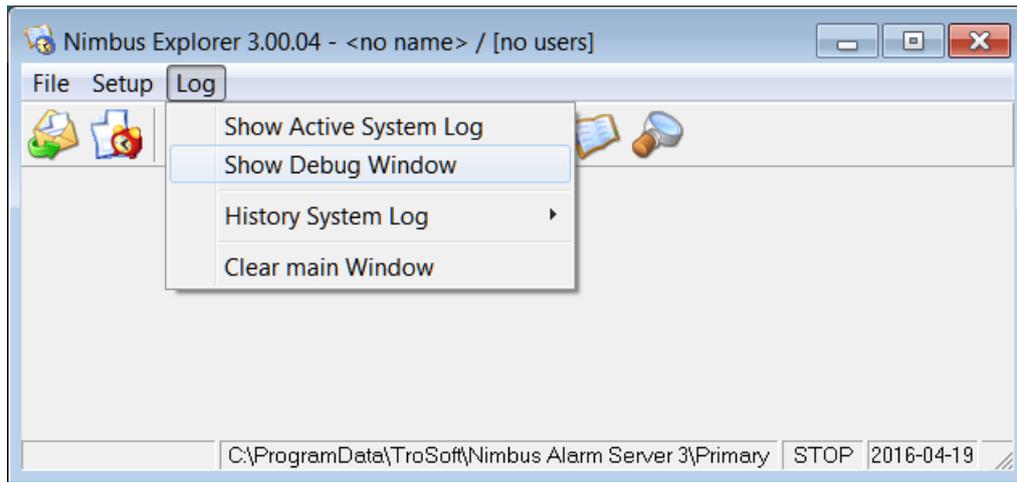
Select *Setup* -> *SCADA import*.

You will need to have Nimbus Alarm Server release 3.00.07 or later.



Select *SCADA System* -> *Add SCADA system import* -> *Siemens Building Technology Desigo CC*.

That's it. Restart *Nimbus Alarm Server* if it was already running. The Nimbus Server has a built-in SMTP server and there is no need to pass through any Exchange server etc (at least if both the Desigo CC software and Nimbus are located at the same network)

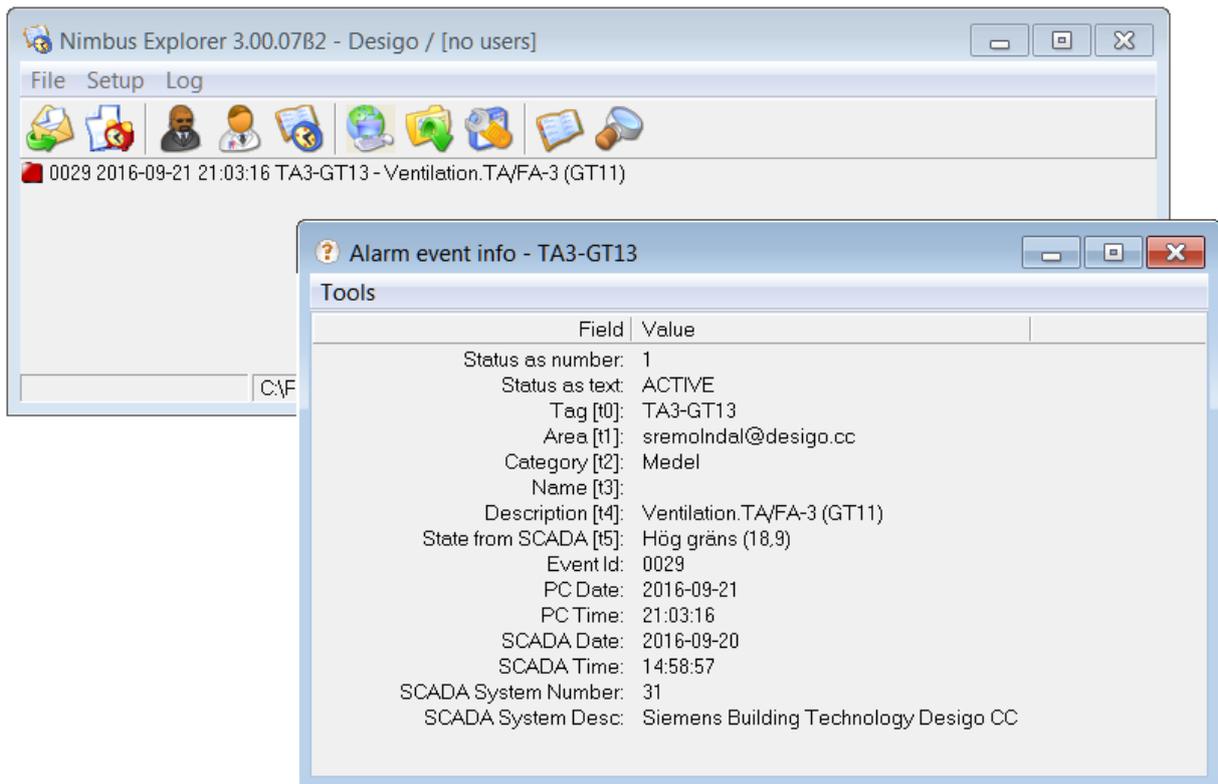


Show the debug window and try to send an alarm from Desigo CC.

	Source/De...	Time	Data
→ TX	SCADA	21:03:03	220 trossoft.se Nimbus Mail server ready (your IP is 127.0.0.1:53678)<13><10>
← RX	SCADA	21:03:03	MAIL FROM: <sremolndal@desigo.cc><13><10>
→ TX	SCADA	21:03:03	250 OK<13><10>
← RX	SCADA	21:03:03	RCPT TO: <magnusson.jens@siemens.com><13><10>
→ TX	SCADA	21:03:03	250 OK<13><10>
← RX	SCADA	21:03:04	RSET<13><10>
→ TX	SCADA	21:03:04	250 trossoft.se<13><10>
← RX	SCADA	21:03:04	RSET<13><10>
→ TX	SCADA	21:03:04	250 trossoft.se<13><10>
← RX	SCADA	21:03:04	MAIL FROM: <sremolndal@desigo.cc><13><10>
→ TX	SCADA	21:03:04	250 OK<13><10>
← RX	SCADA	21:03:04	RCPT TO: <magnusson.jens@siemens.com><13><10>
→ TX	SCADA	21:03:04	250 OK<13><10>
← RX	SCADA	21:03:04	DATA<13><10>
→ TX	SCADA	21:03:04	354 Start mail input; end with <CRLF>.<CRLF><13><10>
← RX	SCADA	21:03:04	From: sremolndal@desigo.cc<13><10>
← RX	SCADA	21:03:04	Date: tis, 20 sep 2016 13:58:58 +0100<13><10>
← RX	SCADA	21:03:04	To: magnusson.jens@siemens.com<13><10>
← RX	SCADA	21:03:04	Subject: =?UTF-8?B?TGfYbQ=?=<13><10>
← RX	SCADA	21:03:04	MIME-Version: 1.0<13><10>
← RX	SCADA	21:03:04	Content-Type: multipart/mixed;<13><10>
← RX	SCADA	21:03:04	<9> boundary="=_NextPart_000_0006_01CAB9FA.E6640E80"<13><10>
← RX	SCADA	21:03:04	<13><10>This is a multi-part message in MIME format.<13><10>
← RX	SCADA	21:03:04	<13><10>=_NextPart_000_0006_01CAB9FA.E6640E80<13><10>
← RX	SCADA	21:03:04	Content-Type: text/plain;<13><10>
← RX	SCADA	21:03:04	format=flowed;<13><10>
← RX	SCADA	21:03:04	charset="utf-8";<13><10>
← RX	SCADA	21:03:04	reply-type=original<13><10>
← RX	SCADA	21:03:04	Content-Transfer-Encoding: 7bit<13><10>
← RX	SCADA	21:03:04	<13><10>Date:2016-09-20 14:58:57<10>
← RX	SCADA	21:03:04	Category:Medel<10>
← RX	SCADA	21:03:04	Desc:Ventilation.TA/FA-3 (GT11)<10>
← RX	SCADA	21:03:04	Tag:TA3-GT13<10>
← RX	SCADA	21:03:04	Status:H<195><182>g gr<195><164>ns (18,9)<13><10>
← RX	SCADA	21:03:04	—<13><10>
← RX	SCADA	21:03:04	Meddelande-ID: -(54758766-<13><10>
← RX	SCADA	21:03:04	=_NextPart_000_0006_01CAB9FA.E6640E80-<13><10>
← RX	SCADA	21:03:04	<13><10>.<13><10>
→ TX	SCADA	21:03:04	250 OK<13><10>
← RX	SCADA	21:03:04	QUIT<13><10>
→ TX	SCADA	21:03:04	221 trossoft.se Service Closing...<13><10>

If you get some text as above then all is fine (this example could differ somewhat from your results)

The result should also show up in Nimbus Explorer like this



Double-click the event in *Nimbus Explorer* to view all properties in the alarm event.

As you notice above the profile filtering for Category is not numeric, it will be set to the *Event Category Message Tag*, ex 'Medel'

Now create *Receivers* and *Alarm Route Profiles* as usually.