

Configuring Email on the i³ Tutorial

Introduction

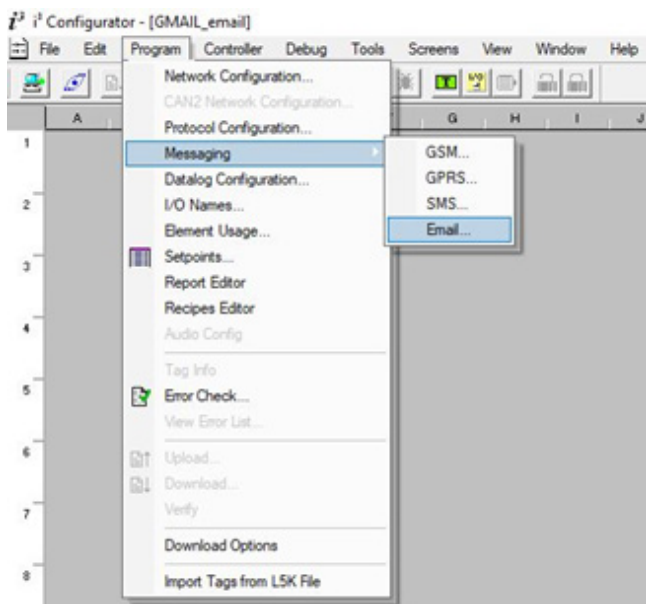
This tutorial will outline the steps needed to configure the email function in the i³.
The email feature allows sending of email messages with embedding textual real time data from the i³

Email could be used to :

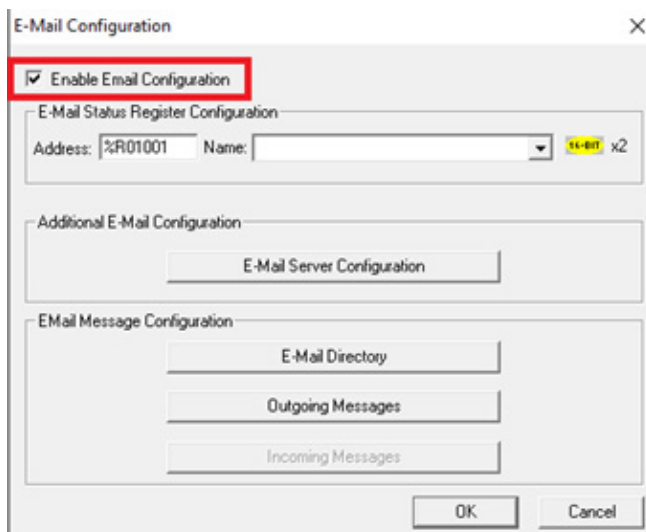
- To notify remote users to alarm conditions.
- To send run time information about machine status during previous day or shift.
- To request maintenance be performed on a machine

Configuring the i³ to send emails:

In i³ configurator select the menu item : Program -> Messaging -> Email



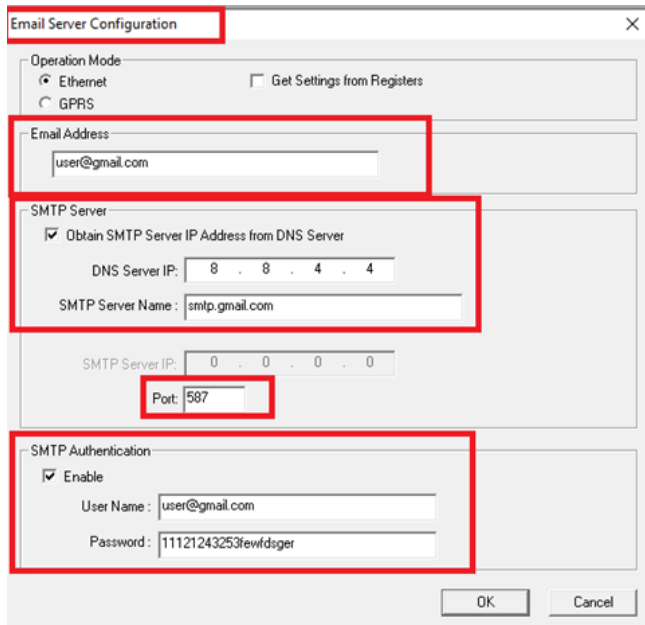
Check 'Enable Email Configuration' to enable the email functionality . The status registers will also be specified which will allow checking that email operations are running successfully.



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Configuring the Email Server

Click on “E-Mail Server Configuration” to configure Email address, Server Address and authentication. The following dialog would be opened.



The dialog box is titled "Email Server Configuration". It contains several sections: "Operation Mode" with "Ethernet" selected and "Get Settings from Registers" unchecked; "Email Address" with "user@gmail.com" entered; "SMTP Server" with "Obtain SMTP Server IP Address from DNS Server" checked, "DNS Server IP" set to "8 . 8 . 4 . 4", and "SMTP Server Name" set to "smtp.gmail.com"; "SMTP Server IP" set to "0 . 0 . 0 . 0"; "Port" set to "587"; and "SMTP Authentication" with "Enable" checked, "User Name" set to "user@gmail.com", and "Password" set to "11121243253fewfdsgar". "OK" and "Cancel" buttons are at the bottom.

SMTP Server Settings

Obtain SMTP Server IP Address from DNS Server: Check this box to obtain SMTP Server IP from DNS server.

DNS server IP: Enter the IP address of the DNS server. Configure these with the information provided by email service provider.

SMTP Server Name: Typically, the SMTP server name will be provided by the email service provider. In this tutorial, the smtp.gmail.com is used.

SMTP Server IP: Specify the SMTP Server IP address of the email service provider here, or if the 'Get Settings from Register' box is checked enter the location of a 32-bit register which will contain the SMTP server IP address.

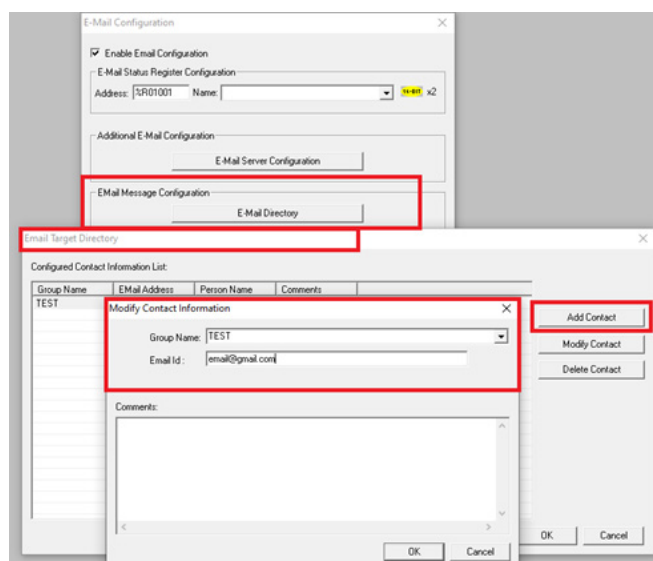
Port: Connect to smtp.gmail.com on port 465, if you're using SSL or connect on port 587 ,if you're using TLS).

Configuring the Email Directory

Before creating Send Emails, a directory of email addresses needs to be created. Click on E-Mail Directory button to configure email addresses.).

Click the "Add contact" button to add a new contact .

The email addresses may be entered directly or specified to be taken from a string in the i3 registers.

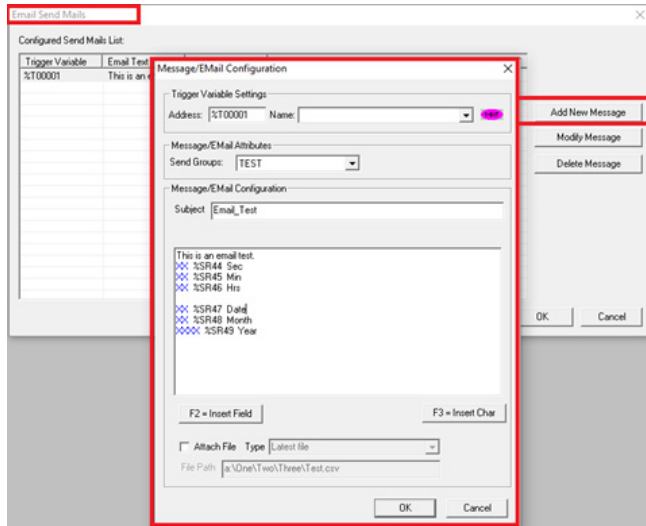


The image shows two overlapping dialog boxes. The background box is "E-Mail Configuration" with "Enable Email Configuration" checked and "E-Mail Status Register Configuration" set to "Address: SR01001 Name: x2". The foreground box is "Email Target Directory" with a table of "Configured Contact Information List" containing one entry: "TEST" with "Email Address: email@gmail.com" and "Person Name: ". It has "Add Contact", "Modify Contact", and "Delete Contact" buttons on the right, and "OK" and "Cancel" buttons at the bottom.

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Outgoing Emails Settings (SEND):

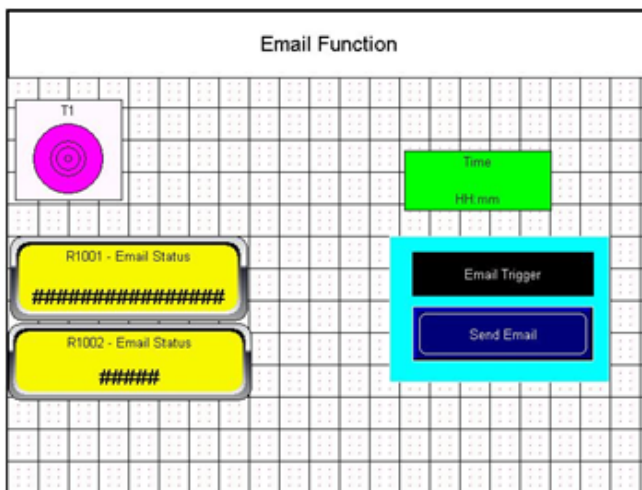
Finally, we must configure the emails which will be sent by the i3. The set of messages to be sent is configured in the table 'Email Send Mails' which is accessed by clicking 'Outgoing messages' in the main email configuration dialog box.



Creating the Screen:

For this screen we added the following :

- Two numeric display , to display the email status (R1001-R1002)
- Button object on the screen and assigned to the appropriate trigger to it (here: the %T1 is used as before configured in the 'Outgoing Messages' window).
- Bit lamp for the status of the trigger bit. (%T1).
- Time Data Properties to display the current time.(%SR044)



The i3 controller offers secure Email messaging. SMTP or TLS email with an attachment or datalog files can be sent. In the attached demo you will send an email using a Gmail account with authentication. The message will include the real RTC time of the controller.

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