

641M email notifications

1. Introduction

1.1 Overview

This document contains information regarding the configuration and use of the email notifications in the ELPRO 641M cellular router.

This guide has been written for use by technically competent personnel with a good understanding of the communications technologies used in the product, and of the requirements for their specific application.

1.2 Compatibility

This application note applies to :

Models Shown: 641M series.

Firmware Version: V1.1.7 (3b5122d) or newer

Other Compatible Models: None

1.3 Version

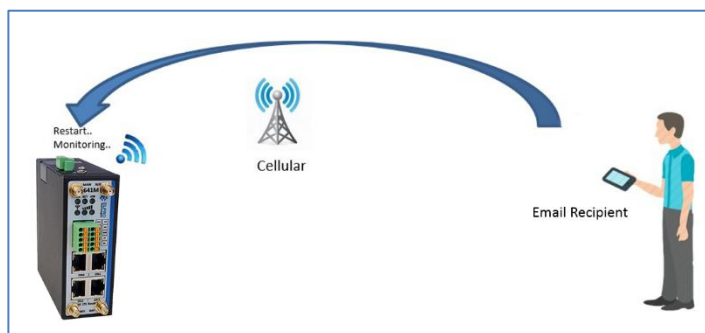
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2021/012/15	V1.0	V1.1.7 (3b5122d)	First released

1.4 Corrections

Appreciate for corrections or rectifications to this application note, and if any request for new application notes please email to: support@elpro.com.au

2. Topology



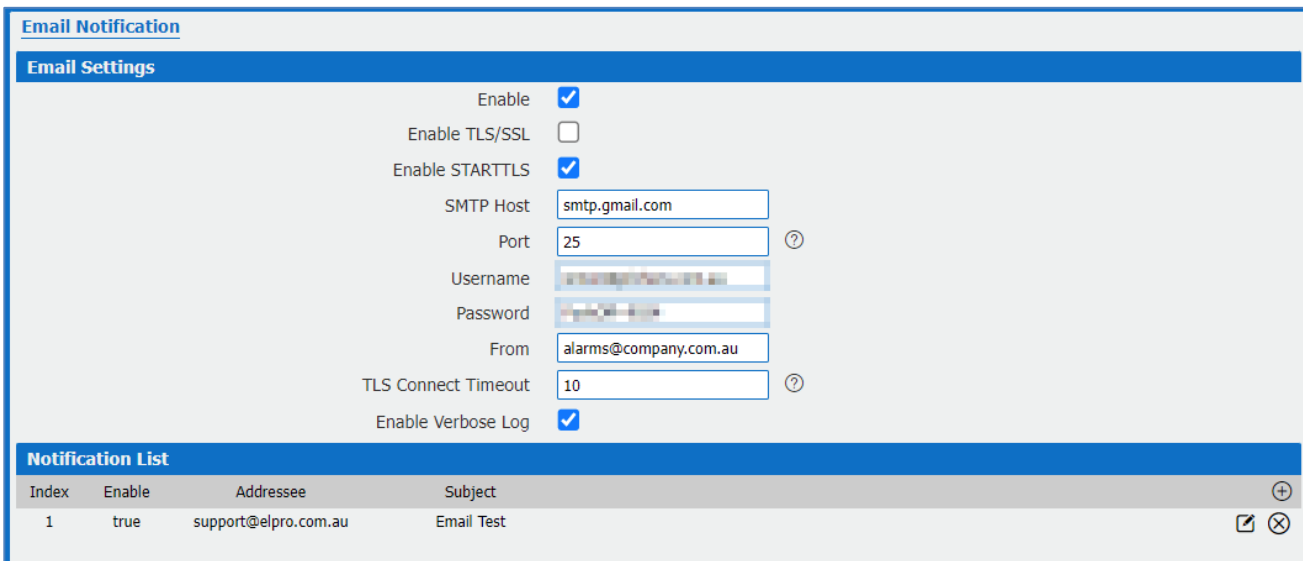
1. Requires installation of the Email notification application
2. 641M is then configured to send email notifications to an Email SMTP Server who then forwards to the recipient.

3. Configuration

3.1 Email Notification

Email Notification

Email notification application allows the 641M to be able to send email based on configured events in the device such as Startup, Reboot, Digital I/O, VPN status or Modbus Alarm.



The screenshot shows the 'Email Notification' configuration page. It is divided into two main sections: 'Email Settings' and 'Notification List'.

Email Settings

- Enable:
- Enable TLS/SSL:
- Enable STARTTLS:
- SMTP Host:
- Port: ?
- Username:
- Password:
- From:
- TLS Connect Timeout: ?
- Enable Verbose Log:

Notification List

Index	Enable	Addressee	Subject	
1	true	support@elpro.com.au	Email Test	<input checked="" type="checkbox"/> <input type="checkbox"/>

Application->Email Notification

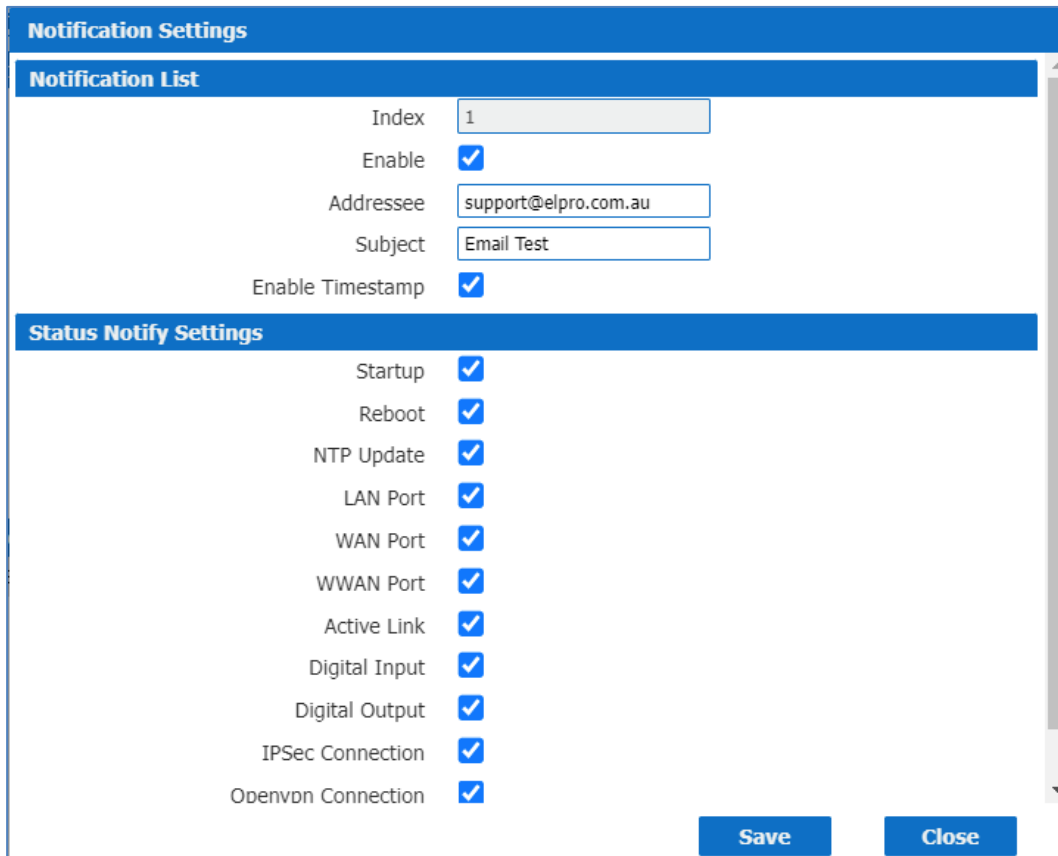
- **Enable**
Check this box to enable Email Notification feature.
- **Enable TLS/SSL**
Check this box to enable TLS/SSL.
- **Enable STARTTLS**
Check this box to enable STARTLS.
- **SMTP Host**
Mail server host address to connect to for sending email.
- **Port**
Mail server host port. Default port: 25, TLS/SSL default port: 465, STARTTLS default port: 587
- **Username**
Email exchange server login username
- **Password**

Email exchange server login password

- **From**
Sending email address. This is the email that you will see as the “Sender” on the received Email.
- **TLS Connect Timeout**
Connection timeout configuration for TLS/SSL connections.
- **Enable Verbose Log**
Checkbox to enable detailed logging in system log.

Notification Settings

- **Enable**
Check this box to enable Modbus Slave feature.
- **Addressee**
Email address to send notification to.
- **Subject**
Email message subject line.
- **Timestamp**
Check to apply timestamp to email message.



The screenshot shows a configuration window titled "Notification Settings". It is divided into two main sections: "Notification List" and "Status Notify Settings".

Notification List

Index	1
Enable	<input checked="" type="checkbox"/>
Addressee	support@elpro.com.au
Subject	Email Test
Enable Timestamp	<input checked="" type="checkbox"/>

Status Notify Settings

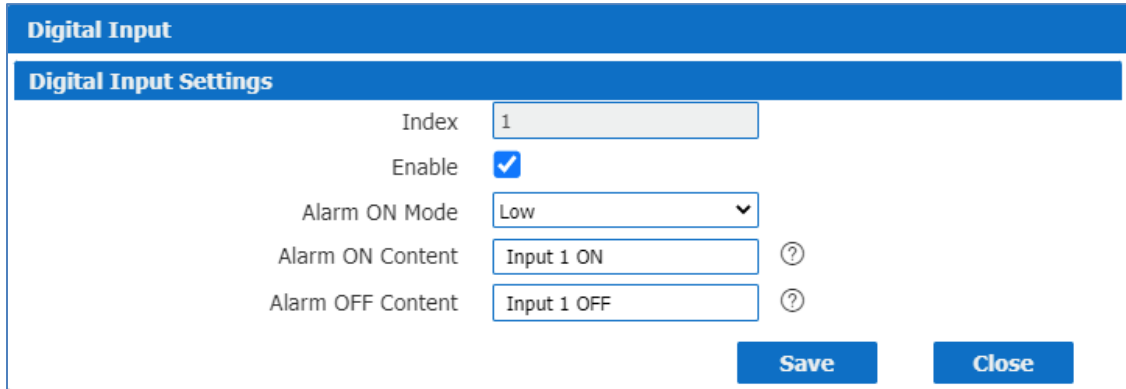
Startup	<input checked="" type="checkbox"/>
Reboot	<input checked="" type="checkbox"/>
NTP Update	<input checked="" type="checkbox"/>
LAN Port	<input checked="" type="checkbox"/>
WAN Port	<input checked="" type="checkbox"/>
WWAN Port	<input checked="" type="checkbox"/>
Active Link	<input checked="" type="checkbox"/>
Digital Input	<input checked="" type="checkbox"/>
Digital Output	<input checked="" type="checkbox"/>
IPSec Connection	<input checked="" type="checkbox"/>
Openvpn Connection	<input checked="" type="checkbox"/>

At the bottom right of the window, there are two buttons: "Save" and "Close".

Status Notify Settings

Enable any of the Alarms/Status points that you wish to receive via email notification.

Note: If using Digital Inputs, you will need to Enable these on the “Industrial Interface/digital IO page.



4. Testing

1. Generate an alarm that is configured to trigger an email notification, i.e. can be a physical I/O change or maybe a modem reboot or a LAN/WAN connection, what ever has been configured in the Notification List (see above)
2. You can check the “Overview/Syslog” screen to see the alarm or status has been triggered and sent.

```
c 16 08:43:06 elpro user.debug modem[2073]: AT+CSQ
c 16 08:43:06 elpro user.debug modem[2073]: +CSQ: 23,99
c 16 08:43:06 elpro user.debug modem[2073]: OK
c 16 08:43:13 elpro user.debug digital_io[2400]: digital input 1 alarm on
c 16 08:43:14 elpro user.debug sms_notification[2179]: 2021-12-16 08:43:13 Input 1 ON
c 16 08:43:15 elpro user.debug email_notification[30456]: subject: Email Test, addressee: support@elpro.com.au, content: 2021-12-16 08:43:13,
c 16 08:43:21 elpro user.info msmtpt: host=smtp.gmail.com tls=on auth=on user=[redacted] from=alarms@company.com.au
ipipients=support@elpro.com.au mailsize=121 smtptstatus=250 smtptmsg='250 2.0.0 OK 1639615400 u32sm4172797pfg.220 - gsmtpt' exitcode=EX
c 16 08:43:21 elpro user.info email_notification[30456]: send email successful
c 16 08:43:22 elpro user.debug modem[2073]: AT+CSQ
```

3. You should then receive an email notification showing the triggered alarm/status.

