SMS Control & Monitor

1. Introduction

1.1 Overview

This document contains information regarding the configuration and use of SMS Control, i.e., to be able to send an SMS from a mobile device to the 641M Modem to perform a function (reboot) or to turn on a physical Digital output and to receive and SMS generated from the Digital inputs.

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.

1.2Compatibility

This application note applies to ：
Models Shown: 641M series.
Firmware Version: V1.0.0 (903.0) or newer
Other Compatible Models: None

1.3Version

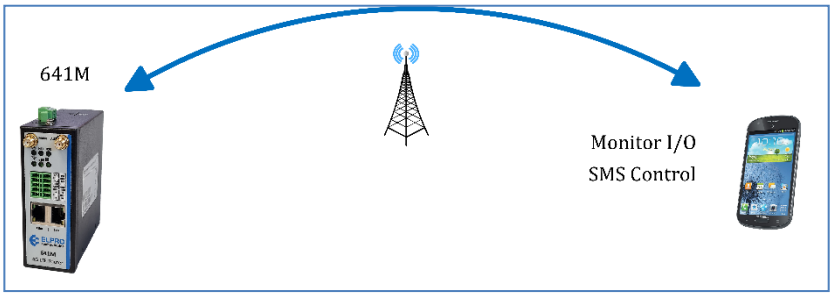
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2019/01/09	V1.0.0	devel (790f8c1)	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

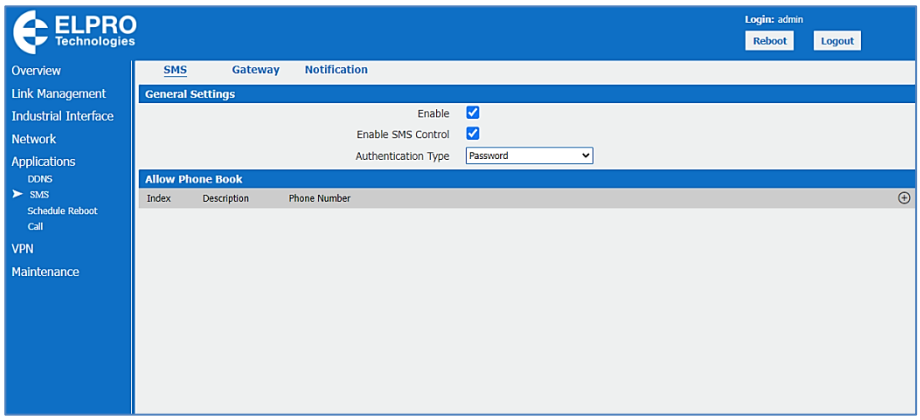


1. Send an SMS to the router to perform a command (Set an I/O or restart the 641M router).

3. Configuration

3.1 SMS Configuration

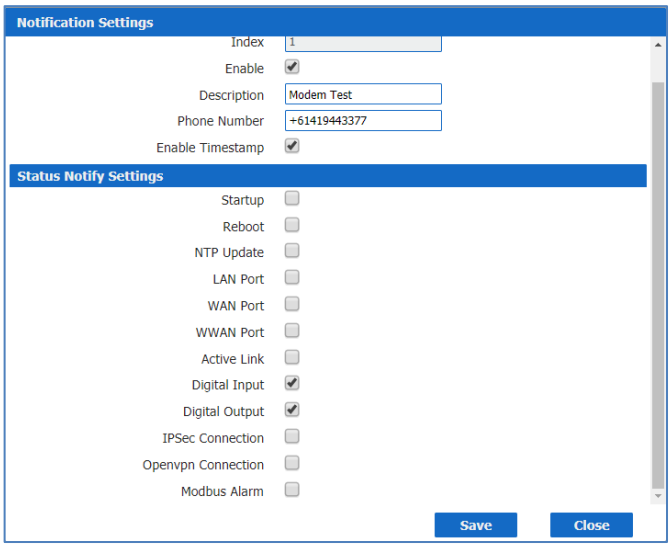
1. Go to Applications>SMS, Tick both “Enable” & “Enable SMS control” functions.



Authentication Type:
Password: SMS command with router username and password
None: SMS command without router username and password

Allow Phone Book:
Add in Mobile Phone numbers that you wish to receive SMS messages on. The 641M will only receive SMS message from phone numbers that are in the phone book.

Notifications
Add a Mobile phone that you wish to send SMS messages to and select the messages you want to send.



e.g., The above shows the Mobile phone will receive SMS messages for the Digital inputs and Outputs.

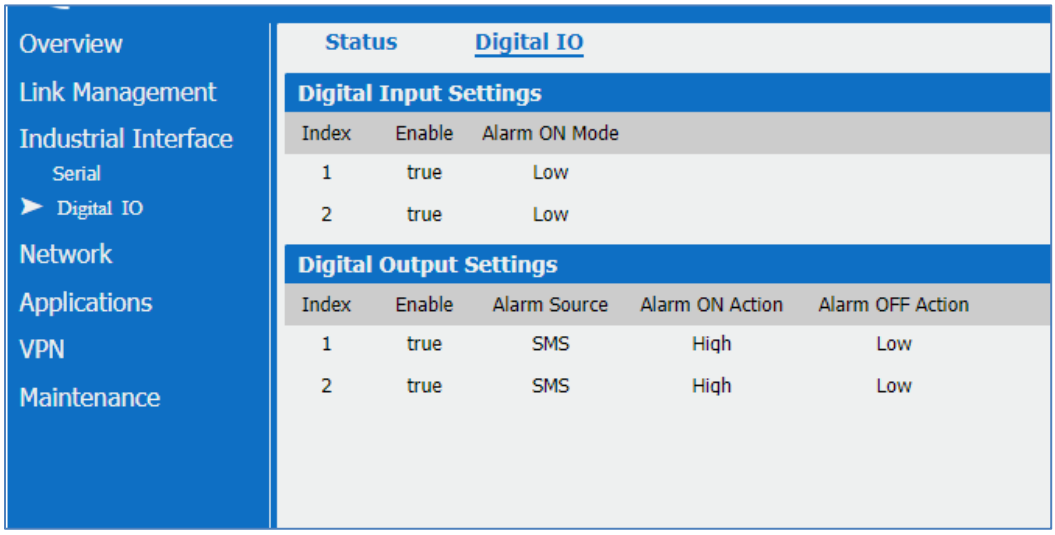
4. SMS Command

Send a Digital Input via SMS.

Once the SMS Notifications have been entered, we then have to enable the Digital inputs.

Go to the “Digital IO” menu under “Industrial Interface“

Here we need to Enable the Inputs & Outputs that you want to use and to configure some parameters.

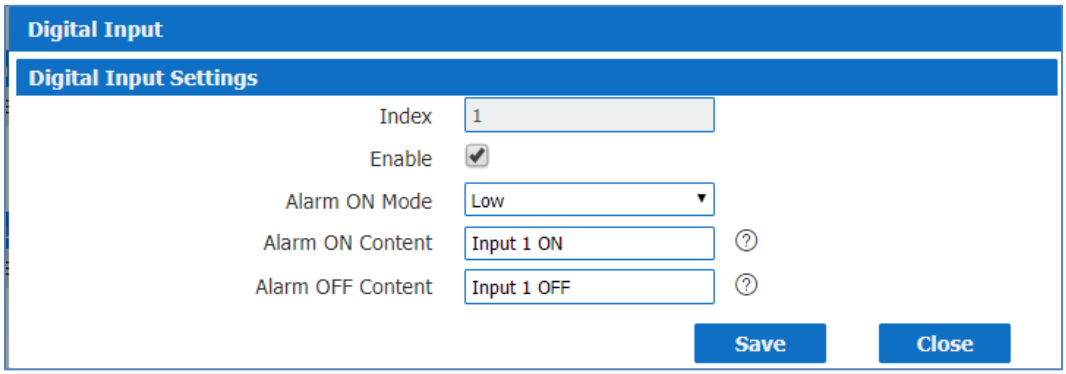


Digital Inputs

Enable the input and select the appropriate Mode for an Active Alarm.

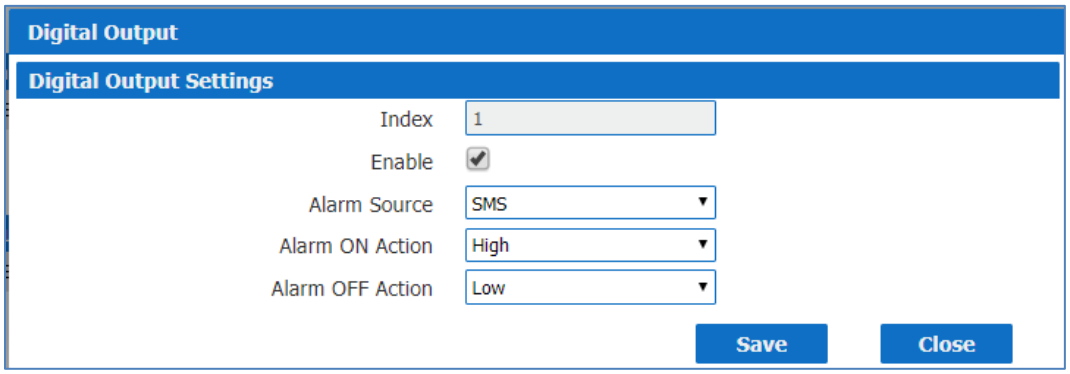
Elpro general inputs are turned ON by connecting the Input to “Low” or a GND.

Then add what text you want to display for the Alarm ON & OFF state.

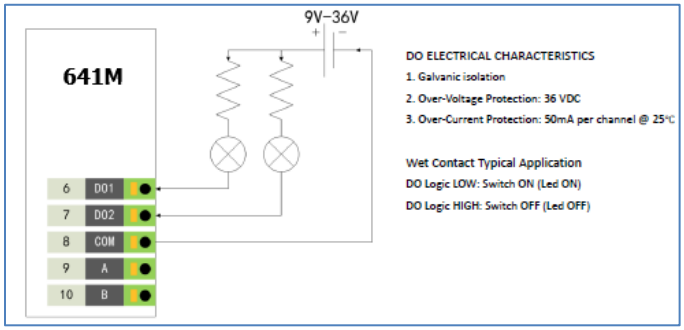


Digital Outputs

Enable the output and select the alarm source to be SMS, i.e., to be able to receive an SMS message and activate the output.



Then select the Alarm ON and OFF Action. Setting the Alarm ON action to "High" and OFF to "Low" will allow the digital output transistor to be wired to the negative of a relay coil.



To activate the output, you will need to SMS a command to turn the output ON and OFF.

Output Command Format: username$password$doctl (control command)$DO_index ON/OFF
e.g. Digital Output #1 = "admin$admin$doctl$DO 1 ON" or "admin$admin$doctl$DO 1 OFF"
Digital Output #2 = "admin$admin$doctl$DO 2 ON" or "admin$admin$doctl$DO 2 OFF"

If the "Authentication Type" was set to None (back at the start of this document) you would use the following commands.
Digital Output #1 = "doctl$DO 1 ON" or "doctl$DO 1 OFF"
Digital Output #2 = "doctl$DO 2 ON" or "doctl$DO 2 OFF"