TMAS PC Manager
Version 5.07 Standard Edition
User Manual

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Contents

1.0 Introduction

With the emerging and increasingly importance of wireless technology for the M2M market segment, TMAS^{TM} wireless telemetry system is designed to allow service providers or users to remotely monitor and control key business functions, processes and equipments via GSM network. The end result is to achieve greater manageability, reduce operation cost, asset protection and increase in service quality and response time, to the adopters of such powerful M2M technology, anywhere at any time.

Typical Applications are as follow:

- Fire and Security
- Facility Management
- Data Centre Monitoring
- Environmental Monitoring
- Tele-communication and Utilities
- Vending & many more M2M applications

Typical Scenarios are as follow:

- Mission Critical
- Scattered deployment
- Countrywide or large scale
- Unmanned
- Deserted
- No fixed telephone line
- Different combination of monitoring and control needs in a single integrated backend platform.

2.0 About TMAS PC Manager Version 5.07

TMAS PC Manager serves as a configuration tool for all TMAS^{TM} telemetry products as well as a wireless central monitoring system (CMS) platform for the telemetry system. As a CMS, TMAS PC Manager is able to perform the following:

- Manage all incoming alert from telemetry system.
- Control telemetry system wirelessly.
- Configure telemetry system wired and wirelessly.
- Device health checking for telemetry system.

3.0 TMAS Telemetry System Overview

The complete TMAS^{TM} wireless telemetry system comprises of the front-end TMAS^{TM} telemetry device as well as the backend wireless central monitoring station (CMS) platform.

The TMAS^{TM} adopters can fully take advantage of the beauty of such system to either deploy it at many standalone remote sites or having the remote deployed TMAS^{TM} telemetry devices being managed by a wireless central monitoring station on a countrywide basis.

3.1 Standalone Operation

Under standalone operation, TMAS telemetry device can be operated by itself to do remote GSM monitoring and control functions. This case usually applies to smaller scale projects and it does not required a wireless CMS for central management and report generation.

Once the TMAS telemetry device is being programmed via TMAS PC Manager successfully, it can be immediately deployed at remote sites to monitor and control the desired equipments.

Any input triggering via dry contact will results in TMAS Telemetry device sending out default or user pre-defined message (UDM) to a maximum of 16 authorized mobile users' hand phones. The authorized users also able to use their mobile phones to do remote control of equipments via SMS control commands.

Standalone Operation

3.2 Wireless Central Monitoring System (CMS) (also known as Data Center)

Under the wireless central monitoring station operation, many TMAS^{TM} telemetry devices can be deployed at remote sites and linked to the CMS for a centralized operation and management. This usually applies to a larger scale or higher mission critical project on a countrywide basis

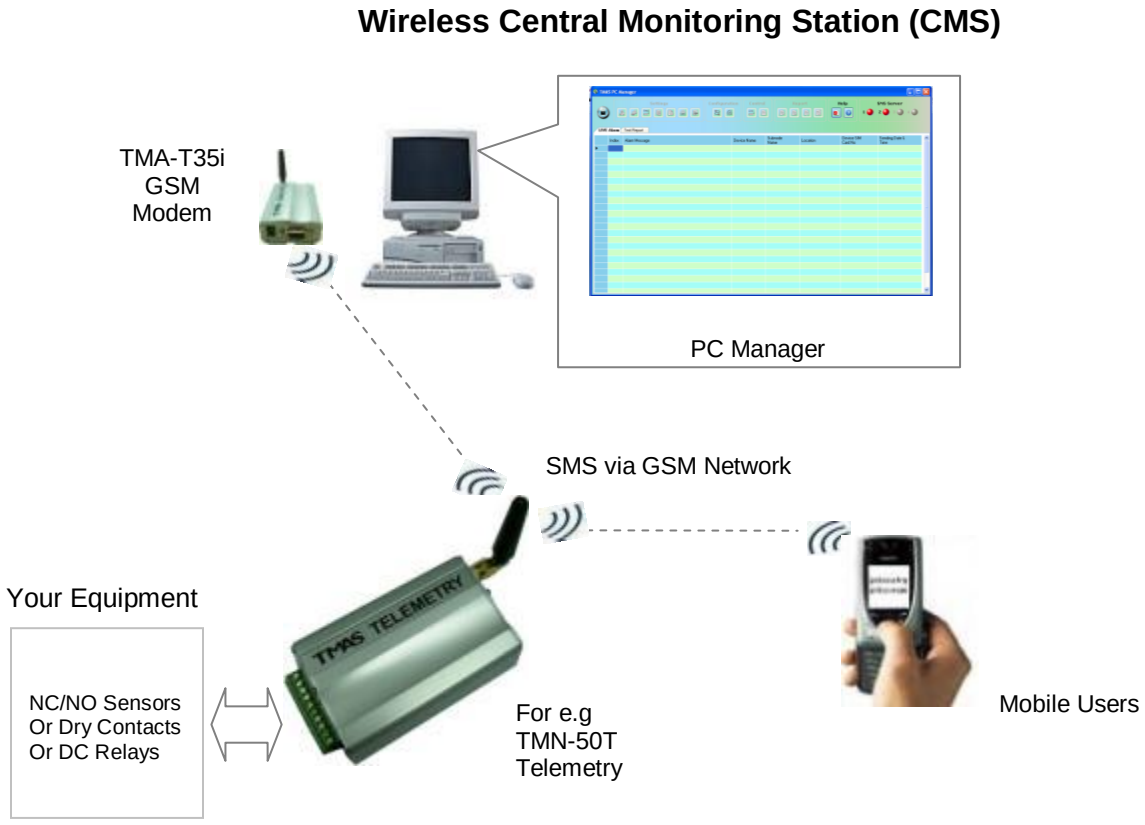
where service providers will find out that our unique CMS solution addressing to their more complex and demanding operation needs.

Similarly, once the TMAS telemetry device is being programmed via TMAS PC Manager successfully, it can be immediately deployed at remote sites to monitor and control the desired equipments.

Any input triggered via dry contact will results in the TMAS Telemetry device sending out default or user pre-defined message (UDM) to a maximum of 16 authorized mobile users' hand phones and the CMS (also known as data center). The authorized users can use their mobile phone to do remote control of equipments via SMS control commands.

Additionally, service providers can take advantage of such powerful and integrated backend CMS platform to perform the following task:

- Remote Monitoring
- Remote Control
- Remote Access Control
- Remote Configuration
- Remote Health Check
- Report Generation
- User Profile Management
- Device Profile Management



4.0 System Requirement/ PC Manager Installation

4.1 Technical Specification

Before installation of TMAS PC Manager, make sure the computer meets the following minimum requirements:

- Minimum Pentium 4 – 1GHz or higher performance processor
- Memory – 1GB is recommended
- Hard-Disk – With 100MB free space or more
- CD ROM Drive
- Operating System – For Windows XP Professional/Home Edition (at least SP2)
  – For Windows 2000 (at least SP3)
- Microsoft Excel 2003 and above

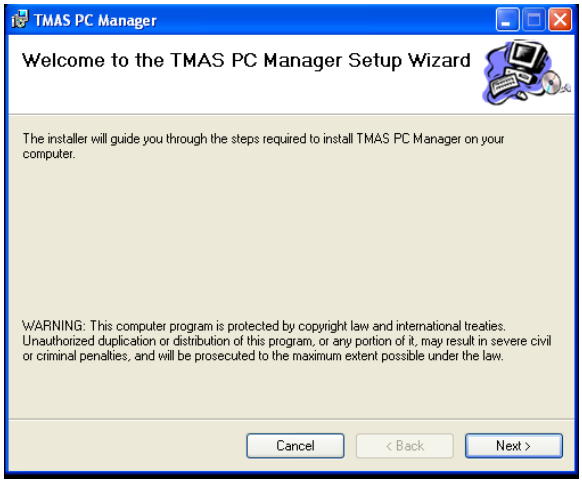
4.2 Installation Process

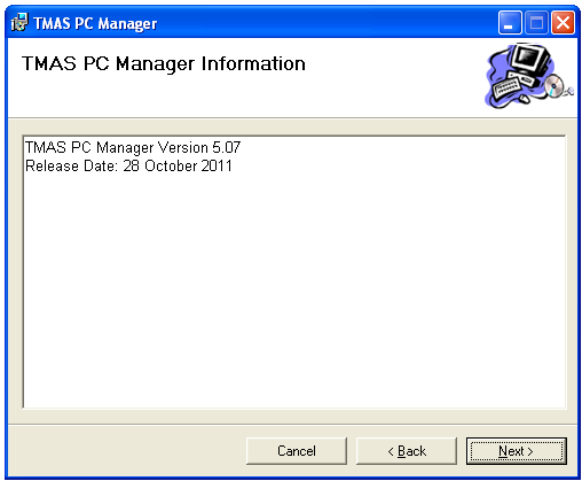
Described as follow is the installation process:
Step 1:

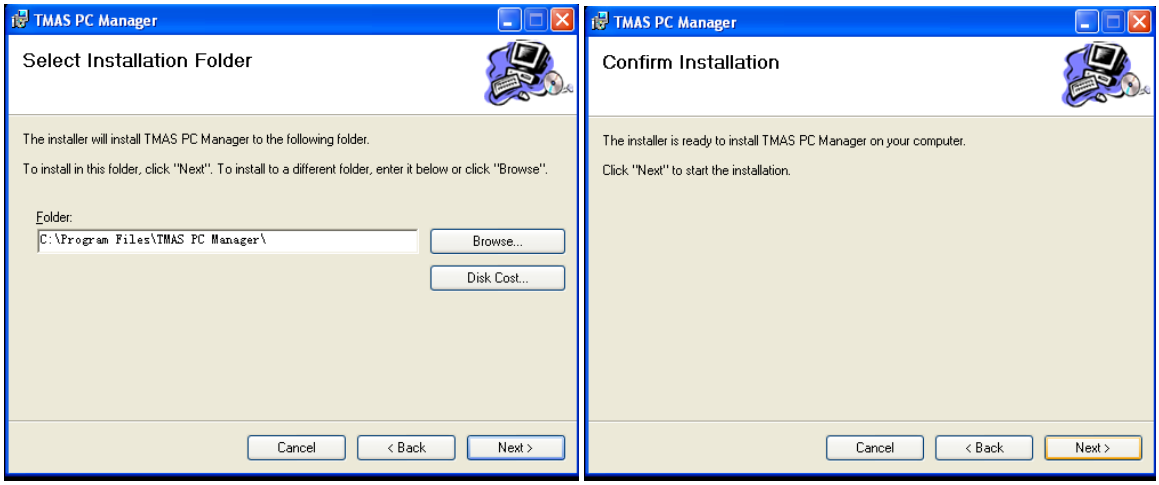
- Insert the TMAS PC Manager CD into the CD-ROM. It will auto-run and begin the installation. In case the CD-ROM driver had auto-run disabled, explore the CD content and double click on setup.EXE

Step 2:

- On the first few installation pages as shown below, click Next to proceed

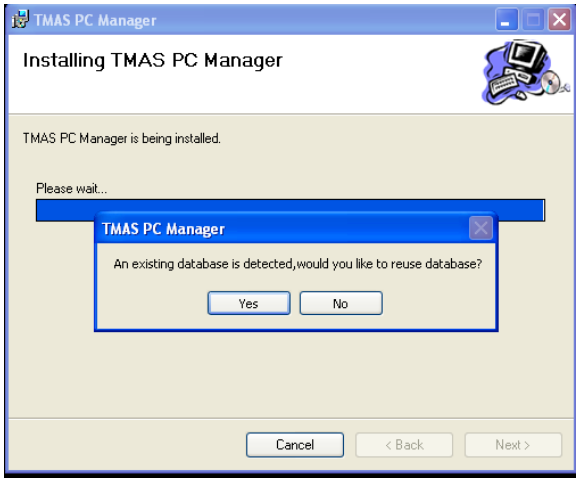






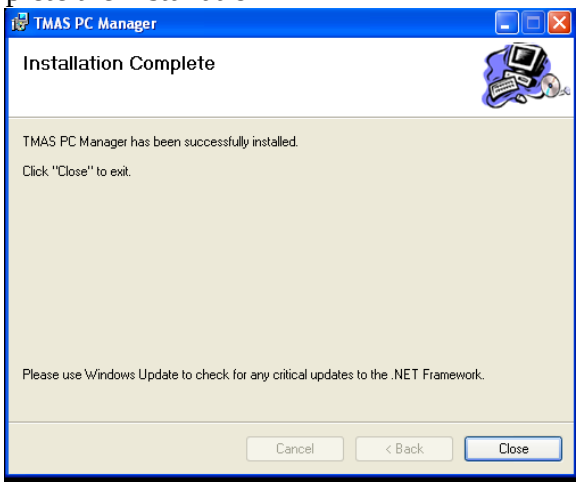
Step 3:

- If installer detects an existing TMAS PC Manager database in the default folder, it will prompt user if they would like to reuse database. If "Yes" is selected, the old database remains. If "No" is selected, the old database is being backup and shifted.
  *TMAS PC Manager version 5.07 is compatible with database from PC Manager version 4.07 onwards



Step 4:

- Click Close to complete the installation



On successful installation, a shortcut will be created on desktop and Program Menu

TMAS PC Manager on Program Menu

TMAS PC Manager Shortcut on Desktop

5.0 TMAS PC Manager Window Layout

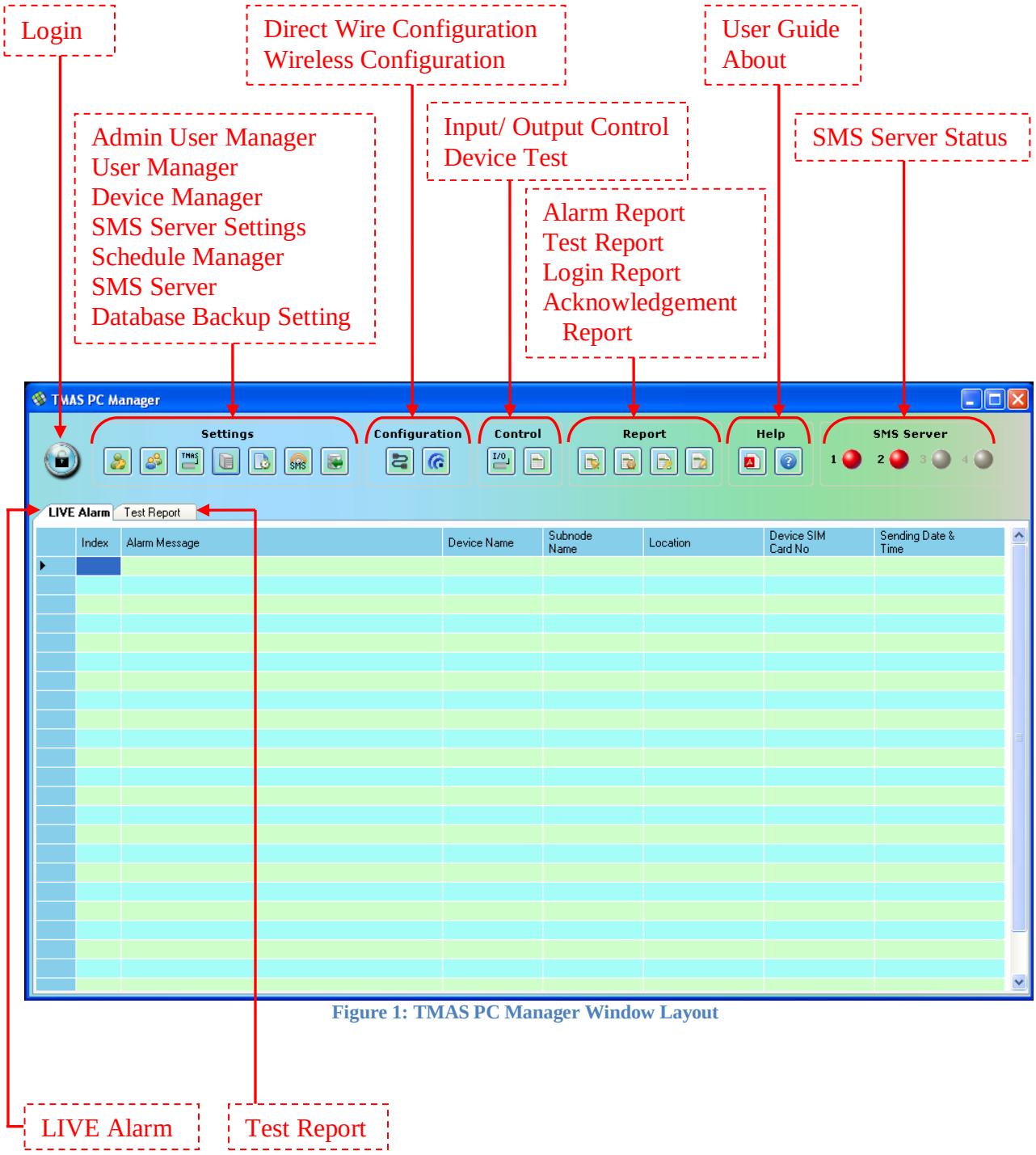


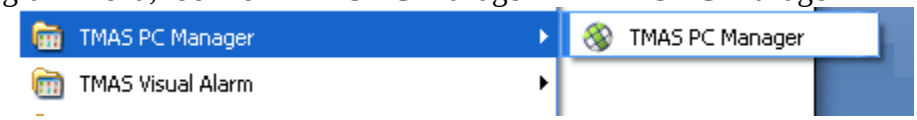
Figure 1: TMAS PC Manager Window Layout

6.0 Setting up TMAS PC Manager

6.1 Running TMAS PC Manager

To run TMAS PC Manager, perform either of the following action:

- On Program Menu, look for TMAS PC Manager → TMAS PC Manager



- On Desktop, look for TMAS PC Manager shortcut icon

TMAS PC Manager main page will be displayed as shown below:

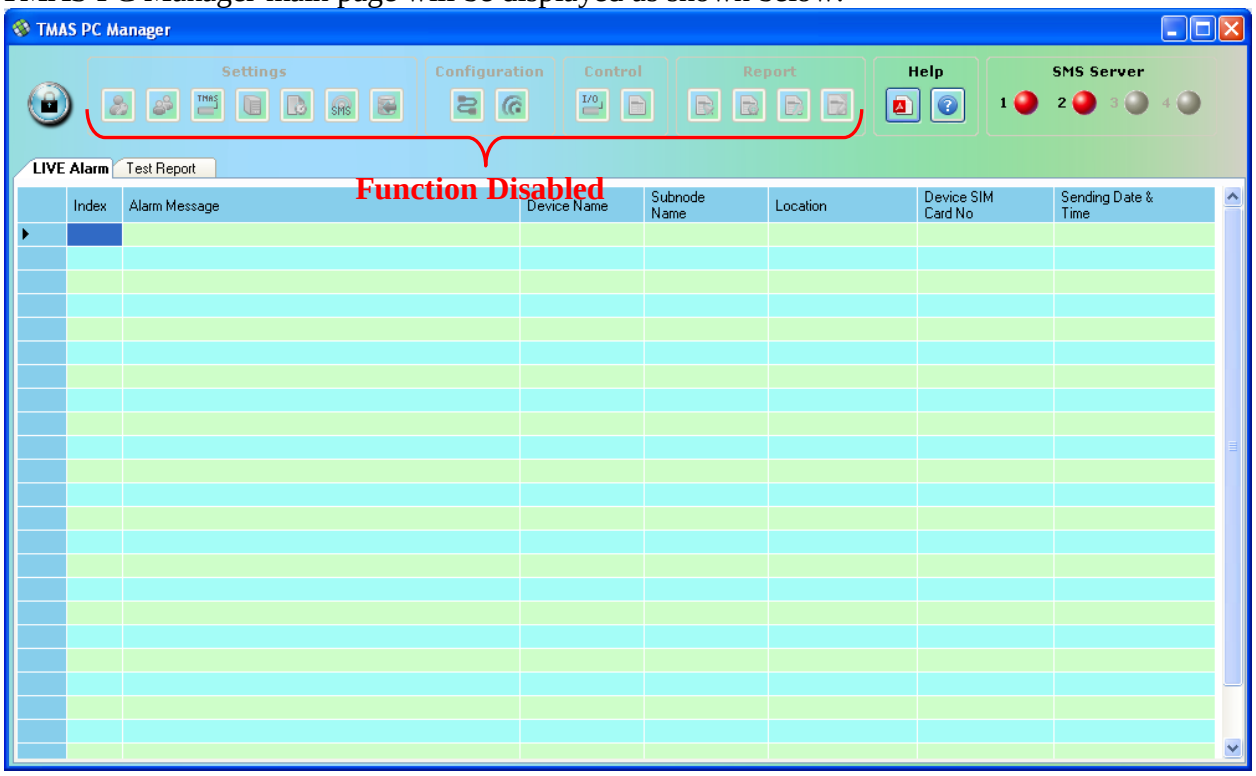


Figure 2: TMAS PC Manager Main Page

Notice that the Settings, Configuration, Control and Report functions are all disabled as shown in Figure 2. These functions can be enabled upon login.

6.2 User Login

When executed, TMAS PC Manager will run with all main functions disabled to prevent unauthorized personnel from altering the data in the system. TMAS PC Manager provides 2 types of user login with different accessibility to the functions.

Admin

- Allow full access to all TMAS PC Manager functions

Project Officer

- Have access to Control and Report functions only

TMAS PC Manager will logout any users after 30 minutes to prevent unauthorized access to the system in case the user forgot to logout.

6.2.1 Login Page

To login, click on the Login button as shown in Figure 3 below.

Figure 3: Login Button

The Login page shall appear as shown below:

Figure 4: Login Page

The default user name and password is ‘Admin’ and ‘Admin’ respectively. Click OK to login.

Admin Login: All functions enabled

Project Officer: Only Control and Report function enabled

6.2.2 Logout

To logout, click on the Logout button as shown in Figure 5.

Figure 5: Logout Button

6.3 SMS Server Settings

SMS Server is an application running in TMAS PC Manager that handle all incoming SMS from the GSM modem attached to the PC.

The first step in configuring the TMAS PC Manager is to setup the SMS Server. Click on the SMS Server Settings icon to begin.

Figure 6: SMS Server Settings

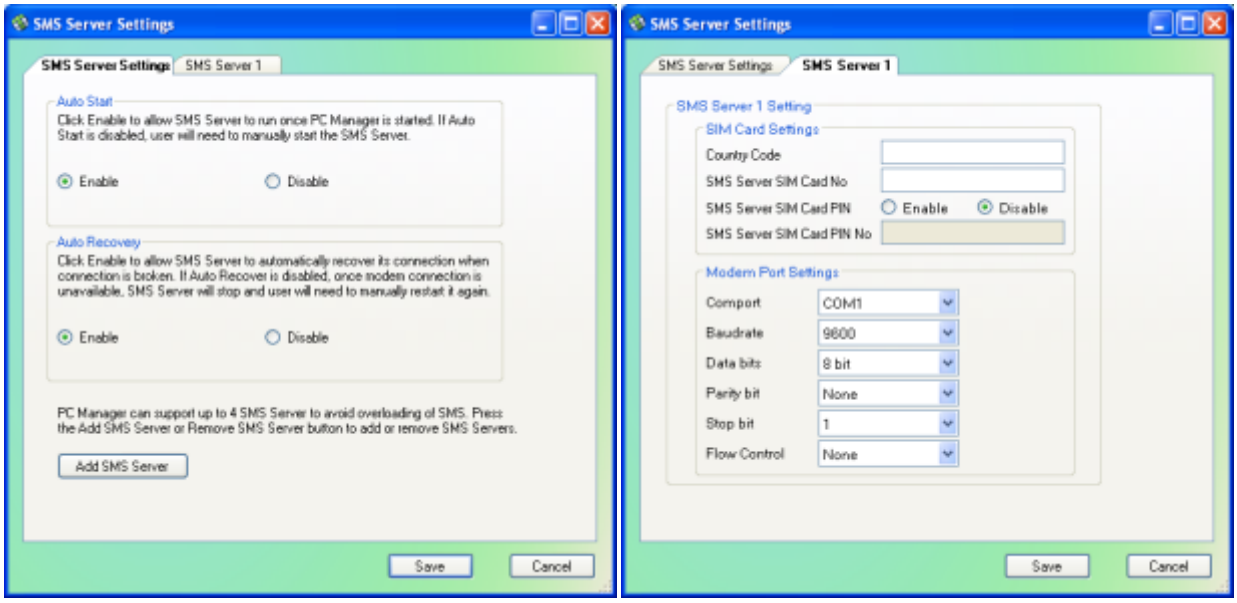


Figure 7: SMS Server Settings Window

On SMS Server Settings tab, Admin user can enable or disable the following function:

- Auto Start: If enabled, SMS Server will start running when TMAS PC Manager is executed
- Auto Recovery: If enabled, TMAS PC Manager will resume the connection in case of power failure or GSM network lost

By default, SMS Server 1 is always available. To add additional SMS Server, click on the Add SMS Server button on the SMS Server Settings tab. Admin user can add up to 4 SMS Server.

Make sure to enter the Country Code, SMS Server SIM Card No and the port settings before proceeding to other settings. Admin user will not be able to save the device information if the selected SMS Server has an empty Country Code and SIM Card No.

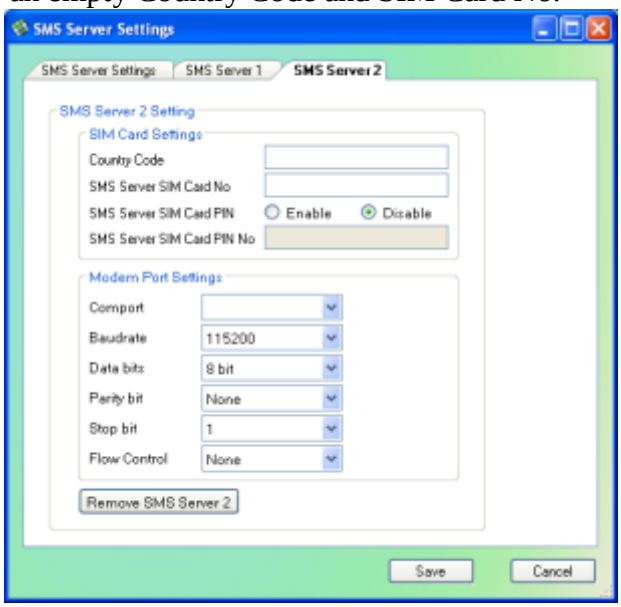


Figure 8: SMS Server

To remove an existing SMS Server 2, 3 or 4, click on the Remove SMS Server 2 or Remove SMS Server 3 or Remove SMS Server 4 button respectively.

7.0 TMAS PC Manager Functions

7.1 Adding Admin User

Admin user is account created for user to login into TMAS PC Manager. Click on the Admin User Manager as shown in Figure 9.

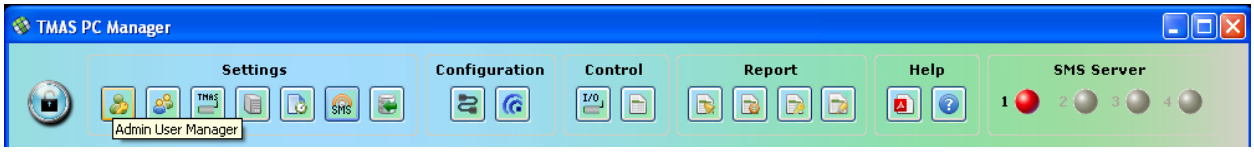


Figure 9: Admin User Manager

The Admin User Manager as shown in Figure 11 will be displayed. The Admin User Manager provides the following functions:

- Add User: Add a new login user
- Edit User: Edit existing login user
- Delete User: Delete existing login user.
- Cancel: Close Admin User Manager window

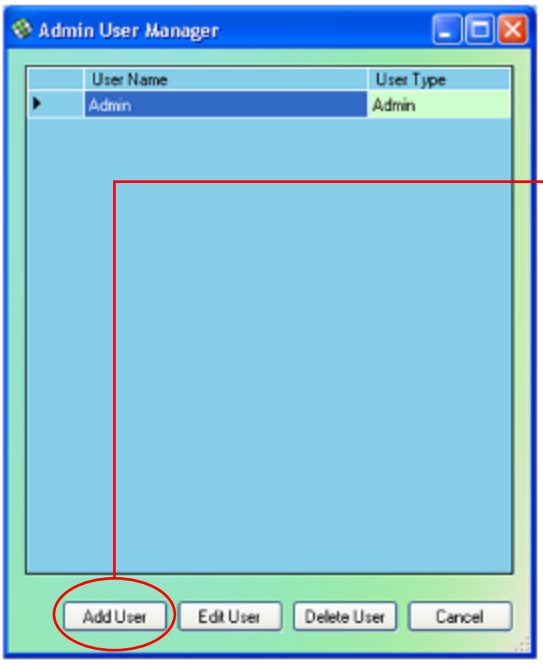


Figure 11: Admin User Manager

Figure 11: Add New User

User name entered must not be a duplicate of the existing login users. There are 2 login user types available as follow:

- Admin: granted all access of the TMAS PC Manager functionality
- Project Officer: only have access to limited functions such as (Control & Report)

7.2 Adding User

Users registered in User Manager are also called Authorized Users. Authorized users can be assigned to a TMAS device to receive SMS when the channels are triggered. Click on User Manager button as shown in Figure 12 to open up User Manager window.

Figure 12: User Manager Button

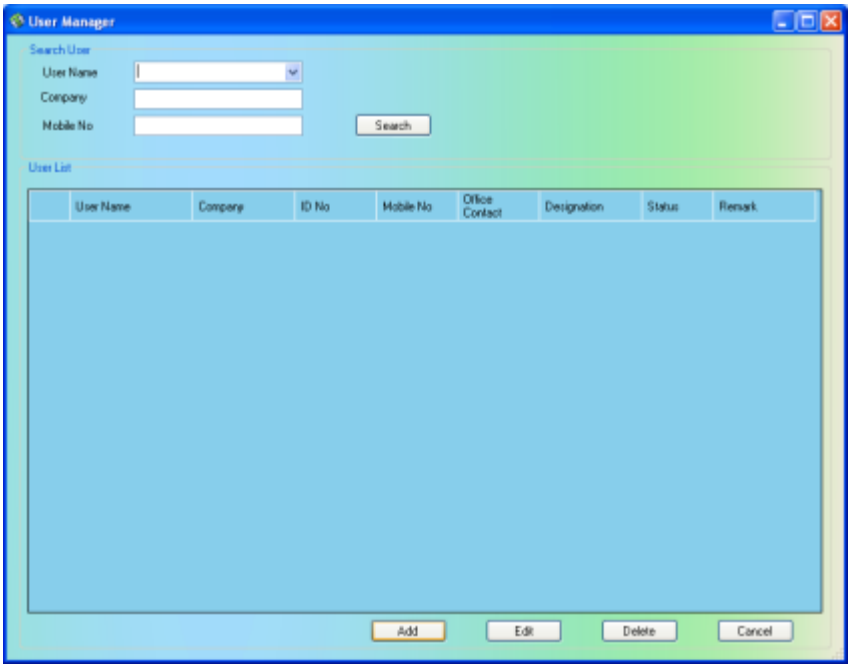


Figure 13: User Manager

The User Manager window provides the following functions:

- Search Search database for a specific user
- Add Add a new user
- Edit Edit existing user
- Delete Delete existing user
- Cancel Close User Manager window

Clicking on Add/Edit button will bring up the Add New User or Edit User window as shown in Figure 14.

Figure 14: Add New User

Setting Status to In-Active will have the following effect:

- When assigning new user to the device, user marked as In-active will not appear on the selection list
- If user already been assigned to a device, the user will be disabled from receiving SMS (Enable set to No)

7.3 Device Manager

Click on the Device Manager button as shown in Figure 15.

Figure 15: Device Manager Button

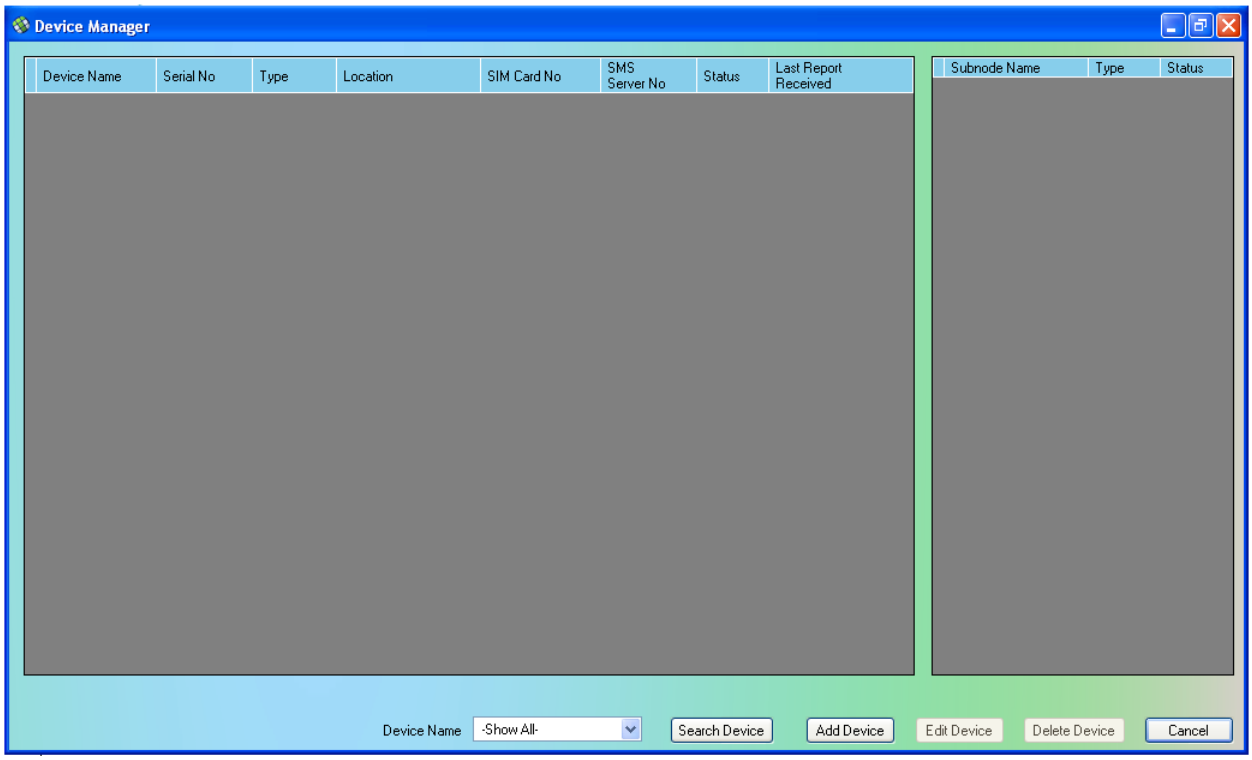


Figure 16: Device Manager

Device Manager provides the following functions:

- Search Search database for a specific device name
- Add Device Add a new device
- Edit Device Edit an existing device
- Delete Device Delete existing device
- Cancel Close Device Manager window

7.3.1 Adding a New Device

Add a new device by clicking on Add Device button on Device Manager. The Device Selection window will appear.

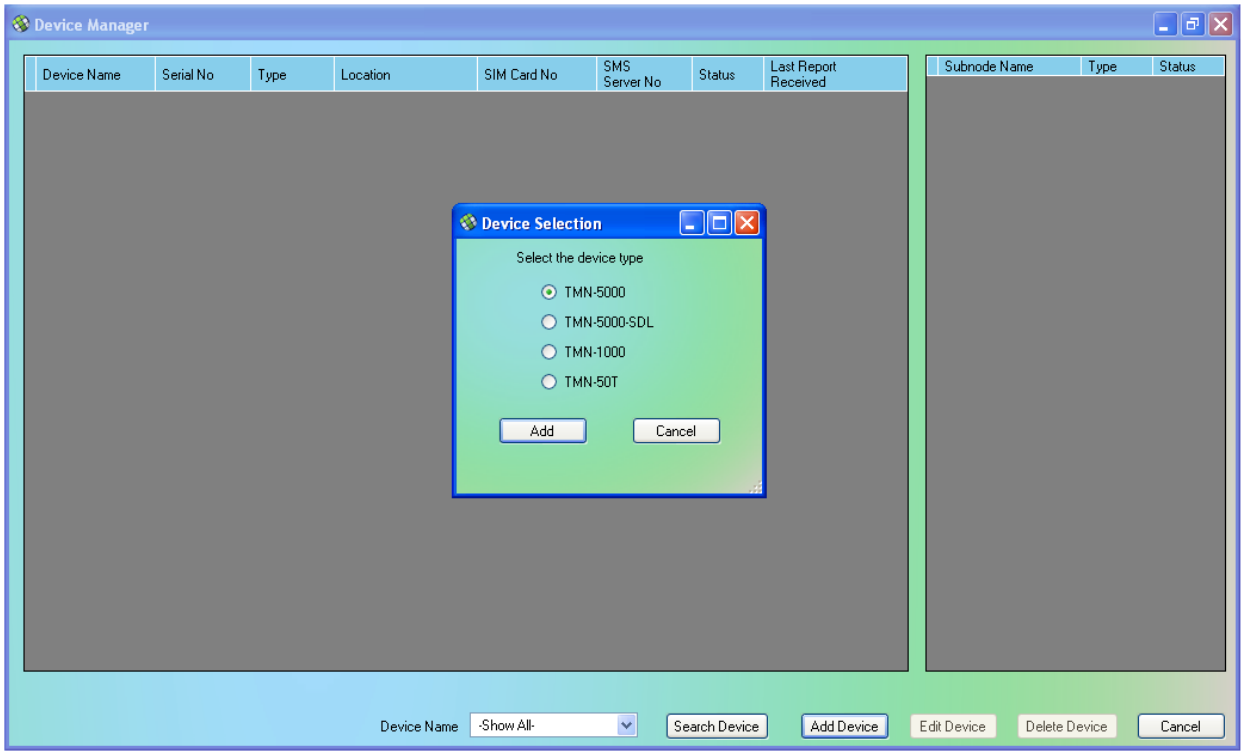


Figure 17: Device Selection

Select the device to add and click on Add button to proceed. Device Setting window will appear following the click. Device Setting window's content may vary based on the selected device.

7.3.2 Device Setting

The Device Settings window will appear as shown below. For this guide, TMN-5000-SDL is used as an example.

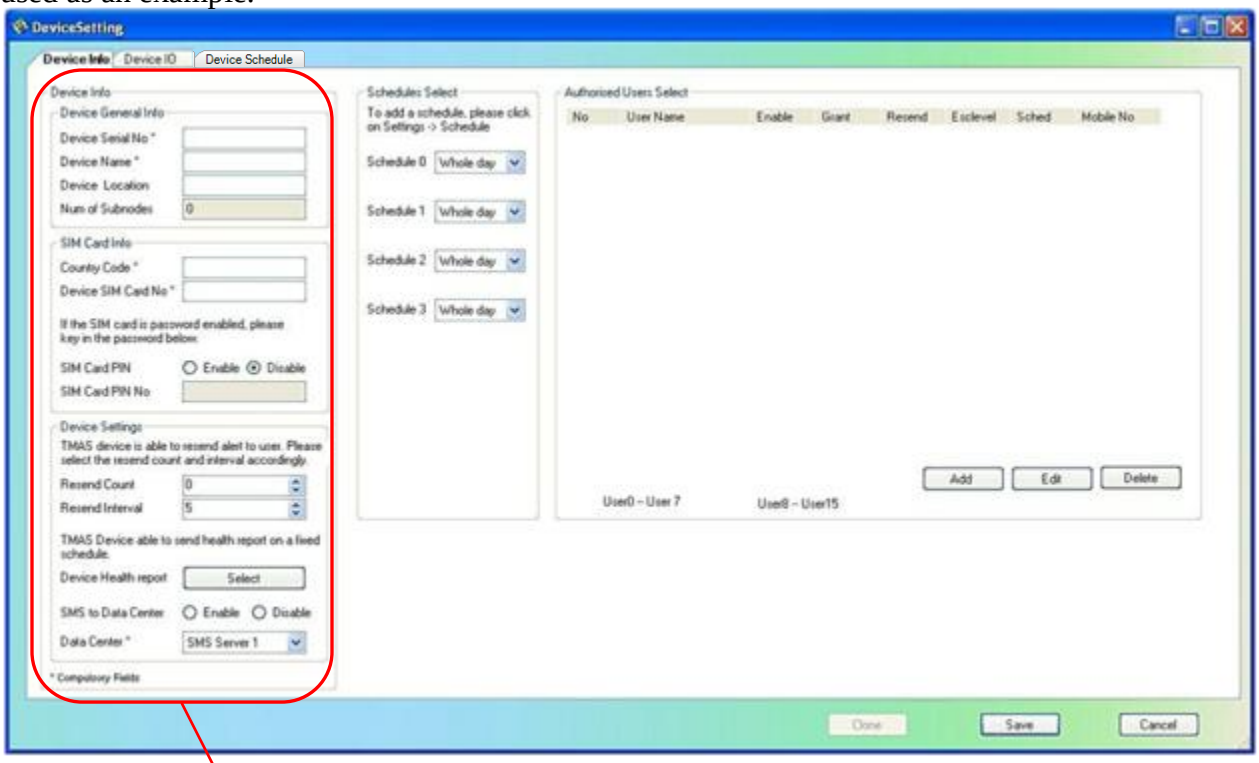
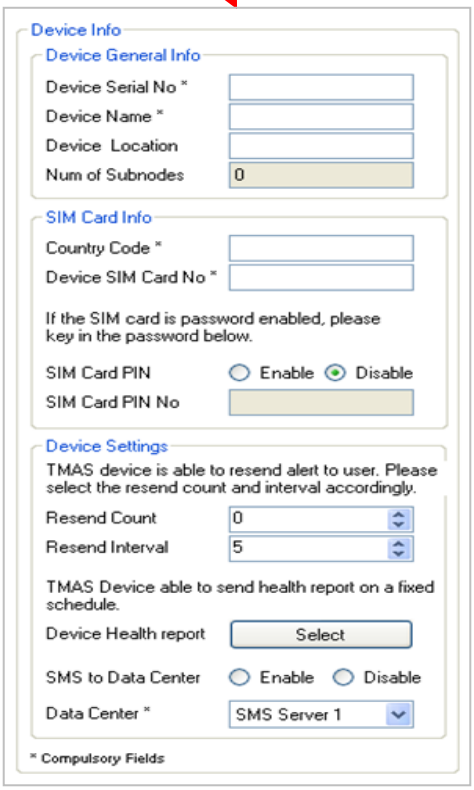


Figure 18: Device Setting, Device Info tab



Under the Device Info tab, the settings are divided into 5 sections:

- Device Info
  - Device Serial No*: Unique ID from manufacturer, obtainable from device label
  - Device Name*: Name of the device.
  - Device Location: Deployment Site.
  - Num of Subnodes: Indication of the total subnode for the device (for TMN-5000/ TMN-5000-SDL only)

- SIM Card Info
  - Country Code*: For e.g. “65” for Singapore.
  - Device SIM Card No*: Valid SIM card Number.
  - SIM Card PIN: Enable if SIM card is password protected
  - SIM Card PIN No: Pin number of the SIM Card

- Device Settings
  - Resend Count: Number of times to resend SMS before escalating to higher level users (from 0-255)
  - Resend Interval: Time interval between each resend (from 1-255min)
  - SMS to Data Center: Enable to allow device to send SMS back to data center
  - Data Center*: Select the SMS Server that the device will be assigned to
  - Device Health Report: Enable to allow the device to send health report back to data center daily, weekly or monthly. Time setting is based on 24 hour format.

*Compulsory Fields

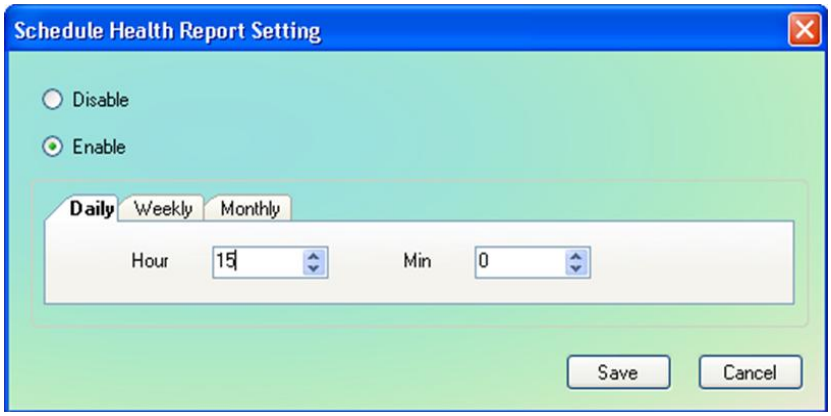


Figure 20: Health Schedule

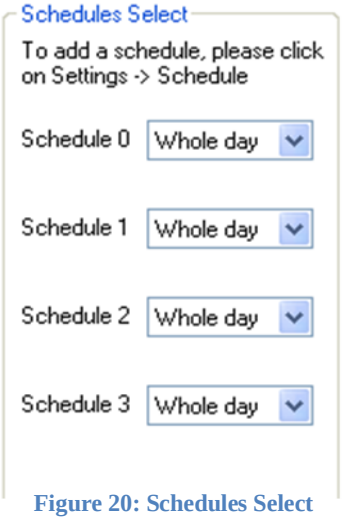
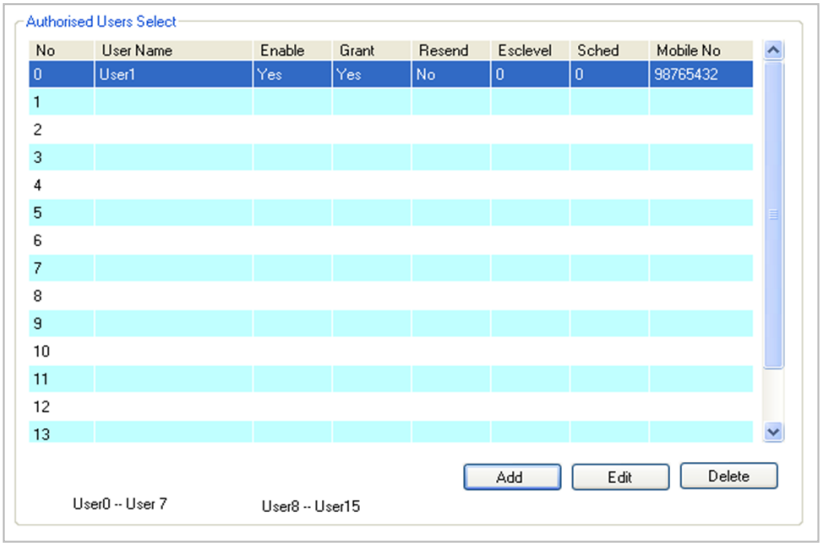


Figure 20: Schedules Select

- Schedule Select
  - This setting is available to TMN-1000, TMN-5000 and TMN-5000-SDL only
  - Up to 4 schedules can be assigned to a device. Further details in the authorized user selection



- Authorized Users Select
  - Click Add button to assign a user to the device
  - Click on Edit button to edit the detail of the authorized user
  - Click Delete button to delete existing authorized user

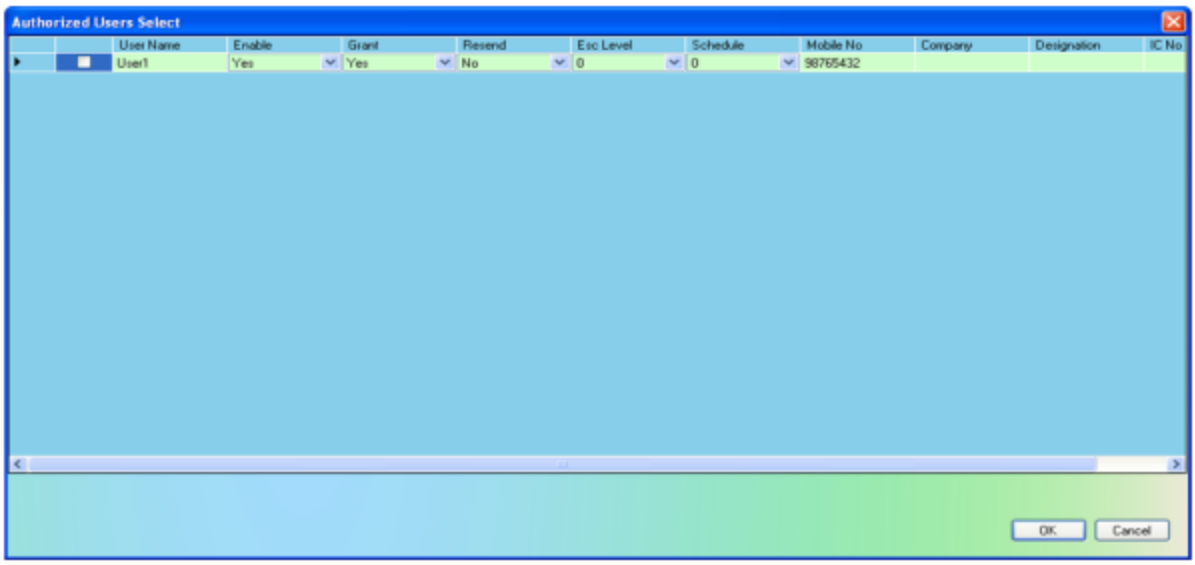


Figure 21: Authorized User Selection

- Enable: Yes if the user's mobile phone is to receive SMS
- Grant: Yes if the user is authorized to send SMS control command to the SIM card number of the device in order to turn on/off its output/access. SMS control command is as followed:
  - "Output channel name**: on**" to turn on output/access. For e.g. **Door: on**
  - "Output channel name**: off**" to turn off output/access. For e.g. **Door: off**
- Resend: Yes if the user needs to respond back to the device within the resent count & interval. To acknowledge back, the user just type in the number indicated in the alarm message and SMS back to the SIM card number of the device.
- Esclevel: If low level user fails to respond, alarm SMS will escalate to next higher position.
  - Level 0 user will receive SMS in his/her mobile phone upon any input triggers.
  - Level 1 user will receive SMS only if any Resend Enabled Level 0 user fails to respond.
  - Level 2 user will receive SMS only if any Resend Enabled Level 1 user fails to respond.
  - Level 3 user will receive SMS only if any Resend Enabled Level 2 user fails to respond.
- Schedule: Select a schedule for assign to this user. User will not receive any alert beyond the schedule

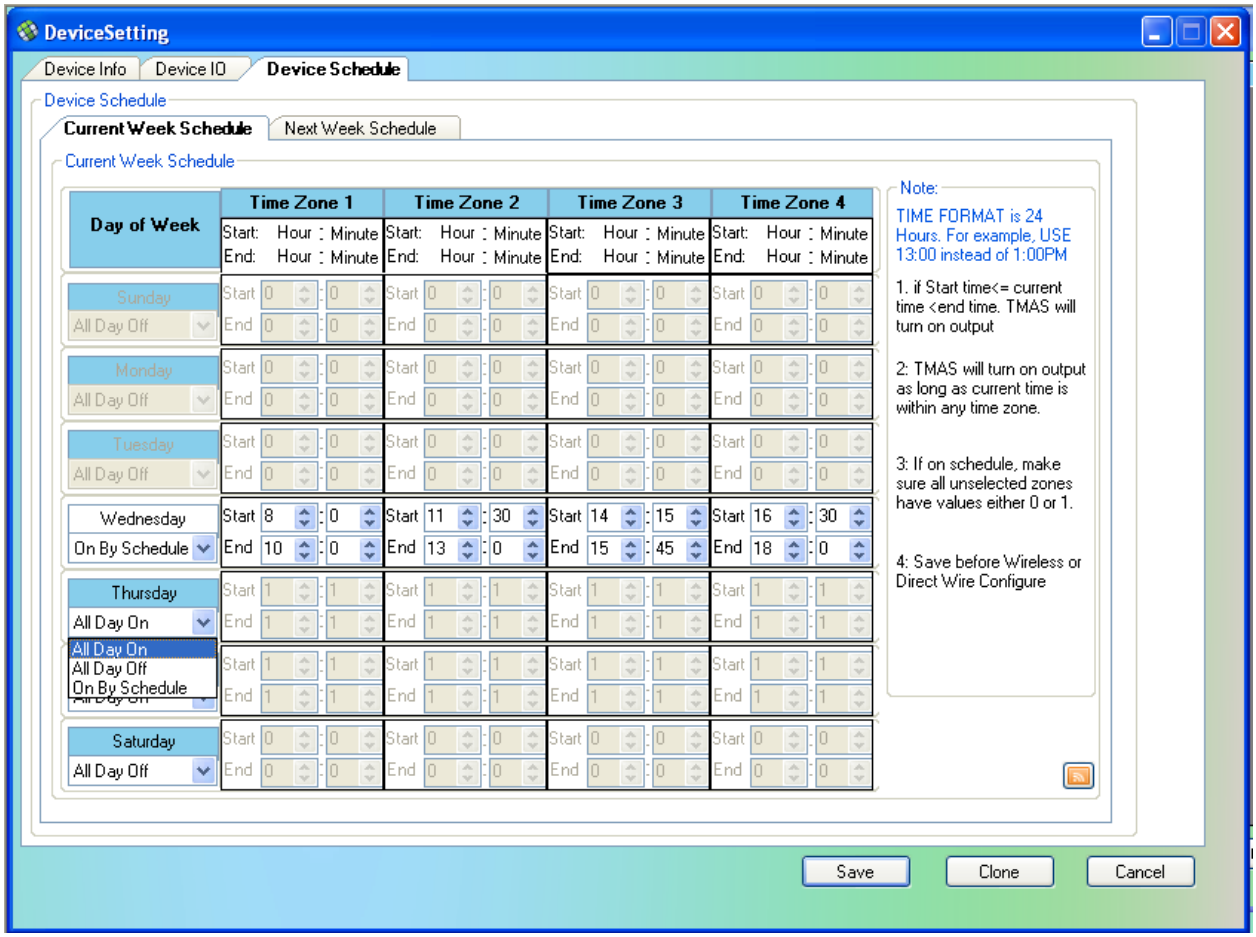


Figure 22a: Device Setting, Device Schedule tab

- Device Schedule
  - This setting is available to TMN-5000-SDL only
  - Output Schedule: 3 types of selection provided, “All Day On”, “All Day Off” and “On By Schedule. Allow the device to turn on output according to the type of selection chosen. It is able to store up to 2 weeks of timing. Time setting is based on 24 hour format.

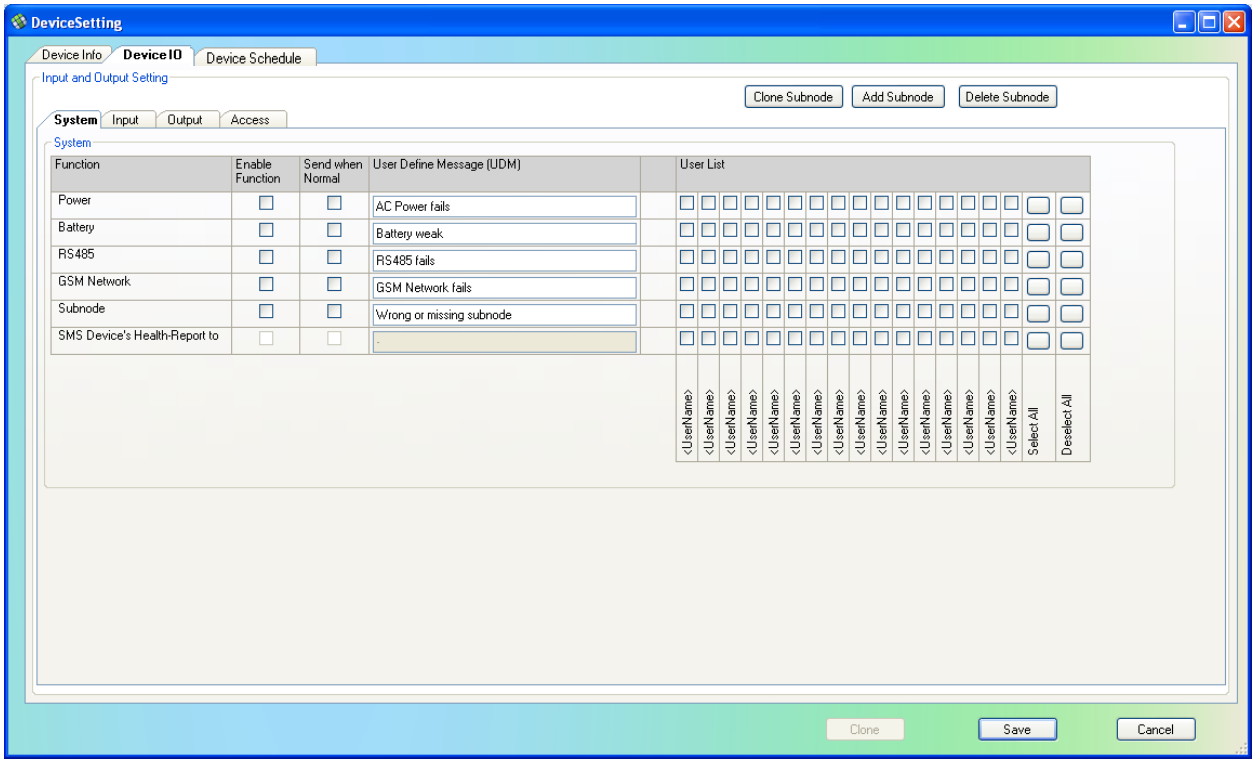


Figure 22: Device Setting, Device IO tab

On Device IO tab, it contains the settings for:

- System: for TMN-1000, TMN-5000 and TMN-5000-SDL only
- Input
- Output
- Access: for TMN-5000 and TMN-5000-SDL only
- Subnode: for TMN-5000 and TMN-5000-SDL only

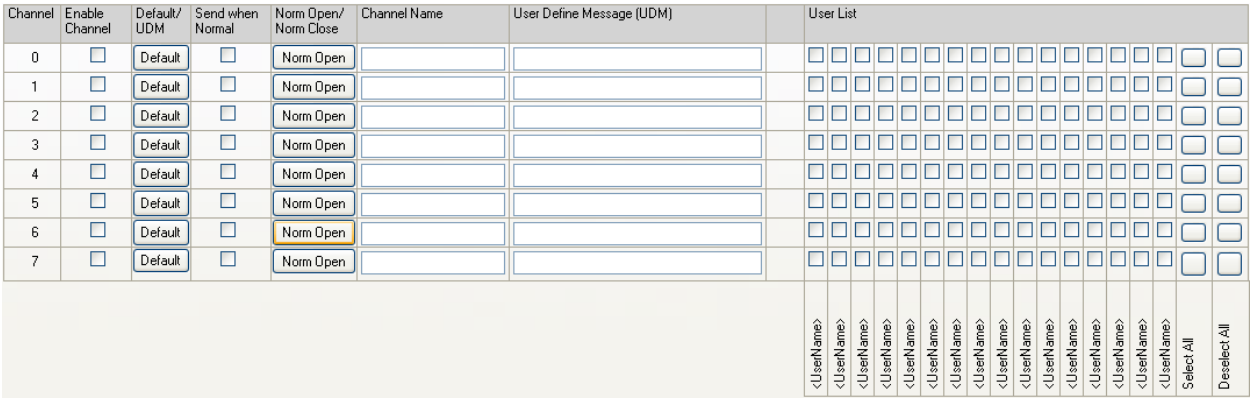


Figure 23: IO Setting

In general, the IO setting has the following:

- Enable Channel: Only enabled channel can send SMS
- Default/UDM: Default: SMS sent out will be in the following format,
  <DeviceName> <ChannelName> is triggered
  UDM: SMS will send out the User Defined Message (UDM)

- Send when Normal: SMS will be sent out when channel return to normal condition. SMS format will be <DeviceName> <ChannelName> is normal
- Norm Open/Close: Define the normal condition of the IO. Eg, If Norm Open is selected, the input will only be triggered by shorting the input to ground.
- Channel Name: Name of the channel
- User Define Message: If UDM is selected, the message defined here will be sent to user
- User List: Tick the user that shall receive the SMS when the channel is Triggered

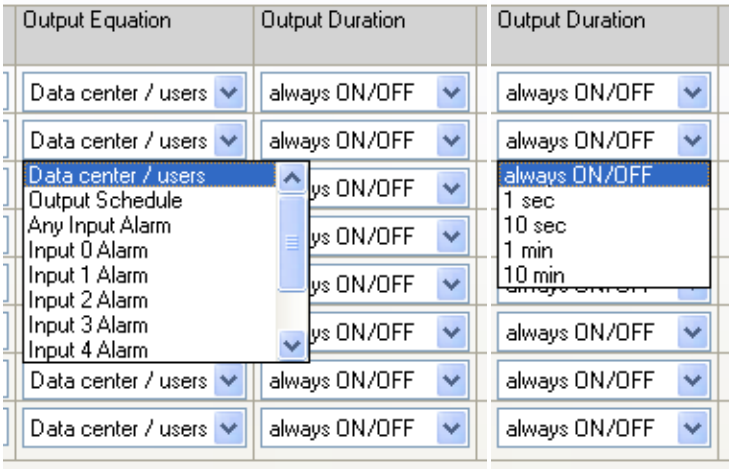


Figure 24: Output Equation and Output Duration

The settings shown in Figure 24 are available on Output tab.

- Output Equation: Define how output will be activated. (Output Schedule selection is available to TMN-5000-SDL only)
- Output Duration: Define how long the output will turn on

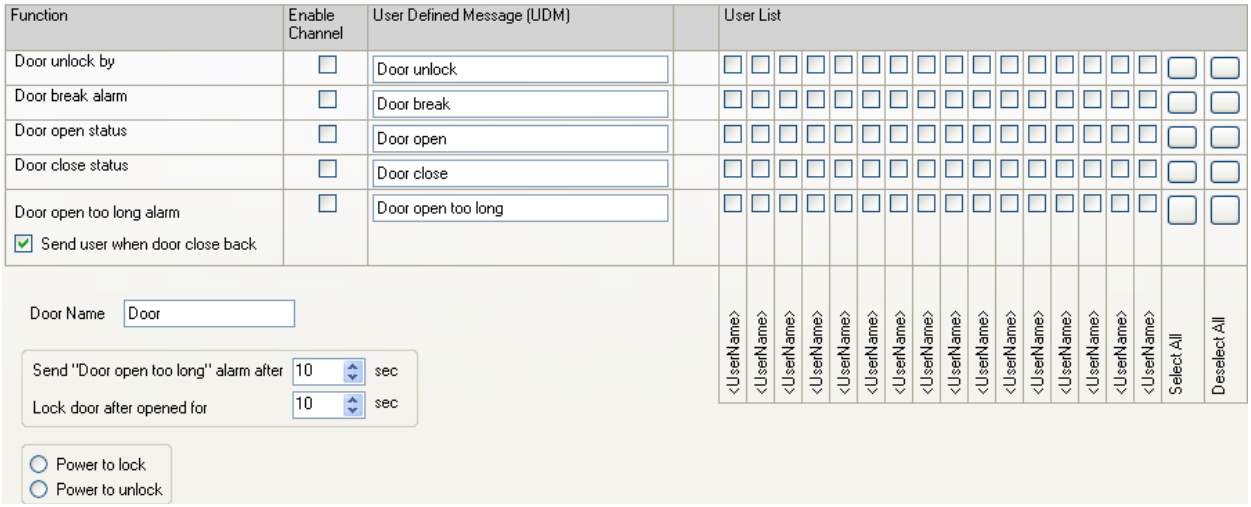


Figure 25: Access Setting for TMN-5000

Access function is available for TMN-5000 and TMN-5000-SDL only. This feature is designed for door access monitoring and the description of the functions is as follow:

- Door unlock by: Alert user when door is unlocked via SMS, this message will indicate the party that unlock the door.
- Door break: Alert user when there is a breach
- Door open: Alert user when the door is open
- Door close: Alert user when the door is closed
- Door open too long: If the door remains open for more than the period defined in 'Send "Door open too long" alarm after', TMN-5000 will beep and send out the SMS
- Power to lock: Door sensor will be set to normally closed (recommended setting)
- Power to unlock: Door sensor will be set to normally open

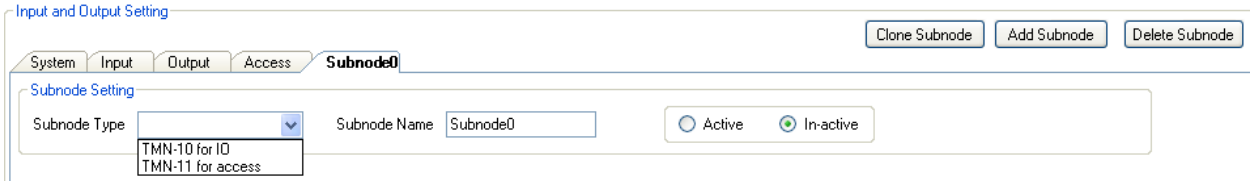


Figure 26: Subnode

Subnode function is available only on TMN-5000 and TMN-5000-SDL. The subnode is referring to TMN-5000/ TMN-5000-SDL expansion board, TMN-10 and TMN-11.

- **TMN-10:** 8 digital input expansion board
- **TMN-11:** access control expansion board

There are 3 controls for subnode:

- Clone Subnode: Select a subnode by clicking on the tab page. Click Clone Subnode button to clone the selected subnode.
- Add Subnode: Add a new subnode
- Delete Subnode: Select a subnode by clicking on the tab page. Click Delete Subnode button to delete the selected subnode.

Each TMN-5000/ TMN-5000-SDL can support up to 16 subnodes. The settings for subnode are the same as input setting for TMN-10 and access setting for TMN-11.

Click on Save button to save the settings. Once the device settings are saved, the newly added device will appear on Device Manager as shown in the figure below.

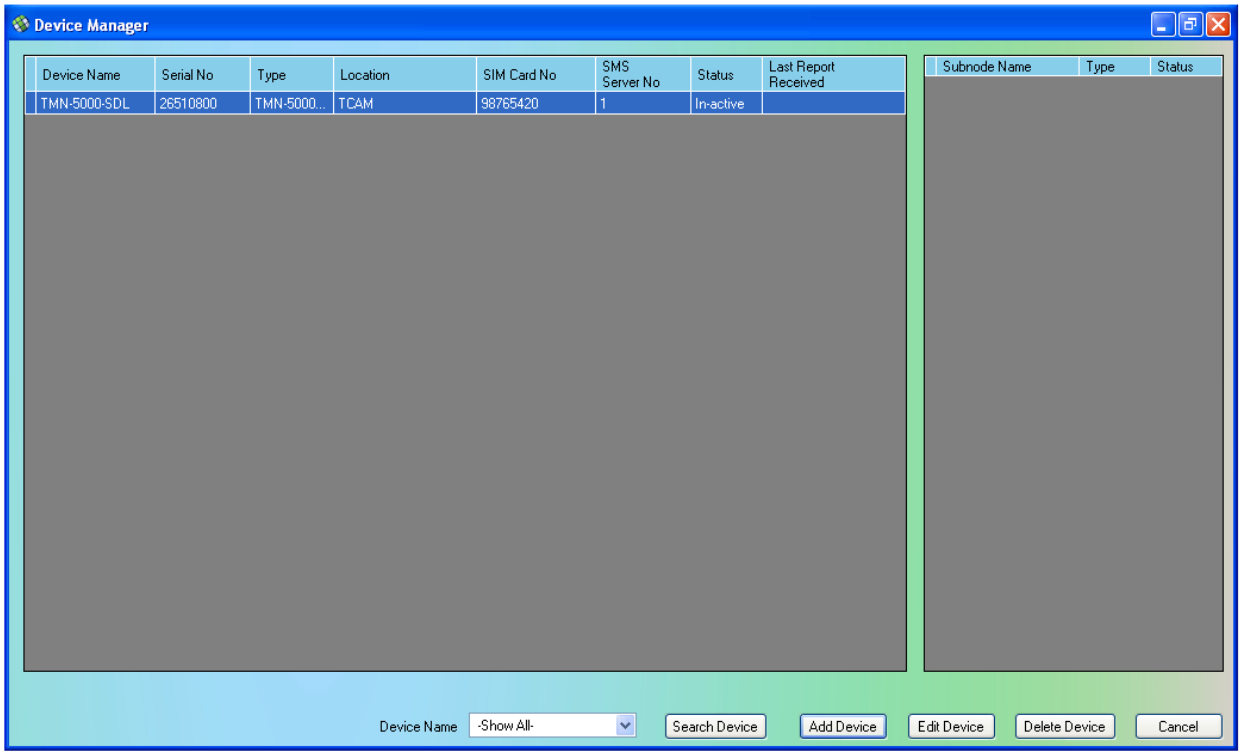


Figure 27: Device Manager, Newly Added Device

Note that a newly added device is always marked as In-active under Status column. An in-active device will only be activated once a direct wire configuration is performed. In-active device could not perform wireless configuration.

7.4 Schedule

TMN-1000, TMN-5000 and TMN-5000-SDL has schedule function that allows the device to send SMS to user according to the user-defined schedule. For example, the device can be programmed to send SMS to users only at working hour, weekdays from 9am to 6pm.

To open up Schedule Manager, click on Schedule Manager button as shown below.

Figure 28: Schedule Manager Button

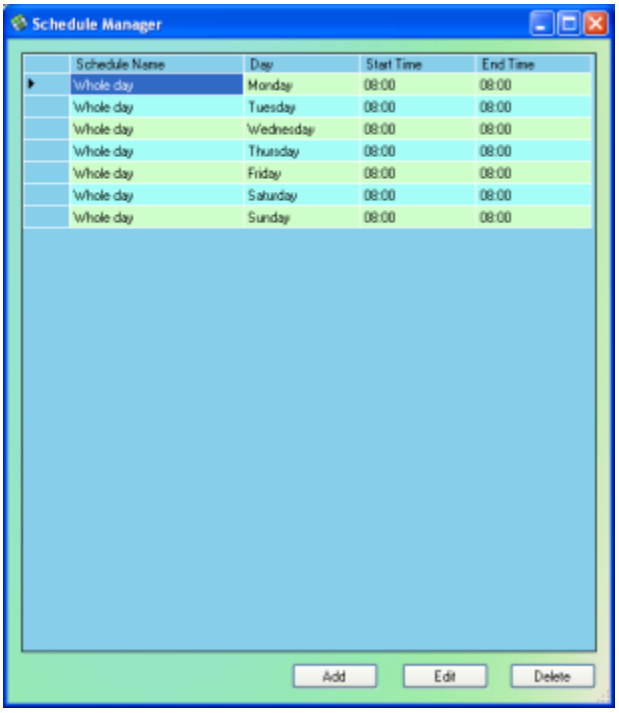


Figure 29: Schedule Manager

Functions available on Schedule Manager are as follow:

- Add: Add a new schedule
- Edit: Edit existing schedule
- Delete: Delete existing schedule

7.4.1 Adding or Editing Schedule

Click on Add or Edit button on Schedule Manager. The following window shall appear.

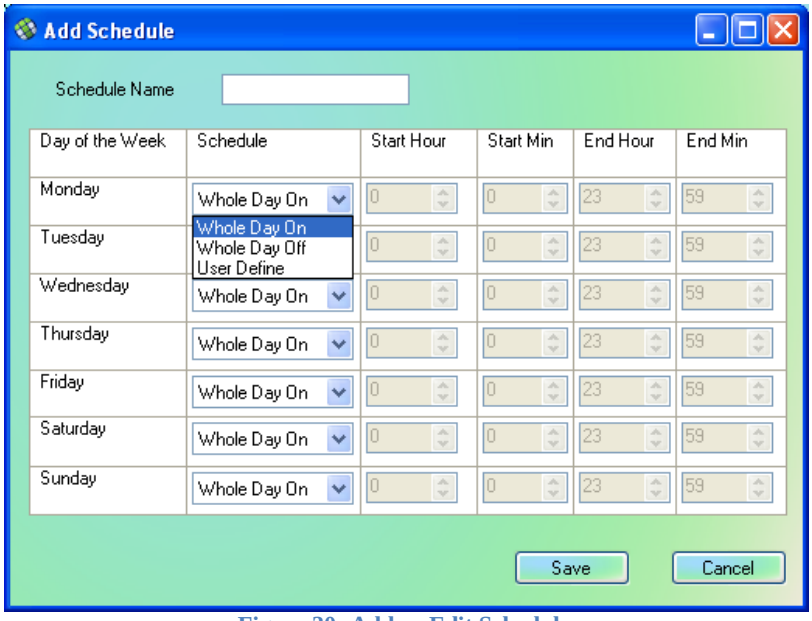


Figure 30: Add or Edit Schedule

When defining the schedule, under the Schedule column, it provides a drop down box for user to select. Description on the selection is as follow:

- Whole Day On: User will be able to receive the SMS for the entire day
- Whole Day Off: User will not be receiving any SMS for the entire day
- User Define: User will only receive SMS if the channel is triggered within the start time (Start Hour: Start Min) and end time (End Hour: End Min)

7.5 SMS Server

SMS Server is an application running in TMAS PC Manager that manages incoming and outgoing SMS. It is therefore crucial for a Central Monitoring System (CMS) to have SMS Server running all the time. Please refer to section 6.3 SMS Server Settings to setup SMS Server for auto start and auto recovery.

The status and availability of the SMS Server can be visually seen on the TMAS PC Manager main interface and also in SMS Server window as shown in Figure 31 and Figure 32. To display SMS Server, click on the SMS Server button as shown in Figure 31.

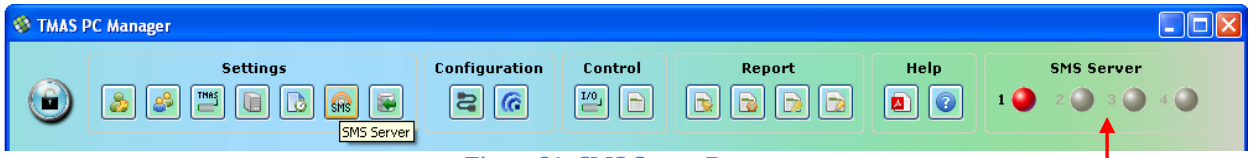


Figure 31: SMS Server Button

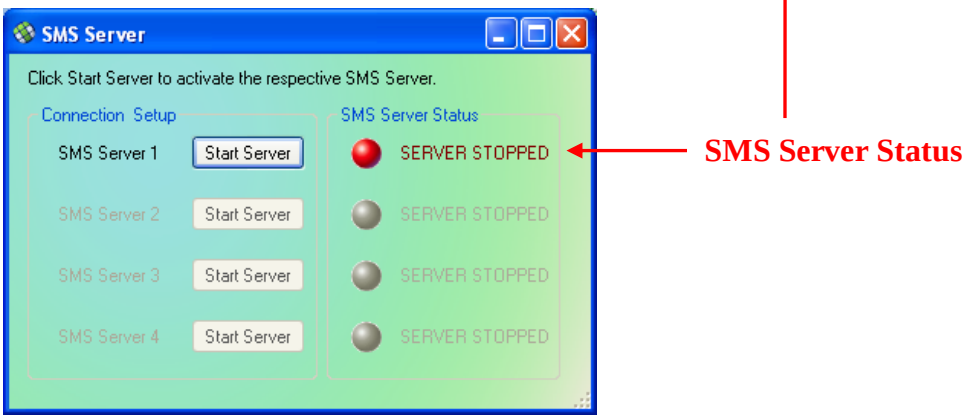


Figure 32: SMS Server Window

SMS Server that is not available will be greyed out. SMS Server that is not running will appear in red. To start the SMS Server, click on Start Server in the SMS Server window. Once SMS Server is running, it will appear as green as shown in Figure 33.

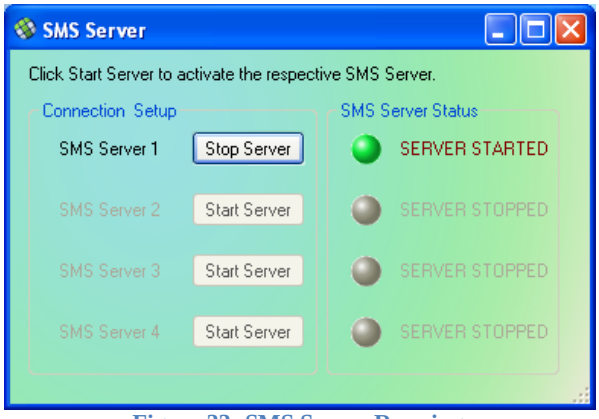


Figure 33: SMS Server Running

To start the SMS Server successfully, make sure the modem is attached to the correct port and SIM card and antenna is attached. SMS Server will not start if GSM modem is not connected to GSM network. Any fault on the GSM modem will be displayed on the Status Display window.

Figure 34: Status Display Window

7.6 Database Backup

TMAS PC Manager supports automated database backup and report archive. Click on the Database Backup Setting button to display the Database Backup Setting window.

Figure 35: Database Backup Setting Button

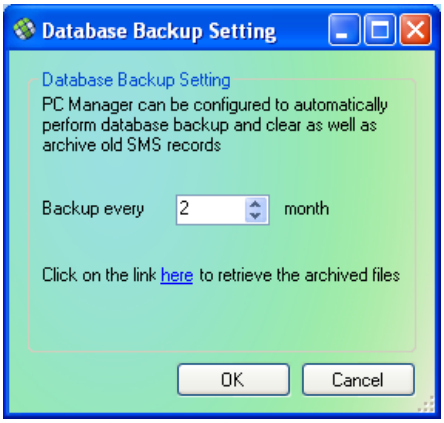


Figure 36: Database Backup Setting Window

User may change the period for TMAS PC manager to perform a backup. It is set to 2 months by default. With this setting, TMAS PC Manager will perform the following at the end of every month:

- Archive and purge the records on Alarm Report, Health Report, Login Report and Test Request Report that is older than the defined period in excel file
- Backup database at once every defined month

The backup folder can be displayed by clicking on the here link on the Database Backup Setting window. Alternatively, it can be found in :

- For Window Xp and below: C:\Documents and Settings\All Users\Application Data\PC_Manager\PC Manager\1.0.0.0\Archive Folder
- For Window 7: C:\ProgramData\PC_Manager\PC Manager\1.0.0.0\Archive Folder

7.7 Device Configuration

All TMAS devices can be configured via wire or wireless. However, it is essential to do direct wire configuration for the first time since wireless configuration is not possible if the data center number is not pre-programmed into device beforehand.

7.7.1 Direct Wire Configuration

To begin configuration, make sure the TMAS device is connected to the PC and is powered on. Be sure that the device is already added in the Device Manager. The connection of TMAS device to the PC is as follow:

- TMN-50T: connect using the programming cable that comes with the set

- TMN-1000/5000/5000-SDL: connect using a female to female DB9 cable that comes with the set

Click on the Direct Wire Configuration button as shown in Figure 37 to proceed.

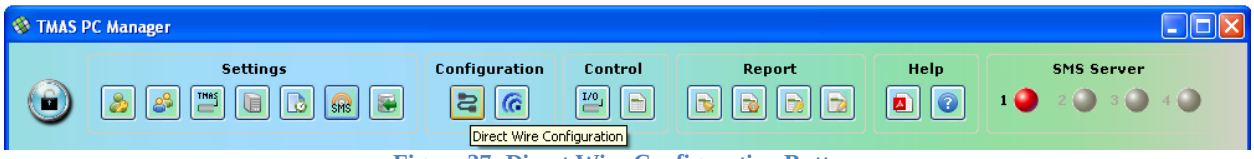


Figure 37: Direct Wire Configuration Button

Figure 38: Direct Wire Configuration Window

Select the comport that the TMAS device is connected to. Select the Device Type to be either

- TMN-50T
  or
- TMN-1000/5000/5000-SDL

Click Configure button to begin. Configuration Status will display the status of the configuration as shown in Figure 39.

Figure 39: Configuration Status

7.7.2 Wireless Configuration

TMAS device can be configured wirelessly via SMS. TMAS PC Manager supports the following wireless configuration:

- Configure entire device
- Configure a portion of the settings
- Automatic configuration that configure only the changes made

Wireless configuration function can be found in the following:

- Device Setting window
  - Configure portion of the settings
  - Configure entire device
- Wireless Configuration window
  - Configure entire device
  - Automatically configure only the changes made

7.7.2.1 Wireless Configuration via Device Setting

Open up Device Manager and select the device to configure. Click Edit button. If direct wire configuration is performed before, the wireless configuration button will be available as shown in Figure 40. Refer to Figure 40 for description.

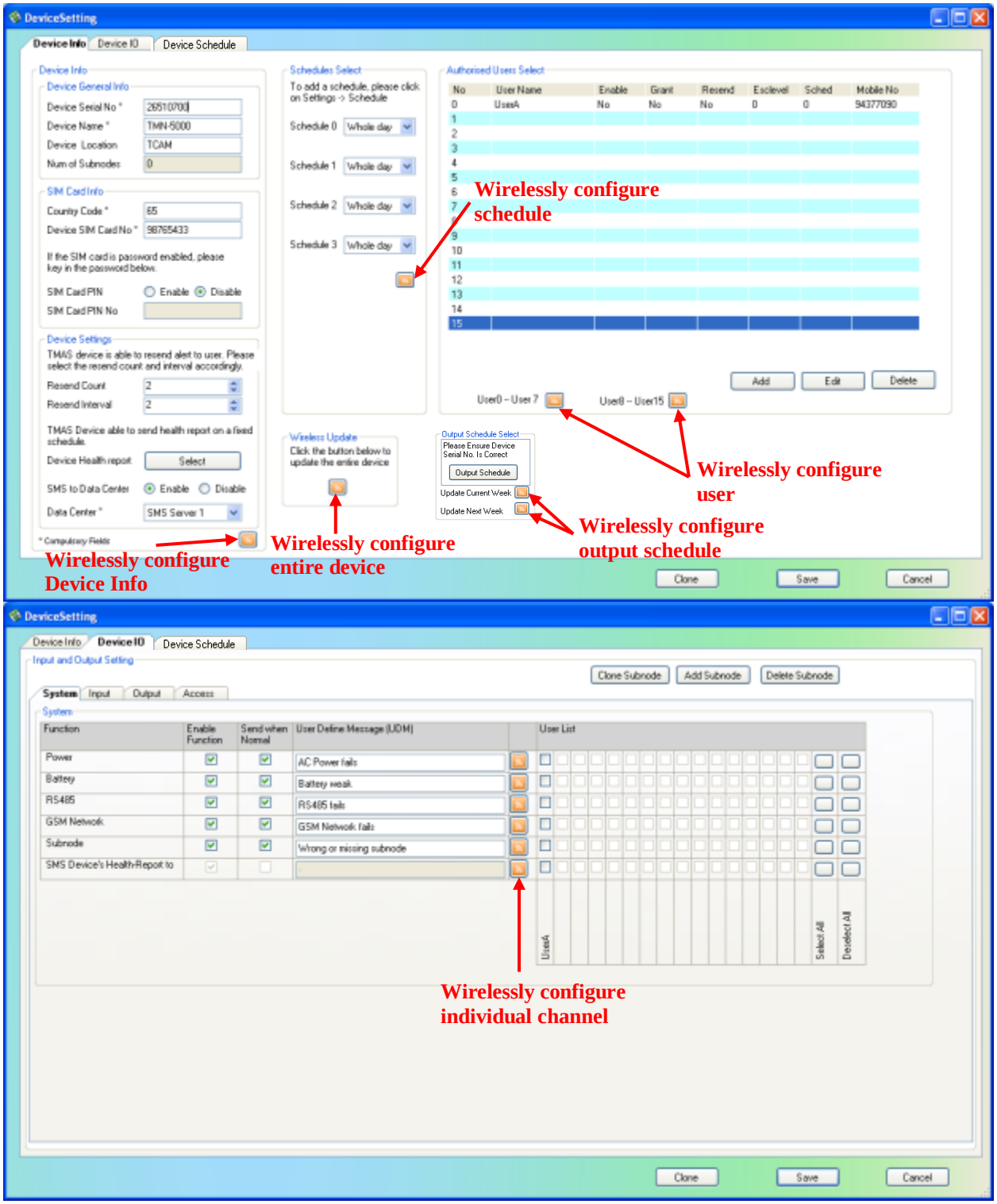


Figure 40: Wireless Configuration on Device Setting

7.7.2.2 Wireless Configuration via Wireless Configuration Window

Click on Wireless Configuration button as shown below.

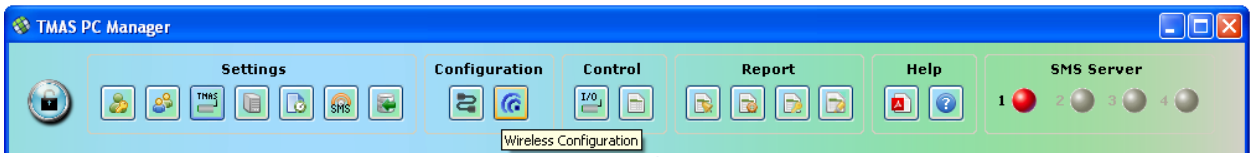


Figure 41: Wireless Configuration Window

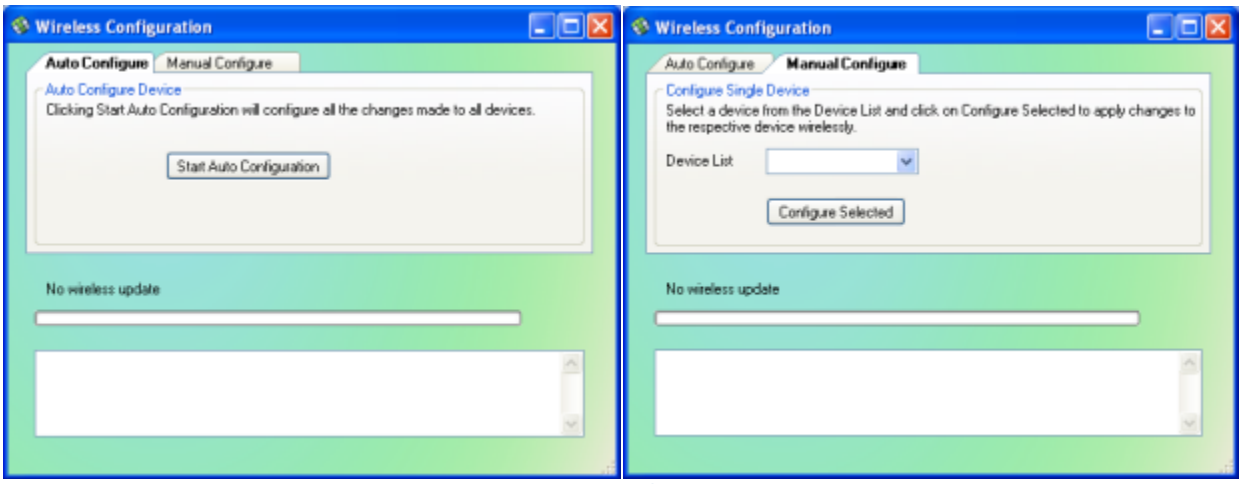


Figure 42: Wireless Configuration Window

Wireless Configuration window provide 2 different mode of wireless configuration:

- Auto Configure: Configure only the changes being made
  - Click Start Auto Configuration to begin
- Manual Configure: User needs to select the device to configure. It will configure the entire device wirelessly.
  - Click Configure Selected to begin

In both cases, make sure SMS Server is running before proceed with wireless configuration.

7.8 Control Device IO

TMAS PC Manager is able to control TMAS device's output and door access (TMN-5000/ TMN-5000-SDL only) wirelessly. To begin, click on Input/Output Control button.

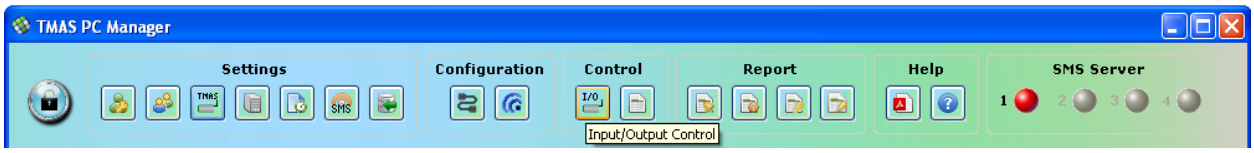


Figure 43: Input/Output Control Button

The Device Control window is divided into Output control and Access control as shown in Figure 44 and Figure 45.

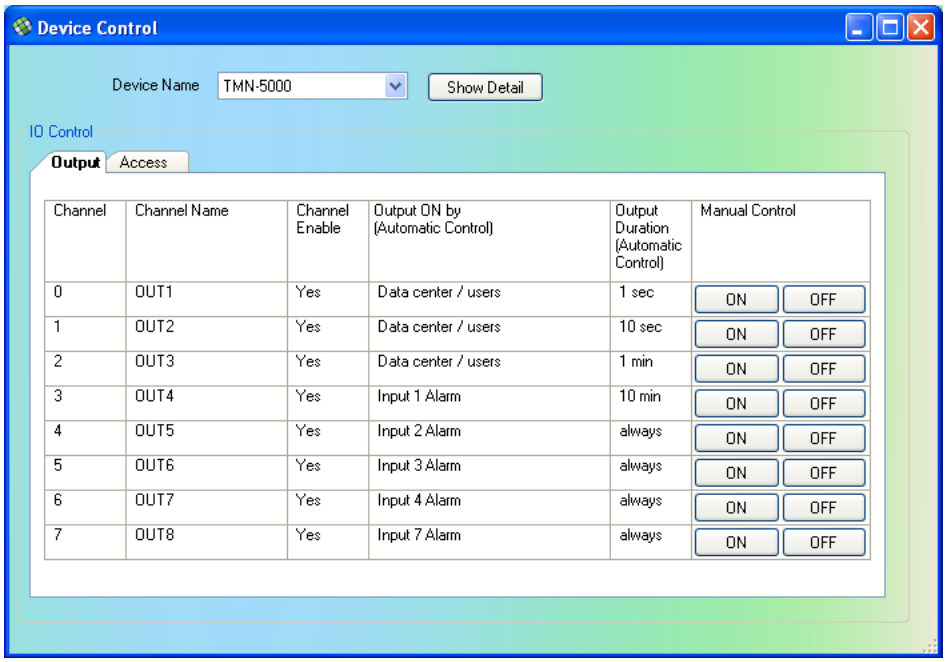


Figure 44: Device Control, Output

To control a particular output, click on ON or OFF button of the respective channel to turn on or turn off the output.

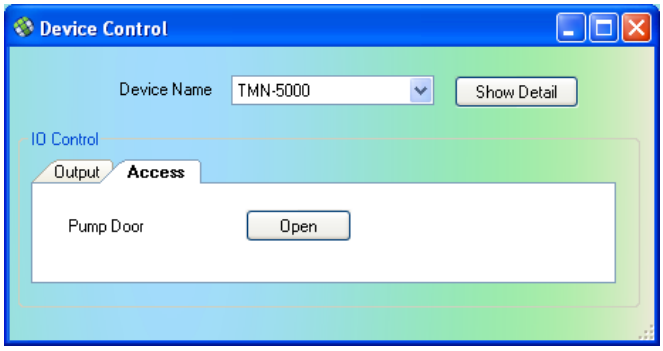


Figure 45: Device Control Window, Access

To control the door access, click on Open button to open the door wirelessly.

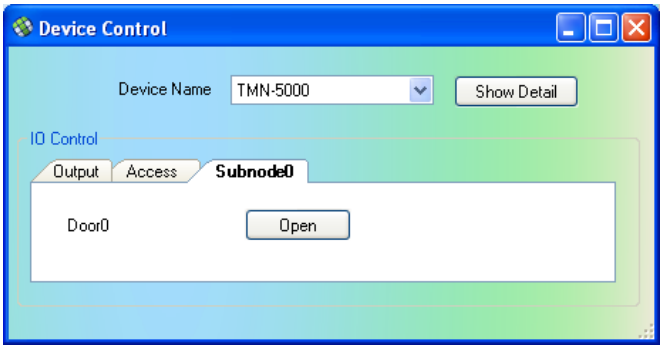


Figure 46: Device Control, Subnode

For TMN-5000/ TMN-5000-SDL with subnode for access control, click on Open button to open the door controlled by that subnode.

7.9 Device Test

TMAS PC Manager is able to request the TMAS device to send back a test report for remote analysis of the device status. For more information on test report, refer to section 8.0 Test Report. To perform a device test, click on Device Test button.

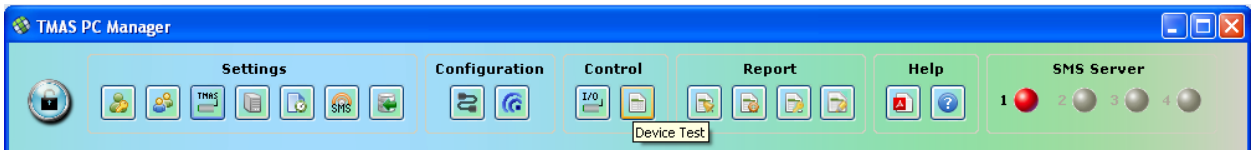


Figure 47: Device Test Button

TMAS PC Manager enables user to perform a manual test on the device as well as an automated device test.

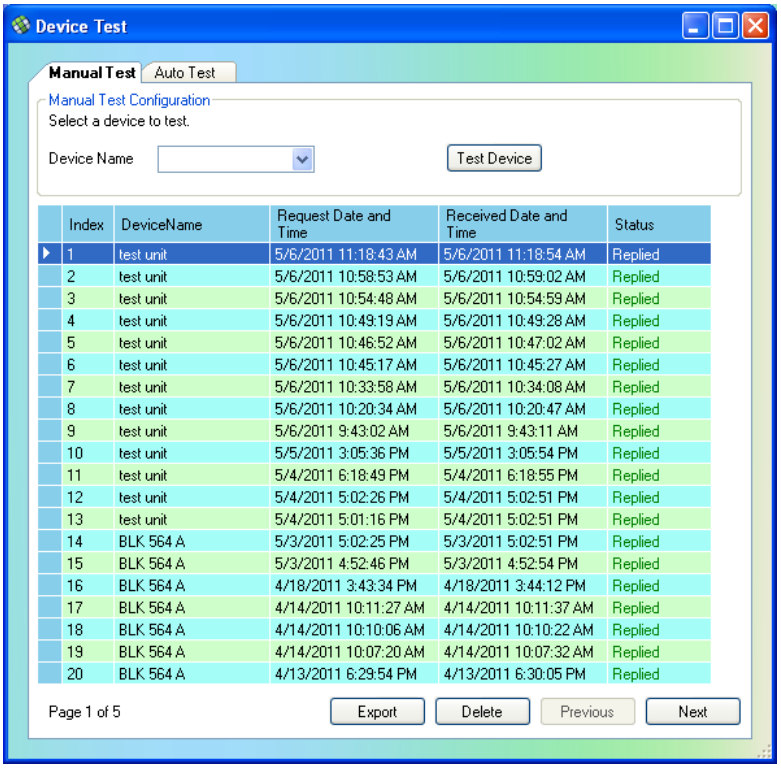


Figure 48: Device Test, Manual Test

To perform a manual test, select the Manual Test tab as shown in Figure 48. Select the Device Name from the list and click Test Device button to send request to the selected device. The table on Manual Test tab shows all test requests and the status, Replied or Pending.

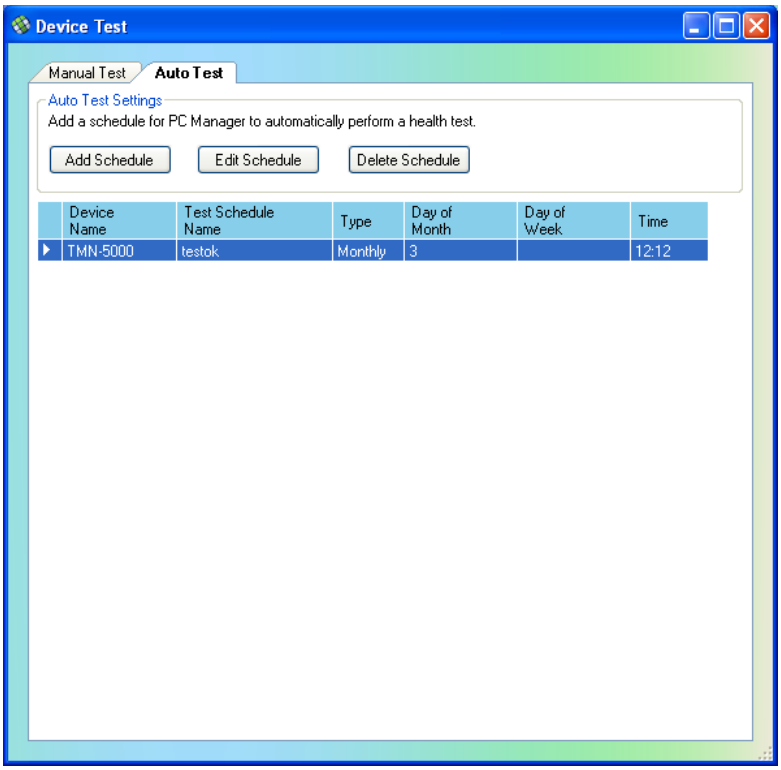


Figure 49: Device test, Auto Test

To perform an automated test, user needs to setup the schedule of the test by clicking on the Add Schedule. The existing schedule can be edited via Edit Schedule button or deleted via Delete Schedule button.

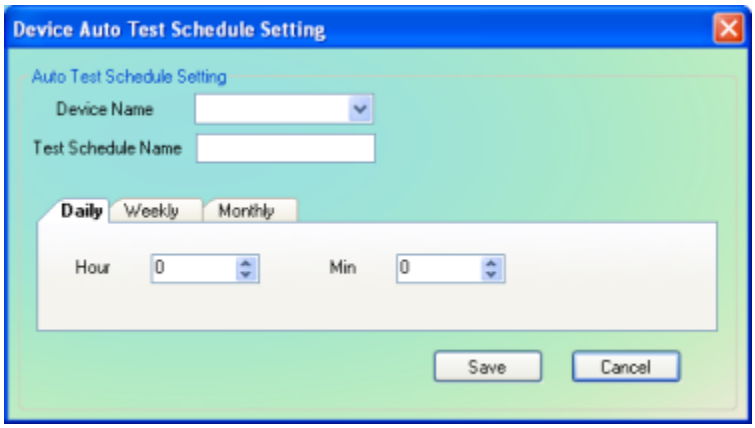


Figure 50: Device Auto Test Schedule Setting

Once Add Schedule button is clicked, the Device Auto Test Schedule Setting window will appear as shown in Figure 50. Select a Device Name from the list and enter a schedule name. Set the schedule to daily, weekly or monthly. TMAS PC Manager will send a test request according to the preset schedule.

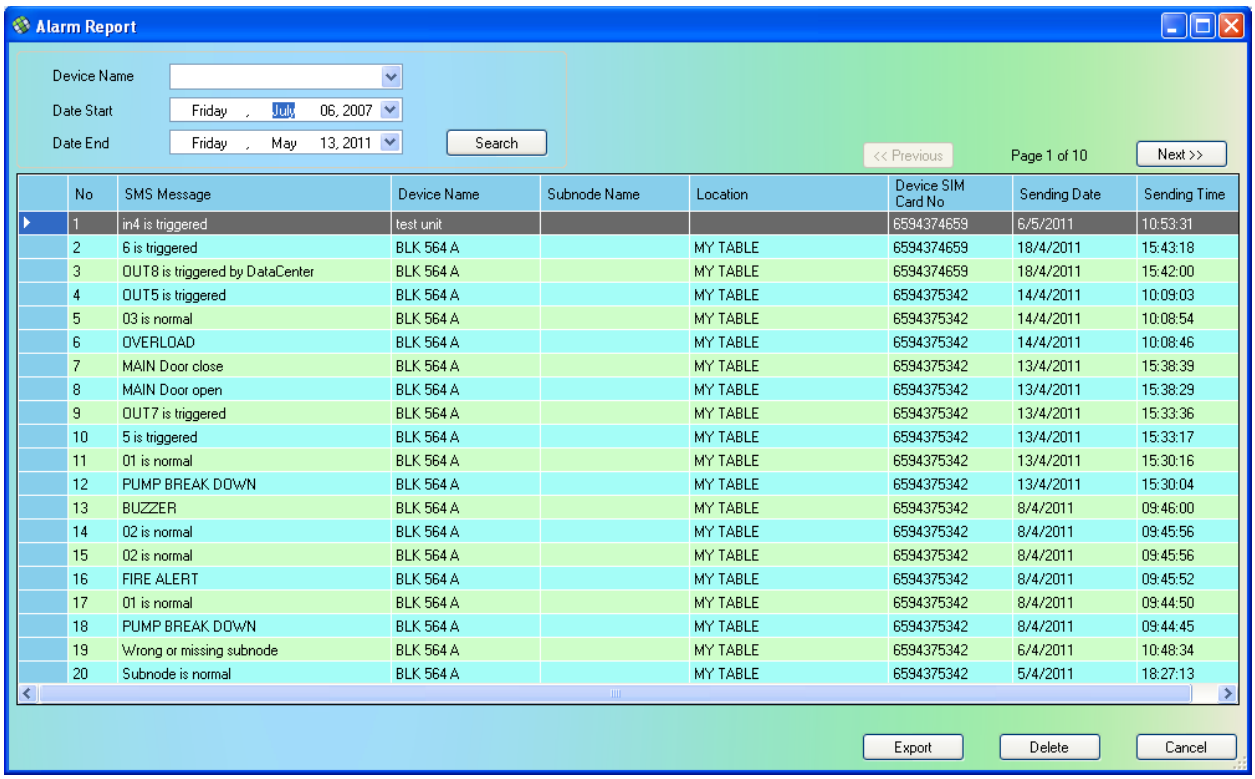
7.10 Reports

There are a total of 4 reports available on TMAS PC Manager. All these reports can be exported out in Excel format for easy reference. The data on these reports will be backed up and purged according the settings in Database Backup. The different type of reports will be highlighted in the following sections.

7.10.1 Alarm Report

Store all the received alarm report from all TMAS devices.

Figure 51: Alarm Report Button



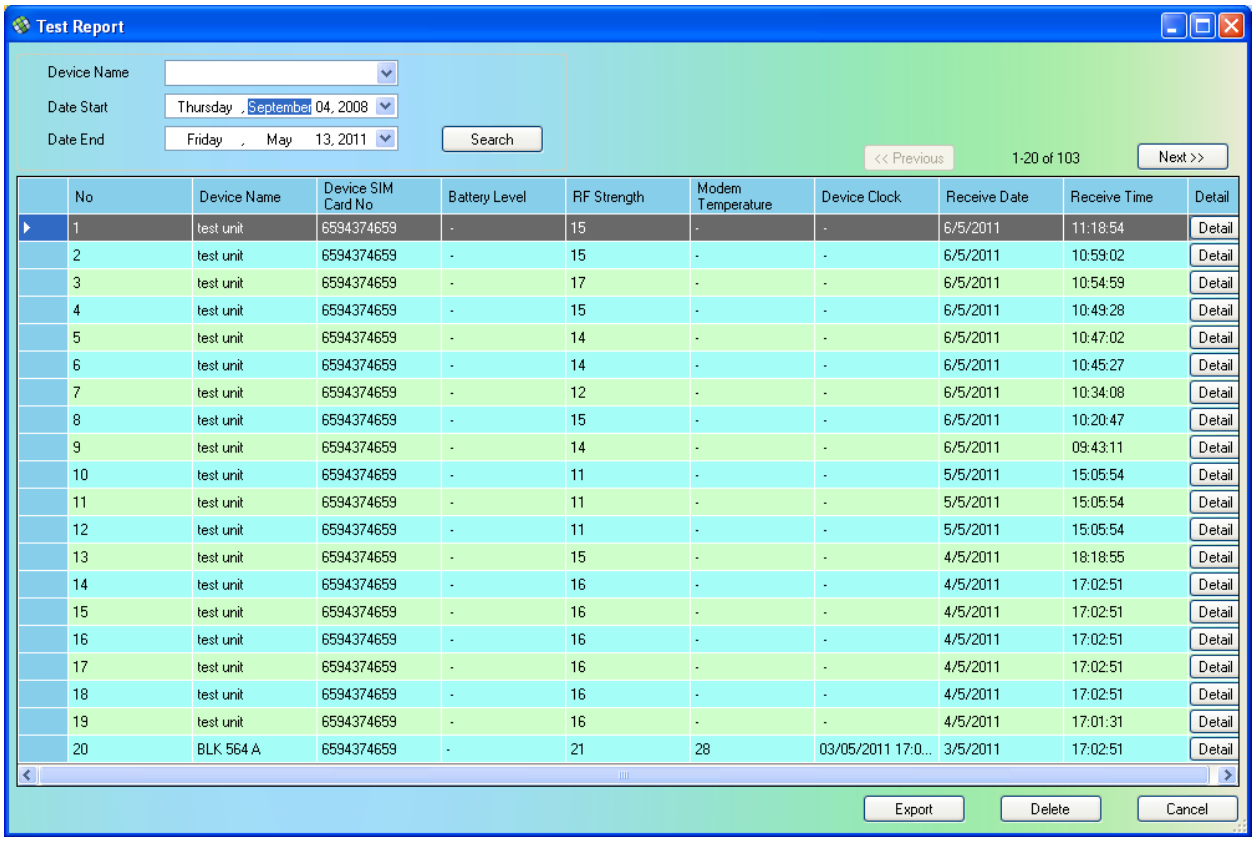
	No	SMS Message	Device Name	Subnode Name	Location	Device SIM Card No	Sending Date	Sending Time
▶	1	in4 is triggered	test unit			6594374659	6/5/2011	10:53:31
	2	6 is triggered	BLK 564 A		MY TABLE	6594374659	18/4/2011	15:43:18
	3	OUT8 is triggered by DataCenter	BLK 564 A		MY TABLE	6594374659	18/4/2011	15:42:00
	4	OUT5 is triggered	BLK 564 A		MY TABLE	6594375342	14/4/2011	10:09:03
	5	03 is normal	BLK 564 A		MY TABLE	6594375342	14/4/2011	10:08:54
	6	OVERLOAD	BLK 564 A		MY TABLE	6594375342	14/4/2011	10:08:46
	7	MAIN Door close	BLK 564 A		MY TABLE	6594375342	13/4/2011	15:38:39
	8	MAIN Door open	BLK 564 A		MY TABLE	6594375342	13/4/2011	15:38:29
	9	OUT7 is triggered	BLK 564 A		MY TABLE	6594375342	13/4/2011	15:33:36
	10	5 is triggered	BLK 564 A		MY TABLE	6594375342	13/4/2011	15:33:17
	11	01 is normal	BLK 564 A		MY TABLE	6594375342	13/4/2011	15:30:16
	12	PUMP BREAK DOWN	BLK 564 A		MY TABLE	6594375342	13/4/2011	15:30:04
	13	BUZZER	BLK 564 A		MY TABLE	6594375342	8/4/2011	09:46:00
	14	02 is normal	BLK 564 A		MY TABLE	6594375342	8/4/2011	09:45:56
	15	02 is normal	BLK 564 A		MY TABLE	6594375342	8/4/2011	09:45:56
	16	FIRE ALERT	BLK 564 A		MY TABLE	6594375342	8/4/2011	09:45:52
	17	01 is normal	BLK 564 A		MY TABLE	6594375342	8/4/2011	09:44:50
	18	PUMP BREAK DOWN	BLK 564 A		MY TABLE	6594375342	8/4/2011	09:44:45
	19	Wrong or missing subnode	BLK 564 A		MY TABLE	6594375342	6/4/2011	10:48:34
	20	Subnode is normal	BLK 564 A		MY TABLE	6594375342	5/4/2011	18:27:13

Figure 52: Alarm Report

7.10.2 Test Report

Store all received test report.

Figure 53: Test Report Button



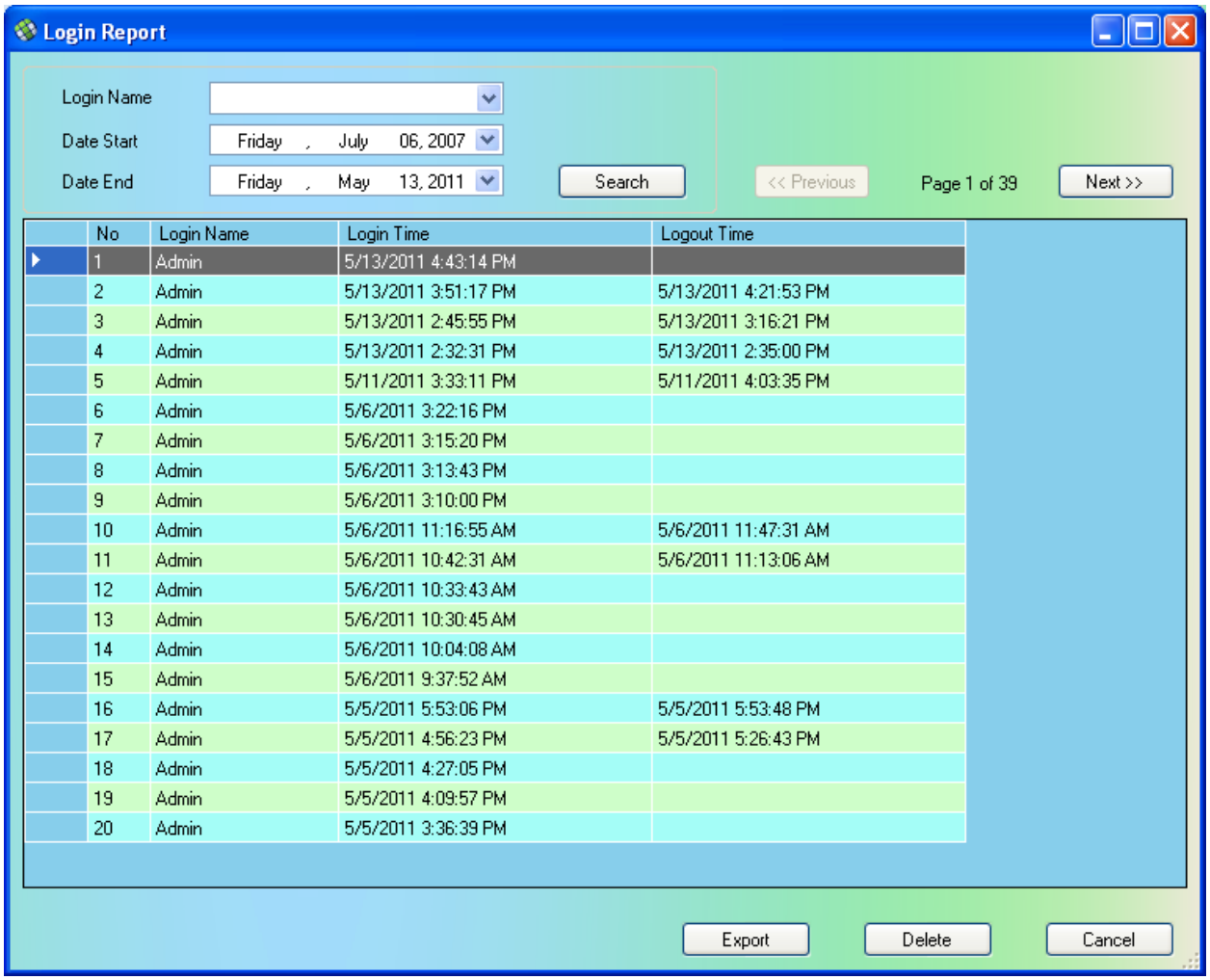
No	Device Name	Device SIM Card No	Battery Level	RF Strength	Modem Temperature	Device Clock	Receive Date	Receive Time	Detail
1	test unit	6594374659	-	15	-	-	6/5/2011	11:18:54	Detail
2	test unit	6594374659	-	15	-	-	6/5/2011	10:59:02	Detail
3	test unit	6594374659	-	17	-	-	6/5/2011	10:54:59	Detail
4	test unit	6594374659	-	15	-	-	6/5/2011	10:49:28	Detail
5	test unit	6594374659	-	14	-	-	6/5/2011	10:47:02	Detail
6	test unit	6594374659	-	14	-	-	6/5/2011	10:45:27	Detail
7	test unit	6594374659	-	12	-	-	6/5/2011	10:34:08	Detail
8	test unit	6594374659	-	15	-	-	6/5/2011	10:20:47	Detail
9	test unit	6594374659	-	14	-	-	6/5/2011	09:43:11	Detail
10	test unit	6594374659	-	11	-	-	5/5/2011	15:05:54	Detail
11	test unit	6594374659	-	11	-	-	5/5/2011	15:05:54	Detail
12	test unit	6594374659	-	11	-	-	5/5/2011	15:05:54	Detail
13	test unit	6594374659	-	15	-	-	4/5/2011	18:18:55	Detail
14	test unit	6594374659	-	16	-	-	4/5/2011	17:02:51	Detail
15	test unit	6594374659	-	16	-	-	4/5/2011	17:02:51	Detail
16	test unit	6594374659	-	16	-	-	4/5/2011	17:02:51	Detail
17	test unit	6594374659	-	16	-	-	4/5/2011	17:02:51	Detail
18	test unit	6594374659	-	16	-	-	4/5/2011	17:02:51	Detail
19	test unit	6594374659	-	16	-	-	4/5/2011	17:01:31	Detail
20	BLK 564 A	6594374659	-	21	28	03/05/2011 17:0...	3/5/2011	17:02:51	Detail

Figure 54: Test Report

7.10.3 Login Report

Indicate user login and logout date and time.

Figure 55: Login Report Button



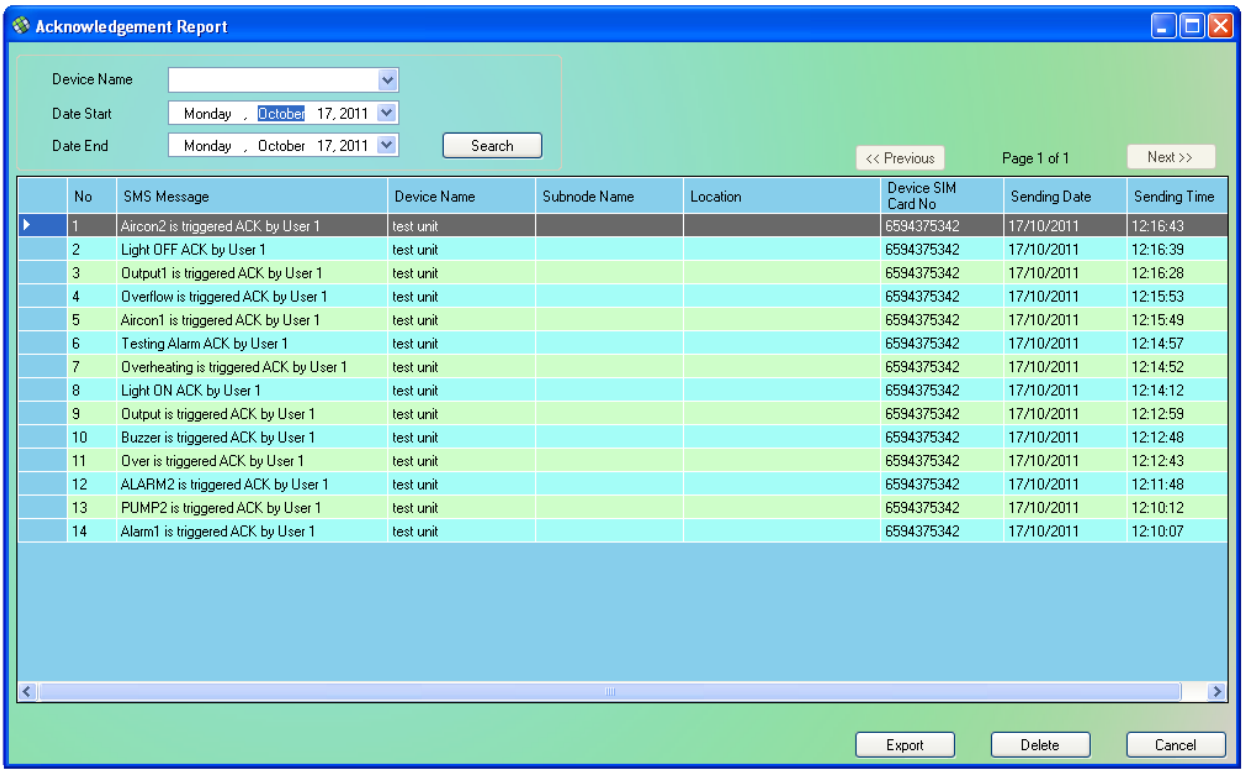
No	Login Name	Login Time	Logout Time
1	Admin	5/13/2011 4:43:14 PM	
2	Admin	5/13/2011 3:51:17 PM	5/13/2011 4:21:53 PM
3	Admin	5/13/2011 2:45:55 PM	5/13/2011 3:16:21 PM
4	Admin	5/13/2011 2:32:31 PM	5/13/2011 2:35:00 PM
5	Admin	5/11/2011 3:33:11 PM	5/11/2011 4:03:35 PM
6	Admin	5/6/2011 3:22:16 PM	
7	Admin	5/6/2011 3:15:20 PM	
8	Admin	5/6/2011 3:13:43 PM	
9	Admin	5/6/2011 3:10:00 PM	
10	Admin	5/6/2011 11:16:55 AM	5/6/2011 11:47:31 AM
11	Admin	5/6/2011 10:42:31 AM	5/6/2011 11:13:06 AM
12	Admin	5/6/2011 10:33:43 AM	
13	Admin	5/6/2011 10:30:45 AM	
14	Admin	5/6/2011 10:04:08 AM	
15	Admin	5/6/2011 9:37:52 AM	
16	Admin	5/5/2011 5:53:06 PM	5/5/2011 5:53:48 PM
17	Admin	5/5/2011 4:56:23 PM	5/5/2011 5:26:43 PM
18	Admin	5/5/2011 4:27:05 PM	
19	Admin	5/5/2011 4:09:57 PM	
20	Admin	5/5/2011 3:36:39 PM	

Figure 56: Login Report

7.10.4 Acknowledgement Report

Store all the received acknowledgement report from all TMAS devices.

Figure 57: Acknowledgement Report Button



No	SMS Message	Device Name	Subnode Name	Location	Device SIM Card No	Sending Date	Sending Time
1	Aircon2 is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:16:43
2	Light OFF ACK by User 1	test unit			6594375342	17/10/2011	12:16:39
3	Output1 is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:16:28
4	Overflow is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:15:53
5	Aircon1 is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:15:49
6	Testing Alarm ACK by User 1	test unit			6594375342	17/10/2011	12:14:57
7	Overheating is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:14:52
8	Light ON ACK by User 1	test unit			6594375342	17/10/2011	12:14:12
9	Output is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:12:59
10	Buzzer is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:12:48
11	Over is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:12:43
12	ALARM2 is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:11:48
13	PUMP2 is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:10:12
14	Alarm1 is triggered ACK by User 1	test unit			6594375342	17/10/2011	12:10:07

Figure 58: Acknowledgement Report

7.10.5 Test Request Report

Shows the test request and the response of the device.

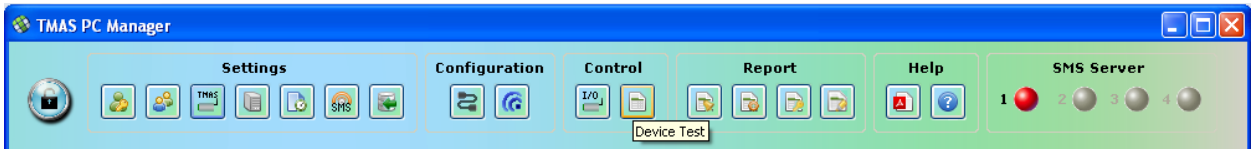


Figure 59: Device Test Button

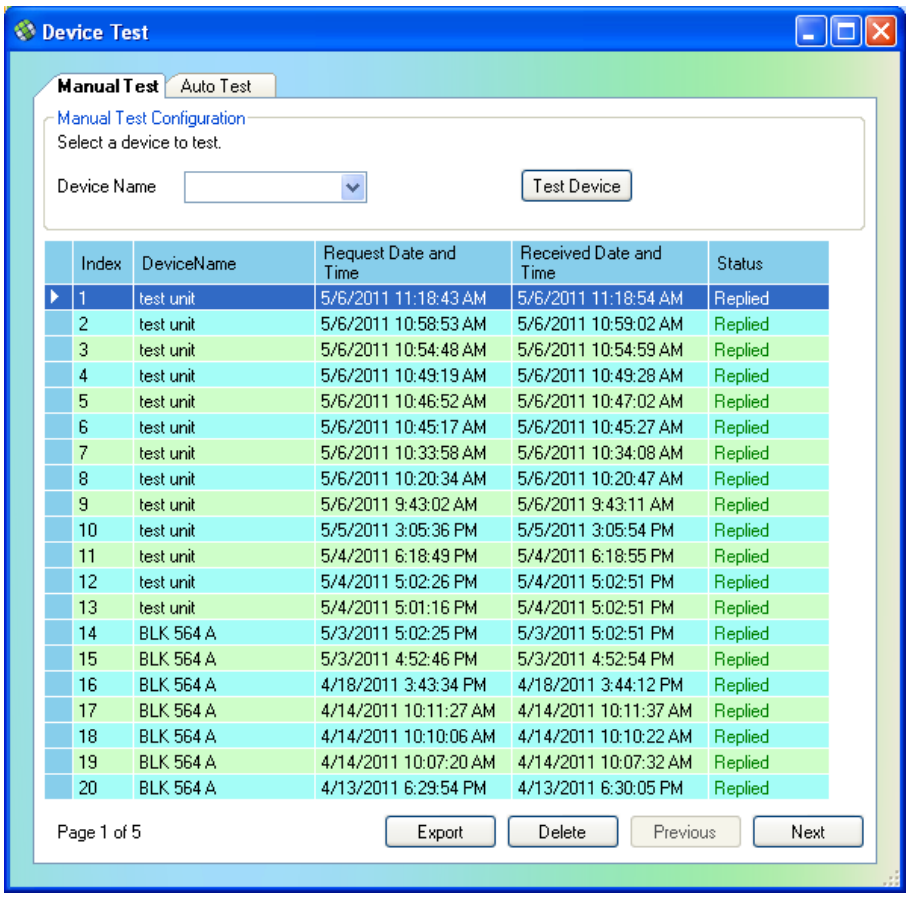


Figure 59: Test Request Report

8.0 Test Report

The test report contains information about the status of the device. In general, it contains the following information:

- Battery Level (TMN-1000/5000/5000-SDL only)
- RF Strength
- Modem Temperature
- Device Clock (TMN-1000/5000/5000-SDL only)
- I/O Status
- Synchronization

All these details are available on the Test Report window. As shown in Figure 61. I/O status and synchronization is available by clicking on the Detail button on the respective test report.

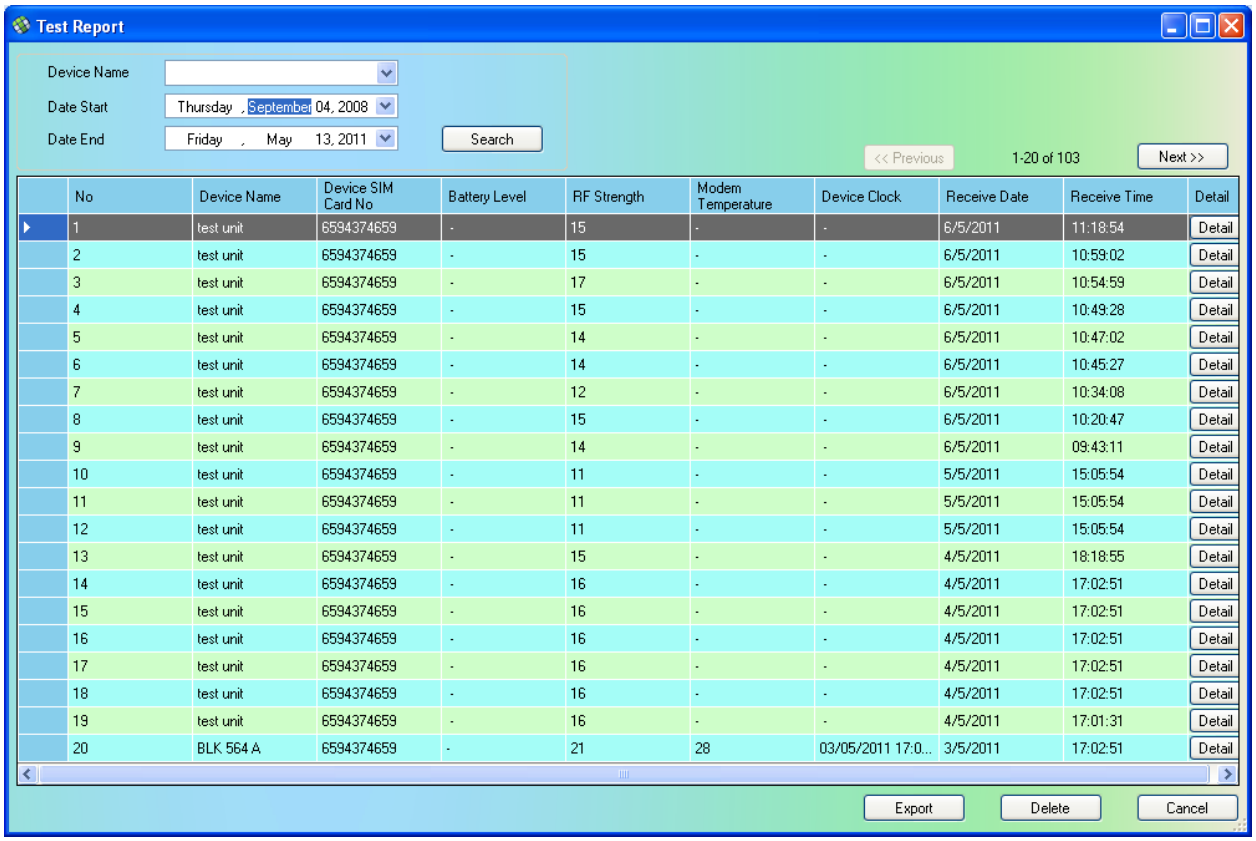


Figure 61: Test Report

Figure 62 shows the details of the test report containing the I/O status and the synchronization of the device settings compared to TMAS PC Manager.

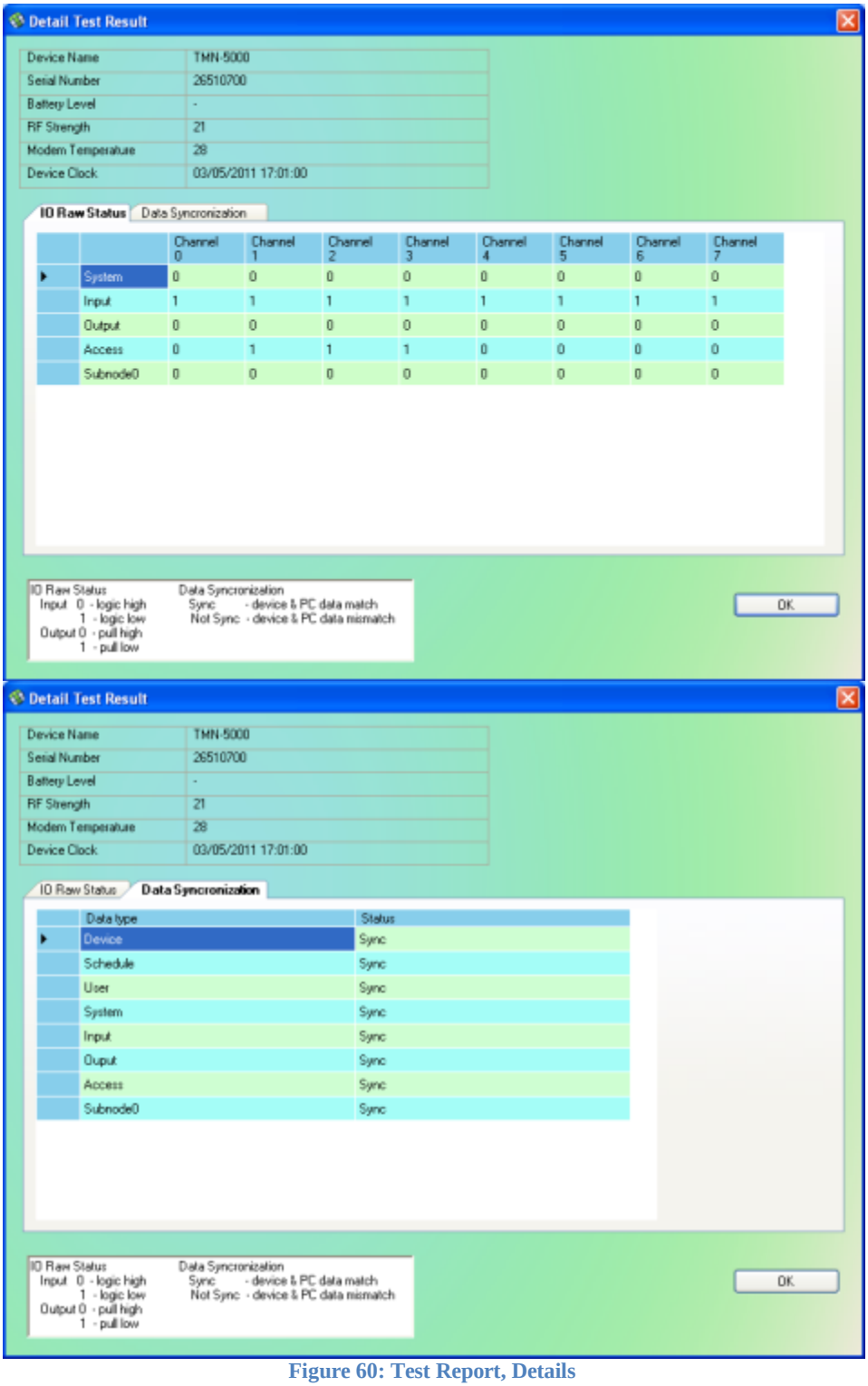


Figure 60: Test Report, Details

9.0 Migration from PC Manager Version 4.07, 4.08, 4.09, 5.02, 5.03, 5.04 and 5.06

TMAS PC Manager Version 5.06 is compatible with PC Manager Version 4.07, 4.08, 4.09, 5.02, 5.03, 5.04 and 5.06. To perform a migration from above 5.04, simply run the setup file of TMAS PC Manager Version 5.07 and during the installation, choose 'Reuse existing database'. A copy of the old database will be backed up in the Backup folder:

- For Window Xp and below: C:\Documents and Settings\All Users\Application Data\PC_Manager\PC Manager\1.0.0.0\Archive Folder\Database Backup
- For Window 7: C:\ProgramData\PC_Manager\PC Manager\1.0.0.0\Archive Folder\Database Backup

There is a change of directory for PC Manager Version 5.04 and above. To reuse eisting database from PC Manager Version 5.03 and below, copy the "PC_Info.mdb" file from C:\Program Files\TMAS PC Manager and paste to the folder:

- For Window Xp and below: C:\Documents and Settings\All Users\Application Data\PC_Manager\PC Manager\1.0.0.0\
- For Window 7: C:\ProgramData\PC_Manager\PC Manager\1.0.0.0\

As TMAS PC Manager supports 4 SMS Server, all devices migrated from PC Manager of the earlier version will be assigned to SMS Server 1.

Support

For any sales and technical enquiries, please contact our local sales representatives directly or TCAM Technology Pte Ltd.

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Singapore 417938.

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Cinterion M2M One URL: http://www.cinterion.com/link/en/220009#220009

For sales enquiries, please email to enquiry@tcam.com.sg
For technical enquiries, please email to support@tcam.com.sg