Mircom

TX3 Series

Telephone Access, Card Access, Configurator *and* Touch Screen

Configuration and Administration Manual

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Mircom Configuration and Administrator Guide Version 9

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1 Welcome

This chapter provides information about the TX3 suite of building access system panels. It introduces these systems, describes typical user and administrator sessions and presents the requirements on how to begin configuring each system for the entire TX3 suite.

Note: Mircom periodically updates panel firmware and software to add features and correct any minor inconsistencies. For information about the latest firmware or software visit the Mircom website at **www.mircom.com**.

This chapter explains

- Introducing the TX3 Suite
- TCP/IP Ports
- Administrator's Responsibilities
- Firmware and Software Compatibility
- About This Manual
- Contact Us

1.1 Introducing the TX3 Suite

The TX3 product suite consists of access control panels (Telephone Access, Card Access, and Touch Screen) and the TX3 Configurator software. The Telephone and Card Access Systems are the traditional keypad and card access type of entry systems.

The Mircom Touch Screen is part of the Mircom suite of products that provide building-ready monitoring, control and software management solutions for use in the high end multi-tenant residential market.

The Touch Screen system addresses the need within today's multi-tenant residential market for an easy-to-use tenant access system. Touch Screen creates an aesthetically pleasing high quality personalized communication system between residents and their visitors in a multi-unit dwelling establishment.

1.1.1 TX3 Configurator Software

The TX3 Configurator is a PC based user friendly graphical application that lets you configure the Telephone Access, Card Access and Touch Screen Systems.

A version of the Configurator software runs on 15 and 22 inch Touch Screens. This manual covers both versions of the software: the PC based Configurator and the Touch Screen Configurator.

This manual describes the operation and configuration for the following TX3 Telephone Access, Card Access, and Touch Screen Systems:

- TX3-120C-C (Paper directory telephone entry system)
- TX3-120U-C (Paper directory telephone entry system, universal series)
- TX3-200-8C-C (8x20 LCD Telephone Access Panel, 200 names)
- TX3-1000-8C-C (8x20 LCD Telephone Access Panel, 1000 names)
- TX3-2000-8C-C (8x20 LCD Telephone Access Panel, 2000 names)
- TX3-2000-8CR-C (Reinforced Eight Line Continental Electronic Scrolling Directory Lobby Control Unit)
- TX3-200-8U-C (8x20 LCD Telephone Access Panel, universal series, 200 names)
- TX3-1000-8U-C (8x20 LCD Telephone Access Panel, universal series, 1000 names)
- TX3-2000-8U-C (8x20 LCD Telephone Access Panel, universal series, 2000 names)
- TX3-2000-8UR-C (Reinforced Eight Line Universal Electronic Scrolling Directory Lobby Control Unit)
- TX3-200-4U-C (4x20 LCD Telephone Access Panel, 200 names)

- TX3-1000-4U-C (4x20 LCD Telephone Access Panel, 1000 names)
- TX3-2000-4U-C (4x20 LCD Telephone Access Panel, 2000 names)
- TX3-2000-4UR-C (Reinforced Slim Line Electronic Scrolling Directory Lobby Control Unit)
- TX3-CX-2(K)-A (Dual Card Reader)
- TX3-CX-1 and TX3-CX-1NP (Single Door Controller)
- TX3-ER-8 (Elevator Restriction Unit)
- TX3-ER-8-A/B (Elevator Restriction Unit)
- TX3-TOUCH-F15-C/D/E, TX3-TOUCH-S15-C/D/E (15 Inch Touch Screen Terminal)
- TX3-TOUCH-S15B-WR, TX3-TOUCH-S15S-WR, TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A (Weather-Resistant 15 Inch Touch Screen Terminal)
- TX3-TOUCH-F22-C/D/E/F and TX3-TOUCH-S22-C/D/E/F (22 inch Touch Screen Terminal)
- TX3-T10-S and TX3-T10-G (audio and video entry panel)

1.1.2 ADC and NSL Capability

Touch Screen and the Telephone Access System support full ADC and NSL telephone connectivity for a single panel or a networked system of panels. A single panel supports up to five ADC and/or NSL telephone lines.

An ADC connection requires a dedicated subscriber telephone line service connected to an outside telephone line. This connection lets the visitor call the tenant and access their voice mail.

An NSL type connection uses the existing building telephone lines for communication and does not require an outside telephone line. The NSL units intercept all telephone lines into the building's suites and communicate directly to the resident phone. This connection lets the visitor call the tenant and access their voice mail and call waiting.

1.1.3 Card Formats Supported by the Card Access System

- 26-bit Wiegand SIA
- 32-bit CSN
- 34-bit Awid
- 35-bit HID corporate 1000
- 35-bit Indala
- 36-bit HID Simplex
- 36-bit Keyscan C15001

- 37-bit Cansec
- 37-bit HID 10304
- 37-bit Mircom
- 39-bit Kantech XSF
- 50-bit RBH

1.1.4 Other Controllers

Mircom devices such as the Card Access Controller, the Lobby Control Unit, and the 15 and 22 inch Touch Screens can be networked with the TX3 system through a peer-to-peer RS-485 network, an Ethernet TCP/IP network, or a combination of Ethernet and RS-485 networks.

Note: The TX3-T10 can be connected to Ethernet only. See LT-6766 TX3-T10 Series Installation Manual for more details.

The TX3 Configurator software can connect to any of these network configurations. How you connect to the network (that is, through TCP/IP, USB, a modem, or the COM port) determines what devices you can configure on the network using the TX3 Configurator. The different network configurations are explained in the rest of this section.

Figure 1 shows a configuration with TX3 controllers connected on an RS-485 network. Each controller has to have a unique network address on the RS-485 network. Up to 63 unique network addresses can be assigned. If you connect to any device on the RS-485 network (using USB, a modem, or the COM port), you can also connect to and configure any other device on the RS-485 network using the TX3 Configurator.

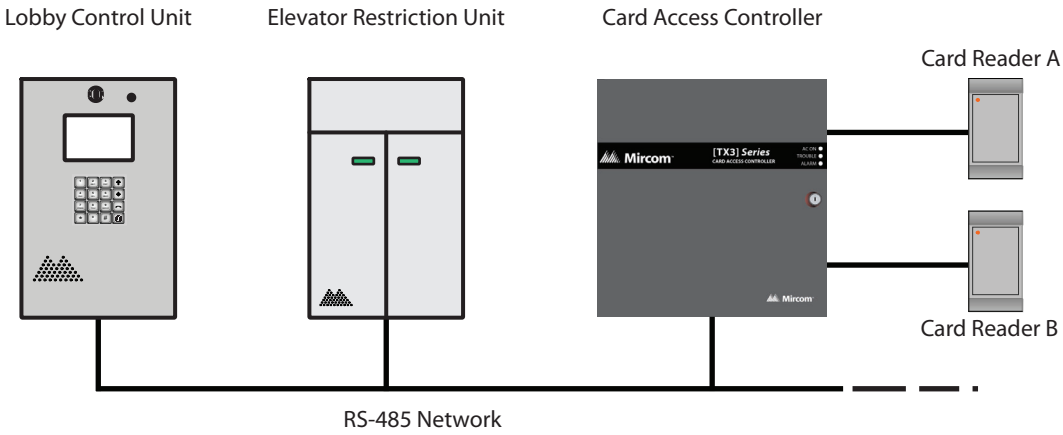

Figure 1. TX3 devices on an RS-485 network

Figure 2 shows a configuration with TX3 devices connected to an Ethernet TCP/IP network. This configuration removes the 63 device limitation that you have on an RS-485 network. The devices connected to an Ethernet TCP/IP network are called Main Nodes. If you connect to the TCP/IP network with the TX3 Configurator, you can connect to and configure any of the Main Nodes on the Ethernet TCP/IP network. If you connect directly to one of the Main Nodes using USB, a modem, or a COM port, you will be able to configure that device but not any other device.

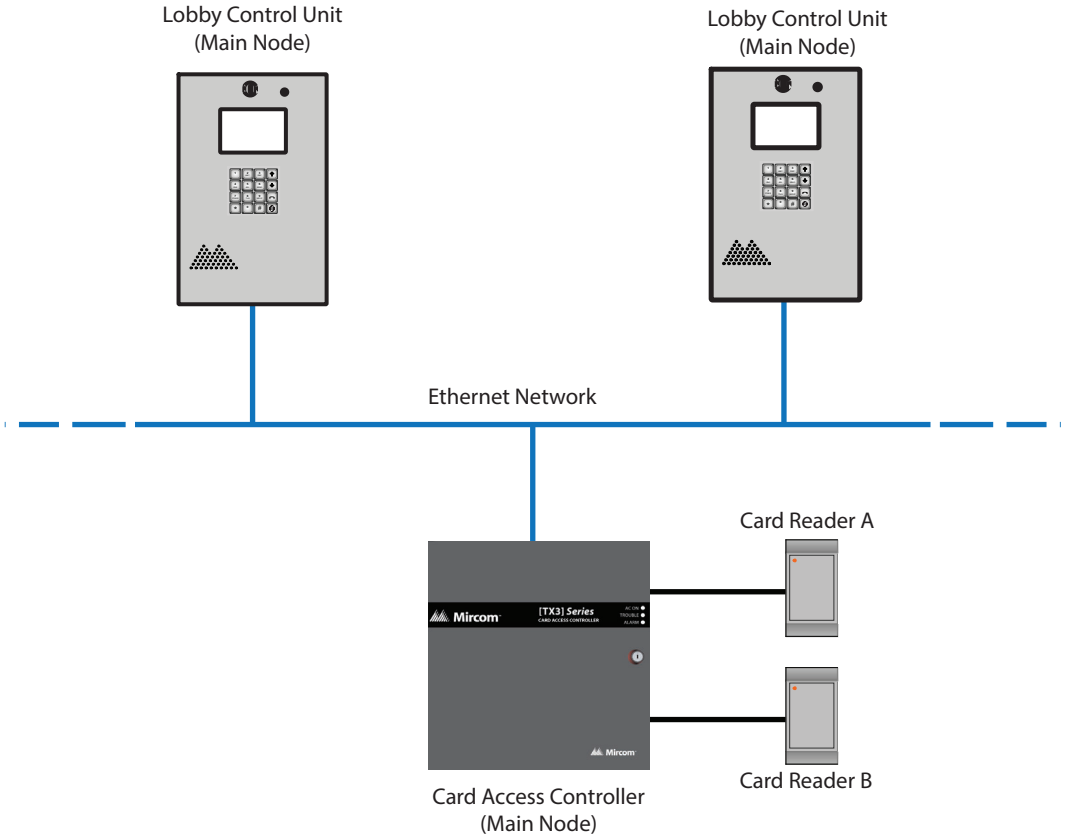

Figure 2. TX3 devices connected to an Ethernet TCP/IP network

Notes: In order for a panel to be a Main Node it must satisfy the following conditions.

- It must be IP capable. Panels that are IP capable are usually denoted by a letter such as **-C**, **-D**, **-E** or **-F** at the end of their model names.
- If the panel is not a Touch Screen, it must have a TX3-IP IP Module installed.

Figure 3 shows a configuration with TX3 devices connected on both an Ethernet TCP/IP network and on RS-485 subnetworks. Devices connected to a Main Node's RS-485 subnetwork are Secondary Nodes to the Main Node. Each RS-485 subnetwork can have up to 63 devices connected to it; you can still have more than 63 Main Nodes connected to the Ethernet network.

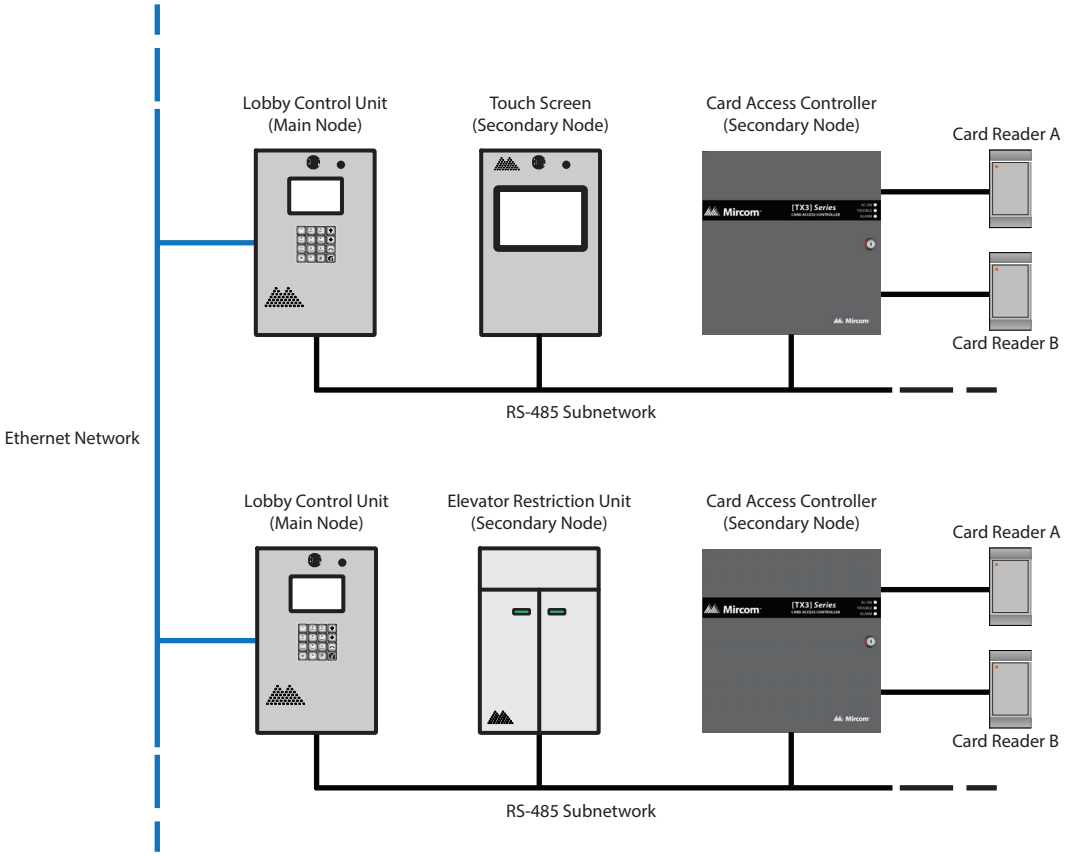

Figure 3. TX3 devices connected to a combination Ethernet TCP/IP network with RS-485 subnetworks

If you connect to the Ethernet TCP/IP network with the TX3 Configurator, you can configure any of the nodes in this configuration. If you connect directly to a device using USB, a modem, or a COM port, you will only be able to configure devices that are on the same RS-485 subnetwork as that device.

Note: There can only be **one** Main Node on an RS-485 subnetwork. That is, you cannot connect one RS-485 subnetwork to another RS-485 subnetwork. However, if you want to connect to a Touch Screen panel remotely over the Internet (for instance, to enable the advertising module), the Touch Screen panel must be set as a Main Node even if there is no Secondary panel connected to it.

1.2 TCP/IP Ports

Section 1.1.4 describes the options available for networking together more than one TX3 panel, which include TCP/IP networks. In order for your TX3 system to communicate over a TCP/IP network, the following ports **must** be available for the TX3 system.

Touch Screens: 8080

Non-Touch Screens:

- 14000
- 14001
- 14002
- 14003

If you are using a TCP/IP network and your TX3 system is not communicating properly, there may be another program on the network using ports 8080 or 14000-14003. In this case, configure the other program to use a different range of ports.

1.3 Administrator's Responsibilities

Warning! In order to keep the TX3 system secure, follow these precautions:

Change the default password on the Touch Screen to prevent strangers from accessing the configuration. See section 2.6 for 22 and 15 inch Touch Screens, and see section 12.1 for TX3-T10.

Perform a virus scan on all picture and video files before importing them into the Touch Screen.

Secure the TCP/IP network to prevent unauthorized access to the Touch Screen.

Do not forward the Remote Desktop port of the Touch Screen to the Internet.

The software lets you configure and monitor activities of all controllers connected to the TX3 network. The administrator is responsible for the configuration of the TX3 system, Touch Screen, Configurator and all of the related components.

When logged in as an administrator all of the following configurable functions are available:

- User interface appearance

- Advertisement content
- Support for panel functionality with the capability to interface to other devices - the software fully integrates with the TX3 line of products

The administrator accesses the administrator mode from the TX3 Configurator software and has full rights to every function within the software. The administrator performs many of the administrative tasks required for installing and managing the software, including assigning permissions for each level of user. Touch Screen personalization depends on preferences defined by the building management. Additional responsibilities may be provided by the building manager.

The Configurator software has five password protected user levels. The system administrator accesses and configures all panels and devices connected to the panels, and sets up user levels. Users are limited to specific responsibilities such as adding or removing resident names or defining schedules.

The administrator is responsible for:

- modifying user interface appearance
- providing advertisement content
- adding new tenants
- system configuration
- monitoring the operational health of the system
- assigning user privileges

1.4 Firmware and Software Compatibility

- The job can have a mix of panels with 3.4.x and 2.4.x versions of firmware as long as the Configurator is 2.8.13 or higher. (Firmware versions 3.4.x and 2.4.x introduced floor groups.)
- A panel with version 3.5.x is compatible with other panels with version 3.5.x as long as the Configurator is version 2.9.11 or higher. (Firmware version 3.5.x introduced enhanced correlations.)
- If the job has a card access panel with version 3.6.x, then the other panels can have either version 3.6.x or version 3.5.x as long as the Configurator is version 2.10.3 or higher. (Firmware version 3.6.x introduced custom card formats.)
- If the job has no Elevator Restriction Units, then it can have a mix of versions 3.7.x, 3.6.x, and 3.5.x, as long as the Configurator is version 2.12.12 or higher.
- If the job has Elevator Restriction Units, and one panel in the job has version 3.7.x or higher, then all panels in the job must have version 3.7.x or higher, and the Configurator must be version 2.12.12 or higher.
- TX3-ER-8-A can be upgraded to 3.7.x firmware, but ERU 2.0 features such as schedules are not available.

1.5 About This Manual

This manual provides comprehensive information on the use of the TX3 Configurator by the administrator and explains how you may add additional components and modify and delete existing ones.

This manual assumes that all TX3 system components are setup and operational.

Sections 1 to 2 provide general information about the TX3 systems.

Sections 3 to 13 provide comprehensive information on the use of the Touch Screen and Configurator software.

1.5.1 Additional Documentation

For additional documentation, see the following Mircom literature:

- LT-973 Configurator Quick Start
- LT-968 TX3 Telephone Access System User's Guide
- LT-969 TX3 Telephone Access System Installation and Operation Manual
- LT-996 TX3 Touch Screen Installation Manual
- LT-6906 UL Listed TX3-CX Card Access System Installation Manual
- LT-6618 TX3-CX-1 Installation Manual
- LT-5997 TX3-CX-1NP Installation Manual
- LT-9940 TX3 Elevator Restriction Installation Manual
- LT-6616 Elevator Restriction Migration for Firmware Version 3
- LT-6615 Elevator Restriction Migration for Firmware Version 2
- LT-600213 IP Telephony Guide
- LT-6638 MiEntry Manual
- LT-6082 Unified Building Solution Administration Guide
- LT-1194 TX3 Nano Configuration Manual
- LT-6766 TX3-T10 Series Installation Manual
- LT-6767 TX3-T10 Series User Manual

1.6 Contact Us

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1.6.3 Website

http://www.mircom.com

2 Getting Started

This chapter explains

- PC System Requirements
- Installation
- Log into the TX3 Configurator in Administrator Mode
- Change the Language
- Main Window Components
- Change the Touch Screen Administrator Password (15 and 22 Inch Touch Screens)
- Change the PC Configurator Password
- Reset your Password
- Assign Configurator User Privileges
- Job Tree
- Configure a Job
- Import Residents and Cards
- Upgrade Firmware
- Log into the Touch Screen Terminal (15 and 22 Inch Touch Screens)
- Save Touch Screen Log Files
- Upgrade the Touch Screen Software on 15 and 22 Inch Touch Screens
- Shut Down the TX3 Touch Screen

2.1 PC System Requirements

For the PC based Configurator version 2.10.3 and higher, the minimum system requirements are:

- Windows 10 Pro (32-bit and 64-bit)
- Windows 10 Home (64-bit)
- Windows Server 2016 (64-bit)
- Windows 8.1 Pro (64-bit)
- Windows 7 Pro (32-bit and 64-bit)
- 1 GB RAM
- 1.8 GHz CPU
- 600 MB disk space
- 1 USB port

2.2 Installation

Install the Configurator

1. From the USB flash drive root directory run **TX3-Config** and follow the instructions.

   The **TX3 Configurator** icon appears on the desktop.

2.3 Log into the TX3 Configurator in Administrator Mode

The PC connects to the Telephone Access and Card Access Systems with one of the following methods:

- A USB cable from the computer to the TX3 controller board
- An Ethernet TCP/IP connection (the controller must have an IP module if it is not a Touch Screen). This is the only method supported by the TX3-T10
- A modem connection (the controller must have a modem module)

As an alternative, the PC also connects to the controller board modem. The TX3 system is compatible with the following modems.

- TrendNet TFM-560U High Speed USB 2.0 Fax Modem
- TrendNet TFM-561U High Speed USB 2.0 Fax Modem

- Hiro H50113 56K V.92 USB Fax Modem
- StarTech USB56KEM2 56k V.92 USB Fax Modem
- Zoom 56K V.92 56K USB Mini External Fax Modem
- USRobotics USR5639 56K USB Softmodem

See section 5 for a description of the Telephone Access System and section 7 for a description of the Card Access System.

Log in to a controller

1. Establish a connection from the PC to the controller using one of the following methods:

   - A USB connection
   - COM port connection
   - A modem connection
   - A connection to the controller's Ethernet TCP/IP network (This is the only method supported by the TX3-T10)

2. Double click the TX3 Configurator icon.

   The administrator access code window appears.

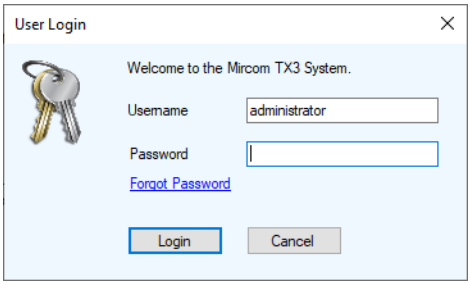


Figure 4. User Login window

3. Enter your username and password to log in to the system and click **Login** (by default the user name is administrator and with no password).

   If you forgot your password, see section 2.8.

4. The Main Window appears.

5. Proceed with the rest of the configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

2.4 Change the Language

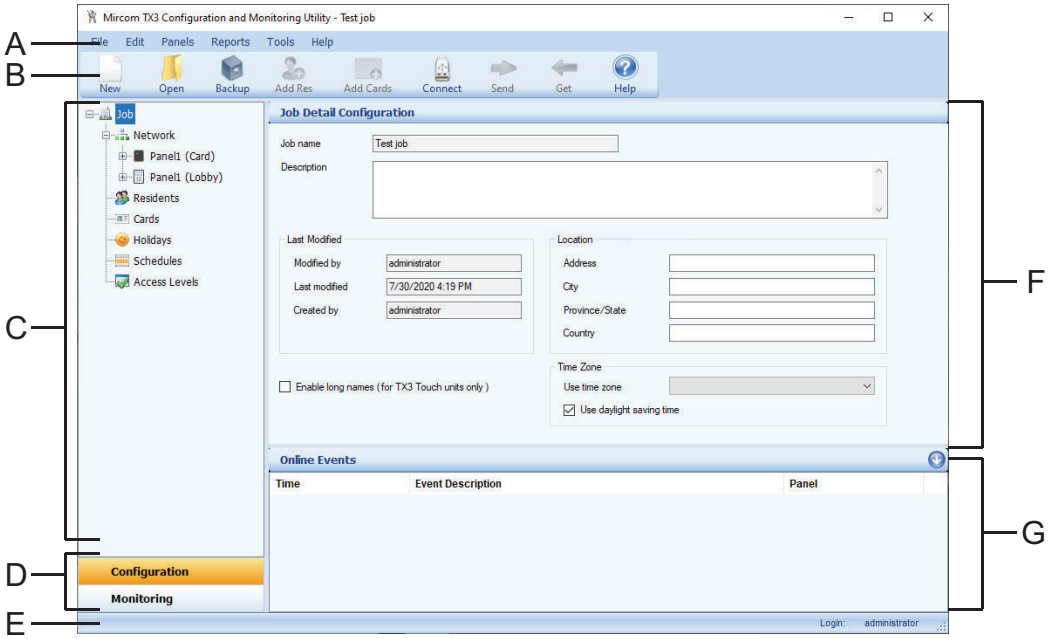
1. Click **Tools** then click **Select Language**.
2. In the Select Language window, choose the new language, then click **OK**.
3. Click **Yes**.

   The TX3 Configurator restarts.

2.5 Main Window Components

The Configurator Main Window lets you access all configurable functions and consists of the following major areas:

A. Menu Bar
B. Tool Bar
C. Left Pane
D. Mode Selection
E. Right Pane
F. Status Bar
G. Lower Pane



***A.** Menu Bar **B.** Tool Bar **C.** Left Pane **D.** Mode Selection **E.** Status Bar **F.** Right Pane **G.** Lower Pane*

Figure 5. Main Window Administrator Workspace

2.5.1 Menu Bar

The Menu Bar lets you access all major Configurator features and consists of the following six menus:

File Menu

The File Menu lets you setup and define Jobs using the following commands:

New Job. Creates a new Job by selecting a template, copying a current Job or reading panels from the network. From the template you can select the basic Touch Screen, Telephone Access or Card Access system.

Open Job. Opens or deletes an existing Job from the database.

Validate Job. Checks if the current Job has any configuration errors. This operation is done automatically before a Job is sent to the panels.

Backup. Defines the location of the backup folder for a Job. The Backup button in the Tool Bar uses this location for backing up files.

Restore. Restores user specified Jobs from a folder.

Import. Imports a spreadsheet of names or cards.

Exit. (PC Configurator only) Exits the application.

Send and Exit. (Touch Screen Configurator only) Sends the Job to the TX3 Unit and exits out from the Configurator.

Exit without Send. (Touch Screen Configurator only) Does not send any changes made to the Job and exits out from the Configurator.

Shut Down. (Touch Screen Configurator only)

- **Shut Down.** Exits from the Configurator and shuts down the entire TX3 Unit
- **Restart.** Logs out the current user and restarts the PC.
- **Exit to Windows**. Closes the TX3 software and exits to the Windows environment.

Edit Menu

The Edit menu lets you add, edit and delete panels and components using the following commands:

Add Panel. Adds panels to the network.

Add Residents. Adds one or more residents to the Job.

Add Cards. Adds one or more cards to the Job.

Edit Residents. Edits the currently selected residents.

Edit Cards. Edits the currently selected cards.

Delete. Deletes the currently selected items. It could be a panel item on the Job tree, a resident record, or a card record.

Panels Menu

The Panels menu lets you activate panel functionality using the following commands:

Connect. Connects to the communication port specified on the Network View as well as establish connections with the panels currently configured on the network.

Send Job. Sends the current Job to all panels currently configured on the network.

Get Job. Gets the Jobs from all panels currently configured on the network.

Firmware Upgrade. (PC Configurator only) Upgrades the firmware of the selected panel.

Network Firmware Upgrade. Upgrades the firmware of multiple panels connected in a network from a connection to any panel on that network.

Reports Menu

The Reports menu lets you generate reports on events, residents and access cards using the following commands:

Event Log. Generates an event log report from the database. This report shows in a preview window and can be printed or exported to files in either Excel or PDF format.

Residents. Generates a resident report from the database. This report shows in a preview window and can be printed or exported to files in either Excel or PDF format.

Access Cards. Generates an access card report from the database. This report shows in a preview window and can be printed or exported to files in either Excel or PDF format.

Advertising Report. (Touch Screen Configurator only) Generates an advertising report from the database. This report can be previewed, printed or exported to either Excel or PDF formats.

Paper Directory Report. You can print a paper directory that you can display on a panel (for instance TX3-120C-C).

Tools Menu

Tools menu lets you change passwords and set user privileges using the following commands:

Change Password. This option allows the user to change the password for the current user.

User Management. This menu item is available only on the Configurator software to users who have the User Administration access right. Selecting it launches the User Management dialog. Use this dialog to add or remove system users, reset their passwords, and modify access rights. A system user is the person who uses this software application, not a resident or card holder.

IP Change Tool. See section 3.2.

Alert Setup. (PC Configurator only) See section 12.2.

Firmware Upgrade Wizard. See section 2.13.2.

Select Language. Allows you to change the language of the Configurator.

Help Menu

Help menu provides you with information about the Configurator using the following commands:

Help Topics. Displays the help content. Pressing the F1 key displays context sensitive help.

Purchase Advertising Module. (Touch Screen Configurator only) To activate the advertising module select this option. For more information refer to section 4.6.

About. Displays the About box of the software. The about box displays information such as version number of the software and copyright notice.

2.5.2 Tool Bar

A list of ten buttons are available below the Menu Bar for quick access.

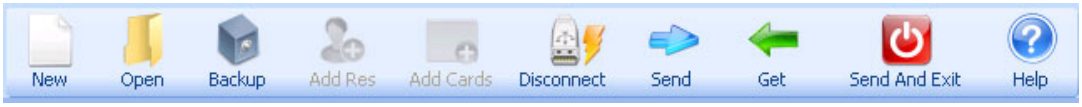


Figure 6. Tool Bar

New. Opens the Create New Job Form to create a new Job.

Open. Opens or deletes an existing Job from the database.

Backup. Backs up the current Job to a file in the pre-defined backup folder. The backup folder location is defined in the Backup File Menu in the Menu Bar.

Add Residents. Opens the Add Residents Form to add one or more resident records to the system.

Add Cards. Add Cards lets you add one or more cards to the system

Connect. Connects to the panels on the network.

Send. Sends the current Job to the panels on the network.

Get. Retrieves the Job from panels on the network.

Send and Exit. Saves the system information and sends it to the panel, and exists from the configuration mode to display the Touch Screen user interface. This button is available only on the Touch Screen Configurator software.

Help. Opens help file.

2.5.3 Left Pane and Mode Selection

The Left Pane displays the currently selected function from one of the following:

- Configuration
- Monitoring

2.5.4 Right Pane

The Right Pane displays the view associated with the selected Job tree item.

2.5.5 Lower Pane Online Events

The Lower Pane online events displays all events received by the software. Events may be initiated by the panels or by the software. Only user activity is logged to the event log.

The view has the following columns:

Time. Time stamp of the event.

Event Description. Description of the event.

Panel. Panel name this event applies to.

2.5.6 Status Bar

The Status Bar displays status information such as the operation progress and username.

2.6 Change the Touch Screen Administrator Password (15 and 22 Inch Touch Screens)

The Touch Screen administrator password lets you access the Touch Screen configuration if required, and prevents others from making changes to the Touch Screen. By default this password is blank.

Note: With Touch Screen Configurator software 2.9.10 and above, when you change the Touch Screen administrator password, the system uses the same password for Remote Desktop (section 4.2).

Change the Touch Screen administrator password

Note: Whenever you change the Touch Screen administrator password on a Touch Screen Main Node, you must make the same change to **Admin Password** for that Touch Screen Main Node in the PC TX3 Configurator. See section 4.7.5.

1. Log in as administrator at the Touch Screen either at the Touch Screen terminal (section 2.14) or by using Remote Desktop (section 4.9).
2. Select **Tools > Change Password**.

The Change User Password window appears.

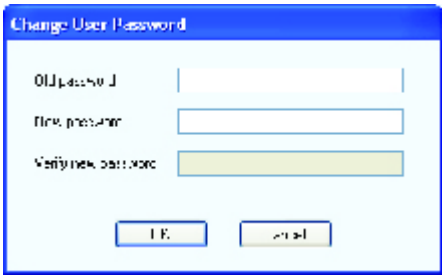


Figure 7. Change User Password

3. Enter your old password into the **Old password** text box. If you have not changed the password before, then leave this box empty (there is no default password).
4. Enter a password of 16 characters or less into the **New password** text box.
5. Enter the same password into the **Verify new password** text box.
6. Click **OK**.

2.7 Change the PC Configurator Password

You can create multiple user accounts with different privileges for the TX3 Configurator (see section 2.9). The name of the current user appears in the lower right corner of the Configurator window.

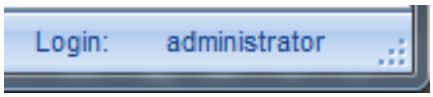


Figure 8. Lower right corner of Configurator window showing current user

Note: This password is not the same as the Touch Screen administrator password (section 2.6).

Change the password for the current user in the TX3 Configurator

1. In the TX3 Configurator, select **Tools > Change Password**.

The Change User Password window appears.

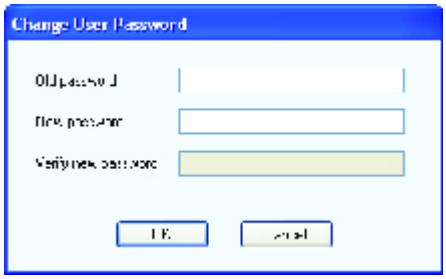


Figure 9. Change User Password

2. Type your old password into the **Old password** text box.
3. Type a password of 16 characters or less into the **New password** text box.
4. Type the same password into the **Verify new password** text box.
5. Click **OK**.

2.8 Reset your Password

1. On the User Login window, click **Forgot Password**.

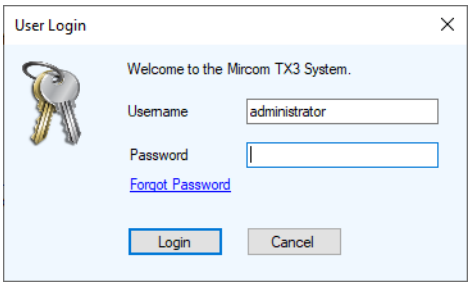


Figure 10. User Login window

The Forgot Password window appears.

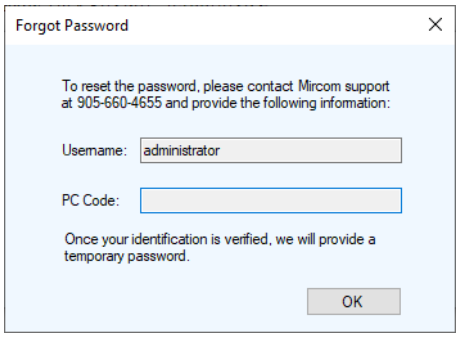


Figure 11. Forgot Password

2. Contact Mircom Support and provide the information shown. Mircom Support will give you a temporary password. This password is valid only for the day on which it is generated. You can log in with this temporary password, and then change your password.

2.9 Assign Configurator User Privileges

Assigning User Privileges is a Configurator feature that lets you define different user levels. Once users are defined, system administrators can further organize them to effectively manage the building.

The system administrator assigns privileges to a particular subordinating level of user using the User Management window. Only the system administrator is able to set user levels, add or remove various system users, reset their passwords and modify access rights.

The various user levels consist of the following:

Operator. An operator has read access only. An operator can monitor live events and accept access point requests.

User. A user has all of the rights of the operator plus additional reading and writing card and resident records privileges.

Advanced User. An advanced user has all of the rights of user plus the ability to read and write schedules, holidays and access levels.

Manager. A manager has all of the rights of an advanced user plus user management privileges.

System Administrator. The system administrator can access and configure all panels and devices connected to the panels, and set up security levels.

Note: When logging in to a particular user level, only information relevant to your assigned role will be available.

Assign a user

1. From the Menu Bar click **Tools > User Management**.

   The User Management window appears.

Figure 12. User Management Window

2. Enter a **User name** and **Password** for the user.
3. Click **Active** to enable access rights for the user.
4. Select a user level from the **User Level** drop down list.
5. Click **OK** to save the information and return to the previous window, or click **Cancel** to exit without saving the changes.

2.10 Job Tree

The Job tree lists all networked components, such the Telephone Access and Card Access Systems, and provides a list of options to let you add, modify and delete these configurable components and their characteristics. Job is the industry-standard term for this type of system.

The Configurator uses a centralized approach to continuously assess the state of every panel and connected components. This avoids the need for continuous administrator supervision and facilitates the task of complex configuration of every system component. The Job tree further simplifies configuration by providing an overview of the system by listing each configurable item.

Start the configuration by getting familiar with all of the existing networked components. Selecting a Job tree node displays its corresponding details on the Right Pane.

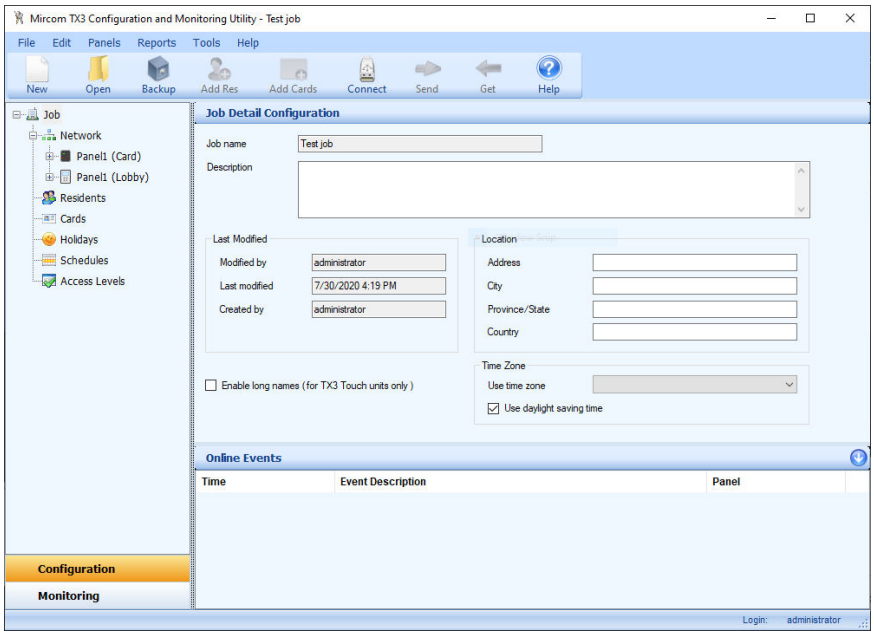


Figure 13. Job Tree

2.10.1 Job Tree Elements

When Telephone Access and Card Access Systems are on the network, the Job tree contains the following elements:

Note: Right clicking anywhere in the Left Pane lets you add, delete or send configuration changes to a single panel.

Job. Displays the Job Detail Configuration view. A Job consists of networks and their components, such as Telephone Access Systems and Card Access Systems.

Network. Displays the Network Configuration view and consists of networked components, such as Telephone Access Systems and Card Access Systems. All connected panels are listed by their network address.

Panel. Displays the Panel Configuration view.

Panel/Access Points. When card access panels are added to the Job file, the panel access points and card readers are displayed.

Panel/Inputs Outputs. Displays the input and output points of the panel. Inputs and outputs are labelled, assigned and defined.

Panel/Correlations. Displays the panel Correlation view. Correlations let you establish an action with an event.

Residents. Displays the Resident List view. Adding a Telephone Access System panel for the first time to the network establishes the Resident List view.

Cards. Displays the Card List view. Adding a card access panel for the first time to the network establishes the Card List view.

Access Levels. Displays the Access Levels view. Adding a card access panel for the first time to the network establishes the Access Levels view.

Schedules. Displays the system and user defined timetables.

Holidays. Displays the Holiday schedules.

2.11 Configure a Job

The Configurator lets you change panel and device properties. Configure items individually or sequentially by going through each item from the top to the bottom of the Job tree.

Configured Jobs may be manually validated for any errors, or automatically validated when sending a Job to the panels.

Configuration information can be sent to individual or multiple panels.

Selecting an item displays that item's properties in the Right Pane.

By default the Configurator displays the most recently opened Job and network configuration.

2.11.1 Create a New Job

Creating a new Job may be done by directly adding components, by making modifications to templates or by using information read from the network.

Create a new Job

1. Select **File/New Job** from the Menu Bar or **New** from the Tool bar. The **Create New Job** window appears.

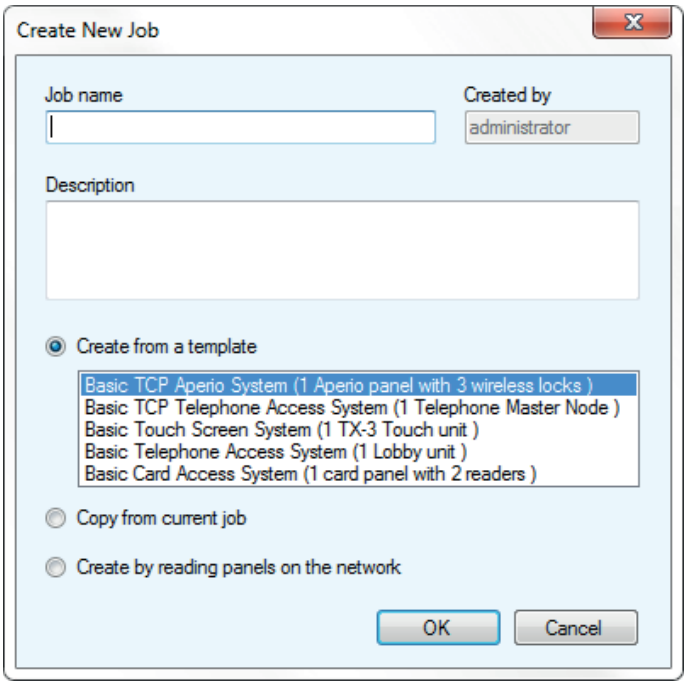


Figure 14. Create New Job

2. Enter the following parameters about the Job:

   Job name. Enter the Job name. This entry must be unique.

   Description. Provide a description about the Job. This field is mandatory.

   Created by. This field is read only and is set to the user when they log in.

   Create from a template. Select from an existing template. From this template you may add or modify components.

   Copy from current Job. Select this option to copy information from the current Job. From the copy you may add or modify components.

   Create by reading panels on the network. Select this option to have the Configurator automatically retrieve information from all of the networked panels and components. To use this option you must be connected to the network.

3. Click **OK** to create the new Job and return to the configuration window, or click **Cancel** to exit without saving the changes.

Provide details about Job modifications

1. Select **Job** from the Left Pane. The Job Details appears on the Right Pane.

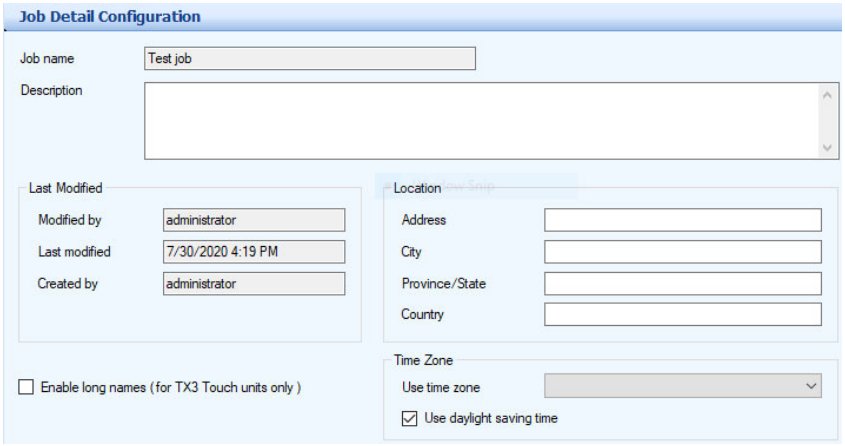


Figure 15. Job Detail Configuration

2. Provide a description about the Job in the **Description** text area.
3. If you have the Configurator version 2.0.0 or later, select **Enable long names** to allow TX3 Touch Screens to display names up to 60 characters long.
4. Enter a location for the job under **Location**.
5. Under **Time Zone**, select your time zone and select **Use daylight saving time** if necessary. When you send the job to the panels, the panels' clocks will be adjusted according to this time zone.

Note: If the job has **Enable long names** selected (see section 2.11.1), then the names are shortened to the first 15 characters when you get the job. If you want to preserve the long names, do not use **Get Job**.

2.11.2 Open an Existing Job

You may open a stored Job and can change existing configurations. These changes are immediately saved to the database.

Open an existing Job

1. To open an existing Job, select **File/Open Job** from the Menu Bar. The **Open Job** window appears.

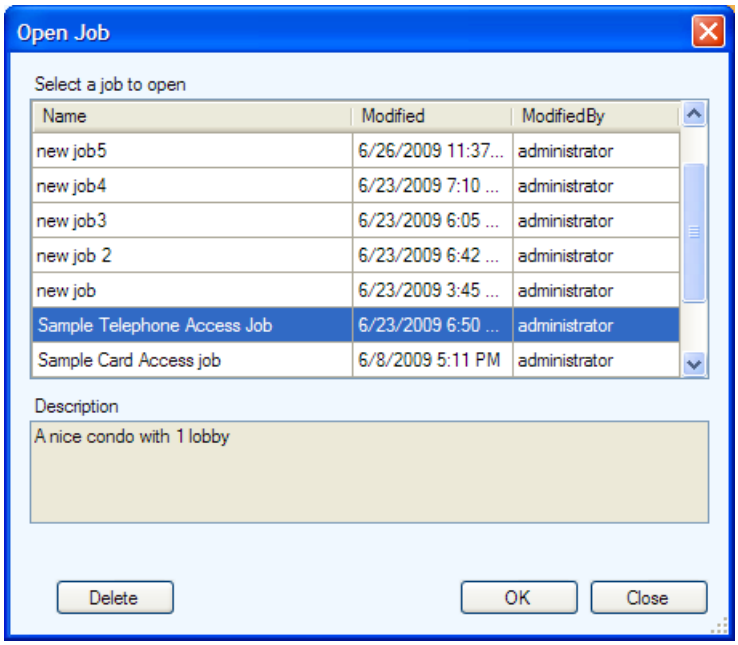


Figure 16. Open Job

2. Select a Job and click **OK,** or click **Close** to exit without saving the changes.

Delete an existing Job

1. To delete a Job permanently from the database, select the Job from the list and click **Delete**. A confirmation window appears.

2. Click **Yes** to confirm the deletion or **No** to exit and return to the previous window.

2.11.3 Back up a Job

To backup a Job you must first define the location of the backup folder. You may back up Jobs and event logs to this folder. Backup files have the extension **.t3**.

Back up a Job

1. Select **File/Backup** from the Menu Bar.

The Backup Jobs window appears.

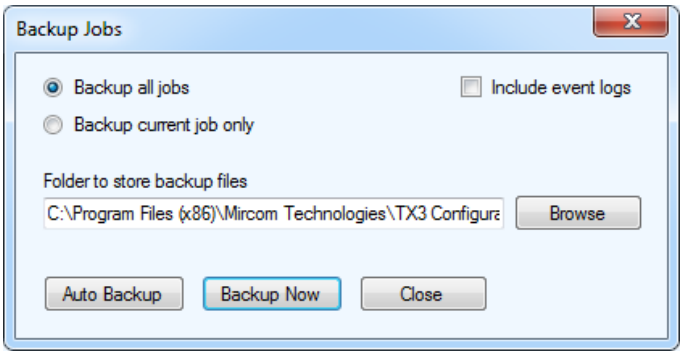


Figure 17. Backup Jobs

2. Enter the following parameters about the Job:

   Backup all jobs. Select this option to back up all Jobs in the database to the backup folder.

   Backup current Job only. Select this option to back up only the current Job to the backup folder.

   Include event logs. Select this option if the event logs are to be backed up as well.

   Folder to store backup files. Select a folder to store the backup files.

3. Click **Backup Now** to back up all jobs or the current job, depending on which option you selected.

Set up an automatic backup

If you enable automatic backups, the Configurator automatically backs up all jobs ever day at the time that you specify. The backups are deleted after the number of days that you specify.

Note: Automatic backups are saved in the same directory that the Configurator is installed in. By default the location is: **C:\Program Files (x86)\Mircom Technologies\TX3 Configurator\Backup**
This location cannot be changed.

1. Select **File/Backup** from the Menu Bar.

2. Click **Auto Backup** to set up an automatic backup.

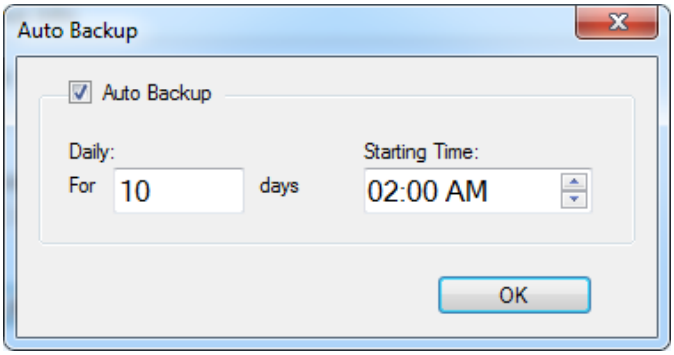


Figure 18. Auto Backup

3. Enter the following parameters:

   Auto Backup. Select this option to enable an automatic backup.

   Daily. Select the number of days that the backup will be stored for. For example, if you select **10**, then the Configurator keeps back ups for the past 10 days. Backups older than 10 days are deleted.

   Starting Time. Specify the time of day when the Configurator should make the backup.

4. Click **OK**.

2.11.4 Restore a Job

You can restore previously saved Jobs.

Restore jobs

1. Disconnect from the network and select **File/Restore** from the Menu Bar. The Job Restore window appears.

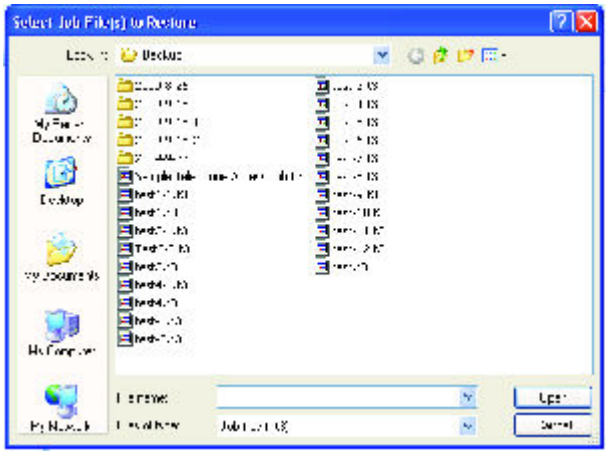


Figure 19. Select Job File to Restore

2. Select one or more backup files to restore. Backup files have the **.t3** extension.

Note: Restore will overwrite open Jobs with the same name. Consequently, saving this Job will overwrite the Job with the same name in the database.

The main Job file has the extension **.t3**, and other associated files have the extension **.tx3**. These **.tx3** files must be in the same folder as the **.t3** file.

---

3. Click **Open** to restore the Job or **Cancel** to exit and return to the previous window.

2.11.5 Validate a Job

The Configurator automatically validates a Job when it is sent to the panels, but you have the option to manually validate a Job before sending it to the panels.

Validate a Job

1. Click **File > Validate Job**. If there are any errors, an error message will appear.

2. If there are no errors, click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

2.11.6 Send Jobs to Panels

There are two ways to send a Job to a panel. Once panel connectivity is established, you can send the current Job configuration to an individual panel by clicking **Send to Single Panel** or to all panels by clicking **Send Job to Panels**.

To reduce programming time, the Configurator determines the minimal set of configuration changes to send. Sending a Job to all panels only sends the individual changes. For example, modifying a resident record sends only that record to the panel.

Sending a Job to a single panel sends all of the configuration information to that panel including any modifications.

The Configurator does not send the entire configuration to a panel unless:

- the user has modified the configuration from the front panel or
- a new panel is added to the Job

Send to all panels

1. Click **Send** from the Menu Bar.

2. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Send to a single panel

1. Right click on a panel in the Job tree and select **Send to Single Panel**.

2. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

2.11.7 Get a Job

When retrieving a Job, the Job tree reads information directly from the panels currently connected to the network and adds panels to the Job automatically.

Panels do not store the user profile information. In these cases panels use default information. For a description of user profiles see section 8 and section 7.7.

Get a Job

Note: If the job has **Enable long names** selected (see section 2.11.1), then the names are shortened to the first 15 characters when you get the job. If you want to preserve the long names, do not use **Get Job**.

Note: After you get a job, residents' email addresses will be blank. If you want to preserve email addresses, do not use **Get Job**.

1. Select **Get** from the Tool Bar. The Get Job from Panels window appears.

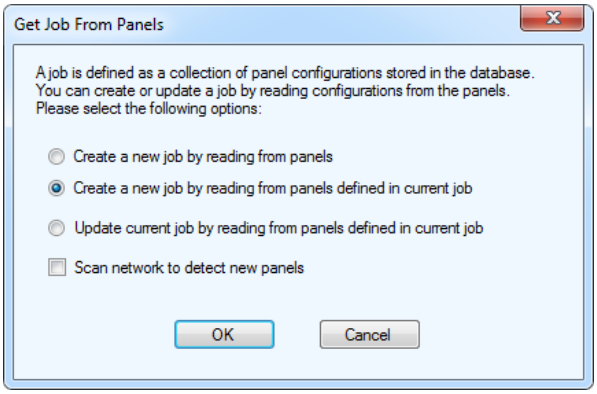


Figure 20. Get Job From Panel

2. Select the following parameters:

   Create a new job by reading from panels. Scans the network for panels and uses their configuration information to create a new Job. The **Scan network to detect new panels** check box is automatically checked.

   Create a new job by reading from panels defined in current job. Copies the current Job and creates a new Job based on the existing Job. If **Scan network to detect new panels** is checked, new panels information is also retrieved.

   Update current job by reading from panels defined in current job. Overwrites the existing information with the retrieved panel information.

   Scan network to detect new panels. If selected the software scans the network for any new panels and reads their configurations.

3. Click **OK**.

2.12 Import Residents and Cards

You can import resident and card information from a JSON file or a Microsoft Excel (version 97 and above) spreadsheet. The file can contain resident information, card information, or both.

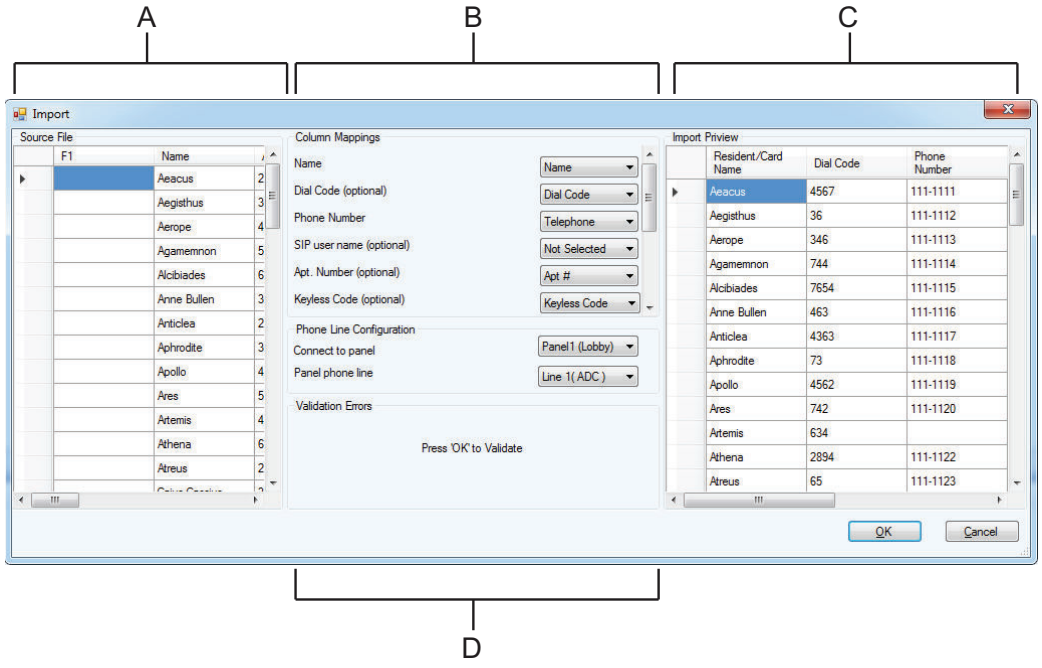
Note: The first row in the spreadsheet must be the row header. Delete any blank rows above the header.

In order to import residents, the job must contain at least one telephone access panel. In order to import cards, the job must contain at least one card access panel.

Import residents and cards

1. Click **File**, then click **Import**.
2. Navigate to the Excel or JSON file that you want to import, then click **OK**.

   The **Import** window appears.



A. *Source File* ***B.*** *Column Mappings* ***C.*** *Import Preview* ***D.*** *Validation Errors*

Figure 21. Import

The left pane shows the source file. The middle pane shows the column mappings, and the right pane shows how the data will be structured after it is imported.

3. In the **Column Mappings** pane, click the menu beside each category, and select the column in the spreadsheet that contains the data for that category.

   For example, if the phone numbers are in a column called **Telephone**, then select **Telephone** in the menu beside **Phone Number**.

4. After you have associated the columns in the spreadsheet with the correct categories, click **OK**.

   The card and resident information is imported.

   Errors appear in at the bottom of the middle pane, in the section labelled **Validation Errors**. Cells containing errors are highlighted in the right pane.

Correct errors

1. Move the mouse over the highlighted cell in the right pane to see the details of the error.
2. Click the highlighted cell, then enter the correct information.
3. Click **OK**.

2.13 Upgrade Firmware

There are 2 ways to upgrade firmware:

- Use the Firmware Upgrade Wizard (section 2.13.2) to install firmware on 1 panel over USB. Use this method if the firmware is corrupted.

Note: The Firmware Upgrade Wizard does not upgrade firmware on the TX3-T10. Use the Network Firmware Upgrade instead, or see LT-6767 TX3-T10 Series User Manual for other options.

  - Use the boot loader firmware file with the Firmware Upgrade Wizard. The boot loader version has **BL** in the file name, for instance **TX3_IP_CA_BL_v3-4-15.bin**.

- Use the Network Firmware Upgrade (section 2.13.4) to upgrade many panels on the same network at once.

- Use the firmware files without **BL** in the file names with the Network Firmware Upgrade.
- At least one panel on the network must have firmware version 2.0.0 or higher installed.
- The new firmware files must be version 2.0.0 or higher.

2.13.1 Back up the Job before Upgrading the Firmware

The firmware version number consists of three digits, for instance **3.1.26**. The first digit (3 in this case) is the major revision, and the second digit (1 in this case) is the minor revision. When the major or minor revision changes (for instance 3.1.26 to 3.4.0), then the configuration is deleted on all the panels that are upgraded. For this reason, back up the job before upgrading the firmware.

2.13.2 Firmware Upgrade Wizard

Use the Firmware Upgrade Wizard to install firmware on 1 panel over USB.

Go to the Mircom web site for the latest firmware.

Note: **The Firmware Upgrade Wizard does not work with TX3-CX-1, TX3-CX-1NP, and TX3-T10.** Instead, use the Network Firmware Upgrade in section 2.13.4.

Ensure the USB cable is directly connected to the USB port on the controller.

Upgrade the firmware with the Firmware Upgrade Wizard

1. Click **Connect** on the Tool Bar to connect to the panel, then click `Get` on the Tool Bar to get the Job.
2. Click the **Disconnect** icon in the Tool Bar.

   The Configurator is disconnected from the panel.
3. Click **Tools/Firmware Upgrade Wizard** from the Menu Bar.

The Firmware Upgrade Wizard window appears.

Figure 22. Firmware Upgrade Wizard

4. Browse to the firmware file and select it.

Note: The firmware file must be the boot loader version. The boot loader version has **BL** in the file name, for instance **TX3_IP_CA_BL_v3-4-15.bin**.

5. Click **Next**.

6. Follow the instructions in the Firmware Upgrade Wizard window.

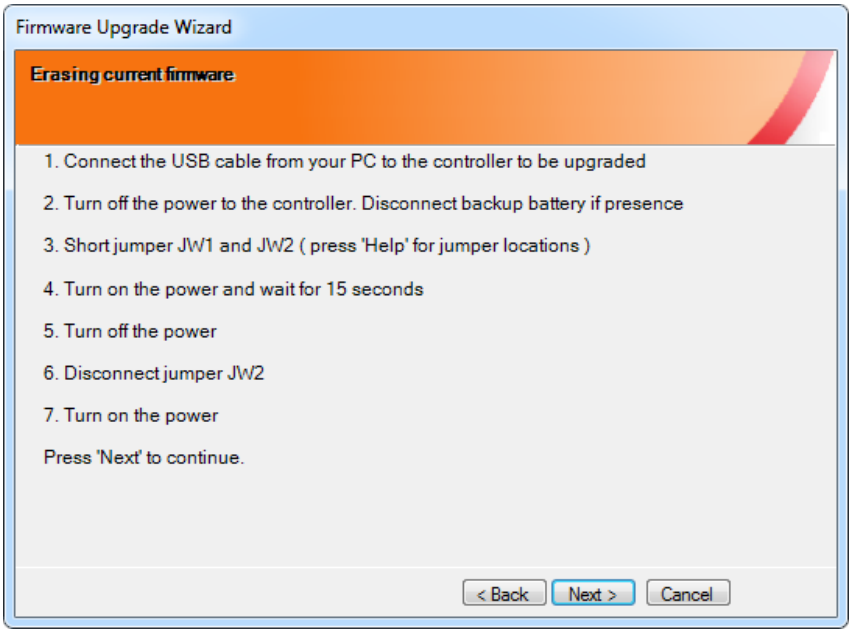


Figure 23. Firmware Upgrade - Erasing Current firmware

7. Complete the procedure and click **Next**. The Program new firmware window appears.

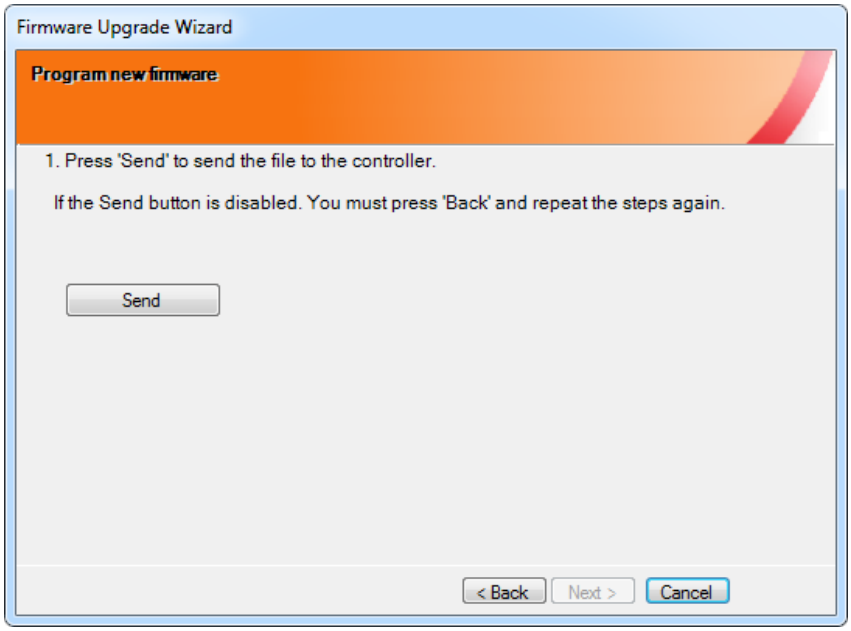


Figure 24. Firmware Upgrade - Program new firmware

8. Click **Send** to send the firmware to the panel.

9. Click **Next** to complete the upgrade.

10. Follow the instructions in the Firmware Upgrade Wizard window.

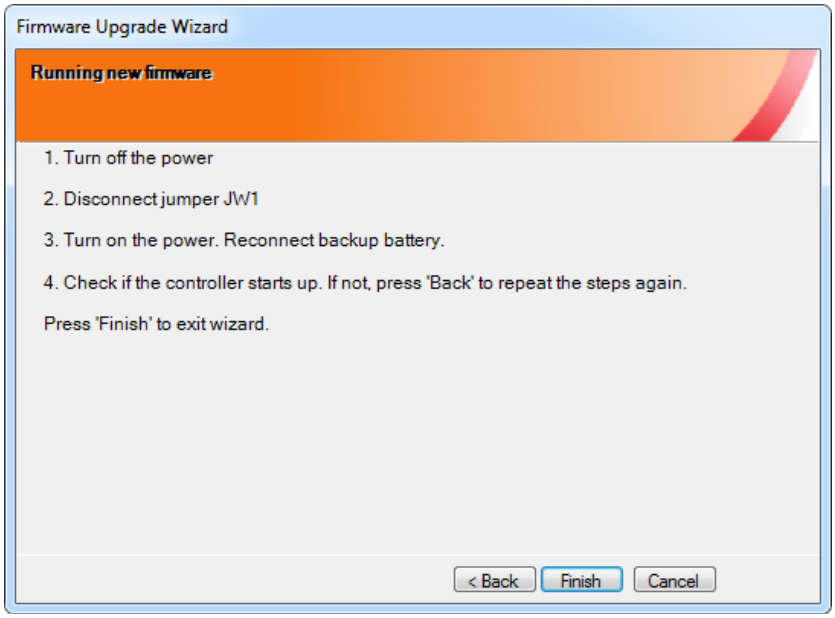


Figure 25. Firmware Upgrade - Running new firmware

11. Disconnect the USB cable from the controller and connect it again.

12. Click **Connect** on the Tool Bar to connect to the panel.

13. Click **Send** on the Tool Bar to send the Job back to the panel.

2.13.3 Troubleshoot the Firmware Upgrade on a 64-bit Computer

If you have a 64-bit computer and Windows 7, 8, or 10, and the **Next** button on the firmware upgrade window is grayed out, follow the instructions below.

Troubleshoot the firmware upgrade

1. Ensure that the TX3 controller is powered on and connected directly to the computer with a USB cable.

2. On the local PC, click **Start**, then click **Control Panel**, then click **Device Manager**.

3. Click the arrow to expand **Ports**.

If you see a driver called **Bossa**, then Windows has picked the wrong USB driver. Follow the instructions below to upgrade the driver.

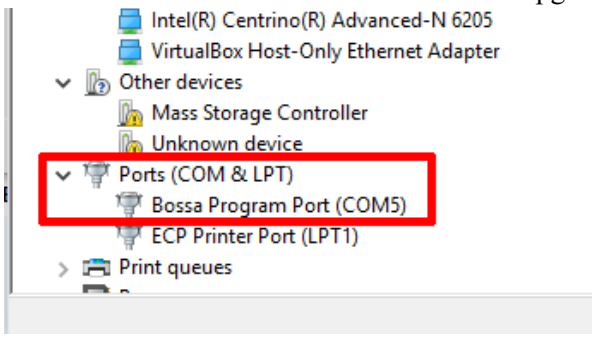


Figure 26. Device Manager showing Bossa driver

Upgrade the USB driver

1. Right-click **Bossa** and click **Update Driver Software**.

2. In the **Update Driver Software** window, click **Browse my computer for driver software**.

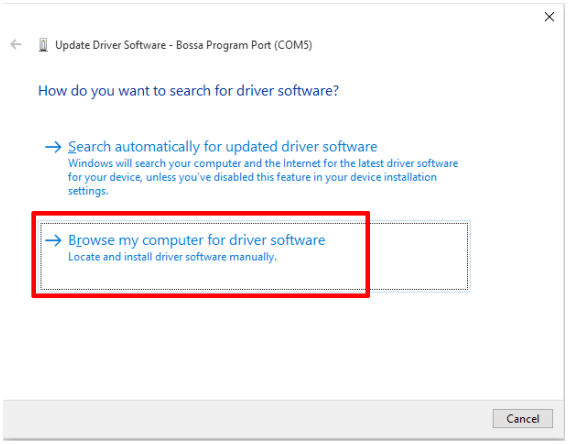


Figure 27. Browse my computer for driver software

3. Click **Browse**.

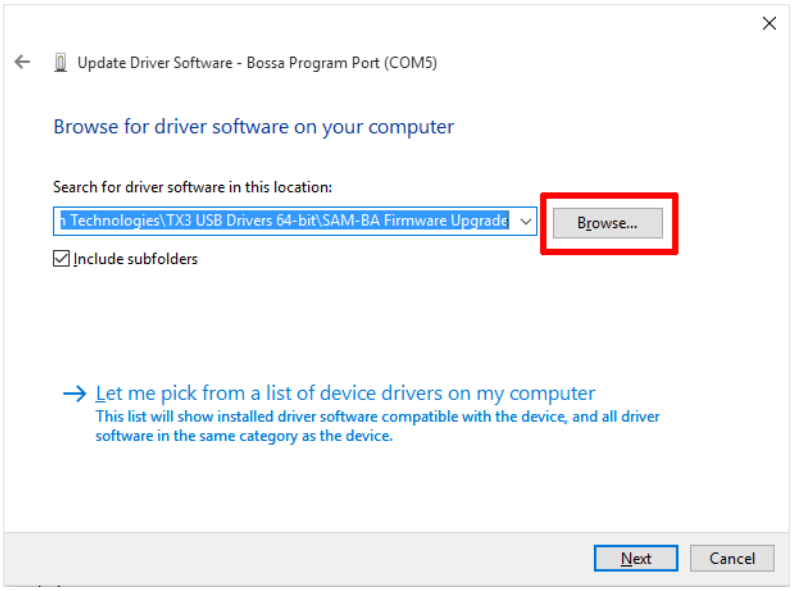


Figure 28. Browse for driver software

4. Navigate to this folder:
C:\Program Files (x86)\Mircom Technologies\TX3 USB Drivers 64-bit\SAM-BA Firmware Upgrade

5. Select **SAM-BA Firmware Upgrade** and click **OK**.

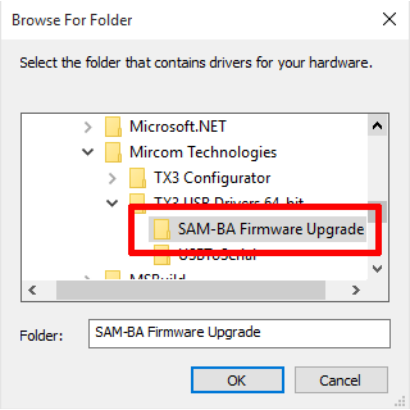


Figure 29. Browse For Folder

Do you see a window saying that the best driver software is already installed (Figure 30)?

If yes, click **Close** and go to step 6.

If no, Windows installs the software. Go to step 8.

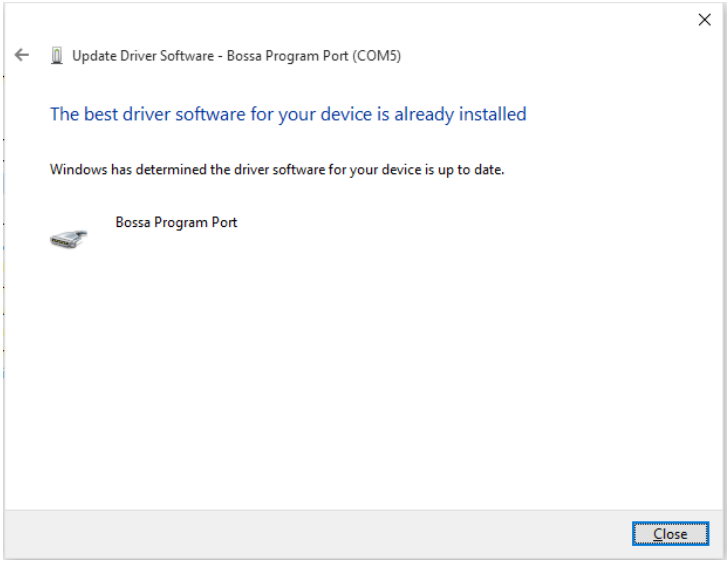


Figure 30. The best driver software is already installed

6. Go back to step 1 under **Upgrade the USB driver** on page 51 and follow the instructions. At step 3, do not click **Browse**. Instead, click **Let me pick from a list of device drivers on my computer**.

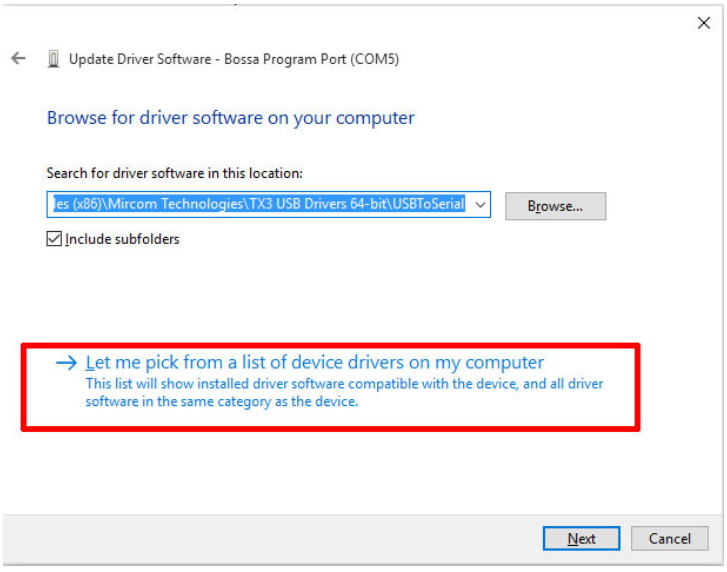


Figure 31. Let me pick from a list of device drivers

7. Select **AT91 USB to Serial Converter** and click **Next**.

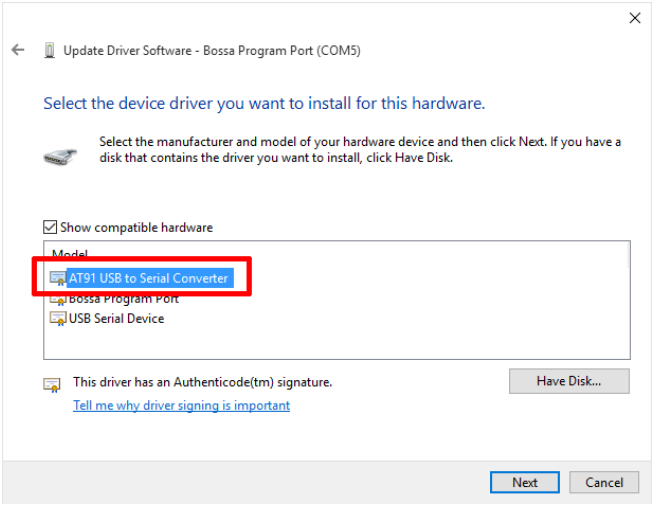


Figure 32. Select the device driver you want to install

Windows installs the driver software.

8. Click **Close**.

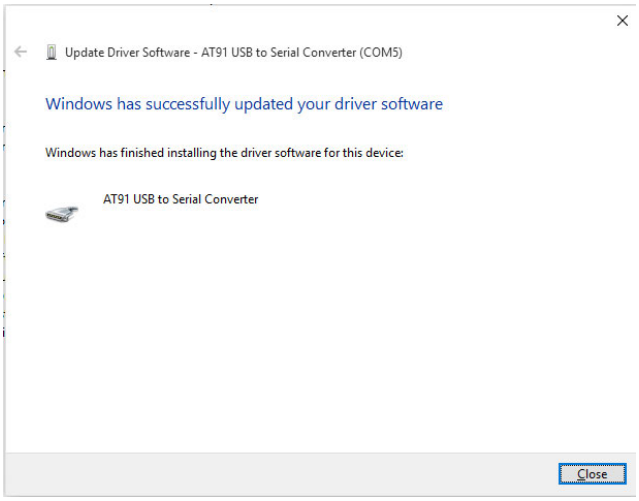


Figure 33. Windows has successfully updated your driver software

9. Verify that **AT91 USB to Serial Converter** appears under **Ports** in the Device Manager.

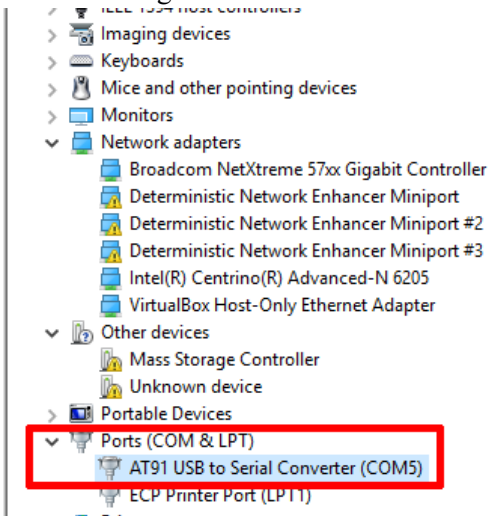


Figure 34. Device Manager

10. Follow the steps in section 2.13.2 to upgrade the firmware.

2.13.4 Network Firmware Upgrade

The Network Firmware Upgrade allows you to upgrade the firmware on many panels simultaneously. Which panels can be upgraded over the network depends on the network configuration of your TX3 system and how you connect to the TX3 system (see section 1.1.4).

Go to the Mircom web site for the latest firmware.

Notes: In order to use the Network Firmware Upgrade tool:

- At least one panel on the network must have firmware version 2.0.0 or higher installed.
- The new firmware files must be version 2.0.0 or higher.

Note: If the panel's firmware is corrupted, use the Firmware Upgrade Wizard instead (section 2.13.2).

Perform a network firmware upgrade

1. Establish a connection from the PC to the TX3 system using one of the following methods:

   - a USB connection to a panel

- COM port connection to a panel
- a modem connection to a panel
- a connection to the system's Ethernet TCP/IP network

2. Ensure that all of the panels to be updated in the network are powered on.
3. Click the **Connect** icon in the Tool Bar.

   The Configurator is connected to the panel network.
4. Click **Get** on the Tool Bar to get the Job.
5. Click **Panels > Network Firmware Upgrade** from the Menu Bar.

   The Network Firmware Upgrade window appears.

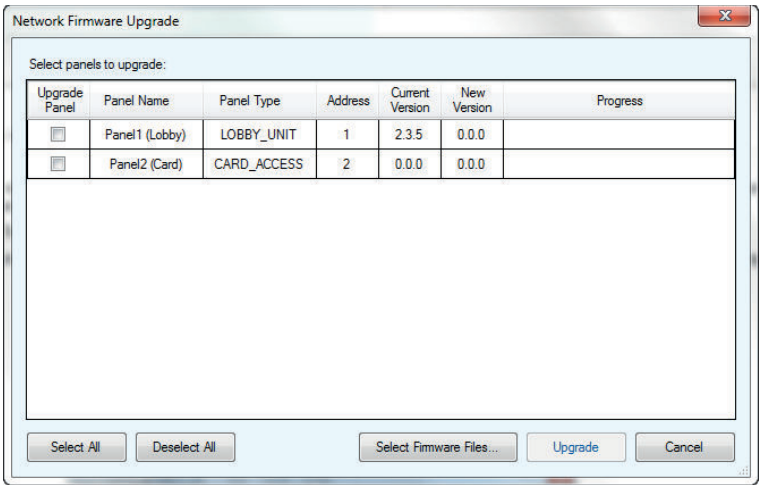


Figure 35. Network Firmware Upgrade Screen

6. Select the panels on the network to upgrade with new firmware by selecting the corresponding check boxes on the left.
7. Once the panels on the network have been selected, click **Select Firmware Files**.

The Select Firmware Files window appears.

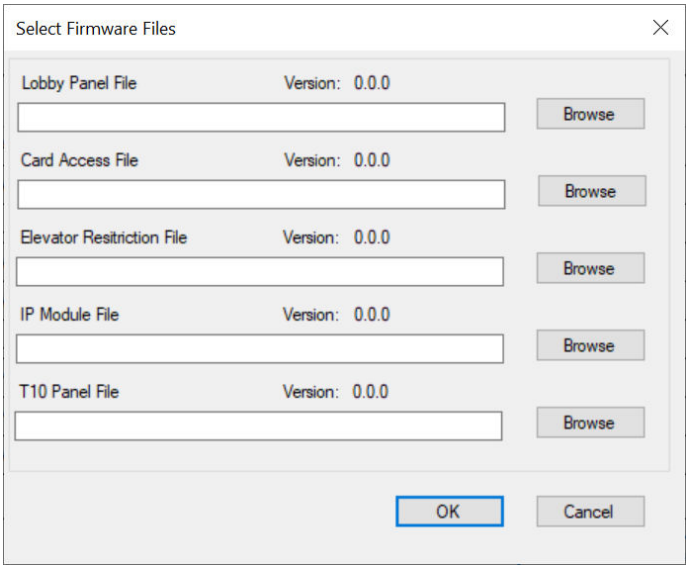


Figure 36. Select Firmware Files

Each type of panel on the network uses a different firmware file.

8. Click **Browse** for one of the panel types being upgraded and in the new window that appears select the firmware file to use.

9. Repeat step 8 for each type of panel being upgraded on the network.

10. Once completed click **OK**.

11. In the Network Firmware Upgrade window click **Upgrade** to begin upgrading the selected panels.

    The firmware upgrade process takes several minutes to complete. A progress of each upgrade is shown next to each panel. Once the firmware has been upgraded, the panel automatically restarts. Wait until all panels have finished restarting before continuing.

12. Once the upgrade completes, click **Send** on the Tool Bar to send the Job back to the panel.

2.14 Log into the Touch Screen Terminal (15 and 22 Inch Touch Screens)

Use the PC TX3 Configurator to perform all configurations on the TX3 system, except for the features listed below. In order to access the features below, you must log into the 15 or 22 inch Touch Screen itself.

- Set the Touch Screen administrator password (section 2.6)

- Save Touch Screen log files (section 2.15)
- Change the appearance of a Touch Screen Secondary Node (a Touch Screen Secondary Node is a Touch Screen connected by RS-485). This includes all the settings in section 4. You can only change the appearance of a Touch Screen Secondary Node by logging in to the Touch Screen either at the terminal or by using Remote Desktop (section 4.9).
- Test themes (**Create or modify themes** on page 90)
- Enable the Advertising Module (section 4.6)
- Print an advertising report (**Print an Advertising Report** on page 111)
- Calibrate the Touch Screen (section 4.8)

If you need to access one of these features, log into the Touch Screen as described below. **For all other configurations, use the PC Configurator.**

Log in to the Touch Screen terminal

At the Touch Screen terminal, enter **9999**. The administrator password window appears.

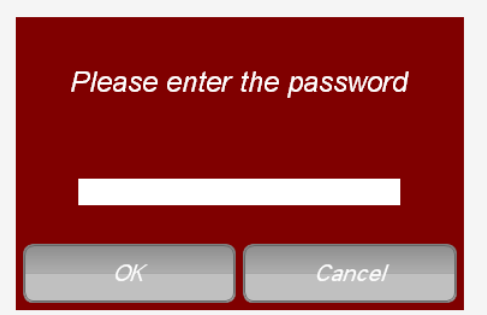


Figure 37. TX3 Touch Admin Access

1. Enter your administrator password, and then click `OK` (by default, there is no password). The Main Window appears. You are now ready to begin configuration.

2. Proceed with your configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Note: You can log into the Touch Screen remotely using Remote Desktop (section 4.9).

2.15 Save Touch Screen Log Files

2.15.1 For TX3 Touch Software Versions Prior to 1.2.7

1. From the main touch screen display enter "**9999**". The administrator access code window appears.

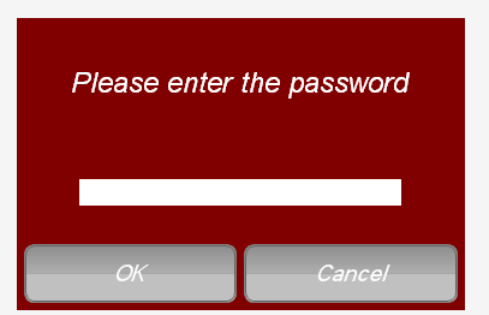


Figure 38. TX3 Touch Admin Access

2. Enter the Touch Screen administrator password to log in to the system and press **OK** (by default the there is no password). The main configuration window appears.
3. In the main configuration window, click **Get**.
4. After the Configurator has retrieved the job, click **Disconnect**.
5. Navigate to the File menu and select **Exit to Windows**.

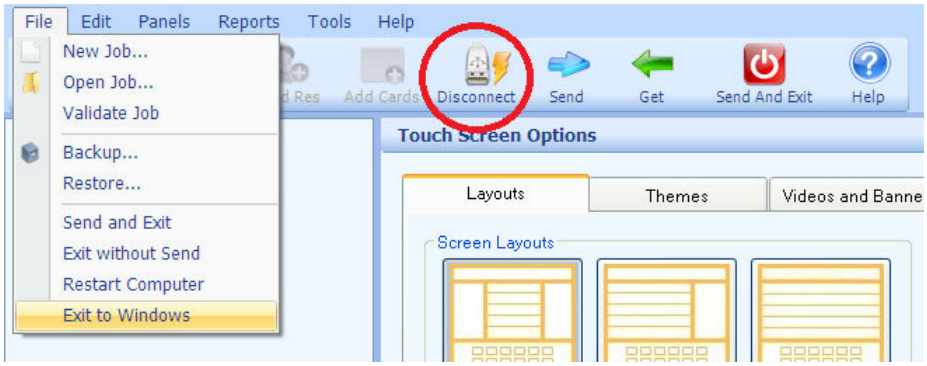


Figure 39. Configurator Exit Screen

6. Navigate to **C:\Program Files\Mircom Technologies\TX3 Touch**.
7. Open the **DataFiles** folder and copy all files with the **.log** extension and save them to a USB flash drive.
8. Open the **Database** folder and copy all files inside and save them to a USB flash drive.
9. Restart the TX3 software.

2.15.2 For TX3 Touch Software Version 1.2.7 or Later

1. From the main touch screen display enter "**9999**".

   The administrator access code window appears.

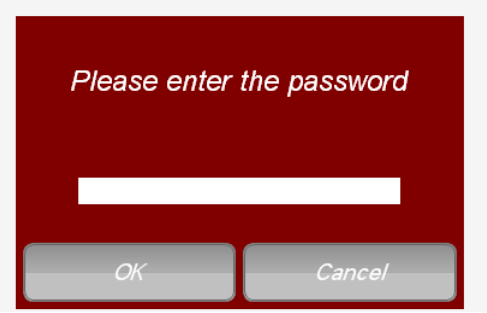


Figure 40. TX3 Touch Admin Access

2. Enter the Touch Screen administrator password to log in to the system and press **OK** (by default there is no password).

   The main configuration window appears.

3. In the main configuration window, click **Get**.

4. Navigate to the Help menu and select **About**. The About window appears.

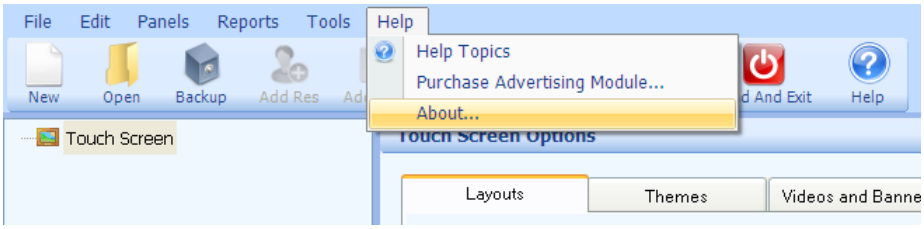


Figure 41. Help Menu Navigation

5. In the About window select **Save Log Files** and save them to a USB flash drive.

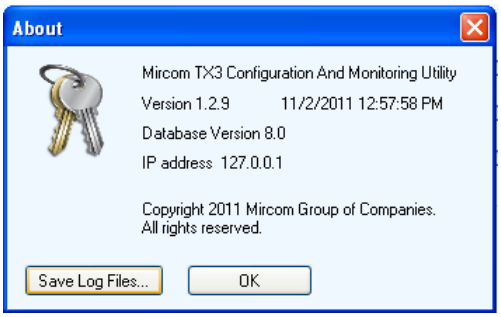


Figure 42. Log Files Save Screen

6. To return to the main touch screen display, click **Send and Exit**.

2.16 Upgrade the Touch Screen Software on 15 and 22 Inch Touch Screens

1. Contact Mircom customer service to obtain the latest Touch Screen software.
2. Copy the Touch Screen software installer to a USB flash drive.
3. Insert the USB flash drive into the USB port on the Touch Screen.
4. From the main touch screen display enter "**9999**". The administrator access code window appears.

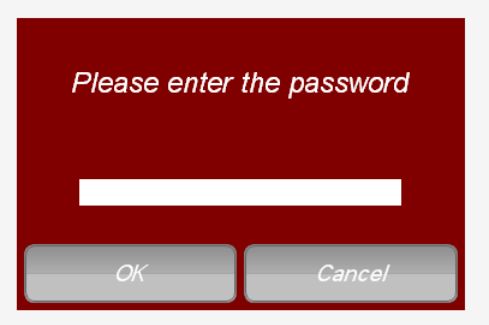


Figure 43. TX3 Touch Admin Access

5. Enter the Touch Screen administrator password to log in to the system and press **OK** (by default the there is no password). The main configuration window appears.
6. Navigate to the File menu and select **Exit to windows**.

7. Navigate to the Control Panel.

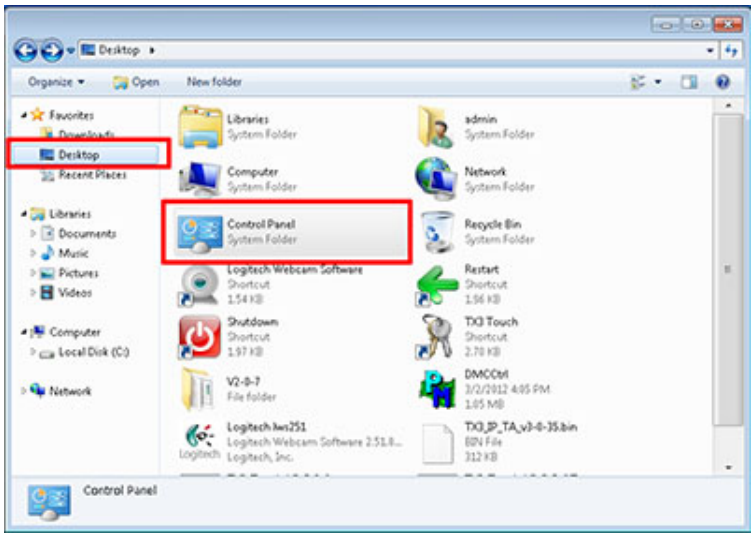


Figure 44. Control Panel

8. Select **Uninstall a Program**.

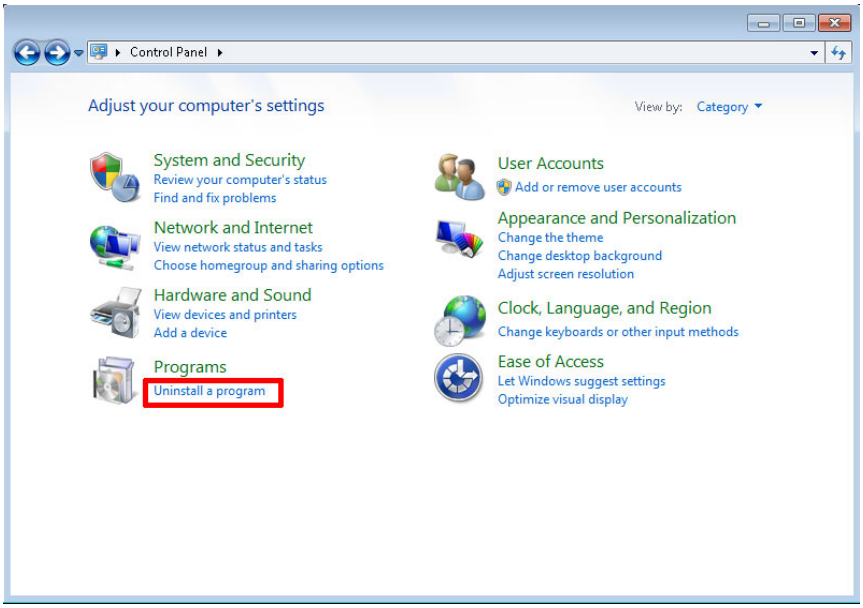


Figure 45. Uninstall a Program

9. Double-click **TX3 Touch Entry Phone System**.

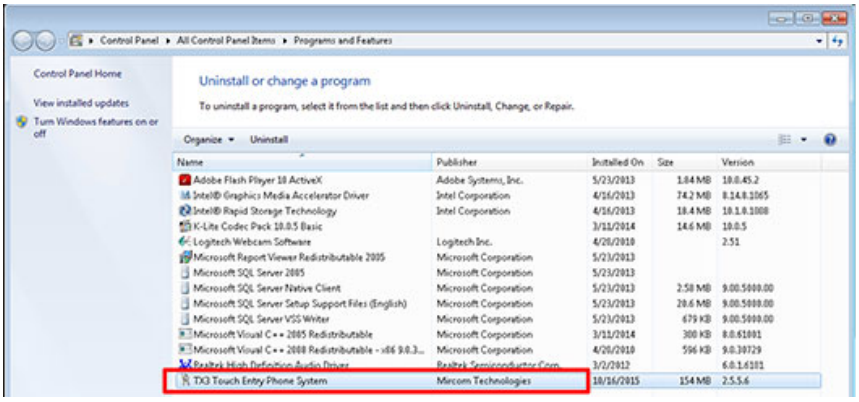


Figure 46. TX3 Touch Entry Phone System

10. Click **Yes** to remove the existing software.

Figure 47. Uninstall TX3 Touch Entry Phone System

11. After the software is removed, click the back arrow to go back to the Desktop.

12. Navigate to the USB flash drive, and drag the new Touch Screen software installer to the desktop.

13. Double click the new Touch Screen software and follow the instructions to install it.

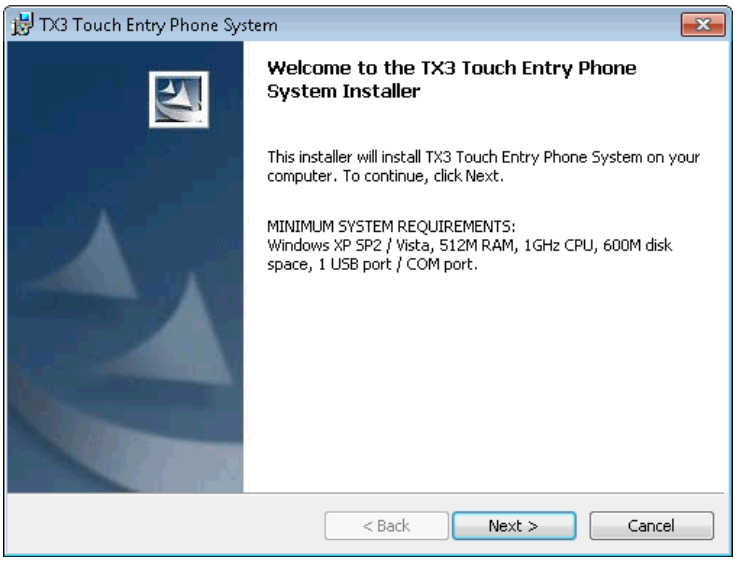


Figure 48. The first window of the TX3 Touch Screen software Installer

14. After the new software is installed, the Configurator software starts.

15. Verify that the job is complete, and click **Connect** to test the connection to the Touch Screen.

16. Quit the Configurator software.

17. Double-click the **Restart** icon on the desktop to restart the Touch Screen.

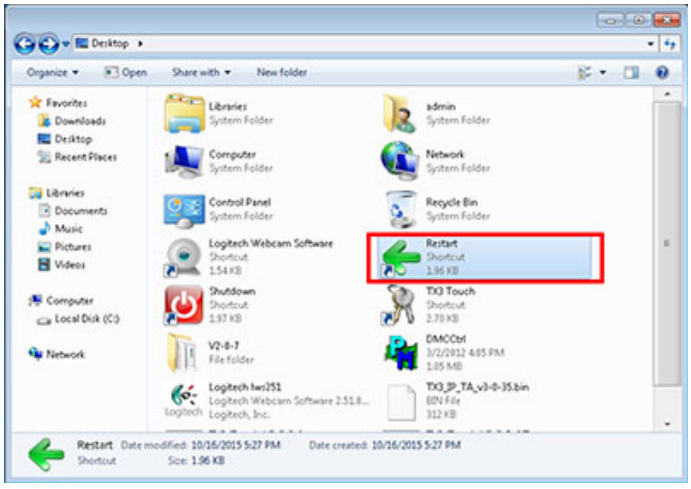


Figure 49. Restart the Touch Screen

2.17 Shut Down the TX3 Touch Screen

Shut down the TX3 unit from the touch screen

1. From the main touch screen display enter "**9999**". The administrator access code window appears.

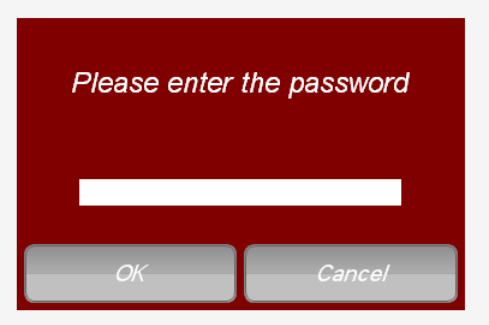


Figure 50. TX3 Touch Admin Access

2. Enter the Touch Screen administrator password to log in to the system and press **OK** (by default the there is no password). The main configuration window appears.
3. Navigate to the menu bar along the top and select the **File** menu.
4. In the menu that appears select **Shut Down** and select **Shut Down** again.
5. Confirm your selection when the pop-up window appears.

   The Configurator software shuts down followed by the Windows environment and the hardware.

Note: Do not disconnect the power until the full shut down process has been completed.

3 Add and Connect to a Panel

The TX3 Configurator lets you connect to any panel on the network. Once you connect to a panel, you can monitor and configure activities of all controllers connected to the TX3 network and add resident and card information.

This chapter explains

- Add a Panel
- Change a Main Node's IP Address
- Connect to a Panel
- Send the Job
- Disconnect from a Network

3.1 Add a Panel

The first step in setting up the panel is to add the panel to the network. Once a Touch Screen, Card Access or Telephone Access panel is added to the network, access configuration information can be entered.

Note: When adding additional panels ensure the selected panel matches the panel and model you wish to connect to.

For information about the installation of the Telephone Access and Card Access Systems, refer to the manuals shipped with the system and on the Mircom website (www.mircom.com).

The procedure for adding panels differs slightly depending on how you are connecting to your TX3 system. If you are connecting directly to a panel (using a modem, the USB port, or a COM port), follow the instructions in section 3.1.1. If you are connecting to a TX3 system with Main Nodes and Secondary Nodes on an Ethernet TCP/IP network, see section 3.1.2.

General information on how TX3 devices can be connected together (RS-485, Ethernet, or both) can be found in section 1.1.4.

3.1.1 Add Panels Using a Modem, USB, or COM Connection

When you connect to a panel using a modem, USB, or COM connection, you can add that panel as well as any other panel connected to the same RS-485 network to your job. In order to add a panel to your job, you need to know both the RS-485 network address and model of the panel.

Add a panel to the network

1. Right click anywhere on the tree and select **Add Panel**. The Add Panel window appears.

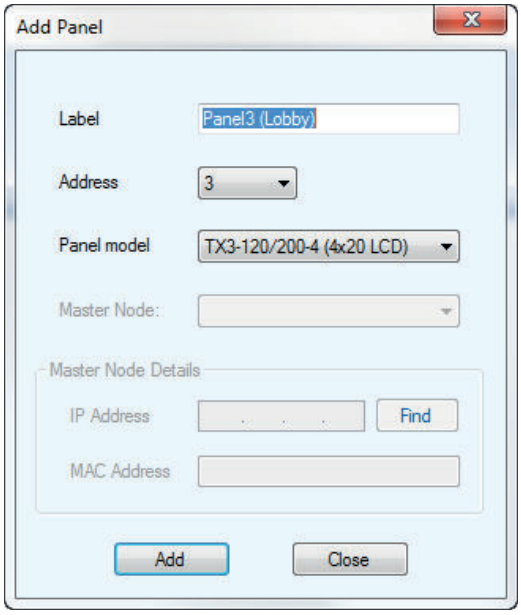


Figure 51. Add Panel

2. Provide the following information:

   Panel model. Click the drop down list and select a panel.

   Address. This field displays the remaining available panel addresses. Click the drop down list and select the panel address. Ensure that this address matches the panel address.

   Label. Provide a name for the panel.

3. Click **Add** to add the panel and return to the configuration window, or click **Close** to exit without saving the changes.

3.1.2 Add Panels Using a TCP/IP Connection

If you connect to your TX3 system using a TCP/IP network connection, you can add any of the panels in the TX3 system to your Job, whether they are connected directly to the Ethernet TCP/IP network (Main Node) or they are connected to an RS-485 network (Secondary Node). You can also use the TX3 Configurator to change the IP address of Main Nodes once they have been added to your Job.

3.1.2.1 Add a Main Node

Note: If you are having problems adding nodes to your Job, there may be another program using the TCP/IP ports that the TX3 system communicates on. See section 1.2 for information on what ports the TX3 system uses.

Note: If you cannot find the panel, then it might have a static IP and be on a different subnet. Follow the instructions in section 3.2.

Add a Main Node panel to your job

1. Connect your PC to the TX3 system's Ethernet TCP/IP network.

2. Right click anywhere on the tree and select **Add Panel**. The Add Panel window appears.

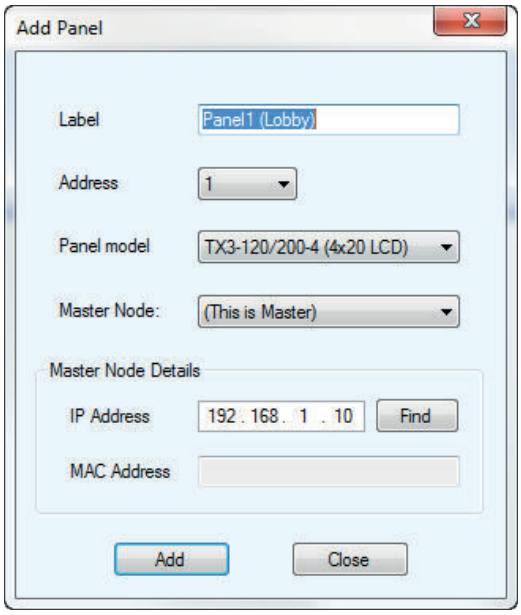


Figure 52. Add Main

3. Select **(This is a Master)** from the **Master Node** list.

Note: In the Configurator, the terms **Master** and **Main** are equivalent.

4. Click **Find**. The Find IP Panel window opens. This window shows all the Main Nodes on the TCP/IP network.

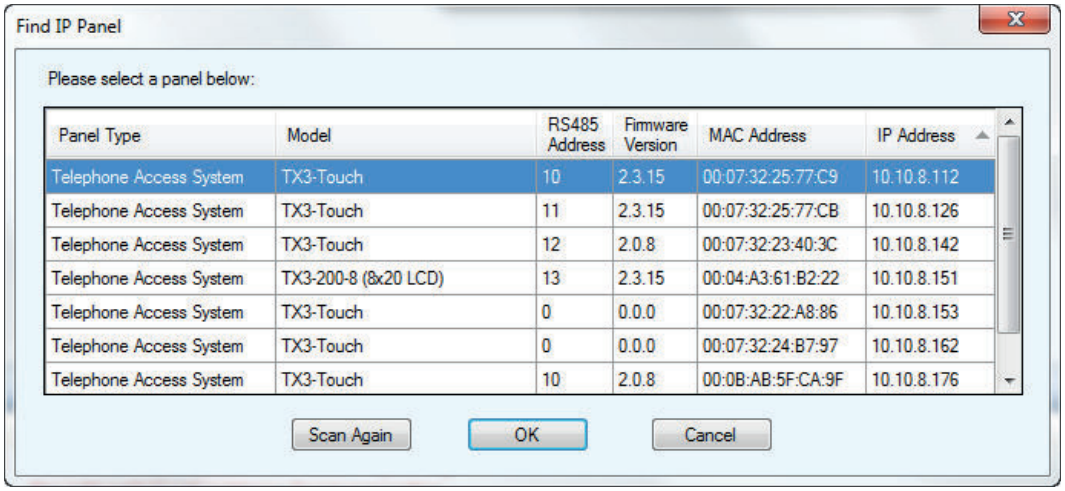


Figure 53. Find IP Panel

5. Select the Main Node you want to add to your job, and then click **OK**.

6. In the Add Panel window, click **Add**.

Note: If you cannot find the panel, then it might have a static IP and be on a different subnet. Follow the instructions in section 3.2.

3.1.2.2 Adding a Secondary Node

Notes: Before you can add a Secondary Node to a job, you must first do the following:

- Add the Secondary Node's Main Node to the job.
- Record the RS-485 address and model of the Secondary Node.

Add a Secondary Node panel to your job

1. Right click anywhere on the tree and select **Add Panel**. The Add Panel window appears.

2. From the **Master Node** list, select the panel that is the Main Node of the panel you want to add.

3. Provide the following information:

   Panel model. Click the drop down list and select a panel.

Address. This field displays the remaining available panel addresses. Click the drop down list and select the panel address. Ensure that this address matches the panel address.

Label. Provide a name for the panel.

4. Click **Add** to add the panel and return to the configuration window, or click **Close** to exit without saving the changes.

3.1.3 Delete a Panel from the Network

Deleting a panel from the network removes it entirely from the system. Configuration information inside the panel remains unchanged.

Delete a panel from the network

1. Select the panel, and then select **Edit > Delete**. The Delete Panel window appears.

2. Click **Yes** to confirm the deletion or **No** to exit and return to the main window.

3.2 Change a Main Node's IP Address

You might need to change a non-Touch Screen Main Node's IP address when you are adding the panel to a new network, or when the panel was turned on for the first time with DIP switch 8 on.

Notes: Before you change a Main Node's IP address:

- If you are having problems changing IP addresses, there may be another program using the TCP/IP ports that the TX3 system communicates on. See section 1.2 for information on what ports the TX3 system uses.
- You **cannot** change the IP address for a 15 or 22 inch Touch Screen panel using the TX3 Configurator. 15 or 22 inch Touch Screens are configured to use DHCP to get their IP addresses.

3.2.1 Static or Dynamic IP Address

For non-Touch Screen units with an IP Module installed, DIP switch 8 determines how the IP address is assigned. (See LT-969 TX3 Telephone Access System Installation and Operation Manual for details.)

- **DIP switch 8 OFF:** The IP address is assigned using a DHCP server. This is the default factory setting.

- **DIP switch 8 ON when it was previously OFF:** The IP address is static and is set to the last IP address that was assigned to the panel.
- **DIP switch 8 ON when the panel is turned on for the first time:** The IP address is static and is set to:
  - 0.0.0.0 (for card access firmware lower than 3.1.26, lobby firmware lower than 3.0.45, and elevator restriction firmware lower than 3.1.14)
  - 192.168.3.1 (for card access firmware 3.1.26, lobby firmware 3.0.45, elevator restriction firmware 3.1.14)
  - 192.168.1.74 (for card access, lobby, and elevator restriction firmware version 3.4.x or higher)

If the panel is turned on for the first time with DIP switch 8 on, then follow the instructions below to change the IP address.

3.2.2 Try to Discover the Panel

1. Select **Tools > IP Change Tool**.

   The IP Change Tool window appears.

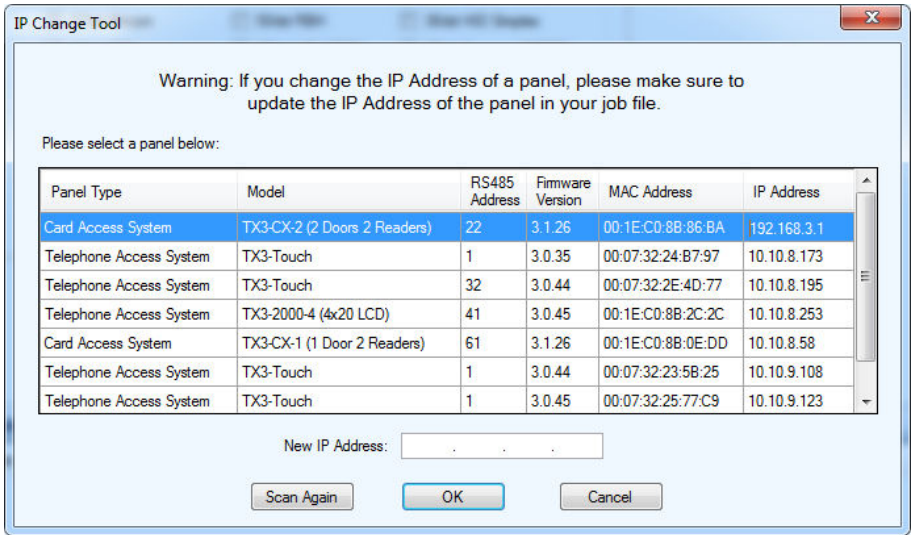


Figure 54. IP Change Tool

If you can see the panel, go to section 3.2.4.

If you cannot see the panel, go to section 3.2.3.

3.2.3 Configure your PC so that it is on the Same Subnet

If you cannot see the panel in the IP Change Tool, then you must configure your PC so that it is on the same subnet as the panel.

1. Connect your PC to the TX3 system's Ethernet TCP/IP network.
2. Click **Start**, then **Control Panel**, then open the **Network and Sharing Center**.
3. Click **Local Area Connection**.
4. Click **Properties**.

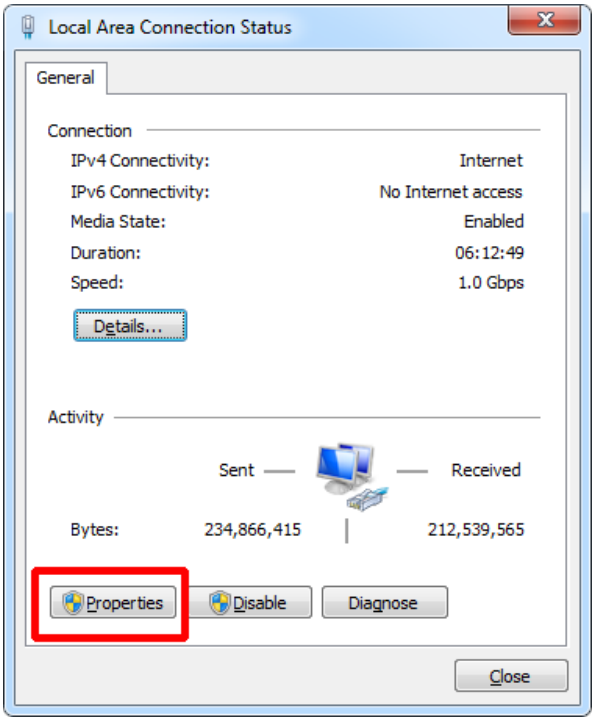


Figure 55. Local Area Connection

5. Double-click **Internet Protocol Version 4**.

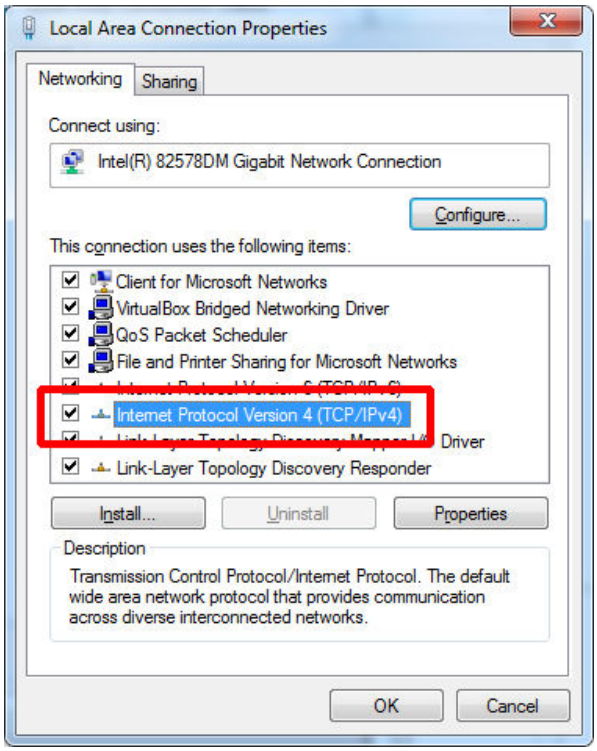


Figure 56. Local Area Connection Properties

The Internet Protocol Version 4 window appears.

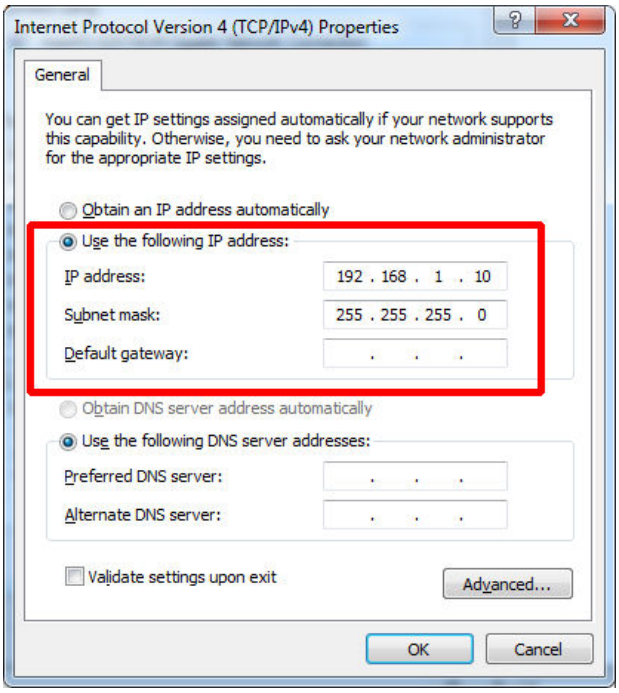


Figure 57. Internet Protocol Version 4

6. Make a note of the settings in the window. You will need this information to set the PC back to its default settings later.

7. Select **Use the following IP address** and enter the following information:

   IP address: 192.168.1.10 (firmware version 3.4.x) or 192.168.3.10 (firmware version 3.1.26)

   Subnet mask: 255.255.255.0

8. Click **OK** and continue to section 3.2.4 below.

3.2.4 Change the Panel's IP Address

1. In the Configurator, click the **Network** node.

2. Enter the following information in order to configure the panel for the destination network (the network that the panel should be on).

   Mask: The subnet mask of the destination network. Consult the network administrator.

   Gateway IP: The IP address of the gateway for the destination network. Consult the network administrator.

This information will be sent to the panel when you change the IP address in the steps below.

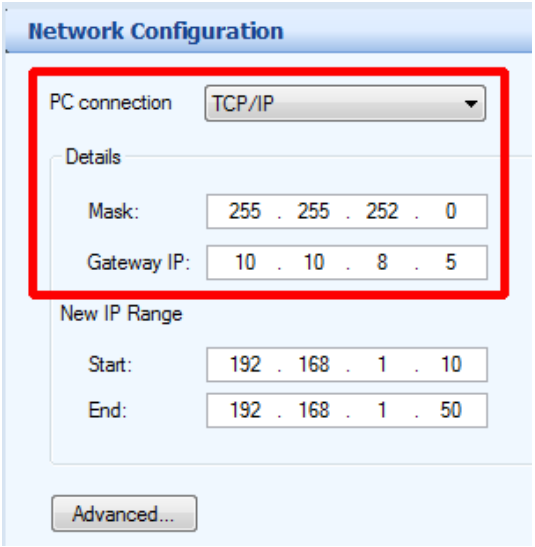


Figure 58. Network Configuration

3. Select **Tools > IP Change Tool**.

   The IP Change Tool window appears.

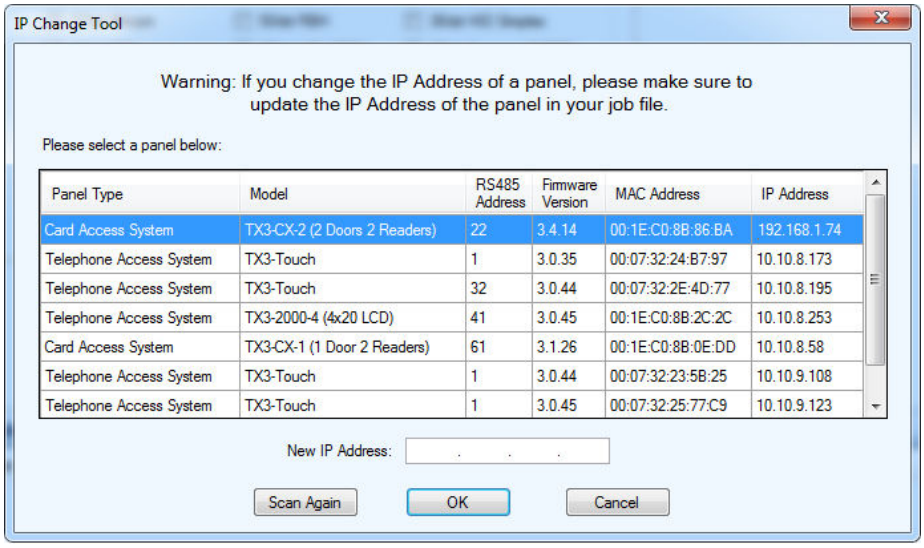


Figure 59. IP Change Tool

4. Select the panel that you want to change the IP address for.

5. Enter the new IP address in the **New IP Address** box.

6. Click **OK**.
7. If you have firmware version 3.1.26 or higher:
   a. If an error message appears saying **Unable to assign new IP address. Not responding to ping**, click **OK**. This message appears because the PC was configured to the panel's subnet mask, and that subnet mask has now changed.
   b. Follow the instruction in section 3.2.3 to restore the PC's TCP/IP information to the default. Consult your system administrator for assistance.
8. In the IP Change Tool, click **Scan Again** and make sure that the panel appears.
9. Click **Connect** from the Tool Bar.

10. Click **Send**.

3.2.5 Change the IP Address in the Job File

If the panel is already in your Job, you must also change its IP address in your Job file by doing the following.

1. Open your Job file.
2. Select the Main Node whose IP address you changed using the IP Change Tool.
3. Enter the Main Node's new IP address in the IP address box.

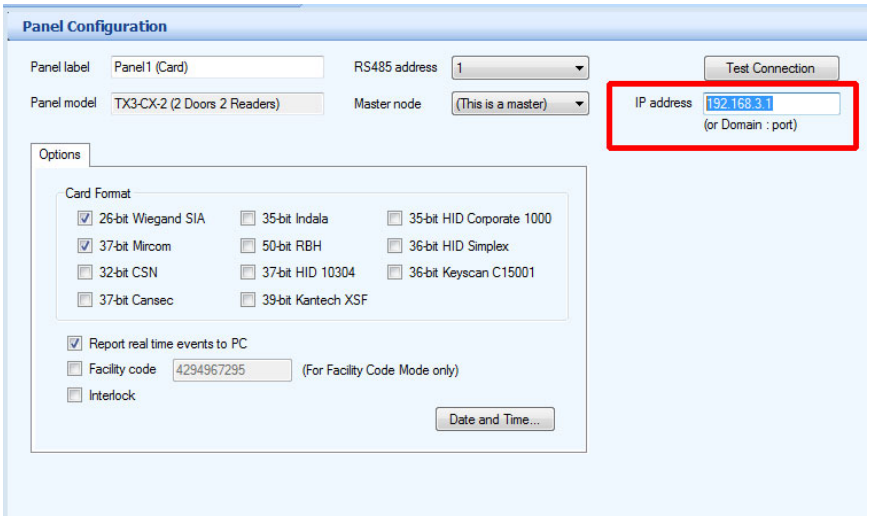


Figure 60. IP address

4. Click **Connect** from the Tool Bar.

5. Click **Send**.

3.3 Connect to a Panel

The network configuration option lets you set the parameters required for the PC to communicate with a single panel or a network of panels using a COM port, Modem, USB, or TCP/IP connection.

Note: Whenever configuring a network, first disconnect from that network.

Each controller must be set with a level 3 passcode. By default this passcode is **3333**.

Note: The level 3 panel passcode must match the network passcode in order to connect to that panel. The level 3 passcode is initially set at the panel (except for the TX3-T10).

When a panel is successfully connected, a message displays in the Lower Pane Online Events indicating it is currently online. If unsuccessful an error message appears.

Once connected, the Connect toolbar button shows the '**connected**' icon and you can begin adding resident and card information.

Establish a network connection

1. If connected, Click **Disconnect** from the toolbar.

2. Establish the USB, COM, modem, or TCP/IP connection from the PC to the controller (USB or COM port), telephone line (modem), or Ethernet network (TCP/IP).

Note: When using an RS-485 connection select **COM Port** from the PC connection list.

3. Click **Network**. The Network Configuration window appears.

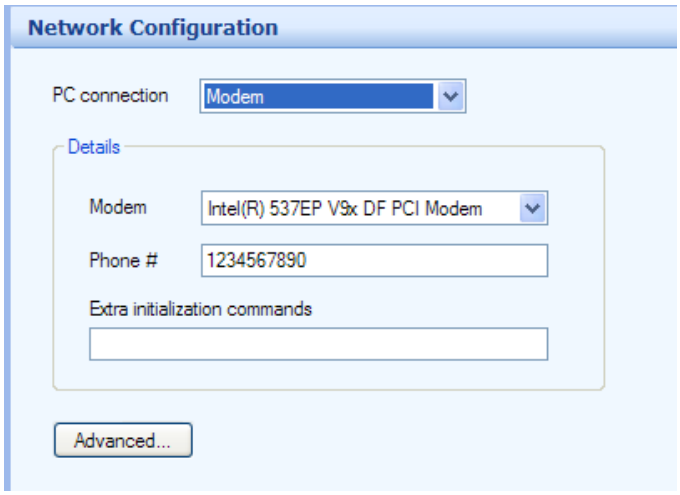


Figure 61. Network Configuration

4. Select the type of connection you are using from the **PC Connection** list.

5. Click **Advanced**. The Advanced Network Setup window appears.

Figure 62. Advanced Network Setup

6. Enter the following parameters:

   Network passcode. The network passcode is used for logging into each panel. All panels on the network must use this passcode as their highest level passcodes.

   Network timeout. The timeout is the time the software will wait for each panel to respond to a communication command. Increasing this value may help when there are many communication errors.

7. Proceed with a COM port, modem, USB, or TCP/IP configuration as described in the following sections.

3.3.1 Connect Through the COM Port

Connect to a panel using the COM port

1. Select **COM Port** from the PC connection list. The Port Details window appears.

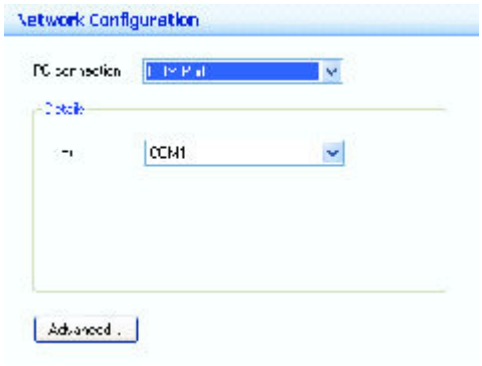


Figure 63. Network Configuration - COM Port

2. Select the COM port number. The speed is fixed set at 115200 baud. Data bit settings are fixed at no parity, 8 data bits and 1 stop bit.

3. Click **Connect** from the Tool Bar. Once connected the connection icon appears.

Figure 64. Connection Status Icon - Connected

3.3.2 Connect Though a Modem

Connect to a panel using the modem

1. Select **Modem** from the PC connection list. The Modem window appears.

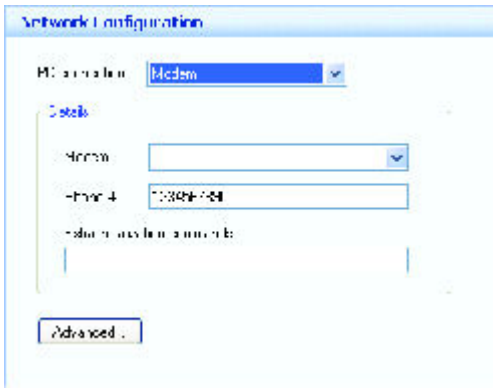


Figure 65. Network Configuration - Modem

2. Enter the following parameters:

   Modem. Select a modem currently configured into the PC.

   Phone #. Provide the telephone number the panel is connected to. If necessary use a comma for a pause.

Note: The pause length depends on the type of modem.

   Extra initialization commands. Provide any extra modem initialization commands. The characters "AT" are automatically added before the initialization commands. Refer to the manufacturer's modem documentation for additional information.

3. Click **Connect** from the Tool Bar to connect.

3.3.3 Connect Through USB

Connect to a panel using the USB port

1. Select **USB** from the PC connection list. The USB window appears. The connection automatically establishes and no settings are required. The software looks for the USB to the serial virtual COM port configured on the PC. The speed and data bit settings are the same as the COM port option.

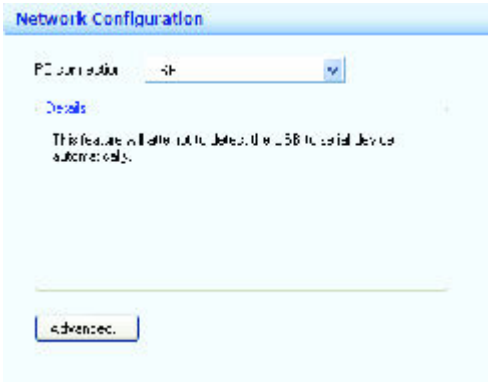


Figure 66. Network Configuration - USB

2. Click **Connect** from the Tool Bar.

3.3.4 Connect Through TCP/IP

Note: If you are having problems connecting through TCP/IP, there may be another program using the TCP/IP ports that the TX3 system communicates on. See section 1.2 for information on what ports the TX3 system uses.

Connect to a panel using a TCP/IP network

1. Select **TCP/IP** from the PC connection list. The TCP/IP window appears.

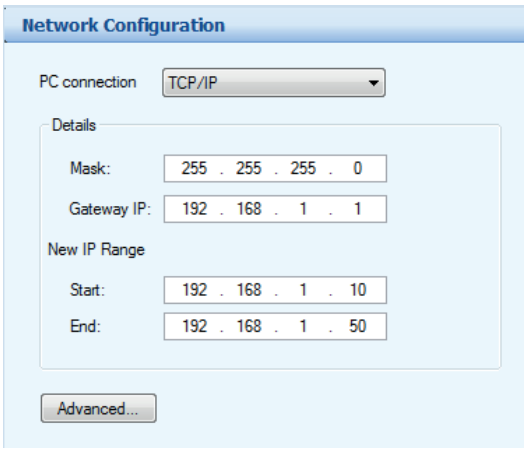


Figure 67. Network Configuration - TCP/IP

2. Enter the following parameters:

   Mask. The subnet mask of the network that the job is connecting to.

   Gateway IP. The IP address of the gateway on the network.

3. If you are using a range of IP addresses in your network, in the **New IP Range** section, enter the following parameters:

   Start. Starting IP address of your network.

   End. Ending IP address of your network.

4. Click **Connect** from the Tool Bar.

3.4 Send the Job

After you have configured the site, you must send the configuration data to the TX3 panels. Sending the data to the panels is called **sending a job**.

5. Click **Connect**

from the Tool Bar if you are not already connected.

6. Click **Send**.

3.5 Disconnect from a Network

The disconnection process, by pressing the Disconnect icon, is opposite to that of connection process. The software logs out each panel and disconnects from the communication port.

The disconnection process is also automatically invoked when closing a Job or closing the software.

Note: Some configuration functions, such as changing the panel address or model, require you to disconnect from the network. Whenever you are doing any kind of configuration ensure whether disconnection from the network is required.

Disconnect from the panel network

1. Click the **Disconnect** button. The Disconnect icon disappears, indicating that it is ready to connect.

Figure 68. Connection Status Icon - Disconnected

2. Proceed with the configuration.

4 Configure the 15 and 22 Inch Touch Screen Appearance

The TX3 Configurator lets you easily change the appearance of the user interface by setting the system parameters and options.

This chapter explains

- Overview
- Configure the Touch Screen Appearance
- Modify Layouts
- Create and Modify Themes
- Modify Videos and Banners
- Configure the Advertising Module
- Modify More Options
- Calibrate the Touch Screen
- Log into the Touch Screen Terminal Using Remote Desktop for Troubleshooting

4.1 Overview

You must be logged in to the TX3 Configurator as an administrator in order to configure the Touch Screen appearance. In addition to logging in as an administrator, you must connect using one of the following methods.

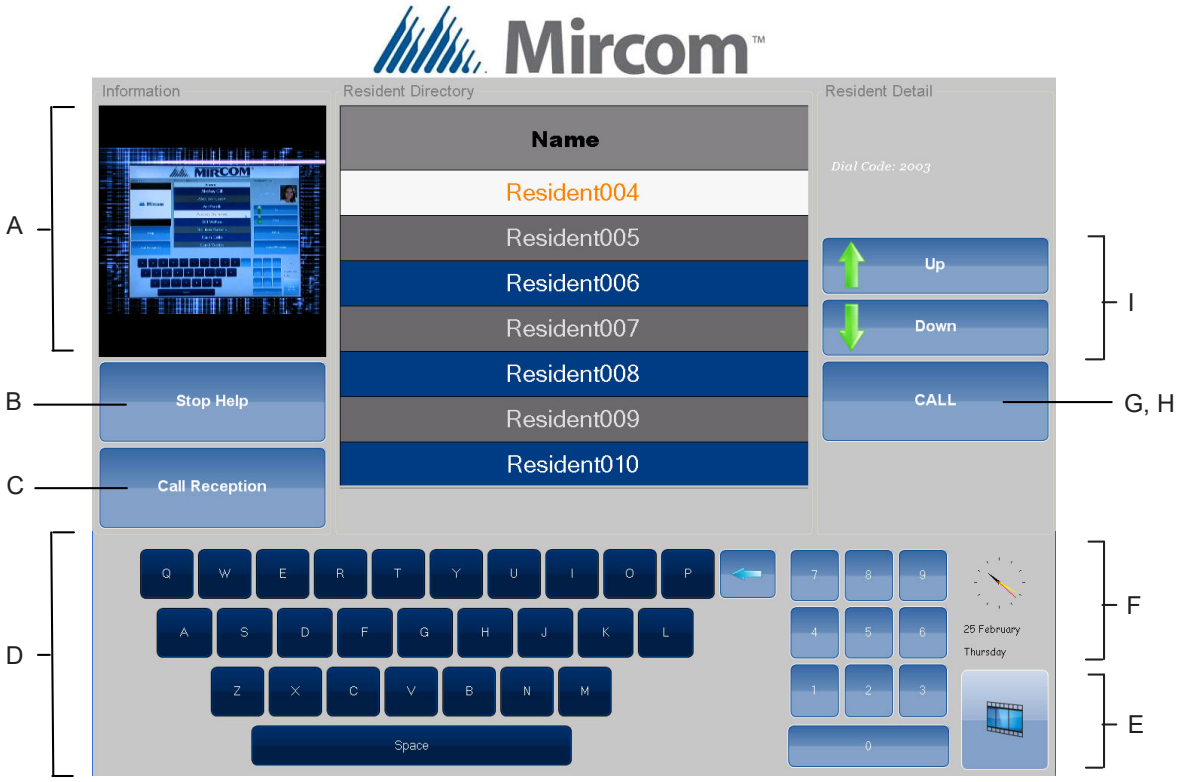
- Connecting to Touch Screen Main Nodes on a TCP/IP network with the TX3 Configurator (see section 3.3)
- Connecting to a Main Node over the Internet with the TX3 Configurator (see section 14)

4.2 Configure the Touch Screen Appearance

Touch Screen customization lets you set the layout, theme, videos and banners, and specific user options. If the preset appearance is not to your liking, you can change it.

The appearance of all Touch Screen screen elements are configurable and may be saved and re-applied. Figure 69 shows the user interface configurable screen elements.

Note: If your network connection type is TCP/IP, you can configure the appearance of Main Node Touch Screens in your job, but not Secondary Node Touch Screens. The appearance of a Secondary Node Touch Screen can only be changed at the Touch Screen (section 2.14) or by connecting to it using Remote Desktop (section 4.9).



A. *Main Video* ***B.*** *Help Button* ***C.*** *Call Reception* ***D.*** *Keyboard* ***E.*** *Bottom Banner* ***F.*** *Clock/Language Selection* ***G.*** *Call Resident* ***H.*** *Disconnect* ***I.*** *Resident Scroll Buttons*

Figure 69. User Interface Screen Elements

Configure the Touch Screen appearance

1. Log in to the TX3 Configurator as administrator, then connect to the Touch Screen.

Note: In order to connect to a Touch Screen Main Node using the TX3 Configurator, the Admin Password setting in the TX3 Configurator must match the Touch Screen administrator password. See section 4.7.5 for instructions on how to enter the Admin password in the TX3 Configurator.

2. From the Left Pane, select **Job > Network**.
3. Expand the **Network** tree.
4. Expand the panel entry for your Touch Screen, and then select **Touch Screen**.

The Touch Screen Options window appears in the Right Pane.

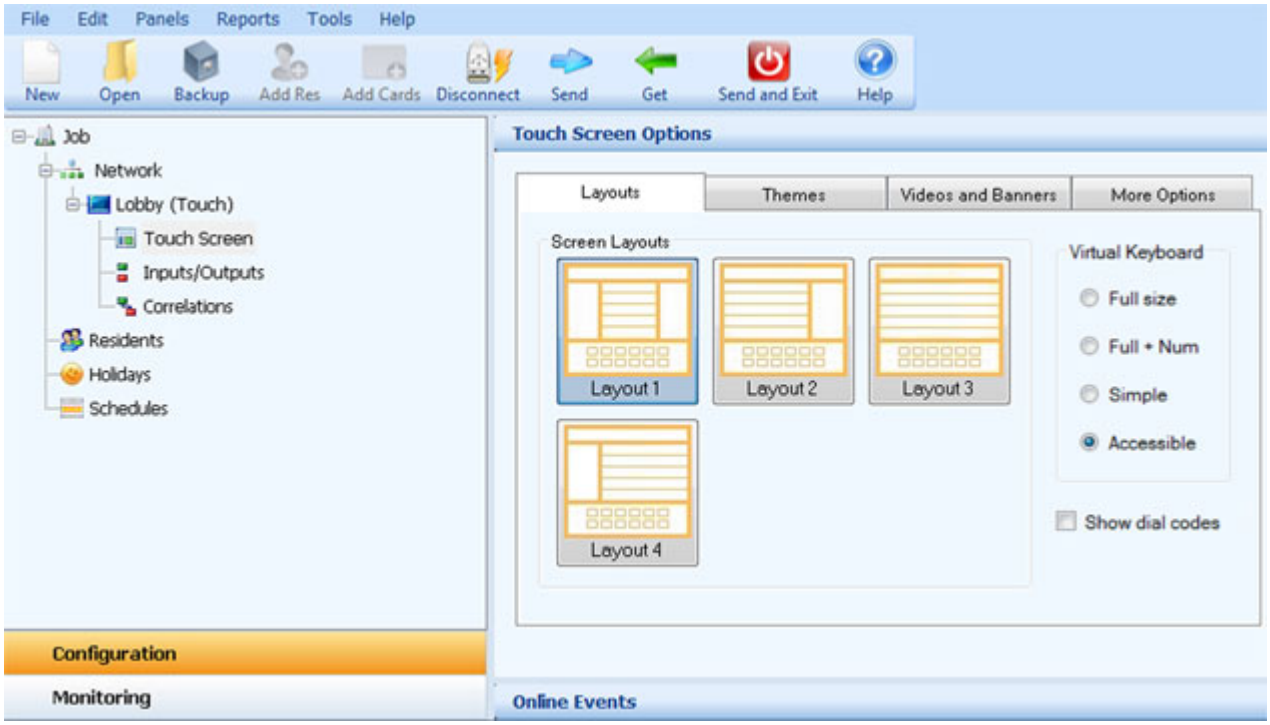


Figure 70. Touch Screen Appearance

5. Proceed with the configuration of **Layouts**, **Themes**, **Videos and Banners** or **More Options** as described in the following sections.

4.3 Modify Layouts

Layouts lets you determine how each of the major screen areas are arranged and portrayed, and may be selected from existing templates or customized.

Change the current Layout

1. From the Left Pane, select **Job > Network**.
2. Expand the **Network** tree.
3. Expand the panel entry for your Touch Screen, and then select **Touch Screen**.

4. In the Right Pane, select **Layouts**. The Layouts menu appears.

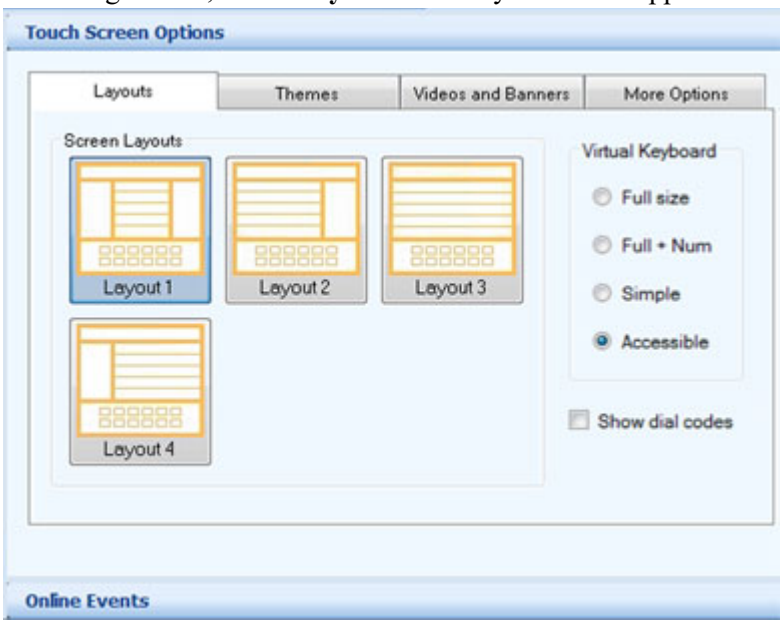


Figure 71. Touch Screen Layouts

5. From the **Screen Layouts** select one of the four available layouts.
6. From the **Virtual Keyboards** select from one of the following options:

   Full size. Displays the keyboard in full size.

   Full + Num. Displays the keyboard in full size with numbers.

   Simple. Displays the keyboard in basic formatted lettering.

   Accessible. Displays a keyboard, selection button, and resident scroll buttons at the bottom of the screen.
7. To show the dial codes on the residential directory select **Show dial codes** box.
8. If you have a Configurator version lower than 2.0.0: to enable resident names to exceed 15 characters in length select the **Enable long names** box.
9. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

4.4 Create and Modify Themes

Themes lets you set the screen font size, color and element attributes. Selections may be saved as**.thm** files and existing themes may be imported. You can accept an existing customized theme or modify it as necessary. Preset themes are fixed and cannot be modified.

The option to test themes is available only if you log into the Touch Screen terminal (section 2.14).

See the Appendix for a detailed description of the user interface elements.

Create or modify themes

1. From the Left Pane, select **Job > Network**.
2. Expand the **Network** tree.
3. Expand the panel entry for your Touch Screen, and then select **Touch Screen**.
4. In the Right Pane, select **Themes**. The Themes menu appears.

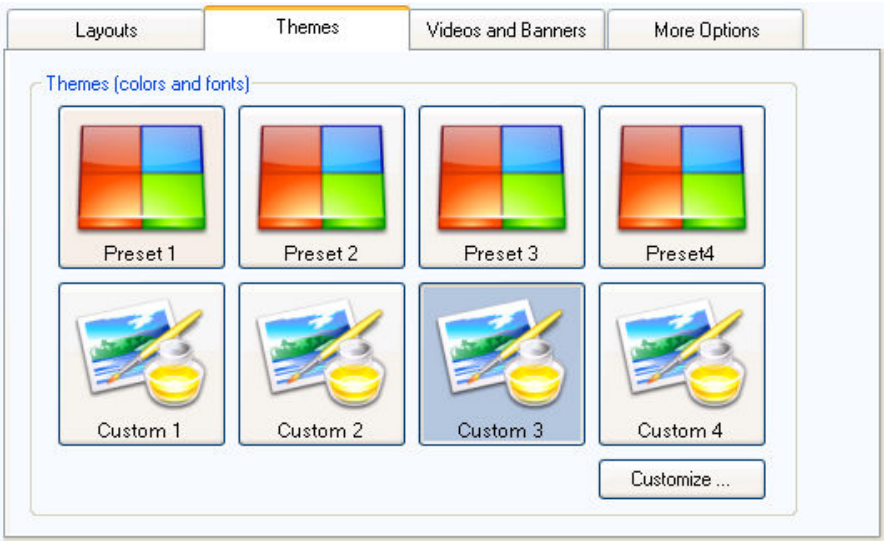


Figure 72. Touch Screen Themes

Note: Preset themes can not be modified, only exported.

5. Select a custom theme and press **Customize**. The Customize Theme window appears showing the font and color selections.

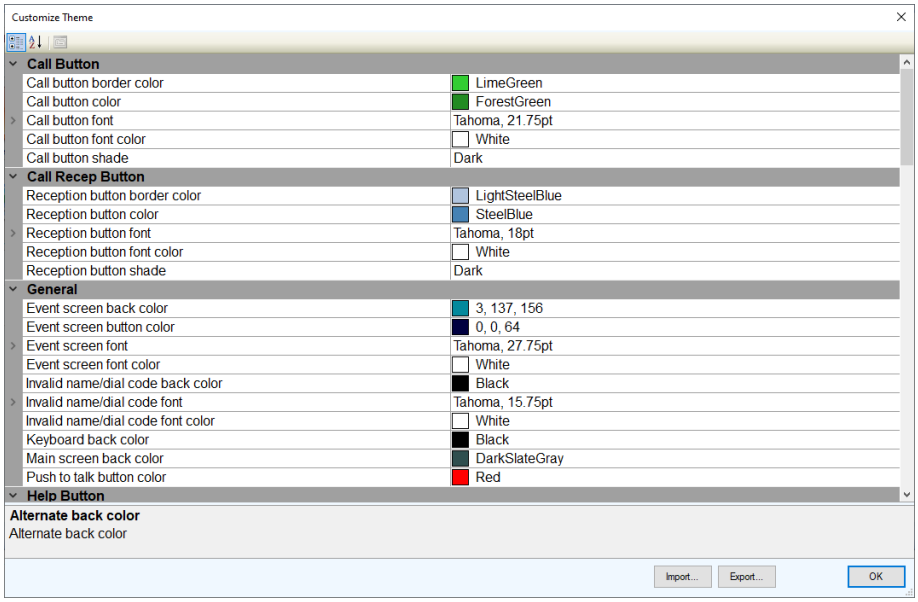


Figure 73. Touch Screen Customize Theme

6. Select the font size and color for the user interface elements. For a complete list of all the configurable user interface elements see section 15.

7. Press **Import** to retrieve an existing theme or press **Export** to save the theme to a file.

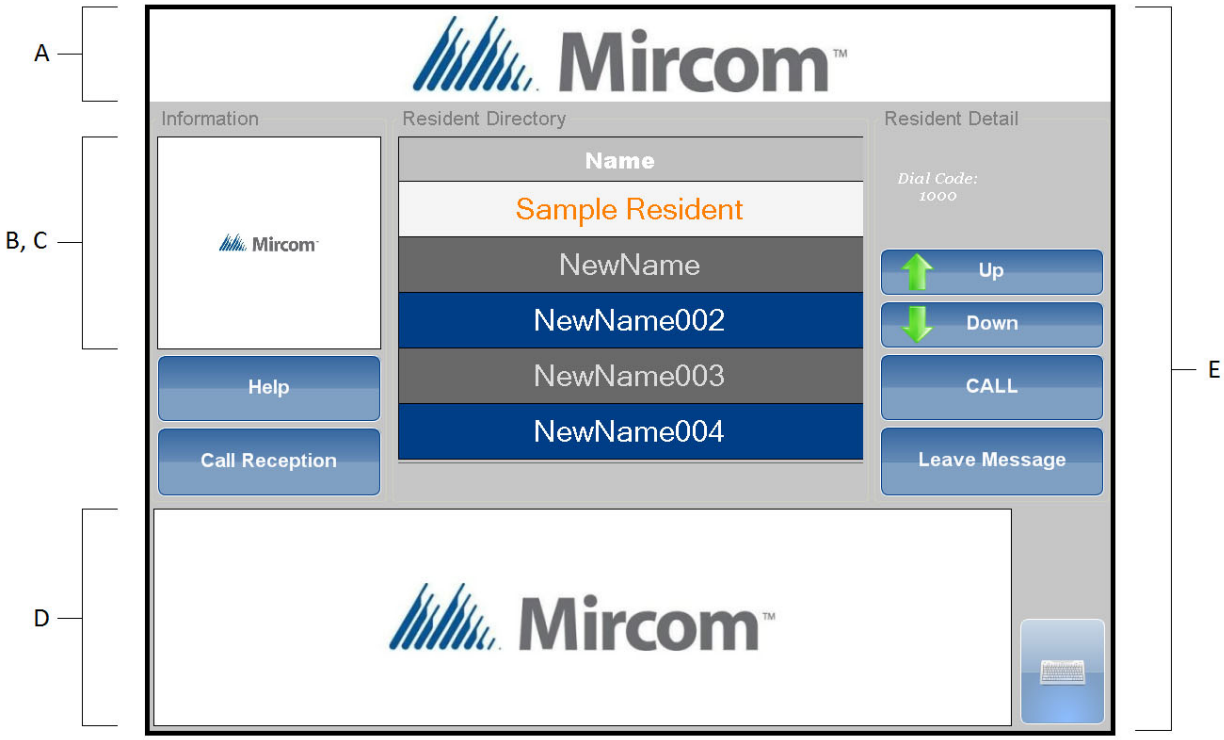
8. Press **OK** to apply the settings and return to the previous window.

9. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

4.5 Modify Videos and Banners

Videos and Banners lets you define and select the multi media options for the Touch Screen user interface. There are four different locations where media can be displayed. Figure 74 shows the customizable Touch Screen user interface

areas. Table 1 gives the dimensions for these areas. Media can be in any of the following video or still image formats: **.avi**, **.wmv**, **.swf**, **.jpg**, **.jpeg**, **.bmp**, or **.png**.



***A.** Top Banner **B.** Main Video **C.** Help Video **D.** Bottom Banner **E.** Screen Saver*

Figure 74. Touch Screen Videos and Banners

Table 1: Banner Dimensions

Banner	Banner Dimensions in Pixels (Width x Height)	
	15” Touch Screen Models	22” and Larger Touch Screen Models
A. Top Banner	1024 x 100	1080 x 100
B. Main Video	238 x 230	250 x 227
C. Help Video	238 x 230	250 x 227
D. Bottom Banner	911 x 230	960 x 374
E. Screen Saver	1024 x 768	1080 x 1920

Set videos, screen saver and banners

1. From the Left Pane, select **Job > Network**.
2. Expand the **Network** tree.
3. Expand the panel entry for your Touch Screen, and then select **Touch Screen**.
4. In the Right Pane, select **Videos and Banners**. The Videos and Banners window appears.

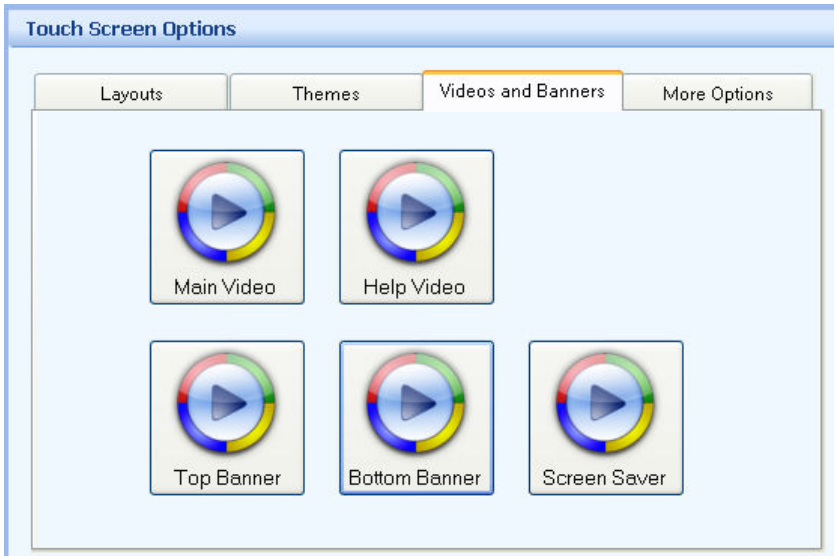


Figure 75. Touch Screen Videos and Banners

5. Configure the **Main Video**, **Help Video**, **Top Banner**, **Bottom Banner** and **Screen Saver** as described in the following sections.

Set the Main Video

1. Select **Main Video**. The Media Selection window appears.

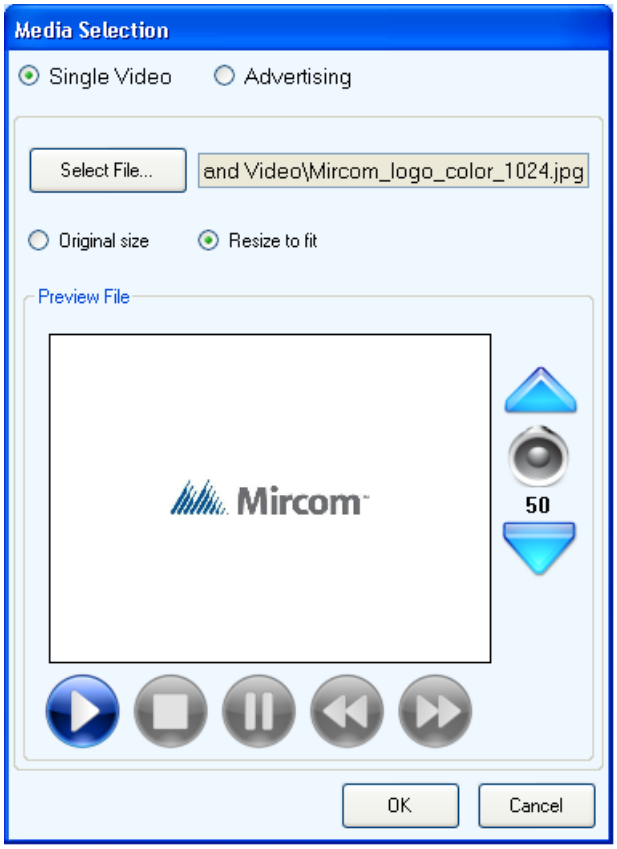


Figure 76. Touch Screen Main Video

2. To determine how you want the video to display, define the following parameters:

   Single Video. To show a single media file on the main video display select this option.

   Advertising. To show multiple media files on the main video display select this option. Refer to section 4.6.

   Select File. Press **Select File** to select a media file from a directory.

   Original Size. This option appears when image or flash file formats are selected. Selecting this option displays the image in its original size. The dimensions of the image depend on the size of your Touch Screen:

   - **15" Touch Screens:** 238 pixels wide by 230 pixels high.

- **22” and larger Touch Screens:** 250 pixels wide by 227 pixels high.

Resize to fit. This option appears when image or flash file formats are selected. Selecting this option resizes the image to fit within the display area. For best results, the dimensions of the image should be proportional to the banner’s original size (see the preceding parameter, **Original Size**).

3. To preview the selected media file use the video control buttons to play, stop, pause, rewind or fast forward.

4. To adjust the volume use the volume control buttons to the right of the media preview window.

5. Press **OK** to apply the settings and exit the Media Selection window session or press **Cancel** to exit without selecting the media file.

6. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Note: To disable the Main Video select a layout that does not include it. Refer to section 4.3.

Set the Help Video

1. Select **Help Video**. The Media Selection window appears.

Figure 77. Touch Screen Help Video

2. To determine how you want the video to display, define the following parameters:

   Single Video. To show a single media file on the help video display select this option. For the help video this is the only option available and it is automatically selected.

   Advertising. This option is disabled for help videos.

   Select File. Press **Select File** to select a media file from a directory.

   Original Size. This option appears when image or flash file formats are selected. Selecting this option displays the image in its original size. The dimensions of the image depend on the size of your Touch Screen:

   - **15" Touch Screens:** 238 pixels wide by 230 pixels high.
   - **22" and larger Touch Screens:** 250 pixels wide by 227 pixels high.

Resize to fit. This option appears when image or flash file formats are selected. Selecting this option resizes the image to fit within the display area. For best results, the dimensions of the image should be proportional to the banner's original size (see the preceding parameter, **Original Size**).

3. To preview the selected media file use the video control buttons to play, stop, pause, rewind or fast forward.

4. To adjust the volume use the volume control buttons to the right of the media preview window.

5. Press **OK** to apply the settings and exit the Media Selection window session or press **Cancel** to exit without selecting the media file.

6. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Note: To disable the Help Video select a layout that does not include it. Refer to section 4.3.

Set the Top Banner

1. Select **Top Banner**. The Media Selection window appears.

Figure 78. Touch Screen Top Banner

2. To determine how you want the video to display, define the following parameters:

   Single Video. To show a single media file on the top banner display select this option. Only image or flash file formats can be used for the top banner.

   Advertising. This option is disabled for the top banner.

   Disable. To disable the top banner select this option.

   Select File. Press **Select File** to select a media file from a directory.

   Show Text. To display customized text select this option and enter the desired text into the text field on the right. When this option is selected only text appearing in the text field will be displayed and any previously selected media files will not be displayed in the top banner. The text format can be edited as described in section 4.4.

Original Size. Selecting this option displays the image or flash object in its original size. The dimensions of the image depend on the size of your Touch Screen:

- **15" Touch Screens:** 1024 pixels wide by 100 pixels high.
- **22" and larger Touch Screens:** 1080 pixels wide by 100 pixels high.

Resize to fit. Selecting this option resizes the image or flash object to fit within the display area. For best results, the dimensions of the image should be proportional to the banner's original size (see the preceding parameter, **Original Size**).

3. Press **OK** to apply the settings and exit the Media Selection window session or press **Cancel** to exit without selecting the media file.

4. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Set the Bottom Banner

1. Select **Bottom Banner**. The Media Selection window appears.

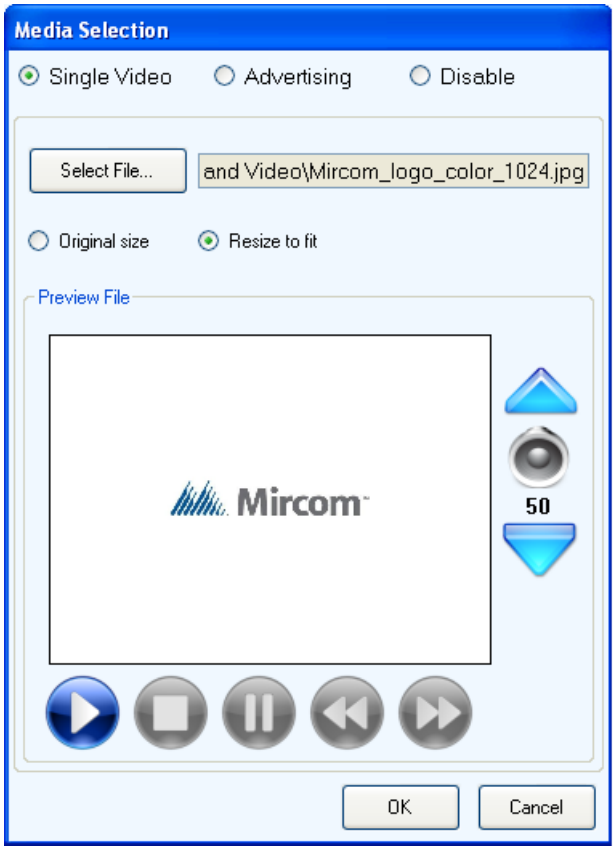


Figure 79. Touch Screen Bottom Banner

2. To determine how you want the video to display, define the following parameters:

   Single Video. To show a single media file on the bottom banner display select this option.

   Advertising. To show multiple media files on the bottom banner display select this option. Refer to section 4.6.

   Disable. To disable the bottom banner select this option.

   Select File. Press **Select File** to select a media file from a directory.

   Original Size. This option appears when image or flash file formats are selected. Selecting this option displays the image in its original size. The dimensions of the image depend on the size of your Touch Screen:

   - **15" Touch Screens:** 911 pixels wide by 230 pixels high.

- **22” and larger Touch Screens:** 960 pixels wide by 374 pixels high.

Resize to fit. This option appears when image or flash file formats are selected. Selecting this option resizes the image to fit within the display area. For best results, the dimensions of the image should be proportional to the banner’s original size (see the preceding parameter, **Original Size**).

3. To preview the selected media file use the video control buttons to play, stop, pause, rewind or fast forward.

4. To adjust the volume use the volume control buttons to the right of the media preview window.

5. Press **OK** to apply the settings and exit the Media Selection window session or press **Cancel** to exit without selecting the media file.

6. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Set the Screen Saver

1. Select **Screen Saver**. The Media Selection window appears.

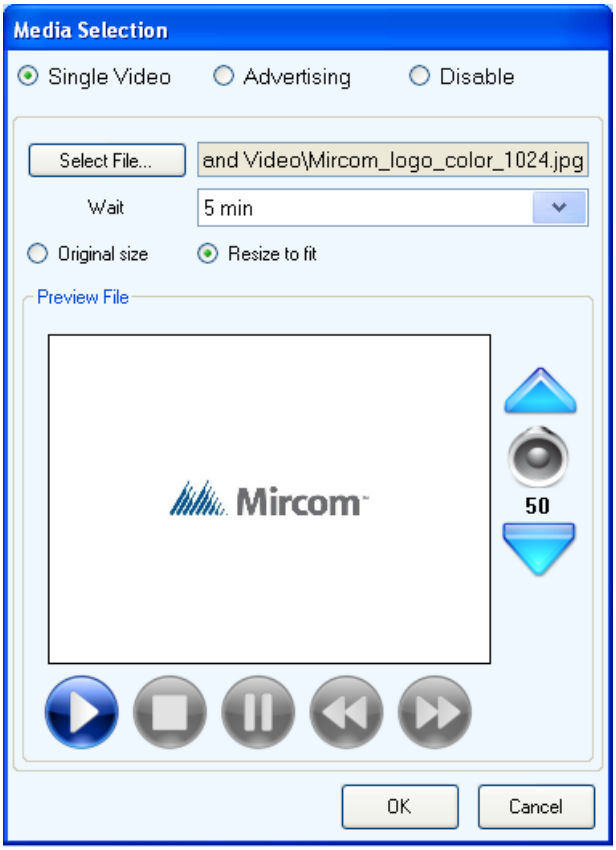


Figure 80. Screen Saver Options

2. To determine how you want the video to display, define the following parameters:

   Single Video. To show a single media file over the entire display while the screen saver is active select this option.

   Advertising. To show multiple media files on the over the entire display while the screen saver is active select this option. Refer to section 4.6.

   Disable. To disable the screen saver select this option.

   Select File. Press **Select File** to select a media file from a directory.

   Wait. Specify the amount of time before the screen saver begins playing.

   Original Size. This option appears when image or flash file formats are selected. Selecting this option displays the image in its original size. The dimensions of the image depend on the size of your Touch Screen:

- **15” Touch Screens:** 1024 pixels wide by 768 pixels high.
- **22” and larger Touch Screens:** 1080 pixels wide by 1920 pixels high.

Resize to fit. This option appears when image or flash file formats are selected. Selecting this option resizes the image to fit within the display area. For best results, the dimensions of the image should be proportional to the banner’s original size (see the preceding parameter, **Original Size**).

3. To preview the selected media file use the video control buttons to play, stop, pause, rewind or fast forward.

4. To adjust the volume use the volume control buttons to the right of the media preview window.

5. Press **OK** to apply the settings and exit the Media Selection window session or press **Cancel** to exit without selecting the media file.

6. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

4.6 Configure the Advertising Module

Note: In order to enable the advertising module, you must log into the Touch Screen terminal (section 2.14). To configure the advertising module, use the PC Configurator.

The advertising module is an optional addition to the TX3 Touch. It allows advertisements in the form of videos, images or animations to be displayed on the touch screen. Advertising media can play on the Main Video display, the Bottom Banner display and as a Screen Saver over the entire display.

The advertising module allows property managers to recoup the costs of their telephone entry and card access security system by selling advertising time on their Touch Screens in high traffic lobbies and entrance ways.

The subsequent sections explain the following configuration options:

- Enabling the Advertising Module
- Advertising Module Configuration
- Adding an Advertisement
- Editing an Advertisement
- Deleting an Advertisement
- Advertisement Priority Settings
- Advanced Advertisement Options
- Setting the Screen Saver Timer (Screen Saver selection only)

Enable the Advertising Module

To activate the software for the advertising module follow the steps below.

1. Log into the Touch Screen terminal (section 2.14).

2. From the menu at the top of the screen press **Help > Purchase Advertising Module**. The Purchase TX3 Touch Advertising Module window appears.

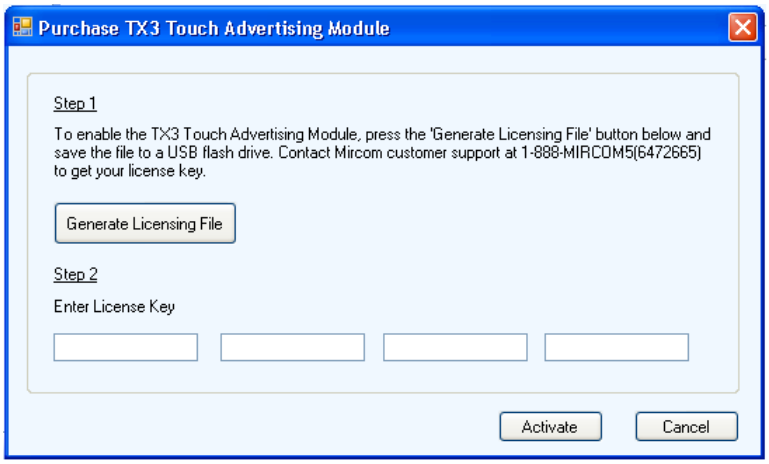


Figure 81. Activate Advertising Module

3. Press **Generate Licensing File**. The Save Advertising Licensing File window will appear.

4. Select a location to save the file and press **Save**.

Note: Remember where the licensing file is saved.

5. Once the licensing file has been saved contact customer support at the number provided on the Purchase TX3 Touch Advertising Module window or from the information provided in section 1.6.

6. Once customer support has been contacted a license key will be generated and provided to you. Enter the provided key into the Purchase TX3 Touch Advertising Module window. Press **Activate** to activate the advertising module.

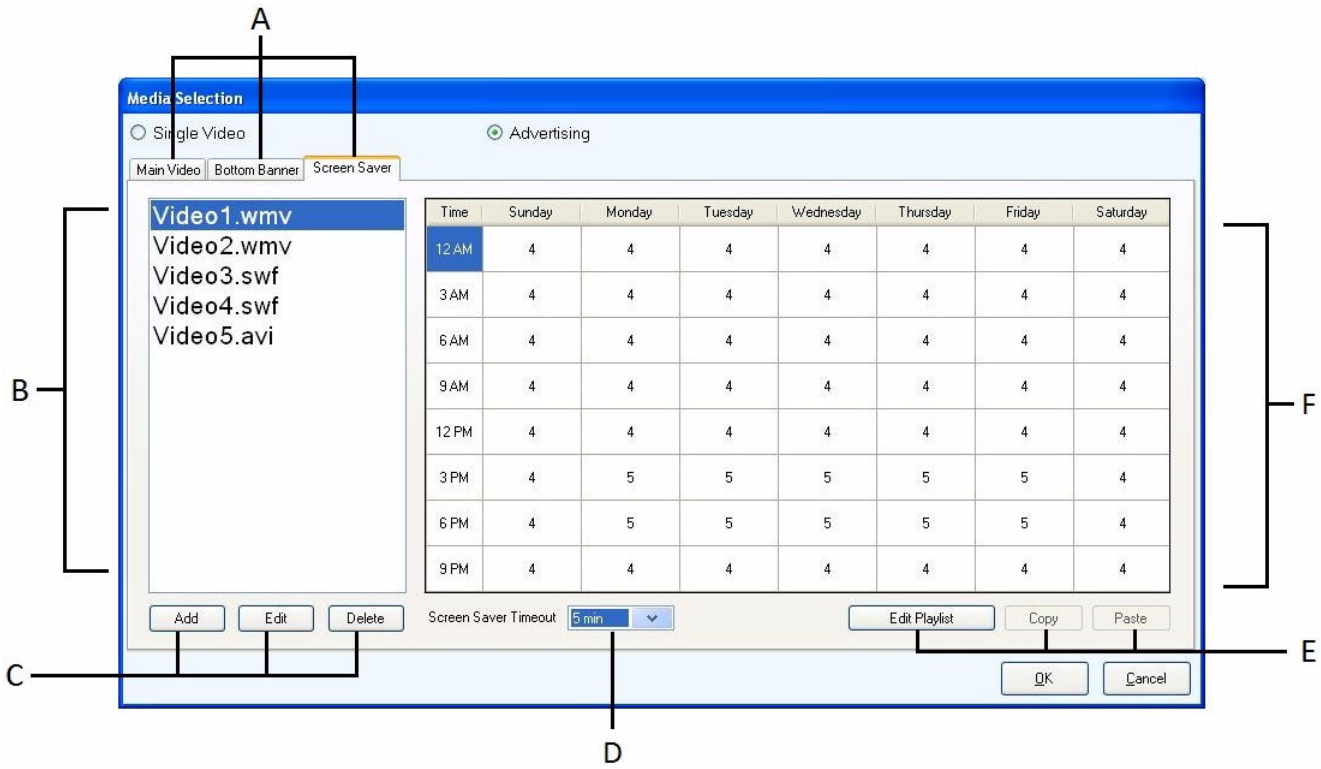
Note: The key is only valid for the unit for which the licensing file was generated. Each unit requires a separate key to activate its advertising module.

Configure the advertising Module

Note: To configure the advertising module, use the PC Configurator.

From the Videos and Banners tab the advertising module can be activated for the following selections: Main Video, Bottom Banner and Screen Saver.

All media files are listed in the Video Files list. The files in this list are played based on each file's associated schedule.



***A.** Video Location Tabs **B.** Video Files List **C.** Configuration Buttons*

Figure 82. Advertising Module Configuration Screen

The advertising module configuration screen has several components:

A. **Video Location Tabs.** Advertisements can be played on three screen locations: Main Video, Bottom Banner and Screen Saver. Select a tab to configure advertisement options for each screen location.

B. **Video Files List.** Media files are listed here. The files in this list are played during the three hour time slots that they have been assigned to in the scheduling window. See Scheduling Window.

C. **Configuration Buttons.** These buttons allow video files to be added, removed and configured.

D. **Screen Saver Timeout.** Determines how long the TX3 Touch software will idle before it enters Screen Saver mode.

E. **Playlist Editing Buttons.** These buttons configure the schedule by specifying the video rotation for each of the 3 hour time slots.

F. **Scheduling Window.** The Scheduling display screen lists the 7 days of the week, with each day consisting of 8 three hour time slots. Each cell shows the number of videos that will play during each of the 56 time slots. Once all of the videos in a time slot have played they will be looped until the time slot is over.

Once advertisements have been configured for each of the three selections, Main Video, Bottom Banner and Screen Saver, press **OK** to apply the settings and exit the Media Selection window session or press **Cancel** to exit without saving any changes.

Add an Advertisement

To add a media file to video files list follow the steps below.

1. Press **Add** and the Add New Advertising Media File Wizard appears.

Figure 83. Adding a Media File Part 1

2. Press **Select File** to select a media file from the directory. If an image or flash file format is chosen then options to keep the original size or resize the image or object to fit within the display will appear. Select the appropriate option.

Note: In addition to the other file formats, audio file formats **.wav** and **.mp3** are enabled for screensaver media file selection.

Note: If the dimensions for your image or flash file are not the same as the dimensions for the Main Video banner, the Bottom Banner or the Screen Saver, there may be some distortion when the image or flash file are displayed. See Table 1 for the dimensions of these areas.

3. To preview the selected media file use the video control buttons to play, stop, pause, rewind or fast forward.

4. To adjust the volume use the volume control buttons to the right of the preview file window.

5. Press **Next** to confirm the media file selection and continue to the next stage of the wizard or press **Cancel** to exit without confirming a selection.

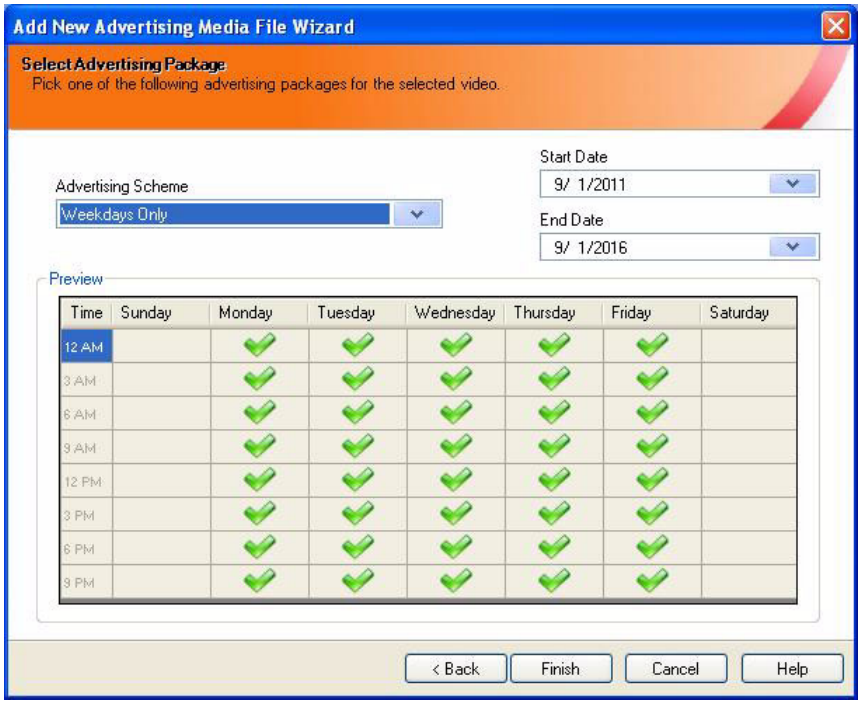


Figure 84. Adding a Media File Part 2

6. The schedule for the advertisement can be set to one of several preset times by using the Advertising Scheme drop down menu. The Start Date and End Date indicate when the advertisement will be added to and removed from the schedule rotation. Select the corresponding drop down menus to set them. The default setting will keep the file in the rotation for 5 years.

7. Press **Finish** to confirm the selection and exit the wizard, press **Back** to change settings or press **Cancel** to exit without confirming a selection.

Edit an Advertisement

Editing video file entries allows changes and updates to existing entries without having to create new entries. All the settings selected for the initial addition of the media file are saved including the associated scheduling settings. This is useful for quickly replacing an old advertisement with an updated version.

1. To edit an existing media file select the media file you would like to edit from the Video Files list then press **Edit**. The Edit an Media File window appears.

Figure 85. Edit an Advertising Video

2. The Start Date and End Date indicate when the advertisement will be added to and removed from the schedule rotation. Select the corresponding drop down menus to set them. The default setting will keep the file in the rotation for 5 years.

3. Press **Select File** to replace the current media file with another file from the directory. If an image or flash file format is chosen then options to keep the original image size or resize the image to fit within the display appear. Select the appropriate option.

4. To preview the selected media file use the video control buttons to play, stop, pause, rewind or fast forward.

5. To adjust the volume use the volume control buttons to the right of the preview file window.

6. Press **OK** to apply the selected settings and exit the Edit an Advertising Video window session or press **Cancel** to exit without saving any modifications.

Delete an Advertisement

1. To remove a media file from the video file rotation select the media file from the Video Files list and press **Delete**. A Delete File Confirmation box appears.

2. Press **Yes** to confirm the deletion or press **No** to cancel.

Set Advertisement Scheduling

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
12 AM	4	4	4	4	4	4	4
3 AM	4	4	4	4	4	4	4
6 AM	4	4	4	4	4	4	4
9 AM	4	4	4	4	4	4	4
12 PM	4	4	4	4	4	4	4
3 PM	4	5	5	5	5	5	4
6 PM	4	5	5	5	5	5	4
9 PM	4	4	4	4	4	4	4

Screen Saver Timeout 5 min Edit Playlist Copy Paste

Figure 86. Advertisement Scheduling Settings

For each time slot media files play in a repeating rotation for the duration of the time slot. Each time slot displays a number that represents the number of files currently in its rotation.

Each time slot requires separate configuration. To select a time slot press on the time slot. To configure the selected time slot press the **Edit Playlist** button. The Playlist Scheduling window appears.

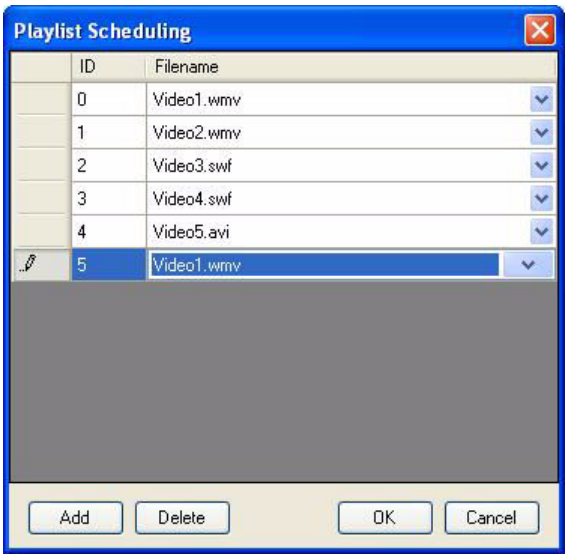


Figure 87. Playlist Scheduling

In the Playlist Scheduling window press **Add** to add an entry to the playlist for the timeslot. Once an entry has been added select the entry and use the drop down menu to set a specific media file for the entry. The media files available for selection are the same as the ones in the video files list in the Media Selection window. The same media file can be added multiple times in the playlist. An entry can be removed by selecting it and pressing the **Delete** button.

Press **OK** to apply the playlist schedule and exit the Playlist Scheduling window or press **Cancel** to exit without saving any modifications.

A playlist schedule can be copied from one time slot to another for quicker configuration. To copy a playlist schedule select the timeslot that contains the playlist then press **Copy**. Then select the timeslot that you wish to copy the play list to and press **Paste**. The Playlist Copy Options window appears.

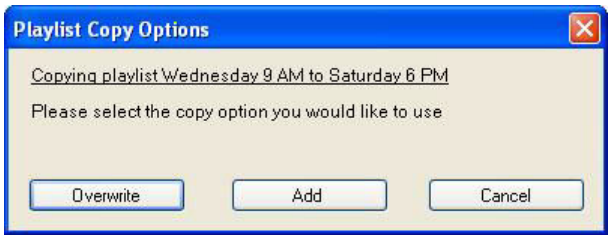


Figure 88. Playlist Copy Options

Press **Overwrite** if you wish to replace the schedule in the destination time slot with the schedule being copied. Press **Add** if you wish to include the schedule being copied to the schedule in the destination time slot. Press **Cancel** to return to the Media Selection window without copying.

Set the Screen Saver Timer

In the **Screen Saver Timeout** box press on the time that the TX3 Touch will idle for before entering Screen Saver mode. This option is only available in the Screen Saver tab.

Print an Advertising Report

1. Log into the Touch Screen terminal (section 2.14).

2. From the menu bar press **Reports > Advertising Report**. The Advertising Report Options window appears.

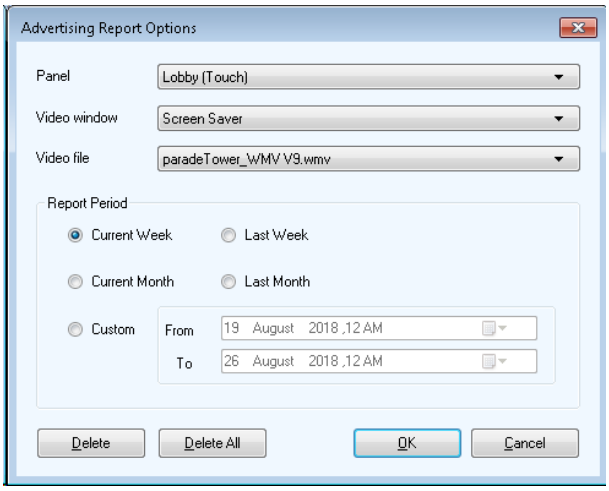


Figure 89. Advertising Report Options

3. Provide the following information:

   Panel. Select the panel that the advertisement plays on.

   Video window. Select the video window that the advertisement plays on.

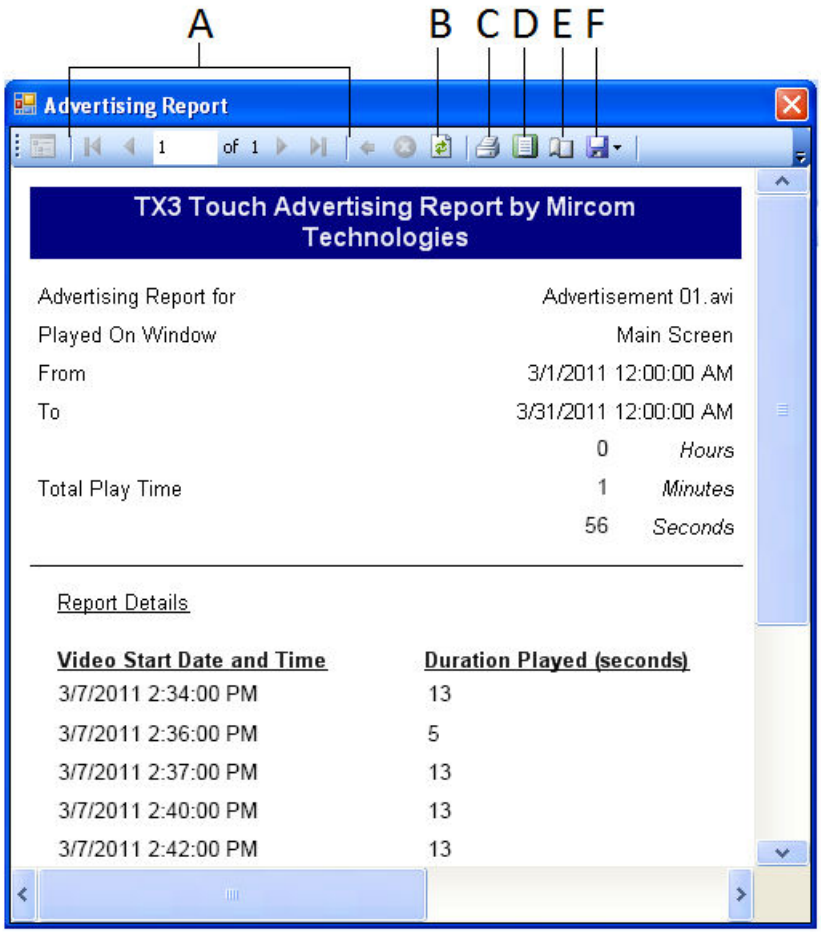
   Video file. Select the advertisement you want to print the report for.

   Report Period. Define the reporting period. Select from one of the four predefined periods: the **Current Week**, the **Current Month**, the **Last Week** and the **Last Month**. Once any of these four options are selected the date range will be defined in the greyed out **From** and **To** boxes. To define a custom date select **Custom**. Select the desired dates in the **From** and **To** boxes.

4. To delete the advertising record of the selected advertisement press **Delete**. A Delete Current Advertising Records box will appear. Press **Yes** to confirm the deletion or press **No** to cancel.

5. To delete the advertising records of all of the advertisements press **Delete All**. A Delete All Advertising Records dialogue box will appear. Press **Yes** to confirm the deletion or press **No** to cancel.

6. Press **OK** to generate an advertising report with the selected settings or press **Cancel** to exit. If **OK** is selected an Advertising Report preview window appears.



A. Browse or Select Pages **B.** Refresh **C.** Print **D.** Print Layout **E.** Page Setup **F.** Export

Figure 90. Advertising Report Preview Screen

7. The Advertising Report preview window shows how the report will appear. There are several options on the toolbar:

   A. **Browse or Select Pages.** Use these buttons to browse through each page of the advertising report.

   B. **Refresh.** Refresh the report preview.

   C. **Print.** If the TX3 touch is on the same network as a printer then the report can be printed directly from the touch screen.

   D. **Print Layout.** This option previews how the report will look when it is printed

E. **Page Setup.** If the TX3 touch is on the same network as a printer then page setup options can be customized.

F. **Export.** The advertising report can be saved as either a Microsoft Excel spreadsheet document format, **.xls**, or as an Adobe Acrobat portable document format, **.pdf**.

7. Once the advertising report has been printed or saved exit from the Advertising Report window by pressing the **Close** button at the top right and then exit from the Advertising Report Options window by pressing the **Close** button at top right again or by pressing **Cancel**.

8. Press **File**, then press **Exit without Send** to exit the session.

4.7 Modify More Options

More Options lets you specify more specific screen characteristics such as screen contrast, volume and other various user options, such as clock and email settings.

Configure More Options

1. From the Left Pane, select **Job > Network**.

2. Expand the **Network** tree.

3. Expand the panel entry for your Touch Screen, and then select **Touch Screen**.

4. In the Right Pane, select **More Options**.

The More Options window appears.

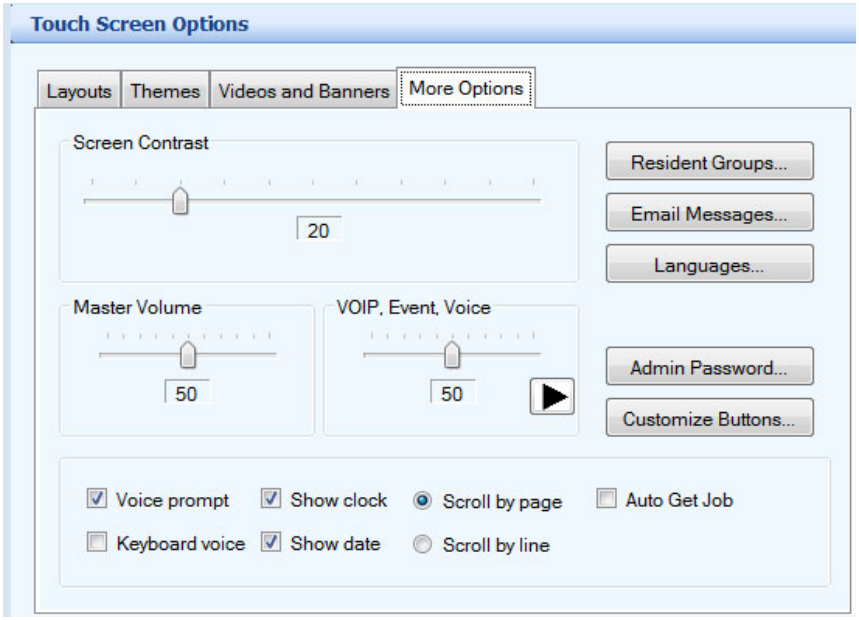


Figure 91. Touch Screen More Options

5. Define the following parameters:

Screen Contrast. Defines the brightness ratio of the lightest to the darkest part of the Touch Screen interface.

Master Volume. Defines the volume of the speakers for videos, event prompts, and VOIP calls.

VOIP, Event, Voice. Defines the volume of all notifications and VOIP calls as a percentage of the Master Volume. Select the play button to preview the volume level.

Note: If the Touch Screen has telephone access controller board model MD-1086, use these two volume controls only for notifications and VOIP calls (not telephone calls). Telephone call volume is controlled from **Panel Configuration** (section 5.1.2).

If the Touch Screen has telephone access controller board model MD-1245, use these two volume controls for notifications, VOIP calls, and telephone calls.

To determine which model of telephone access controller board you have, see section 12.1.7.

Voice prompt. Enables voice prompting for every selection.

Show clock. Enables the clock display.

Scroll by page. Enables page scrolling.

Keyboard voice. Enables the audible keystrokes.

Show date. Enables date display.

Scroll by line. Enables line scrolling.

Auto Get Job. This option applies to Touch Screens that are either Secondary Nodes or nodes on an RS-485 network and ensures that the Touch Screen database is up-to-date. When you select this option, the Touch Screen monitors its internal lobby board for any changes. When a change is made to the internal lobby board database, the Touch Screen automatically updates its own database. This option can only be enabled at the Touch Screen unit (section 2.14) or by connecting to the Touch Screen by Remote Desktop (section 4.9).

Note: Ensure the selected panel is configured, connected and assigned with a unique panel address.

6. Proceed with configuring the date and time, resident groups, email messages, language options, and the Admin password. For details on how to set these options, see sections 4.7.2, 4.7.2, 4.7.3, 4.7.4, and 4.7.5.

7. Press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

4.7.1 Set the Date and Time

Set the Touch Screen date and time in the Monitoring section of the Configurator. See section 12.1.1.

4.7.2 Configure Resident Groups

You may configure residents into specific groups by their dial codes using designated text and logos. This feature allows visitors to easily make a selection using the Group Buttons at the top of the user interface. Up to five groups may be created.

Configure resident groups

1. On the **More Options** tab, click **Resident Groups**. The Resident Groups window appears.

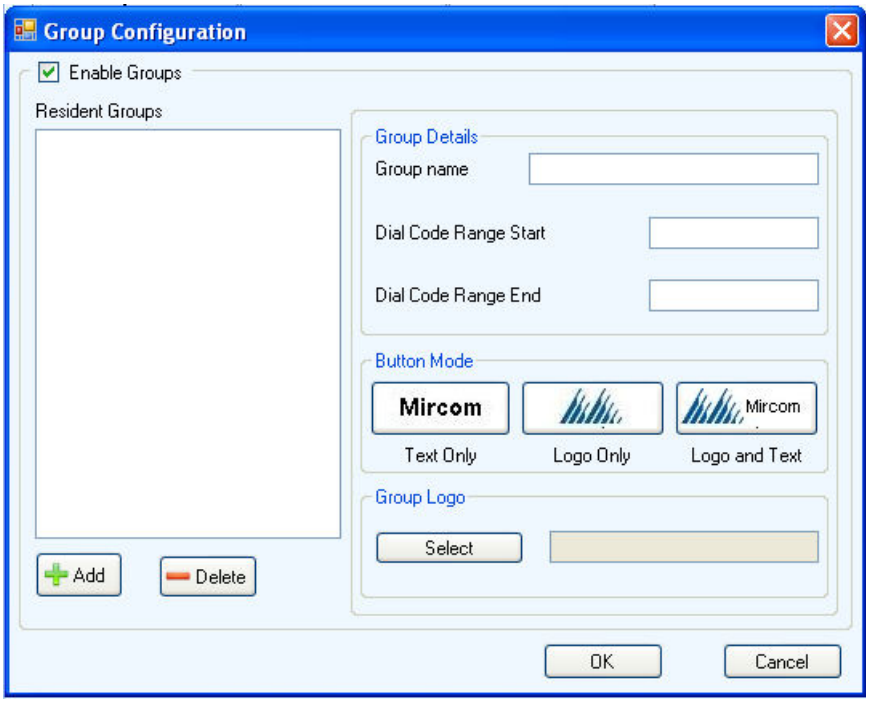


Figure 92. Group Configuration

2. Press **Add** to create a resident group. The default Group Name appears. Press **Delete** to delete an existing resident group.

3. Provide the following information:

   Enable Groups. Select this check box to enable resident grouping.

   Group name. Provide a group name.

   Dial Code Range Start. Enter the start value for the group dial code.

   Dial Code Range End. Enter the end value for the group dial code.

   Text Only. Select Text Only to display only the Group Name.

   Logo Only. Select Logo Only to display only the Logo.

   Logo and Text. Select Logo and Text to display both the Logo and Text.

   Group Logo. Select a logo for the group from a file.

4. Press **OK** to apply the settings and exit the Group Configuration window session or press **Cancel** to exit without saving the information.

5. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

4.7.3 Configure Email Messages

You may configure the email addressing feature and send a test message to verify the connection.

Configure email messages

1. On the **More Options** tab, click **Email Messages**.

   The Email Messages window appears.

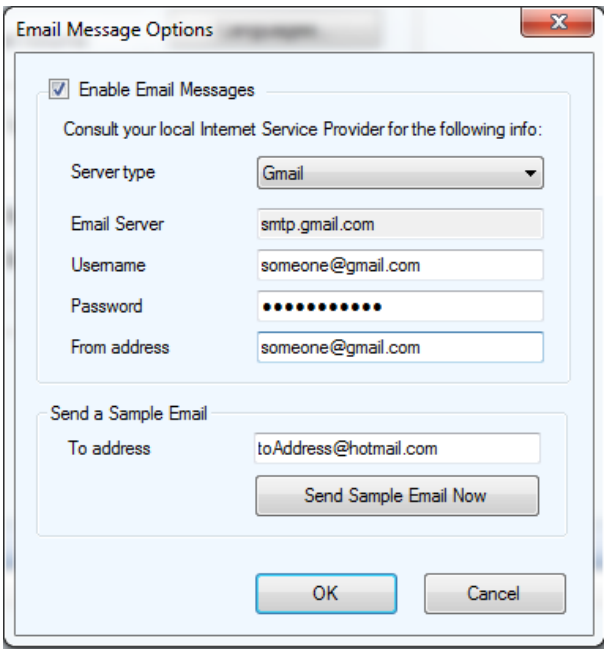


Figure 93. Touch Screen Email Messages

2. Provide the following information:

   Enable Email Messages. Select this check box to enable email messaging.

   Server type. (Version 2.3 and higher.) Select the server type: custom SMTP, Live (Hotmail), or Gmail.

   Email server (SMTP). Enter the email service provider IP address.

Username. Enter the user name.

Password. Enter the password.

From address. Provide the email address of the sender. This email address tells the receiver and the ISP provider who is sending the email.

Note: The **From address** is required.

To address. Enter the email address of the person you wish to send a test message to.

3. To verify that all of the email service parameters are correct, send a sample email message by pressing the Send Sample Email Message Now button.

4. Press **OK** to apply the settings and exit the Email Message Options window session or press **Cancel** to exit without saving the information.

5. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

4.7.4 Set Language Options

1. On the **More Options** tab, click **Languages**. The Language Editor window appears.

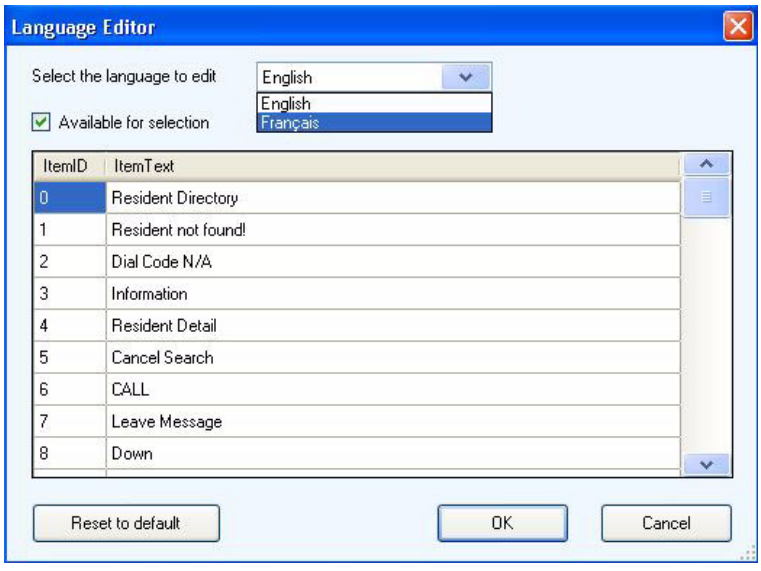


Figure 94. Language Editor

2. Select the language to edit using the drop down menu.

3. Once a language has been chosen it can be set as **Available for selection** using the check box. At least one language must always be set as **Available for selection** and by default this is English. If more than one language is set as **Available for selection** an option appears on the main Touch Screen display to choose between languages.

4. A list of messages are listed for each language. A message can be altered by pressing on the text once to select the message and then pressing on the text again to edit it.

Note: If you erase the message, then the associated element on the user interface screen is hidden.

5. Press **Reset to default** to restore all messages to their original content.

6. Press **OK** to apply the selected settings and exit the Language Editor window or press **Cancel** to exit without saving any modifications.

Figure 95. Language Selection

7. If multiple languages are enabled the main Touch Screen display will have a button to select between languages. This will replace the clock as shown in Figure 95. Press the language button and buttons appear for each language enabled then press the button corresponding to the language you wish to select.

Note: With multiple languages enabled the Touch Screen will prompt for a language choice each time the screen saver clears.

4.7.5 Set the Admin Password

The value stored in **Admin Password** is used by the TX3 Configurator to connect to a Touch Screen Main Node. This value must match the Touch Screen administrator password.

Note: Whenever you change the administrator password on a Touch Screen Main Node (section 2.6), you must make the same change to **Admin Password** for that Touch Screen Main Node in the PC TX3 Configurator.

Set the Admin Password

1. In the TX3 Configurator, on the **More Options** tab for the Touch Screen, click **Admin Password**.
2. Enter the administrator password for the Touch Screen in the box.
3. Click **OK**.

4.7.6 Customize Buttons

The functions of the **Call Reception** and **Leave Message** buttons on the Touch Screen main interface (Figure 69) are customizable. By default, the **Call Reception** button calls the guard phone. By default, the **Leave Message** button opens a window where the visitor can enter a message that is sent to the resident if Email Messages is configured (section 4.7.3).

You can configure these buttons to call a specific dial code instead.

Note: To change the text on these buttons, see section 4.7.4.

Customize buttons

1. On the **More Options** tab, click **Customize Buttons**.

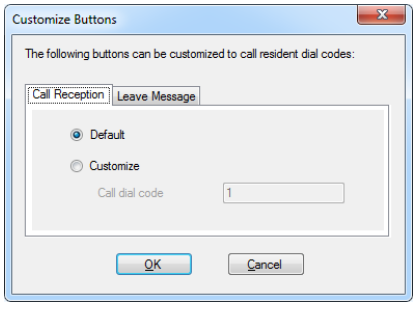


Figure 96. Customize Buttons

2. On the **Call Reception** tab, click **Customize**, then enter the dial code to call when a visitor presses the **Call Reception** button.

   Click **Default** to set the **Call Reception** button to call the guard phone.

3. Click the **Leave Message** tab, then click **Customize**, then enter the dial code to call when a visitor presses the **Leave Message** button.

   Click **Default** to set the **Leave Message** button to leave an email message.

4. Click **OK**.

4.8 Calibrate the Touch Screen

The TX3 Touch Screen does not require calibration for the initial setup. However, over time and with continued use it may require re-calibration. The resistive Touch Screen hardware is controlled by third party software from PenMount. Calibration cannot be performed remotely and must be performed locally at each terminal. This section explains how to calibrate the Touch Screen using the PenMount software.

4.8.1 Calibrate the 15” Touch Screen

The resistive Touch Screen hardware is controlled by third party software from PenMount. Calibration cannot be performed remotely and must be performed locally at each terminal. This section explains how to calibrate the Touch Screen using the PenMount software.

Enter the PenMount Control Panel

Log in to the Touch Screen

1. At the Touch Screen terminal, enter **9999**. The administrator password window appears.

2. Enter your administrator password, and then click **OK** (by default, there is no password).

3. From the menu bar select **File > Shut Down > Exit to Windows**. Press **Yes** to confirm.

4. Press twice on the **Desktop** icon in the upper left corner of the window.

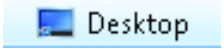


Figure 97. Desktop Icon

5. Press twice on the **PenMount Control Panel** icon.

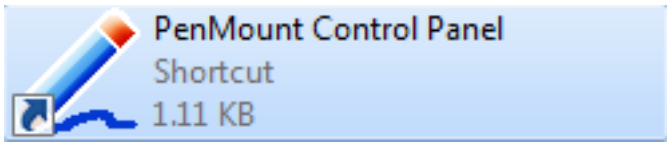


Figure 98. PenMount Control Panel Icon

The PenMount Control Panel appears.

Calibrate the Touch Screen

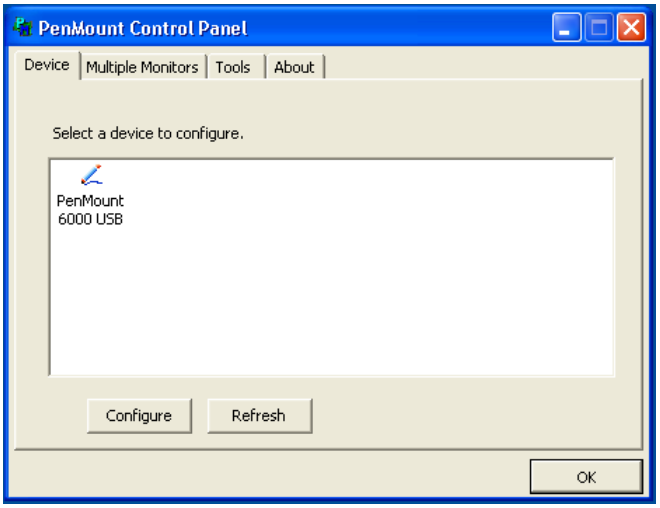


Figure 99. PenMount Control Panel

1. From the PenMount Control Panel select the device to configure in the Device tab. If the device does not appear ensure that it is connected and turned on, then press **Refresh**.

2. Once the device is selected press **Configure**. The Device Calibration window will appear.

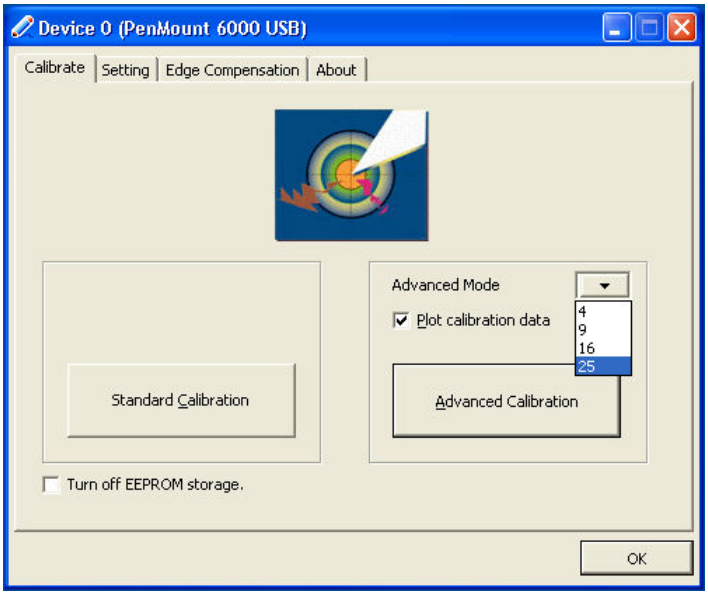


Figure 100. PenMount Device Calibration

There are two types of calibration options. For most Touch screens the **Standard Calibration** option is sufficient. However, over time, the **Advanced Calibration** option may be required. To perform standard calibration proceed to step 3. To perform advanced calibration skip to step 4.

3. To start standard calibration press on the **Standard Calibration** button in the Device Calibration window. The PenMount software will display a series of four red squares on the screen which must be pressed in sequence. Use your finger or a stylus to press each square. After each square is pressed calibration will complete. Skip to step 7.

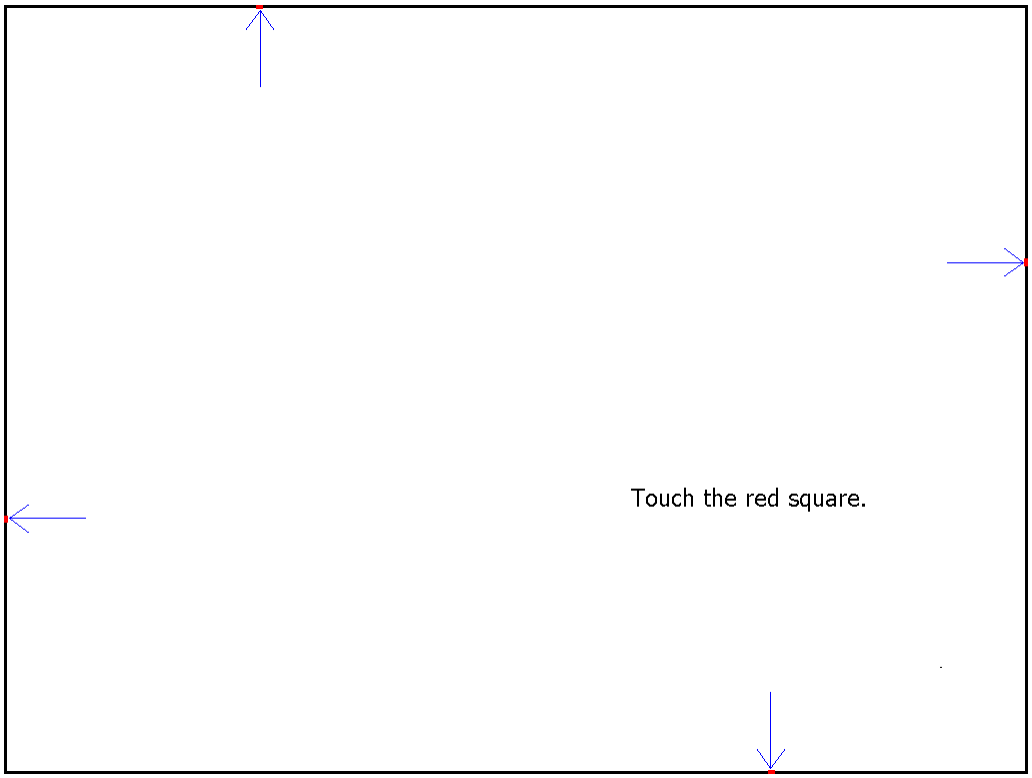


Figure 101. Standard Calibration

4. The Advanced Calibration option can be configured to use between 4 to 25 points of calibration from the Advanced Mode box in the Device Calibration window. Increasing this value increases the accuracy of the calibration. From the Advanced Mode box select the number of points of calibration to use.

5. The Plot Calibration Data option displays a linearity comparison graph after advanced calibration has been completed. Black lines on the graph indicate the ideal linearity while the blue lines show the calculated linearity. Select Plot Calibration Data to display this graph at the end of calibration.

6. To begin the advanced calibration select **Advanced Calibration** from the Device Calibration window. The PenMount software will display a series of red squares on the screen which must be pressed in sequence.

Use your finger or a stylus to press each square. A stylus is recommended for increased accuracy. After each square is pressed calibration will complete.

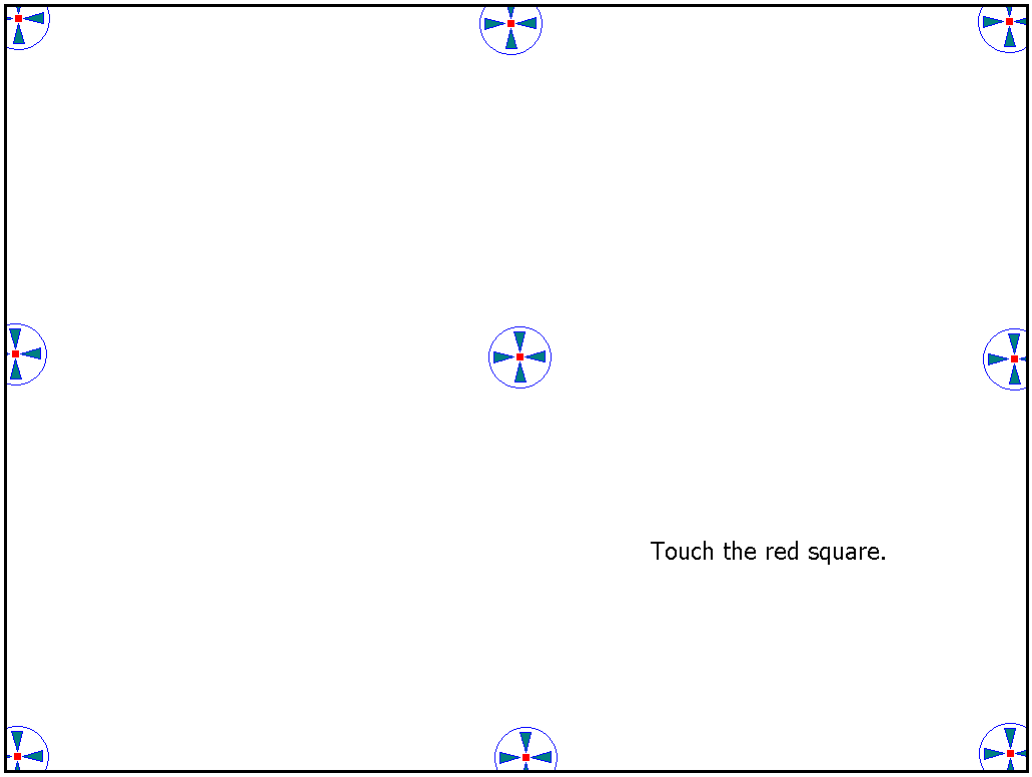


Figure 102. Advanced Calibration (9 Points)

7. Once calibration has been completed press **OK** in the Device Calibration window. Press **OK** again in the PenMount Control Panel. Quickly press twice on the TX3 Touch icon from the desktop to restart the TX3 Touch software.

4.8.2 Calibrate the 22" Touch Screens

Calibration cannot be performed remotely and must be performed locally at each terminal. This section explains how to calibrate the Touch Screen using the third party MT 7 software.

Enter the MT 7 Software Control Panel

1. At the Touch Screen terminal, enter **9999**. The administrator password window appears.

2. Enter your administrator password, and then click **OK** (by default, there is no password).

3. From the menu bar select **File > Shut Down > Exit to Windows**. Press `Yes` to confirm.

4. Press twice on the **Desktop** icon in the upper left corner of the window.

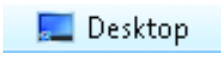


Figure 103. Desktop Icon

5. Press twice on the **3M Touch Calibration** folder.

6. In the **3M Touch Calibration** folder, press twice on the **Control Panel** icon.

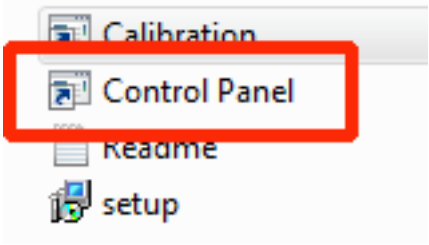


Figure 104. Calibration Control Panel

7. If a message appears saying that there is a problem with the shortcut, then follow the instructions starting at **Install the MT 7 Software Control Panel** on the next page.

   If the **Problem with Shortcut** window does not appear, then go to **Calibrate the Touch Screen** on page 129.

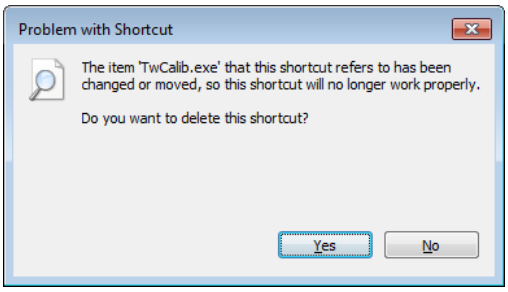


Figure 105. Problem with Shortcut

Install the MT 7 Software Control Panel

1. Connect a USB mouse to the Touch Screen.

Note: Connect a mouse because the touch functionality might stop working during this process.

2. Press twice on the **setup** icon.

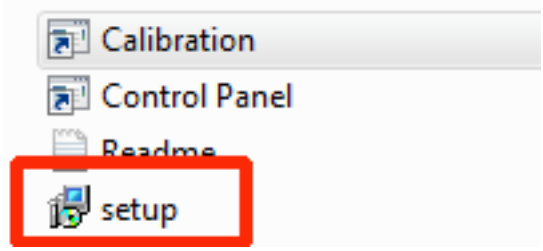


Figure 106. setup icon

The **MT for Windows Setup Wizard** appears.

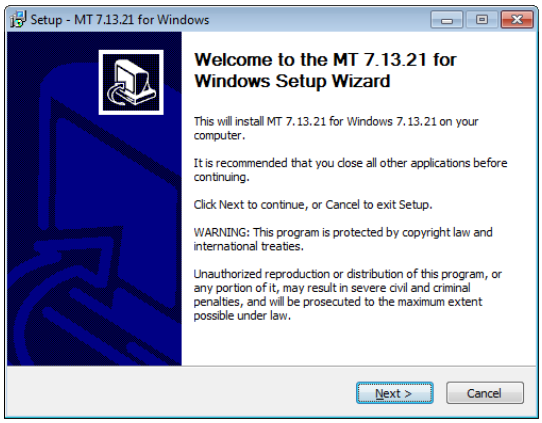


Figure 107. MT for Windows Setup Wizard

3. Scroll to the bottom of the agreement, select **I accept the agreement**, and then click **Next**.

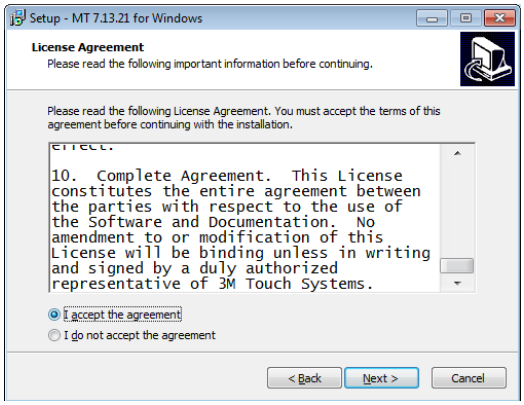


Figure 108. License Agreement

4. Follow the instructions to install the calibration software.

Note: Do not change any installation options.

5. After the installation is complete, press twice on the **Control Panel** icon.
6. Go to **Calibrate the Touch Screen** below.

Calibrate the Touch Screen

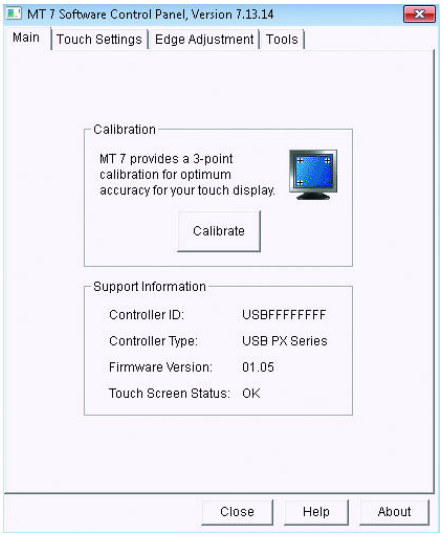


Figure 109. MT 7 Software Control Panel

1. From the MT 7 Software Control Panel, click **Calibrate**.

2. The MT 7 software displays a series of three green circles on the screen which must be pressed in sequence. Use your finger or a stylus to press and hold each circle for a second.

Touch the target for several seconds and then lift off.

Figure 110. Calibration on the 22" Touch Screens

If you do nothing, calibration will time out and the system will show the MT 7 Software Control Panel again.

3. Once calibration is complete, press **Accept**.

4. Press **Close** in the MT 7 Software Control Panel.

5. Press twice on the **Restart** icon to restart the TX3 Touch software.

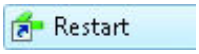


Figure 111. Restart Icon

4.9 Log into the Touch Screen Terminal Using Remote Desktop for Troubleshooting

Touch Screen provides you with a facility to access the application remotely using a Windows PC. This procedure is for troubleshooting.

Using remote access requires that the Touch Screen and all TX3 system components are networked.

Remote Access configuration of the Touch Screen also requires that you complete the configuration by sending the Job to the panel using the **Send** command and then restarting the PC using the **Restart PC** command from the menu bar.

Note: Do not use the **Send and Exit** command when using Remote Access.

Establish a remote connection

1. Type **Remote Desktop Connection** in the Windows Search box, then press Enter. The Remote Desktop Connection window appears.

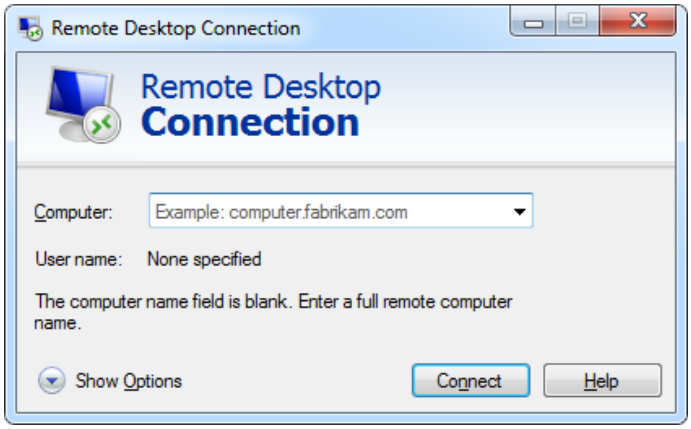


Figure 112. Remote Desktop Connection

2. Click Show **Options**. The Remote Desktop Connection Options window appears showing the General tab.

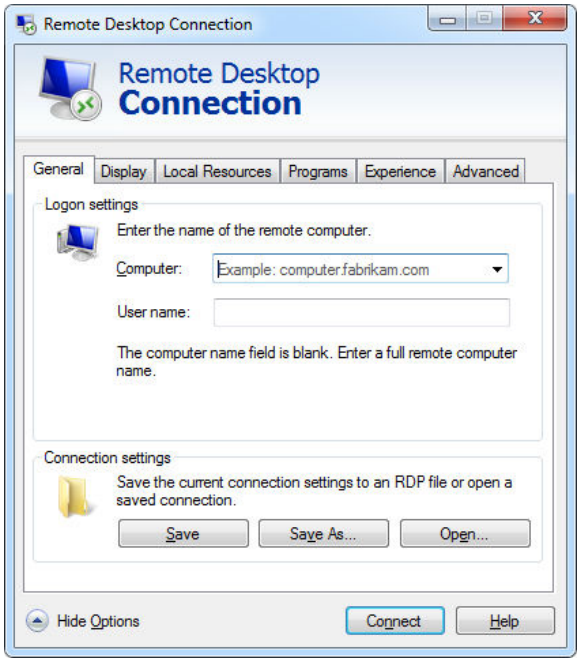


Figure 113. Remote Desktop Connection - General

3. Provide information for the following:

Computer. Enter the Touch Screen computer's IP address.

User name. Enter the user name, admin.

4. Click **Display**. The Display window appears.

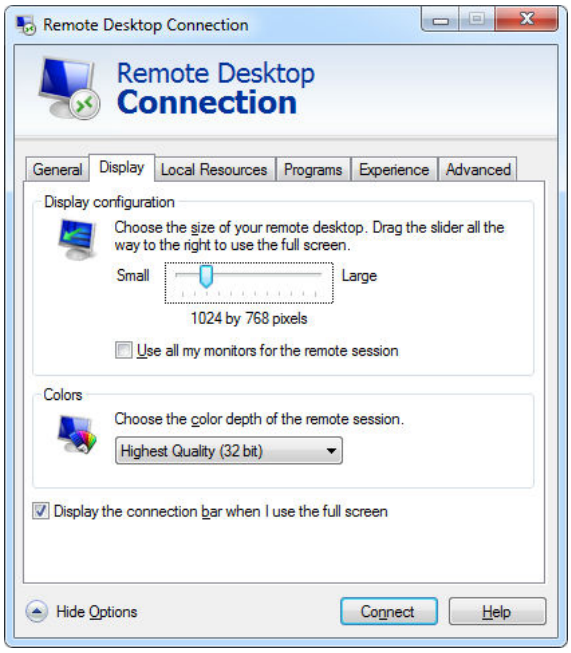


Figure 114. Remote Desktop Connection - Display

5. Set the remote desktop size to 1024 x 768 pixels by dragging the slider.

6. Click **Local Resources**. The Local Resources window appears.

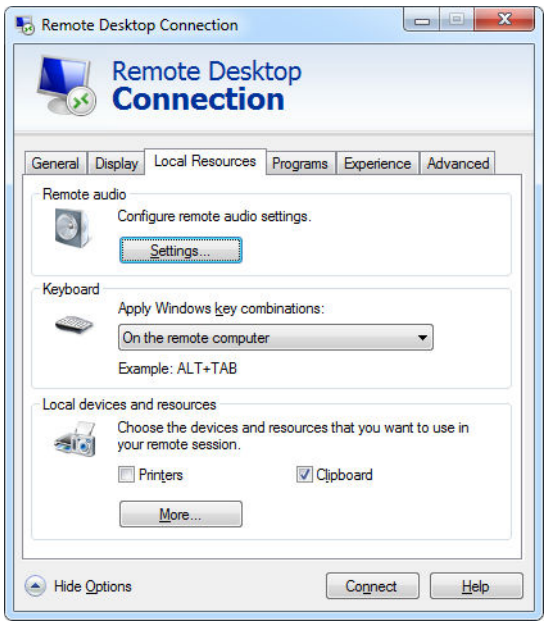


Figure 115. Remote Desktop Connection - Local Resources

7. Provide information for the following:

   Remote audio. Click **Settings**, then select **Play on remote computer**.

   Keyboard. From the drop down list select **On the remote computer**. This selection allows to use the Alt-Tab control.

   Printers. Uncheck **Printers**. Touch Screen is not connected to a printer.

   Clipboard. Enabling this selection lets you to use the clipboard.

8. In Local devices and resources, click **More...**. The Local devices and resources window appears.

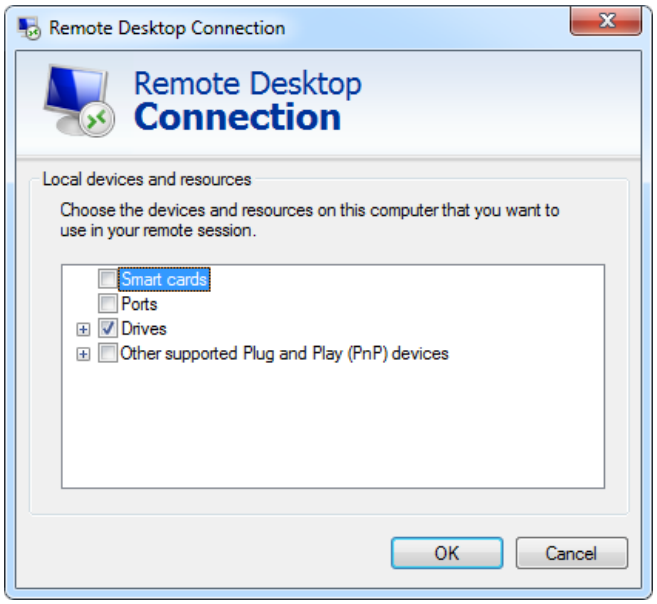


Figure 116. Remote Desktop Connection - Local Devices and Resources

9. Unselect the **Smart cards** check box.

10. Select the **Drives** check box. You can now copy files from the local PC to the remote PC.

11. Click **OK** to save the information and return to the previous window, or click **Cancel** to exit without saving the changes.

12. Click **General**. The General window appears (Figure 113).

13. Click **Save As...** to save this configuration to a file on the PC. For convenience save the file to the desktop.

14. Press **Connect**. The remote computer login window appears.

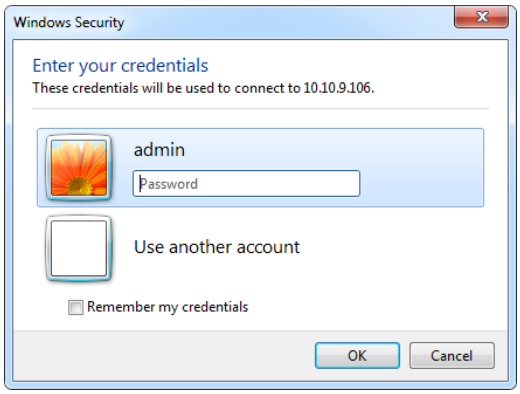


Figure 117. Remote Desktop Connection - Log On to Windows

15. Enter the Touch Screen administrator password and click **OK**.

    - With Touch Screen software below version 2.9.10, the password is blank.
    - With Touch Screen software 2.9.10 and above the password is blank if you have never changed the Touch Screen administrator password (section 2.6).
    - If you have Touch Screen software 2.9.10 and above and you have changed the Touch Screen administrator password (section 2.6), then Remote Access uses the same password.

    Once connected the remote desktop Touch Screen window appears giving you full control of the Touch Screen. In this mode Touch Screen is not accessible by visitors.

16. At the Touch Screen terminal, enter **9999**. The Touch Screen administrator password window appears.

17. Enter your Touch Screen administrator password, and then click **OK** (by default, there is no password). The Main Window appears. You are now ready to begin configuration.

18. Proceed with the configuration. Once completed click **Send**.

19. Click **File > Shutdown > Restart**. Touch Screen restarts in user mode and the Remote Access session ends.

End Remote Access at any time

To exit the Remote Access user session at any time, enter the configuration mode and click **File > Shutdown > Restart**.

5 Configure a Telephone Access System Panel

The TX3 Configurator lets you access, add and modify Telephone Access System panels. Once you connect to a building panel, you can begin configuration.

This chapter explains

- Configure a Telephone Access System Panel
- Configure Inputs
- Configure Outputs
- Establish Correlations
- Configure Residents

5.1 Configure a Telephone Access System Panel

Configuring a Telephone Access System panel sets the entry panel system parameters and establishes how inputs are labelled, assigned, defined and correlated with outputs.

By default Touch Screen has one Telephone Access System panel. Additional panels may be manually added to the network.

Note: When adding additional panels ensure the panel model you wish to add to the Job tree matches the panel you wish to connect to.

Configuring a Telephone Access System lets you:

- label a panel
- set the panel options
- define the phone lines as ADC or NSL
- set the resident telephone call controls
- define and assign inputs and outputs
- correlate events with actions
- create a schedule
- create passcodes
- create hold open times
- define a limit on postal lock usage
- set elevator usage if elevator controls are used
- set custom entry access codes

For information about the installation of the Telephone Access Systems, refer to the manuals shipped with the system and on the Mircom website (www.mircom.com).

5.1.1 Label a Panel

Labelling a panel lets you specify the panel name and establish its network address.

Label a panel

1. Select a panel. The Panel Configuration window appears.

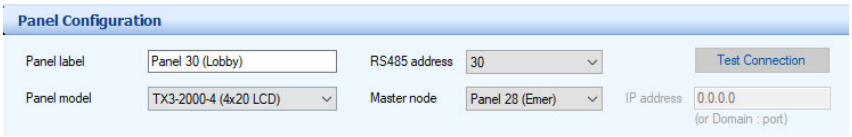


Figure 118. Panel Configuration

2. Provide information for the following:

   Panel label. Provide a name for the Panel.

   Panel model. The application automatically retrieves the selected panel model information. This field is read only.

   RS485 Address. Select the address that matches the RS-485 address of the Touch Screen's Telephone Access Controller Board.

3. Proceed with the rest of the configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

5.1.2 Configure Calls

Configuring calls lets you specify the call duration, number of rings and call scheduling.

Configure calls

1. Select **Calls** from the Panel Configuration window. The Calls window appears.

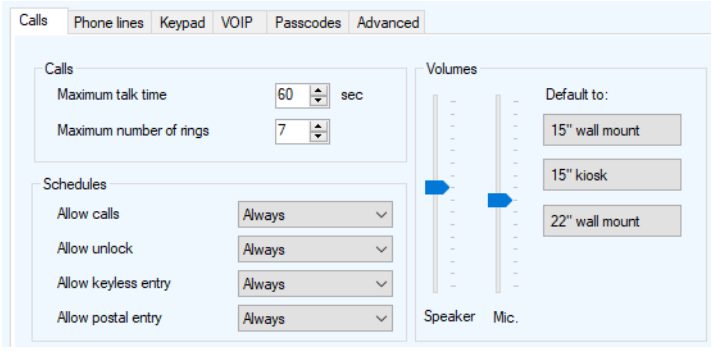


Figure 119. Panel Configuration - Calls

2. Provide information for each of the following:

   Maximum talk time. Specify the maximum time in seconds the visitor may communicate with the resident on a single call. After this time, the panel disconnects.

   Maximum number of rings. For NSL lines, specify the number of rings of each call before the panel reports no answer and hangs up. For ADC lines, this setting is not used and ring duration is determined by the maximum talk time.

   Allow calls. Use this selection to allow calls to the residents based on the selected schedule.

   Allow unlock. Use this selection to allow the resident to use their phone to unlock doors during a set schedule.

   Allow keyless entry. Use this selection to allow keyless entries during selected schedule.

   Allow postal entry. Use this selection to enable the postal lock during a set schedule.

   Speaker volume. Specify the panel speaker call volume.

   Microphone volume. Specify the microphone call sensitivity.

Note: On Touch Screens with telephone access controller board model MD-1086, use the speaker and microphone volumes only for telephone calls (not VOIP calls). Use the **Touch Screen Options** (section 4.7) to set the volume for notifications, event prompts and VOIP calls.

On Touch Screens with telephone access controller board model MD-1245, use the **Touch Screen Options** (section 4.7) to set the volume for notifications, event prompts and VOIP calls.

To determine which model of telephone access controller board you have, see section 12.1.7.

   Default to. (Version 2.3 and higher on Touch Screens only.) Click a button to set the optimal call volume settings for that type of Touch Screen unit.

3. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

5.1.3 Optimal Call Volume Settings

Table 2 shows the optimal call volume settings for different TX3 models.

The speaker and microphone volumes are used only for telephone calls, not VOIP calls. For volume for the videos, event prompts and VOIP calls see section 4.7.

Table 2: Optimal Call Volume Settings

Model	Speaker	Microphone
TX3-TOUCH-F22 TX3-TOUCH-S22	8	7
TX3-TOUCH-F15-A TX3-TOUCH-S15-A with MD-986 audio mixer board	4	8
TX3-TOUCH-F15-A TX3-TOUCH-S15-A with MD-1105 audio mixer board	7	10
TX3-200-8C-A TX3-1000-8C-A TX3-2000-8C-A	9	8

5.1.4 Configure Messaging

Messages is a Configurator feature that determines how messages and settings associated with a lobby panel appear on the LCD. This feature is not used by Touch Screen.

Configure messages

1. Select **Messages** from the Panel Configuration window. The Messages window appears.

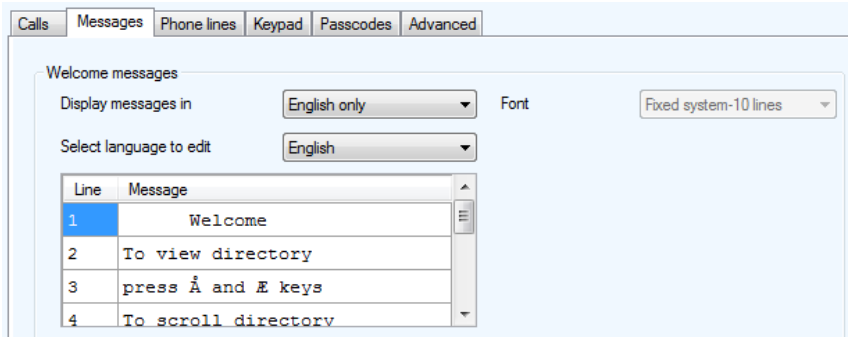


Figure 120. Panel Configuration - Messages

2. Provide information for each the following:

   Display messages in. Select the language to use for welcome messages. A multiple language selection scrolls sequentially through each message.

Select language to edit. Select the welcome message to edit based on language.

Font. Select the type of font to use when displaying welcome messages. This option is only available for the 8-line lobby unit model. This feature is not used by Touch Screen.

Welcome message lines. Welcome messages shows the instructions in the specified language. Use this area to make changes to the text. This feature is not used by Touch Screen.

The up arrow and down arrow symbols are represented in the Configurator with the following ASCII characters:

- **Up arrow: Å** (hold down the Alt key and type 0197 on the numeric keypad)
- **Down arrow: Æ** (hold down the Alt key and type 0198 on the numeric keypad)

These two characters will appear on the TX3 screen as the correct up and down arrow symbols.

3. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

5.1.5 Configure Phone Lines and Guard Phone

The Phone Lines window lets you select the telephone line type used by the lobby panel—either ADC or NSL. Up to five lines may be configured.

If a guard phone is installed with the system, in order to use it you must first activate the guard phone using this window. For a description on how to install and use the guard phone, see LT-969 TX3 Telephone Access System Installation and Operation Manual.

Configure phone lines

1. Select **Phone Lines** from the Panel Configuration window. The Phone Lines window appears.

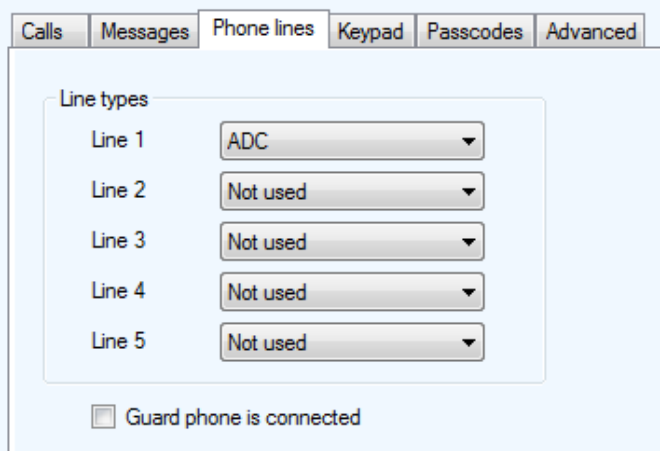


Figure 121. Panel Configuration - Phone Lines

2. Provide information for each the following:

   Phone lines. Select either **not used, ADC** or **NSL**.

   Guard phone is connected. Select this check box if the TX3-GPM Guard Phone Module is installed on this panel

3. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

5.1.6 Configure the Keypad

Configuring the Keypad lets you set permissions for the resident for opening doors, using call waiting and using the panel during calls.

Configure the keypad

1. Select **Keypad** from the Panel Configuration window.

The Keypad window appears.

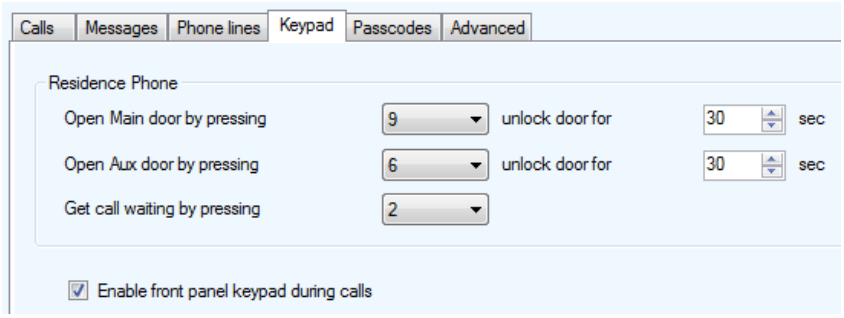


Figure 122. Panel Configuration - Keypad

2. Provide information for each the following:

Open Main door by pressing. Specifies which key on the resident's phone unlocks the main door.

Note: Do not select 4 (this is used to refuse entry or disconnect).

Do not use the same number for the main door, auxiliary door, and call waiting (call waiting works on NSL systems only).

Unlock door for. Specifies the time duration to unlock the main door.

Open Aux door by pressing. Specifies on Telephone Access Systems the key to press on the residence phone to unlock the auxiliary door.

Note: Do not select 4 (this is used to refuse entry or disconnect).

Do not use the same number for the main door, auxiliary door, and call waiting (call waiting works on NSL systems only).

Note: If the Telephone Access System Panel has controller board model MD-1245, do not select 1, 7, or * for **Open Main Door by Pressing and Open Aux Door by Pressing**.

To determine which model of telephone access controller board you have, see section 12.1.7.

Unlock door for. Specifies the time duration to unlock the auxiliary door.

Get call waiting by pressing. Specifies the key to press on the residence phone to connect to the lobby phone while on an outside call. Do not select 4. This is used to refuse entry or disconnect.

Note: **Get call waiting by pressing** works only on NSL systems.

Enable front panel keypad during calls. Selecting this check box allows the panel keypad to be used during a call.

3. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

5.1.7 Configure VOIP (SIP)

With software version 2.3 or later, you can configure the TX3 Touch Screen to make VOIP calls to residents using SIP (Session Initiation Protocol). SIP is a protocol for controlling phone or video messaging on an IP network. The TX3 Touch Screen is a SIP client and can communicate with other SIP clients through a SIP server.

5.1.7.1 Requirements

SIP works on the following models:

TX3-TOUCH-F15-C	TX3-TOUCH-F22-C	TX3-TOUCH-S15B-WR
TX3-TOUCH-F15-D	TX3-TOUCH-F22-D	TX3-TOUCH-S15S-WR
TX3-TOUCH-F15-E	TX3-TOUCH-F22-E	TX3-TOUCH-S15B-WR-A
TX3-TOUCH-S15-C	TX3-TOUCH-F22-F	TX3-TOUCH-S15S-WR-A
TX3-TOUCH-S15-D	TX3-TOUCH-S22-C	
TX3-TOUCH-S15-E	TX3-TOUCH-S22-D	
	TX3-TOUCH-S22-E	
	TX3-TOUCH-S22-F	

The 15 and 22 inch Touch Screens support the following codecs for SIP calls. The SIP server and other SIP clients must support one or more of these codecs to work with the TX3 Touch system. SIP on the Touch Screens is compatible with Mircom's Unified Building Solution, and the MiEntry mobile app.

- Audio codecs: G.722-64k, G.722.2, G.722.1-32K, G.722.1-24K, G.711-ALaw-64k
- Video codecs: H.263, H.263plus

5.1.7.2 Configure SIP

To set up SIP, you need:

- The IP address or URL of the SIP server.
- The proxy IP address or URL of the SIP server (also called outbound proxy). Not all SIP servers require this.
- The SIP username, SIP password, and authorization ID (also called authorization username) of the Touch Screen. These are configured in the SIP server. Not all SIP servers require an authorization ID.
- The SIP username of each resident.

Configure SIP

1. Select the panel in the job tree.
2. Click **VOIP** from the Panel Configuration window.

   The VOIP window appears.

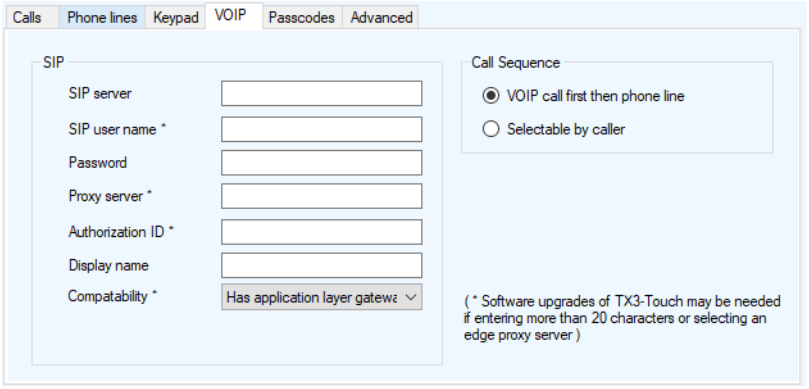


Figure 123. VOIP

SIP server. The URL of the SIP server.

SIP username. The SIP username of the Touch Screen.

Password. The SIP password for the Touch Screen.

Proxy server. The proxy server (also called outbound proxy) required by the SIP server. This is required by Mircom SIP Service. Other SIP services may not require it.

Authorization ID. The authorization ID (also called authorization username) for the Touch Screen. This is required by Mircom SIP Service. Other SIP services may not require it.

Display name. This name appears on the resident's SIP phone when the Touch Screen calls the resident.

Compatibility. Usually, leave this option at the default (**Has application layer gateway**). This indicates that your network's router has a SIP Application Layer Gateway enabled.

Call sequence. If you select **VOIP call first then phone line**, the Touch Screen will try to call the resident's VOIP number first when a visitor makes a call. If you select **Selectable by caller**, the Touch Screen will prompt the visitor to select either VOIP or PSTN when the visitor makes a call.

Note: The **VOIP call first then phone line** option works only if both a VOIP account and phone line are configured for the resident.

Set up a resident's SIP account

1. Click **Residents** in the job tree.
2. Select the resident that you want to set up.
3. Click **Edit/Edit Residents**.
4. Click the **VOIP** tab.
5. Type the SIP username of this resident in the **SIP username** field.

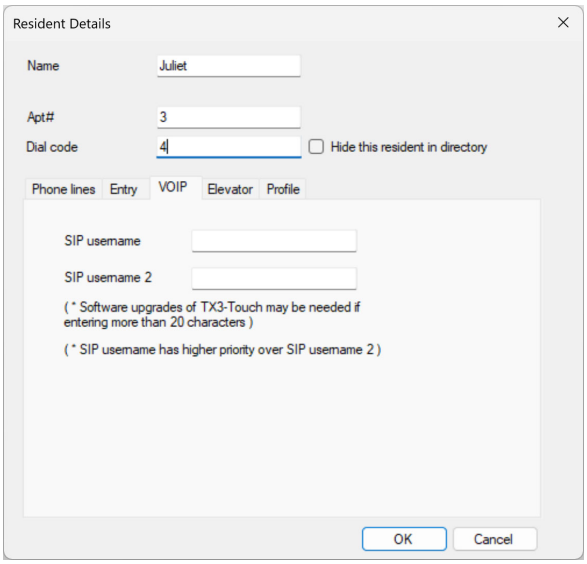


Figure 124. Resident VOIP Setup

6. Click **OK**.

Call a resident's SIP username

1. From the main Touch Screen display (see Figure 69), select the resident's name, and then select **Call**.

2. If **Selectable by caller** is selected under **Call Sequence** in the VOIP window (page 146), a window appears with the buttons **Voice Call** and **VOIP Call**. Select **VOIP Call**.

5.1.8 Configure the Passcode

Passcodes let you define and set the code to permit panel access. There are three levels of access. Panel passcode levels 1 and 2 are set by Touch Screen. Passcode level 3 is read only and is initially set at the panel. All passcodes are 10 digits long.

Configure the panel passcode

1. Select **Passcode** from the Panel Configuration window. The Passcode window appears.

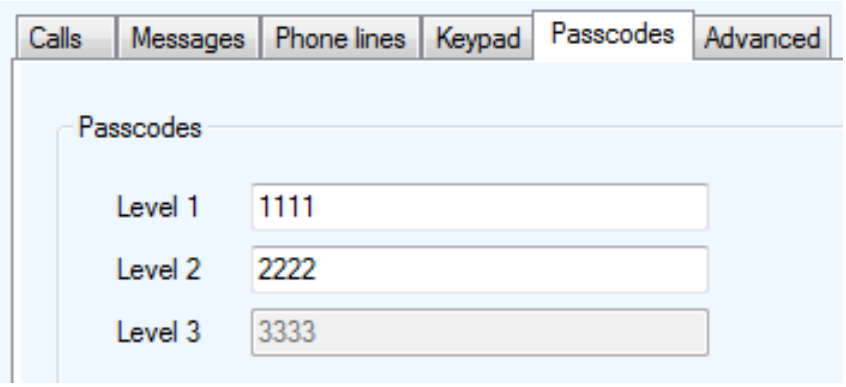


Figure 125. Panel Configuration - Passcodes

2. Provide a permission code for each the following:

   Level 1. *future use*.

   Level 2. Level 2 provides access to operations without configuration privileges.

   Level 3. Level 3 grants full panel access and is read only. It is initially set at the panel, but can be changed afterwards using the Monitoring provision (See section 12.1.1). The level 3 passcode is also the network passcode.

3. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Note: At any time if you lose or forget the passcode, call Technical Support to receive a temporary passcode. This temporary passcode is only valid for the day it is issued.

5.1.9 Configure Advanced Functions

Advanced Functions lets you set the date and time for the panel and specify the main door unlock schedule, elevator restriction time, postal lock use, phone line type and display scroll speed.

The elevator restriction feature limits building accessibility by granting visitor access only to the destination floor. This prevents the visitor from accessing non-designated floors.

The date and time option lets you set the panel clock according to the PC clock.

If installed the postal lock provides mail carriers access to the building. The building administrator arranges for the installation of this lock with the post office and defines its usage on a daily or indefinite basis. The “Postal Usage” function lets you define the maximum usage for the postal lock.

Configure advanced functions

1. Select **Advanced** from the Panel Configuration window. The Advanced window appears.

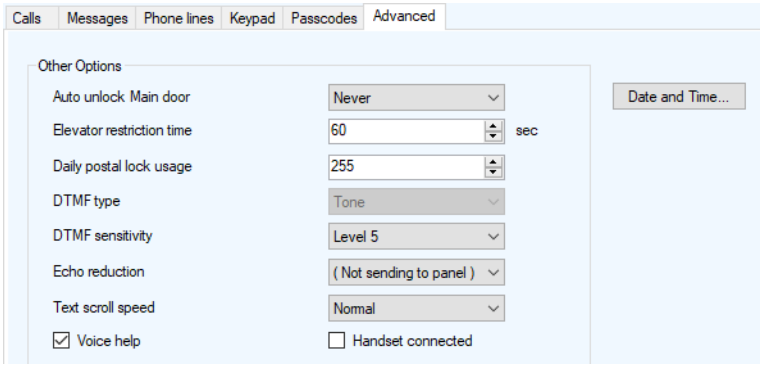


Figure 126. Panel Configuration - Advanced

2. Provide information for each the following:

   Auto unlock Main Door. Use this selection to unlock the main door based on the selected schedule.

Elevator restriction time. Specifies the amount of time an elevator is accessible for a visitor after the resident grants access. See section 11.

Daily postal lock usage. Specifies the daily limit for postal access. The range is 1 to 254 and the default is 4. For unlimited usage set the value to 255.

DTMF type. This is set to **Tone** and is not configurable.

DTMF sensitivity. Set the sensitivity to a level between 1 to 8. The default is 5. Lower sensitivity levels reduce interference from nearby cell phones

Echo Reduction. Select a setting to enhance call clarity by reducing the echo in the room.

Text scroll speed. Specifies the scroll speed for the resident record directory display on Telephone Access System panels. This option is not available on Touch Screen.

Voice help. Select this check box to enable voice help for the Telephone Access System.

Handset. Select this if a handset is connected to the Lobby Control Unit.

3. Proceed with configuring the Date and Time or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Set the date and time

1. Click **Date and Time**. The Date and Time Options window appears.

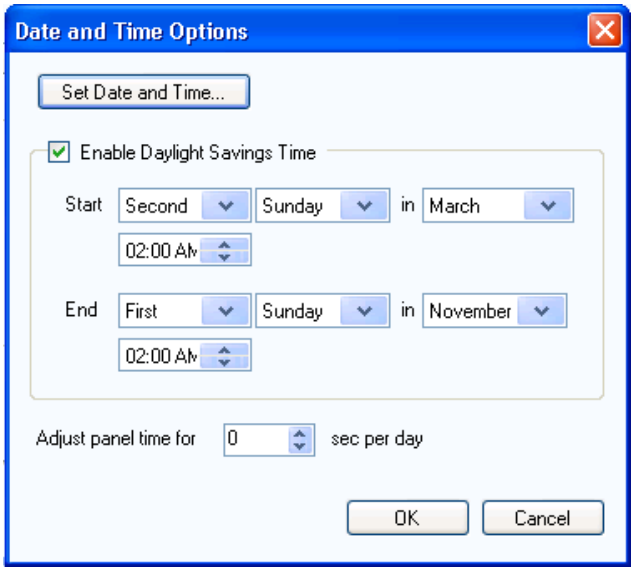


Figure 127. Date and Time Options

2. Provide information for the following parameters:

   Set Date and Time. Selecting this option lets you set the panel clock to a time other than the PC clock. Every time you access the Set Date and Time window the current PC time appears.

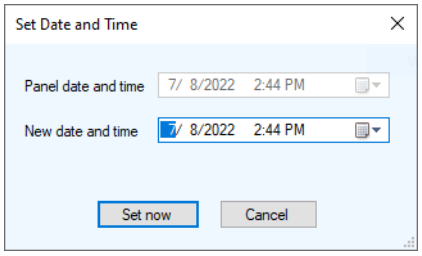


Figure 128. Set Date and Time

   Enable Daylight Savings Time. Select this check box to enable daylight saving time. When enabled provide the daylight savings start and end time for the local area.

   Adjust panel time for. Provide a value to compensate for the daily drift away from the true time.

3. Click **OK** to save the information and return to the configuration window, or click **Cancel** to exit without saving the changes.

4. Click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

5.2 Configure Inputs

Inputs 1 to 5 are assigned specific functions. Inputs 1 to 3 have pre-defined functions and connect to specific devices. Inputs 4 and 5 are general purpose inputs that can be manually assigned (correlated) to activate a general purpose output.

The application automatically senses the on/off status of connected components. In order to accurately monitor the functional state of the panel inputs, you must first define the electrical circuit characteristics of the input.

5.2.1 Inputs 1 to 5

Inputs 1 to 5 are designated as follows:

Input 1. Input 1 connects to the Postal Lock. Activation of this input unlocks the main door and starts the main door timer. The door locks when the timer expires or when the door sense input is activated. Daily usage is limited according to a pre-defined amount. Any attempt to use the postal lock beyond

this point causes a warning message to appear and the system to return to normal operation. Input 1 can also, when configured, activate a general purpose output to perform any required function.

Input 2. Input 2 connects to the fire alarm panel and receives fire notification. Activation of this input unlocks the main and auxiliary doors. These outputs are active as long as the fire panel input is active. Input 2 can also, when configured, activate a general purpose output to perform any required function.

Input 3. Input 3 connects to the door sense switch. Unlocking the main door activates the main door open timer. Activation of the Main Door Sense locks the main door and resets the main door open timer. This function is typically used to prevent 'tailgating'. Input 3 can also, when configured, activate a general purpose output to perform any required function.

Input 4. Input 4 is a general purpose input that, when configured, activates a general purpose output to perform any required function.

Input 5. Input 5 is a general purpose input that, when configured, activates a general purpose output to perform any required function.

Configure inputs

1. Select **Inputs/Outputs**. The Inputs/Outputs Configuration window appears.

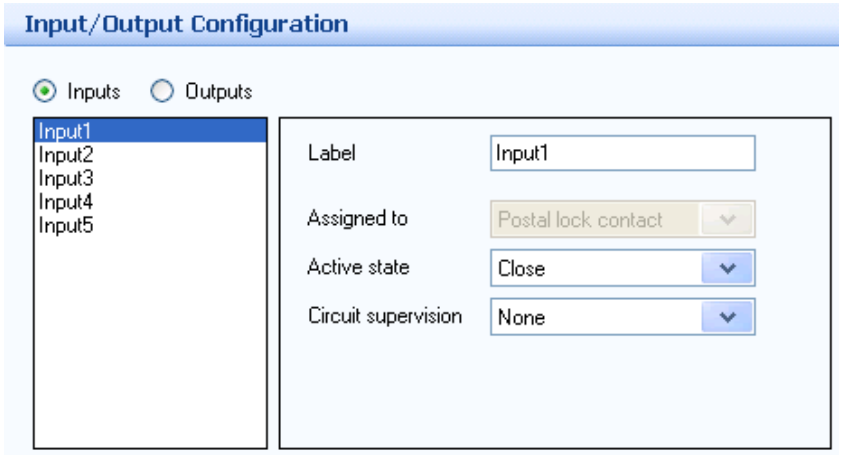


Figure 129. Input Configuration

2. Click **Inputs**. A list of the panel inputs appears.

3. Select an input and provide information for the following parameters:

   Label. Use this text box to provide a label name for this panel input. This information is not stored in the panel and reverts to the state when a Job is retrieved from the panel.

Assigned to. Assigned to contains a drop-down list of all assigned inputs. This option is read only on Telephone Access System panels.

Active state. Active state specifies the state by which it is considered active. Two selections are presented. Select one of the following:

Open

Close

Circuit supervision. Circuit supervision specifies the circuit type and indicates whether the input is supervised. Select one of the following:

None

Open circuit

Short circuit

Open and short circuit

4. Click **Add** to add the panel and return to the configuration window, or click **Close** to exit without saving the changes.

5.3 Configure Outputs

Outputs are programmed for specific functionality, such as specific delay and on/off times.

The Telephone Access System has the following four panel outputs:

Output 1. Output 1 is a dedicated output that controls the relays for the AC and DC main door lock strikes.

Output 2. Output 2 is a dedicated output that controls the relay for the auxiliary door lock strike.

Output 3. Output 3 is a general purpose output that performs any required function.

Output 4. Output 4 is a general purpose output that performs any required function.

Configure outputs

1. Select **Inputs/Outputs**. The Inputs/Outputs Configuration window appears.

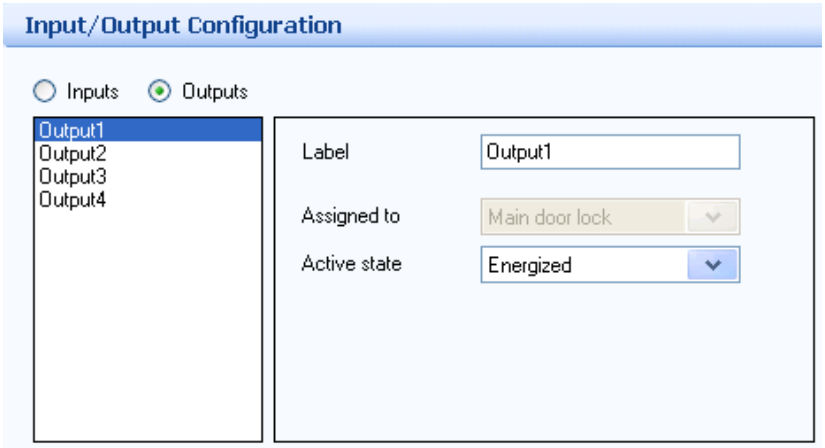


Figure 130. Output Configuration

2. Click **Outputs**. A list of the panel outputs appears.

3. Select an output and provide information for the following parameters:

   Label. Use this text box to provide a label name for this panel output. This information is not stored in the panel and reverts to the default state when a Job is retrieved from the panel.

   Assigned to. Assigned to designates the panel output to the device. From the list select a device. This option is read only on Telephone Access System panels.

   Active state. Active state specifies the state by which it is considered active. Two selections are presented. Select one of the following:

   Energized. When the device is energized it is considered to be active.

   De-energized. When the device is de-energized it is considered to be active.

4. Click **Add** to add the panel and return to the configuration window, or click **close** to exit without saving the changes.

5.4 Establish Correlations

Correlations let you establish specific relationships between panel inputs (events) and outputs (actions). Use Correlations to specify the relationships between events, actions and schedules.

Note: All inputs, outputs and schedules must be defined before applying correlations.

The application shows a list of correlations currently configured to the panel. A check box appears besides each active correlation. When unchecked, the correlation is inactive.

You can apply a correlation to a specific panel, to all the panels on the network, or to a custom correlation target (if you are connected by TCP/IP).

Create a correlation

1. Select **Network > Panel > Correlations**. The Correlations Configuration window appears in the Right Pane.

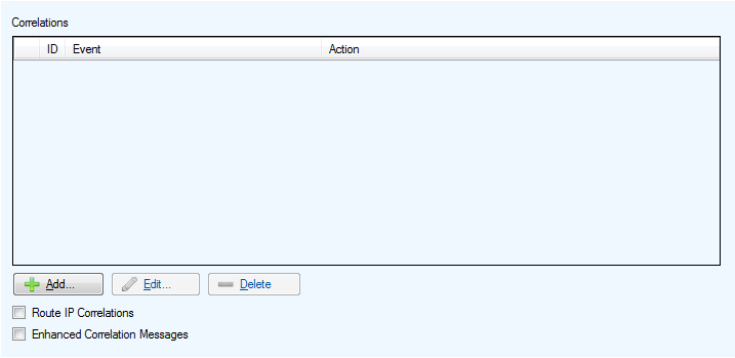


Figure 131. Correlation Configuration

2. **Route IP Correlations.** If the panel is a Touch Screen, there is a **Route IP Correlations** checkbox. If the Touch Screen is a Main Node connecting two RS-485 networks, it does not route correlations from one network to the other by default. Select this checkbox to make the Touch Screen share correlations between RS-485 networks.

   You can have more than one Touch Screen Main Node on the same RS-485 network, but only one Touch Screen Main Node can have this option selected.

3. **Enhanced Correlation Messages.** If the firmware in the job is 3.5 or above, select this option. If the firmware is lower than version 3.5, unselect this option.

4. Click **Add**. The Add Correlation window appears.

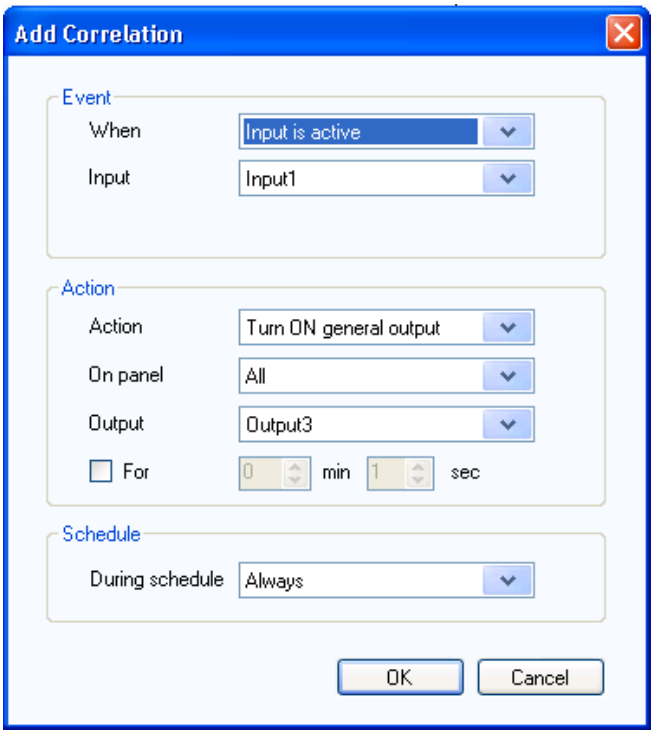


Figure 132. Add Correlation

5. Enter the following parameters:

When. This parameter defines the input event that activates an output action. Select one of the following:

Input is active. Select a panel input from 1 to 5 as defined in section 5.2.

Input is normal. The general purpose input becomes inactive.

Call Started. A call to a resident is placed from the lobby.

Call finished. A call to a resident ends.

Call is connected. A call is established.

Access is granted. Resident grants access using their telephone keypad.

Access is denied. Resident denies access.

Action. Action specifies the type of action to occur for a specific input. Select one of the following:

Turn ON output

Turn OFF output

Call Dial Code. Call the dial code 9991 or 9992. This is used for the emergency phone. See LT-6113 TX3 Emergency Phone Installation and Operation Manual on http://www.mircom.com.

On panel. On panel applies the action either to one of the panels on your system or to a group of panels on your system. If, for example, you have two panels (Panel1 and Panel2) in your TX3 system, you could select from the following options:

Panel1 - Apply the correlation to Panel1 only.

Panel2 - Apply the correlation to Panel2 only.

All - Apply the correlation to all Telephone Access, Card Access, and Touch Screen panels on the network.

Custom - Apply the correlation to a custom target. This option is only available for TCP/IP network connections. When you select this option, you can click on the **Custom** button to select from the following custom targets:

- **All panels on the RS485 network of the Master Node** (select a Main Node from the list)
- **All Master Nodes only**
- **All panels with RS485 address** (select the address from the list)

Note: Correlation signals are not transmitted by Touch Screen Main Nodes by default. If you plan on using the **All** or **Custom** correlation options, select the **Route IP Correlations** checkbox on one of the Main Nodes. See section 5.4.

Nano - Apply the correlation to a TX3 Nano. This option is only available for TCP/IP network connections. When you select this option, you can click on the **Nano** button and enter the IP address of a TX3 Nano. Click **Find** to find any TX3 Nanos on the network.

Output. Output applies the action to a specific output on the panel. Select one of the following:

Output3

Output4

For. For represents the duration of the action in minutes and seconds up to a maximum of 600 minutes. Uncheck the box if you want the action to continue indefinitely.

During schedule. This parameter lets you apply this correlation to a schedule. The two default selections (Always and Never) and any previously defined schedules are presented.

6. Click **OK** to save the information and return to the configuration window, or click **Cancel** to exit without saving the changes.

Edit a correlation

1. Select a correlation and press **Edit**. The Edit Correlation window appears.
2. Provide the information as you would when creating a correlation.
3. Click **OK** to confirm the edit or **Cancel** to exit and return to the previous window.

Delete a correlation

1. Select a correlation and press **Delete**.
2. Click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Activate a correlation

1. Click on the checkbox beside the correlation.
2. Click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

5.5 Configure Residents

Residents appears as an entry in the Job tree after you have added a Telephone Access panel.

- To configure residents, see section 8.

6 Configure a TX3-T10

This chapter explains

- Configure TX3-T10 Settings
- Configure Inputs
- Configure Outputs
- Configure Card Access Settings
- Configure Access Points
- Establish Correlations
- The Reception Button
- Configure Residents, Cards, and Access Levels
- Interlock mode

6.1 Configure TX3-T10 Settings

For information about the installation of the TX3-T10, refer to the manuals shipped with the system, which are also available on the Mircom website (**www.mircom.com**).

6.1.1 Add a TX3-T10 Panel

1. Click **Edit** > **Add Panel**.

   The Add Panel window appears.

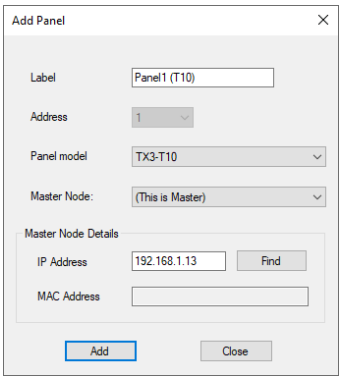


Figure 133. Add Panel

2. In the **Panel Model** menu, select **TX3-T10**.
3. Click **Add**.

6.1.2 Label a Panel

Labelling a panel lets you specify the panel name and establish its network address.

Label a panel

1. Select a panel. The Panel Configuration window appears.

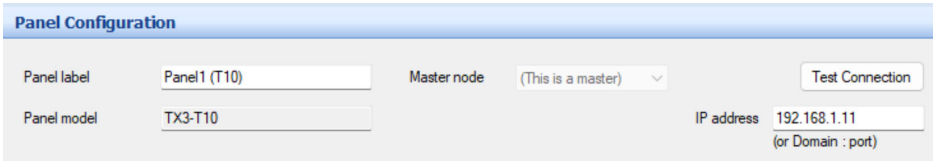


Figure 134. Panel Configuration

2. Provide information for the following:

   Panel label. Provide a name for the Panel.

   Panel model. The selected panel model. This field is read only.

6.1.3 Configure Calls

Configuring calls lets you specify the call duration, number of rings and call scheduling.

Configure calls

1. Click the **Calls** tab in the Panel Configuration window. The Calls window appears.

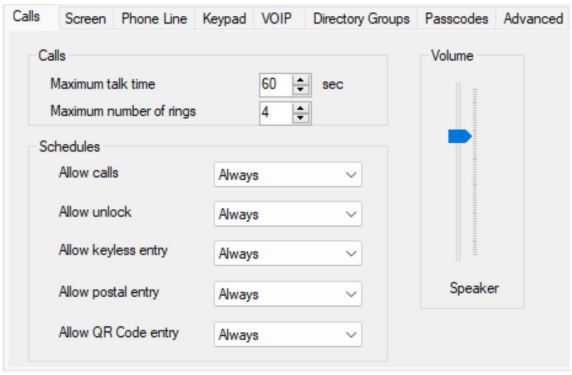


Figure 135. Panel Configuration - Calls

2. Provide information for each of the following:

   Maximum talk time. Specify the maximum time in seconds the visitor may communicate with the resident on a single call. After this time, the panel disconnects.

   Maximum number of rings. For NSL lines, specify the number of rings of each call before the panel reports no answer and hangs up. For ADC lines, this setting is not used and ring duration is determined by the maximum talk time.

   Allow calls. Use this menu to allow calls to the residents based on the selected schedule.

   Allow unlock. Use this menu to allow the resident to use their phone to unlock doors during a set schedule.

   Allow keyless entry. Use this menu to allow keyless entries during selected schedule.

   Allow postal entry. Use this menu to enable the postal lock during a set schedule.

Allow QR code entry. Use this menu to enable the QR code reader during a set schedule.

Volume. Specify the panel speaker call volume.

6.1.4 Configure Screen

Screen determines the appearance of the TX3-T10 screen.

Configure Screen

1. Click the **Screen** tab in the Panel Configuration window. The Screen window appears.

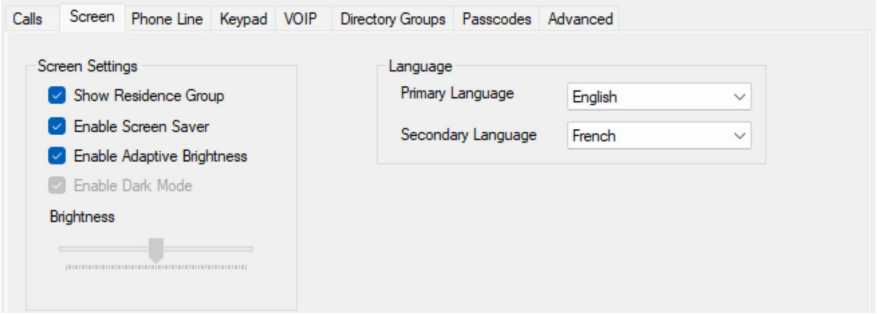


Figure 136. Panel Configuration - Messages

2. Provide information for each the following:

Show Residence Group. Show or hide directory groups (see section 6.1.8).

Enable Screen Saver. Turn the screensaver on or off.

Enable Adaptive Brightness. Turn this on to allow the TX3-T10 to automatically adjust the screen brightness and automatically switch between light and dark mode depending on the ambient light. Turn this off to prevent the TX3-T10 from automatically changing the brightness or lighting mode.

Enable Dark Mode. Enable or disable dark mode. When dark mode is disabled, the screen is white. This option is available only when **Enable Adaptive Brightness** is off.

Brightness. Move the slider to change the screen brightness. This option is available only when **Enable Adaptive Brightness** is off.

Primary and Secondary Language. These two languages appear as options on the TX3-T10 screen. The primary language is the language that the TX3-T10 uses by default. If the visitor selects the secondary language, the TX3-T10 switches to that language. The TX3-T10

switches back to the primary language after 55 seconds of inactivity. The Configurator includes three languages: English, French, and Spanish. However, only two languages can be enabled at the same time.

6.1.5 Configure Phone Line

The Phone Line window allows you to select the type of phone line the TX3-T10 panel will use.

Configure phone line

1. Select **Phone Line** from the Panel Configuration window. The Phone Line window appears.

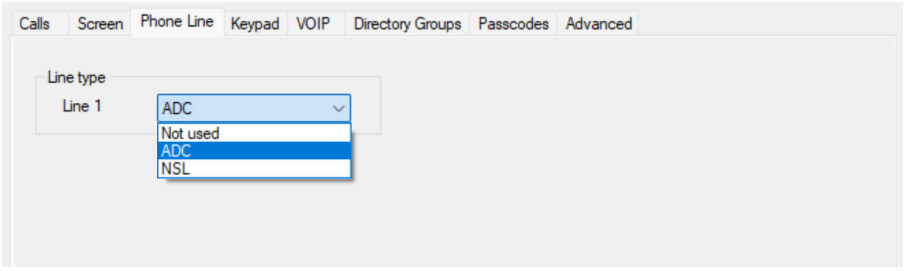


Figure 137. Panel Configuration - Phone Lines

2. If the panel is connected to **NSL**, select **NSL**. If the panel is connected to **ADC**, select **ADC**. If the panel is not connected to either **ADC** or **NSL**, select **Not used**.

6.1.6 Configure the Keypad

Configuring the keypad lets you set permissions for the resident for opening doors and using call waiting.

Configure the keypad

1. Click the **Keypad** tab in the Panel Configuration window.

   The Keypad window appears.

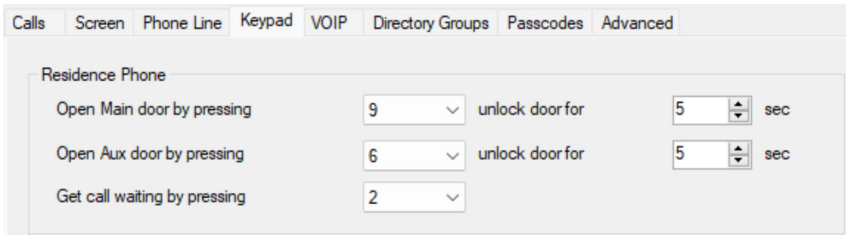


Figure 138. Panel Configuration - Keypad

2. Provide information for each the following:

Open Main door by pressing. Specifies which key on the resident's phone unlocks the main door.

Note: Do not select 4 (this is used to refuse entry or disconnect).

Do not use the same number for the main door, auxiliary door, and call waiting (call waiting works on NSL systems only).

Unlock door for. Specifies the time duration to unlock the main door.

Open Aux door by pressing. Specifies on Telephone Access Systems the key to press on the residence phone to unlock the auxiliary door.

Note: Do not select 4 (this is used to refuse entry or disconnect).

Do not use the same number for the main door, auxiliary door, and call waiting (call waiting works on NSL systems only).

Note: Do not select 1, 7, or * for **Open Main Door by Pressing** and **Open Aux Door by Pressing**.

Unlock door for. Specifies the time duration to unlock the auxiliary door.

Get call waiting by pressing. Specifies the key to press on the residence phone to connect to the lobby phone while on an outside call. Do not select 4. This is used to refuse entry or disconnect.

Note: **Get call waiting by pressing** works only on NSL systems.

6.1.7 Configure VOIP (SIP)

You can configure the TX3-T10 to make VOIP calls to residents using SIP (Session Initiation Protocol). SIP is a protocol for controlling phone or video messaging on an IP network. The TX3-T10 is a SIP client and can communicate with other SIP clients through a SIP server.

Configure VOIP

1. Click the **VOIP** tab in the Panel Configuration window.

The VOIP window appears.

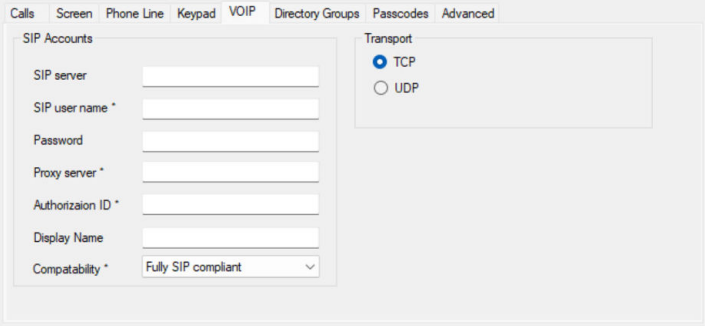


Figure 139. VOIP

SIP server. The URL of the SIP server.

SIP username. The SIP username of the TX3-T10.

Password. The SIP password for the TX3-T10.

Proxy server. The proxy server (also called outbound proxy) required by the SIP server. This is required by Mircom SIP Service. Other SIP services may not require it.

Authorization ID. The authorization ID (also called authorization username) for the TX3-T10. This is required by Mircom SIP Service. Other SIP services may not require it.

Display name. This name appears on the resident's SIP phone when the TX3-T10 calls the resident.

Compatibility. Usually, leave this option at the default (**Fully SIP compliant**).

Transport. Leave this option at the default (**TCP**).

6.1.8 Configure Directory Groups

You can put residents into groups, called resident groups or directory groups. This feature allows visitors to easily make a selection using the group buttons at the top of the TX3-T10 user interface. You can make up to seven groups.

1. Click the **Directory Groups** tab in the Panel Configuration window.

2. Click **Add** to add a group.

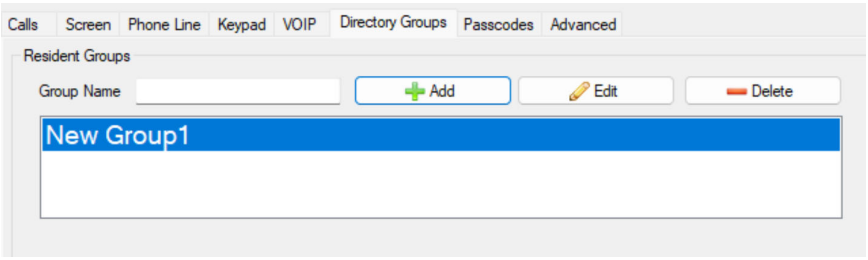


Figure 140. Directory Groups

Change the Group Name

1. Click on the group you want to rename.

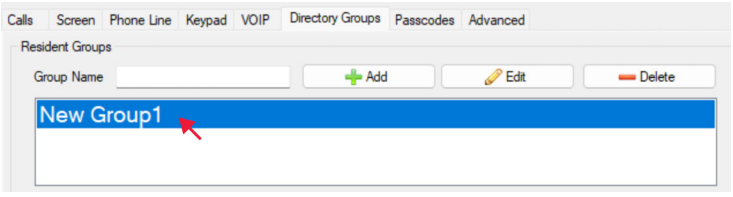


Figure 141. Select group

2. Click on the **Group Name** text field and type the new name.

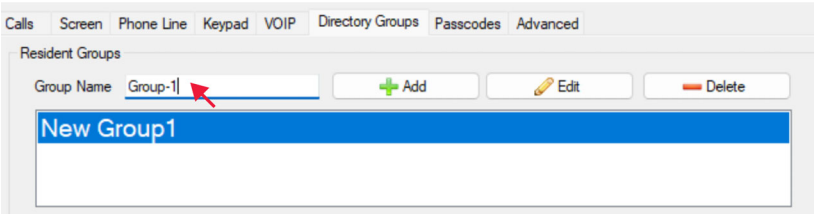


Figure 142. Rename group

3. Click on the group, then click on the on the text field to update the **Group Name**.

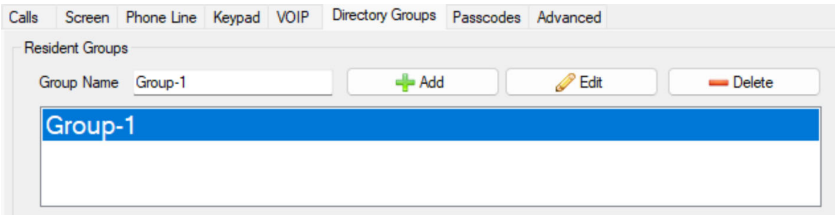


Figure 143. Group name changed

Edit a group

1. Click **Edit**.

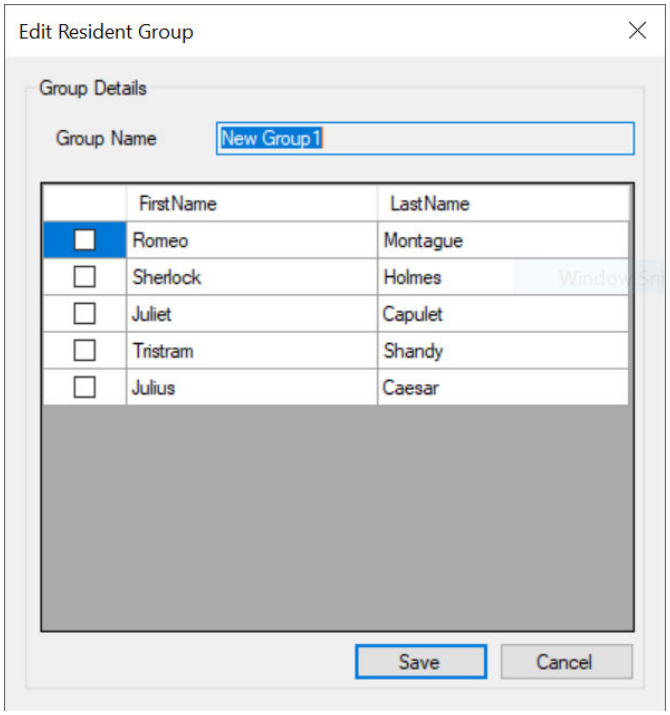


Figure 144. Edit Resident Group

2. Enter a group name.
3. Select the residents that you want to add to this group.
4. Click **Save**.

Delete a directory group

1. Click **Directory Groups** from the Panel Configuration window.
2. Select the group you want to delete, then click the **Delete** button.

6.1.9 Configure the Passcode

Passcodes let you define and set the code to permit panel access. There are three levels of access. All passcodes can be up to 10 digits long. They can be changed through the Configurator.

Configure the panel passcode

1. Select **Passcode** from the Panel Configuration window. The Passcode window appears.

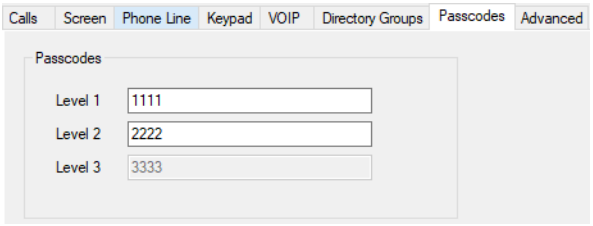


Figure 145. Panel Configuration - Passcodes

2. Provide a permission code for each the following:

   Level 1. *future use*.

   Level 2. Level 2 provides access to operations without configuration privileges.

   Level 3. Level 3 grants full panel access and cannot be changed here. It can be changed using the Monitoring provision (see section 12.1). The level 3 passcode is also the network passcode.

Note: At any time if you lose or forget the passcode, call Technical Support to receive a temporary passcode. This temporary passcode is only valid for the day it is issued.

6.1.10 Configure Advanced Functions

The advanced functions let you enable daylight savings time for the panel, specify the main door unlock schedule, disable the tamper alarm, enable the firewall, and enable the remote update feature.

Configure advanced functions

1. Click the **Advanced** tab in the Panel Configuration window. The Advanced window appears.

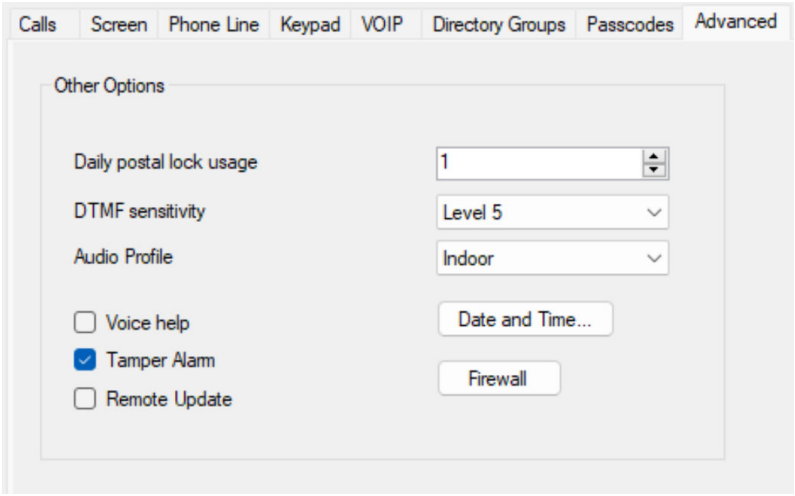


Figure 146. Panel Configuration - Advanced

2. Provide information for each the following:

Daily postal lock usage. Specifies the daily limit for postal access. The range is 1 to 254 and the default is 4. For unlimited usage set the value to 255.

DTMF sensitivity. Set the sensitivity to a level between 1 to 8. The default is 5. Lower sensitivity levels reduce interference from nearby cell phones.

Audio Profile. Specifies the type of audio quality settings the TX3-T10 will use.

- Indoor – Audio quality settings designed for TX3-T10 units installed indoors.
- Outdoor – Audio quality settings designed for TX3-T10 units installed outdoors.

Voice help. Specifies whether voice help messages and welcome message are enabled on the TX3-T10. If checked, the panel's voice help messages and welcome message will be turned on. The voice help messages are played whenever the TX3-T10 is activated after being idle.

Tamper Alarm. Enable or disable the tamper alarm.

Remote Update. When this option is enabled, the TX3-T10 automatically checks for software updates from Mircom's server on a regular basis.

Date and Time. See section 6.1.11.

Firewall. Click this button to enable the firewall. Enter up to three IP addresses that can access the TX3-T10 while the firewall is enabled.

Attention: When the firewall is enabled, the TX3 Configurator can still connect to the TX3-T10 from any computer. However, the software update via local web interface on the TX3-T10 will not work.

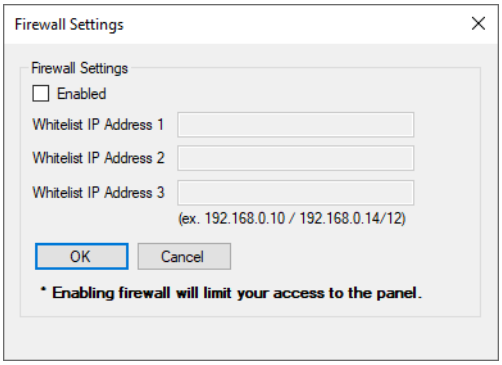


Figure 147. Firewall

6.1.11 Set the Date and Time

1. Click **Date and Time**. The Date and Time Options window appears.

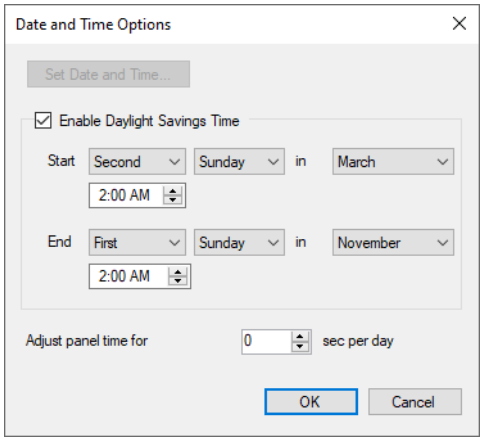


Figure 148. Date and Time Options

2. Provide information for the following parameters:

Enable Daylight Savings Time. Select this check box to enable daylight saving time. When enabled provide the daylight savings start and end time for the local area.

Adjust panel time for. Provide a value to compensate for the daily drift away from the true time.

3. Click **OK** to save the information and return to the configuration window, or click **Cancel** to exit without saving the changes.

6.2 Configure Inputs

Inputs 1 to 4 can be assigned the following functions:

Door sense for reader A (internal reader) or B (external reader). An input assigned this function senses if a door assigned to reader A lock or reader B lock is opened or closed.

Request to exit for reader A (internal reader) or B (external reader). An input assigned this function sends a signal to the controller that a request to exit has been made at a door assigned to reader A lock or reader B lock.

Postal lock input. Activation of this input unlocks the main door or main door & reader A lock and starts the main door timer. The door locks when the timer expires or when the door sense input is activated. Daily usage is limited according to a pre-defined amount. Any attempt to use the postal lock beyond this point causes a warning message to appear and the system to return to normal operation.

Fire panel override. This input connects to the fire alarm panel and receives fire notification. Activation of this input unlocks the main and auxiliary doors and reader A and B locks and their handicap locks. These outputs are active as long as the fire panel input is active. General purpose outputs are not affected by fire panel override.

General door sense. An input assigned this function monitors a door for open or closed status. This door appears in the Access Point Status (section 12.1.8).

General purpose. A general purpose input can activate a general purpose output to perform any required function.

Configure inputs

1. Expand the panel in the job tree, then select **Inputs/Outputs**. The Inputs/Outputs Configuration window appears.

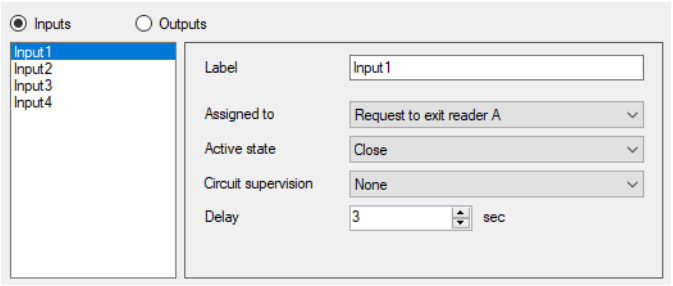


Figure 149. Input Configuration

2. Click **Inputs**. A list of the panel inputs appears.

3. Select an input and provide information for the following parameters:

Label. Use this text box to provide a label name for this panel input. This information is not stored in the panel and reverts to the state when a Job is retrieved from the panel.

Assigned to. Select an input from the menu. Select **General door sense** to make the input monitor a door for open or closed status. This door appears in the Access Point Status (section 12.1.8).

Active state. Active state specifies the state by which it is considered active. Two selections are presented. Select one of the following:

Open

Close

Circuit supervision. Circuit supervision specifies the circuit type and indicates whether the input is supervised. Select one of the following:

None

Open circuit

Short circuit

Open and short circuit

Delay. The Configurator shows the panel as being in an alarm state when the input becomes active. **Delay** specifies the amount of time to wait before raising the alarm condition.

6.3 Configure Outputs

Outputs are programmed for specific functionality, such as specific delay and on/off times.

Outputs 1 and 2 can be assigned the following functions.

Main door. This output is activated when access is granted through a PSTN call, SIP call, keyless code, or QR code. It is not activated by card access.

Reader A or B lock. This output is assigned to either reader A (the internal reader) or reader B (the optional external reader). When access is granted at the designated reader, this output is activated. This output is not activated by PSTN call, SIP call, keyless code, or QR code.

Main door & reader A lock. This output is activated when the resident grants access by PSTN call, SIP call, keyless code, or QR code OR when access is granted at reader A.

Aux door. This output is activated when access is granted through a PSTN call, SIP call, keyless code, or QR code. It is not activated by card access.

Aux door & reader B lock. This output is activated when the resident grants access by PSTN call, SIP call, or keyless code OR when access is granted at reader B.

Handicap lock for reader A or B. This output is assigned to either reader A (the internal reader) or reader B (the optional external reader). When access is granted at the designated reader, this output is activated. This output is not activated by PSTN call, SIP call, keyless code, or QR code. Access is granted to cards with designated handicap privileges.

General purpose. A general purpose output that performs any required function.

Configure outputs

1. Select **Inputs/Outputs**. The Inputs/Outputs Configuration window appears.

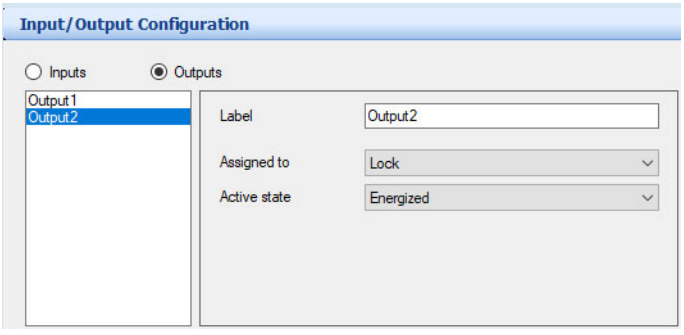


Figure 150. Output Configuration

2. Click **Outputs**. A list of the panel outputs appears.

3. Select an output and provide information for the following parameters:

   Label. Use this text box to provide a label name for this panel output. This information is not stored in the panel and reverts to the default state when a Job is retrieved from the panel.

   Assigned to. Assigned to indicates the function of the output.

   Active state. Active state specifies the state by which it is considered active. Two selections are presented. Select one of the following:

   Energized. When the device is energized it is considered to be active.

   De-energized. When the device is de-energized it is considered to be active.

6.4 Configure Card Access Settings

The application lets you set and define log reporting, facility code usage, and interlock access.

See section 1.1.3 for a list of card formats supported by the TX3-T10.

Interlock mode is typically used in a double door application to prevent unauthorized access. During this mode the user presents the card at both doors. The second door unlocks after presenting the card, if the first door is locked and closed.

Cards contain facility code and card number information. The TX3-T10 is configurable to grant access on the basis of one of the following:

- facility code only
- card number only
- facility code and card number

Configure the card access settings

1. Click **Access Points**. The Access Point Configuration window appears:

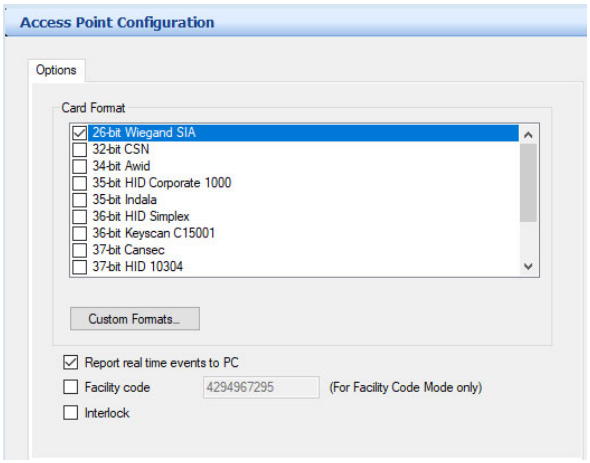


Figure 151. Panel Configuration - Card Reader

2. Provide information for each of the following:

   Card format. Select the card reader format for each access point. See section 1.1.3 for a list of card formats supported by the Card Access System. Select only the formats that are being used. In addition, do not select more than one format with the same bit length. For example, select either 36-bit HID Simplex or 36-bit Keyscan, but do not select both.

   Card discovery mode. Enable this option, then send the Job to the panel to put the panel into card discovery mode. While the panel is in card discovery mode and you present a card to the reader, the panel will display the card's raw data in the Online Events pane. To disable the feature, uncheck Card discovery mode, then send the job to the panel again.

   Custom Formats. See section 7.2.

   Report real time events to PC. Enable or disable real time event sending to the PC. If enabled, only the real time logs are sent to the PC.

   Facility code. Enter the building's facility code with a value from 0 to 4294967294. Enabling the facility code mode lets you grant access to cards based on facility code.

   Interlock. If enabled, door B cannot be unlocked until door A is locked and closed. Door A cannot be unlocked until door B is locked and closed.

6.5 Configure Access Points

You can apply schedules to access points, for example a period of time when the door is always unlocked. You must first create the schedule using the Schedule Configuration Window (see section 10).

The TX3-T10 has 2 access points.

- **Access Point 1** is the internal reader.
- **Access Point 2** is the optional external reader.

Configure access points

1. Expand the Access Point list and click an access point. The Access Point Configuration window appears.

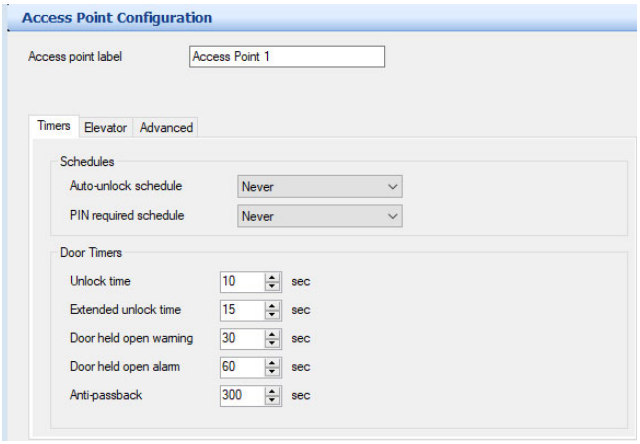


Figure 152. Access Point Configuration - Timers

2. In the **Access point label** provide a name for the access point.
3. Click the **Timers** tab and provide information for each the following:

   Auto-unlock schedule. The auto-unlock schedule lets you specify when the door will be unlocked. From the list select an auto-unlock schedule. This schedule allows free access without an access card.

   PIN required schedule. If a card is assigned a PIN, this schedule lets you specify when to grant access to a card with a PIN. From the list select the schedule.

   Unlock time. Specify the amount of time the door remains unlocked after granting access.

   Extended unlock time. Specify the amount of time the door remains unlocked for a card assigned with the extended unlock time privilege.

Door held open warning. Specify the amount of time for the door to stay open until a warning is issued.

Door held open alarm. Specify the amount of time for the door to stay open until an alarm is issued.

Anti-passback. Specify the time period in which the same card cannot be used twice at this reader.

4. Click the **Elevator** tab.

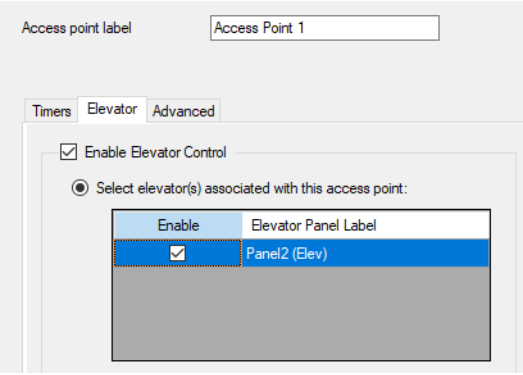


Figure 153. Access Point Configuration - Elevator Access

5. Select **Enable Elevator Control**, then select **Select elevator(s) associated with this access point**.

6. Select the Elevator Restriction Units that this access point controls. For more information see section 11.

7. Click the **Advanced** tab.

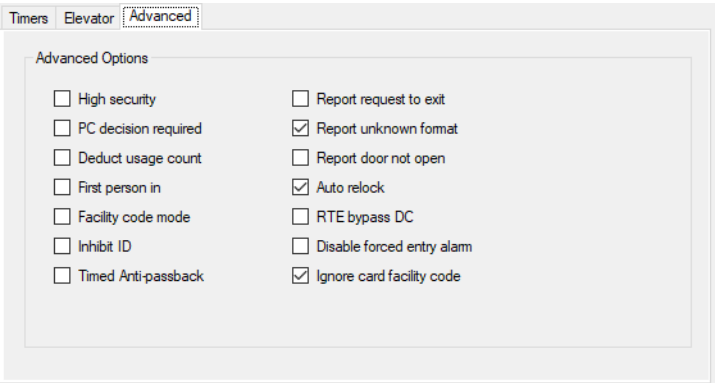


Figure 154. Access Point Configuration - Advanced

8. Provide information for each the following:

High security. Selecting **High security** grants access only to cards assigned with the high security privilege.

PC decision required. When enabled the PC decision to grant access is transferred from the controller to the PC with an attendant. For this option to work the PC needs to be on all the time. Use this option when the building has a security desk or a concierge.

Deduct usage count. Selecting this option enables a counter to deduct by one every time a card is used at this access point. When it reaches zero, the card is deactivated.

First person in. When enabled the door becomes unlocked by the first valid card presented during the unlock schedule, causing the door to remain unlocked for the duration of the unlock schedule. The 'First person in' option must also be set on the card (see section 9.1.2).

Facility code mode. Enabling the Facility code mode grants access to cards based on their facility code, in addition to all other registered cards. Card holders with the same facility code are granted access, regardless of their card numbers.

Note: If you are enabling the facility code mode ensure that the facility code is set on the panel (see section 6.5).

Inhibit ID. When enabled the card code is not sent to the PC. This feature prevents the logging and reporting of cards at this access point.

Timed anti-passback. Selecting this option enables the anti-passback feature in which the same card cannot be used twice at the same reader until the anti-pass back time period expires.

Report request to exit. Selecting this option enables the panel to report ‘request to exit events’ to the PC.

Report unknown format. Selecting this option enables the panel to report ‘unknown card format’ events to the PC.

Report door not open. Selecting this option enables the panel to log and report ‘door not open’ events to the PC when access is granted but the door remains closed.

Auto relock. Selecting this option locks the door as soon as the door closes before the door open timer or extended door timer expire. Disabling this option locks the door, but only after the expiration of door open timer or extended door open timer.

RTE bypass DC. Enable this option if there is a mechanical egress device installed on the door. In this situation, the door is unlocked manually, and the TX3 system does not unlock the door. If the door is opened, the system updates the door status and the LED on the reader turns green. The door contact is bypassed and so there is no forced entry alarm.

Disable forced entry alarm. Selecting this option disables the forced entry alarm.

Ignore card facility code. Selecting this option grants access to card holders on the basis of their card numbers and not the card facility code.

6.6 Establish Correlations

Correlations let you establish specific relationships between panel inputs (events) and outputs (actions). Use Correlations to specify the relationships between events, actions and schedules.

Note: All inputs, outputs and schedules must be defined before applying correlations.

The application shows a particular Job with a list of correlations currently configured to a panel. A check box appears besides each correlation. When unchecked, the correlation is inactive.

Create a correlation

1. Select **Network > Panel > Correlations**. The Correlations Configuration window appears in the Right Pane.

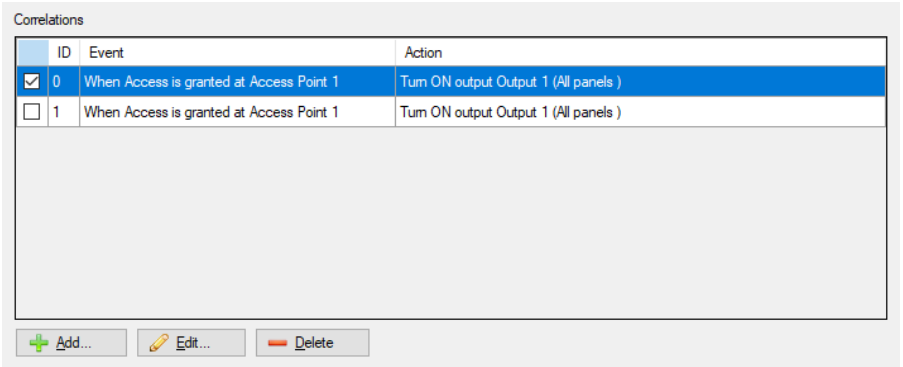


Figure 155. Correlation Configuration

2. Click **Add**. The Add Correlation window appears.

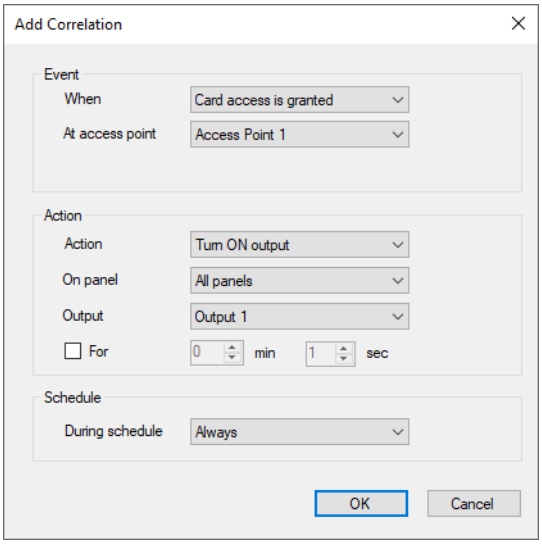


Figure 156. Add Correlation

3. Enter the following parameters:

When. This parameter defines the input event. Select one of the following:

Card access is denied. Access by card is denied.

Telephone or QR access denied. Access by telephone or QR code reader is denied.

Card access is granted. Access by card is granted.

Telephone or QR access granted. Access by telephone or QR code reader is granted.

Door not open. Access is granted but the door remains closed.

Forced entry. A door is forced open.

Request to exit. A request to exit has been made.

Door held open alarm. A door did not close and the door held open alarm was issued.

Door held open warning. A door did not close and the door held open warning was issued.

Unlock mode on. When in unlock mode the door is unlocked.

Unlock mode off. When in lock mode the door is locked.

HiSec mode on. When enabled only access cards with the high security privilege can open the door.

HiSec mode off. When disabled all access cards can open the door.

Forced entry restored. The forced entry alarm is restored.

Door held open warning restored. The door held open warning was restored.

Door held open alarm restored. The door held open alarm is restored.

Input activated. Select a panel input.

Input normal. The general purpose input becomes inactive.

Call started. A call to a resident is placed from the lobby.

Call finished. A call to a resident ends.

Call is connected. A call is established.

At access point. This parameter defines the access point if relevant.

Action. Action specifies the type of action to occur for a specific input. Select one of the following:

Turn ON output. When enabled the output assigned a specific function performs the required action.

Turn OFF output. When disabled the output assigned this specific function does not perform the designated action.

Turn ON high security. When enabled only access cards with this privilege are able to open the door.

Turn OFF high security. When disabled all access cards are able to open the door.

On panel. On panel applies the action either to one of the panels on your system or to a group of panels on your system. If, for example, you have two panels (Panel1 and Panel2) in your TX3 system, you could select from the following options:

Panel1 - Apply the correlation to Panel1 only.

Panel2 - Apply the correlation to Panel2 only.

All panels - Apply the correlation to all Telephone Access, Card Access, and Touch Screen panels on the network.

Custom - Apply the correlation to a custom target. When you select this option, you can click on the **Custom** button to select from the following custom targets:

- **All panels on the RS485 network of the Master Node** (select a Main Node from the list)
- **All Master Nodes only**
- **All panels with RS485 address** (select the address from the list)

Output. This parameter applies the action to a specific output or access point on the panel. For an output to appear on this list it must be designated as a general purpose output. For a reader to appear on this list the output must be assigned to a reader. For a Job that uses two outputs and two readers on a Two Door Controller, select one of the following:

Output 3

Output 4

Reader A

Reader B

For. For represents the duration of the action in minutes and seconds up to a maximum of 600 minutes. Uncheck the box if you want the action to continue indefinitely.

During schedule. This parameter lets you apply this correlation to a pre-defined schedule. For a schedule to appear on this list it must be created (see section 10).

Edit a correlation

1. Select a correlation and click **Edit**. The Edit Correlation window appears.
2. Provide the information as you would when creating a correlation.
3. Click **OK** to save your edits.
4. Connect to your panel, and then send the job to the panel.

Delete a correlation

1. Select a correlation and click **Delete**.
2. Connect to your panel, and then send the job to the panel.

Activate a correlation

1. Click on the check box beside the correlation as shown in Figure 157.

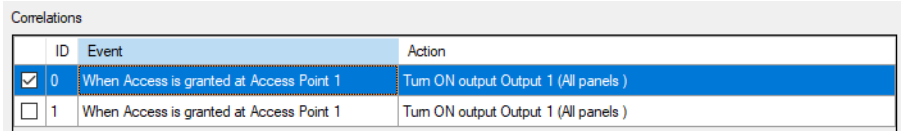


Figure 157. Correlation activation

2. Connect to your panel, and then send the job to the panel.

6.7 The Reception Button

The TX3-T10 has a dial code reserved for reception: **9995**. Tapping the **Reception** button on the TX3-T10 screen calls the resident that has the dial code 9995. See section 8 for details on adding residents.

6.8 Configure Residents, Cards, and Access Levels

Residents, **Cards**, and **Access Levels** appear as entries in the Job tree after you have added a TX3-T10 panel. Cards must be added to the job and given the appropriate access level in order for access to be granted at an access point.

- To configure residents, see section 8.
- To configure cards, see section 9.

6.9 Interlock mode

This mode is typically used in a double door application to prevent unauthorized access. During this mode the user presents the card at both doors. The second door unlocks after presenting the card, if the first door is locked and closed. If enabled door B cannot be unlocked until door A is locked and closed. Door A cannot be unlocked until door B is locked and closed.

To enable Interlock mode in the TX3-T10 panel, do the following:

1. In the Job Tree, expand the TX3-T10 panel and select **Access Points**.

2. In the **Access Point Configuration** window, check the box beside **Interlock** under Options.

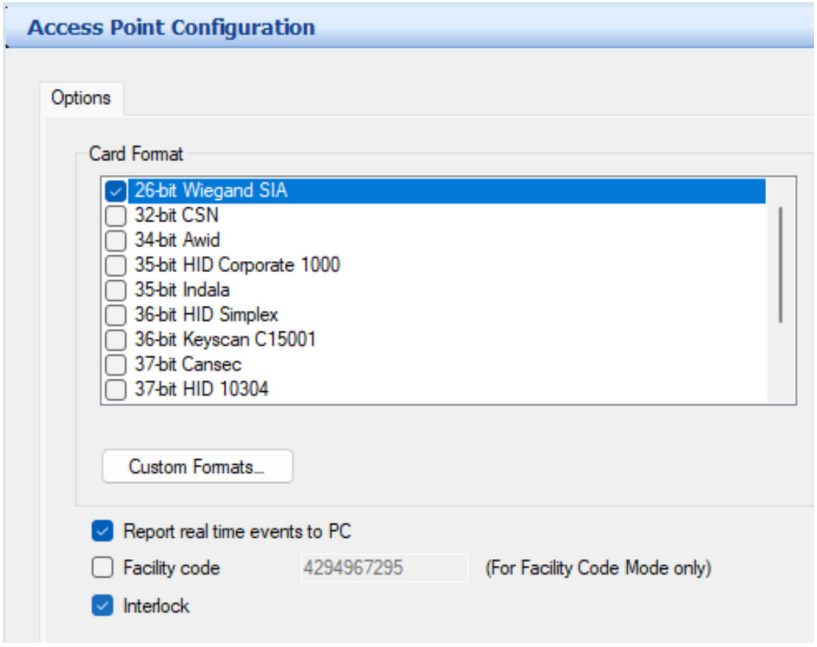


Figure 158. Access Point Configuration

3. Return to the Job Tree and select **Inputs/Outputs** under the same panel.

4. In the Outputs tab, assign Output 1 as **Main door & reader A lock**.

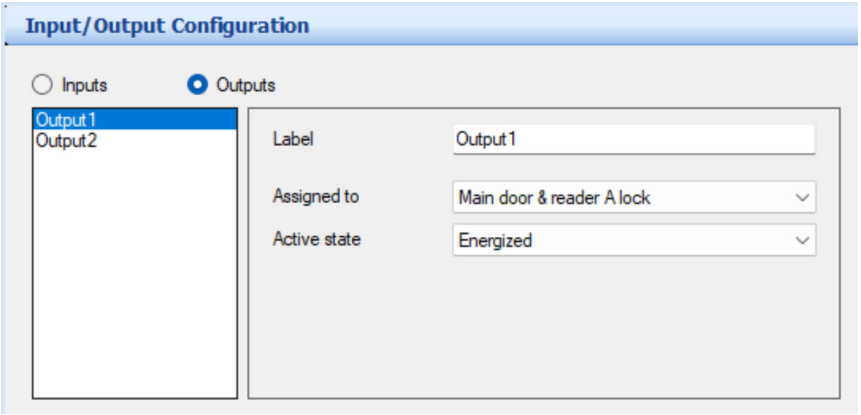


Figure 159. Output 1

5. Assign Output 2 as **Reader B lock.**

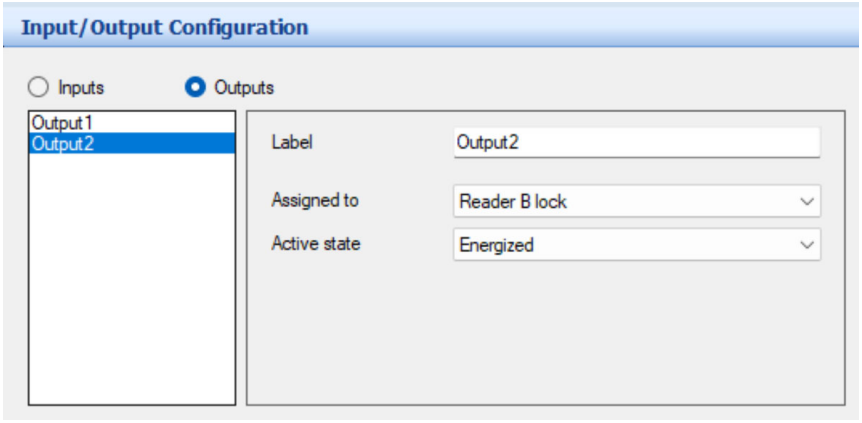


Figure 160. Output 2

6. Create a correlation that unlocks Door B when access is granted at the Main door.

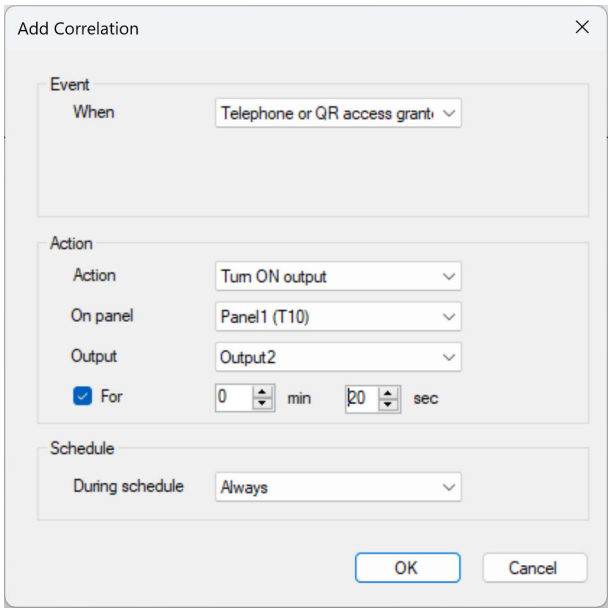


Figure 161. Add correlation

7 Configure a Card Access System Panel

The TX3 Configurator lets you access, add and modify Two Door Controller and Single Door Controller Card Access System panels. Once you connect to a building panel, you can begin configuration.

This chapter explains

- Configure a Card Access System Panel
- Custom Card Formats
- Configure Access Points
- Configure Inputs
- Configure Outputs
- Establish Correlations
- Configure Cards and Access Levels

7.1 Configure a Card Access System Panel

Configuring a Card Access System panel sets the panel system parameters and establishes how inputs are labelled, assigned, defined and correlated with outputs.

Note: When adding additional panels ensure the selected panel matches the panel you wish to connect to.

Card Access System panel configuration lets you:

- label a panel
- set panel options
- define and assign inputs and outputs
- correlate events with actions
- create hold open timers
- set elevator usage if elevator controls are used

For information about the installation of the Card Access Systems, refer to the manuals shipped with the system and on the Mircom website (www.mircom.com).

7.1.1 Label a Panel

Labelling a panel lets you specify the panel name and establish its network address.

Label a panel

1. Select a panel. The Panel Configuration window appears.

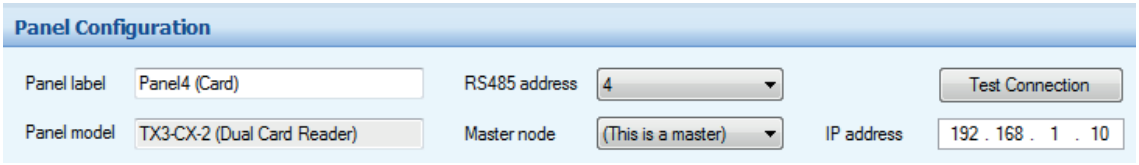


Figure 162. Panel Configuration

2. Provide information for the following:

   Panel label. Provide a name for the Panel.

   Panel model. The application automatically retrieves the selected panel model information. This field is read only.

Address. The drop down list displays the remaining available panel addresses. From this list select the panel address. This field is disabled if a connection is active. Ensure that this address matches the panel address.

Master Node. If you are connected to your TX3 system through TCP/IP, this option lets you to either configure the panel as a Main Node (select **This is a master** from the list) or to specify the Main Node for your panel (select the Main Node from the list).

Note: In the Configurator, the terms **Master** and **Main** are equivalent.

Test Connection. If you are connected to your TX3 system through TCP/IP, this option test the connection between your computer and a Main Node. You can only test a connection to a Main Node panel. You must be connected to the TX3 system in order to use **Test Connection**.

IP address. The IP address of your panel if it is a Main Node on a TCP/IP network. This field only appears if you are connected to your TX3 system through TCP/IP.

Note: You cannot change a Main Node's IP address by editing the **IP address** field. To change a Main Node's IP address, use the IP Change Tool. See section 3.2 for more information.

3. Proceed with the rest of the configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

7.1.2 Set the Card Access Panel

The application lets you set and define log reporting, facility code usage, interlock access and daylight savings time.

See section 1.1.3 for a list of card formats supported by the Card Access System.

Interlock mode is typically used in a double door application to prevent unauthorized access. During this mode the user presents the card at both doors. The second door unlocks after presenting the card, if the first door is locked and closed.

Cards contain facility code and card number information. The Card Access System is configurable to grant access on the basis of one of the following:

- facility code only
- card number only
- facility code and card number

Set the card access panel

1. Click Panel. The Panel Configuration window appears:

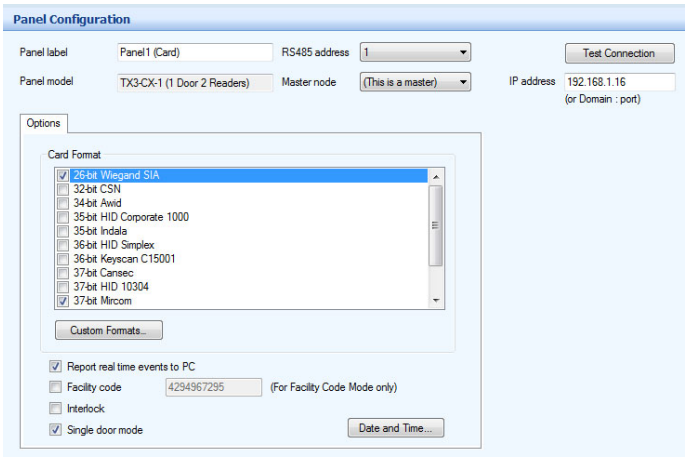


Figure 163. Panel Configuration - Card Reader

2. Provide information for each of the following:

Card format. Select the card reader format for each access point. See section 1.1.3 for a list of card formats supported by the Card Access System. Select only the formats that are being used. In addition, do not select more than one format with the same bit length. For example, select either 36-bit HID Simplex or 36-bit Keyscan, but do not select both.

Card discovery mode. Enable this option, then send the Job to the panel to put the panel into card discovery mode. While the panel is in card discovery mode and you present a card to the reader, the panel will display the card's raw data in the Online Events pane. To disable the feature, uncheck Card discovery mode, then send the job to the panel again.

Custom Formats. See section 7.2.

Report real time events to PC. Enable or disable real time event sending to the PC. If enabled, only the real time logs are sent to the PC.

Facility code. Enter the building's facility code with a value from 0 to 4294967294. Enabling the facility code mode lets you grant access to cards based on facility code.

Interlock. If enabled door B cannot be unlocked until door A is locked and closed. Door A cannot be unlocked until door B is locked and closed.

Single door mode. (TX3-CX-1 and TX3-CX-1NP only) If this option is selected, then the panel controls only one door and both access points represent the same door.

If this option is unselected, then the panel operates as a Two Door Controller and each access point is a separate door.

Date and Time. Select this option to set the date and time of the panel, set daylight savings time, and to set the panel adjustment time.

3. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Set the daylight saving time

1. Click **Date and Time**. The Date and Time Options window appears.

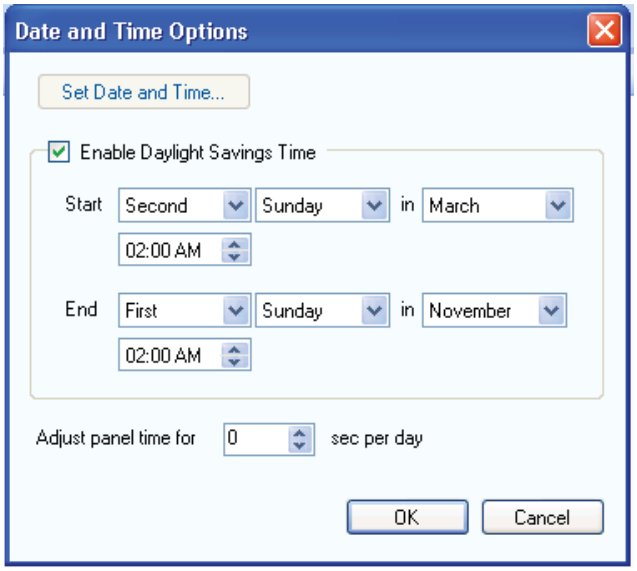


Figure 164. Date and Time Options

2. Provide information for the following parameters:

Set Date and Time. Selecting this option lets you set the panel clock to a time other than the PC clock. Every time you access the Set Date and Time window the current PC time is shown.

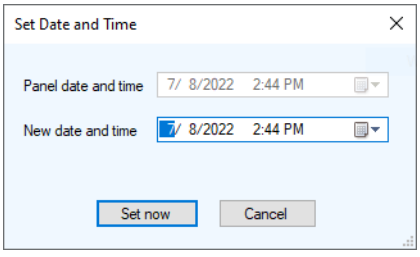


Figure 165. Set Date and Time

Enable Daylight Savings Time. Select this check box to enable daylight saving time. When enabled provide the daylight savings start and end time for the local area.

Adjust panel time for. Provide a value to compensate for the daily drift away from the true time.

3. Click **OK** to save the information and return to the configuration window, or click **Cancel** to exit without saving the changes.

4. Click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

7.2 Custom Card Formats

The **Custom Formats** feature lets you create custom card formats.

Create a custom card format

1. Click **Custom Formats**.

   The **Custom Card Detail** window appears.

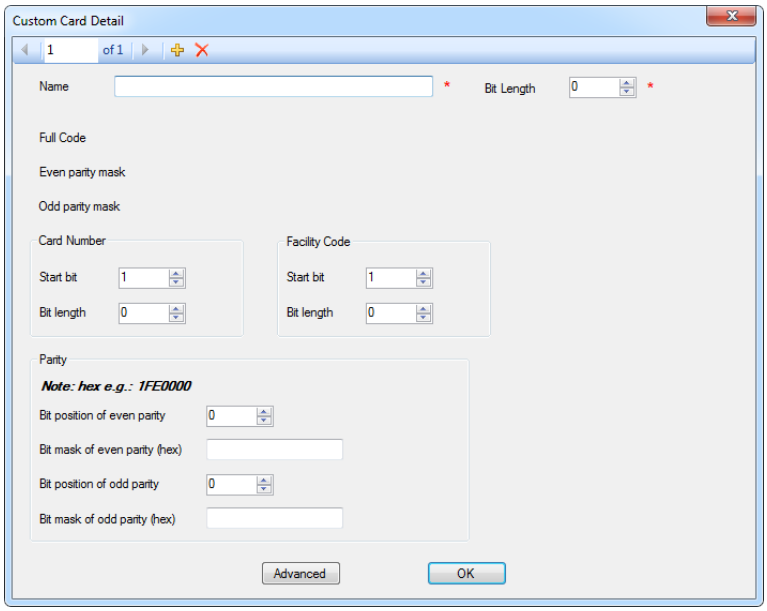


Figure 166. Custom Card Detail

2. Provide information for each of the following:

   Name. Enter a name for the new format.

   Bit Length. Specify the number of bits in the format.

Card Number. Specify the start bit and the bit length for the card number. This must not overlap the facility code.

Facility Code. Specify the start bit and the bit length for the facility code. This must not overlap the card number.

The Custom Card Detail window shows a visual representation of the card code and facility code bits. Figure 167 shows a card format with a bit length of 20, where the card number is defined by bits 2 to 7, and the facility code is defined by bits 8 to 13.

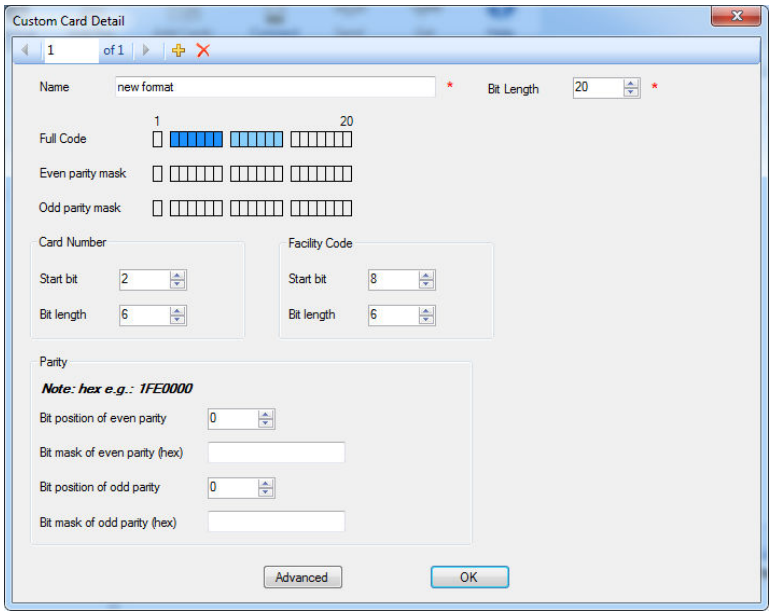


Figure 167. Custom card format with a bit length of 20

3. Click **OK**.

   The new custom card format appears at the bottom of the list of formats.

Create a second custom card format

1. Click the **Add New** button.

Delete a custom card format

1. Click the **Delete** button.

7.2.1 Parity

Parity is a form of error detection in data transmission. If the card format uses parity, then you can specify even parity, odd parity, even parity 1, and odd parity 1 if necessary.

Specify even parity

1. In the **Parity** section, specify the position of the even parity bit. This must not overlap the card number, facility code, or the odd parity bit.

2. Enter the bit mask of the even parity in hexadecimal notation.

   For example, in the custom card format shown in Figure 168, the even parity bit is 1, and the even parity bit mask is bits 2 to 7. The bit mask is expressed as 1111110, which is read from right to left. The rightmost bit represents bit 1, which is not part of the mask, so it is 0. The next 6 bits are part of the mask, so they are 1. The binary number 1111110 is expressed as 7E in hexadecimal notation.

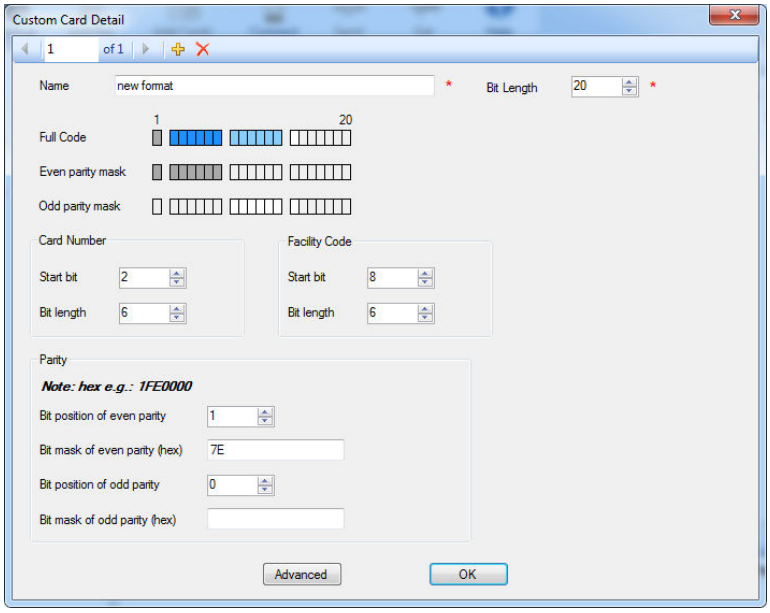


Figure 168. Custom card format with an even parity mask

Specify odd parity

1. Specify the position of the odd parity bit. This must not overlap the card number, facility code, or the even parity bit.

2. Enter the bit mask of the odd parity in hexadecimal notation.

In the same example, the odd parity bit is 14, and the odd parity bit mask is bits 8 to 13. The bit mask is expressed as 1111110000000, which is read from right to left. The rightmost 7 bits are not part of the mask, so they are 0. The next 6 bits are part of the mask, so they are 1. The binary number 1111110000000 is represented as 1F80 in hexadecimal notation. Figure 169 shows the same card format with this odd parity mask.

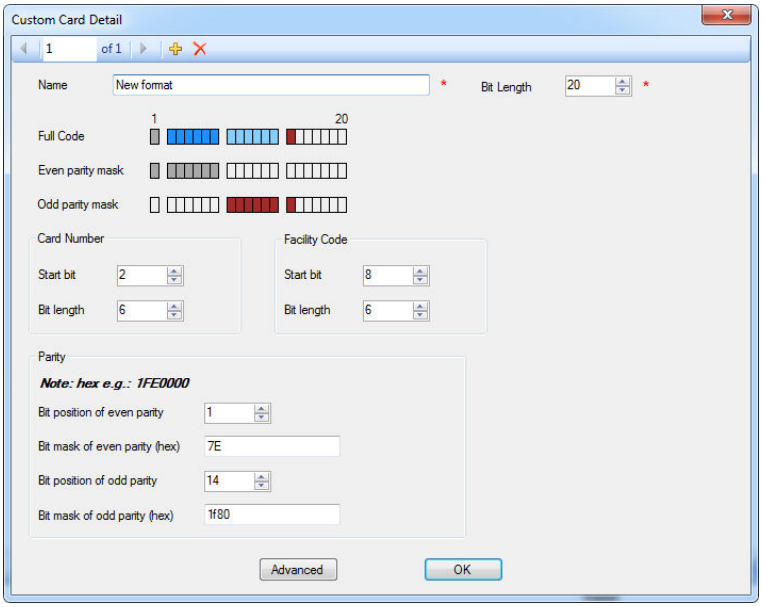


Figure 169. Custom card format with an odd parity mask

Specify even parity 1 and odd parity 1

1. Click the **Advanced** button.

The Custom Card Detail window shows the even parity 1 and odd parity 1.

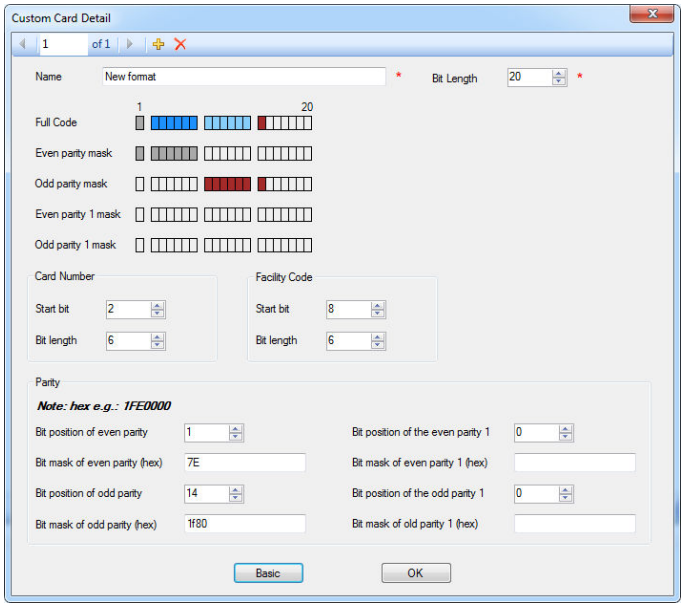


Figure 170. Custom Card Detail - Advanced

2. Repeat the steps under **Specify even parity** on page 192 and **Specify odd parity** on page 192 for even parity 1 and odd parity 1.

7.3 Configure Access Points

Card readers at access points require additional configuration to specify how certain access requirements run on a scheduled basis. Access privileges may have dependencies and consequently may be more suitable to run as a scheduled task.

To apply schedules, they must be first created using the Schedule Configuration Window (see section 10).

The auto lock/unlock scheduling for door operation allows free access without an access card, during specified times and areas.

7.3.1 Access Points on the Two Door Controller

The panel has 2 access points by default.

- **Reader A** is the reader connected to the Wiegand #1 terminal.
- **Reader B** is the reader connected to the Wiegand #2 terminal.

7.3.2 Access Points on the Single Door Controller

When you add a Single Door Controller in the Configurator, it has 2 access points by default.

- **Reader A** is the built-in reader (TX3-CX-1 only).
- **Reader B** is the external reader. If you do not have an external card reader, the system does not use Reader B.

Configure access points on all card access controllers

1. Expand the Access Point list and click on an access point. The Access Point Configuration window appears.

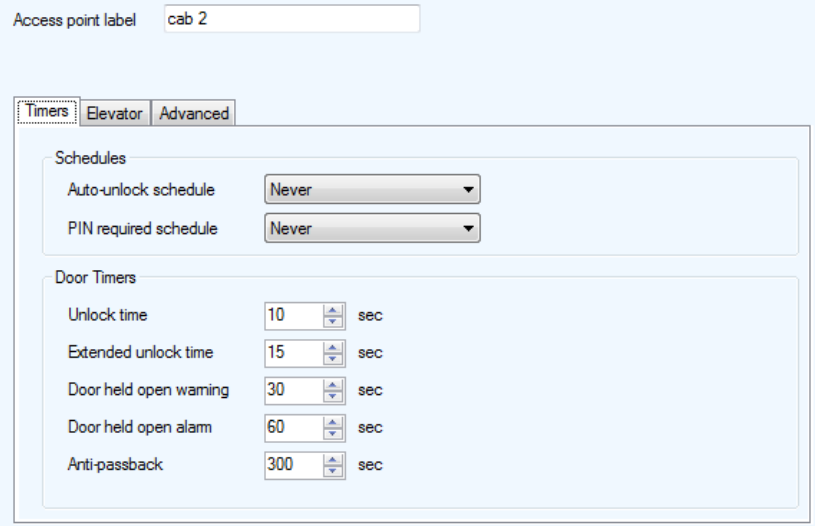


Figure 171. Access Point Configuration - Timers

2. In the **Access point label** provide a name for the access point.
3. From the tab select **Timers** and provide information for each the following:

   Auto-unlock schedule. The auto-unlock schedule lets you specify when the door will be unlocked. From the list select an auto-unlock schedule.

   PIN required schedule. If a card is assigned a PIN, this schedule lets you specify when to grant access to a card with a PIN. From the list select the schedule.

   Unlock time. Specify the amount of time the door remains unlocked after granting access.

   Extended unlock time. Specify the amount of time the door remains unlocked for a card assigned with the extended unlock time privilege.

Door held open warning. Specify the amount of time for the door to stay open until a warning is issued.

Door held open alarm. Specify the amount of time for the door to stay open until an alarm is issued.

Anti-passback. Specify the time period in which the same card cannot be used twice at this reader.

4. From the tab select **Advanced**. The Advanced Configuration Window appears:

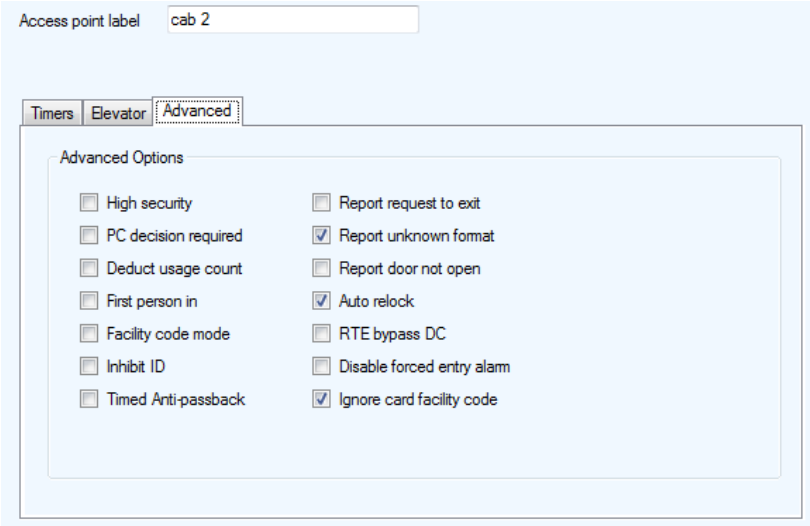


Figure 172. Access Point Configuration - Advanced

5. Provide information for each the following:

High security. Selecting **High security** grants access only to cards assigned with the high security privilege.

PC decision required. When enabled the PC decision to grant access is transferred from the controller to the PC with an attendant. For this option to work the PC needs to be on all the time. Use this option when the building has a security desk or a concierge.

Deduct usage count. Selecting this option enables a counter to deduct by one every time a card is used at this access point. When it reaches zero, the card is deactivated.

First person in. When enabled the door becomes unlocked by the first valid card presented during the unlock schedule, causing the door to remain unlocked for the duration of the unlock schedule. The 'First person in' option must also be set on the card (see section 9.1.2).

Facility code mode. Enabling the Facility code mode grants access to cards based on only their facility code. Card holders with the same facility code are granted access, regardless of their card numbers.

Note: If you are enabling the facility code mode ensure that the facility code is set on the panel (see section 7.1.2).

Inhibit ID. When enabled the card code is not sent to the PC. This feature prevents the logging and reporting of cards at this access point.

Timed anti-passback. Selecting this option enables the anti-passback feature in which the same card cannot be used twice at the same reader until the anti-pass back time period expires.

Report request to exit. Selecting this option enables the panel to report 'request to exit events' to the PC.

Report unknown format. Selecting this option enables the panel to report 'unknown card format' events to the PC.

Report door not open. Selecting this option enables the panel to log and report 'door not open' events to the PC when access is granted but the door remains closed.

Auto relock. Selecting this option locks the door as soon as the door closes before the door open timer or extended door timer expire. Disabling this option locks the door, but only after the expiration of door open timer or extended door open timer.

RTE bypass DC. Enable this option if there is a mechanical egress device installed on the door. In this situation, the door is unlocked manually, and the TX3 system does not unlock the door. If the door is opened, the system updates the door status and the LED on the reader turns green. The door contact is bypassed and so there is no forced entry alarm.

Disable forced entry alarm. Selecting this option disables the forced entry alarm.

Ignore card facility code. Selecting this option grants access to card holders on the basis of their card numbers and not the card facility code.

6. Proceed with another configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

7.4 Configure Inputs

In order to accurately monitor the functional state of the panel inputs, you must first define the electrical circuit characteristics of the input (active state and circuit supervision). For a detailed description of the circuit characteristics see LT-980 TX3-CX Card Access System Installation and Operation Manual.

7.4.1 Two Door Controller

Each Two Door Controller has eight inputs that can be configured to accommodate specific events for the following controller functions:

Door contact for reader A or B. An input assigned this function senses if a door is opened or closed.

Request to exit for reader A or B. An input assigned this function sends a signal to the controller that a request to exit has been made.

General purpose function. An input assigned this function can activate a general purpose output to perform any required function or turn on or off the high security mode.

General door status. An input assigned this function monitors a door for open or closed status. This door appears in the Access Point Status (section 12.1.8).

7.4.2 Single Door Controller

Each Single Door Controller has 4 programmable inputs that can be configured to accommodate specific events for the following controller functions:

Door contact. An input assigned this function senses if a door is opened or closed.

Request to exit. An input assigned this function sends a signal to the controller that a request to exit has been made.

General purpose. An input assigned this function activates a general purpose output to perform any required function or turn on or off the high security mode.

General door status. An input assigned this function monitors a door for open or closed status. This door appears in the Access Point Status (section 12.1.8).

Configure inputs on all card access controllers

1. Select **Inputs/Outputs**. The Input/Output Configuration window appears.

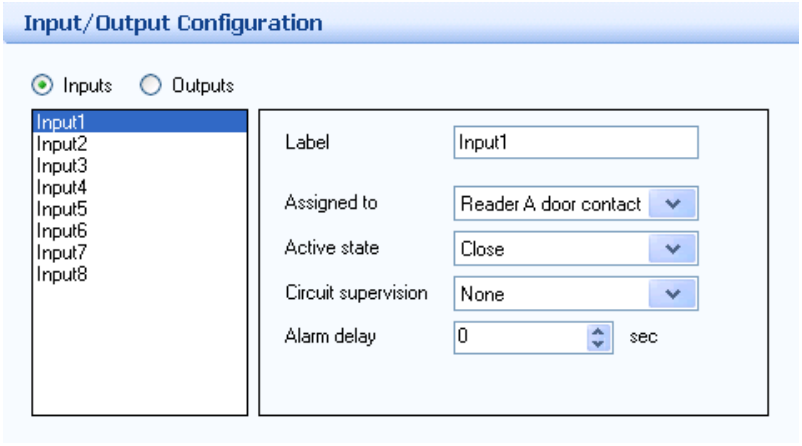


Figure 173. Input Configuration

2. Click **Inputs**. A list of the panel inputs appears.

3. Select an input and provide information for the following parameters:

   Label. Use this text box to provide a name for the input.

   Assigned to. Select an input from the menu (for example, **Door contact** or **Request to exit**). Select **General door status** to make the input monitor a door for open or closed status. This door appears in the Access Point Status (section 12.1.8).

   Active state. Active state specifies the state by which it is considered active. Two selections are presented. Select one of the following:

   Open

   Close

   Circuit supervision. Circuit supervision specifies the circuit type and indicates whether the input is supervised. Select one of the following:

   None

   Open circuit

   Short circuit

   Open and short circuit

Delay. The Configurator shows the panel as being in an alarm state when the input becomes active. **Delay** specifies the amount of time to wait before raising the alarm condition. This option is only available to card access panels.

4. When you have finished making all of the configuration changes for your panel, connect to your panel, and then send the job to the panel.

7.5 Configure Outputs

For a detailed description of the circuit characteristics see LT-980 TX3-CX Card Access System Installation and Operation Manual.

7.5.1 Configure Outputs on a Two Door Controller

By default output 1 is assigned to Reader A lock with an energized active state. When access is granted this output unlocks the main door.

Whenever you configure an output, the active state of the output must be defined as a function of the device it attaches. When the device is energized it is considered to be active. When the device is de-energized it is considered to be inactive.

Each card access controller has eight outputs that can be configured to accommodate specific actions for the following controller functions:

Lock for reader A or B. This output is assigned to either reader A or B to unlock the main door. When access is granted at the designated reader, this output unlocks the door.

Handicap lock for reader A or B. This output is assigned to either reader A or B to unlock the accessible door. When access is granted at the designated reader, this output unlocks the door. Access is granted to cards with designated handicap privileges.

General purpose output. An output assigned this function can perform any required function, such as turning on a light.

Outputs 1 to 8 have the following default settings:

Output 1. Lock for reader A

Output 2. Reader A handicap

Output 3. General Purpose

Output 4. General Purpose

Output 5. Lock for reader B

Output 6. Reader B handicap

Output 7. General Purpose

Output 8. General Purpose

Configure outputs on a Two Door Controller

1. Select **Inputs/Outputs**. The Inputs/Outputs Configuration window appears.

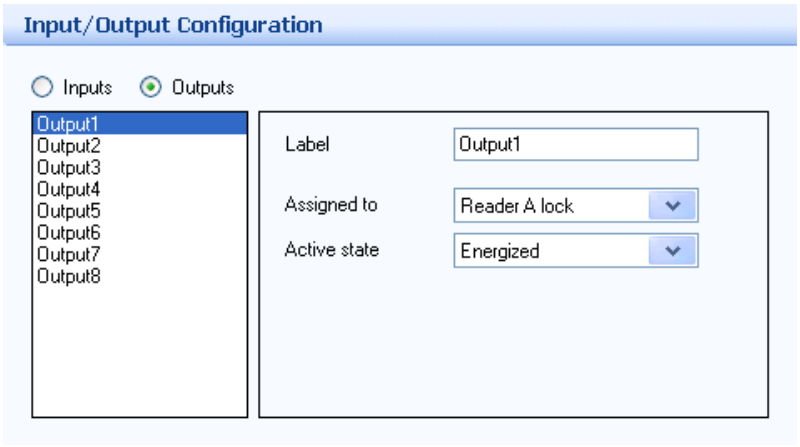


Figure 174. Output Configuration

2. Click **Outputs**. A list of the panel outputs appears.
3. Select an output and provide information for the following parameters:

   Label. Use this text box to provide a label name for this panel input.

   Assigned to. Assigned to designates the output to a specific controller function. From the list select one of the following controller functions.

   Reader A lock.

   Reader B lock

   Reader A handicap

   Reader B handicap

   General Purpose

   Active state. Active state specifies the state by which it is considered active. Two selections are presented. Select one of the following:

   Energized. When the device is energized it is considered to be active.

   De-energized. When the device is de-energized it is considered to be active.

When you have finished making all of the configuration changes for your panel, connect to your panel, and then send the job to the panel.

7.5.2 Configure Outputs on a Single Door Controller

If single door mode is enabled, outputs 1, 2 and 3 are configured as follows:

Output 1: Lock. Connect this output to a door strike. By default output 1 has an energized active state. When access is granted, this output unlocks the door.

Output 2: General purpose. An output assigned this function can perform any required function, such as turning on a light.

Output 3: General purpose. This output can power a door strike or a maglock.

Configure outputs on a Single Door Controller

1. Select **Inputs/Outputs**. The Inputs/Outputs Configuration window appears.

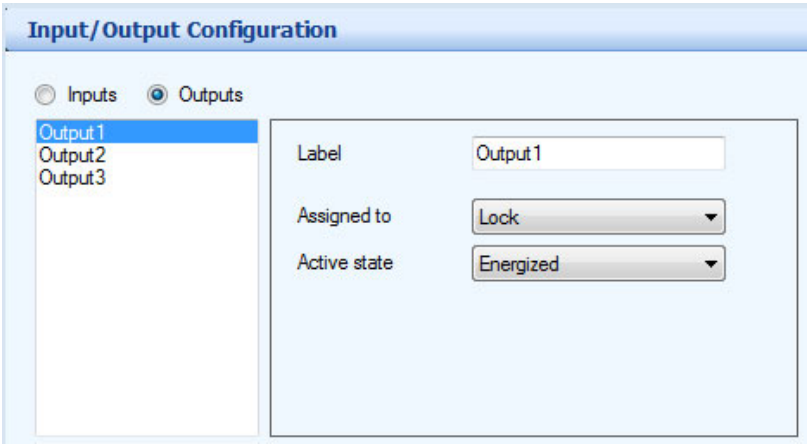


Figure 175. Output Configuration

2. Click **Outputs**. A list of the panel outputs appears.
3. Select an output and provide information for the following parameters:

   Label. Use this text box to provide a label name for this panel input.

Assigned to. Select a function from the menu (for example, **Lock** or **Handicap**).

Note: For output 3, select **Lock** if you want output 3 to power a door strike or a maglock.

Active state. Active state specifies the state by which it is considered active. Two selections are presented. Select one of the following:

Energized. When the device is energized it is considered to be active.

De-energized. When the device is de-energized it is considered to be active.

Note: For output 3, select **Energized** for a door strike or **De-energized** for a maglock.

- When you have finished making all of the configuration changes for your panel, connect to your panel, and then send the job to the panel.

7.6 Establish Correlations

Correlations let you establish specific relationships between panel inputs (events) and outputs (actions). Use Correlations to specify the relationships between events, actions and schedules.

Note: All inputs, outputs and schedules must be defined before applying correlations.

The application shows a particular Job with a list of correlations currently configured to a panel. A check box appears besides each correlation. When unchecked, the correlation is inactive.

Create a correlation

1. Select **Network > Panel > Correlations**. The Correlations Configuration window appears in the Right Pane.

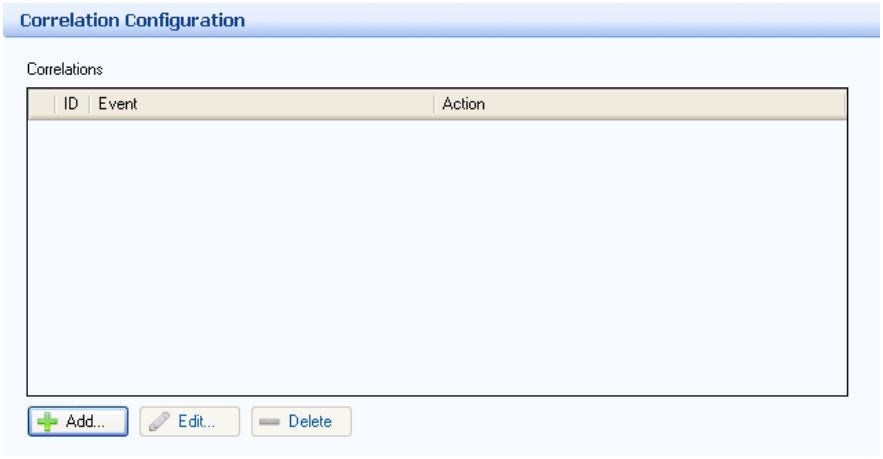


Figure 176. Correlation Configuration

2. Click **Add**. The Add Correlation window appears.

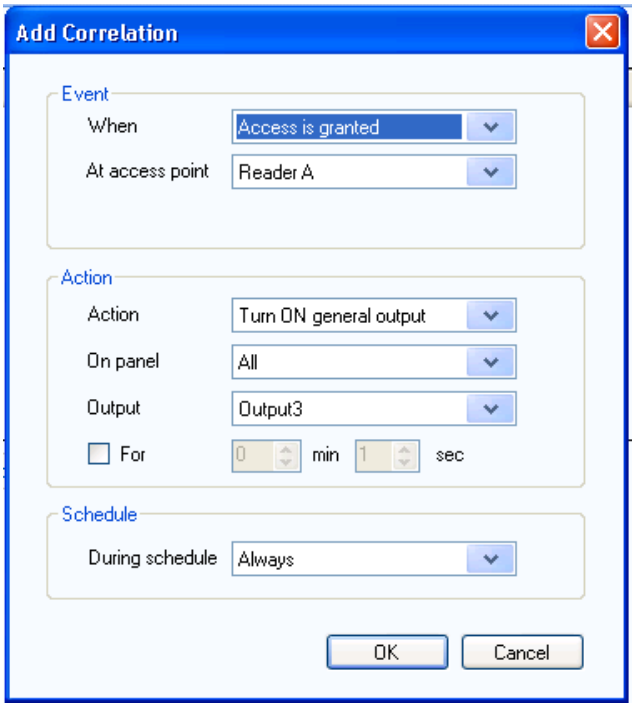


Figure 177. Add Correlation

3. Enter the following parameters:

When. This parameter defines the input event. Select one of the following:

Access is granted. Access is granted.

Access is denied. Access is denied.

Forced entry alarm. A door is forced open.

Forced entry alarm restored. The forced entry alarm is restored.

Door held open alarm. A door did not close and the door held open alarm was issued.

Door held open alarm restored. The door held open alarm is restored.

Door held open warning. A door did not close and the door held open warning was issued.

Door held open warning restored. The door held open warning was restored.

Door not open. Access granted but the door remains closed.

Request to Exit. A request to exit has been made.

Input is active. Select a panel input from 1 to 8 as defined in section 7.4.

Input is normal. The general purpose input becomes inactive.

Unlock mode is on. When in unlock mode the door is unlocked.

Unlock mode is off. When in lock mode the door is locked.

High security is on. When enabled only access cards with this privilege are able to open the door.

High security is off. When disabled all access cards are able to open the door.

Tamper detected. (TX3-CX-1 and TX3-CX-1NP) The tamper alarm is on.

Tamper restored. (TX3-CX-1 and TX3-CX-1NP) The tamper alarm is off.

At access point/Input label. This parameter defines the access point or input.

Action. Action specifies the type of action to occur for a specific input. Select one of the following:

Turn ON output. When enabled the output assigned a specific function performs the required action.

Turn OFF output. When disabled the output assigned this specific function does not perform the designated action.

Turn ON high security. When enabled only access cards with this privilege are able to open the door.

Turn OFF high security. When disabled all access cards are able to open the door.

On panel. On panel applies the action either to one of the panels on your system or to a group of panels on your system. If, for example, you have two panels (Panel1 and Panel2) in your TX3 system, you could select from the following options:

Panel1 - Apply the correlation to Panel1 only.

Panel2 - Apply the correlation to Panel2 only.

All - Apply the correlation to all Telephone Access, Card Access, and Touch Screen panels on the network.

Custom - Apply the correlation to a custom target. This option is only available for TCP/IP network connections. When you select this option, you can click on the **Custom** button to select from the following custom targets:

- **All panels on the RS485 network of the Master Node** (select a Main Node from the list)
- **All Master Nodes only**
- **All panels with RS485 address** (select the address from the list)

Note: Correlation signals are not transmitted by Touch Screen Main Nodes by default. If you plan on using the **All** or **Custom** correlation options, select the **Route IP Correlations** checkbox on one of the Main Nodes. See section 5.4.

Nano - Apply the correlation to a TX3 Nano. This option is only available for TCP/IP network connections. When you select this option, you can click on the **Nano** button and enter the IP address of a TX3 Nano. Click **Find** to find any TX3 Nanos on the network.

Output. This parameter applies the action to a specific output or access point on the panel. For an output to appear on this list it must be designated as a general purpose output. For a reader to appear on this list the output must be assigned to a reader. For a Job that uses two outputs and two readers on a Two Door Controller, select one of the following:

Output 3

Output 4

Reader A

Reader B

For. For represents the duration of the action in minutes and seconds up to a maximum of 600 minutes. Uncheck the box if you want the action to continue indefinitely.

During schedule. This parameter lets you apply this correlation to a pre-defined schedule. For a schedule to appear on this list it must be created (see section 10).

4. When you have finished making all of the configuration changes for your panel, connect to your panel, and then send the job to the panel.

Edit a correlation

1. Select a correlation and press **Edit**. The Edit Correlation window appears.
2. Provide the information as you would when creating a correlation.
3. Click **OK** to save your edits.
4. Connect to your panel, and then send the job to the panel.

Delete a correlation

1. Select a correlation and press **Delete**.
2. Connect to your panel, and then send the job to the panel.

Activate a correlation

1. Click on the check box beside the correlation as shown in Figure 178.

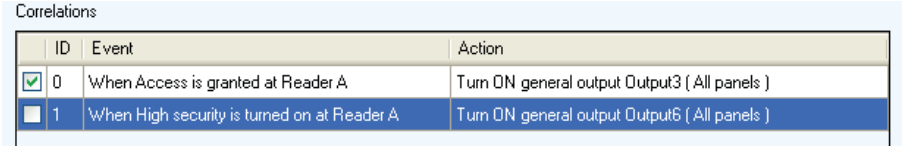


Figure 178. Correlation activation

2. Connect to your panel, and then send the job to the panel.

7.7 Configure Cards and Access Levels

Cards and **Access Levels** appear as entries in the Job tree after you have added a Card Access System panel. Cards must be added to the job and given the appropriate access level in order for access to be granted at an access point.

See section 9 for information on how to manage cards and access levels in your job.

8 Residents

The TX3 Configurator lets you add and modify residents.

This chapter explains

- Add Residents
- Modify Residents
- Delete Residents

8.1 Add Residents

The application lets you add residents and modify resident information. Adding the first access panel to the network automatically adds the resident list to the Job tree.

To facilitate the task of entering a large resident list you can add multiple resident information at the same time and then edit their automatically generated default values.

The resident list provides browsing and quick searching capabilities of resident information and displays the complete residential list when **Residents** is selected from the Job tree. Clicking the column header sorts the list by that column in either ascending or descending order.

Single residents can be connected to multiple lobby panel units, making it possible for the resident to be reached from different lobbies.

Note: All resident information is stored in the panel with the exception of profile information, which is stored on the PC. See Figure 185.

Find a resident

1. Select **Residents** from the Job tree. The Resident Configuration list appears in the Right Pane.

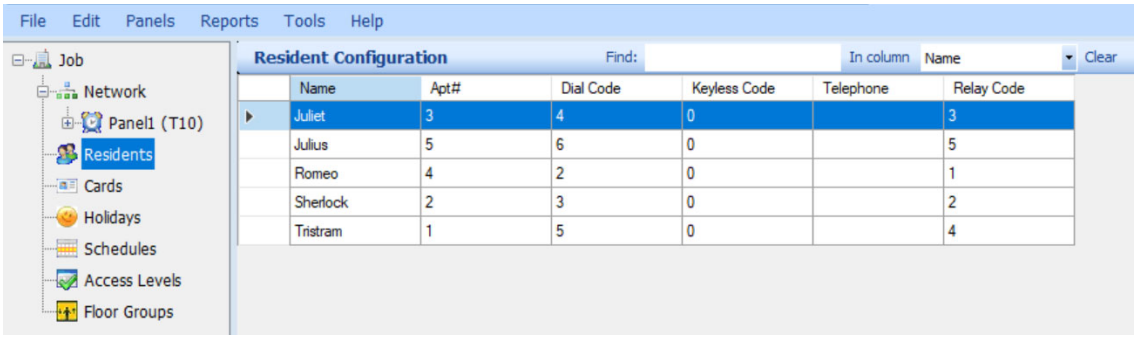


Figure 179. Resident Configuration List

2. To find a resident, enter the person's name in the Find box. The resident list automatically sorts as you type. To refine the search, select a parameter from the **In column** list.

3. Press the **Clear** button to restore the list back to its full state.

Add a resident

1. Select **Residents** from the Job tree. The Resident Configuration list appears in the Right Pane (see Figure 179).

2. Select **Add Residents** from the Menu Bar or right click on the Resident Configuration list. The Add Residents window appears.

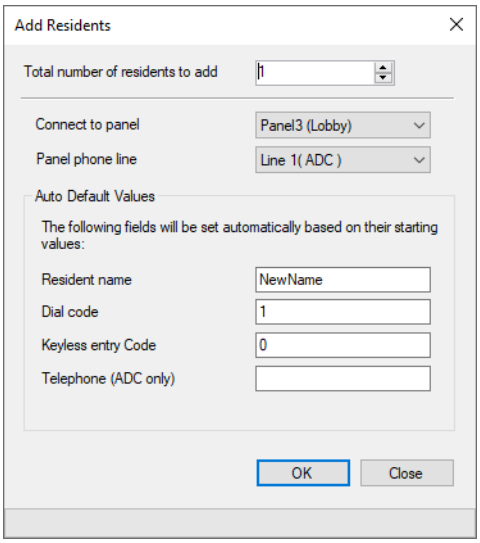


Figure 180. Add Residents

3. Provide information for the following parameters:

   Total number of residents to add. Specify the total number of residents to add.

   Connect to panel. Select the panel to add residents to.

   Panel phone line. Select the phone line on the panel the resident(s) will use.

Note: Ensure that the panel phone line is specified. If the phone line is not specified, the resident will not be added to the panel.

Resident name. Provide the resident name. If more than one resident is added at a time, a number will be attached to the names to make them unique.

Note: On a TX3-T10, enter an asterisk (*) at the beginning of the residents name to make TX3-T10 display the resident at the top of the list.

Dial code. The dial code is set automatically for each resident based on the initial starting value.

Note: The TX3-T10 has a dial code reserved for reception: **9995**. Tapping the **Reception** button on the TX3-T10 calls the resident that has the dial code 9995.

Keyless entry code. Enter zero to disable the keyless entry code for the new resident or residents. Enter a value other than zero to enable the keyless entry code for the new resident or residents. If enabled, each resident added gets a unique keyless entry code starting from the value entered and then incrementing by one for each additional resident.

Telephone (ADC only). The resident's phone number.

4. Edit each resident for specific details if multiple residents were added.
5. Click **OK** to add a resident and return to the configuration window, or click **Close** to exit without saving the changes.

8.2 Modify Residents

1. Select **Residents** from the Job tree. The Resident Configuration window appears (Figure 179).

Note: You can edit multiple residents at the same time by selecting multiple residents then right-clicking and selecting **Edit Residents**. Some options may be disabled if their values are resident specific.

2. To edit a resident's information, click its row header on the far left or double click elsewhere on the row. You may also right click and select **Edit Resident**. The Resident Details window appears.

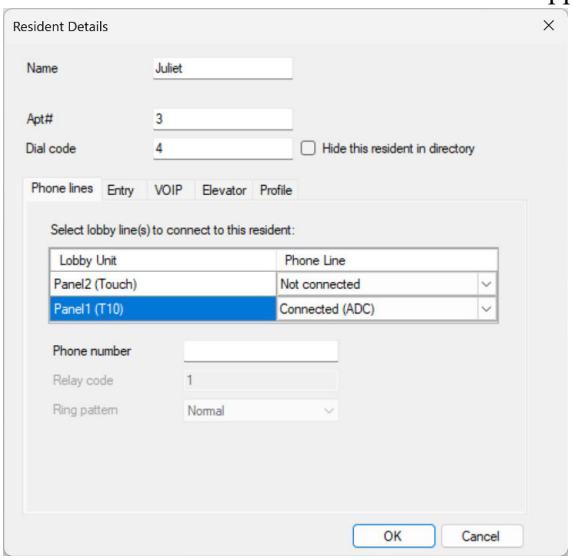


Figure 181. Resident Details

3. Provide the following information:

Name. Enter the resident's name.

Apt#. Enter the apartment or suite number.

Dial code. Enter the resident's dial code.

Hide from directory. Check this box to hide the resident's name from the panel directory.

8.2.1 Phone Lines

1. Click the **Phone lines** tab and provide the following information to determine which panels are connected to this resident.

Lobby Unit. Each lobby unit is shown in a list.

Phone Line. Select the telephone line for each lobby unit. For a TX3-T10, select **Connected** to enable the phone line for this resident.

8.2.2 Entry

1. Click the **Entry** tab. The Entry window appears.

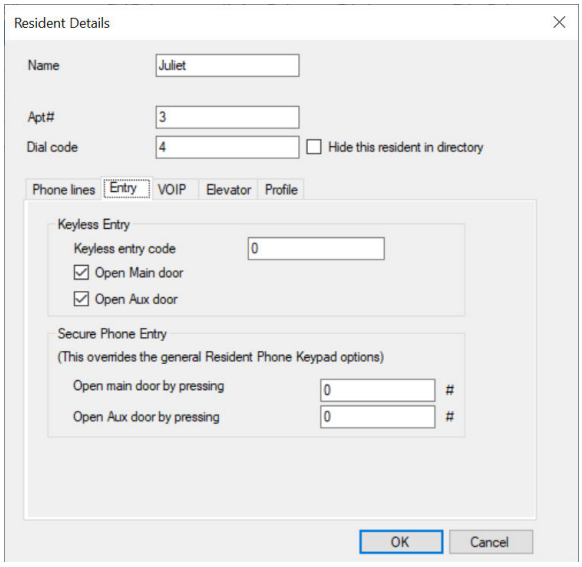


Figure 182. Resident Details - Entry

8.2.2.1 Keyless Entry

Provide the following information to enable the use of the resident keyless entry code.

Keyless entry code. Enter the resident keyless entry code using a number from 1 to 999999.

Open Main door. Selecting this option opens the main door when the resident enters their keyless entry code.

Open Aux door. Selecting this option opens the auxiliary door when the resident enters their keyless entry code.

8.2.2.2 Secure Phone Entry

Provide the following information to enable a phone entry code for this resident. The resident must enter this code on their phone followed by pound (#) in order to open the door. This entry code overrides the entry code set in the panel keypad options (section 5.1.6 for lobby panels and section 6.1.5 for TX3-T10).

Open main door by pressing. Enter a series of up to 4 digits from 0 to 9. **Do not select *.** This code (followed by pound #) will replace the button set in section 5.1.6 and section 6.1.5 for opening the main door. This applies to the specific resident.

Open aux door by pressing. Enter a series of up to 4 digits from 0 to 9 **Do not select *.** This code (followed by pound #) will replace the button set in section 5.1.6 and section 6.1.5 for opening the auxiliary door. This applies to the specific resident.

8.2.3 VOIP

The TX3-T10 device supports calling SIP usernames and includes a rollover feature. When a call is placed to the primary SIP username and the call is not answered, is rejected, or otherwise fails to connect, the system will automatically attempt to reach SIP username 2. While both the TX3-T10 and TX3 Touch devices follow the same call process, only the TX3-T10 supports calling two SIP usernames.

If the call to SIP username 2 also fails, the TX3-T10 proceeds to dial the configured phone number or NSL.

1. Click the **VOIP** tab. The VOIP window appears.

2. Type the SIP usernames of this resident in the **SIP username** and **SIP username 2** field.

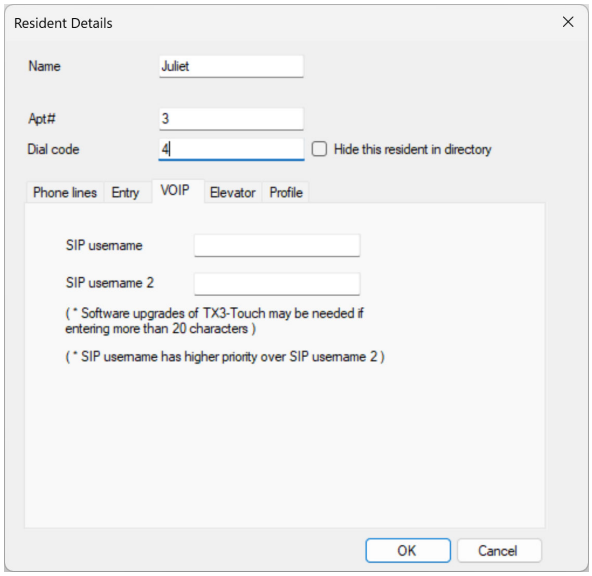


Figure 183. Resident VOIP Setup

3. Click **OK**.

8.2.4 Elevator

1. Select **Elevator**. The Elevator window appears.

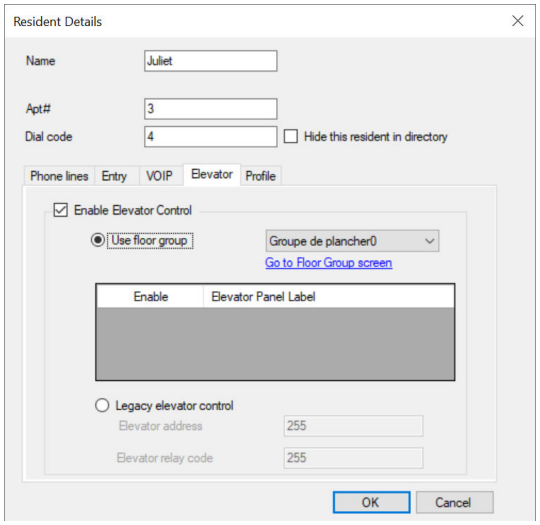


Figure 184. Resident Details - Elevator

2. Select **Enable Elevator Control** to enable elevator restriction.

   - Select **Use floor group** and select the floor groups for this resident. and select the Elevator Restriction Units that are allowed for this resident.
   - Or, select **Legacy elevator control** and provide the RS-485 address of the Elevator Restriction Unit that the resident will use, and the elevator relay code for the resident's floor.

   See section 11 for more information.

8.2.5 Profile

1. Click the **Profile** tab. The Profile window appears.

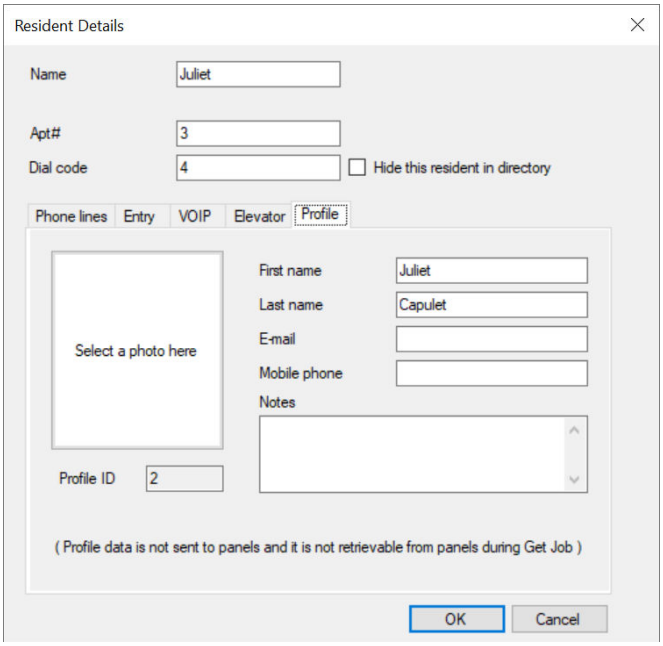


Figure 185. Resident Details - Profile

2. Provide the following information:

   Select a photo. Select the resident's photo from a directory.

   First name. Enter the resident's first name.

   Last name. Enter the resident's last name.

   Email. Enter the resident's email.

Note: After you get a job, residents' email addresses will be blank. If you want to preserve email addresses, do not use **Get Job**. See **Get a Job** on page 44.

   Mobile phone. Enter the resident's mobile phone number.

   Notes. Provide additional notes.

   Profile ID. Provide a profile ID.

3. Click **OK** to add a resident and return to the configuration window, or click cancel to exit without saving the changes.

8.3 Delete Residents

1. Right click one or more residents and then select **Delete**. Pressing **Del key** will achieve the same purpose.

2. Click **Yes** to delete a resident and return to the configuration window, or click **No** to exit without saving the changes.

9 Cards and Access Levels

Once you have added a Card Access Panel to your job, you can start adding cards and start configuring access levels.

This chapter explains

- Add or Modify Cards
- Find a Card
- Configure Access levels

9.1 Add or Modify Cards

Cards appear in the Job tree with the addition of the first Card Access panel. Selecting Cards from the Job tree displays all currently configured cards and their corresponding details on the Right Pane.

Clicking on an item in the column header sorts the list in either its ascending or descending order.

Note: All card information is stored in the panel with the exception of card profile information, which is stored on the PC in the Job database file. See Figure 191.

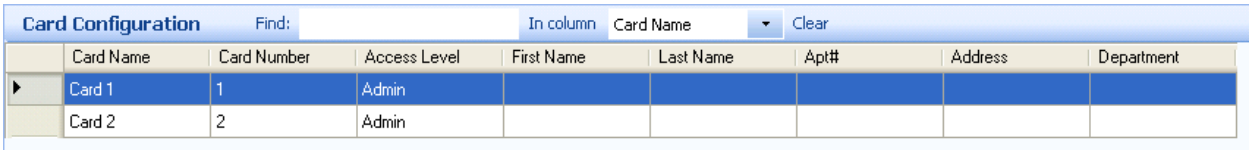


Figure 186. Card Configuration

9.1.1 Add Cards

The application lets you easily add and modify a user's card information. To facilitate the task of entering a large card list you can add multiple card information at the same time and then edit their specific values.

There are two ways to add a card: manually (you type in the card code and facility code) and automatically (you swipe the card and the system reads the card code and facility code).

For information on how to provide detailed configuration information for a card see section 9.1.2.

Add a card manually

1. Select **Add Cards** from the Menu Bar or right click in the Card Configuration window and select **Add Cards**. The Add Cards window appears.

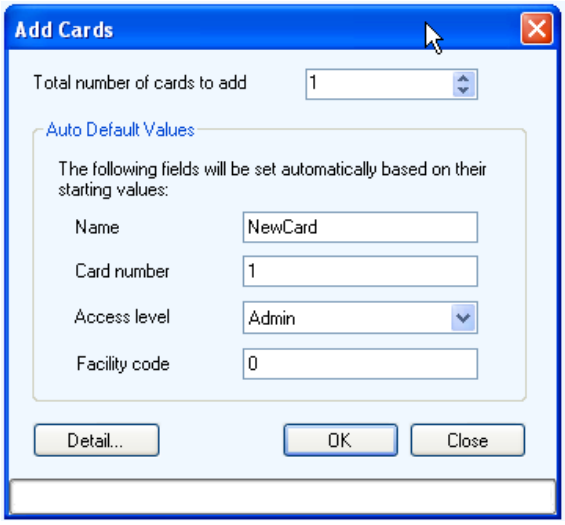


Figure 187. Add Cards

2. Provide the following information:

   Total number of cards to add. Specify the number of cards to add.

   Card name. Specify a name for the card. The maximum number of characters is 30.

   Card number. Provide a unique card number. If more than one card is added at a time, a number will be attached to the cards to make them unique.

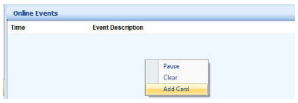
   Access Level. Select an access level from the list. Access levels are preset by the administrator. See section 9.3 for information on how to create Access Levels.

   Facility code. Enter a facility code for the card with a value from 0 to 4294967294. Access is granted when this facility code matches the value set for the Card Access Panel (see section 7.3).

3. Click **OK** to add the card(s) and return to the configuration window or click **Detail** to proceed with additional configuration as described in the next section. You may also click **Close** to save the existing changes and continue with adding another card.

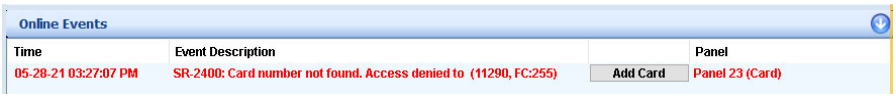
Add a card automatically

1. Right-click in the Online Events pane, and select **Add Card**.



2. Swipe a card at a reader connected to the system.

   If the card is not recognized, an **Add Card** button appears in the Online Events window.



3. Click the **Add Card** button.

   The Add Cards window appears with the card code and facility code automatically filled in.

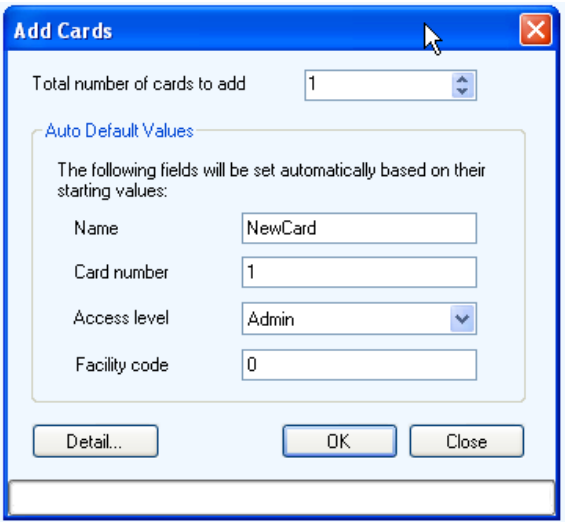


Figure 188. Add Cards

4. Provide the following information:

   Card name. Specify a name for the card. The maximum number of characters is 30.

   Access Level. Select an access level from the list. Access levels are preset by the administrator. See section 9.3 for information on how to create Access Levels.

5. Repeat steps 2 to 4 to add another card automatically.

6. When you are finished adding cards, right-click in the Online Events pane, and deselect **Add Card**.

9.1.2 Edit Card Details

A card can be edited by selecting Detail from the Add Card window or by double clicking the card.

Multiple cards can be edited at the same time by selecting and right clicking on multiple cards. Some options may be disabled or their values may not be assigned to multiple cards.

Edit card details

1. Click the row header on the far left or double click anywhere on the row. You may also right click and select **Edit Cards**. The Card Details window appears.

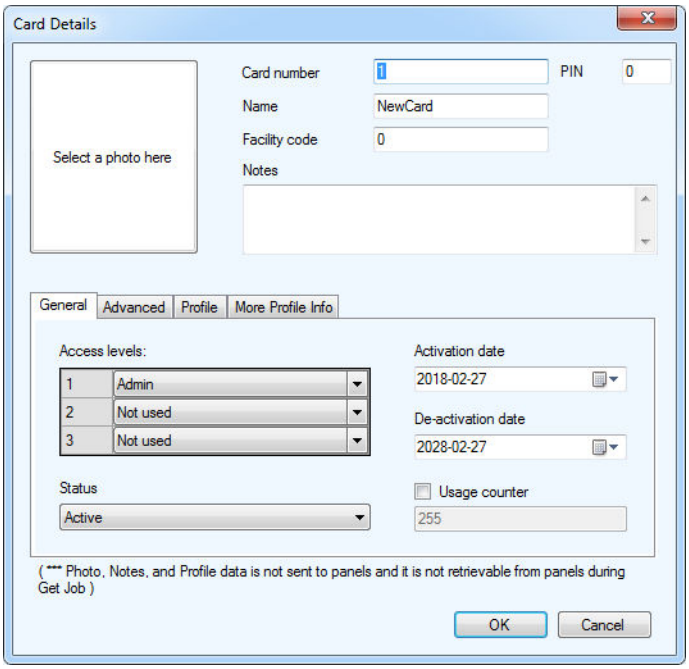


Figure 189. Card Details

2. Provide the following information:

Select a photo here. Click this area and select the card holder's photo from a directory.

Card number. Specify the card number. This number is printed on the card.

Note: For card readers with a keypad, the card number serves as the keypad entry access code.

PIN. Enter a Personal Identification Number. The PIN is 1 to 4 digits long and is programmed for each card. 0 is not accepted. This is required if the 'PIN required schedule' feature is enabled on the card reader.

Name. Provide a name for the card holder.

Facility Code. Provide the facility code.

Notes. Provide any notes for this card.

3. Select **General** and provide the following information to specify access levels and activation dates and status:

Access level. Select up to three access levels for the card. Access privileges to designated areas are defined by the administrator.

Activation date. Specify the activation date for the card.

De-activation date. Specify the de-activation date.

Status. Status shows the current status of this card. Select **Inactive** to de-activate or **Active** to activate the card.

Usage counter. Usage counter is a configurable feature that uses a counter to specify a card usage limit at a reader. Each time the card is used this value decreases by one in the database. When it reaches zero, the card is de-activated. Select the check box and specify the maximum usage count for this card. When deselected the card has an unlimited use.

Note: For the Usage counter to function enable the **Deduct Usage Count** feature on the card reader (see section 7.3).

4. Select **Advanced**. The Advanced tab appears.

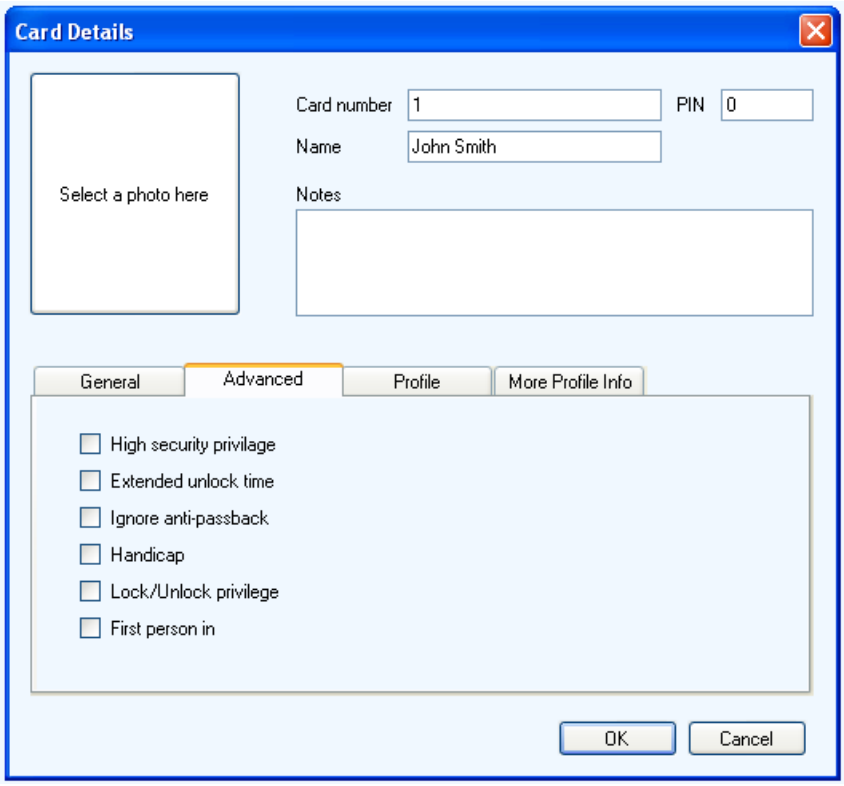


Figure 190. Card Details Advanced

5. Enable the following features to specify additional access privileges:

High security privilege. Assigns the card access rights to areas designated as high security. A card with this privilege can toggle the high security mode to either on or off by swiping the card four times in succession. This option must also be set when configuring the Access Point as described in section 7.3.

Extended unlock time. Enables the card to be used during the extended unlock time period. During this time the door remains unlocked. This option is commonly given to seniors and persons with limited mobility.

Ignore anti-passback. When this option is specified the card holder is not restricted, if set, by the timed anti-passback mode of the reader. Selecting this option allows the same card unlimited use at the same reader. To set anti-passback see section 7.3.

Handicap. Enables the card to access points designated as accessible as well as the regular lock. The access point must be designated as a handicap lock as described in section 7.5.

Lock-Unlock privilege. Enabling the lock/unlock privilege overrides any scheduled card access restrictions. An access card with lock/unlock privileges, if swiped twice in succession, toggles between lock and unlock mode. The access point must be designated as a specific lock as described in section 7.5.

First person in. When enabled the door becomes unlocked by the first valid card presented during the unlock schedule, causing the door to remain unlocked for the duration of the unlock schedule. This option must also be set when configuring the Access Point as described in section 7.3.

6. Select **Profile**. The Profile window appears.

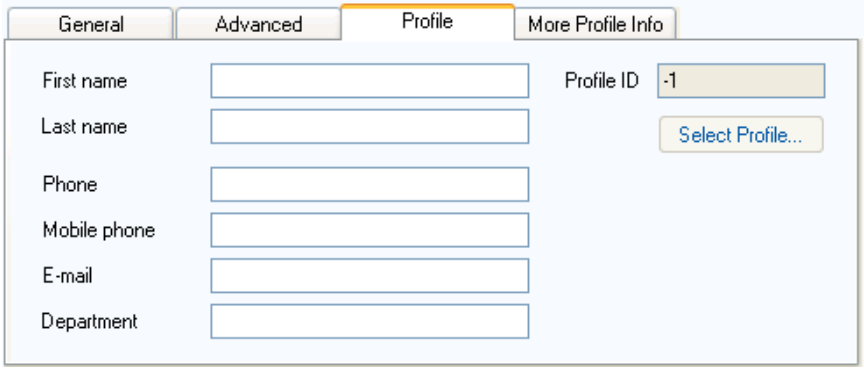


Figure 191. Card Details Profile

7. Provide the following profile information:

First name. First name of the card holder.

Last name. Last name of the card holder.

Phone. Phone number.

Mobile phone. Mobile phone number.

E-mail. Email address.

Department. Provide the business department.

Profile ID. *future use*.

Select Profile. *future use*.

8. Select More **Profile Info**. The More Profile Info window appears.

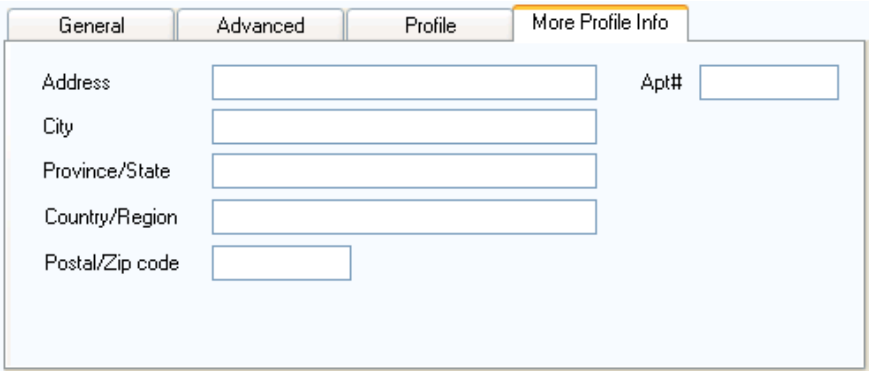


Figure 192. Card Details More Profile Info

9. Provide the following additional address information.

   Address. Resident address

   City. City name.

   Province/state. Province or state.

   Country/region. Country or region name.

   Postal/zip code. Postal or zip code.

   Apt#. Resident apartment number.

10. Click **OK** to add the card information and return to the configuration window, or click **Cancel** to exit without saving the changes.

9.2 Find a Card

The application provides you with quick browsing and searching capabilities for finding card information.

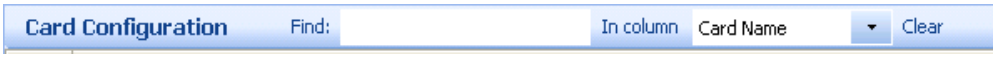


Figure 193. Card Search

To find a card, enter the card name in the **Find** box above the list. The list will automatically refresh as you type in the criteria.

To find by another column, say by card number, select Card Number in the **In column** box. To restore the full list, press the **Clear** button.

9.3 Configure Access levels

Creating an access level lets you define where and when to use a card, and how to set elevator usage if elevator restriction units are used. Access levels are assigned to cards to help the administrator keep track of access privileges (for instructions on how to assign an access level to a card see section 9.1).

You can create a maximum of 128 access levels for each controller and a recommended maximum of 2000 access levels for the job. For each access level, you can select a schedule for all of the access points in your job.

For example, if your job has a Card Access System panel called Panel1 with two access points (Reader A and Reader B), you could define the following access levels.

Access Level ID = 1

- Panel1: Reader A schedule = Always
- Panel1: Reader B schedule = Never

Access Level ID = 2

- Panel1: Reader A schedule = Office hours
- Panel1: Reader B schedule = Always

If a card is assigned Access Level 1, the user has access to Reader A on Panel1 at all times but will not have access to any other access point.

If a card is assigned Access Level 2, the user has access to Reader A during the Office Hours schedule only and will have access to all of the other access points all of the time.

Access levels appear in the Job tree with the addition of the first Card Access System panel. Selecting Access Levels from the Job tree displays all currently configured access levels and their corresponding details in the Access Level Configuration window in the Right Pane.

Create an access level

1. Select **Access Levels** from the Job tree.

   The Access Level Configuration window appears.

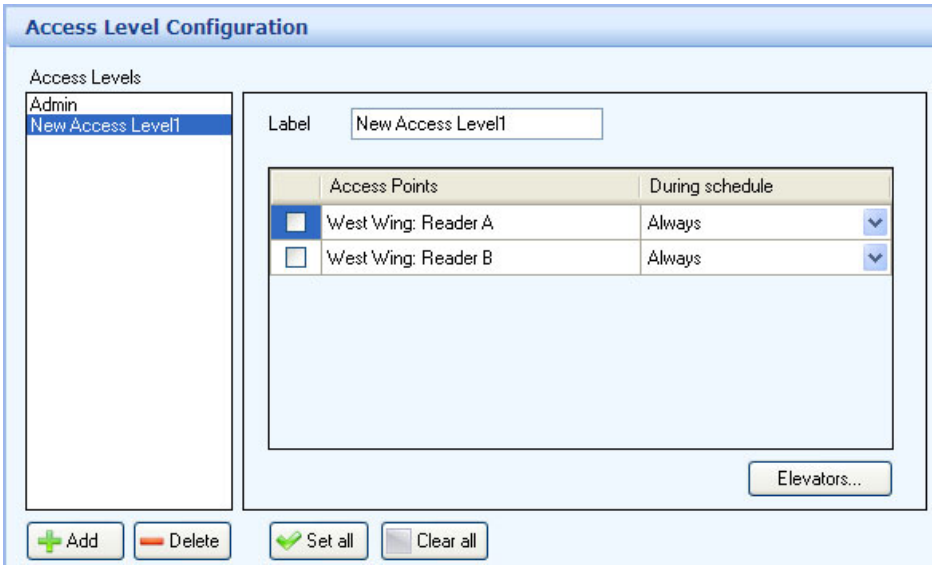


Figure 194. Access Level Configuration

Note: By default the **Admin** level has access to all access points at all times and it is not configurable.

2. Click **Add**.

   A new access level appears.

3. Supply the following information:

   Label. Provide a name for this access level.

Note: When you get a Job from a panel, access level labels are reset to their default values.

Access Points. Select the checkbox for an access point to enable or disable access. If an access point is unchecked, it will not allow access to cards with this access level.

To select or clear all access points, click the **Set all** or **Clear all** buttons.

During Schedule. From the schedule, list select when access is granted. You can select from **Always**, **Never** or any other user-defined schedule.

Elevators. Click this button to enable elevator access control for this access level. See section 11.

4. When you have finished configuring the access level, connect your computer to your TX3 network, and then send the job.

Delete an Access Level

1. Select **Access Levels** from the Job tree. The Access Level Configuration window appears.
2. Select the Access Level you want to delete from the Access Levels list.
3. Press **Delete**.
4. Connect to your TX3 network, and then send the job.

10 Holidays and Schedules

The TX3 Configurator lets you define holidays and schedules.

This chapter explains

- Holidays
- Schedules

10.1 Holidays

Holidays allow you to define a calendar of holiday periods for determining when certain panel functions, such door access permission, are allowed. A holiday is part of a schedule.

Holidays consist of start date and time, end date and time, and may include holidays that re-occur on the same date every year.

Create a holiday

1. Click **Holiday** from the Job tree. The Holiday Configuration window appears listing the available holidays.

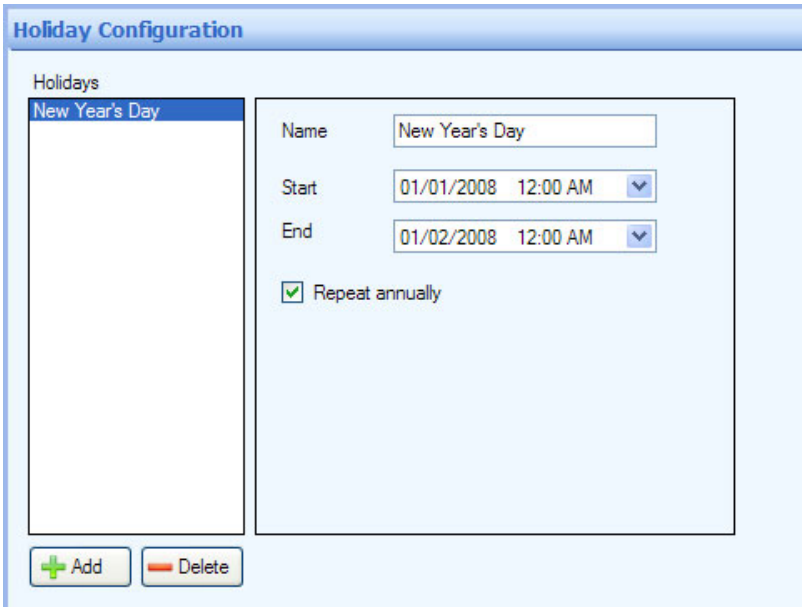


Figure 195. Holiday Configuration

2. Select a holiday or click **Add** to create a new holiday. Provide information for the following parameters:

   Name. Provide a name for the holiday.

   Start. Specify a start day and time.

   End. Specify an end day and time.

   Repeat annually. Check this box if the same start, end date and time re-occur every year.

3. Click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Delete a holiday

1. Select the holiday and click **Delete**.

2. Click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

10.2 Schedules

Schedules lets you define a timetable to establish when certain panel functions are permitted to occur, such as when calls to residents are allowed, when residents can grant access to a visitor or when the postal lock can be used. These schedules are designated and listed by name, and are available for selection wherever it is necessary to invoke access permission.

Multiple periods may be used if the schedule is not continuous or does not span to the next day.

Create a schedule

1. Click **Schedules** from the Job tree. The Schedule Configuration window appears listing the available schedules.

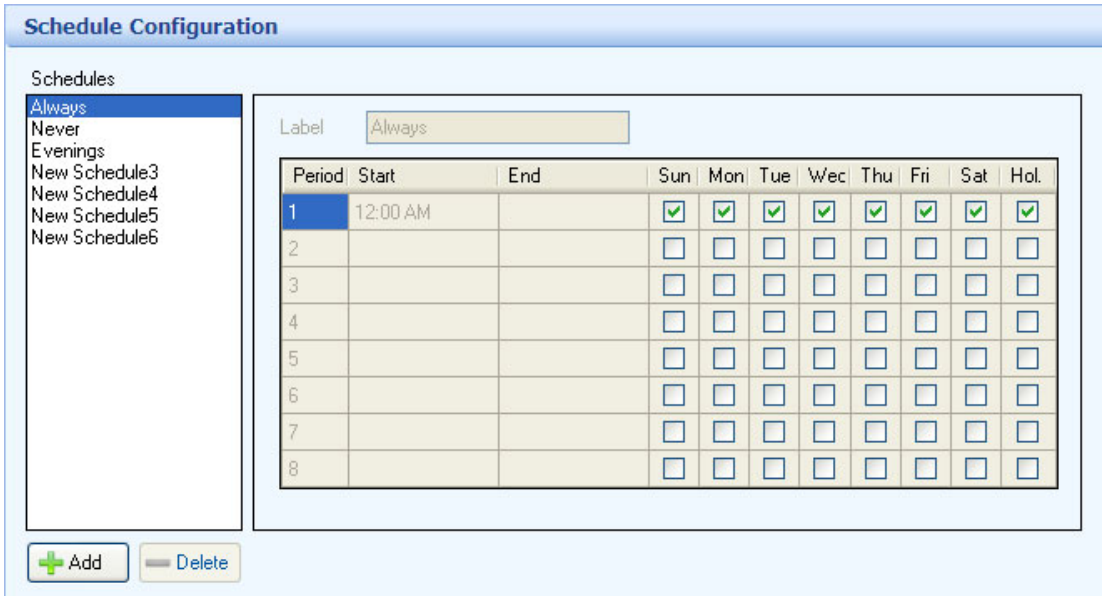


Figure 196. Schedule Configuration

2. Select a schedule or click **Add** to create a new schedule. Provide information for the following parameters:

   Label. Provide a name for the schedule.

Start. Specify a start time.

End. Specify an end time.

Sun to Sat. Select the day or days of the week for the schedule to take effect.

Hol. Select this check box to apply to include holidays. Holidays are defined on the Holiday View.

Note: If your schedule starts before midnight on one day and ends the next day, you must define **two** periods (one for each day). For example, if you have a schedule that goes from 10:00PM on Tuesday to 2:00AM on Wednesday, you need one period for Tuesday and a second period for Wednesday. The Tuesday period starts at 10:00PM and ends at 11:59PM; the Wednesday period starts at 12:00AM and ends at 2:00AM.

3. Click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

Delete a schedule

1. Select the schedule and click **Delete**.

2. Click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

11 Elevator Control

This chapter describes how to set up elevator control in the TX3 Configurator software.

This chapter explains

- Before you Begin
- Configure Card Access with Elevator Restriction Firmware Version 2.4.x or 3.4.x or higher
- Configure Card Access with Elevator Restriction Firmware Version 2.4.x or 3.4.x or higher
- Configure Card Access with Elevator Restriction Firmware 2.0.x, 3.0.x, or 3.1.x
- Configure Residents with Elevator Restriction Firmware Version 2.4.x or 3.4.x or higher
- Configure Residents with Elevator Restriction Firmware 2.0.x, 3.0.x, or 3.1.x

11.1 Before you Begin

Make sure that you are using the right firmware versions as described in section 1.4. You must have the TX3 Configurator version of 2.12.12 or higher to complete the instructions in this chapter.

Read LT-9940 the TX3 Elevator Restriction Installation and Operation Manual for detailed information on elevator control.

11.2 Configure Card Access with Elevator Restriction Firmware Version 2.4.x or 3.4.x or higher

To configure elevator restriction you must:

1. Add Elevator Restriction Units to the Job Tree
2. Configure an Access Point to Control an Elevator Restriction Unit
3. Create a Floor Group
4. Create an Access Level
5. Assign a Floor Group to the Access Level
6. Assign Cards to the Access Level

Follow the instructions below to complete these steps.

11.2.1 Add Elevator Restriction Units to the Job Tree

Note: You can add up to 6 TX3-ER-8(-A) Elevator Restriction Units (ERU) to a job, and up to 16 TX3-ER-8-B Elevator Restriction Units (ERU 2.0) to a job. The maximum number of Elevator Restriction Units in a job is 16.

1. Select **Edit** > **Add Panel**.
2. If the panel is connected over TCP/IP, follow the instructions in section 3.1.2.1 to add it.
3. Provide the following information.

   Label. Enter a name for the Elevator Restriction Unit.

   Address. Specify the RS-485 address of the Elevator Restriction Unit.

   Panel Mode.

- ERU (Elevator Restriction Unit) for TX3-ER-8 or TX3-ER-8-A
- ERU 2.0 (Elevator Restriction Unit) for TX3-ER-8-B

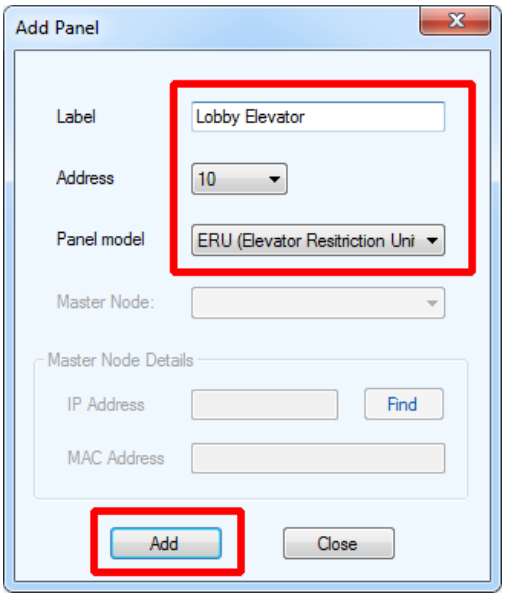


Figure 197. Add ERU

4. Click **Add**.
5. Repeat these steps for every Elevator Restriction Unit in the job.

11.2.2 Configure an Access Point to Control an Elevator Restriction Unit

1. Expand the Access Point list and select the access point that will control an elevator restriction unit.

2. Click the **Elevator** tab.

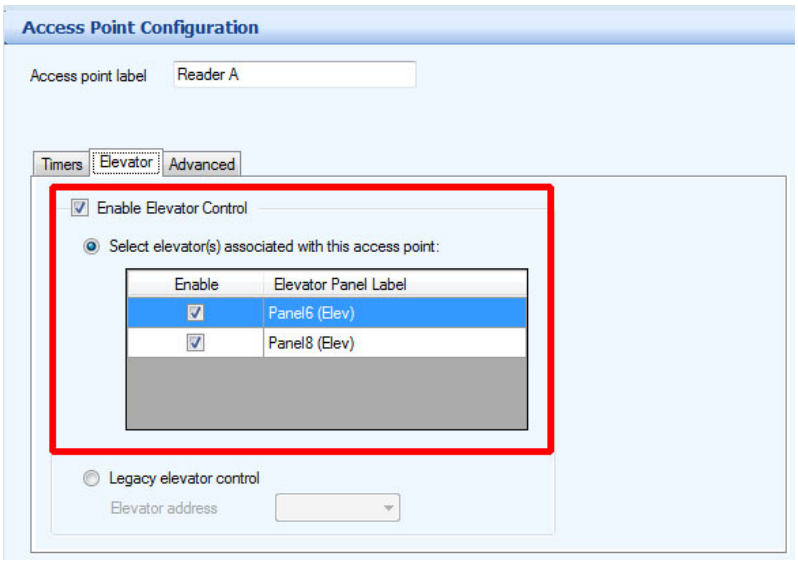


Figure 198. Access Point Configuration - Elevator Access

3. Select **Enable Elevator Control**.
4. Select the Elevator Restriction Units that this access point controls.

11.2.3 Create a Floor Group

Floor groups are groups of floors that are assigned to access levels.

1. Select **Floor Groups** from the Job tree.
2. Click **Add**.

Floor Group0 appears.

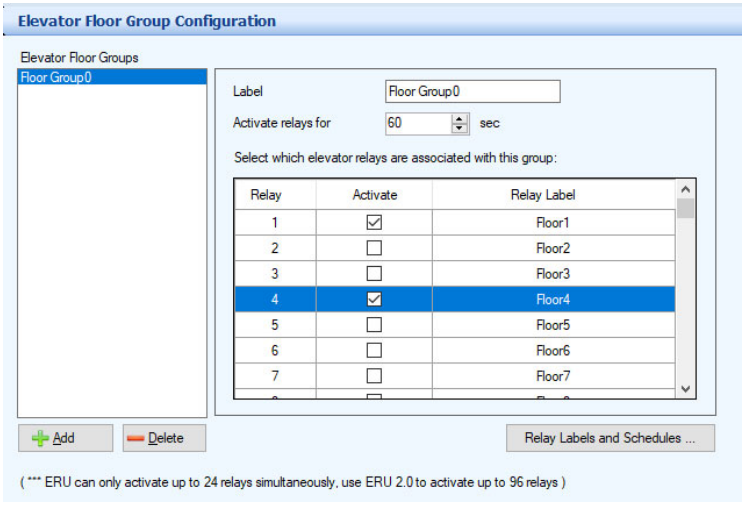


Figure 199. Floor Groups

3. Select the floors that you want in this floor group.

Note: With TX3-ER-8(-A) (ERU), a maximum of 24 relays can be assigned to a floor group. With TX3-ER-8-B (ERU 2.0), a maximum of 96 relays can be assigned to a floor group.

4. Provide the following information.

   Activate relays for. Specify the amount of time that the ERU relays are active. This timer starts when the access point reads the card.

Note: The minimum is 5 seconds and the maximum is 600 seconds.

5. Click **Add** to add another floor group.

Edit relays and schedules

1. Click **Relay Labels and Schedules**.

The Edit Relay Labels and Schedules window appears.

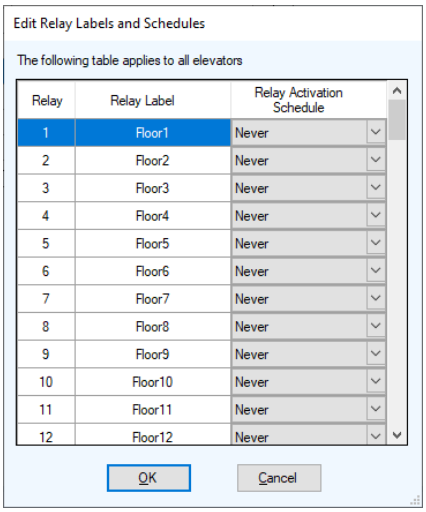


Figure 200. Edit Relay Labels and Schedules

2. Select a relay label, then double-click it.

3. Type a new name for the relay.

Note: Relay labels are the same for all elevator restriction units in the job.

4. Under **Relay Activation Schedule**, select when this relay should be active. You can select **Always**, **Never**, or another user-defined schedule. See section 10.2 for instructions on creating schedules.

Note: Relay schedules work only with TX3-ER-8-B (ERU 2.0).

5. Click **OK**.

11.2.4 Create an Access Level

1. Select **Access Levels** from the Job tree.

The Access Level Configuration window appears.

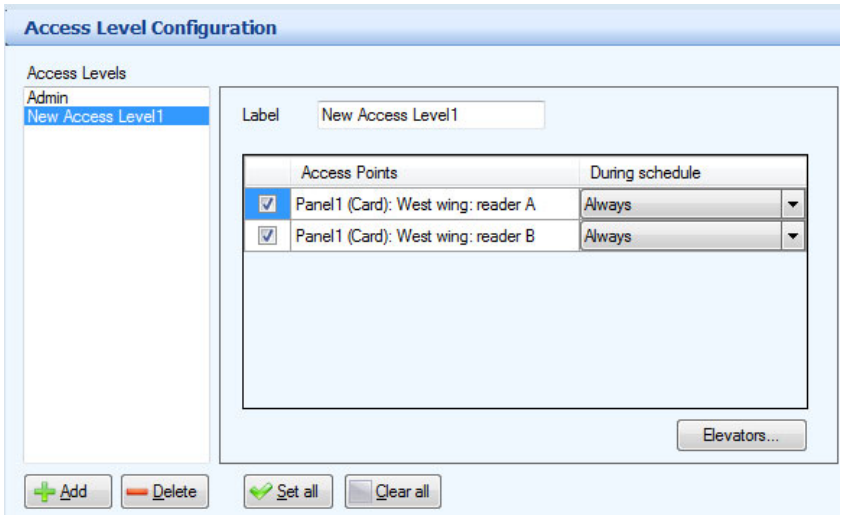


Figure 201. Access Level Configuration

Note: The Admin level includes all access points. This cannot be changed.

2. Click **Add**.

   A new access level appears.

3. Supply the following information:

   Label. Provide a name for this access level.

   Access Points. Select the checkbox for an access point to enable or disable access. If an access point is checked, it will allow access to cards with this access level. If an access point is unchecked, it will not allow access to cards with this access level.

   To select or clear all access points, click the **Set all** or **Clear all** buttons.

   During Schedule. From the menu, select when the access point should grant access. You can select **Always**, **Never**, or another user-defined schedule. See section 10.2 for instructions on creating schedules.

11.2.5 Assign a Floor Group to the Access Level

1. From the Access Level Configuration window, select the access level, and then click the **Elevators** button.

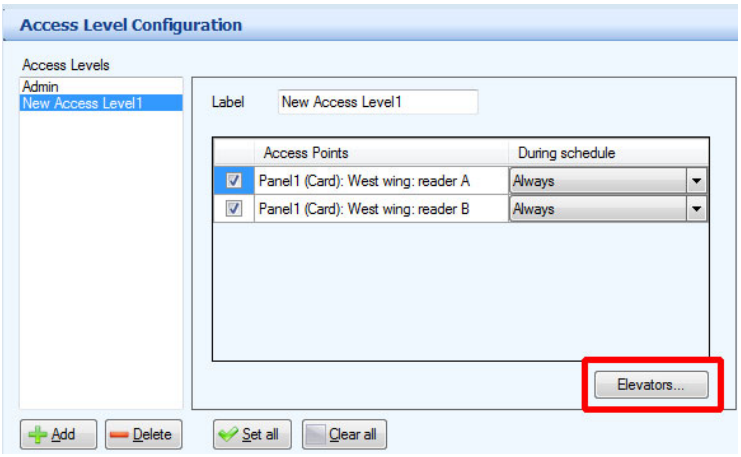


Figure 202. Access Level Configuration - Elevators button

The Elevator Control window appears.

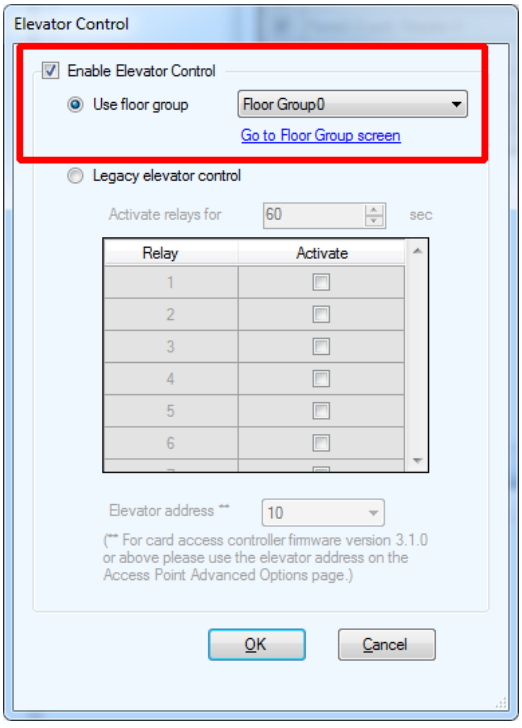


Figure 203. Elevator Control

2. Select **Enable Elevator Control**, and select **Use floor group**.

3. If no floor groups are defined, click **Go to Floor Group screen** to define them. See section 11.2.3.

4. Select the floor group associated with this access level.

5. Click **OK**.

11.2.6 Assign Cards to the Access Level

1. Select **Cards** from the Job tree.

2. The Card Configuration window appears.

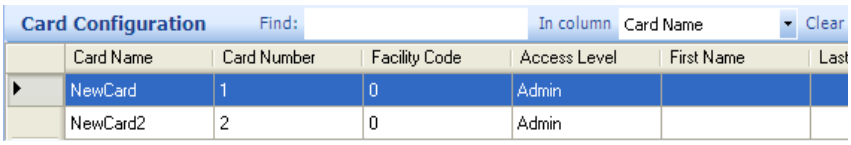


Figure 204. Card Configuration

3. To edit a card, click the row header on the far left or double click anywhere on the row.

Note: You can edit multiple cards at the same time by selecting and right clicking on multiple cards.

The Card Details window appears.

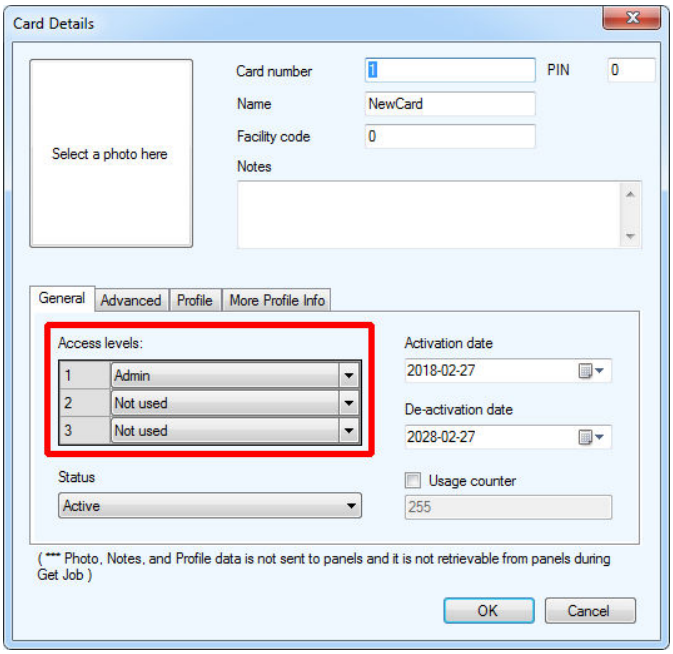


Figure 205. Card Details

4. In the **Access Level** menu, select up to three access levels for the card. Access privileges to designated areas are defined by the administrator.

5. Click **OK**, and send the job to the panel.

11.3 Configure Card Access with Elevator Restriction Firmware 2.0.x, 3.0.x, or 3.1.x

To configure elevator restriction you must:

1. Configure an Access Point to Control an Elevator Restriction Unit
2. Create an Access Level
3. Assign Floors to the Access Level
4. Assign Cards to the Access Level

Follow the instructions below to complete these steps.

11.3.1 Configure an Access Point to Control an Elevator Restriction Unit

1. Expand the Access Point list and select the access point that will control an elevator restriction unit.

2. Click the **Elevator** tab.

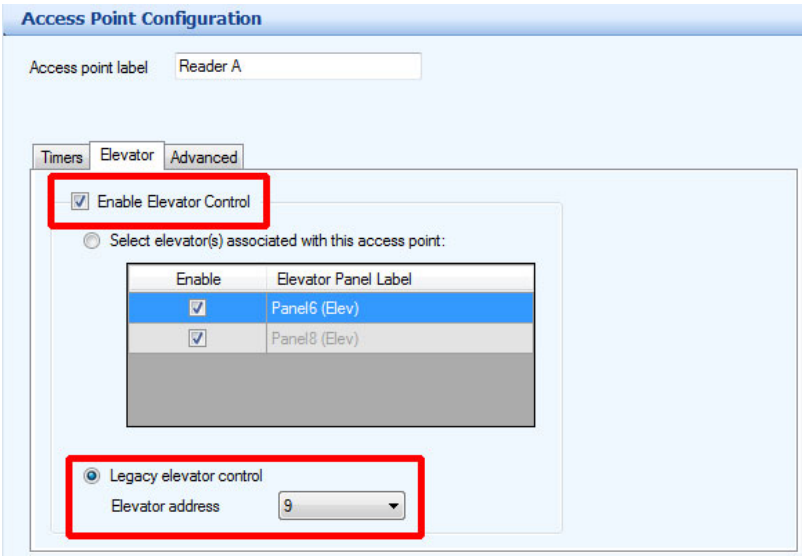


Figure 206. Access Point Configuration - Elevator Access

3. Select **Enable Elevator Control**.

4. Select **Legacy elevator control**.

5. If you have Elevator Restriction Unit firmware version 3.1.0 or higher, select the RS-485 address of the elevator restriction unit that you want this access point to control.

   If you have an Elevator Restriction Unit firmware version lower than 3.1.0, ignore this menu.

11.3.2 Create an Access Level

1. Select **Access Levels** from the Job tree.

The Access Level Configuration window appears.

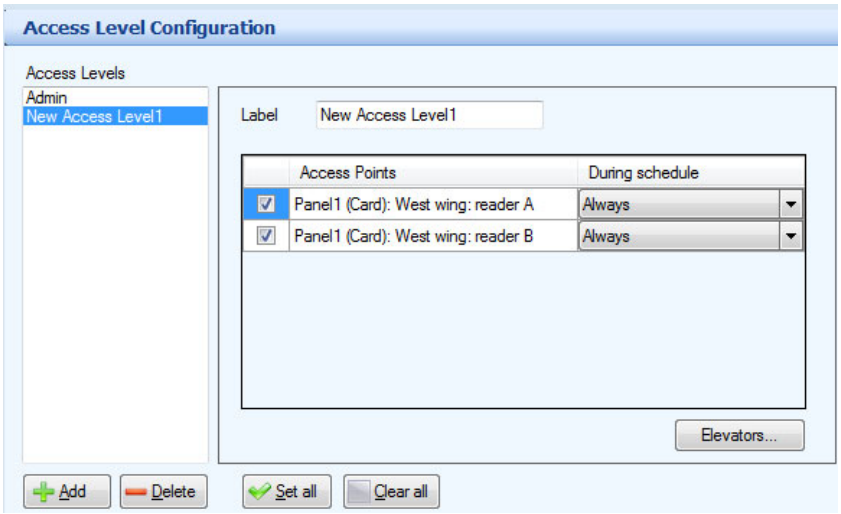


Figure 207. Access Level Configuration

Note: You cannot change the access points assigned to the Admin level, but you can change the elevators.

2. Click **Add**.

   A new access level appears.

3. Supply the following information:

   Label. Provide a name for this access level.

   Access Points. Select the checkbox for an access point to enable or disable access. If an access point is checked, it will allow access to cards with this access level. If an access point is unchecked, it will not allow access to cards with this access level.

   To select or clear all access points, click the **Set all** or **Clear all** buttons.

   During Schedule. From the menu, select when access is granted. You can select **Always**, **Never**, or another user-defined schedule. See section 10.2 for instructions on creating schedules.

11.3.3 Assign Floors to the Access Level

1. From the Access Level Configuration window, select the access level, and then click the **Elevators** button.

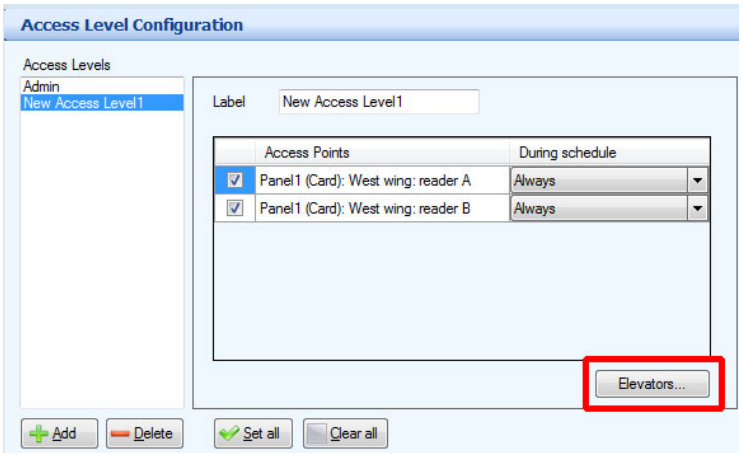


Figure 208. Access Level Configuration - Elevators button

The Elevator Control window appears.

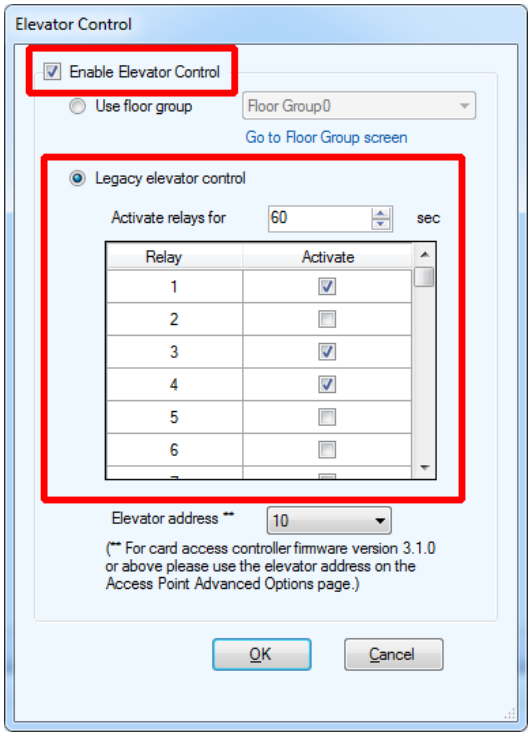


Figure 209. Elevator Control

2. Select **Enable Elevator Control**.

3. Select **Legacy elevator control**.

4. Provide the following information to restrict elevator use:

   Activate relays for. Specify the amount of time that the ERU relays are active. This timer starts when the access point reads the card.

Note: The minimum is 5 seconds and the maximum is 600 seconds.

Activate. Select the relay for each floor that requires access.

Note: With Elevator Restriction Unit firmware version 2.0.x and 3.0.x, a maximum of 16 relays can be assigned to an access level.

With Elevator Restriction Unit firmware version 3.1.x, a maximum of 24 relays can be assigned to an access level.

Elevator address. If you have an Elevator Restriction Unit firmware version lower than 3.1.0, select the RS-485 address of the elevator restriction unit for this access level.

If you have Elevator Restriction Unit firmware version 3.1.0 or higher, ignore the **Elevator address** menu.

5. Click **OK**.

11.3.4 Assign Cards to the Access Level

1. Select **Cards** from the Job tree.

2. The Card Configuration window appears.

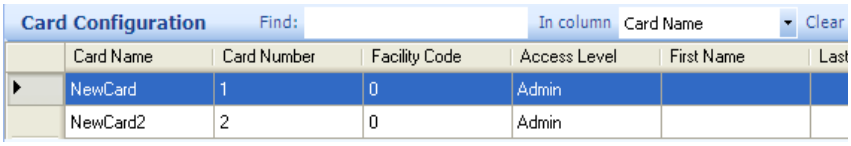


Figure 210. Card Configuration

3. To edit a card, click the row header on the far left or double click anywhere on the row.

Note: You can edit multiple cards at the same time by selecting and right clicking on multiple cards.

The Card Details window appears.

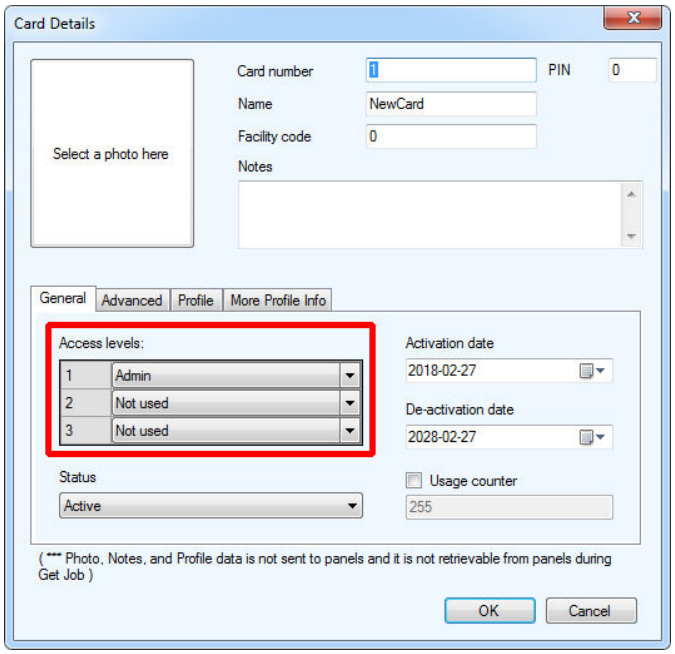


Figure 211. Card Details

4. In the **Access Level** menu, select up to three access levels for the card. Access privileges to designated areas are defined by the administrator.

5. Click **OK**, and send the job to the panel.

11.4 Configure Residents with Elevator Restriction Firmware Version 2.4.x or 3.4.x or higher

Note: You cannot configure residents for elevator Restriction from a Touch Screen. You must use the PC-based Configurator.

The elevator restriction feature limits building accessibility by granting the visitor access only to the destination floor. This prevents the visitor from accessing non-designated floors.

To configure elevator restriction you must:

1. Add Elevator Restriction Units to the Job Tree

2. Create a Floor Group

3. Configure Residents for Elevator Restriction

Follow the instructions below to complete these steps.

11.4.1 Add Elevator Restriction Units to the Job Tree

Note: You can add up to 6 TX3-ER-8(-A) Elevator Restriction Units (ERU) to a job, and up to 16 TX3-ER-8-B Elevator Restriction Units (ERU 2.0) to a job. The maximum number of Elevator Restriction Units in a job is 16.

1. Select **Edit** > **Add Panel**.
2. Provide the following information.

   Label. Enter a name for the Elevator Restriction Unit.

   Address. Specify the RS-485 address of the Elevator Restriction Unit.

   Panel Mode.

   - ERU (Elevator Restriction Unit) for TX3-ER-8 or TX3-ER-8-A
   - ERU 2.0 (Elevator Restriction Unit) for TX3-ER-8-B

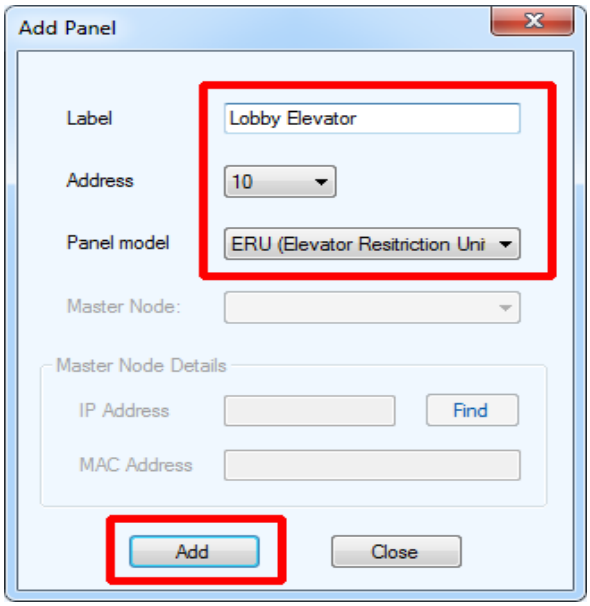


Figure 212. Add ERU

3. Click **Add**.
4. Repeat these steps for every Elevator Restriction Unit in the job.

11.4.2 Create a Floor Group

1. Select **Floor Groups** from the Job tree.
2. Click **Add**.

   Floor Group0 appears.

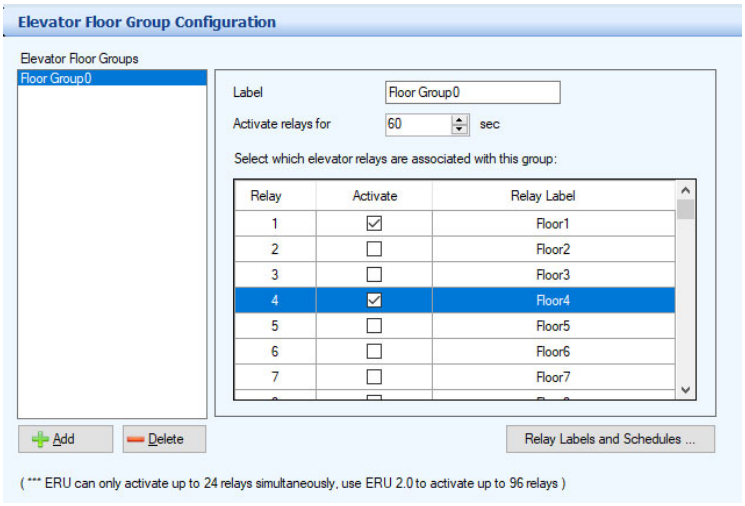


Figure 213. Floor Groups

3. Select the floors that you want in this floor group.

Note: With TX3-ER-8(-A) (ERU), a maximum of 24 relays can be assigned to a floor group. With TX3-ER-8-B (ERU 2.0), a maximum of 96 relays can be assigned to a floor group.

4. Provide the following information.

   Activate relays for. Specify the amount of time that the ERU relays are active. This timer starts when the system grants the visitor access.

Note: The minimum is 5 seconds and the maximum is 600 seconds.

5. Click **Add** to add another floor group.

Note: The timers for the relays are set in the Floor Group Configuration. The Elevator restriction time in the Advanced tab of Panel Configuration is not used.

Edit relays and schedules

1. Click **Relay Labels and Schedules**.

   The Edit Relay Labels and Schedules window appears.

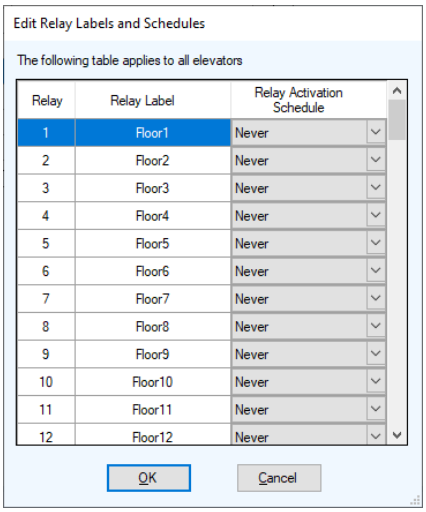


Figure 214. Edit Relay Labels and Schedules

2. Select a relay label, then double-click it.
3. Type a new name for the relay.

Note: Relay labels are the same for all elevator restriction units in the job.

4. Under **Relay Activation Schedule**, select when this relay should be active. You can select **Always**, **Never**, or another user-defined schedule. See section 10.2 for instructions on creating schedules.

Note: Relay schedules work only with TX3-ER-8-B (ERU 2.0).

5. Click **OK**.

11.4.3 Configure Residents for Elevator Restriction

1. Select **Residents** from the Job tree.

The Resident Configuration window appears (Figure 215).

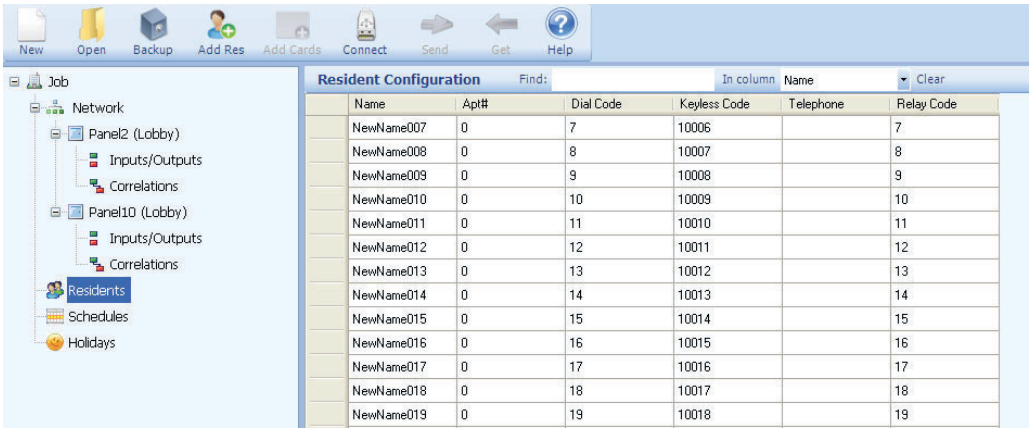


Figure 215. Resident Configuration List

2. Click **Edit** > **Edit Resident**.

The Resident Details window appears.

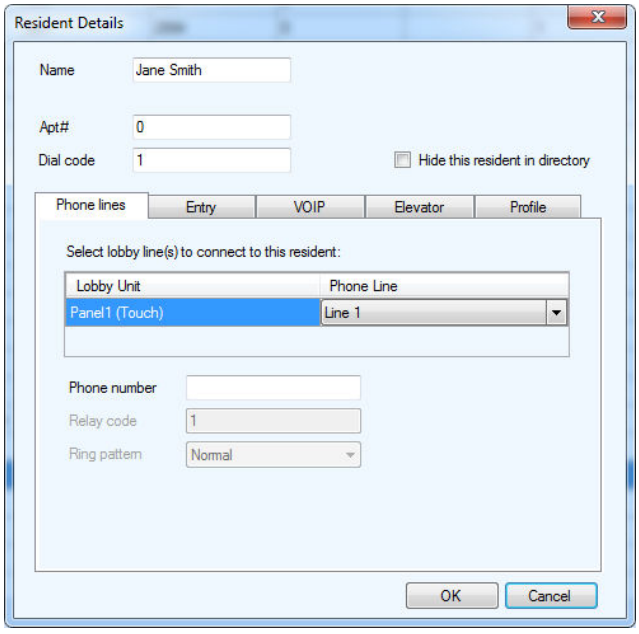


Figure 216. Resident Details

3. Click the **Elevator** tab.

The Elevator window appears.

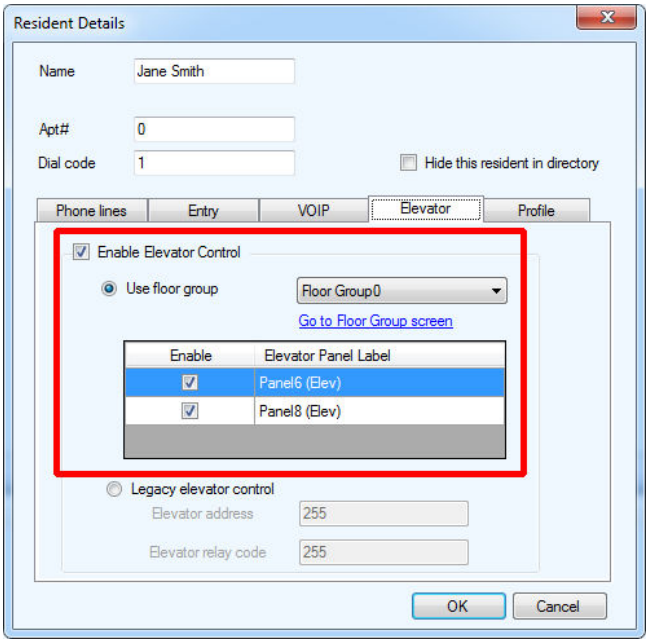


Figure 217. Resident Details - Elevator

4. Select **Enable Elevator Control**.
5. Select **Use floor group**.
6. If no floor groups are defined, click **Go to Floor Group screen** to define them. See section 11.4.2.
7. Select the floor group for this resident.
8. Select the Elevator Restriction Units that are allowed for this resident.
9. Click **OK**, and send the job to the panel.

11.5 Configure Residents with Elevator Restriction Firmware 2.0.x, 3.0.x, or 3.1.x

The elevator restriction feature limits building accessibility by granting the visitor access only to the destination floor. This prevents the visitor from accessing non-designated floors.

To configure elevator restriction you must:

1. Configure a Resident for Elevator Restriction
2. Configure the Elevator Restriction Time

Follow the instructions below to complete these steps.

11.5.1 Configure a Resident for Elevator Restriction

1. Select **Residents** from the Job tree.

   The Resident Configuration window appears.

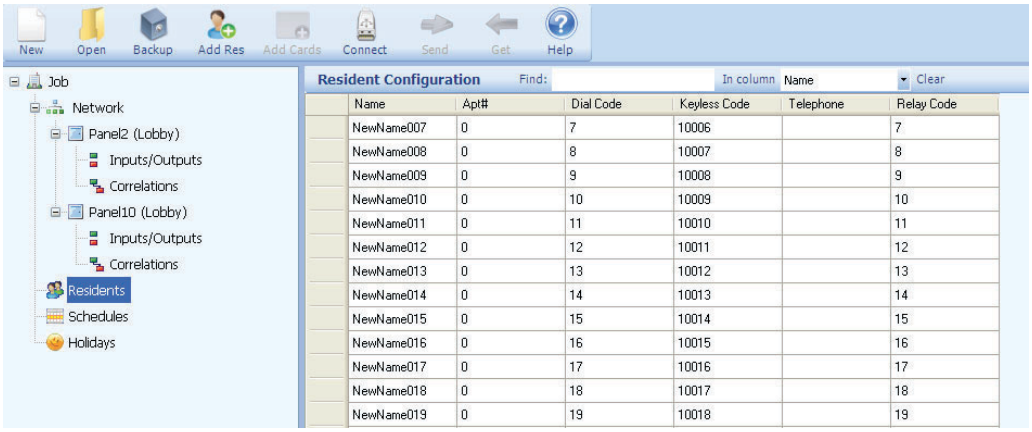


Figure 218. Resident Configuration List

2. Click **Edit** > **Edit Resident**.

   The Resident Details window appears.

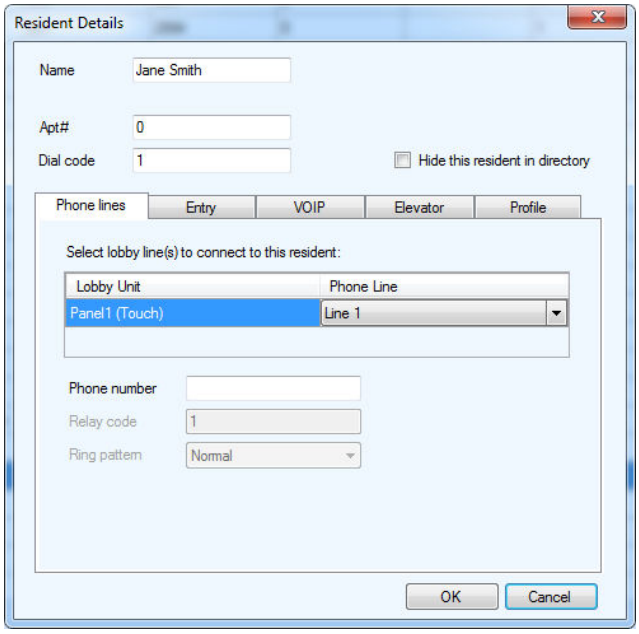


Figure 219. Resident Details

3. Click **Elevator**.

   The Elevator window appears.

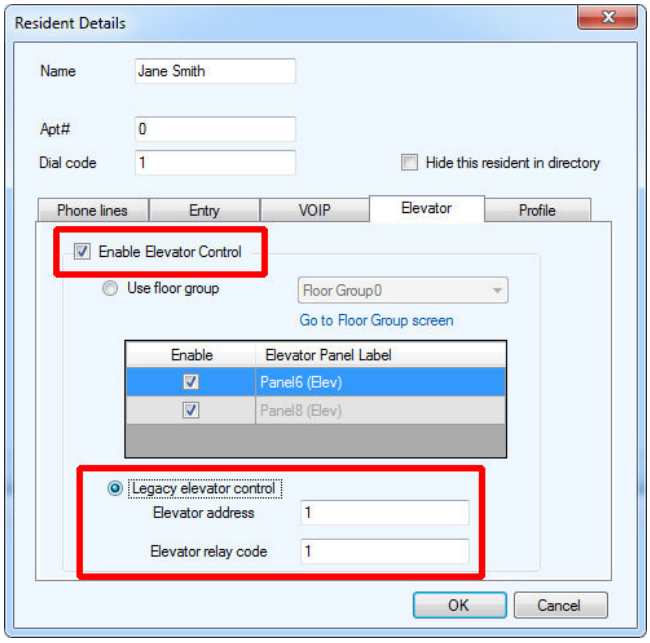


Figure 220. Resident Details - Elevator

4. Select **Enable Elevator Control**, then select **Legacy elevator control**.

5. Provide the following information to restrict elevator use:

   Elevator address. Type the RS-485 address of the Elevator Restriction Unit that the resident will use.

   Elevator relay code. Type the elevator relay code for the resident's floor.

6. Click **OK**.

11.5.2 Configure the Elevator Restriction Time

The elevator restriction time determines the amount of time that an elevator is accessible for a visitor after the resident grants access.

1. Select a telephone access panel.

   The Panel Configuration window appears.

2. Click the **Advanced** tab from the Panel Configuration window.

The Advanced window appears.

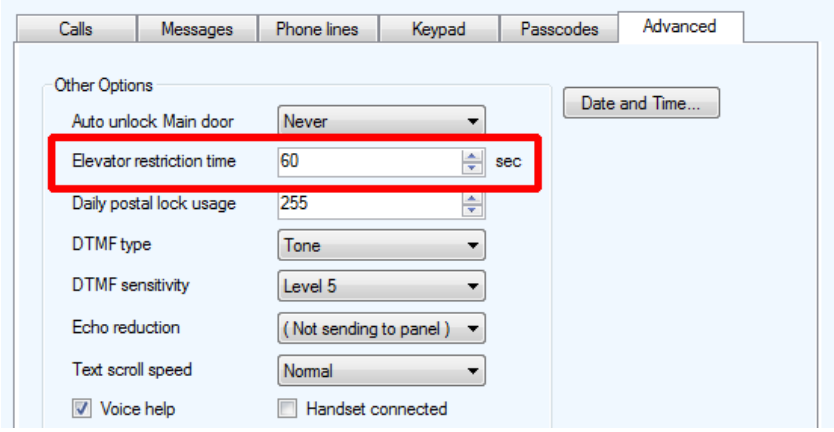


Figure 221. Panel Configuration - Advanced

3. Beside **Elevator restriction time**, select the amount of time that an elevator is accessible for a visitor after the resident grants access. This timer starts when the system grants the visitor access.

Note: The minimum is 5 seconds and the maximum is 600 seconds.

4. Click **OK**, and send the job to the panel.

12 Monitoring and Alerts

The TX3 Configurator lets you monitor the system information and status.

This chapter explains

- Monitoring
- Alerts

12.1 Monitoring

The TX3 Configurator displays all network and access point status. Selecting Monitoring displays all panels and their corresponding details in the Network Status window in the Right Pane.

12.1.1 Network Status

Network status provides information about panel connectivity and shows the existing state as ‘normal’, ‘trouble’, ‘alarm’, or ‘offline’, as well as the firmware version number. Access to additional panel options is available.

Access network status

1. Start the TX3 Configurator and then connect to your job.
2. Click **Monitoring** in the Mode Selection section of the TX3 Configurator window.
3. Click **Network Status** on the Job tree. The Network Status window appears showing the state of each panel.

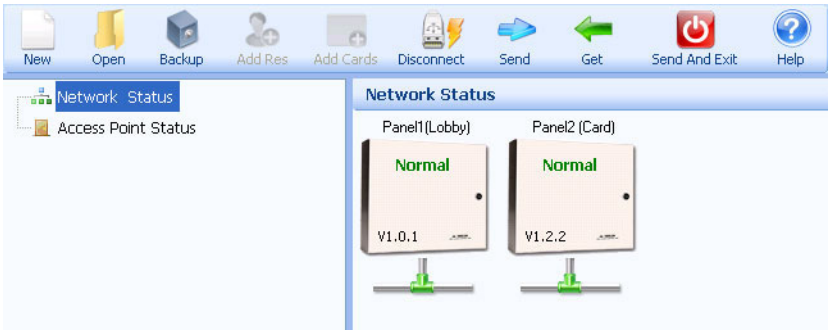


Figure 222. Network Status

4. Click the panel, and then select from one of the following options. The options available depend on the type of panel.
   - Panel Information
   - Set Date and Time
   - Set Panel Passcode
   - Event Logs
   - Elevator Commands

12.1.2 Panel Information

Panel Information shows information including the panel name, type, model, firmware version, hardware version, RS-485 address, IP address, network panel ID and the date of the last change. For Touch screens, the window also shows the Touch software version, Touch hardware version, Touch database version, Touch GUID, and the WAN IP address.

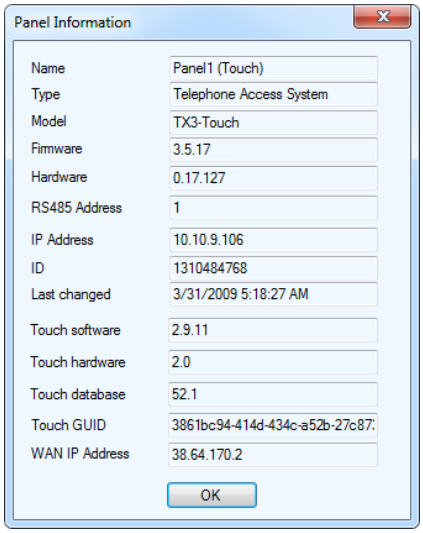


Figure 223. Panel Information

12.1.3 Set Date and Time

Selecting **Set Date and Time** lets you set the panel clock to a time other than the PC clock. Every time you access the Set Date and Time window the current PC time is shown.

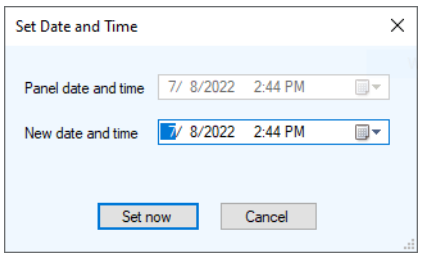


Figure 224. Set Date and Time

12.1.4 Set Panel Passcode

Set Panel Passcode allows you to set the level 3 passcode. This passcode must match the passcode used to connect to the panel (section 3.3).

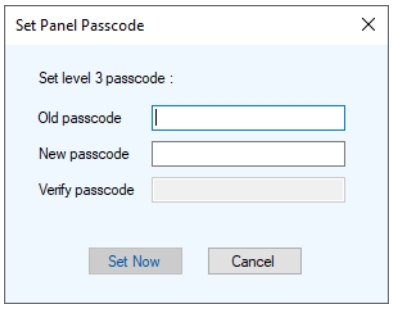


Figure 225. Set Panel Passcode

Note: The default passcode is 3333.

Note: For Touch Screen panels, this only sets the passcode for the lobby controller panel inside the Touch Screen. It does not change the administrator password used to log in to the Touch Screen.

12.1.5 Event Logs

Event Logs lets you read the user and system logs, and save them to the database. You may also erase the logs from the panel or from the database.

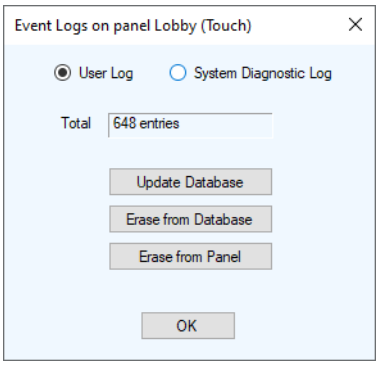


Figure 226. Event Logs

12.1.6 Elevator Commands

If the panel is a TX3-ER-8-B Elevator Restriction Unit (ERU 2.0), then select **Elevator Commands** to activate elevator relays. See section 12.1.9.

12.1.7 Determine the Model of Telephone Access Controller Board

1. Start the TX3 Configurator and then connect to your job.
2. Click **Monitoring** in the Mode Selection section of the TX3 Configurator window.
3. Click **Network Status** on the Job tree. The Network Status window appears showing the state of each panel.

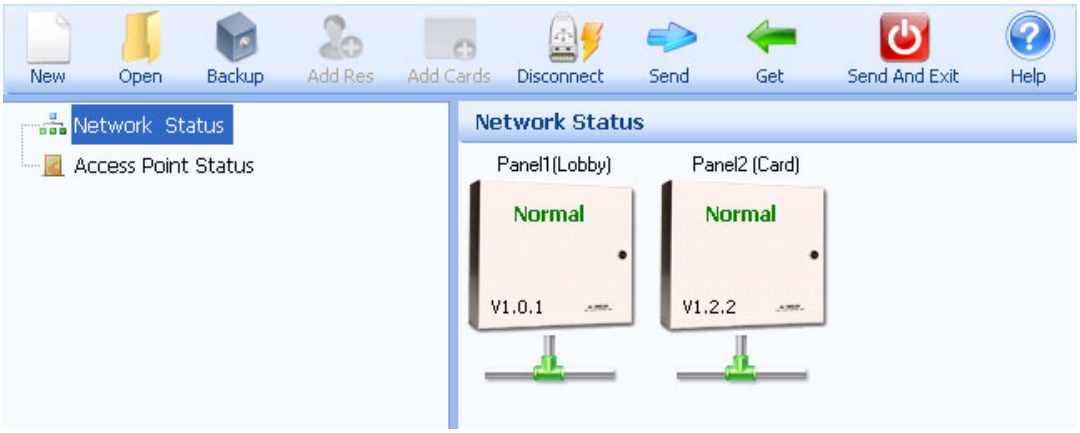


Figure 227. Network Status

4. Click on the panel, and then select **Panel information**.

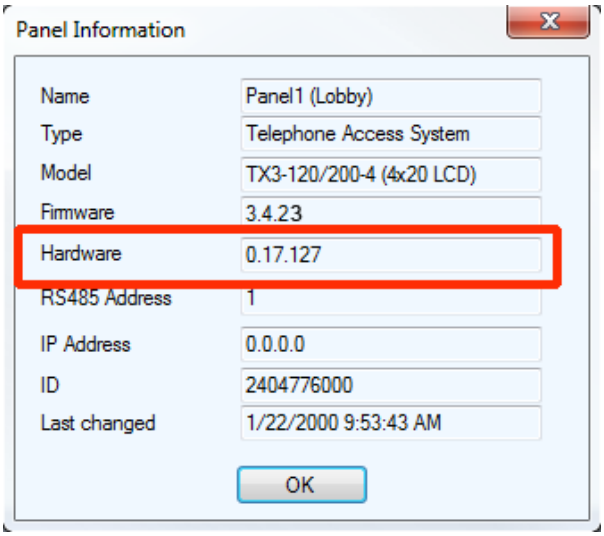


Figure 228. Panel Information

The Hardware line provides information about the telephone access controller board.

- **0.17.127:** MD-1245
- **0.0.127:** MD-1086

12.1.8 Access Point Status

Access Point Status displays the current status of all the card reader access points on the network and shows their status as 'normal', 'trouble', 'alarm', or 'offline', as well as their lock/unlock and high security on/off status.

Access Point Status also lets you grant access, and turn on or off the unlock and high security functions.

If you have assigned an input to General door status (section 7.4), then the door appears here, and its status (open or closed) is shown.

View the status of access points

1. Start the TX3 Configurator and then connect to your job.

2. Click **Monitoring** in the Mode Selection section of the TX3 Configurator window.

3. Click **Access Point Status** on the Job tree. The Access Point Status window appears showing the state of each access point.

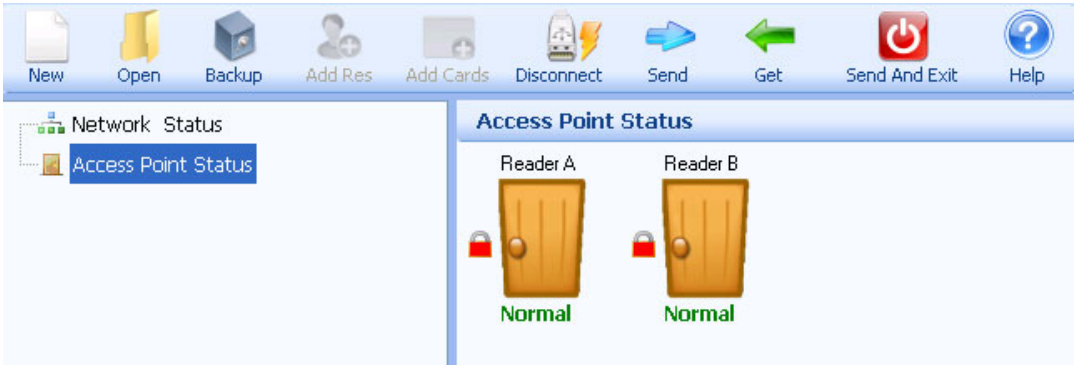


Figure 229. Access Point Status

4. Click on an access point. The following selections appear:

   Grant access. Use Grant access to admit access point entry. Typically this unlocks the door.

   Unlock mode ON. Turns on the unlock mode until the next scheduled event or the panel is reset.

   Unlock mode OFF. Turns off the unlock mode until the next scheduled event or the panel is reset.

   High security ON. Turns on the high security mode until the next scheduled event or the panel is reset.

   High security OFF. Turns off the high security mode until the next scheduled event or the panel is reset.

5. If you want to send a command to the access point (for example, **Unlock mode ON**), click on the command.

12.1.9 Send Elevator Commands

If the job has a TX3-ER-8-B Elevator Restriction Unit (ERU 2.0), then you can activate elevator relays and you can see the activation status of all relays.

Activate an elevator relay

1. Start the TX3 Configurator and then connect to your job.

2. Click **Monitoring** in the Mode Selection section of the TX3 Configurator window.

3. Click **Elevators** in the Monitoring job tree.

The status window shows all TX3-ER-8-B Elevator Restriction Units (ERU 2.0) in the job. They are labelled **Elev2**.

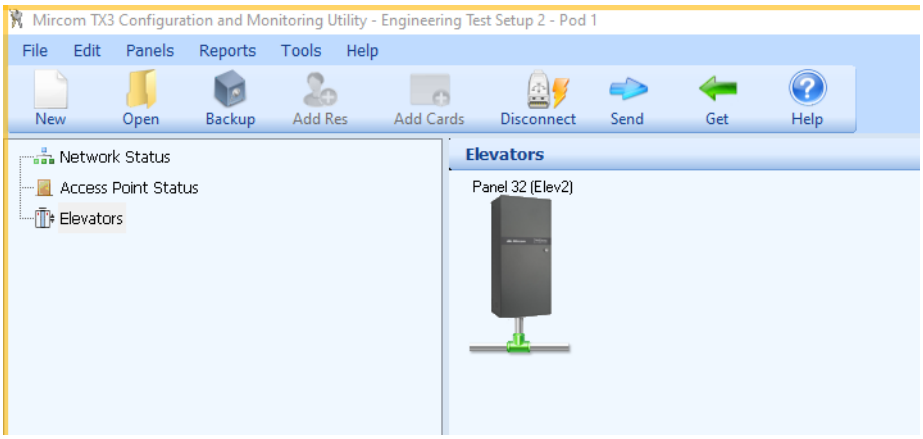


Figure 230. Elevator Status

4. Click the icon for a TX3-ER-8-B Elevator Restriction Unit (ERU 2.0).

   The Send Elevator Commands window appears.

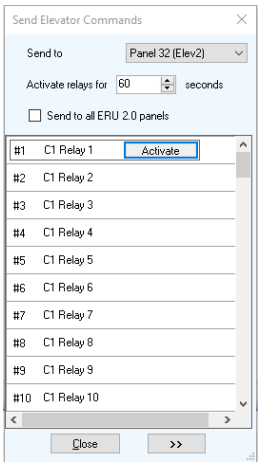


Figure 231. Send Elevator Commands Window

Note: You can also open the **Send Elevator Commands** window by right-clicking the ERU 2.0 panel in the **Network Status** window. See section 12.1.1.

5. Click the button >> in the bottom left of the window to expand the window.

The window expands to show all the elevator relays.

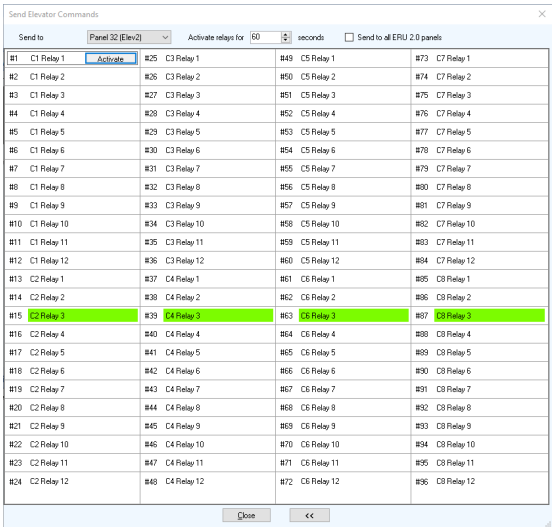


Figure 232. Expanded Send Elevator Commands Window

Note: Active relays are highlighted in green.

6. Click the menu beside **Send to** and select which ERU2.0 panel to send the activation command to.

7. Select a time in the **Activate relays for** menu. This is the period of time during which the elevator relays will remain active.

8. Select **Send to all ERU2.0 panels** if you want to send the activation command to all ERU2.0 panels instead of just the panel selected in the **Send to** menu. If you select this option, then the activation command is sent to the same relay on all the ERU 2.0 panels.

9. Select the relay that you want to activate, then click the **Activate** button.

   The active relay is highlighted in green.

12.2 Alerts

The system can send an email message when a specific event happens.

Set up email alerts

1. Click **Tools** > **Alert Setup**.

The Alert Setup Form appears.

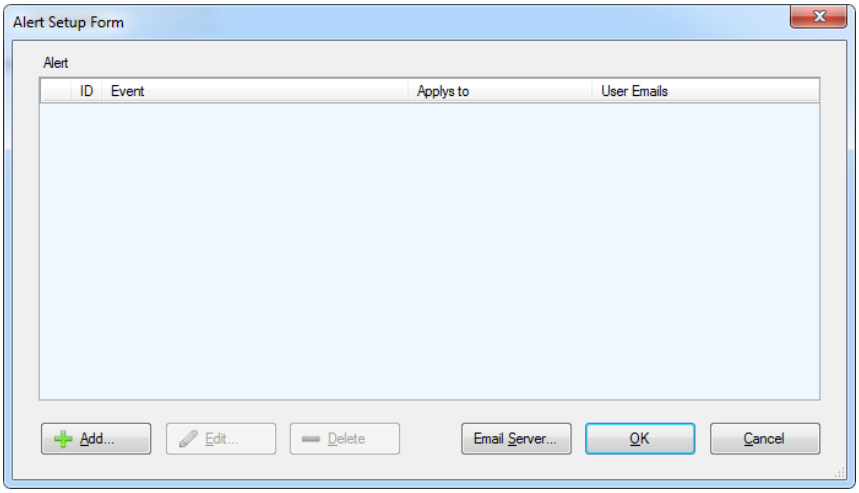


Figure 233. Alert Setup Form

2. Click **Email Server**.

The Email Messages window appears.

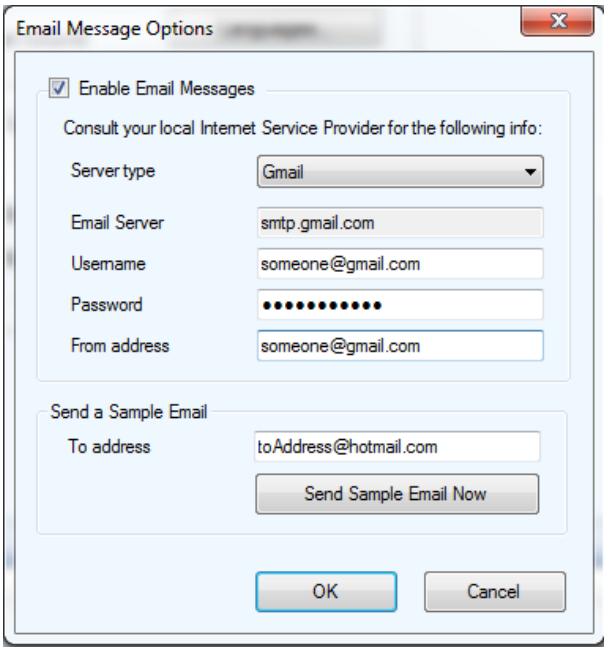


Figure 234. Touch Screen Email Messages

Note: These email options do not affect the email message options in the Touch Screen Options. See section 4.7.3.

3. Provide the following information:

   Enable Email Messages. Select this check box to enable email messaging.

   Server type. Select the server type: custom SMTP, Live (Hotmail), or Gmail.

   Email server. Enter the email service provider IP address.

   Username. Enter the user name. Some email services require the full email address as the username (for example, **someone@gmail.com**).

   Password. Enter the password.

   From address. Provide the email address of the sender. This email address tells the receiver and the ISP provider who is sending the email.

Note: The **From address** is required.

To address. Enter the email address that you want to send a test message to.

4. To verify that all of the email service parameters are correct, send a sample email message by pressing the **Send Sample Email Now** button.

5. Click **OK**.

Set up email alerts

1. In the Alert Setup form, click **Add**.

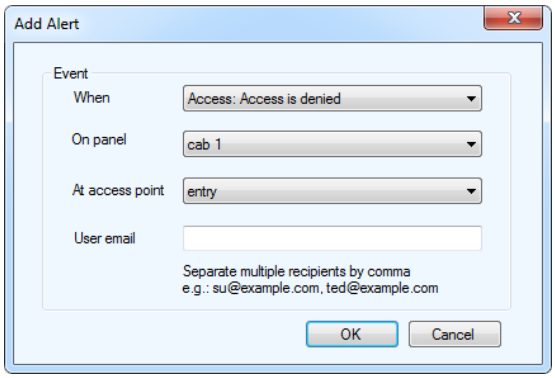


Figure 235. Add Alert

2. Provide the following information:

When. Choose an event that will activate an alert. See the list of events in section 12.2.1.

On panel. On panel applies the action either to one of the panels on your system or to a group of panels on your system. If, for example, you have two panels (Panel1 and Panel2) in your TX3 system, you could select from the following options:

Panel1 - Apply the correlation to Panel1 only.

Panel2 - Apply the correlation to Panel2 only.

All - Apply the correlation to all Telephone Access, Card Access, and Touch Screen panels on the network.

At access point. If the panel is a Card Access panel, select the access point.

User email. Enter the email address that the alert should be sent to. If you enter more than one email address, separate the addresses with commas.

3. Click **OK**.

12.2.1 Event List

Access: Access is granted. Access is granted to a card.

Access: Access is denied. Access is denied to a card.

Access: Forced entry alarm. A door is forced open.

Access: Unknown card format.

Access: Forced entry alarm restored. The forced entry alarm is restored.

Access: Door held open alarm. A door did not close.

Access: Door held open alarm restored. The door held open alarm is restored.

Access: Door held open warning. A door did not close and the door held open warning is issued.

Access: Door held open warning restored. The door held open warning is restored.

Access: Door not open. Access is granted but the door remains closed.

Access: Request to Exit. A request to exit is made.

Access: Input is active. The general purpose input becomes active.

Access: Input is normal. The general purpose input becomes inactive.

Access: Unlock mode is on. Unlock mode is activated, either by the Auto unlock schedule, or manually, or by a card with the lock/unlock privilege.

Access: Unlock mode is off. Unlock mode is deactivated, either by the Auto unlock schedule, or manually, or by a card with the lock/unlock privilege.

Access: High security is on. High security mode is activated, either by a card with high security privilege, or manually, or by a correlation.

Access: High security is off. High security mode is deactivated, either by a card with high security privilege, or manually, or by a correlation.

Access: Tamper detected. The controller's tamper alarm is on.

Access: Tamper restored. The controller's tamper alarm is off.

Access: Battery OK. Not used.

Access: Battery low. Not used.

Access: Battery flat. Not used.

Access: Lockset offline. Not used.

Access: Lockset online. Not used.

Access: Door is locked. Not used.

Access: Door is unlocked. Not used.

Access: FC not matching. Access denied. When Facility code mode is enabled, access is denied because the facility code is invalid. See section 7.3.

Access: PIN not matching. Access denied. During the PIN required schedule, access is denied because the PIN is invalid. See section 7.3.

Access: PIN timed out. Access denied. During the PIN required schedule, access is denied because no PIN was entered during the PIN Timeout time. See section 7.3.

Access: Card number not found. Access denied. Access is denied because the card number is invalid.

Access: Temp card usage exceeded. Access denied. Access is denied because the card's usage counter has reached zero. See section 9.1.2.

Access: Card not active. Access denied. Access is denied because the card's Status is Inactive. See section 9.1.2.

Access: Card expired. Access denied. Access is denied because the card's Deactivation date has passed. See section 9.1.2.

Access: Schedule not matching. Access denied. The card is valid but the schedule for the card's access level is not active. See section 9.3.

Access: High security right not set. Access denied. The access point is set to high security but the card does not have high security privilege. See section 7.3.

Access: Anti passback. Access denied. Access is denied because the card is used for a second time while the anti-passback timer is running. See section 7.3.

Access: Anti PB list full. Access denied. The first time a card is used, it is added to the anti-passback list. When the anti-passback timer for that card expires, the card is removed from the list. On a card access system, the list holds 100 cards. While the list is full, access is denied.

Access: Hub is online. Not used.

Access: Hub is offline. Not used.

Access: All HISEC mode on. A correlation turns on high security on all the access points of one panel.

Access: All HISEC mode off. A correlation turns off high security on all the access points of one panel.

Access: Door is jammed.

Access: Card discover mode.

Access: Elevator relay activated by PC operator.

Lobby: Input is active. The general purpose input becomes active.

Lobby: Input is normal. The general purpose input becomes inactive.

Lobby: Call Started. The lobby unit calls a resident.

Lobby: Call finished. A call to a resident ends.

Lobby: Call is connected. A call is established.

Lobby: Access is granted (lobby). The resident grants access using a telephone keypad.

Lobby: Access denied (lobby). The resident denies access.

Lobby: Unlock mode is turned on (lobby). The Auto unlock Main door schedule becomes active. See section 5.1.9.

Lobby: Unlock mode is turned off (lobby). The Auto unlock Main door schedule becomes inactive. See section 5.1.9.

Lobby: Dial code not found. The dial code is invalid.

Lobby: Call and access schedule inactive. A visitor tries to call a resident but access is denied because the Allow calls schedule is inactive. See section 5.1.2.

Lobby: Line not connected. The phone line is not connected.

Lobby: Line is in use. The phone line is in use.

Lobby: Guard phone connected. A successful call is made to the guard phone.

Lobby: Calling guard phone. A resident or visitor is calling the guard phone.

Lobby: Disconnecting call. The resident or visitor is disconnecting the call.

Lobby: Keyless code schedule is inactive. The resident tries to enter a keyless code but access is denied because the Allow keyless entry schedule is not active. See section 5.1.2.

Lobby: Keyless code not found. The resident's keyless entry code is invalid. See section 8.

Lobby: Main and Aux door are open. The resident opens both the main and auxiliary door with keyless entry. See section 8.

Lobby: main door is open. The resident opens the main door from the keypad. See section 5.1.6.

Lobby: Auxiliary door is open. The resident opens the auxiliary door from the keypad. See section 5.1.6.

Lobby: Called party is busy. The phone line is busy.

Lobby: Call in process. The lobby unit has placed a call and the phone is ringing.

Lobby: Guard phone not connected or disabled. A resident or visitor tries to call the guard phone, but the guard phone is not connected or not enabled.

Lobby: No dial tone. The phone line is connected but there is no dial tone.

Lobby: Guard phone calling. The guard phone is calling the panel or a resident.

Lobby: Postal lock usage exceeded daily limit. The daily postal lock usage is exceeded. See section 5.1.9.

Lobby: Unlock schedule inactive. The resident tries to grant access by pressing the DTMF digit, but access is denied because the Allow unlock schedule is inactive. See section 5.1.2.

Lobby: Postal lock usage not allowed at this time.

Config: Panel offline. The Configurator is disconnected from a panel.

Config: Panel connected. The Configurator is connected to a panel.

13 Reports

The **Reports** menu in the TX3 Configurator lets you generate reports on events, residents and access cards, and lets you print a paper directory.

This chapter explains

- Event Logs
- Resident Report
- Access Cards
- Paper Directory
- Save and Print the Report
- Other Options in the Report Window

13.1 Event Logs

You can generate a report of some or all of the event logs.

Generate a report of the event logs

1. Click the **Reports** menu, then click **Event Log**.

   The Event Log Report Options window appears.

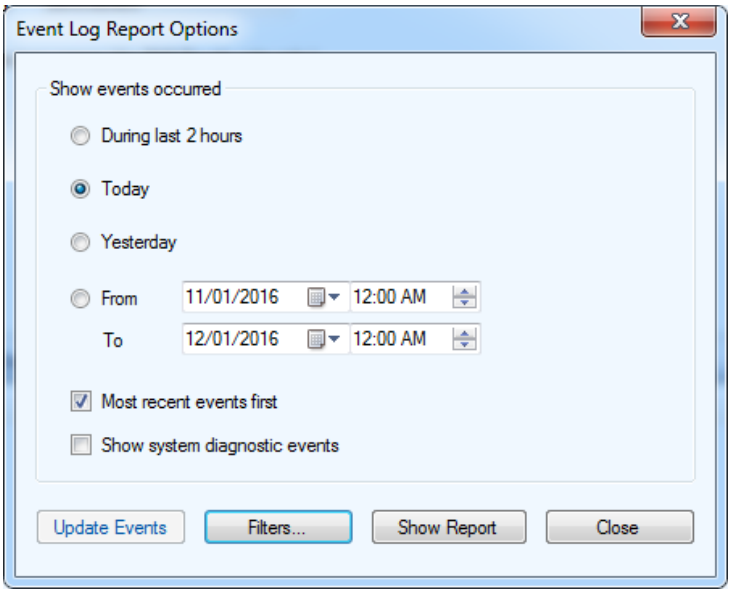


Figure 236. Event Log Report Options

2. Provide information for the following:

   Show events occurred. Select **During last 2 hours**, **Today** or **Yesterday**, or select a range of dates.

   Most recent events first. Select this option to display the most recent events at the top of the report.

   Show system diagnostic events. Technicians can select this option to get diagnostic information for troubleshooting.

3. Click **Update Events** to retrieve all the events from all panels on the network. This could take a few minutes.

Note: The TX3 Configurator does not receive and store events while it is not connected to the TX3 network. When the Configurator reconnects to the network, it does **not** automatically receive the

events that occurred while it was not connected. Click **Update Events** to receive all the events that occurred while the Configurator was not connected.

4. Click **Filters**.

   The Additional Event Filters window appears.

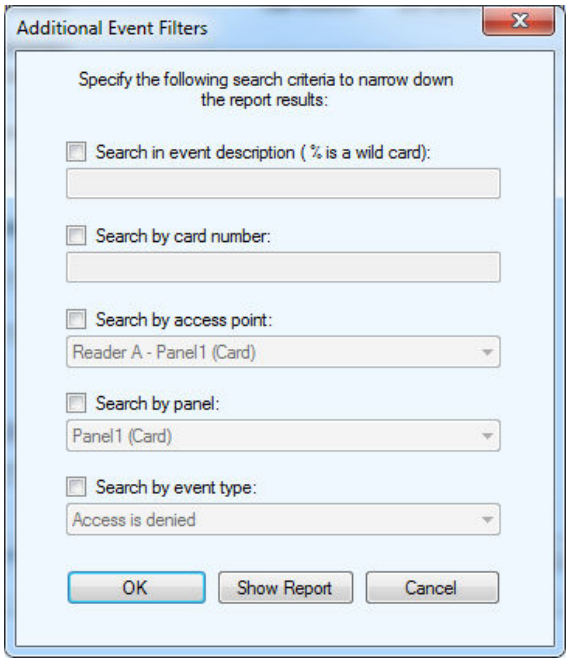


Figure 237. Additional Event Filters

5. Provide the following information if you want to narrow down the report results.

   Search in event description. Type the percent sign (%), then type the text to search for in the event description. The report shows only events that contain this text in the event description.

   For example, to search for events that contain the facility code 1, type **%1**.

   Search by card number. Type a card number to search for. The report shows only events that contain this card number.

   Search by access point. The report shows only events for this access point.

   Search by panel. The report shows only events for this panel.

   Search by event type. The report shows only events for this event type.

6. Click **Show Report**.

13.2 Resident Report

You can generate a report of some or all of the residents.

Generate a report of the residents

1. Click the **Reports** menu, then click **Residents**.

   The Resident Report Options window appears.

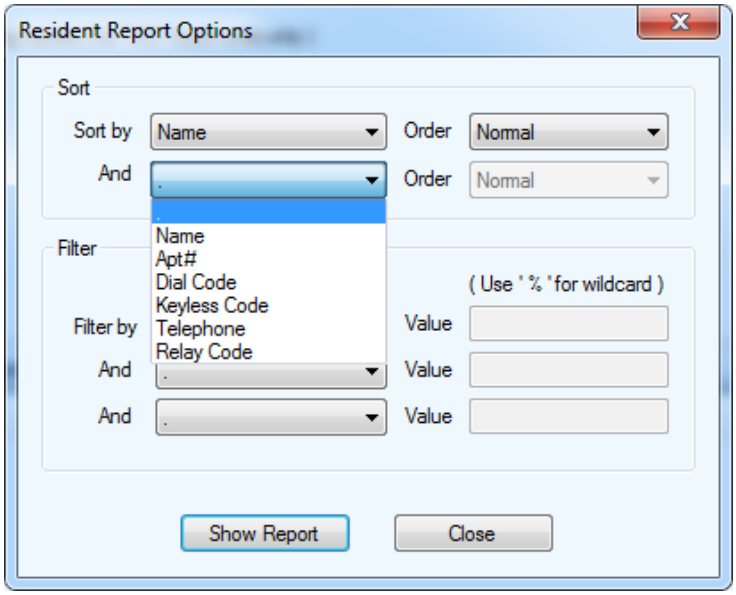


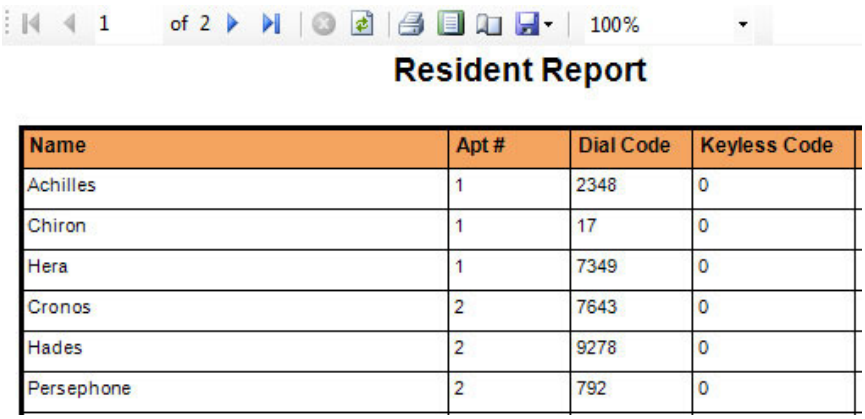
Figure 238. Resident Report Options

2. Provide information for the following:

   Sort. Select up to 2 criteria to sort the report by.

   For example, if you select **Apt#** in the **Sort by** menu and **Name** in the **And** menu, then the report is sorted by apartment number, and for each apartment, the residents are sorted by name (see Figure 239).

   In the **Order** menu, select **Reversed** to sort the residents in the opposite direction.



Name	Apt #	Dial Code	Keyless Code
Achilles	1	2348	0
Chiron	1	17	0
Hera	1	7349	0
Cronos	2	7643	0
Hades	2	9278	0
Persephone	2	792	0

Figure 239. Resident Report sorted by Apt# first and Name second

Filter. Select up to 3 criteria to filter by. The report shows only entries that begin with the criteria that you select.

For example, to show only residents whose names begin with S**,** select **Name** in the **Filter by** menu, then type **S** in the **Value** field.

To search for something within a name or number, use the percent sign (%).

For example, to show residents who have S anywhere in their names and who have 5 anywhere in their dial codes:

a. Select **Name** in the **Filter by** menu, then type **%S** in the **Value** field.

b. Select **Dial Code** in the **And** menu, then type **%5** in the **Value** field.

3. Click **Show Report**.

13.3 Access Cards

You can generate a report of some or all of the access cards.

Generate a report of the access cards

1. Click the **Reports** menu, then click **Access Cards**.

   The Access Card Report Options window appears.

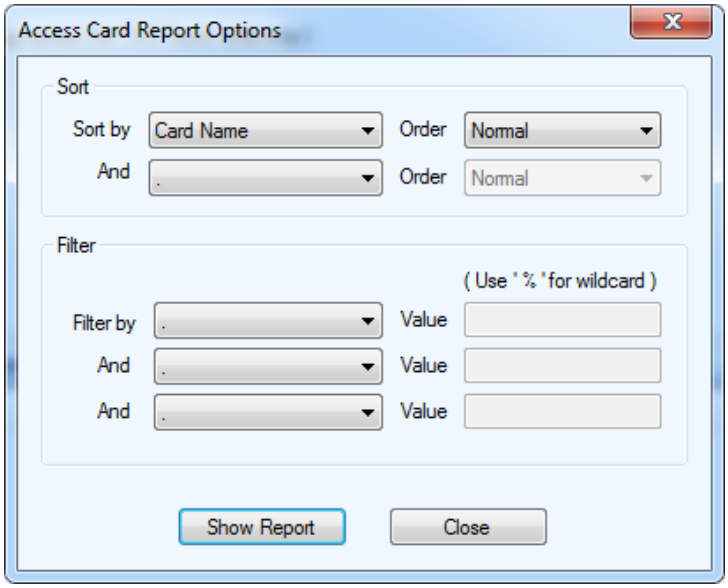


Figure 240. Access Card Report Options

2. Provide information for the following:

   Sort. Select up to 2 criteria to sort the report by.

   For example, if you select **Facility Code** in the **Sort by** menu and **Card Number** in the **And** menu, then the report is sorted by facility code, and for each facility code, the cards are sorted by card number (see Figure 241).

   In the **Order** menu, select **Reversed** to sort the cards in the opposite direction.

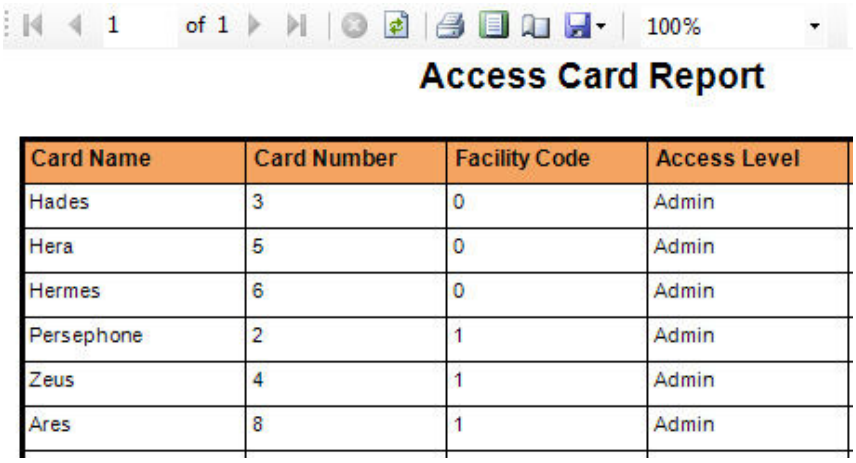


Figure 241. Access Card Report sorted by Facility Code first and Card Number second

Filter. Select up to 3 criteria to filter by. The report shows only entries that begin with the criteria that you select.

For example, to show only the cards whose facility codes begin with 1, select **Facility Code** in the **Filter by** menu, and then type **1** in the **Value** field.

To search for something within a name or number, use the percent sign (%).

For example, to show cards that have 1 anywhere in their facility codes and that have 2 anywhere in their card numbers:

a. Select **Facility Code** in the **Filter by** menu, then type **%1** in the **Value** field.

b. Select **Card Number** in the **And** menu, then type **%2** in the **Value** field.

3. Click **Show Report**.

13.4 Paper Directory

You can a paper directory that you can display on a panel (for instance TX3-120C-A). The paper directory displays two pieces of information: the resident's name and the dial code. It can have 1, 2, or 3 columns per page.

Generate a paper directory

1. Click the **Reports** menu, then click **Paper Directory Report**.

   The Paper Directory Report Options window appears.

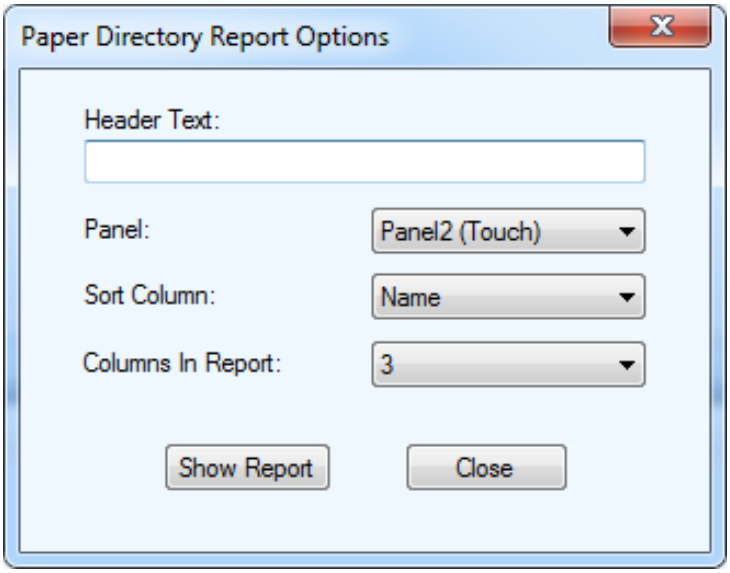


Figure 242. Paper Directory Report Options

2. Provide information for the following:

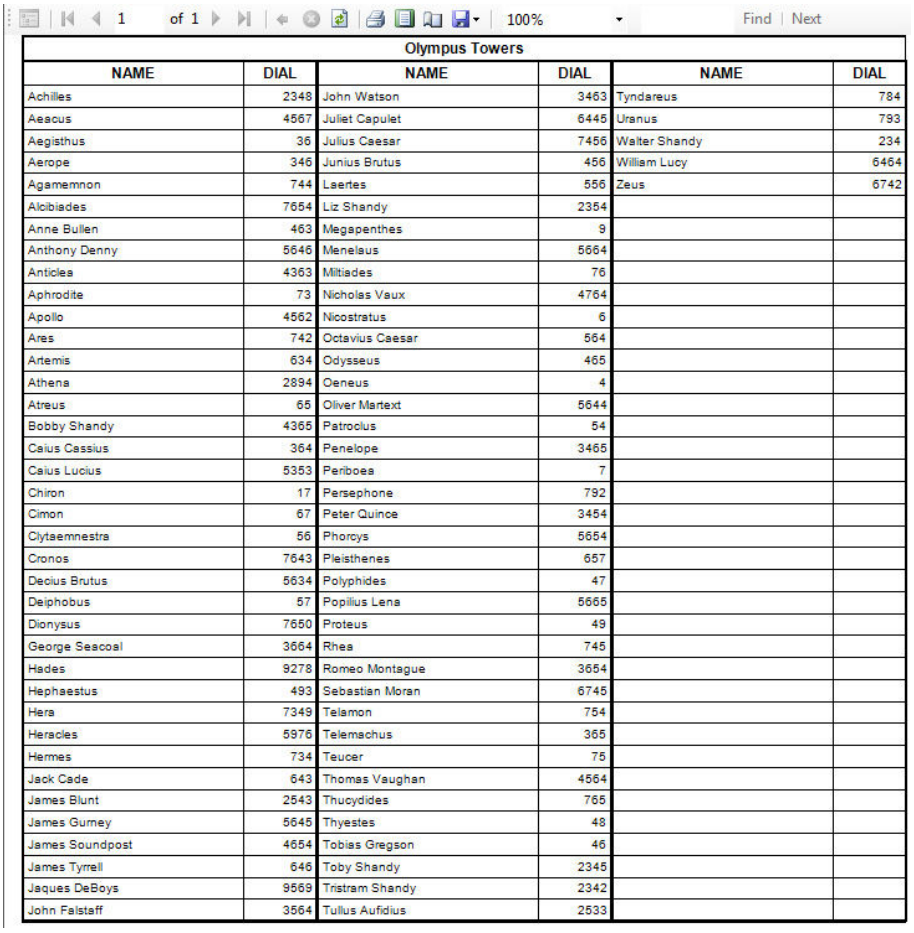
   Header Text. This text will appear at the top of the report.

   Panel. Select the panel that will display this paper directory.

   Sort Column. Select the column, either **Name** or **Dial Code**, to sort the directory by.

   Columns in Report. Select the number of columns. The report can have1, 2, or 3 columns per page.

3. Click **Show Report**.



Olympus Towers

NAME	DIAL	NAME	DIAL	NAME	DIAL
Achilles	2348	John Watson	3463	Tyndareus	784
Aeacus	4567	Juliet Capulet	6445	Uranus	793
Aegisthus	36	Julius Caesar	7456	Walter Shandy	234
Aerope	346	Junius Brutus	456	William Lucy	6464
Agamemnon	744	Laertes	556	Zeus	6742
Alcibiades	7654	Liz Shandy	2354		
Anne Bullen	463	Megapenthes	9		
Anthony Denny	5646	Menelaus	5664		
Anticlea	4363	Miltiades	76		
Aphrodite	73	Nicholas Vaux	4764		
Apollo	4562	Nicostratus	6		
Ares	742	Octavius Caesar	564		
Artemis	634	Odysseus	465		
Athena	2894	Oeneus	4		
Atreus	65	Oliver Martext	5644		
Bobby Shandy	4365	Patroclus	54		
Caius Cassius	364	Penelope	3465		
Caius Lucius	5353	Periboea	7		
Chiron	17	Persephone	792		
Cimon	67	Peter Quince	3454		
Clytaemnestra	56	Phorcys	5654		
Cronos	7643	Pleisthenes	657		
Decius Brutus	5634	Polyphides	47		
Deiphobus	57	Popilius Lena	5665		
Dionysus	7650	Proteus	49		
George Seacoal	3664	Rhea	745		
Hades	9278	Romeo Montague	3654		
Hephaestus	493	Sebastian Moran	6745		
Hera	7349	Telamon	754		
Heracles	5976	Telemachus	365		
Hermes	734	Teucer	75		
Jack Cade	643	Thomas Vaughan	4564		
James Blunt	2543	Thucydides	765		
James Gurney	5645	Thyestes	48		
James Soundpost	4654	Tobias Gregson	46		
James Tyrrell	646	Toby Shandy	2345		
Jaques DeBoys	9569	Tristram Shandy	2342		
John Falstaff	3564	Tullus Aufidius	2533		

Figure 243. Paper Directory in a 3-column layout

13.5 Save and Print the Report

Save the report

- Click the disk menu and select **Excel** or **Acrobat PDF file**.

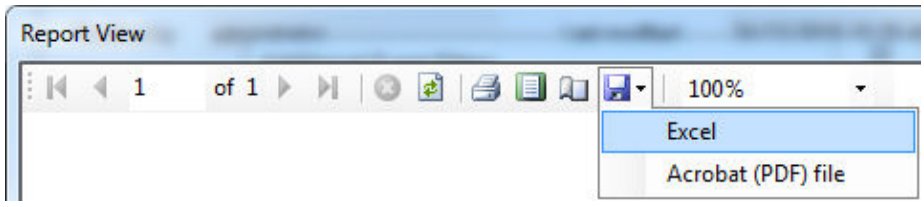


Figure 244. Report format

Print the report

- Click the printer icon.

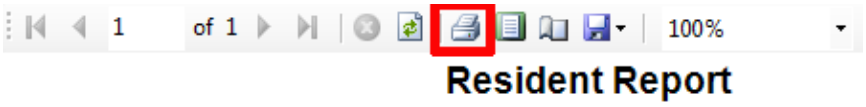


Figure 245. Print the report

13.6 Other Options in the Report Window

Go to the first page.

Go the previous page.

Go to the next page.

Go to the last page.

Stop generating the report.

Refresh the report, if more events have occurred since the report window was opened.

Displays the report in print layout.

Displays the page setup window.

14 Remote Access

This chapter provides information on how to access one or more Main Nodes over the Internet using port forwarding.

Note: You must use the TX3 Configurator version 2.1.8 or higher for remote access of Main Nodes using port forwarding.

This chapter explains

- Overview
- Get the IP Addresses, RS-485 Addresses, and MAC addresses of the Main Nodes
- Access one Main Node over the Internet
- Access multiple Main Nodes over the Internet with Multiple Global IP Addresses
- Access one or more Main Nodes over the Internet with one Global IP Address

14.1 Overview

A TX3 network is connected to the Internet by a router. In order to access Main Nodes on the TX3 network over the Internet, the router must be configured to map IP addresses and ports correctly.

Main Node: A Main Node is a TX3 device that is connected to an IP network.

Router: A router is a device that communicates between a local area network (like a TX3 network) and the rest of the Internet.

Local PC: Use a PC or laptop connected to the same network as the Main Node in order to configure the router and find the IP addresses of the Main Node. You can disconnect the local PC after the configuration is complete.

Remote PC: Use the remote PC to access the Main Node over the Internet.

IP address: An IP address is a series of four numbers separated by periods (for instance, 10.10.8.2) which identifies a device on an IP network. IP addresses can be local (used within the local network) or global (assigned by the Internet service provider and used on the Internet). Each Main Node on a TX3 network has a local IP address which is used within the TX3 network. The router maps the local IP addresses onto global IP addresses so that the Main Nodes can be accessed over the Internet.

Port: A port is a number associated with an IP address and used by a specific application. Ports are like telephone extensions. Just as one telephone number can have many extensions, one IP address can have many ports, where each port is used by a different application. For example, the TX3 Configurator uses port 8080 to communicate with Touch Screen Main Nodes, and port 14000 to communicate with non-Touch Screen Main Nodes.

14.2 Get the IP Addresses, RS-485 Addresses, and MAC addresses of the Main Nodes

To configure remote access you must first get the IP addresses, RS-485 addresses, and MAC addresses of the Main Nodes.

1. Connect a PC or laptop (the local PC) and the TX3 Main Nodes to the same network.

2. On the local PC, open the TX3 Configurator.

3. Click **Tools**, then **IP Change Tool**.

   The IP Change Tool window opens. This window shows all the Main Nodes on the TCP/IP network and their IP addresses.

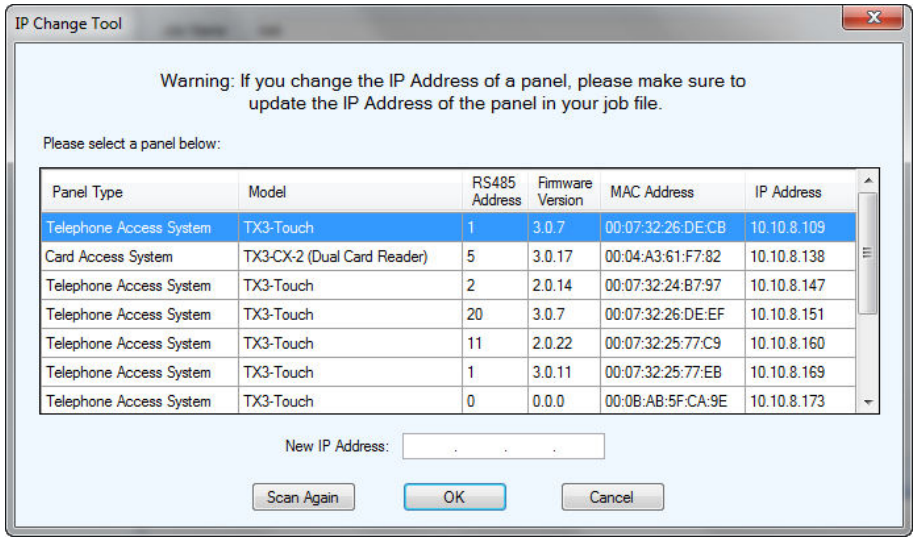


Figure 246. IP Change Tool

4. Make a note of the IP address, RS-485 address, and MAC address of the Main Nodes that you want to configure. You will need this information in the next steps.

Note: Do not change any information in the IP Change Tool window.

5. Follow the instructions below depending on the kind of router you have and the number of Main Nodes you have:

   - You want to access one Main Node over the Internet and you have a router that can forward one global IP address to one local IP address on the same port. Go to section 14.3.

- You want to access multiple Main Nodes over the Internet using multiple global IP addresses and you have a router that supports multiple external interfaces. Go to section 14.4.
- You want to access one or more Main Nodes over the Internet using one global IP address and you have a router that can forward multiple external ports to internal ports. Go to section 14.5.

14.3 Access one Main Node over the Internet

Follow these instructions if you have a router that can forward one global IP address to one local IP address on the same port.

Figure 247 shows the configuration for setting up remote access of one Main Node.

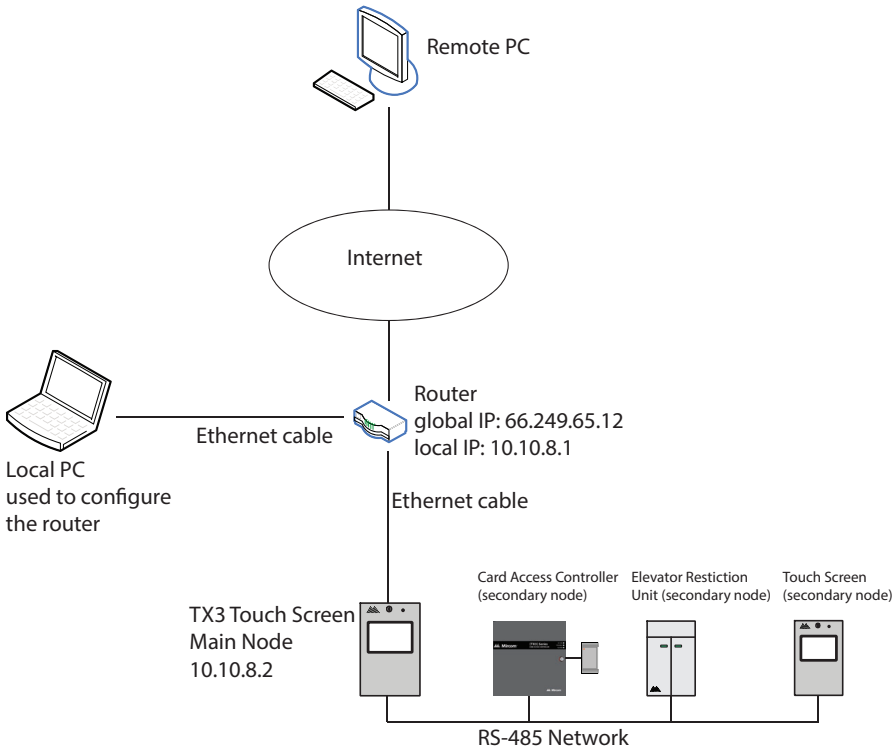


Figure 247. Accessing a Main Node over the Internet

Note: There can only be **one** Main Node on an RS-485 subnetwork. That is, you cannot connect one RS-485 subnetwork to another RS-485 subnetwork. However, if you want to connect to a Touch Screen panel remotely over the Internet (for instance, to enable the advertising module), the Touch Screen panel must be set as a Main Node even if there is no Secondary panel connected to it.

To access the Main Node remotely over the Internet, you must configure the router to assign or map the Main Node IP address to the global IP address (the IP address assigned by the Internet service provider).

A request for this global IP address...	Is directed to this Main Node...
66.249.65.12	10.10.8.2

You must:

1. Configure the router.
2. Get the global IP address of the router.
3. Connect to the Main Node from a remote PC.

The first two steps are performed from the local PC, and the third step is performed from the remote PC.

14.3.1 Configure the Router

The procedure for configuring the router depends on the kind of router and how the network is configured. Use the following information to configure the router.

- The panel's IP address and MAC address: The addresses you noted in section 14.2.
- Port: 8080 for Touch Screens and 14000 for non-Touch Screens.
- Protocol or Service Type: TCP.

14.3.2 Get the Global IP Address of the Router

1. If the router has a static global IP address, go to the following site on the local PC to find the global IP address:

   http://www.myglobalip.com

   If you use a DDNS service, use the domain name associated with the IP.
2. Disconnected the local PC from the network. It is no longer needed.

14.3.3 Connect to the Main Node from the Remote PC over the Internet

Note: You must use the TX3 Configurator version 2.1.8 or higher for remote access of Main Nodes using port forwarding.

1. On the remote PC, open the TX3 Configurator.

2. Open a new job.

3. Click **Network** in the job tree, and select **TCP/IP** in the **PC Connection** menu.

4. Right click anywhere on the tree and select **Add Panel**.

   The Add Panel window appears.

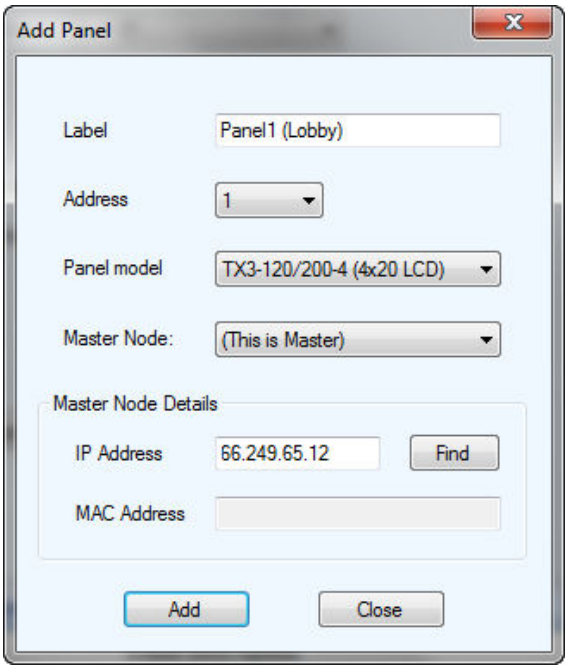


Figure 248. Add Panel

5. Provide the following information:

   Label. Provide a name for the panel.

   Address. Select the RS-485 address of the panel you are connecting to.

   Panel model. Click the drop down list and select the model of panel you are connecting to.

   IP Address. If the router at the installation site has a static global IP address, type the static global IP address.

   If you use a DDNS service, type the domain name associated with the IP.

6. Click **Add**.

7. Click **Connect**.

8. Check for a message that the panel is **Online** in the **Online Events** pane at the bottom of the window.

14.4 Access multiple Main Nodes over the Internet with Multiple Global IP Addresses

Follow these instructions if you have a router that can support multiple external interfaces (multiple global IP addresses).

To access the Main Nodes remotely over the Internet, you must configure the router to assign or map each Main Node IP address to a global IP address.

In this example, the node 10.10.8.2 is assigned to the global IP address 66.249.65.12, and the node 10.10.8.3 is assigned to the global IP address 66.249.65.13.

A request for this global IP address...	Is directed to this Main Node...
66.249.65.12	10.10.8.2 (Touch Screen Main Node)
66.249.65.13	10.10.8.3 (Card Access Main Node)

You must:

1. Configure the router so that each panel is assigned to a different global IP address.

2. Connect to the Main Nodes from a remote PC.

Note: There can only be **one** Main Node on an RS-485 subnetwork. That is, you cannot connect one RS-485 subnetwork to another RS-485 subnetwork. However, if you want to connect to a Touch Screen panel remotely over the Internet (for instance, to enable the advertising module), the Touch Screen panel must be set as an Main Node even if there is no Secondary panel connected to it.

14.4.1 Configure the Router

The procedure for configuring the router depends on the kind of router and how the network is configured.

Use the following information to configure the router.

- **The panels' IP addresses and MAC addresses:** The addresses you noted in section 14.2.
- **Port:** 8080 for Touch Screens and 14000 for non-Touch Screens.
- **Protocol or Service Type:** TCP.

In this example, there are two static global IP addresses that are assigned to two Main Nodes.

A request for this global IP address...	Is directed to this Main Node...
66.249.65.12	10.10.8.2 (Touch Screen Main Node)
66.249.65.13	10.10.8.3 (Card Access Main Node)

For global IP address 66.149.64.12:

- **Local IP Address:** 10.10.8.2.
- **Internal Port:** 8080 because the panel is a Touch Screen.
- **External Port:** The same as the internal port.
- **Protocol or Service Type:** TCP.

For global IP address 66.149.64.13:

- **Local IP Address:** 10.10.8.3.
- **Internal Port:** 14000 because the panel is not a Touch Screen.
- **External Port:** The same as the internal port.
- **Protocol or Service Type:** TCP.

14.4.2 Connect to the Main Node from the Remote PC over the Internet

Note: You must use the TX3 Configurator version 2.1.8 or higher for remote access of Main Nodes using port forwarding.

1. On the remote PC, open the TX3 Configurator.
2. Open a new job.
3. Click **Network** in the job tree, and select **TCP/IP** in the **PC Connection** menu.
4. Right click anywhere on the tree and select **Add Panel**.

The Add Panel window appears.

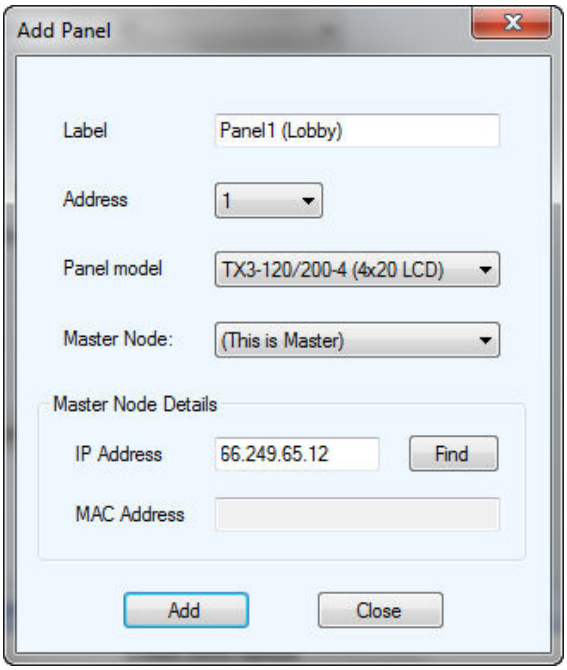


Figure 249. Add Panel

5. Provide the following information:

   Label. Provide a name for the panel.

   Address. Select the RS-485 address of the panel you are connecting to.

   Panel model. Click the drop down list and select the model of panel you are connecting to.

   IP Address. Type the global IP address assigned to the panel you are connecting to.

6. Click **Add**.

7. Repeat steps 4 and 5 for each panel that you want to connect to. Make sure that you specify the correct RS-485 address and model for each panel. You made a note of the RS-485 addresses in section 14.2.

8. Click **Connect**.

9. Check for a message that the panel is **Online** in the **Online Events** pane at the bottom of the window.

14.5 Access one or more Main Nodes over the Internet with one Global IP Address

Follow these instructions if you have a router that can forward multiple external ports to internal ports.

Figure 250 shows an example network.

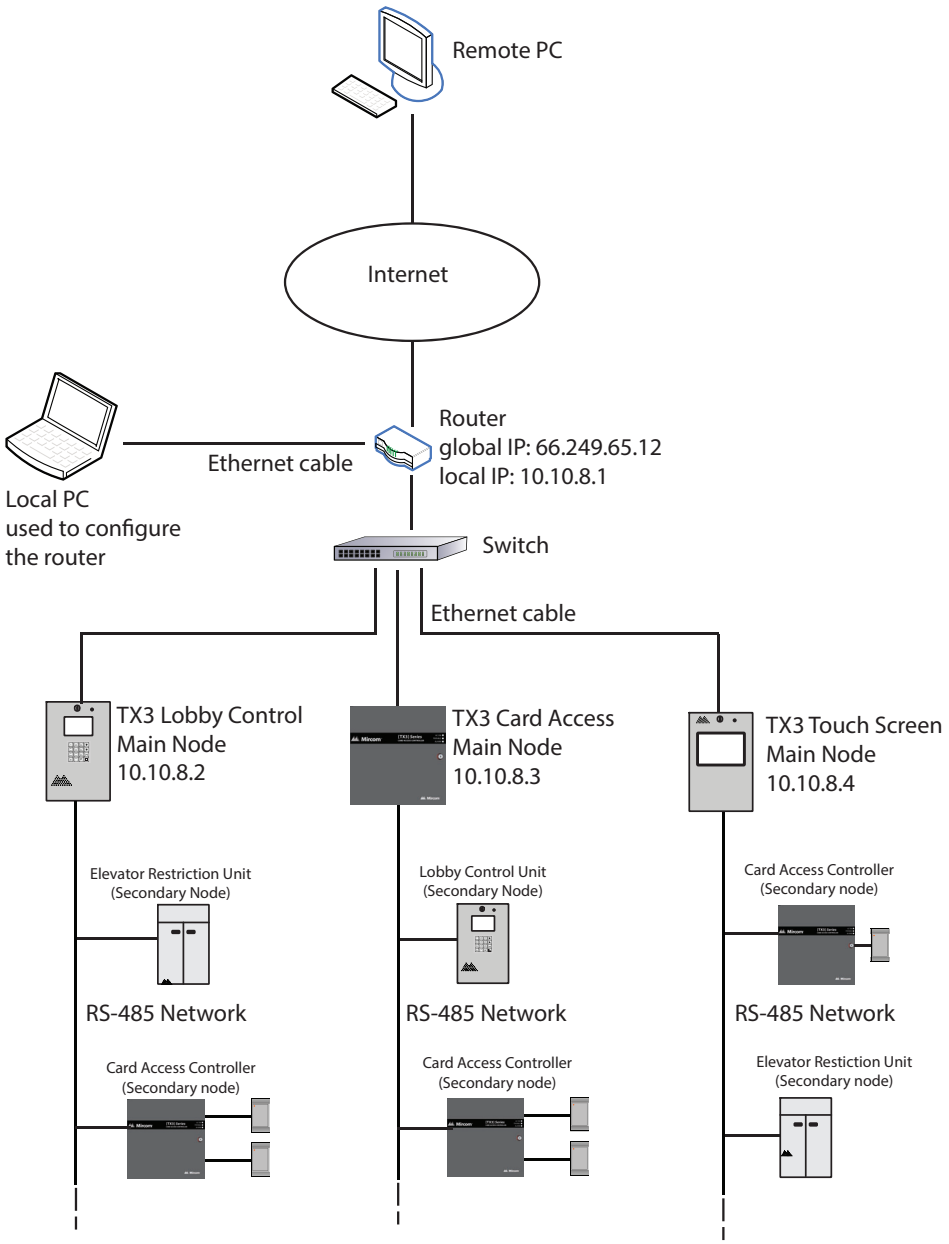


Figure 250. Accessing multiple Main Nodes over the Internet using port forwarding

To access the Main Nodes remotely over the Internet, you must configure the router to assign or map each Main Node IP address and port to a global IP address (the IP address assigned by the service provider) and port.

The mapping of the nodes in Figure 250 is shown below. Node 10.10.8.2 is assigned to external port 15000, the node 10.10.8.3 is assigned to external port 15001, and the node 10.10.8.4 is assigned to external port 15002.

The internal port is 8080 for Touch Screens and 14000 for non-Touch Screens. In this example, 10.10.8.4 is a Touch Screen so it has an internal port of 8080. The other two nodes are not Touch Screens, so they have internal ports of 14000.

A remote PC accesses a Main Node by sending a request to the router's global IP address plus the port assigned to the Main Node.

A request for this global IP address...	Is directed to this Main Node...
66.249.65.12:15000	10.10.8.2:14000 (Lobby Control Main Node)
66.249.65.12:15001	10.10.8.3:14000 (Card Access Main Node)
66.249.65.12:15002	10.10.8.4:8080 (Touch Screen Main Node)

You must:

1. Configure the router so that each panel is assigned to a different port.
2. Get the global IP address of the router.
3. Connect to the Main Nodes from a remote PC.

The first two steps are performed from the local PC, and the third step is performed from the remote PC.

14.5.1 Configure the Router

The procedure for configuring the router depends on the kind of router and how the network is configured. You need the following information to configure the router.

- The router's local IP address. Use the local IP address to access the router and configure it.
- The panels' IP addresses and MAC addresses: The addresses you noted in section 14.2.
- Internal Port: 8080 for Touch Screens and 14000 for non-Touch Screens.
- External Ports: Any unused ports. Assign a different external port to each panel.
- Protocol or Service Type: TCP.

14.5.2 Configure a Linksys Router

The following example shows how to configure a Linksys router.

Use the Command Prompt to get the router's local IP address

1. On the local PC, click **Start**, then click **All Programs**, then **Accessories**, then **Command Prompt**.

2. In the Command Prompt window, type **ipconfig** and then press Enter.

   The Default Gateway is the router's local IP address.

Configure the Linksys router

1. On the local PC, type the router's local IP address in a web browser.

   The router's configuration window appears.

2. Click **Applications & Gaming** and then click **Single Port Forwarding**.

3. Provide the following information:

   External Port: Any unused port. Assign a different external port to each Main Node. Make a note of the ports. You will need this information in the next steps.

   Internal Port: 8080 for Touch Screens and 14000 for non-Touch Screens.

   Protocol: TCP.

   To IP Address: The panel's IP addresses, which you noted in section 14.2.

   Enabled: Select this checkbox.

   In Figure 251, there are three Main Nodes, and they are assigned to the ports 15000, 15001, and 15002.

External Port	Internal Port	Protocol	To IP Address	Enabled
---	---	---	192 . 168 . 0. 0	☐
---	---	---	192 . 168 . 0. 0	☐
---	---	---	192 . 168 . 0. 0	☐
---	---	---	192 . 168 . 0. 0	☐
---	---	---	192 . 168 . 0. 0	☐
15000	14000	TCP	192 . 168 . 0. 128	☑
15001	14000	TCP	192 . 168 . 0. 132	☑
15002	14000	TCP	192 . 168 . 0. 133	☑

Figure 251. Configuring a Linksys router for three Main Nodes

14.5.3 Get the Global IP Address of the Router

1. If the router has a static global IP address, go to the following site on the local PC to find the global IP address:

   http://www.myglobalip.com

   If the router has a dynamic global IP address, use the domain name associated with the IP.

2. Disconnected the local PC from the network. It is no longer needed.

14.5.4 Connect to the Main Node from the Remote PC over the Internet

Note: You must use the TX3 Configurator version 2.1.8 or higher for remote access of Main Nodes using port forwarding.

1. On the remote PC, open the TX3 Configurator.
2. Open a new job.
3. Click **Network** in the job tree, and select **TCP/IP** in the **PC Connection** menu.
4. Right click anywhere on the tree and select **Add Panel**.

The Add Panel window appears.

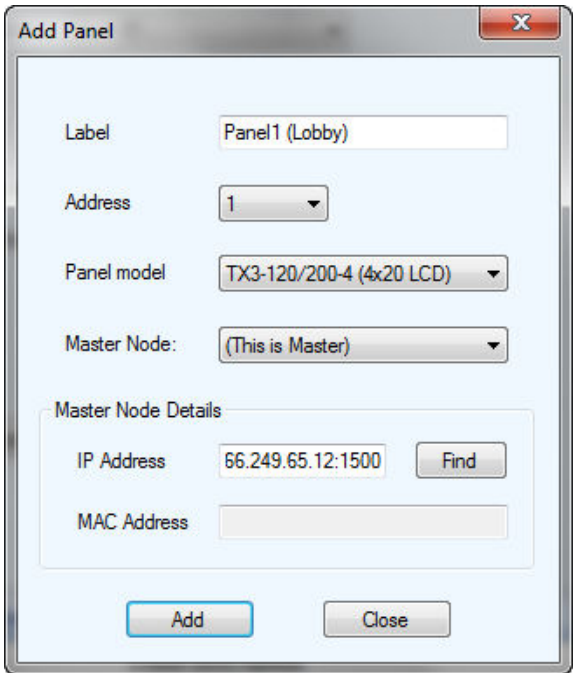


Figure 252. Add Panel

5. Provide the following information:

   Label. Provide a name for the panel.

   Address. Select the RS-485 address of the panel you are connecting to.

   Panel model. Click the drop down list and select the model of panel you are connecting to.

   IP Address. If the router at the installation site has a static global IP address, type the static global IP address and the external port assigned to the panel you are connecting to, separated by a colon. For example, if the router's global IP address is 66.249.65.12 and the panel's external port is 15000, type:

   66.249.65.12:15000

   If you have a DDNS service, type the domain name associated with the IP and the external port assigned to the panel you are connecting to, separated by a colon. For example, if domain name is anyip.com and the panel's external port is 15000, type:

   anyip.com:15000

6. Click **Add**.

7. Repeat steps 4 and 5 for each panel that you want to connect to. Make sure that you specify the correct RS-485 address, model, and external port for each panel. You made a note of the RS-485 addresses in section 14.2. You assigned the external ports to the panels in section 14.5.1.

8. Click **Connect**.

9. Check for a message that the panel is **Online** in the **Online Events** pane at the bottom of the window.

15 Configurable Touch Screen User Interface Elements

The following tables describe the user interface elements as shown in Figures 69, 73 and 74.

Table 3: Call Button

Element	Description
Call button border color	Call button border color
Call button color	Call button color
Call button font	Font used for call button
Call button font color	Font color used for call button
Call button shade	Call button shade

Table 4: Call Reception

Element	Description
Reception button border color	Call reception button border color
Reception button color	Call reception button color
Reception button font color	Font color used for call reception button
Reception button font	Font used for call reception button
Reception button shade	Call reception button shade

Table 5: General

Element	Description
Event screen back color	Background color of the event screen that appears when calling a resident
Event screen button color	Color of the button on the event screen that appears when calling a resident

Table 5: General (Continued)

Element	Description
Event screen font color	Color of the font that is used in the event screen that appears when calling a resident
Event screen font	Font that is used in the event screen that appears when calling a resident
Invalid name/dial code back color	Background color of the box that appears when an invalid resident name or dial code is entered
Invalid name/dial code font color	Color of the font used for the box that appears when an invalid resident name or dial code is entered
Invalid name/dial code font	Font used for the box that appears when an invalid resident name or dial code is entered
Keyboard back color	Background color of the keyboard
Main screen back color	Background color of the main screen

Table 6: Help Button

Element	Description
Help button border color	Help / Information button border color
Help button color	Help / Information button color
Help button font color	Font color used for help / information button
Help button font	Font used for help / information button
Help button shade	Help / Information button shade

Table 7: Keyboard Buttons

Element	Description
Letter button border color	Border color of all keyboard letter (alphabetic) buttons
Letter button color	Color of all keyboard letter (alphabetic) buttons
Letter button font	Font used for all keyboard letter (alphabetic) buttons
Letter button shade	Button shade of all keyboard letter (alphabetic) buttons
Num button border color	Border color of all keyboard numeric buttons
Num button color	Color of all keyboard numeric buttons
Num button font color	Font color used for all keyboard numeric buttons
Num button font	Font used for all keyboard numeric buttons
Num button shade	Button shade of all keyboard numeric buttons
Letter button font color	Font color used for all keyboard letter (alphabetic) buttons

Table 8: Leave Message Button

Element	Description
Msg. button border color	Leave message button border color
Msg. button color	Leave message button color
Msg. button font color	Font color used for leave message button
Msg. button font	Font used for leave message button
Msg. button shade	Leave message button shade

Table 9: Miscellaneous

Element	Description
Clock hour color	Color of the hour hand for the analogue clock
Clock minute color	Color of the minute hand for the analogue clock
Clock sec. color	Color of the second hand for the analogue clock
Clock ticks color	Color of the ticks for the analogue clock
Date font color	Color of the date font
Date font	Font used for the date label
Dial code font color	Font color used for dial code label found in the resident detail box
Dial code font	Font used for dial code label found in the resident detail box
Info box border color	Border color used for the title of the information box
Info box font color	Font color used for the title of the information box
Info box font	Font used for the title of the information box
Res. box border color	Border color used for the resident directory box,
Res. box font color	Font color used for the title of the resident directory box
Res. detail box font	Font used for the title of the resident detail box
Res. detail box border color	Border color used for the resident detail box
Res. detail box color	Font color used for the title of the resident detail box
Search box color	Search text box background color
Search box font color	Search text box font color
Search box font	Search text box font

Table 10: Resident Group

Element	Description
Group button border color	Border color of the group button
Group button color	Color of the group button
Group button font	Font used in the group button
Group button font color	Color of font used in the group button
Group button selected color	Color of button when selected

Table 11: Residents

Element	Description
Alternate highlight color	Color of alternate rows when selected
Back color	Background color (Recommended: Use same as Main Screen background color)
Column size	Size of dial code column (The resident name column is adjusted automatically)
Column title back color	Background color of the column title
Column title font color	Color of the font used in column title
Column title font	Font used for the column title
Column title text align	Text alignment of the column title
Font color	Color of font used for resident names and dial codes
Font	Font used for resident names and dial codes
Grid color	Color of grid lines separating rows and columns
Highlight color	Color of row when selected
Highlight font color	Color of font used for resident name and dial code when selected

Table 11: Residents (Continued)

Element	Description
Row size	Size of rows that hold resident names and dial codes
Text alignment	Text alignment for resident names and dial codes
Alternate highlight color	Color of alternate rows when selected

Table 12: Scroll Up Down Buttons

Element	Description
Scroll border color	Border color for scroll up and down buttons
Scroll button color	Button color for scroll up and down buttons
Scroll button shade	Button shade for scroll up and down buttons

Table 13: Show Flash Button

Element	Description
Flash button border color	Show flash banner button border color
Flash button color	Show flash banner button color
Flash button font color	Font color used for show flash banner button
Flash button font	Font used for show flash banner button
Flash button shade	Show flash banner button shade

16 Warranty and Warning Information

WARNING!

Please read this document **CAREFULLY**, as it contains important warnings, life-safety, and practical information about all products manufactured by the Mircom Group of Companies, including Mircom and Secutron branded products, which shall include without limitation all fire alarm, nurse call, building automation and access control and card access products (hereinafter individually or collectively, as applicable, referred to as "**Mircom System**").

NOTE TO ALL READERS:

1. **Nature of Warnings.** The within warnings are communicated to the reader out of an abundance of caution and create no legal obligation for Mircom Group of Companies, whatsoever. Without limiting the generality of the foregoing, this document shall NOT be construed as in any way altering the rights and obligations of the parties, governed by the legal documents that apply in any given circumstance.

2. **Application.** The warnings contained in this document apply to all Mircom System and shall be read in conjunction with:

   a. the product manual for the specific Mircom System that applies in given circumstances;

   b. legal documents that apply to the purchase and sale of a Mircom System, which may include the company's standard terms and conditions and warranty statements;

   c. other information about the Mircom System or the parties' rights and obligations as may be application to a given circumstance.

3. **Security and Insurance.** Regardless of its capabilities, no Mircom System is a substitute for property or life insurance. Nor is the system a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation. Building automation systems produced by the Mircom Group of Companies are not to be used as a fire, alarm, or life-safety system.

NOTE TO INSTALLERS:

All Mircom Systems have been carefully designed to be as effective as possible. However, there are circumstances where they may not provide protection. Some reasons for system failure include the following. As the only individual in contact with system users, please bring each item in this warning to the attention of the users of this Mircom System. Failure to properly inform system end-users of the circumstances in which the system might fail may result in over-reliance upon the system. As a result, it is imperative that you properly inform each customer for whom you install the system of the possible forms of failure:

4. **Inadequate Installation.** All Mircom Systems must be installed in accordance with all the applicable codes and standards in order to provide adequate protection. National standards require an inspection and approval to be conducted by the local authority having jurisdiction following the initial installation of the system and following any changes to the system. Such inspections ensure installation has been carried out properly.

5. **Inadequate Testing.** Most issues and/or problems that would prevent a Mircom System alarm from operating as intended, can be identified through regular testing and maintenance. The complete system should be tested by the local authority having jurisdiction immediately after a fire, storm, earthquake, accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

NOTE TO USERS:

All Mircom Systems have been carefully designed to be as effective as possible. However, there are circumstances where they may not provide protection. Some reasons for system failure include the following. The end user can minimize the occurrence of any of the following by proper training, testing and maintenance of the Mircom Systems:

6. **Inadequate Testing and Maintenance.** It is imperative that the systems be periodically tested and subjected to preventative maintenance. Best practices, local codes, applicable laws and industry regulations, and any local authority having jurisdiction to do so, determine the frequency and type of testing that is required at a minimum. Mircom System may not function properly, and the occurrence of other system failures identified below may not be minimized, if the periodic testing and maintenance of Mircom Systems is not completed with diligence and as required.

7. **Improper Operation.** It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm. A Mircom System may not function as intended during an emergency situation where the user is unable to operate a panic or emergency switch by reason of permanent or temporary physical disability, inability to reach the device in time, unfamiliarity with the correct operation, or related circumstances.

8. **Insufficient Time.** There may be circumstances when a Mircom System will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time enough to protect the occupants or their belongings.

9. **Carelessness or Safety Hazards.** Moreover, smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits or children playing with matches or arson.

10. **Power Failure.** Some Mircom System components require adequate electrical power supply to operate. Examples include: smoke detectors, beacons, HVAC, and lighting controllers. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage Mircom Systems or other electronic equipment. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

11. **Battery Failure.** If the Mircom System or any device connected to the system operates from batteries it is possible for the batteries to fail. Even if the batteries have not failed, they must be fully charged, in good condition, and installed correctly. Some Mircom Systems use replaceable batteries, which have a limited life-span. The expected battery life is variable and in part dependent on the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. Moreover, some Mircom Systems do not have a battery monitor that would alert the user in the event that the battery is nearing its end of life. Regular testing and replacements are vital for ensuring that the batteries function as expected, whether or not a device has a low-battery monitor.

12. **Physical Obstructions.** Motion sensors that are part of a Mircom System must be kept clear of any obstacles which impede the sensors' ability to detect movement. Signals being communicated by a Mircom System may not reach the receiver if an item (such as metal, water, or concrete) is placed on or near the radio path. Deliberate jamming or other inadvertent radio signal interference can also negatively affect system operation.

13. **Wireless Devices Placement Proximity.** Moreover all wireless devices must be a minimum and maximum distance away from large metal objects, such as refrigerators. As the end user, you are required to consult the specific Mircom System manual and application guide for any maximum distances required between devices and suggested placement of wireless devices for optimal functioning.

14. **Failure to Trigger Sensors.** Moreover, Mircom Systems may fail to operate as intended if, motion, heat, carbon monoxide (CO) and/or smoke sensors, are not triggered.

    a. Sensors in a fire system may fail to be triggered when the fire is in a chimney, walls, roof, or on the other side of closed doors. Smoke and heat detectors may not detect smoke or heat from fires on another level of the residence or building. In this situation the control panel may not alert occupants of a fire.

    b. Sensors in a nurse call system may fail to be triggered when movement is occurring outside of the motion sensors' range. For example, if movement is occurring on the other side of closed doors or on another level of the residence or building the motion detector may not be triggered. In this situation the central controller may not register an alarm signal.

15. **Interference with Audible Notification Appliances.** Audible notification appliances may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners, appliances, or passing traffic. Audible notification appliances, however loud, may not be heard by a hearing-impaired person.

16. **Other Impairments.** Alarm notification appliances such as sirens, bells, horns, or strobes may not warn or waken a sleeping occupant if there is an intervening wall or door. It is less likely that the occupants will be alerted or awakened when notification appliances are located on a different level of the residence or premise.

17. **Software Malfunction.** Most Mircom Systems contain software. No warranties are provided as to the software components of any products or stand-alone software products within a Mircom System. For a full statement of the warranties and exclusions and limitations of liability please refer to the company's standard Terms and Conditions and Warranties.

18. **Telephone Line/Network Malfunction.** Telephone service can cause system failure where telephone lines/networks are relied upon by a Mircom System. Alarms and information coming from a Mircom System may not be transmitted if a phone line/network is out of service or busy for a certain period of time. Alarms and information may not be transmitted where telephone lines/networks have been compromised by criminal tampering, local construction, storms or earthquakes.

19. **Component Failure.** Although every effort has been made to make this Mircom System as reliable as possible, the system may fail to function as intended due to the failure of a component.

20. **Integrated Products.** Mircom System might not function as intended if it is connected to a non-Mircom product or to a Mircom product that is deemed non-compatible with a particular Mircom System. A list of compatible products can be requested and obtained.

21. A Mircom System's Auto Configuration feature is intended to assign the Alarm process type to all inputs and to provide an initial set up by detecting connected devices and generates a basic job configuration upon the initial installation of the Mircom System. Mircom makes no representations, warranties or guarantees regarding the accuracy or suitability of the basic job configuration generated upon installation, for any specific site requirements.
The end user shall be solely and exclusively responsible to thoroughly review the basic job generated by the auto configuration feature upon initial installation and to implement necessary adjustments and modifications to customize the job configuration in accordance with the functional and/or technical requirements of the site. Mircom expressly disclaims any responsibility or liability for any failure, malfunction or defective operation of a Mircom System and any associated components, resulting from the end user's failure to customize or adjust the job configuration accordingly.
By installing and utilizing the Mircom System, the user acknowledges and agrees that Mircom shall not be liable for any claims, losses, damages, or defects arising from the failure of the user or installer and those for whom it is responsible at law, to customize the basic job configuration generated on the initial set-up in accordance with the requirements of the site.

Warranty

Purchase of all Mircom products is governed by:

https://www.mircom.com/product-warranty

https://www.mircom.com/purchase-terms-and-conditions

https://www.mircom.com/software-license-terms-and-conditions