

TX3 Series

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



Configuration and Administration Manual

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Mircom Configuration and Administrator Guide Version 6

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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
- TX3 Features
- Touch Screen Features
- Administrator's Responsibilities
- Firmware Compatibility
- Physical Architecture
- TCP/IP Ports
- About This Manual
- Contact Us

1.1 Introducing the TX3 Suite

The TX3 product suite consists of access control panels (Telephone Access, Card Access, Aperio Door Controller 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 Aperio Door Controller System interfaces with Aperio wireless hubs and locksets to provide card and keypad access.

The Mircom Touch Screen (also referred to as 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 and an easy-to-use administrator configuration utility. 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 Configurator Software

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

On the Touch Screen system the Configurator is part of the administrator interface.

This manual provides the administrator with information about the use and configuration of the TX3 product suite, and explains how to configure various components for a new system, including the modification of an existing system.

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

- TX3-120/200-4 (4x20 LCD Telephone Access Panel)
- TX3-120/200-4-A/B (IP Capable 4x20 LCD Telephone Access Panel)
- TX3-1000-4 (4x20 LCD Telephone Access Panel)
- TX3-1000-4-A/B (IP Capable 4x20 LCD Telephone Access Panel)
- TX3-2000-4 (4x20 LCD Telephone Access Panel)
- TX3-2000-4-A/B (IP Capable 4x20 LCD Telephone Access Panel)
- TX3-200-8 (8x20 LCD Telephone Access Panel)
- TX3-200-8-A/B (IP Capable 8x20 LCD Telephone Access Panel)
- TX3-1000-8 (8x20 LCD Telephone Access Panel)
- TX3-1000-8-A/B (IP Capable 8x20 LCD Telephone Access Panel)

- TX3-2000-8 (8x20 LCD Telephone Access Panel)
- TX3-2000-8-A/B (IP Capable 8x20 LCD Telephone Access Panel)
- TX3-CX (Dual Card Reader)
- TX3-CX-2(K)-A (IP Capable Dual Card Reader)
- TX3-CX-1 and TX3-CX-1NP (Single Door Controller)
- TX3-ER-8 (Elevator Restriction Unit)
- TX3-ER-8-A (IP Capable Elevator Restriction Unit)
- TX3-TOUCH-F15, TX3-TOUCH-S15, TX3-TOUCH-K15 (15 Inch Touch Screen Terminal)
- TX3-TOUCH-F15-A/B, TX3-TOUCH-S15-A/B (IP Capable 15 Inch Touch Screen Terminal)
- TX3-TOUCH-F22 and TX3-TOUCH-S22 (22 inch Touch Screen Terminals)
- TX3-CX-A8 (Aperio Door Controller Panel)
- TX3-2000-8K-A: 8 line Voice Entry panel, Kiosk style mount for 2000 names

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
- 35-bit Indala
- 37-bit Mircom
- 50-bit RBH
- 32-bit CSN
- 37-bit HID 10304

- 35-bit HID corporate 1000
- 36-bit HID Simplex
- 36-bit Keyscan
- 37-bit Cansec
- 39-bit Kantech

1.1.4 Card Formats Supported by the Aperio System

- 26-bit Wiegand SIA
- 37-bit Mircom
- 32-bit CSN
- 37-bit HID 10304
- 35-bit HID corporate 1000
- 36-bit HID Simplex

1.1.5 Other Controllers

Mircom devices such as the Card Access Controller, the Lobby Control Unit, and the Touch Screen 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.

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.

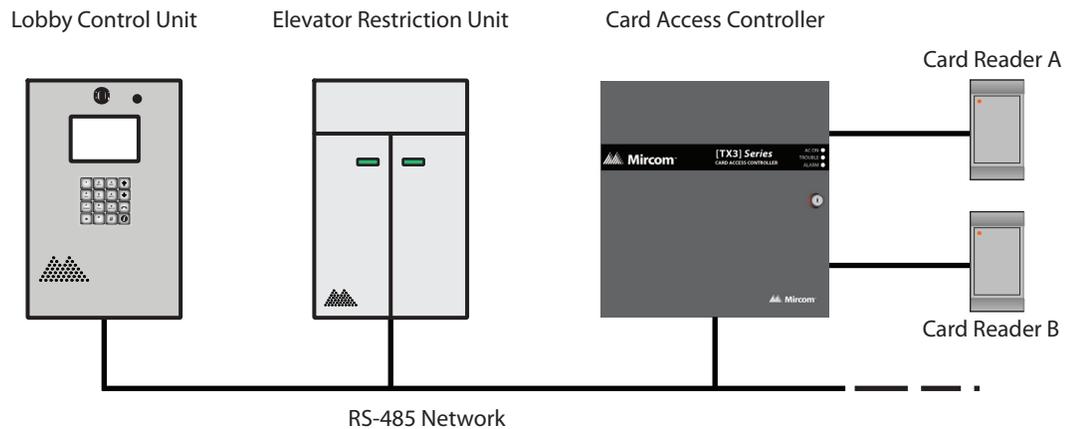


Figure 1. TX3 devices on an RS-485 network

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 Master Nodes. If you connect to the TCP/IP network with the TX3 Configurator, you can connect to and configure any of the Master Nodes on the Ethernet TCP/IP network. If you connect directly to one of the Master Nodes using USB, a modem, or a COM port, you will be able to configure that device but not any other device.

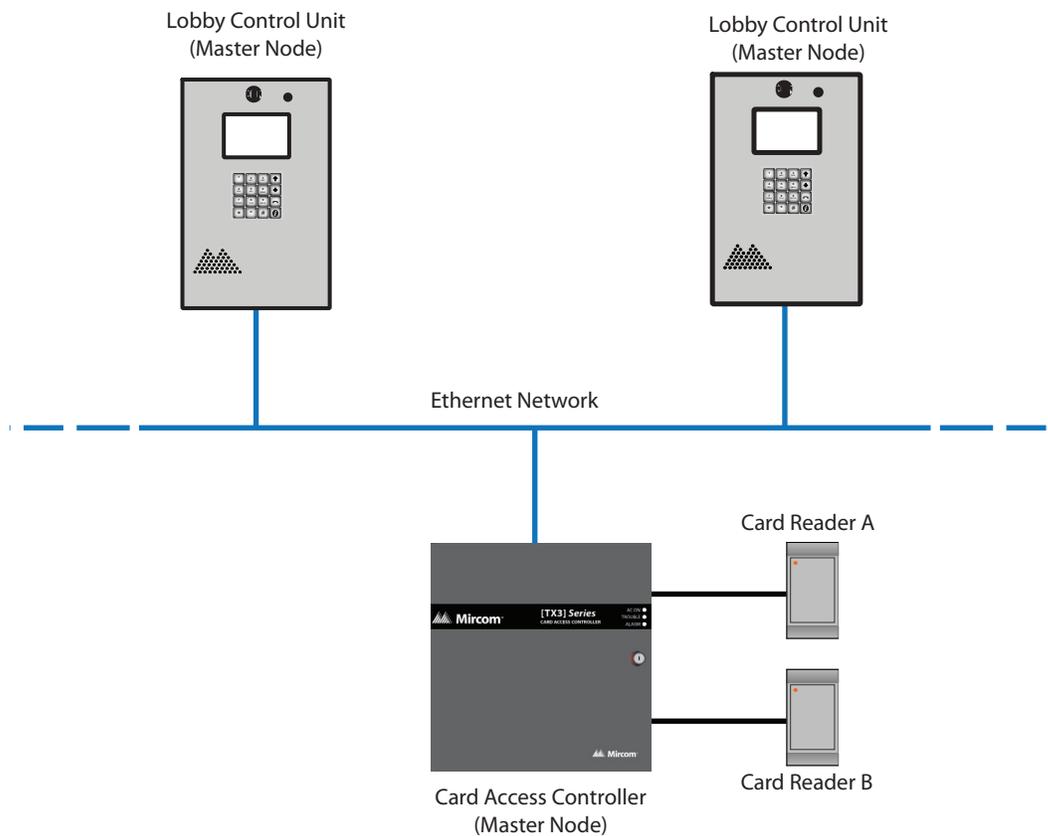


Figure 2. TX3 devices connected to an Ethernet TCP/IP network

-
- Notes:** In order for a panel to be a Master Node it must satisfy the following conditions.
- It must be IP capable. Panels that are IP capable are usually denoted by a “-A” 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 Master Node's RS-485 subnetwork are Slave Nodes to the Master Node. Each RS-485 subnetwork can have up to 63 devices connected to it; you can still have more than 63 Master Nodes connected to the Ethernet network.

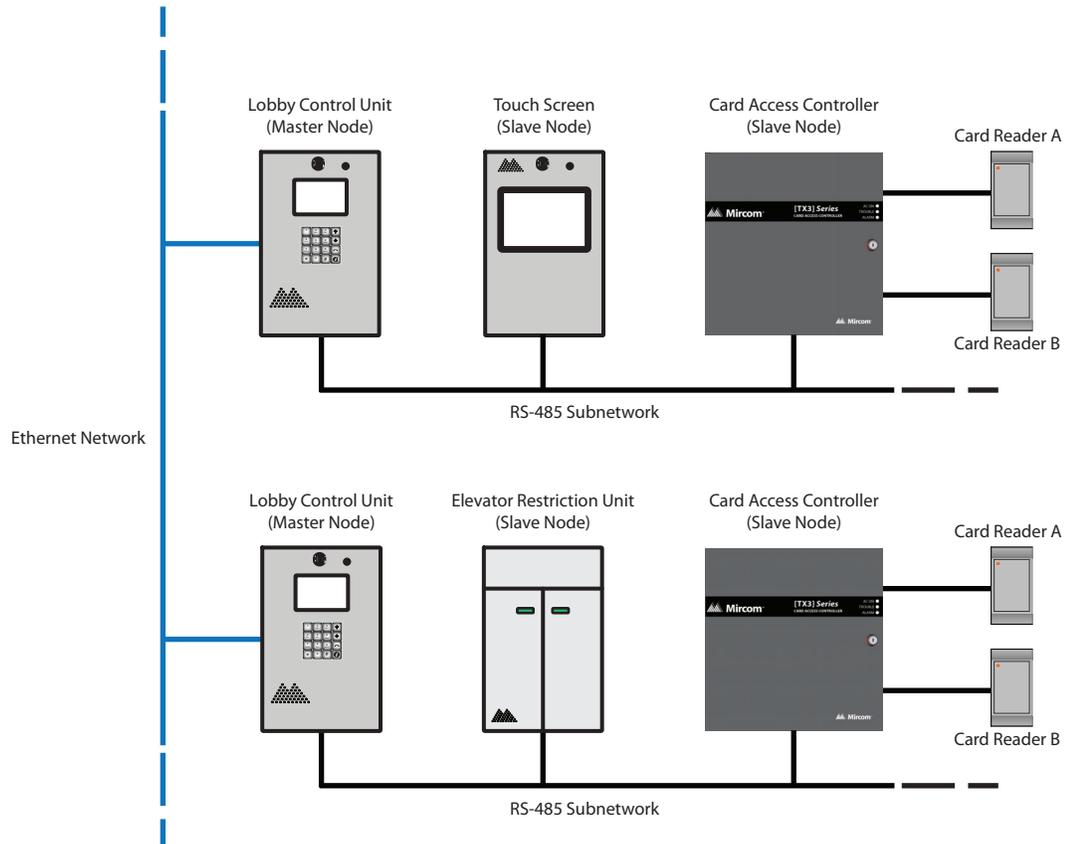


Figure 3. TX3 devices connected to a combination Ethernet TCP/IP network with RS-485 subnetworks

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** Master 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 configure Touch Screen options such as color and themes), the Touch Screen panel must be set as a Master Node even if there is no slave panel connected to it.

1.2 TX3 Features

Features of the TX3 product suite include:

- An aesthetically pleasing high quality personalized communication system between residents and their visitors
- Building ready access control system with full software management in a user friendly graphical touch enabled interface
- Easy configuration and customization of tenant access
- Provisions for postal lock and camera
- Multilingual Display and Voice Greeting (English, French-Canadian and Spanish) that provides instructions on how to use the Touch Screen
- Concierge/Security Desk/Call Reception capability
- Supports both Auto Dialer (ADC) and NSL
- Ability to network panels together (peer-to-peer) through RS485, Ethernet TCP/IP, or both
- Hands free, full duplex communication
- Flexible one to four digit resident dial codes
- Dials up to 18 digit telephone numbers
- Schedule based call restrictions provide more security and flexibility
- System can be configured locally using the Configurator
- Remote desktop configuration from any location using the Configurator
- Upload/download configuration files without taking the whole system off-line
- Records a maximum of 5000 event logs

1.3 Touch Screen Features

The Touch Screen includes the following additional features:

- Full color Touch Screen display
- Stainless steel front panel
- Viewable in direct sunlight
- 150 Watt stereo sound system
- Ability to play advertisements
- Ability for visitors to email residents
- System can be configured locally or remotely using the Touch Screen administrator interface

1.3.1 Touch Screen Applications

The Touch Screen is a user friendly graphical application that provides one-to-one customization of tenant access by enhancing the building entry experience and creating a truly personalized session. The Touch Screen graphical interface includes the ability to provide tenants and guests with specific advertisements and messages, making it an extremely valuable marketing and notification tool.

As part of Mircom's design theme and strategy for the high rise building market, a visitor at the Touch Screen sees a series of institution defined advertisement and promotional messages. These messages form the basis for the personalized visitor session.

The entire building experience is personalized at the Touch Screen based on preferences and marketing campaigns defined by the building management. The personalization includes:

- Setting eligible functions and tenant accessibility codes
- Permitting user access and options
- Changing the look and feel of the user interface

The Touch Screen provides a way for the institution to easily administer the configuration session with the Mircom Touch Screen, and implement tenant profile updates.

For the administrator, the Touch Screen provides an integrated and comprehensive database facility to gather, configure and manage various system components and parameters. This central database manages tenant and system data, and facilitates the administrator in implementing updates to the tenant registry.

1.4 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.

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 Touch Screen or computer 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

1.5 Firmware Compatibility

You can have a mix of panels in your job (some with version 3 firmware and some with version 2 firmware). However, all the panels must have either new firmware (2.4.x and 3.4.x) or old firmware (2.0.x and 3.0.x or 3.1.x).

For example, your job can have some panels with version 2.4.x firmware and some panels with version 3.4.x firmware.

Or your job can have some panels with version 2.0.13 firmware and some panels with version 3.1.26 firmware.

But your job cannot mix old and new firmware:

- Your job cannot have some panels with 3.4.x firmware and some panels with 2.0.x or 3.0.x firmware.
- Your job cannot have some panels with 2.4.x firmware and some panels with 2.0.x or 3.0.x firmware.

1.6 Physical Architecture

The Configurator lets you connect a single panel or an entire network of panels, displaying images of every panel on your site in the Job tree.

You are able to assign additional panels using the Touch Screen or Configurator interface to recognize and receive data from other panels on your network.

The modular architecture of the TX3 system allows for a flexible, scalable and customized application, and is determined by the number of building access points, expected traffic, number of residents, volume of communications, concurrent connections and Touch Screen placement.

The network architecture is determined by the expected resident traffic, number of residents, volume of transactions, concurrent connections and network capacity. The components of TX3 system, networked together, allows communication and interaction with the building infrastructure.

By default, Touch Screen is configured with the Telephone Access System Panel.

1.7 TCP/IP Ports

Section 1.1.5 on page 16 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.

1.8 About This Manual

This manual provides comprehensive information on the use of the Configurator and Touch Screen 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.

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

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

1.8.1 Additional Documentation

For a description on how to install the Configurator software see LT-973 Configurator Quick Start manual.

For additional documentation, see the following Mircom literature:

- 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-980 TX3-CX Card Access System Installation and Operation Manual
- LT-1160 TX3-CX-A8 Aperio Interface Panel Installation and Operation Manual
- LT-9940 TX3 Elevator Restriction Installation Manual
- TX3 Two Door Card Access System Kit Catalogue Number 6531
- LT-6616 Elevator Restriction Migration for Firmware Version 3
- LT-6615 Elevator Restriction Migration for Firmware Version 2

1.9 Contact Us



1.9.1 Customer Service

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2 Getting Started

This chapter explains

- PC System Requirements
- Installation
- Logging into Administrator Mode
- Shutting Down the TX3 Touch Screen
- Main Window Components
- Changing Passwords
- Assigning Configurator User Privileges
- Job Tree
- Configuring a Job
- Saving Log Files
- Upgrading Firmware
- Troubleshooting the Firmware Upgrade on a 64-bit Computer
- Network Firmware Upgrade
- Upgrading the Touch Screen Software

2.1 PC System Requirements

On the Touch Screen, the Configurator is part of the system and does not require additional software.

For the PC based Configurator version 2.8.x, the minimum system requirements are as follows:

- Windows 10 (32-bit)
- Windows 8 (32-bit)
- Windows 7 (32-bit)
- Windows Vista (32-bit)
- 1 GB RAM
- 1.8 GHz CPU
- 600 MB disk space
- 1 USB port

2.2 Installation

To 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 Logging into 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)
- 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

On the Touch Screen system the Configurator is part of the administrator interface and does not require a connection to a PC based Configurator. Logging in is done through the Touch Screen interface. An alternative is to use Remote Desktop to establish a remote connection to the Touch Screen. See section 4.1.2 on page 83.

When you start Touch Screen for the first time, it starts in user mode. You must place it in administrator mode to set the application appearance and configure the panel parameters, connections and passwords.

See Chapter 5 for a description of the Telephone Access System and Chapter 6 for a description of the Card Access System.

To 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
2. Double click the TX3 Configurator icon.

The administrator access code window appears.
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).

The Main Window appears.
4. 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 Shutting Down the TX3 Touch Screen

To shut down the TX3 unit from the touch screen

1. Navigate to the menu bar along the top and select the `File` menu.
2. In the menu that appears select `Shut Down` and select `Shut Down` again.
3. Confirm your selection when the pop-up window appears.

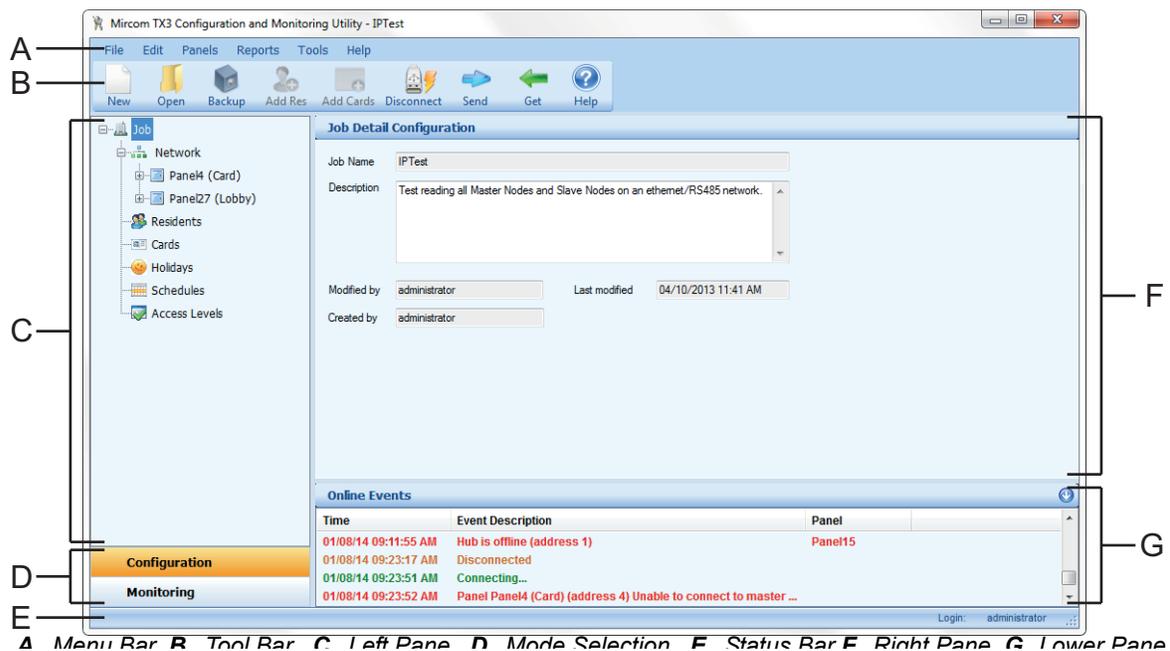
The Configurator software shuts down followed by the Windows environment and the hardware.

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

2.5 Main Window Components

By default, Touch Screen is configured to operate with the Telephone Access System panel. The Touch Screen 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



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.

Send and Exit. Sends the Job to the TX3 Unit and exits out from the Configurator.

Exit without Send. Does not send any changes made to the Job and exits out from the Configurator.

Shut Down.

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. 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.

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

Advertising Report. This option is available for the TX3 Touch. Generates an advertising report from the database. This report can be previewed, printed or exported to either Excel or PDF formats.

Tools Menu

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

Change Password. 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.

Languages. This option is available for the TX3 Touch. Selecting this option allows different languages to be chosen.

Purchase Advertising Module. This option is available for the TX3 Touch. To activate the advertising module select this option. For more information refer to section 4.6 on page 109.

IP Change Tool. See section 3.2 on page 68.

Alert Setup. See section 12.2 on page 264.

Firmware Upgrade Wizard. See section 2.11 on page 49.

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.

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 5. 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 Changing Passwords

Your password lets you access the Configurator and prohibits others from using your account. Once you access the Configurator you can change your administrator password.

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

To change your administrator password

1. Click **Tools > Change Password**. The Change User Password window appears.



Figure 6. 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.

2.7 Assigning 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.

To assign a user

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

The User Management window appears.

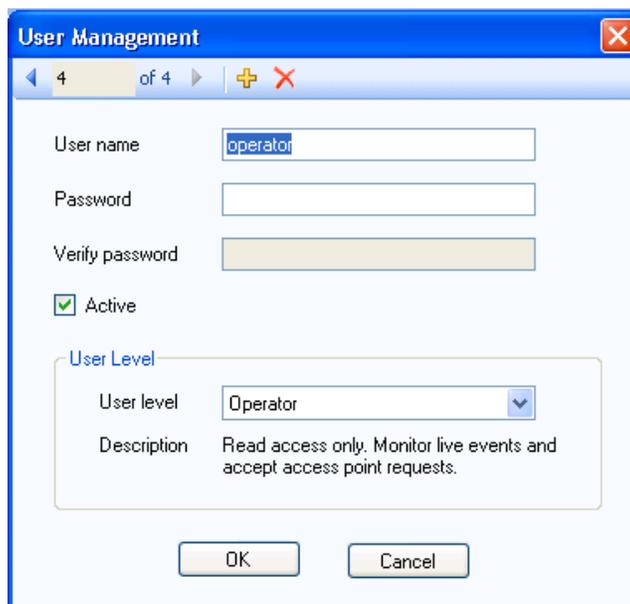


Figure 7. User Management Window

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.

2.8 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.

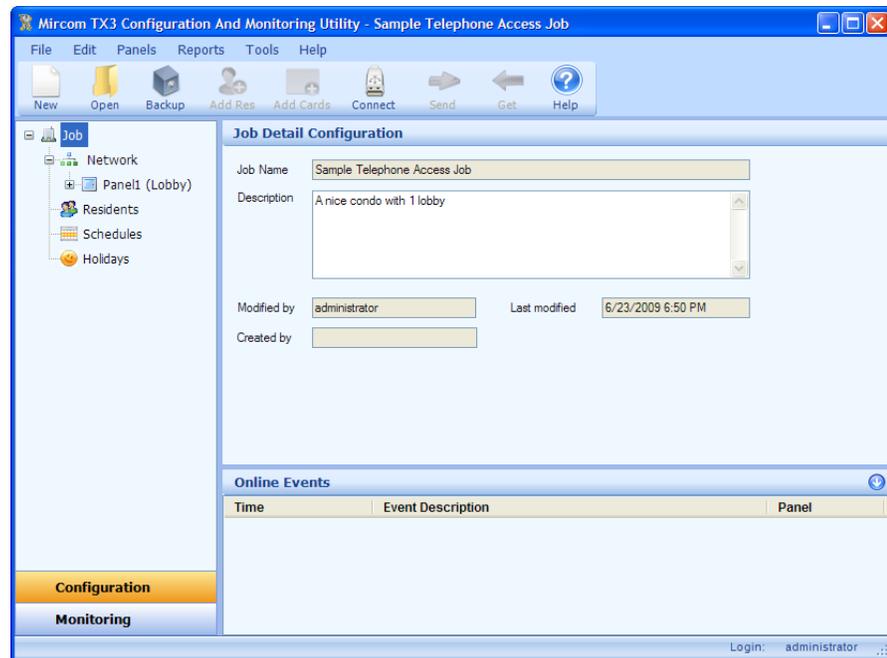


Figure 8. Job Tree

2.8.1 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.

2.9 **Configuring 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.

2.9.1 **Creating 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.

To 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.

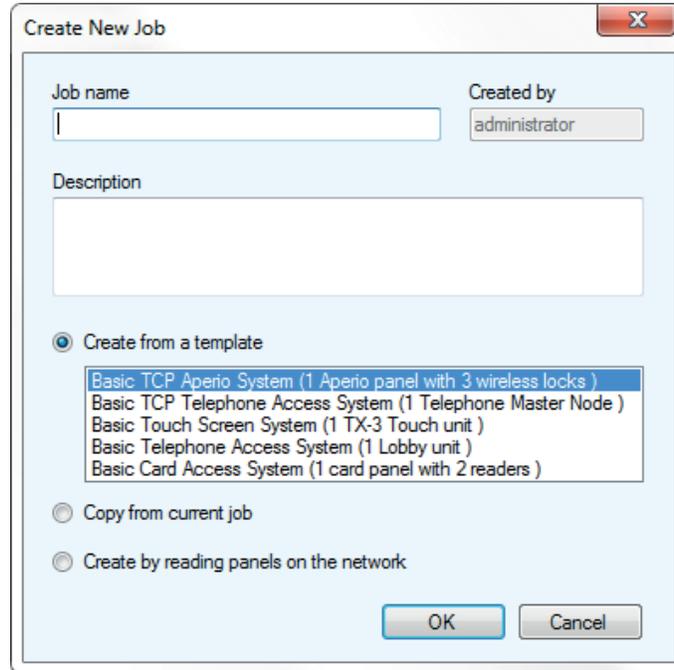


Figure 9. Create New Job

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.

To provide details about Job modifications

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

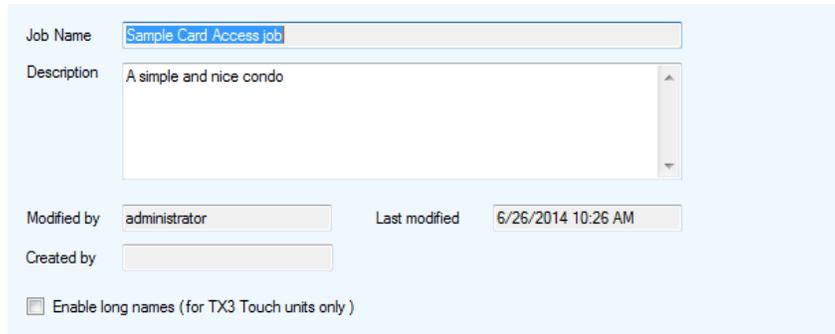


Figure 10. Job Detail Configuration

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.

Note: If the job has `Enable long names` selected (see section 2.9.1 on page 38), 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`.

2.9.2 Opening an existing Job

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

To open an existing Job

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

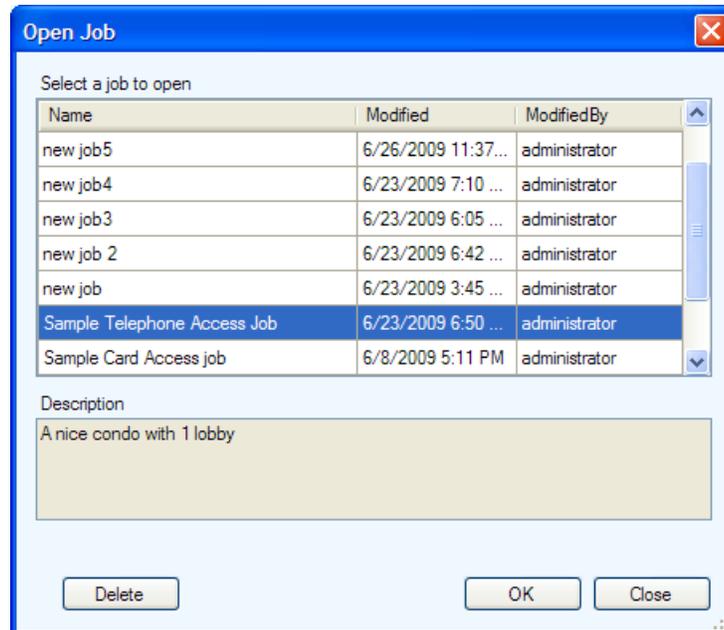


Figure 11. Open Job

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

To delete an existing Job

- To delete a Job permanently from the database, select the Job from the list and click **Delete**. A confirmation window appears.
- Click **Yes** to confirm the deletion or **No** to exit and return to the previous window.

2.9.3 Backing 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`.

To backup a Job

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

The Backup Jobs window appears.

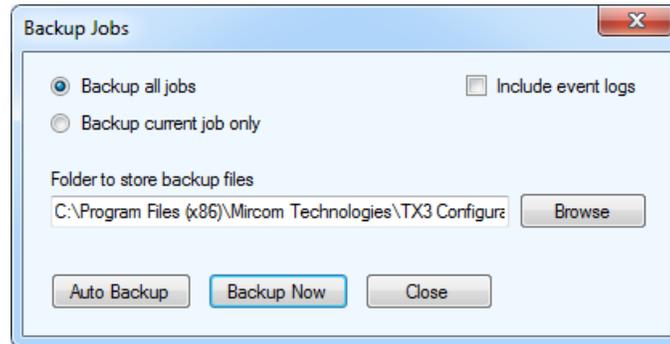


Figure 12. Backup Jobs

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.

To set up an automatic backup

If you enable automatic backups, the Configurator automatically backs up all jobs every 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.

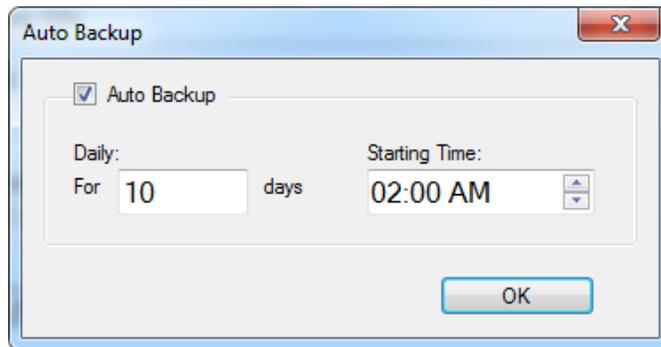


Figure 13. Auto Backup

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**.

2.9.4 Restoring a Job

You can restore previously saved Jobs.

To restore Jobs

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

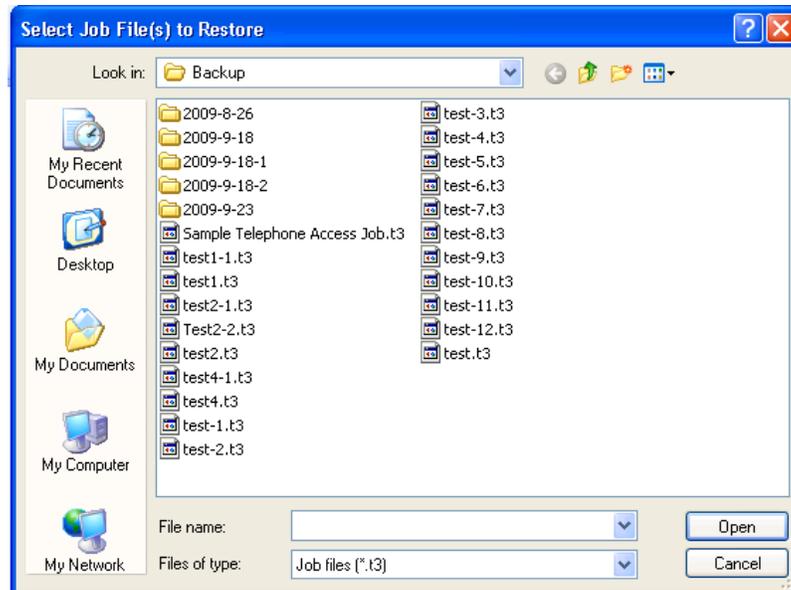


Figure 14. Select Job File to Restore

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

Notes: 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.

2.9.5 Validating 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.

To 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.

2.9.6 Sending 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

To 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.

To 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.

2.9.7 Getting Jobs

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 5.5 on page 156 and section 6.6 on page 186.

To get a Job

Note: If the job has `Enable long names` selected (see section 2.9.1 on page 38), 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 15. Get Job From Panel

2. Select the following parameters:

Create a new Job. Scans the network for panels and uses their configuration information to create a new Job. The `Detect new panels` check box is automatically checked.

Create a new Job based on current Job. Copies the current Job and creates a new Job based on the existing Job. If `Detect new panels` is checked, new panels information is also retrieved.

Overwrite current Job. Overwrites the existing information with the retrieved panel information.

Detect new panels. If selected the software scans the network for any new panels and reads their configurations.

2.10 Saving Log Files

2.10.1 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 16. TX3 Touch Admin Access

2. Enter the 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. After the Configurator has retrieved the job, click Disconnect.
5. Navigate to the File menu and select Exit to Windows.

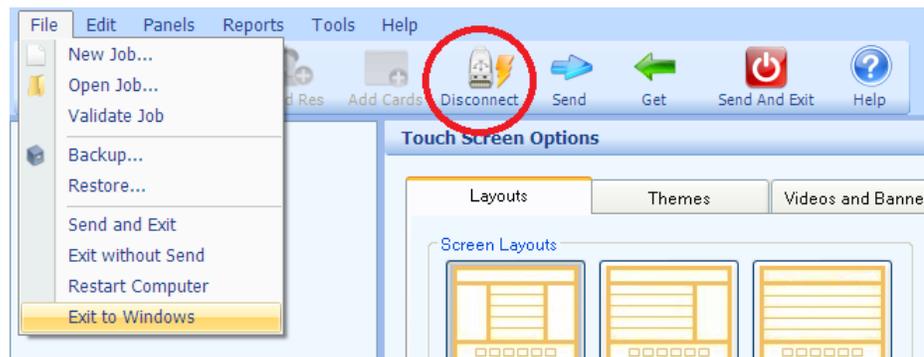


Figure 17. Configurator Exit Screen

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.

2.10.2 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.

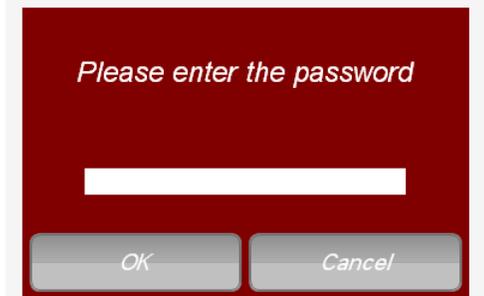


Figure 18. TX3 Touch Admin Access

2. Enter the 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.

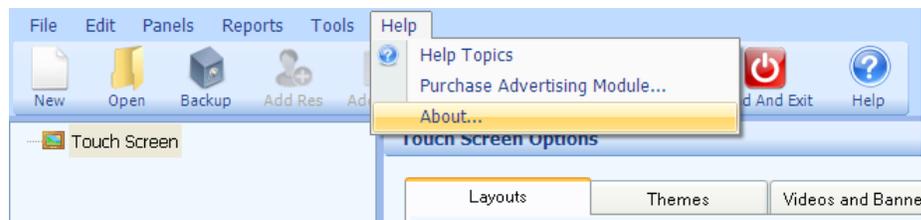


Figure 19. Help Menu Navigation

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



Figure 20. Log Files Save Screen

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

2.11 Upgrading Firmware

The Configurator provides you with a wizard to easily install the latest firmware into a panel. Firmware upgrades require that a specialized controller board hardware initialization procedure be done before using the installation wizard.

Go to the Mircom web site for the latest firmware.

Note: **This method of firmware upgrade does not work with the Single Door Controller.** Use the Network Firmware Upgrade option in section 2.13 on page 57.

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

2.11.1 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 called the major revision, and the second digit (1 in this case) is called 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.

To upgrade the firmware

1. Press **Connect** on the Tool Bar to connect to the panel and press **Get** on the Tool Bar to get the Job.
2. Initialize the controller for the firmware update.
3. Click the **Disconnect** icon in the Tool Bar. The Configurator is disconnected from the panel.

4. Select Panels/Firmware Upgrade from the Menu Bar. The Firmware Upgrade window appears.



Figure 21. Firmware Upgrade

5. Browse to and select the firmware file.

- Click **Next**. The Firmware Upgrade Wizard window appears instructing you to erase the existing firmware.

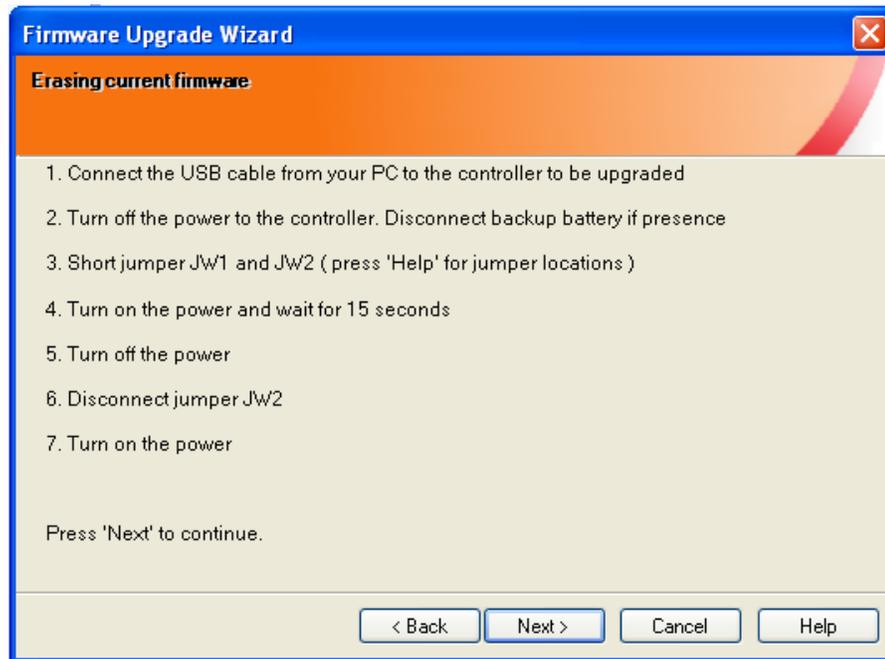


Figure 22. Firmware Upgrade - Erasing Current firmware

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

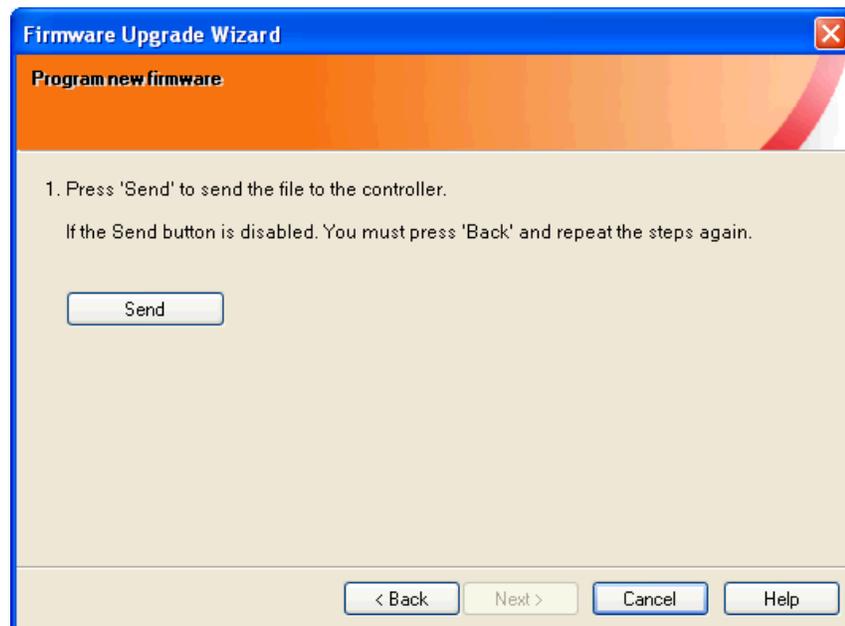


Figure 23. Firmware Upgrade - Program new firmware

8. Click **Send** to download the firmware or **Back** to repeat the procedure.
9. Click **Next** to complete the upgrade and exit the session.
10. Disconnect the USB cable from the controller and re-activate.
11. Press **Connect** on the Tool Bar to connect to the panel and then press **Send** on the Tool Bar to send the Job back to the panel.

2.12 Troubleshooting 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 greyed out, follow the instructions below.

To 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.

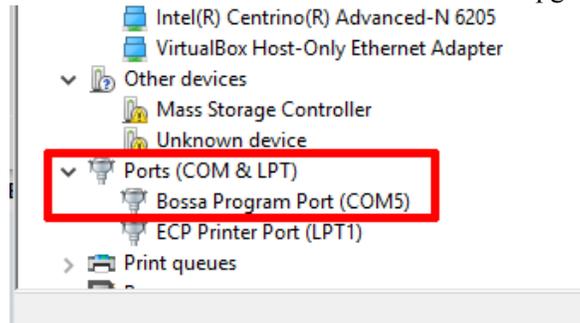


Figure 24. Device Manager showing Bossa driver

To upgrade the USB driver

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

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

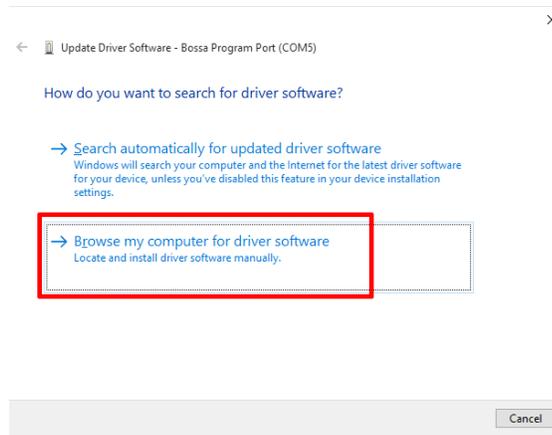


Figure 25. Browse my computer for driver software

- Click Browse.

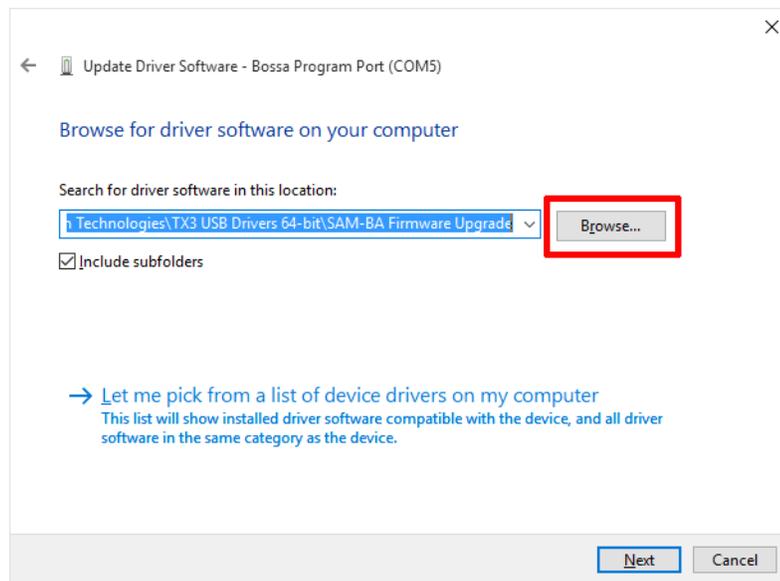


Figure 26. Browse for driver software

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.

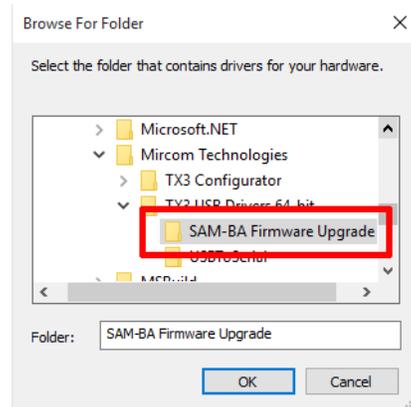


Figure 27. Browse For Folder

Do you see a window saying that the best driver software is already installed (Figure 28)?

If yes, click **C**lose and go to step 6.

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

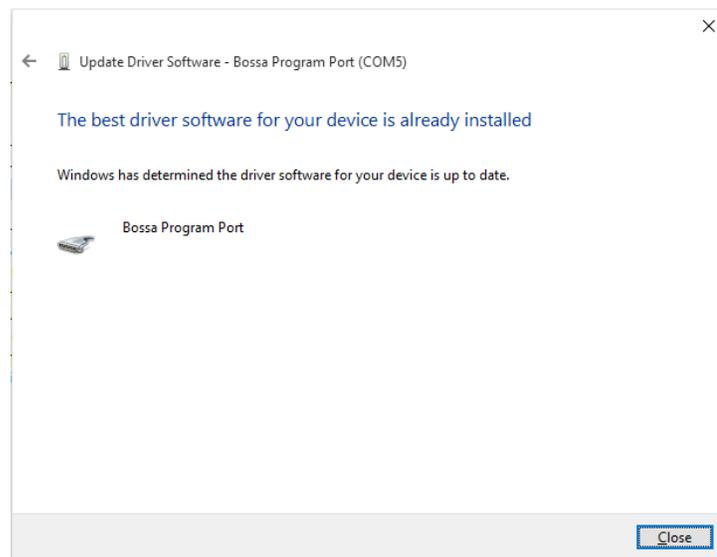


Figure 28. The best driver software is already installed

6. Go back to step 1 under **To upgrade the USB driver** on page 52 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.

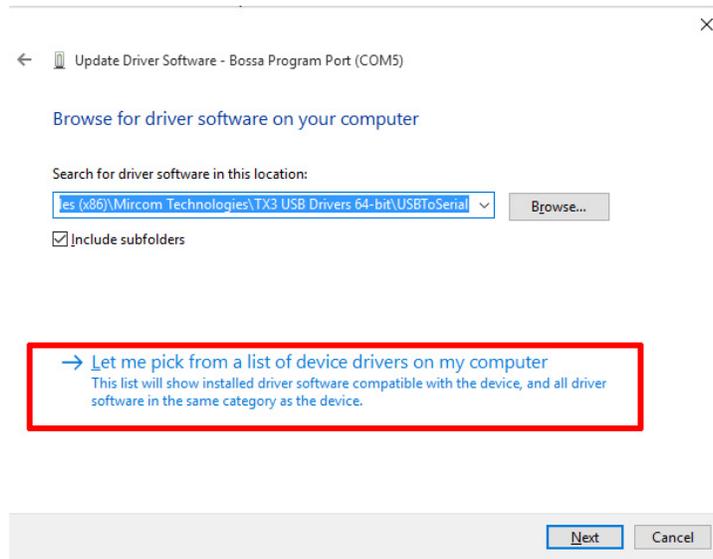


Figure 29. Let me pick from a list of device drivers

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

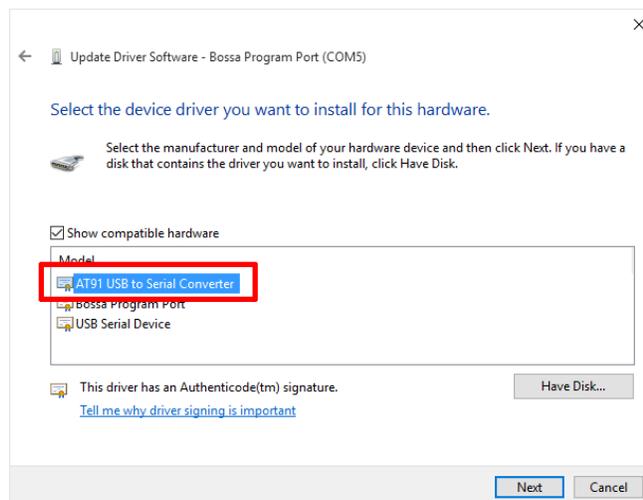


Figure 30. Select the device driver you want to install

Windows installs the driver software.

8. Click Close.



Figure 31. Windows has successfully updated your driver software

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

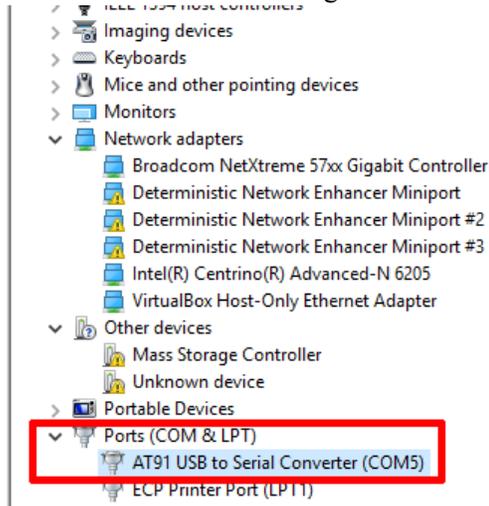


Figure 32. Device Manager

10. Follow the steps in section 2.11 on page 49 to upgrade the firmware.

2.13 Network Firmware Upgrade

The Configurator allows multiple panels connected in a network to have their firmware upgraded 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 1.1.5 on page 16).

Go to the Mircom web site for the latest firmware.

-
- Notes:** In order to use the Network Firmware Upgrade tool, a few requirements must be met.
- At least one panel on the network must have firmware version 2.0.0 (with boot loader) or higher installed.
 - The new firmware files must be version 2.0.0 or higher.
-

Note: Panels that do not have a boot loader installed with their current firmware version will need to have their firmware upgraded individually.

To 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 running.
3. Click the **Connect** icon in the Tool Bar. The Configurator is connected to the panel network. Press **Get** on the Tool Bar to get the Job.

4. Select **Panels > Network Firmware Upgrade** from the Menu Bar. The Network Firmware Upgrade window appears.

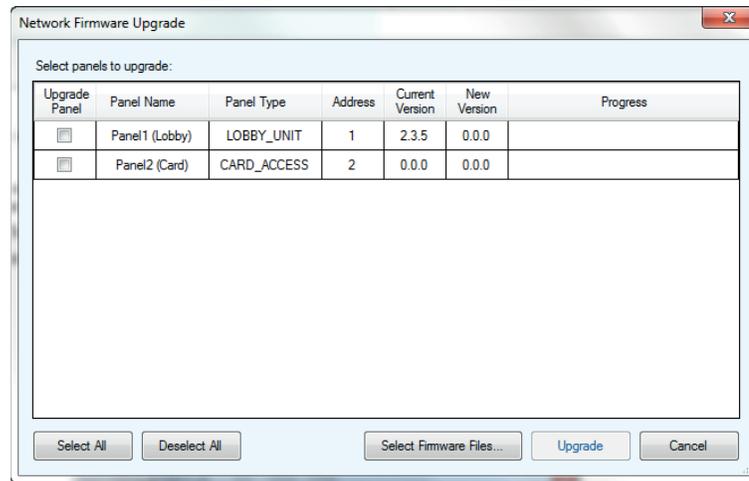


Figure 33. Network Firmware Upgrade Screen

5. Select the panels on the network to upgrade with new firmware by selecting the corresponding check boxes on the left.
6. Once the panels on the network have been selected press **Select Firmware Files**. The Select Firmware Files window appears.

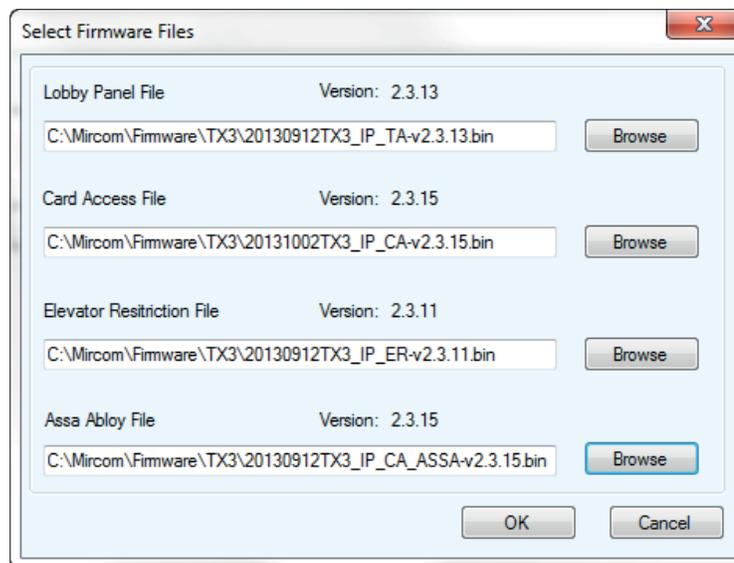


Figure 34. Select Firmware Files

7. Each type of panel on the network uses a different firmware file. Press **Browse** for one of the panel types being upgraded and in the new window that appears select the firmware file to use. Repeat this for each type of panel being upgraded on the network. Once completed press **OK**.
8. In the Network Firmware Upgrade window press the **Upgrade** button 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 resets. Wait until all panels have finished resetting before continuing.

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

2.14 Upgrading the Touch Screen Software

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 35. TX3 Touch Admin Access

5. Enter the password to log in to the system and press **OK** (by default 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.

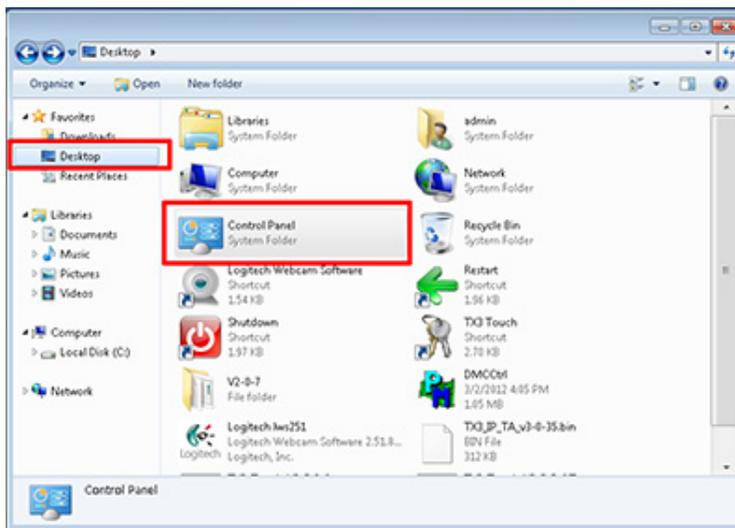


Figure 36. Control Panel

8. Select Uninstall a Program.

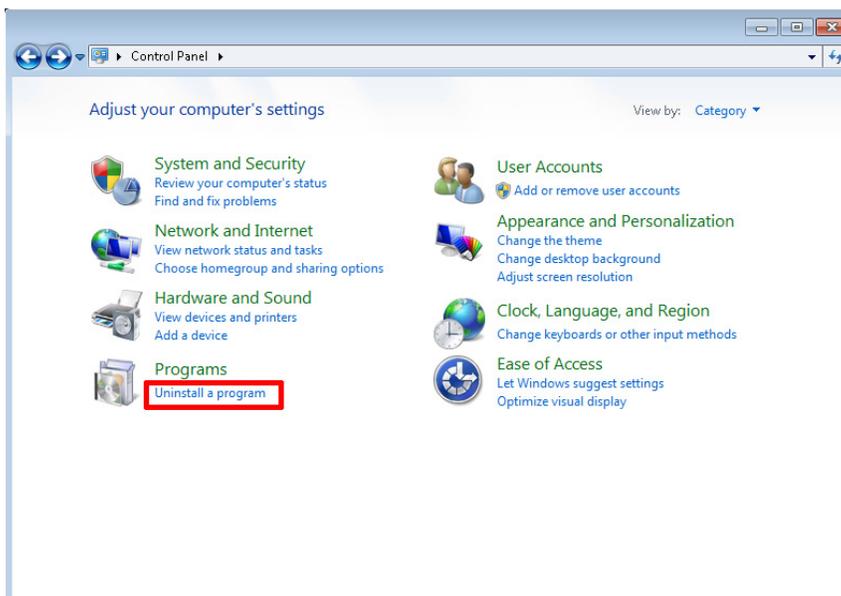


Figure 37. Uninstall a Program

9. Double-click TX3 Touch Entry Phone System.

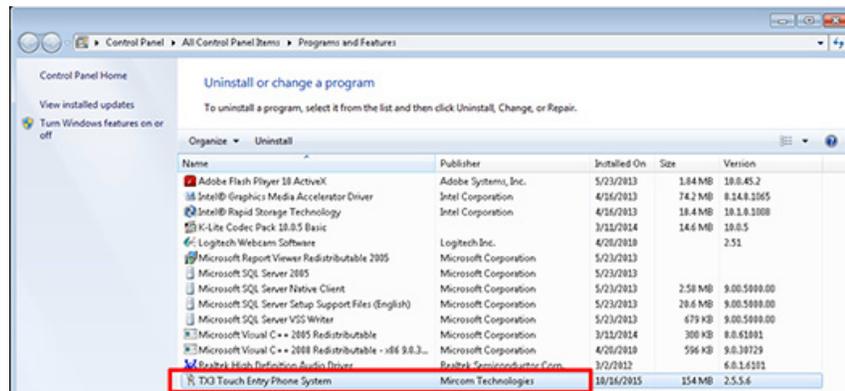


Figure 38. TX3 Touch Entry Phone System

10. Click Yes to remove the existing software.



Figure 39. 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 40. 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.

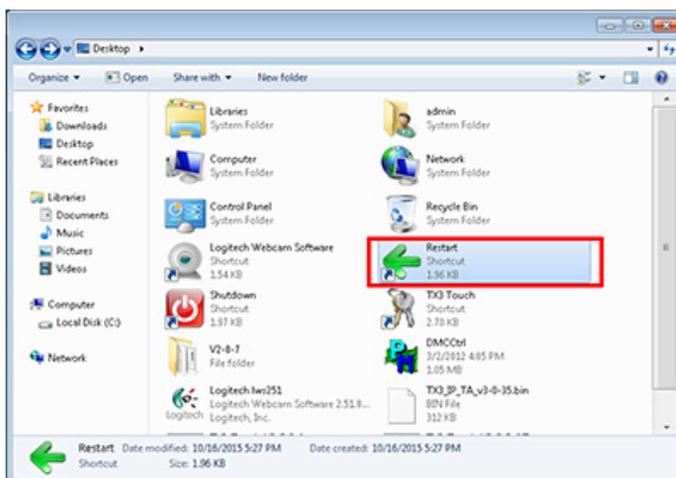


Figure 41. Restart the Touch Screen

3 Adding and Connecting to a Panel

The Touch Screen application and Configurator software 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

- Adding a Panel
- Changing a Master Node's IP Address
- Connecting to a Panel

3.1 Adding 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 on page 64. If you are connecting to a TX3 system with Master Nodes and Slave Nodes on an Ethernet TCP/IP network, see section 3.1.2 on page 65.

General information on how TX3 devices can be connected together (RS-485, Ethernet, or both) can be found in section 1.1.5 on page 16.

3.1.1 Adding 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.

To add a panel to the network

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

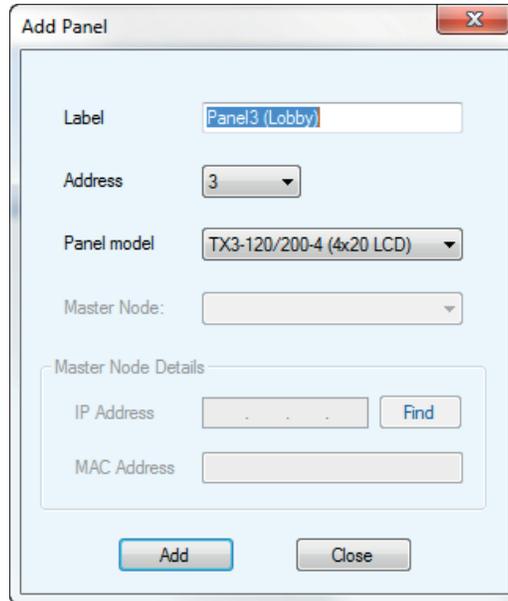


Figure 42. Add Panel

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 Adding 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 (Master Node) or they are connected to an RS-485 network (Slave Node). You can also use the TX3 Configurator to change the IP address of Master Nodes once they have been added to your Job.

3.1.2.1 Adding a Master 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 1.7 on page 24 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 on page 68.

To add a Master 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.

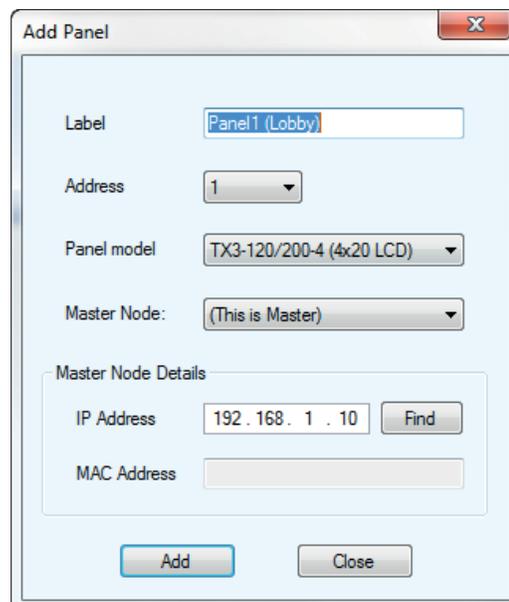


Figure 43. Add Master

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

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

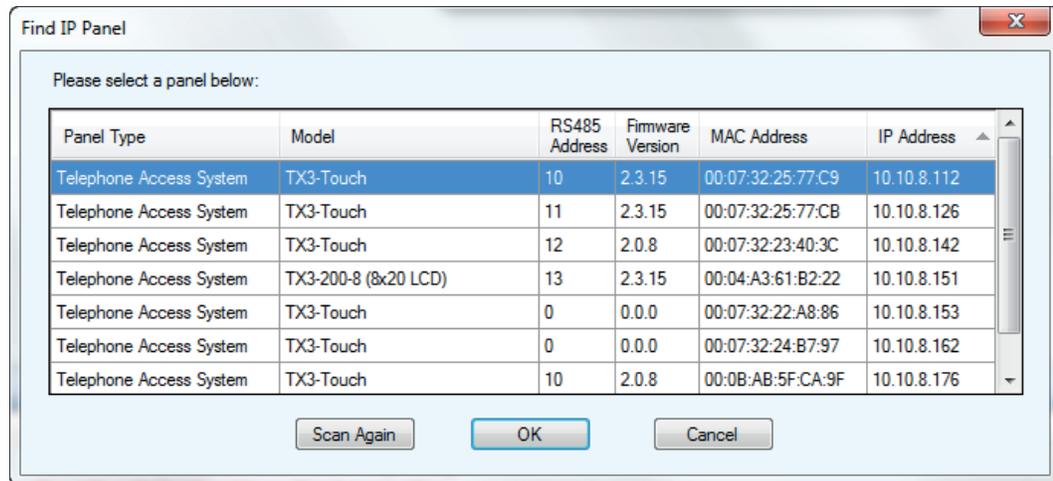


Figure 44. Find IP Panel

- Select the Master Node you want to add to your job, and then click **OK**.
- 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 on page 68.

3.1.2.2 Adding a Slave Node

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

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

To add a Slave Node panel to your job

- Right click anywhere on the tree and select **Add Panel**. The Add Panel window appears.
- From the Master Node list, select the panel that is the Master Node of the panel you want to add.
- 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 Deleting a Panel from the Network

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

To 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 Changing a Master Node's IP Address

You might need to change a non-Touch Screen Master 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 Master 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 1.7 on page 24 for information on what ports the TX3 system uses.
 - You **cannot** change the IP address for a Touch Screen panel using the TX3 Configurator. 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.

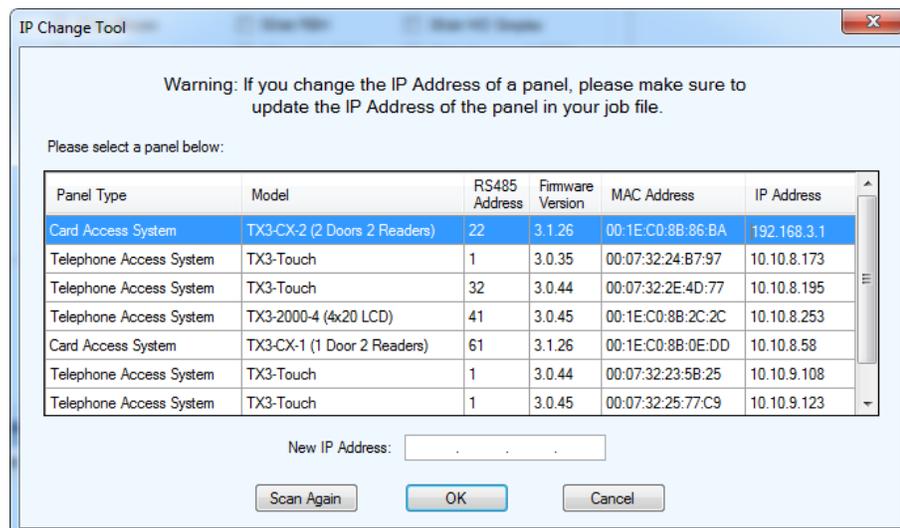


Figure 45. IP Change Tool

If you can see the panel, go to section section 3.2.4 on page 72.

If you cannot see the panel, go to section 3.2.3 on page 70.

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.

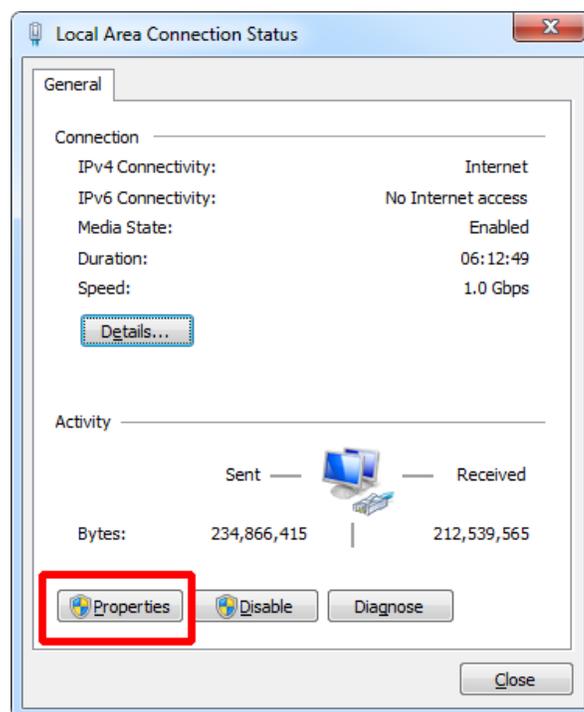


Figure 46. Local Area Connection

5. Double-click Internet Protocol Version 4.

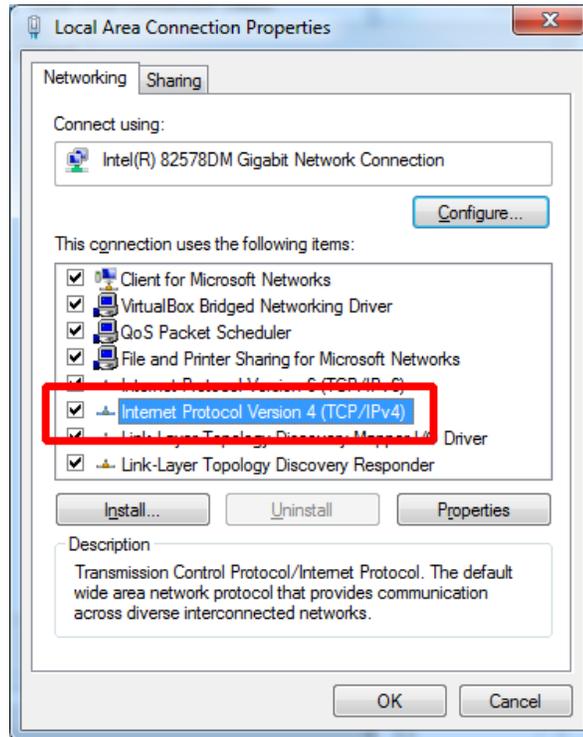


Figure 47. Local Area Connection Properties

The Internet Protocol Version 4 window appears.

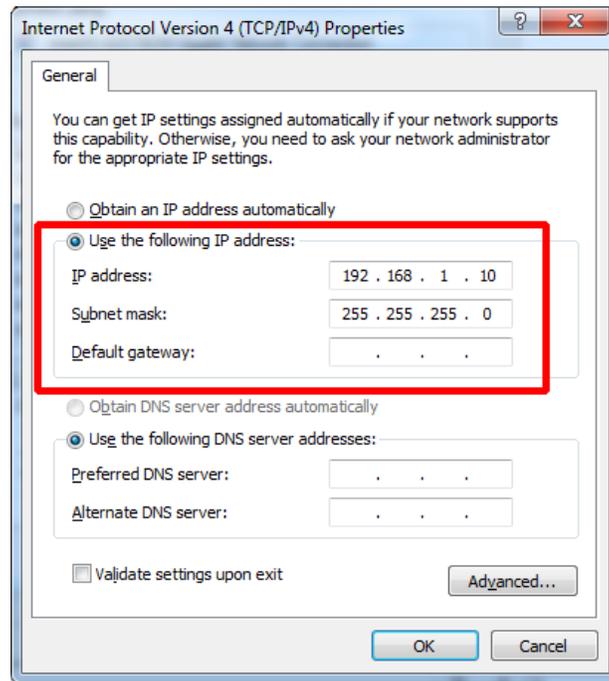


Figure 48. Internet Protocol Version 4

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.

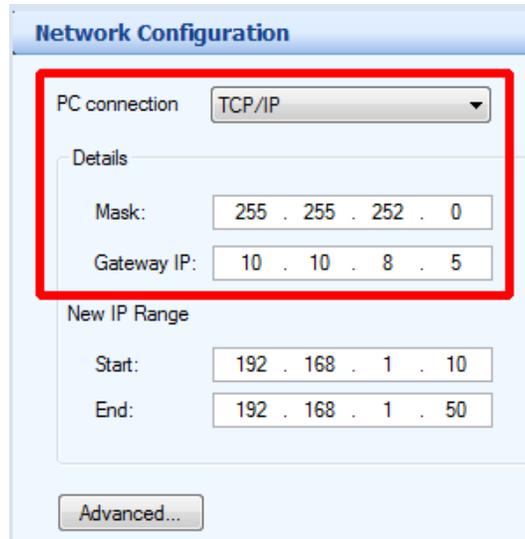
3.2.4 Change the Panel's IP Address

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.

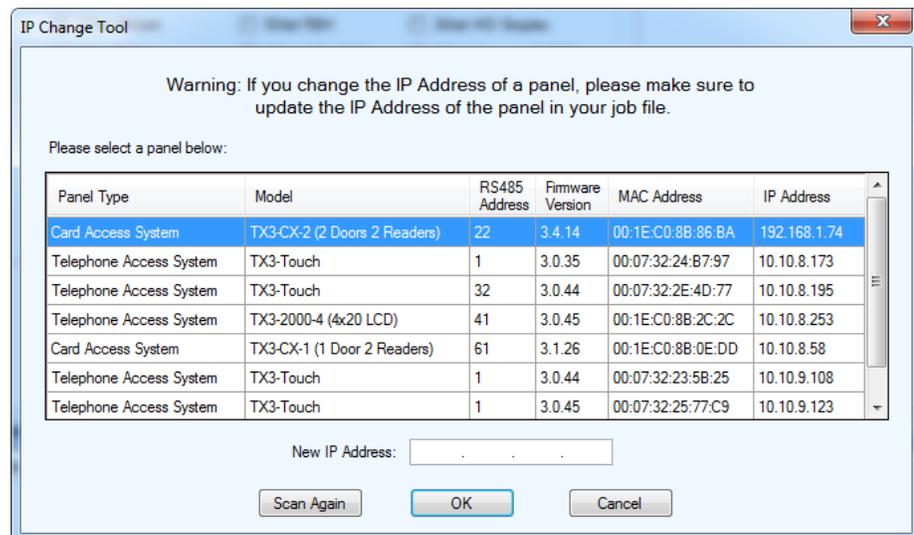


The image shows a 'Network Configuration' dialog box. A red rectangle highlights the 'PC connection' dropdown menu (set to 'TCP/IP'), the 'Mask' field (255 . 255 . 252 . 0), and the 'Gateway IP' field (10 . 10 . 8 . 5). Below these are the 'New IP Range' fields for 'Start' (192 . 168 . 1 . 10) and 'End' (192 . 168 . 1 . 50). An 'Advanced...' button is at the bottom.

Figure 49. Network Configuration

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

The IP Change Tool window appears.



The image shows the 'IP Change Tool' dialog box. It features a warning message: 'Warning: If you change the IP Address of a panel, please make sure to update the IP Address of the panel in your job file.' Below the warning, it says 'Please select a panel below:' and displays a table of panels. At the bottom, there is a 'New IP Address' input field and three buttons: 'Scan Again', 'OK', and 'Cancel'.

Panel Type	Model	RS485 Address	Firmware Version	MAC Address	IP Address
Card Access System	TX3-CX-2 (2 Doors 2 Readers)	22	3.4.14	00:1E:C0:8B:86:BA	192.168.1.74
Telephone Access System	TX3-Touch	1	3.0.35	00:07:32:24:B7:97	10.10.8.173
Telephone Access System	TX3-Touch	32	3.0.44	00:07:32:2E:4D:77	10.10.8.195
Telephone Access System	TX3-2000-4 (4x20 LCD)	41	3.0.45	00:1E:C0:8B:2C:2C	10.10.8.253
Card Access System	TX3-CX-1 (1 Door 2 Readers)	61	3.1.26	00:1E:C0:8B:0E:DD	10.10.8.58
Telephone Access System	TX3-Touch	1	3.0.44	00:07:32:23:5B:25	10.10.9.108
Telephone Access System	TX3-Touch	1	3.0.45	00:07:32:25:77:C9	10.10.9.123

Figure 50. IP Change Tool

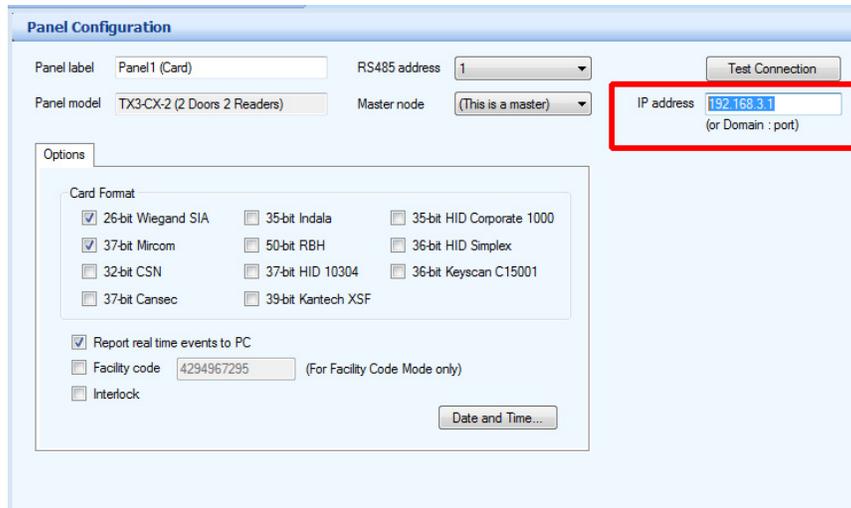
4. Select the panel that you want to change the IP address for.
5. Enter the new IP address in the New IP Address box.

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 on page 70 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 Master Node whose IP address you changed using the IP Change Tool.
3. Enter the Master Node's new IP address in the IP address box.



The screenshot shows the 'Panel Configuration' dialog box. At the top, there are fields for 'Panel label' (Panel1 (Card)), 'RS485 address' (1), 'Panel model' (TX3-CX-2 (2 Doors 2 Readers)), and 'Master node' ((This is a master)). A 'Test Connection' button is located to the right. Below these fields is an 'Options' section with a 'Card Format' sub-section containing several checkboxes for different card formats: 26-bit Wiegand SIA, 35-bit Indala, 35-bit HID Corporate 1000, 37-bit Mircom, 50-bit RBH, 36-bit HID Simplex, 32-bit CSN, 37-bit HID 10304, 36-bit Keyscan C15001, 37-bit Cansec, and 39-bit Kantech XSF. There are also checkboxes for 'Report real time events to PC', 'Facility code' (4294967295), and 'Interlock'. A 'Date and Time...' button is at the bottom right of the options section. The 'IP address' field, located to the right of the 'Master node' dropdown, is highlighted with a red box and contains the text '192.168.3.1' with '(or Domain : port)' below it.

Figure 51. IP address

4. Click Connect from the Tool Bar.



5. Click Send.



3.3 Connecting 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. By default, the Touch Screen is connected to the internal Telephone Access System Panel.

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.

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.

To 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.

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

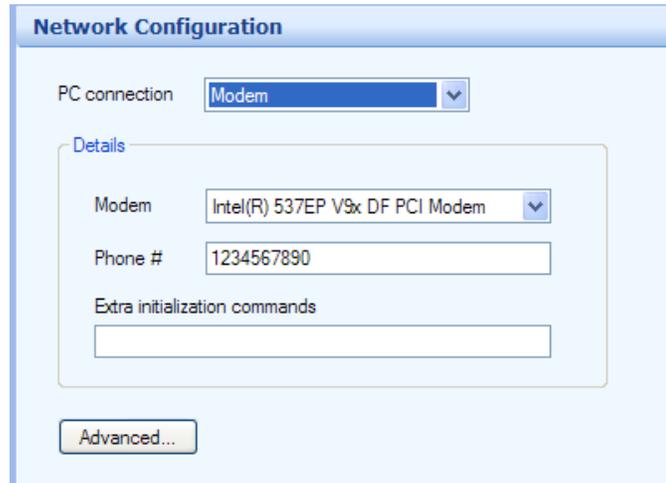


Figure 52. Network Configuration

- Select the type of connection you are using from the PC Connection list.
- Click **Advanced**. The Advanced Network Setup window appears.

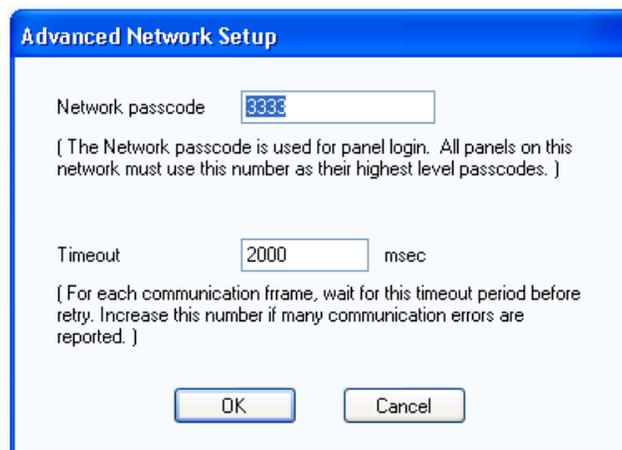


Figure 53. Advanced Network Setup

- 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 Connecting Through the COM Port

To connect to a panel using the COM port

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

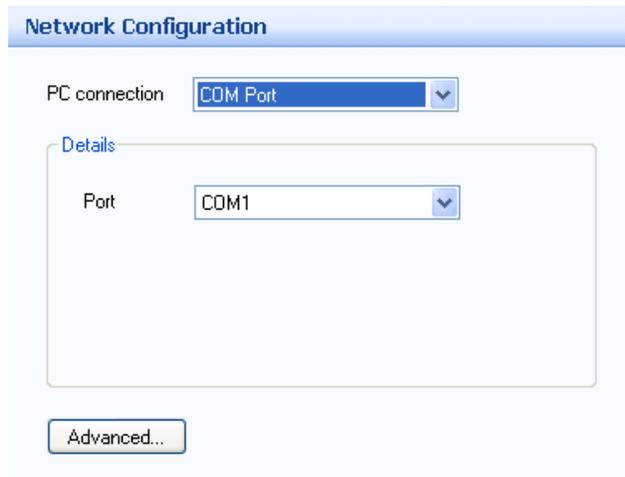


Figure 54. Network Configuration - COM Port

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 55. Connection Status Icon - Connected

3.3.2 Connecting Through a Modem

To connect to a panel using the modem

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

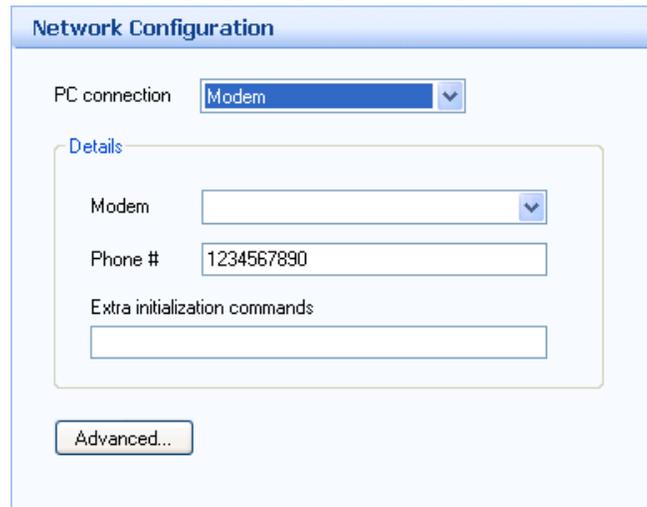


Figure 56. Network Configuration - Modem

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 Connecting Through USB

To 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 57. Network Configuration - USB

2. Click Connect from the Tool Bar.

3.3.4 Connecting 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 section 1.7 on page 24 for information on what ports the TX3 system uses.

To connect to a panel using a TCP/IP network

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

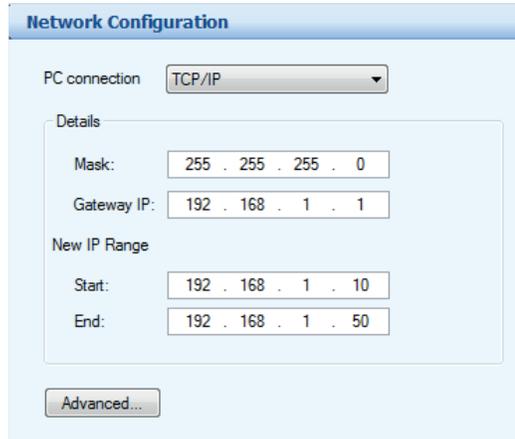


Figure 58. Network Configuration - TCP/IP

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.

3.3.5 Disconnecting 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.

To disconnect from the panel network

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



Figure 59. Connection Status Icon - Disconnected

2. Proceed with the configuration.

4 **Configuring the Touch Screen Appearance**

Touch Screen lets you easily change the appearance of the user interface by setting the system parameters and options.

This chapter explains

- Logging in to the Touch Screen
- Configuring the Touch Screen Appearance
- Modifying Layouts
- Creating and Modifying Themes
- Modifying Videos and Banners
- Configuring the Advertising Module
- Modifying More Options
- Calibrating the Touch Screen

4.1 Logging in to the Touch Screen

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

- Connecting to Touch Screen Master Nodes on a TCP/IP network with the TX3 Configurator (see section 3.3 on page 75)
- Connecting to a Master Node over the Internet (see Chapter 8 on page 205)
- Logging in at the Touch Screen terminal (see section 4.1.1 below)
- Logging in to the Touch Screen using Remote Desktop (see 4.1.2 below)

Note that if you want to change the appearance of a Slave Node, you can only do so by logging in to the Touch Screen either at the terminal or by using Remote Desktop. The appearance of Slave Nodes cannot be configured by using the TX3 Configurator.

4.1.1 Logging in at the Touch Screen terminal

Changes to the Touch Screen appearance can be made at the Touch Screen. This is useful if you have no way of connecting remotely to the Touch Screen (that is, the Touch Screen is not connected to an Ethernet network).

To log in to the Touch Screen terminal

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). The Main Window appears. You are now ready to begin configuration.
3. Proceed with your configuration or click **Send and Exit** from the Tool Bar to apply the settings and exit the session.

4.1.2 Logging in to the Touch Screen using Remote Desktop

Touch Screen provides you with a facility to access the application remotely using a Windows XP Pro based PC. This is extremely useful when adding a long list of resident names and their information to the Touch Screen.

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.

To establish a remote connection

1. Select Start/All Programs/Accessories/Remote Desktop Connection. The Remote Desktop Connection window appears.



Figure 60. Remote Desktop Connection

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



Figure 61. 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.

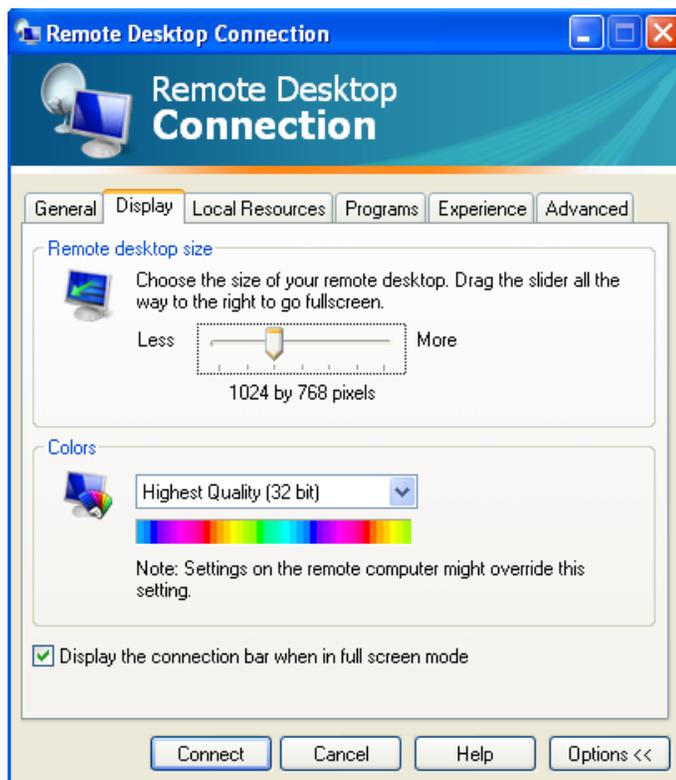


Figure 62. Remote Desktop Connection - Display

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 63. Remote Desktop Connection - Local Resources

7. Provide information for the following:

Remote Computer sound. From the drop down list select **On the 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.

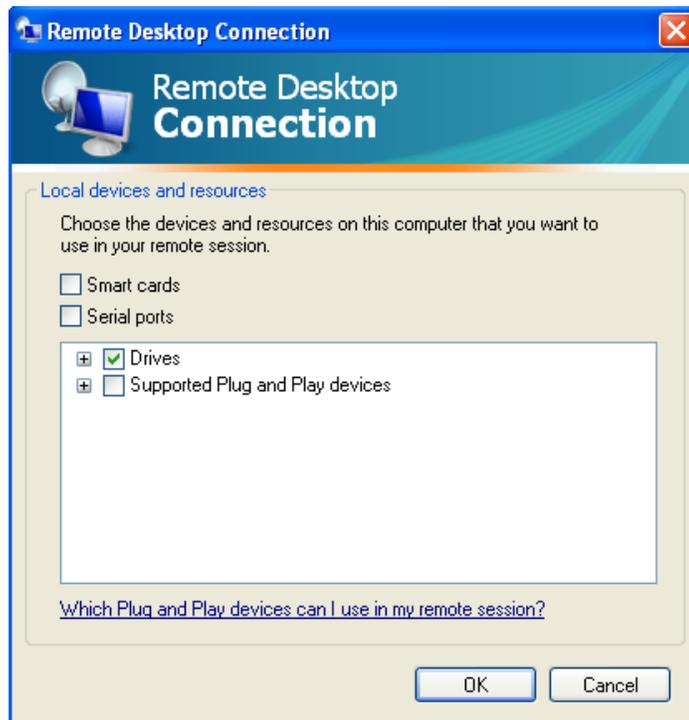


Figure 64. Remote Desktop Connection - Local Devices and Resources

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 61).
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 65. Remote Desktop Connection - Log On to Windows

15. Click **OK**. No password is required. 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 administrator password window appears.
17. 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.
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.

To 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**.

4.1.3 Changing the administrator password for a Touch Screen

By default, the administrator password for the Touch Screen terminal is not set (that is, it is blank). To limit access to the Touch Screen settings, you can change the administrator password.

To change the administrator password

1. Log in as administrator at the Touch Screen either at the Touch Screen terminal or by using Remote Desktop.

2. Select **Tools > Change Password**. The **Change User Password** window appears.
3. Enter your old password into the **Old password** text box.
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.

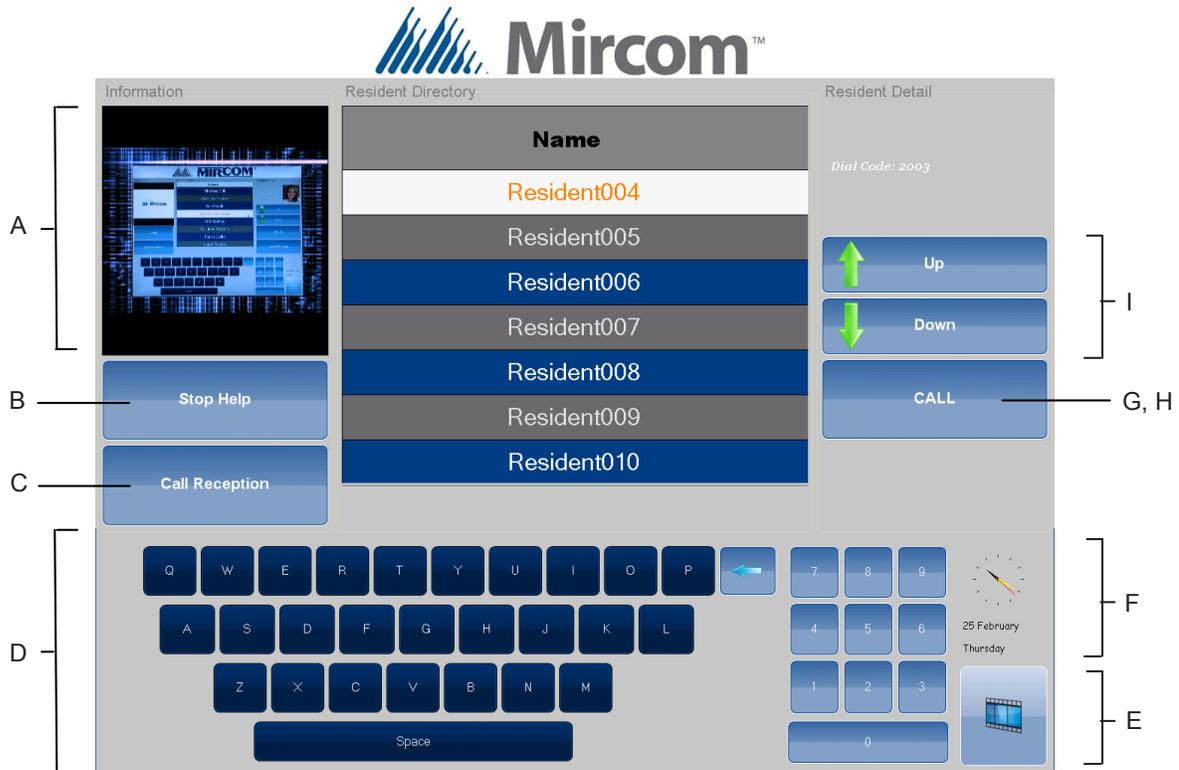
Note: In order to connect to a Touch Screen Master Node using the TX3 Configurator, the Admin Password setting in the TX3 Configurator must match the administrator password for the Touch Screen. See section 4.7.5 on page 128 for instructions on how to set Admin Password in the TX3 Configurator.

4.2 Configuring 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 66 shows the user interface configurable screen elements.

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



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 66. User Interface Screen Elements

To configure the Touch Screen appearance

1. Log in as administrator.

Note: In order to connect to a Touch Screen Master Node using the TX3 Configurator, the Admin Password setting in the TX3 Configurator must match the administrator password for the Touch Screen. See section 4.7.5 on page 128 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.

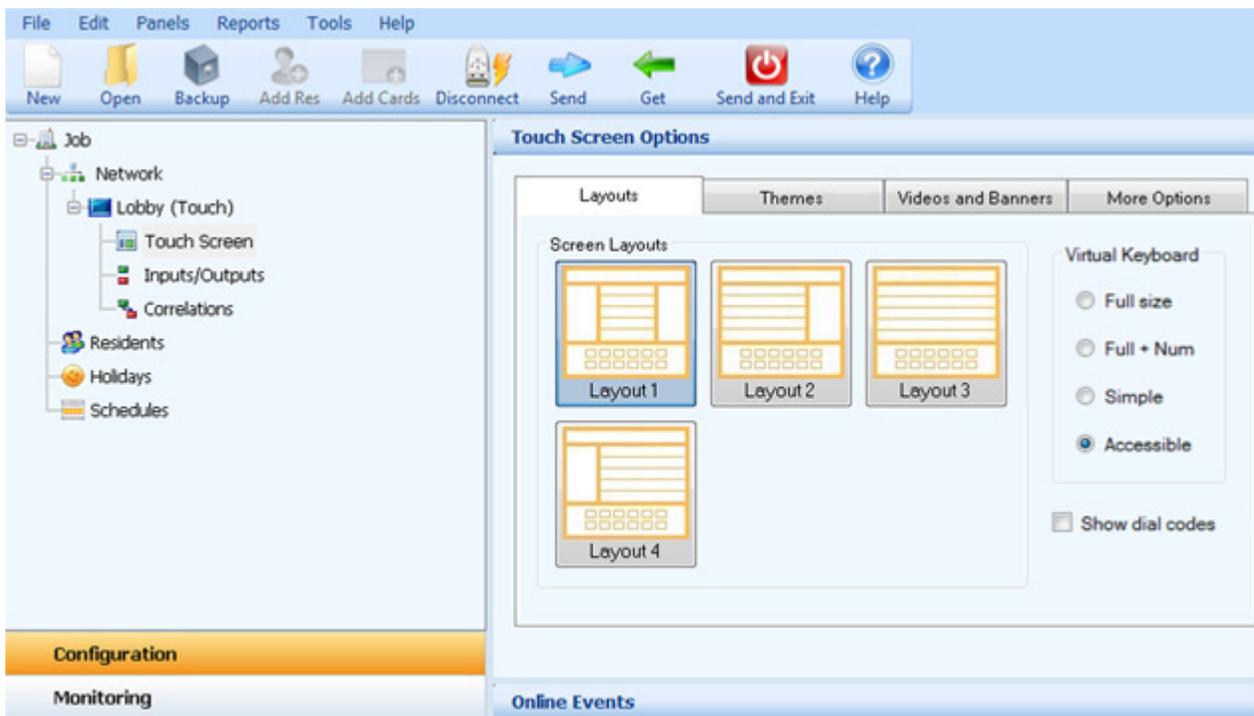


Figure 67. Touch Screen Appearance

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

4.3 Modifying 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.

To 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.

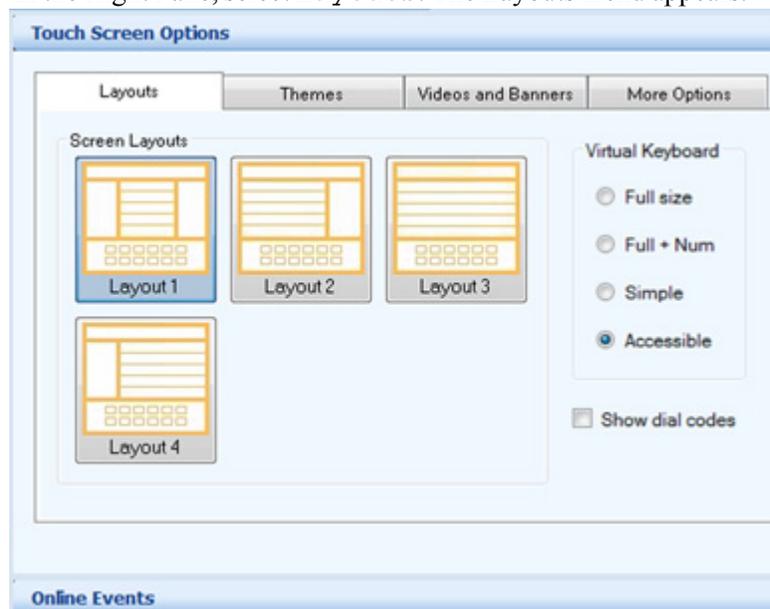


Figure 68. Touch Screen Layouts

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 Creating and Modifying Themes

Themes lets you set the screen font size, color and element attributes. Selections may be saved as `.t.hm` 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.

A test option lets you look at the selection without exiting the administrator mode.

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

To 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 69. 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.

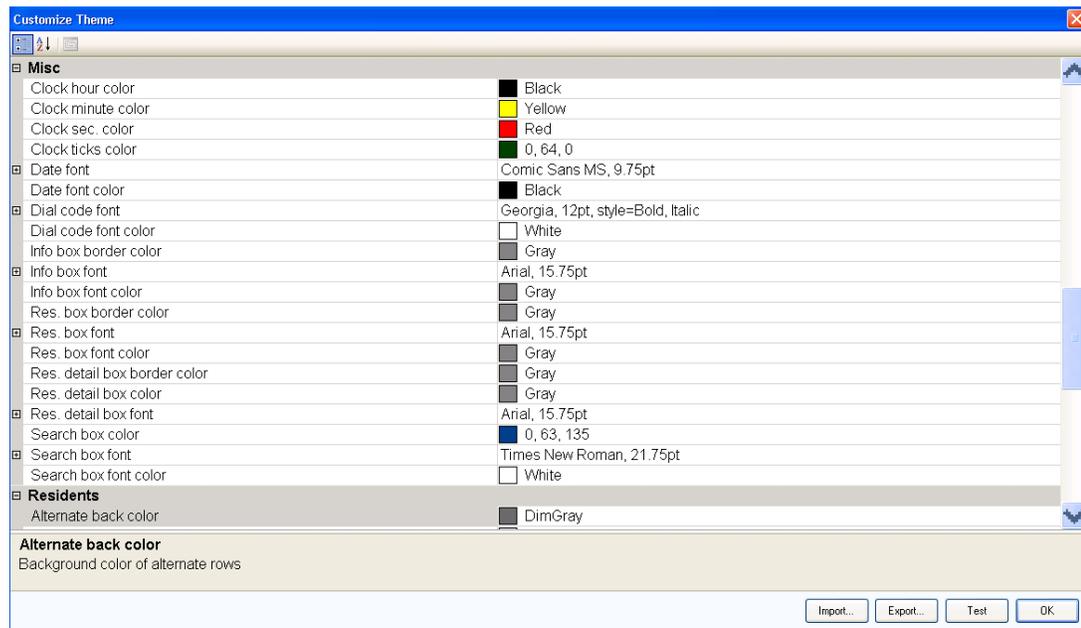


Figure 70. Touch Screen Customize Theme

6. Select the font size and color for the user interface elements. For a complete list of all the configurable user interface elements see the appendix.
7. Press `Import` to retrieve an existing theme or press `Export` to save the theme to a file.
8. Press `Test` to display the selection without exiting the administrator mode.
9. Press `OK` to apply the settings and return to the previous window.
10. Proceed with another configuration or press `Send` and `Exit` from the Tool Bar to apply the settings and exit the session.

4.5 Modifying 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 71 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`.

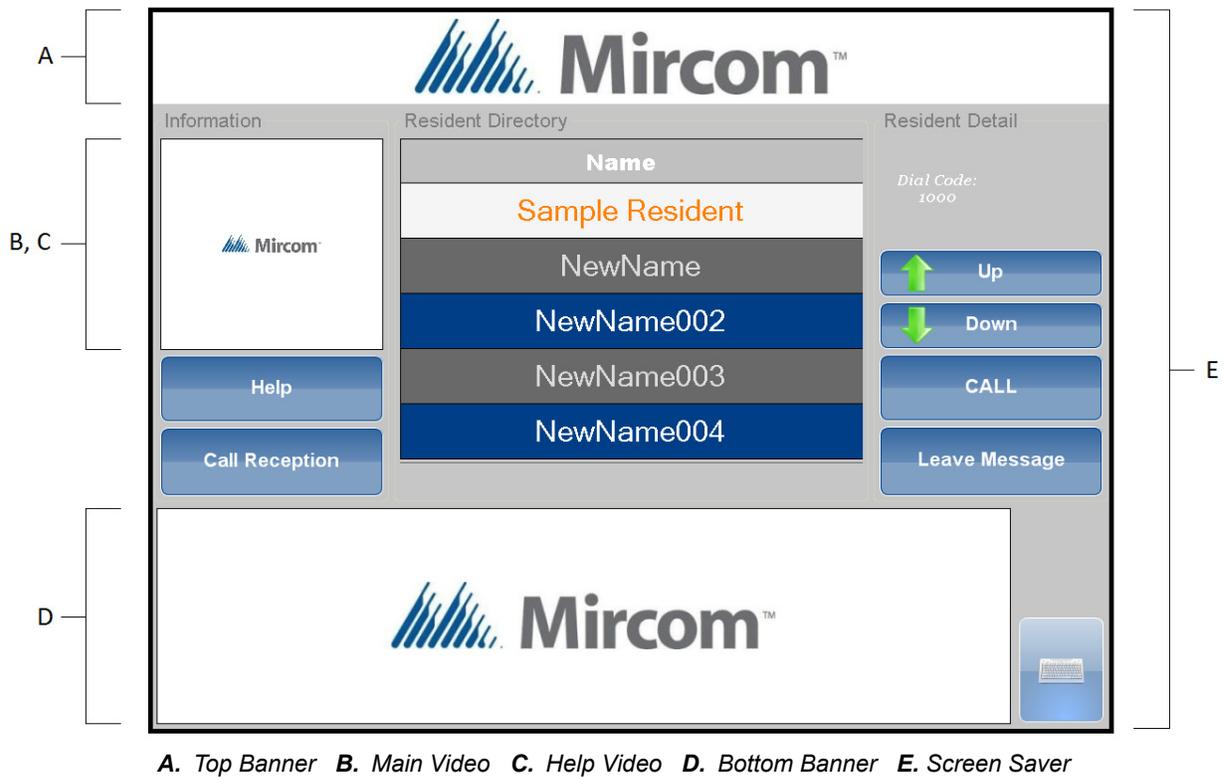


Figure 71. Touch Screen Videos and Banners

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

To 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.

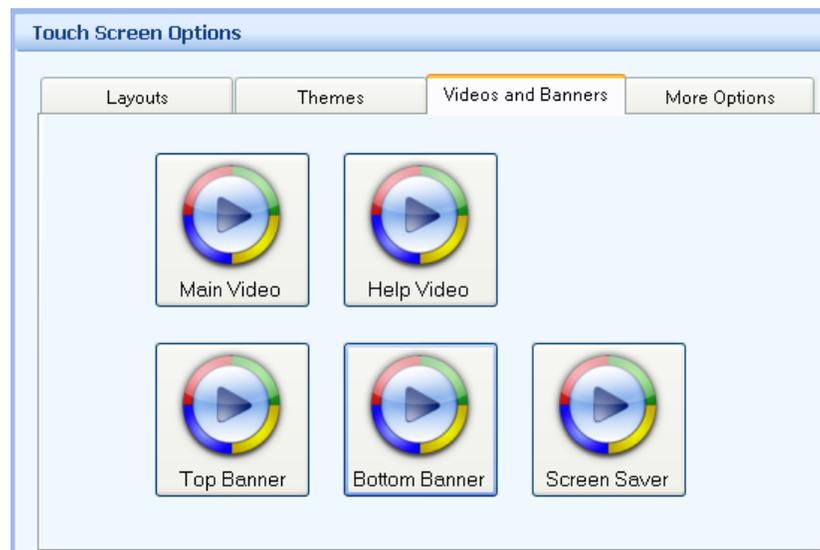


Figure 72. Touch Screen Videos and Banners

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

To set the Main Video

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



Figure 73. 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 on page 109.

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 on page 93.

To set the Help Video

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

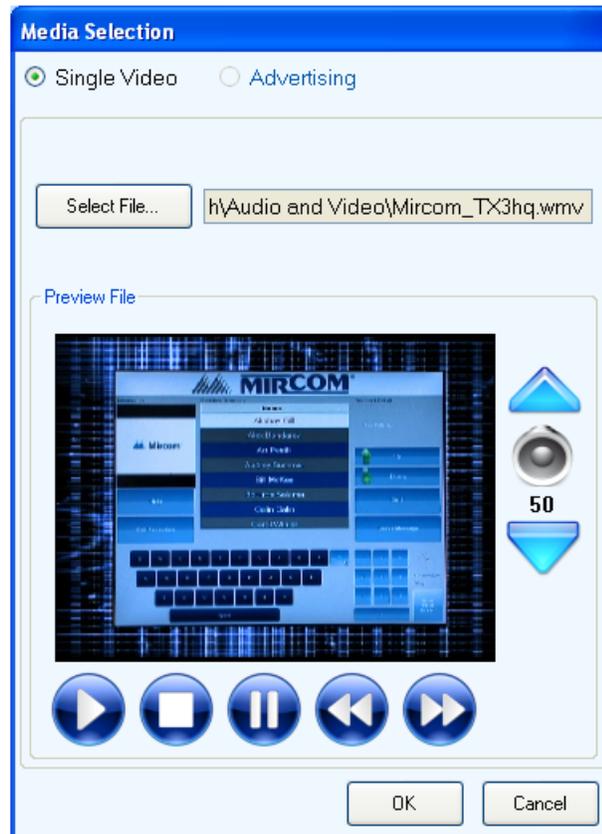


Figure 74. Touch Screen Help Video

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 on page 93.

To set the Top Banner

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

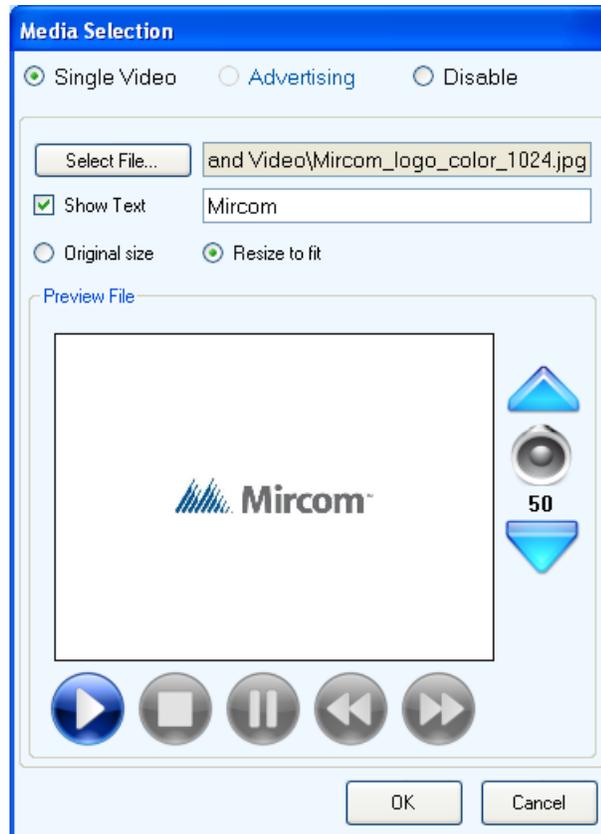


Figure 75. Touch Screen Top Banner

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 on page 94.

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.

To set the Bottom Banner

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



Figure 76. 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 on page 109.

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.

To set the Screen Saver

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

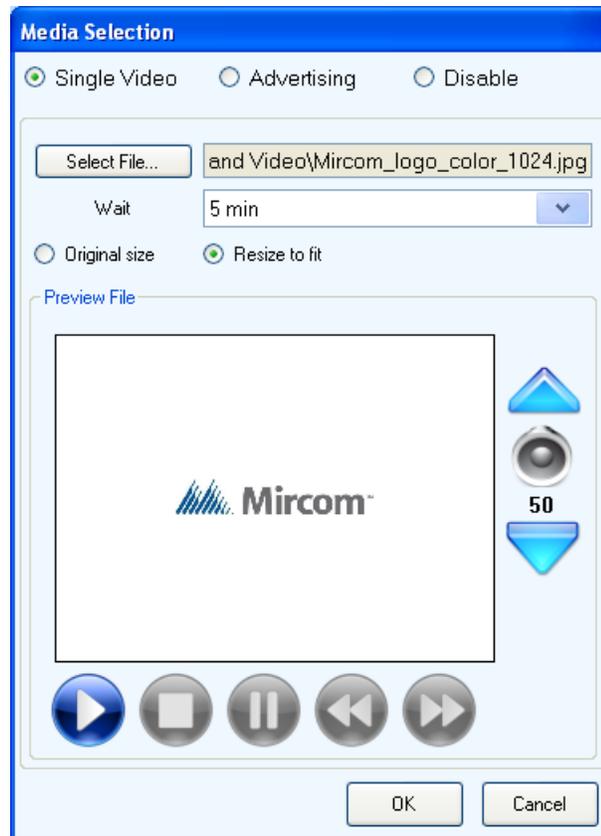


Figure 77. Screen Saver Options

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 on page 109.

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 Configuring the Advertising Module

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)

To enable the Advertising Module

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

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

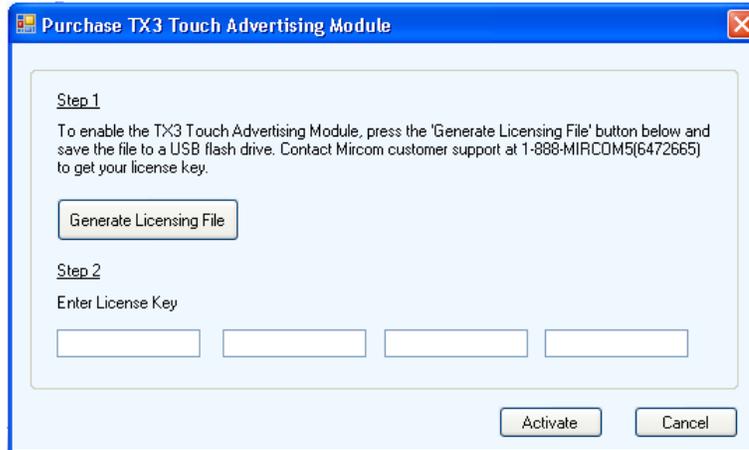


Figure 78. Activate Advertising Module

2. Press **Generate Licensing File**. The **Save Advertising Licensing File** window will appear.
3. Select a location to save the file and press **Save**.

Note: Remember where the licensing file is saved.

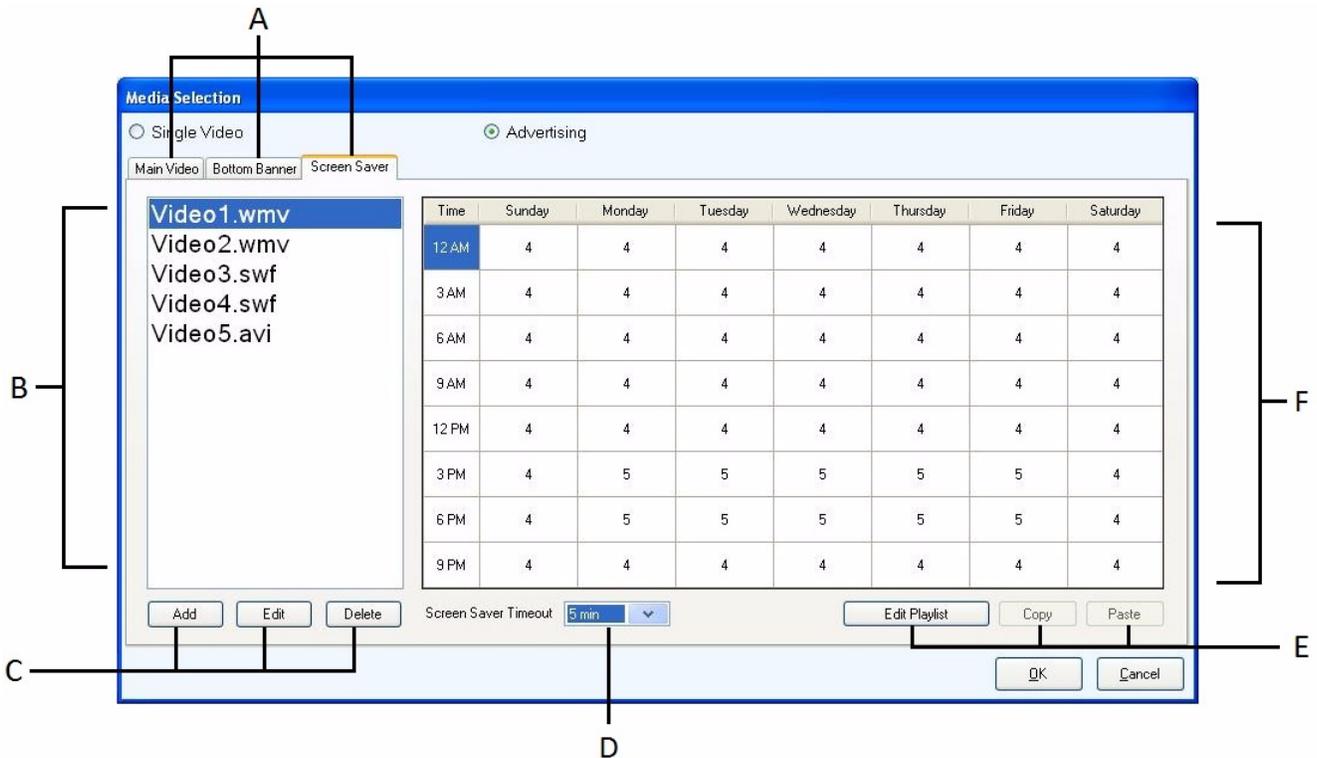
4. Once the licensing file has been saved contact customer support at the number provided on the **Purchase TX3 Touch Advertising Module** window or from the information provided in section 1.9 on page 25.
5. Once customer support has been contacted a license key will be generated and provided to you. 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.

To configure the advertising Module

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 79. 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.

To 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 80. Adding a Media File Part 1

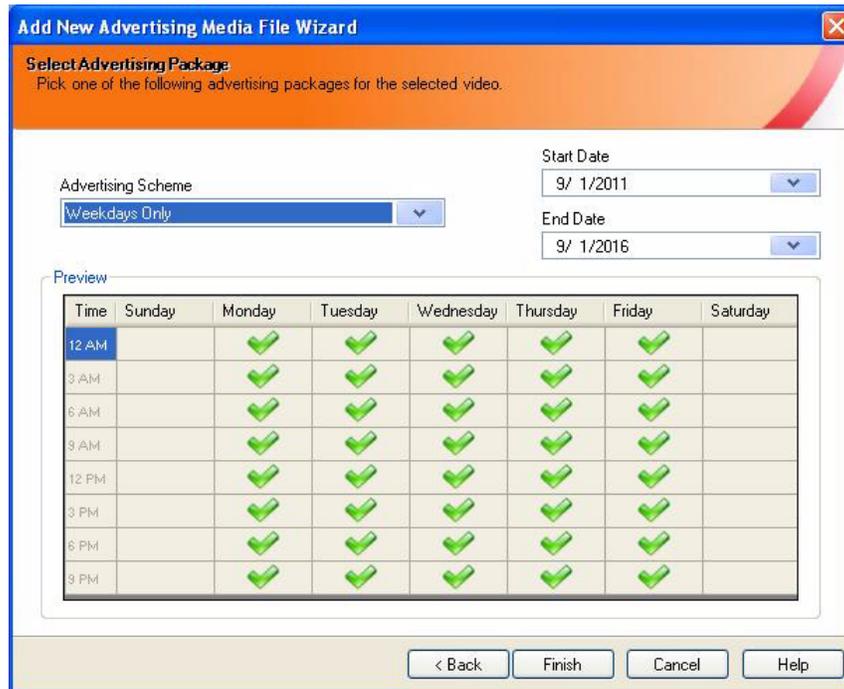
2. Press **Select File** to select a media file from the directory. If an image or flash file format is chosen then options to keep the original size or resize the image or object to fit within the display will appear. Select the appropriate option.

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 on page 97 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.



Add New Advertising Media File Wizard

Select Advertising Package
Pick one of the following advertising packages for the selected video.

Advertising Scheme: **Weekdays Only**

Start Date: 9/ 1/2011

End Date: 9/ 1/2016

Preview

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

< Back Finish Cancel Help

Figure 81. 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.

To 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 82. 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.

To 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.

To 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:

Figure 83. 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 84. 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.

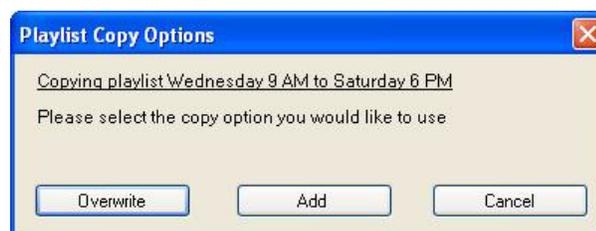


Figure 85. Playlist Copy Options

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.

To 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.

To print an Advertising Report

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

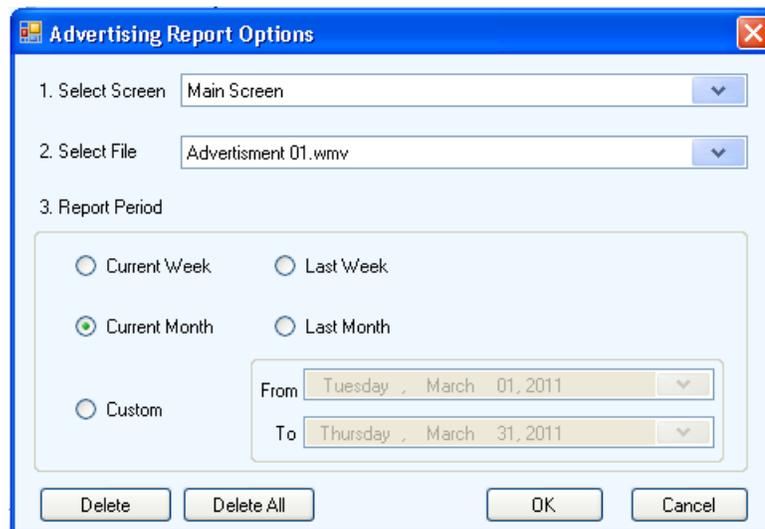


Figure 86. Advertising Report Options

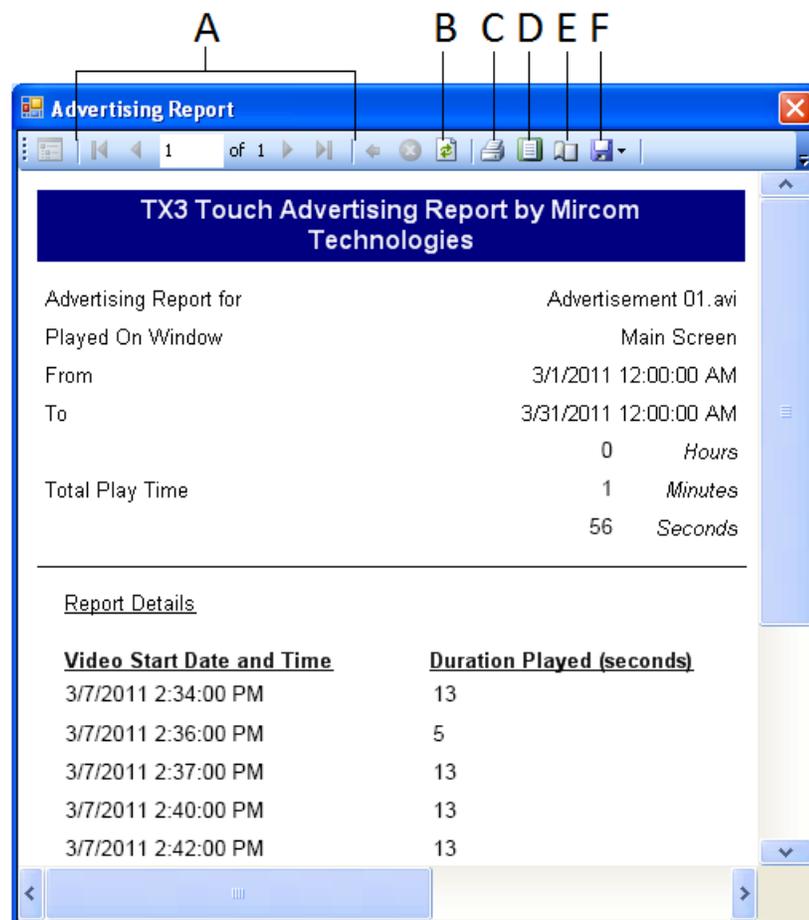
- Provide the following information:

Select Screen. Select the screen that the advertisement plays on.

Select 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.

3. 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.
4. 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.
5. 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 87. Advertising Report Preview Screen

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

4.7 Modifying 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.

The Touch Screen has a built-in lobby control unit (model TX3-2000-8) with a unique ID address. This must match the assigned Touch Screen panel address. Every lobby control unit and Touch Screen on the same network has a unique ID address.

To 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. Some of the options available depend on how you log in to the Touch Screen. When you log in using the TX3 Configurator software you see the screen shown in Figure 88 and you have access to the Admin Password setting.

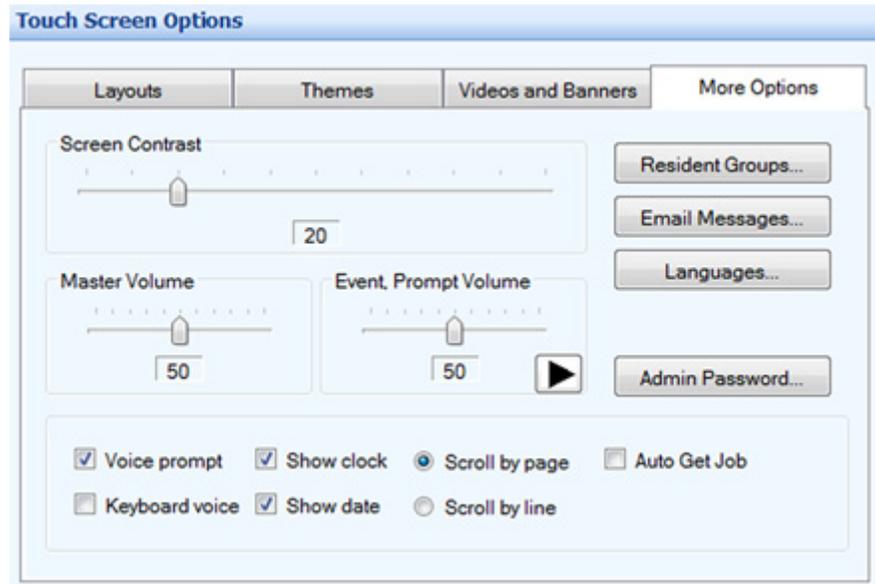


Figure 88. Touch Screen More Options when you log in with the TX3 Configurator Software

When you log in using Remote Desktop or at the Touch Screen terminal, you see the screen shown in Figure 89 and have access to the Set Date and Time setting.

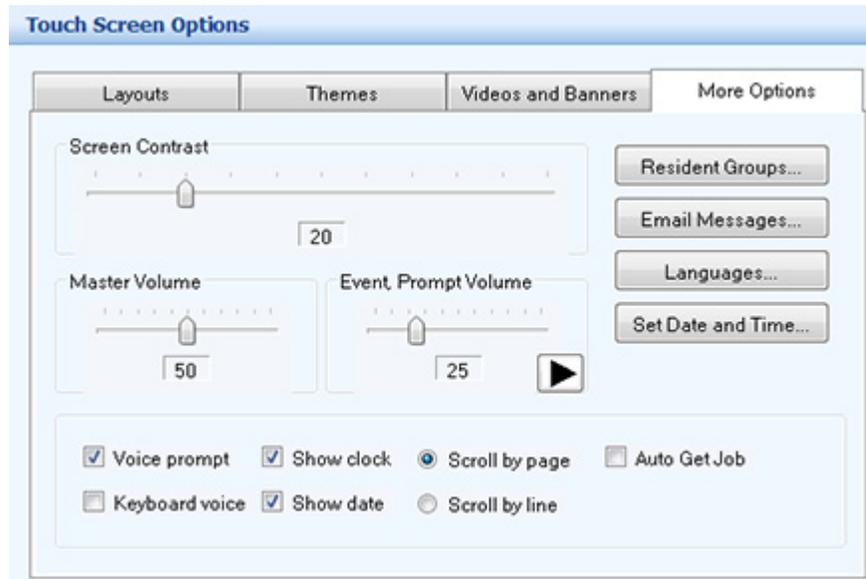


Figure 89. Touch Screen More Options when you log in with Remote Desktop or at the Touch Screen terminal

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 SIP calls.

Event Prompt Volume. Defines the volume of all notifications as a percentage of the Master Volume. Select the play button to preview the volume level.

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 Ethernet Slave 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 or by connecting to the Touch Screen by Remote Desktop.

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 4.7.1, 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 Setting the Date and Time

This option sets the date and time at the Touch Screen terminal. To access this option, log in to the Touch Screen at the terminal or log in to the Touch Screen with Remote Desktop.

To set the date and time of the Touch Screen

1. From the Touch Screen's **More Options** tab, select **Set Date and Time**. The **Set Touchscreen Time and Date** window appears.



Figure 90. Set Touchscreen Time and Date

2. In the **Set Date** box choose the appropriate date. In the **Set Time** boxes choose the hour, minute and AM or PM.

3. Press **OK** to apply the settings and exit the Set Touchscreen Time and Date window session or press **Cancel** to exit without saving the information.
4. Proceed with another configuration or press **Send and Exit** from the Tool Bar to apply the settings and exit the session.

4.7.2 Configuring 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.

To configure resident groups

1. From the Touch Screen's **More Options** tab, select **Resident Groups**. The Resident Groups window appears.

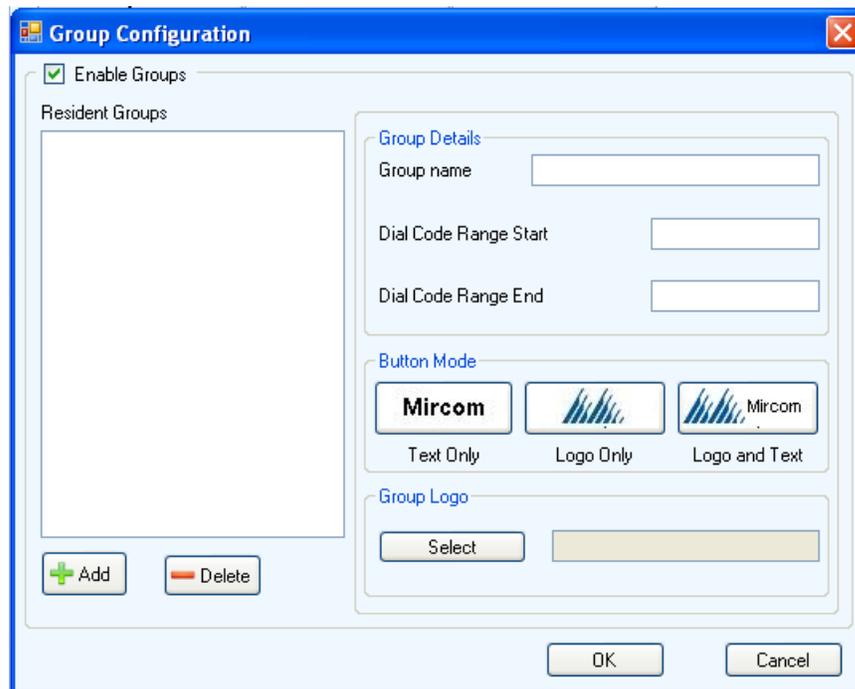


Figure 91. Group Configuration

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 Configuring Email Messages

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

To configure email messages

1. From the Touch Screen's **More Options** tab, click **Email Messages**.

The Email Messages window appears.

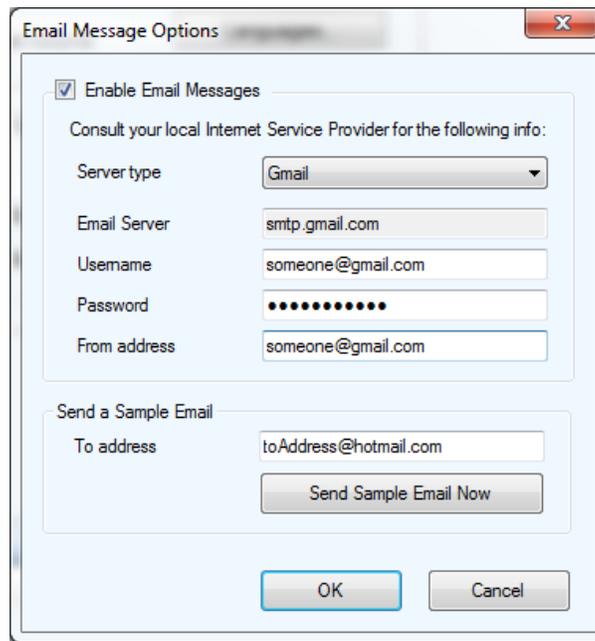


Figure 92. Touch Screen Email Messages

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 Setting Language Options

1. From the Touch Screen's **More Options** tab, select **Languages**. The Language Editor window appears.

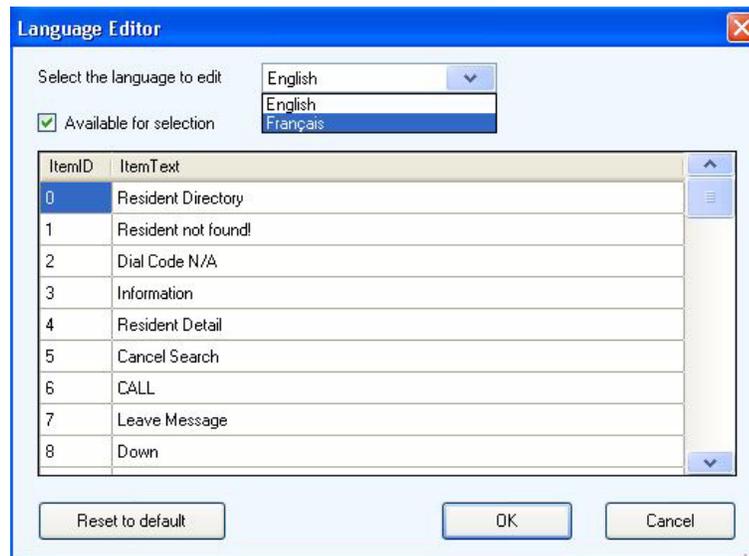


Figure 93. Language Editor

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.

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



Figure 94. Language Selection

- 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 94. 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 Setting the Admin Password

The value stored in `Admin Password` is used by the TX3 Configurator to connect to a Touch Screen Master Node. This value must match the administrator password for the Touch Screen. Specifically, whenever you change the administrator password on a Touch Screen Master Node, you must make the same change to `Admin Password` for that Touch Screen Master Node in the TX3 Configurator.

Note: This option is **only** applicable for configuring Touch Screen Master Nodes with the TX3 Configurator software.

To set the Admin Password value

- From the Touch Screen's `More Options` tab, click `Admin Password`.

2. Enter the administrator password for the Touch Screen in the text box.
3. Click OK.

Information on how to change the administrator password for a Touch Screen can be found in section 4.1.3 on page 89.

4.8 Calibrating 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 Calibrating 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.

To enter the PenMount Control Panel

1. From the TX3 Touch software log in as administrator.
2. From the menu bar select `File > Shut Down > Exit to Windows`. Press `Yes` to confirm.
3. Press twice on the `Desktop` icon in the upper left corner of the window.



Figure 95. Desktop Icon

4. Press twice on the `PenMount Control Panel` icon.

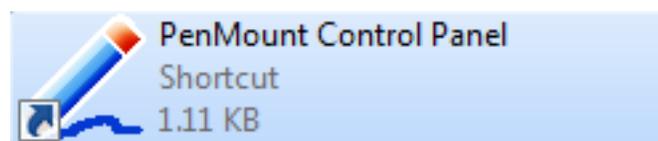


Figure 96. PenMount Control Panel Icon

The PenMount Control Panel appears.

To calibrate the Touch Screen

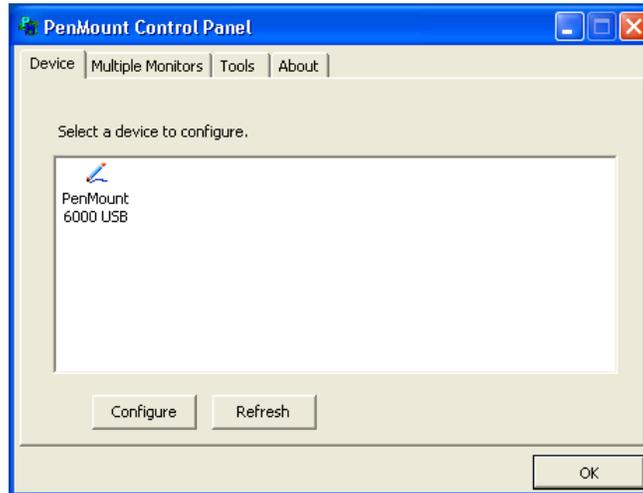


Figure 97. PenMount Control Panel

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.

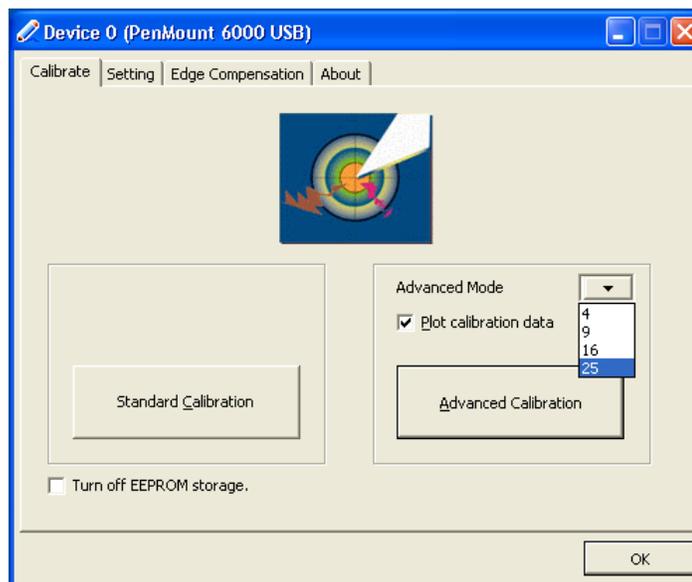


Figure 98. PenMount Device Calibration

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.

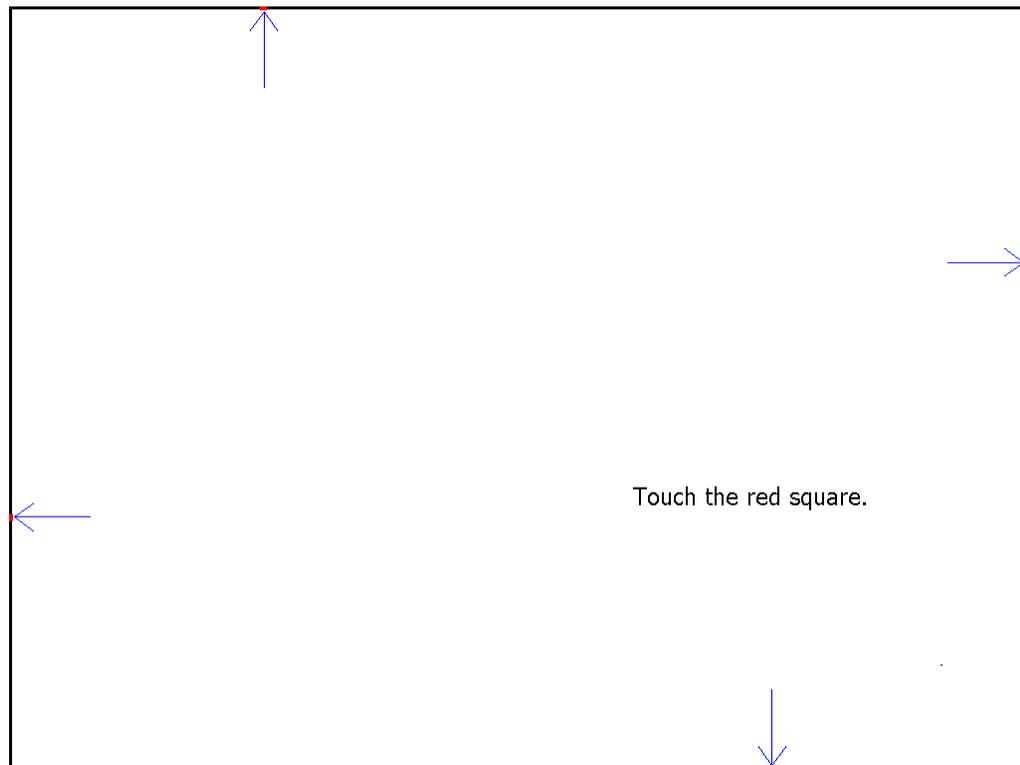


Figure 99. Standard Calibration

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.

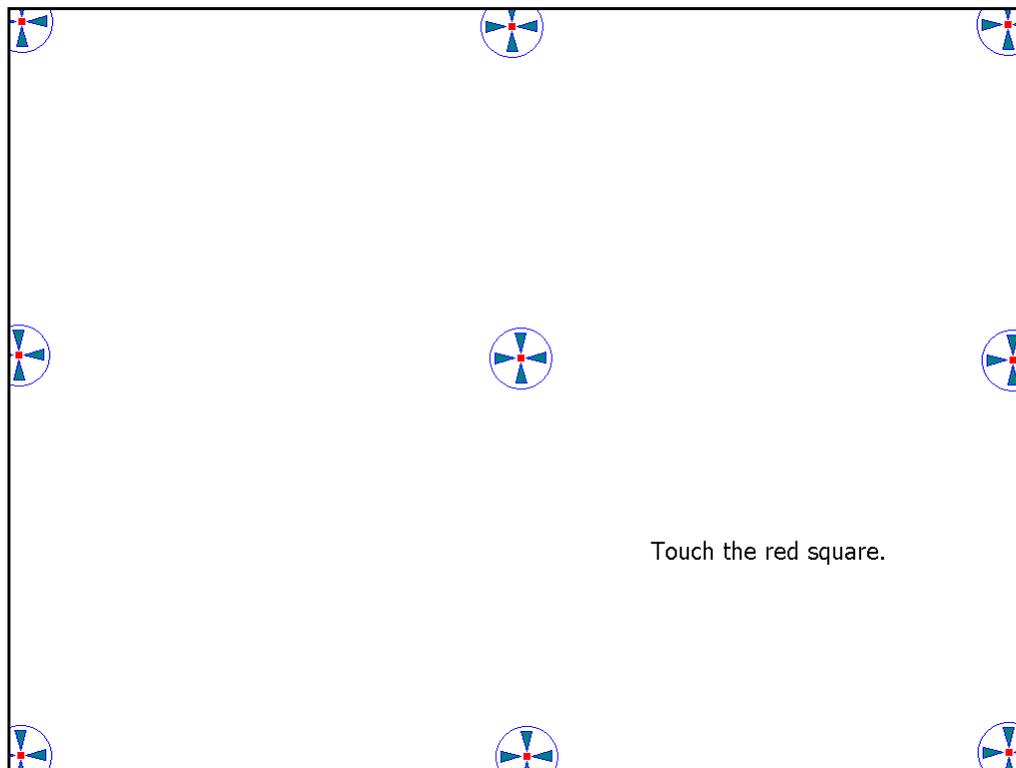


Figure 100. Advanced Calibration (9 Points)

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 Calibrating 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.

To enter the MT 7 Software Control Panel

1. From the TX3 Touch software log in as administrator.
2. From the menu bar select File > Shut Down > Exit to Windows. Press Yes to confirm.
3. Press twice on the Desktop icon in the upper left corner of the window.



Figure 101. Desktop Icon

4. Press twice on the 3M Touch Calibration folder.
5. In the 3M Touch Calibration folder, press twice on the Control Panel icon.

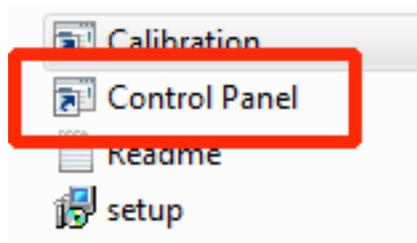


Figure 102. Calibration Control Panel

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

If the Problem with Shortcut window does not appear, then go to *To calibrate the Touch Screen* on page 130.



Figure 103. Problem with Shortcut

To install the MT 7 Software Control Panel

- a. Connect a USB mouse to the Touch Screen.

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

- b. Press twice on the setup icon.

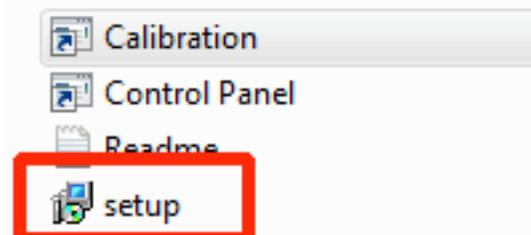


Figure 104. setup icon

The MT for Windows Setup Wizard appears.



Figure 105. MT for Windows Setup Wizard

- c. Scroll to the bottom of the agreement, select I accept the agreement, and then click Next.



Figure 106. License Agreement

- d. Follow the instructions to install the calibration software.

Note: Do not change any installation options.

- e. After the installation is complete, press twice on the Control Panel icon.
- f. Go to *To calibrate the Touch Screen* below.

To calibrate the Touch Screen

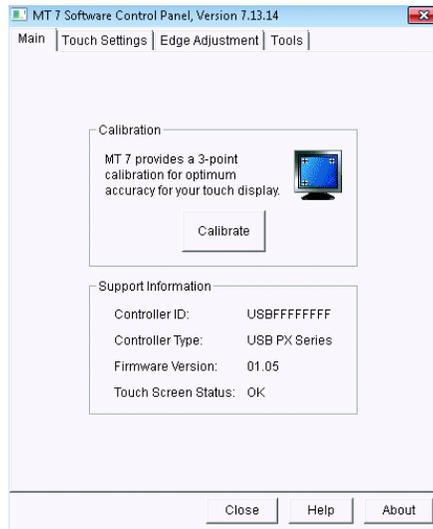


Figure 107. MT 7 Software Control Panel

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 108. 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.

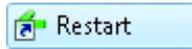


Figure 109. Restart Icon

5 Configuring a Telephone Access System Panel

Touch Screen and Configurator let you access, add and modify Telephone Access System panels. Once you connect to a building panel, you can begin configuration.

This chapter explains

- Configuring a Telephone Access System Panel
- Configuring Inputs
- Configuring Outputs
- Establishing Correlations
- Adding or Modifying Residents
- Setting up SIP (VOIP)

5.1 Configuring 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

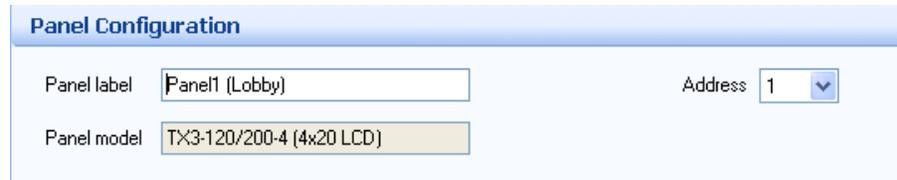
For information about the installation of the Telephone Access Systems, refer to the manuals shipped with the system and on the Mircom website (www.mircom.com).

5.1.1 Labelling a Panel

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

To label a panel

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



The screenshot shows a 'Panel Configuration' dialog box. It has a title bar with the text 'Panel Configuration'. Below the title bar, there are three input fields. The first is 'Panel label' with a text box containing 'Panel1 (Lobby)'. The second is 'Panel model' with a text box containing 'TX3-120/200-4 (4x20 LCD)'. The third is 'Address' with a dropdown menu showing '1'.

Figure 110. 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.

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 Configuring Messaging on the Configurator

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.

To configure messages

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

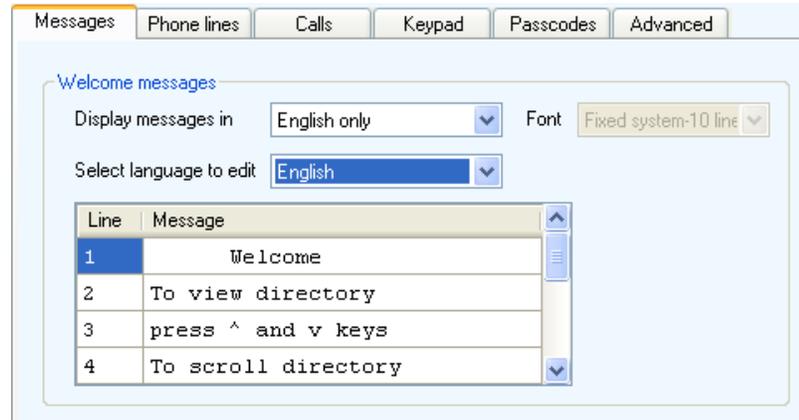


Figure 111. Panel Configuration - Messages

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.

5.1.3 Configuring Phone Lines and Guard Phone

The Phone Lines window lets you select the resident's telephone line type as 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.

To configure phone lines

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

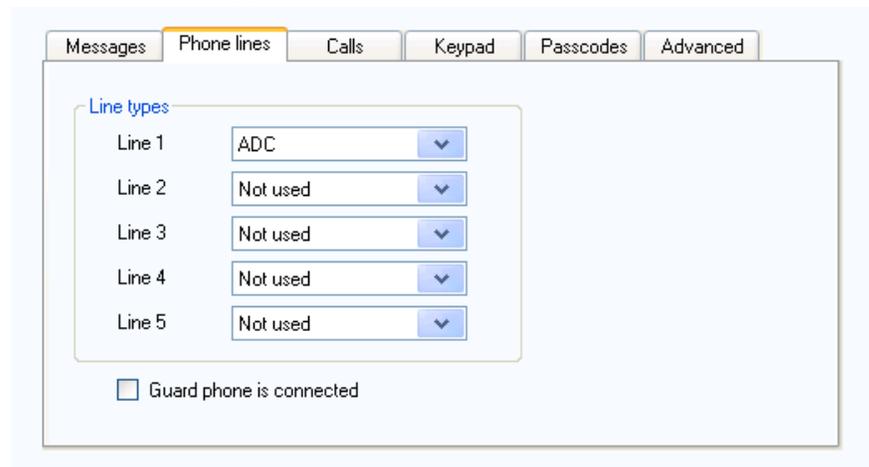


Figure 112. Panel Configuration - Phone Lines

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.

5.1.4 Configuring Calls

Configuring calls lets you specify the call duration, number of rings and call scheduling. Speaker volume for the panel is controlled from `Panel Configuration`. Touch Screen speaker volume is controlled from `Touch Screen Options` (see section 4.7 on page 120).

To configure calls

1. Select **Ca11s** from the Panel Configuration window. The Calls window appears.

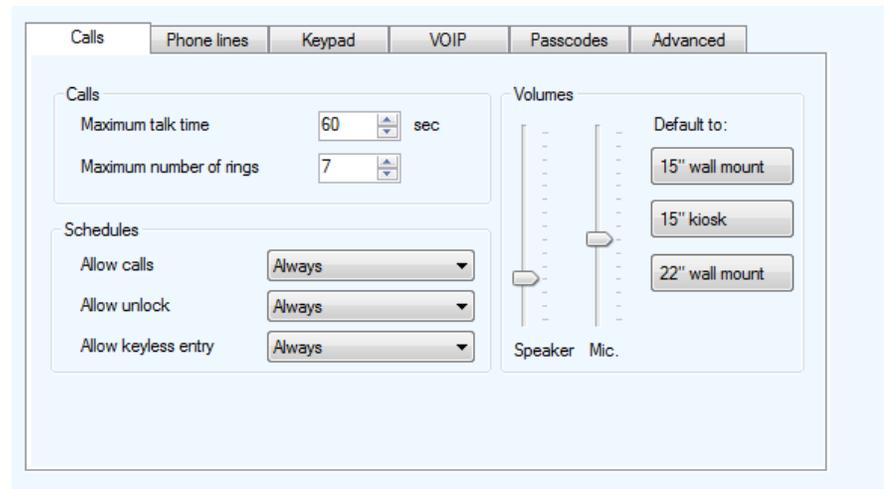


Figure 113. Panel Configuration - Calls

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 numbers 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.

Speaker volume. Specify the panel speaker call volume.

Microphone volume. Specify the panel or Touch Screen microphone call sensitivity.

Note: The speaker and microphone volumes are used only for telephone calls (not SIP calls). For volume for the videos, event prompts and SIP calls see section 4.7 on page 120.

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.

5.1.5 Optimal Call Volume Settings

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

Note: The speaker and microphone volumes are used only for telephone calls, not SIP calls. For volume for the videos, event prompts and SIP calls see section 4.7 on page 120.

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

5.1.6 Configuring the Keypad

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

To configure the keypad

1. Select Keypad from the Panel Configuration window.

The Keypad window appears.

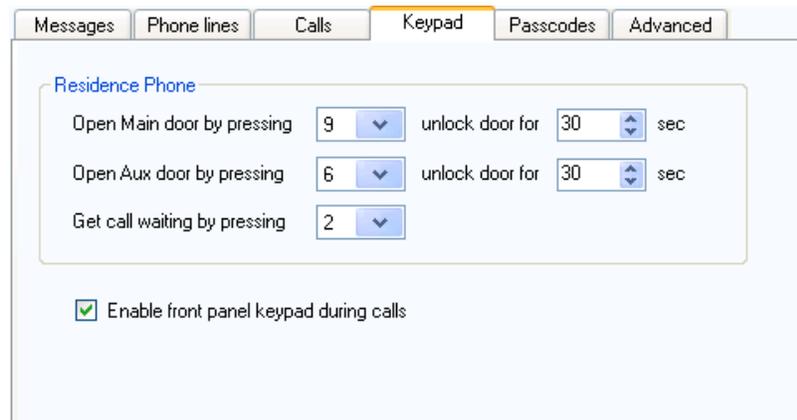


Figure 114. Panel Configuration - Keypad

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) and do not select the number that you are using for **Get call waiting by pressing** below.

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) and do not select the number that you are using for **Get call waiting by pressing** below.

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.

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 Configuring 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.

To configure the panel passcode

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

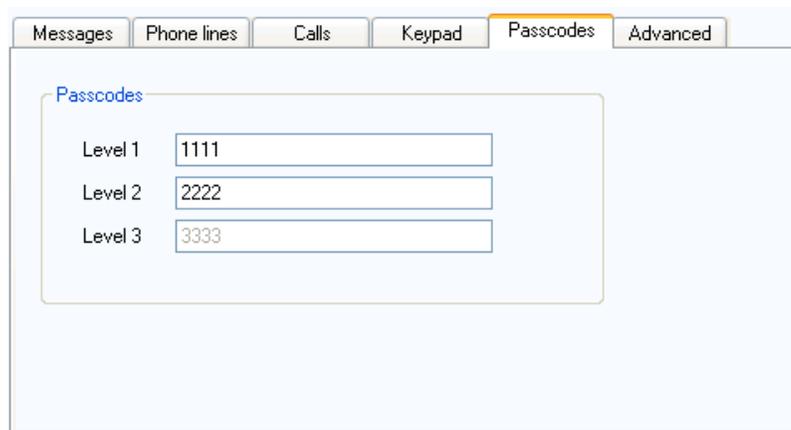


Figure 115. Panel Configuration - Passcodes

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 on page 260). 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.

5.1.8 Configuring 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.

To configure advanced functions

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

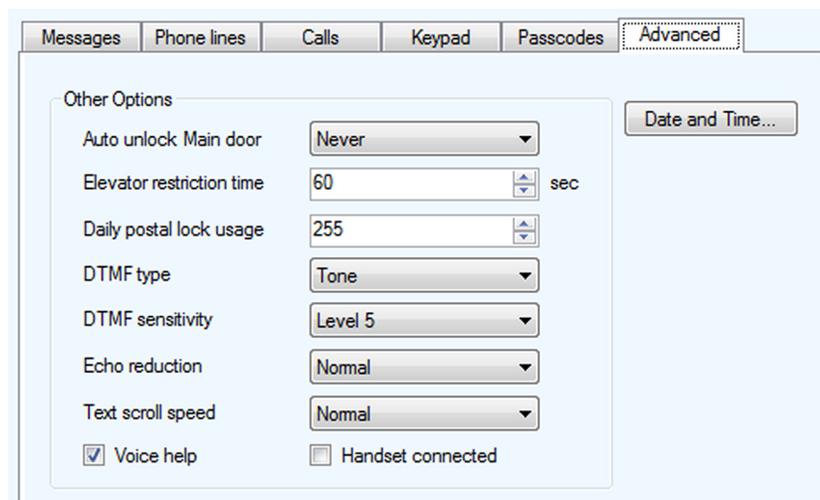


Figure 116. Panel Configuration - Advanced

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 Chapter 10 on page 231.

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. Specify the signal type as tone.

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.

To set the date and time

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

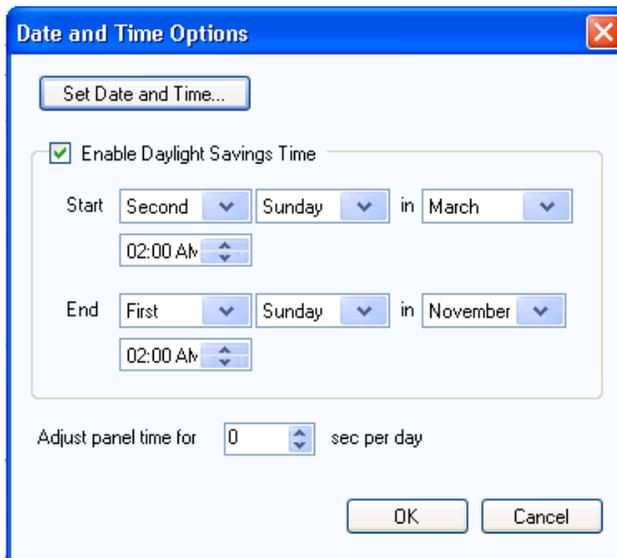


Figure 117. Date and Time Options

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.

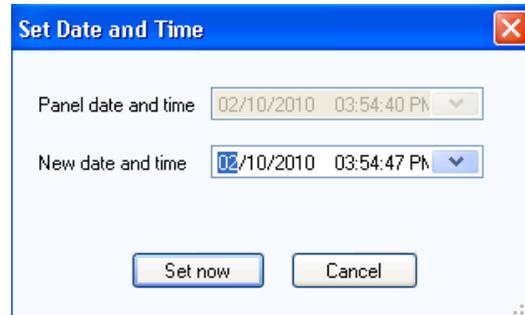


Figure 118. Set New Date and Time

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 Configuring 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.

To configure inputs

1. Select **Inputs/Outputs**. The **Inputs/Outputs Configuration** window appears.

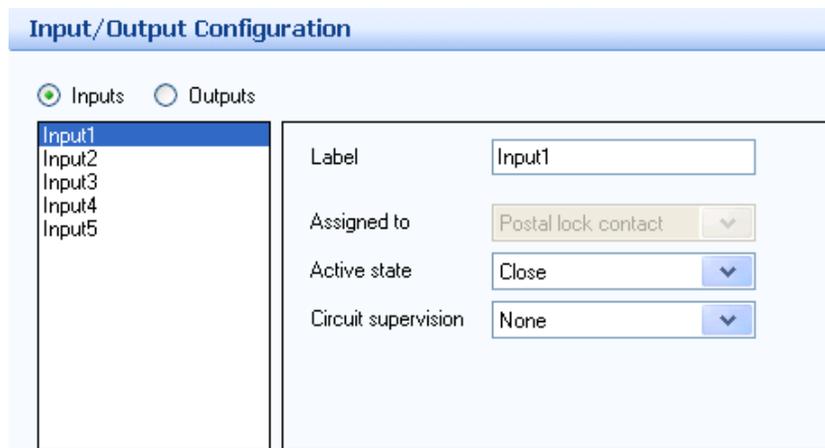


Figure 119. Input Configuration

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 Configuring 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.

To configure outputs

1. Select **Inputs/Outputs**. The **Inputs/Outputs Configuration** window appears.

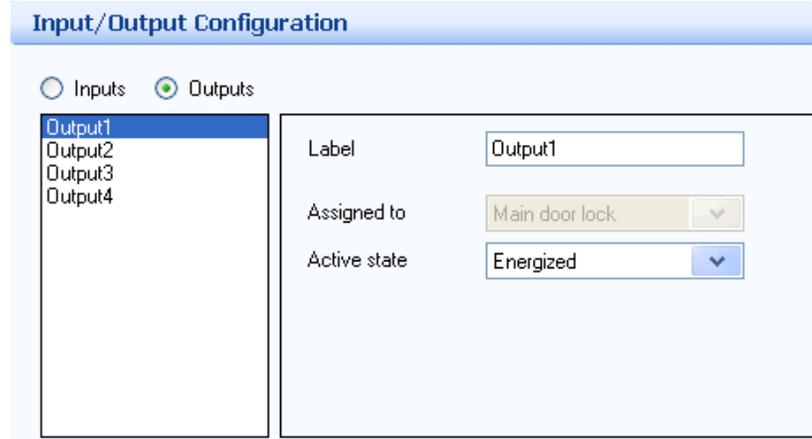


Figure 120. Output Configuration

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 Establishing 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).

To create a correlation

1. Select **Network > Panel > Correlations**. The Correlations Configuration window appears in the Right Pane.



Figure 121. 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 Master 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 Master Node on the same RS-485 network, but only one Touch Screen Master Node can have this option selected.

- Click Add. The Add Correlation window appears.

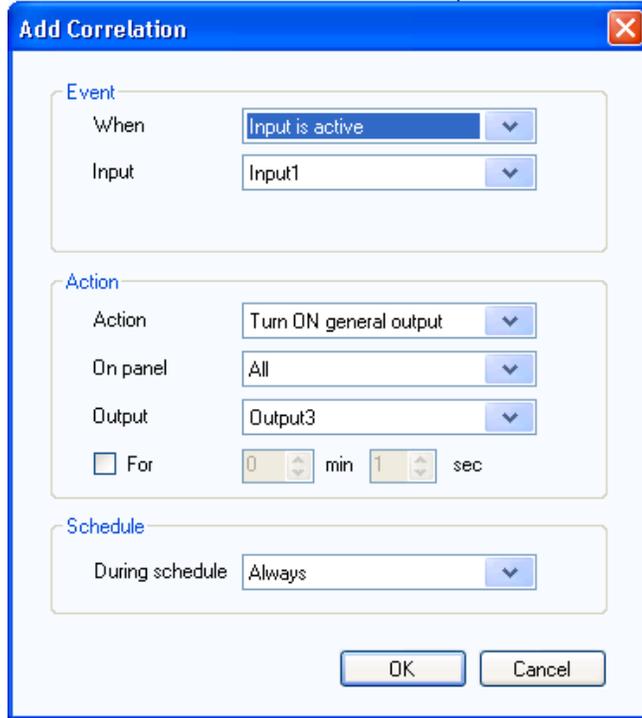


Figure 122. Add Correlation

- 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 on page 149.

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

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 Master 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 Master Nodes by default. If you plan on using the `All` or `Custom` correlation options, select the `Route IP Correlations` checkbox on one of the Master Nodes. See section 5.4 on page 153.

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.

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

To 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.

To 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.

To 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 Adding or Modifying 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.

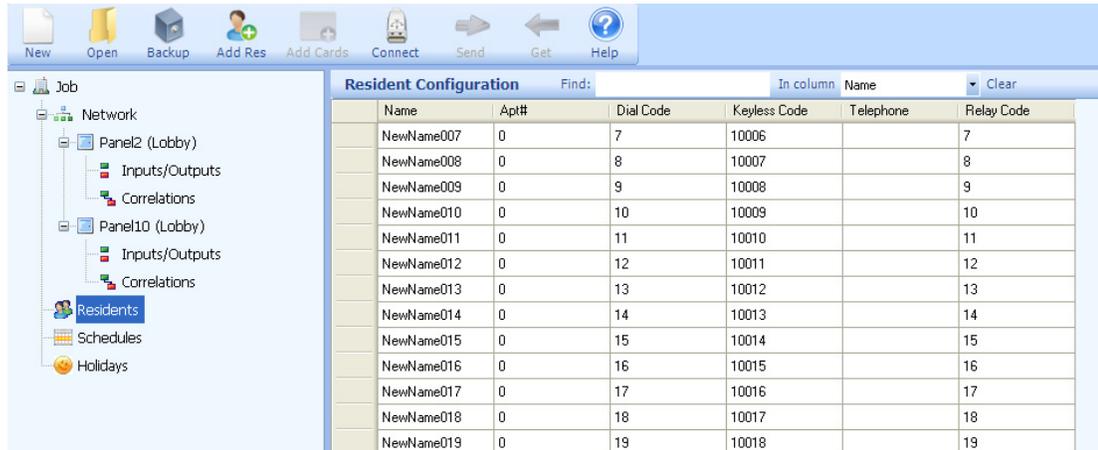
The resident list provides browsing and quick searching capabilities of resident information and displays the complete residential list when **Residents** is selected from the Job tree. Clicking the column header sorts the list by that column in either ascending or descending order.

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 127.

To find a resident

1. Select **Residents** from the Job tree. The Resident Configuration list appears in the Right Pane.



Name	Apt#	Dial Code	Keyless Code	Telephone	Relay Code
NewName007	0	7	10006		7
NewName008	0	8	10007		8
NewName009	0	9	10008		9
NewName010	0	10	10009		10
NewName011	0	11	10010		11
NewName012	0	12	10011		12
NewName013	0	13	10012		13
NewName014	0	14	10013		14
NewName015	0	15	10014		15
NewName016	0	16	10015		16
NewName017	0	17	10016		17
NewName018	0	18	10017		18
NewName019	0	19	10018		19

Figure 123. 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.

To add a resident:

1. Select **Residents** from the Job tree. The Resident Configuration list appears in the Right Pane (see Figure 123).

2. Select **Add Residents** from the Menu Bar or right click on the Resident Configuration list. The Add Residents window appears.

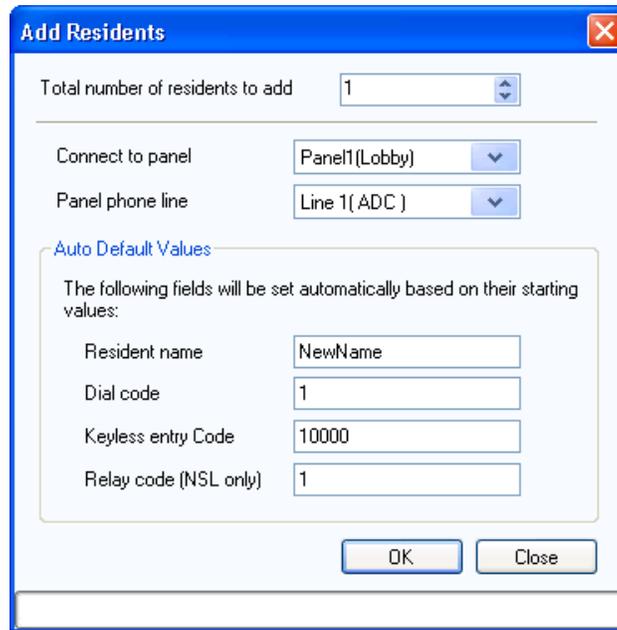


Figure 124. Add Residents

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.

Dial code. The dial code is set automatically for each resident based on the initial starting value.

Keyless entry code. Enter zero to disable the keyless entry code for the new residents(s). Enter a value other than zero to enable the keyless entry code for the new residents(s). 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.

Relay code (NSL only). The NSL relay code is set automatically for each resident based on the initial starting value.

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.

To edit a resident's information

1. Select `Residents` from the Job tree. The Resident Configuration window appears (Figure 123).

Note: You can edit multiple residents at the same time by selecting multiple residents then opening the Resident Details window. 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.

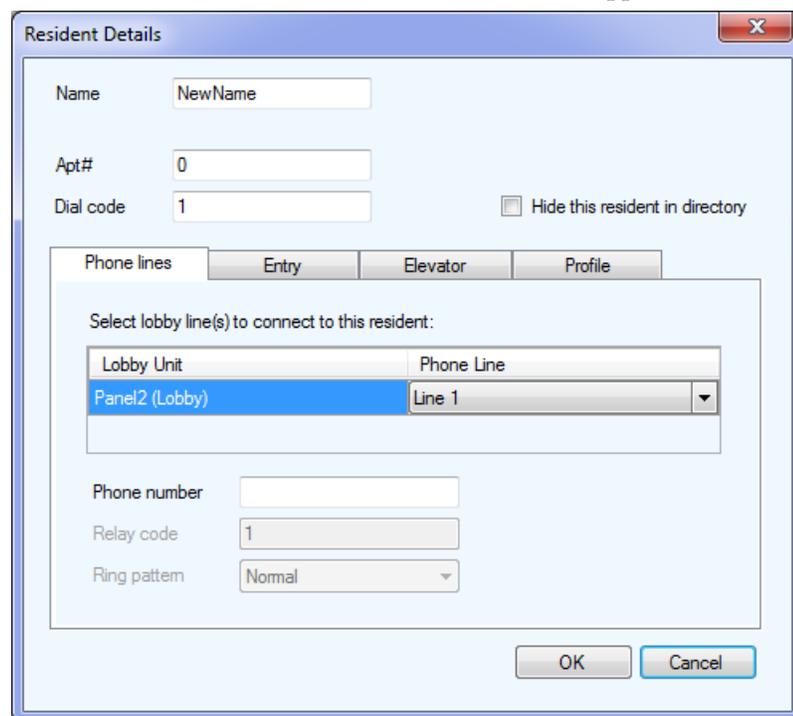


Figure 125. Resident Details

3. Provide the following information:

Name. Enter the resident's name.

Dial code. Enter the resident's dial code.

Apt#. Enter the apartment or suite number.

Hide from directory. Check this box to hide the resident's name from the panel directory.

4. Select **Phone Lines** and provide the following information to determine which panels will have telephone access:

Lobby Unit. Each lobby unit is shown in a list.

Phone Line. From the list select the telephone line for each lobby unit (NSL, ADC or not connected).

Phone number. Provide the resident's phone number. This selection is available for ADC lines only. Type a comma (,) for a 1 second pause, and type a semi-colon (;) for a 3 second pause.

On the TX3 Touch Screen, press the Shift key to access the semi-colon key.

Relay code. Enter the NSL unit relay code associated with the resident. This selection is available for NSL lines only.

Ring pattern. Select the resident's phone ring pattern from the list. Each panel may have its own unique ring. This selection is available for NSL lines only.

Note: If the telephone entry system is connected to a PBX system input the telephone number as normal followed by a comma for a one second pause with the extension afterwards. If you need to dial 9 to obtain an outside line simply input it before the telephone number.

5. Select **Entry**. The **Entry** window appears.

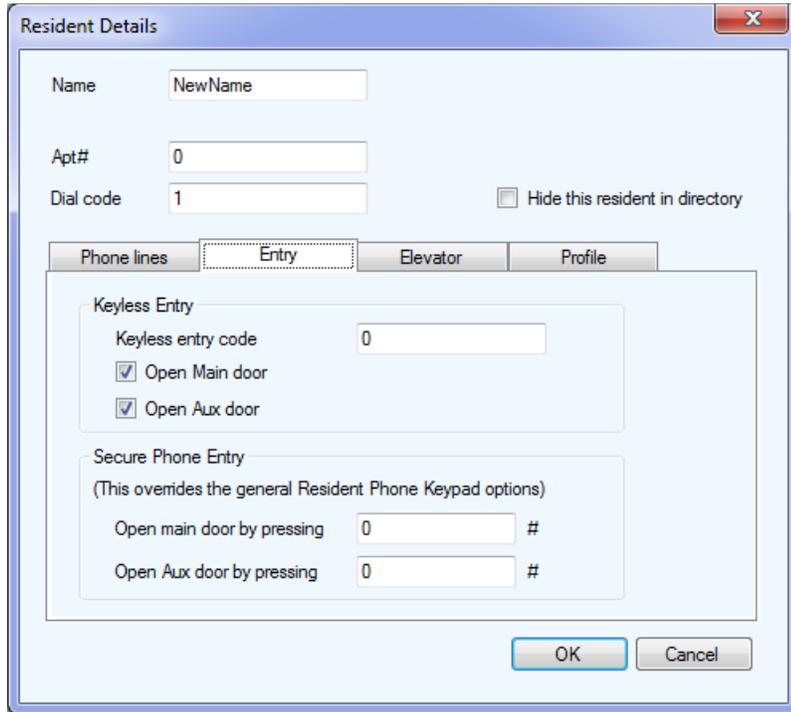


Figure 126. Resident Details - Keyless Entry

6. Provide the following information to enable the use of 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 box opens the main door when the resident enters their keyless entry code.

Open Aux door. Selecting this box opens the auxiliary door when the resident enters their keyless entry code.

Note: By default both the main and auxiliary doors are selected.

Open main door by pressing. Enter a series of up to 4 digits from 0 to 9 followed by pound (#). This code will replace the button set in section 5.1.6 on page 144 for opening the main door. This applies to the specific resident.

Note: Do not select 4 (this is used to refuse entry or disconnect) and do not select the number that you used for **Get call waiting by pressing** in section 5.1.6 on page 144.

Open aux door by pressing. Enter a series of up to 4 digits from 0 to 9 followed by pound (#). This code will replace the button set in section 5.1.6 on page 144 for opening the auxiliary door. This applies to the specific resident.

Note: Do not select 4 (this is used to refuse entry or disconnect) and do not select the number that you used for **Get call waiting by pressing** in section 5.1.6 on page 144.

7. Select **Elevator**. For instructions on setting up elevator restriction, see Chapter 10 on page 231.

8. Select **Profile**. The Profile window appears.

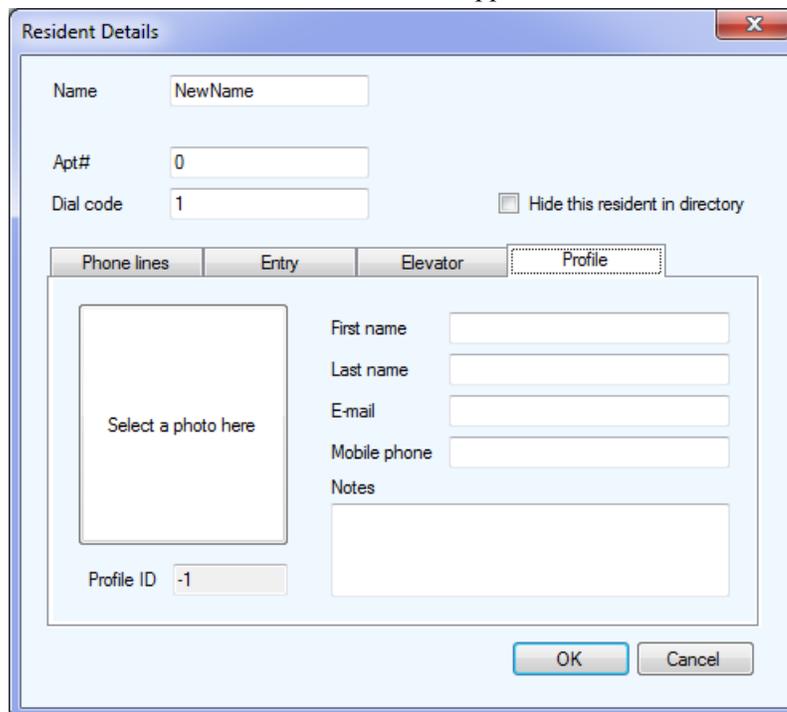


Figure 127. Resident Details - Profile

9. 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 **To get a Job** on page 46.

Mobile phone. Enter the resident's mobile phone number.

Notes. Provide additional notes.

Profile ID. Provide a profile ID.

10. Click **OK** to add a resident and return to the configuration window, or click **cancel** to exit without saving the changes.

To delete one or more 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.

5.6 Setting up SIP (VOIP)

With software version 2.3 or later, you can configure the Touch Screen to make SIP calls to residents. SIP (Session Initiation Protocol) is a protocol for controlling phone or video messaging on an IP network.

Note: SIP works only on Touch Screen models that have the CAM-2 TX3 camera installed.

The TX3 Touch supports 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:

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

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 extension, 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 extension of each resident.

To configure SIP

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

The VOIP window appears.

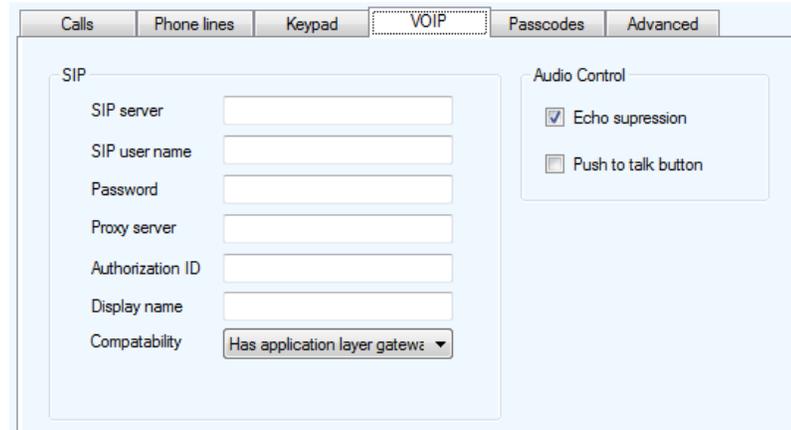


Figure 128. VOIP

SIP server. The URL of the SIP server.

SIP username. The SIP username or SIP extension 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. Not all SIP servers require this.

Authorization ID. The authorization ID (also called authorization username) for the Touch Screen. Not all SIP servers require this.

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.

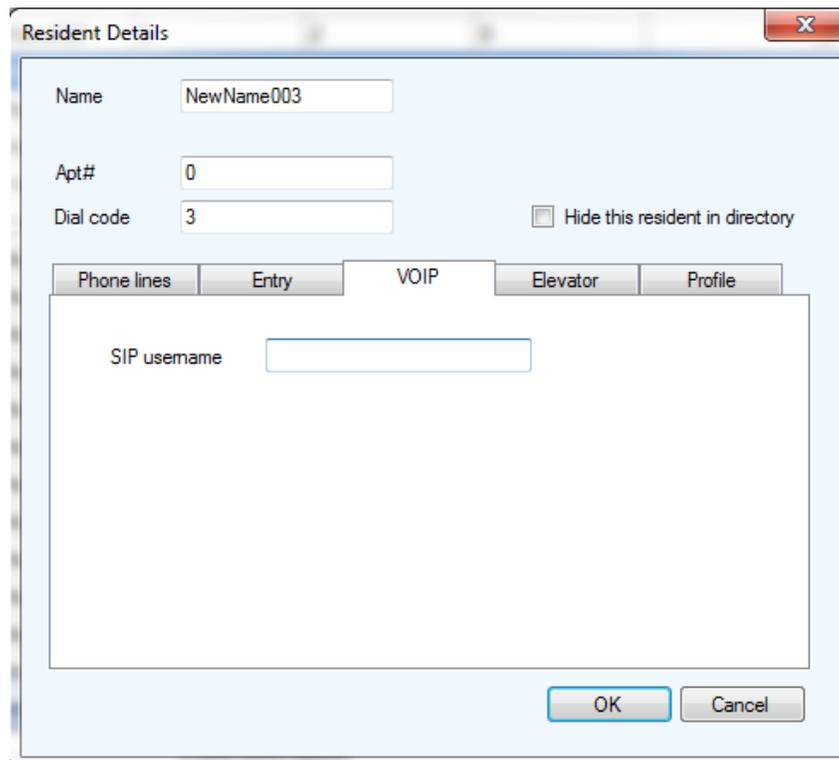
Echo suppression. Use this selection to turn on automatic half duplex. When one speaker is talking, the other speaker's voice will not be transmitted.

Push to talk button. Use this selection to enable a Push to Talk button on the Touch Screen during SIP calls. The visitor must push and hold the Push to Talk button in order to talk to the resident.

Note: Both Echo suppression and Push to talk button help to reduce echo. You can enable either one or the other, but not both. If echo persists when Echo suppression is enabled, then enable Push to talk button instead.

To set up a resident for SIP

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 extension of this resident in the **SIP username** field.



The screenshot shows a 'Resident Details' dialog box with the following fields and options:

- Name:** NewName003
- Apt#:** 0
- Dial code:** 3
- Hide this resident in directory
- Tabs:** Phone lines, Entry, **VOIP**, Elevator, Profile
- SIP username:** (Empty text field)
- Buttons:** OK, Cancel

Figure 129. Resident VOIP Setup

6. Click **OK**.

To call a resident's SIP extension

1. From the main Touch Screen display (see Figure 66 on page 91), select the resident's name, and then select **Call**.
2. If the resident has a phone number in addition to a SIP extension, a window appears with the buttons **Voice Call** and **VOIP Call**. Select **VOIP Call**.

6 Configuring a Card Access System Panel

Touch Screen and Configurator let 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

- Configuring a Card Access System Panel
- Configuring Access Points
- Configuring Inputs
- Configuring Outputs
- Configuring Outputs on a Single Door Controller
- Establishing Correlations
- Adding or Modifying Cards and Access Levels
- Single Door Mode (TX3-CX-1 and TX3-CX-1NP)

6.1 Configuring 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).

6.1.1 Labelling a Panel

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

To label a panel

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

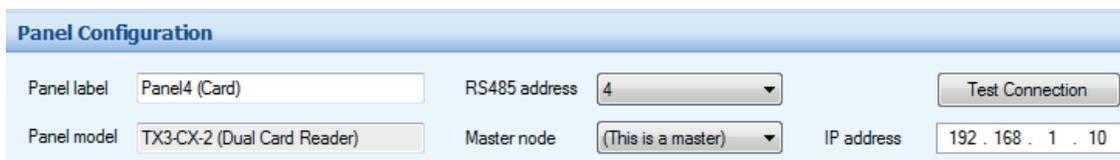


Figure 130. Panel Configuration

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 Master Node (select **This is a master** from the list) or to specify the Master Node for your panel (select the Master Node from the list).

Test Connection. If you are connected to your TX3 system through TCP/IP, this option test the connection between your computer and a Master Node. You can only test a connection to a Master 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 Master 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 Master Node's IP address by editing the `IP address` field. To change a Master Node's IP address, use the `IP Change Tool`. See section 3.2 on page 68 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.

6.1.2 Setting 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 unauthorised 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

To set the card access panel

1. Click Panel. The Panel Configuration window appears:

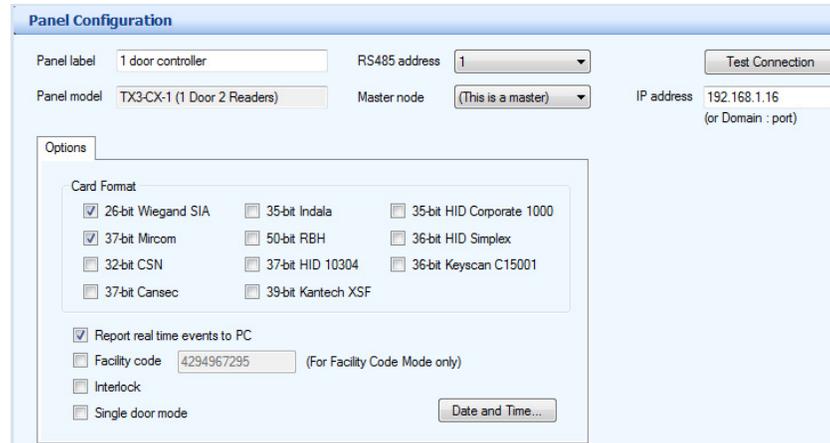


Figure 131. Panel Configuration - Card Reader

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.

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.

See section 6.7 on page 186.

Date and Time button. Select this option to set the date and time of the panel, set daylight savings time, and to set the panel adjustment time.

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

To set the daylight saving time

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

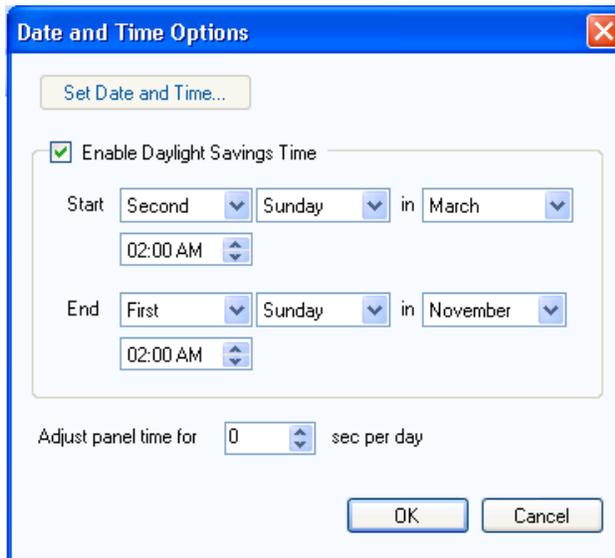


Figure 132. Date and Time Options

- 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.

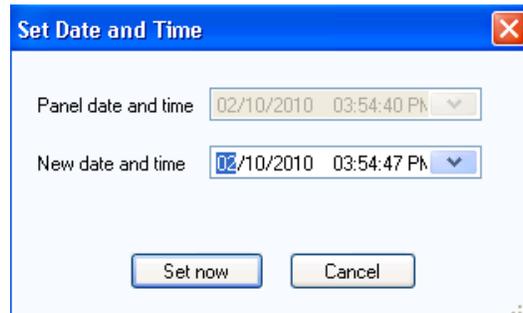


Figure 133. Set New Date and Time

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.

6.2 Configuring 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 Chapter 11).

The auto lock/unlock scheduling for door operation allows free access without an access card, during specified times and areas.

6.2.1 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.

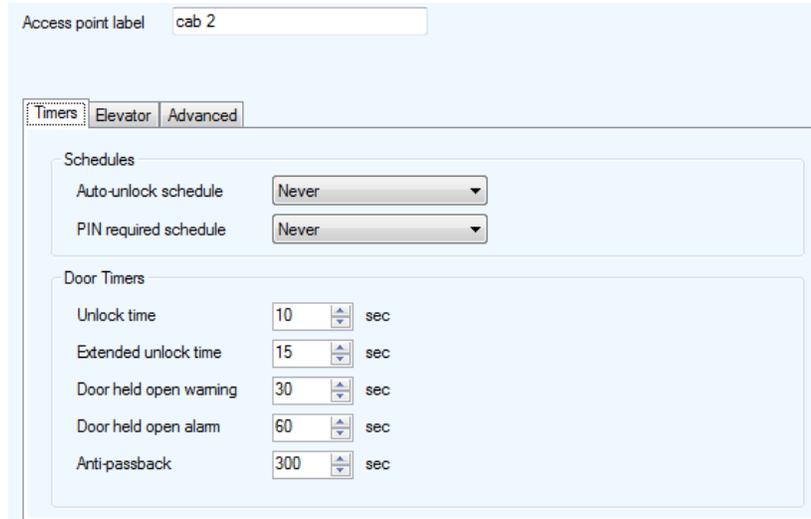
6.2.2 Access Points on the Single Door Controller

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.

To 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.



Access point label: cab 2

Timers | Elevator | Advanced

Schedules

Auto-unlock schedule: Never

PIN required schedule: Never

Door Timers

Unlock time: 10 sec

Extended unlock time: 15 sec

Door held open warning: 30 sec

Door held open alarm: 60 sec

Anti-passback: 300 sec

Figure 134. 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:

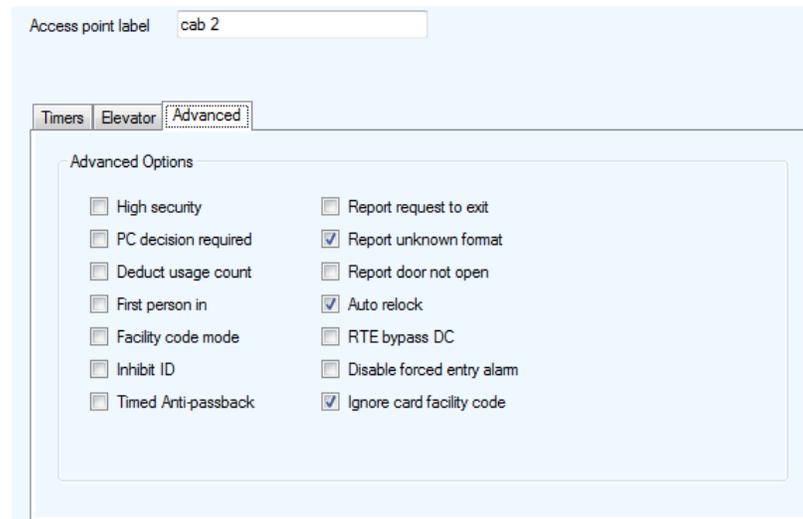


Figure 135. Access Point Configuration - Advanced

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 10.1.2 on page 204).

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 6.1.2 on page 169).

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.

6.3 Configuring 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.

6.3.1 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.

6.3.2 Single Door Controller

Each Single Door Controller has 4 programmable inputs. They are configured as follows by default:

Input 1: Door contact. This input senses if a door is opened or closed.

Input 2: Request to exit. This input sends a signal to the controller that a request to exit has been made.

Inputs 3 and 4: General purpose. This input activates a general purpose output to perform any required function or turn on or off the high security mode.

To configure inputs on all card access controllers

1. Select **Inputs/Outputs**. The **Input/Output Configuration** window appears.

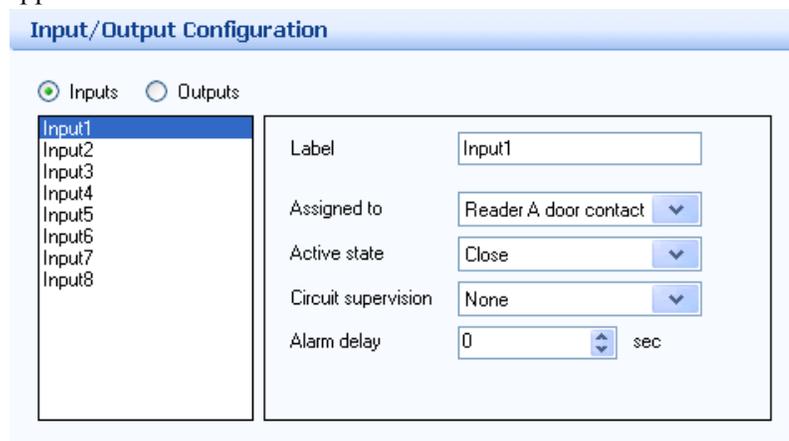


Figure 136. Input Configuration

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**).

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

Alarm delay. The Configurator shows the panel as being in an alarm state when the input becomes active. `Alarm delay` specifies the amount of time to wait before raising the alarm condition. This option is only available to card access and Aperio Door Controller 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.

6.4 Configuring Outputs

For a detailed description of the circuit characteristics see LT-980 TX3-CX Card Access System Installation and Operation Manual.

6.4.1 Configuring 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

To configure outputs on a Two Door Controller

1. Select **Inputs/Outputs**. The **Inputs/Outputs Configuration** window appears.

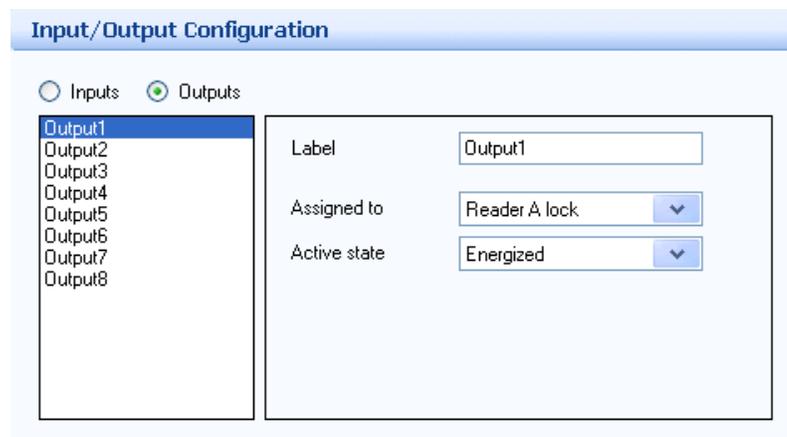


Figure 137. Output Configuration

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.

6.4.2 Configuring 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. See section 6.4.3 on page 180.

To configure outputs 1 and 2 on a Single Door Controller

1. Select **Inputs/Outputs**. The **Inputs/Outputs Configuration** window appears.

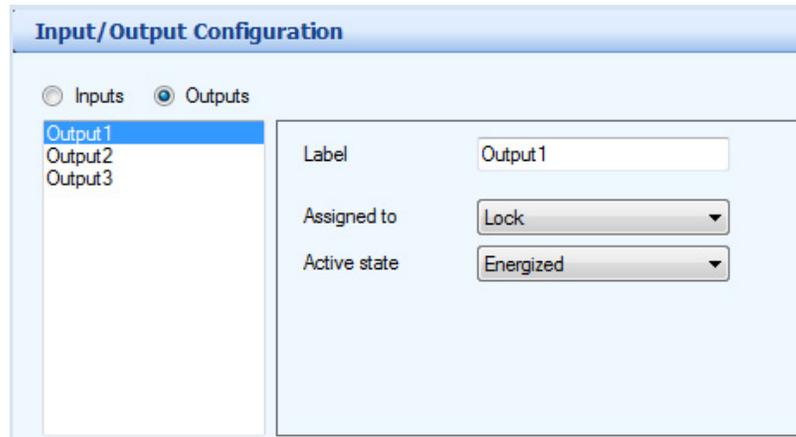


Figure 138. Output Configuration

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**).

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.

6.4.3 Output 3 on a Single Door Controller

Output 3 can power a door strike or a maglock, but it must be configured differently for each. Follow the instructions below to configure output 3.

To configure output 3 on a Single Door Controller

1. Select the Single Door Controller in the Job tree, and then select Inputs/Outputs.
2. Select the Outputs button.
3. Select Output 3.
4. Supply the following information:
 - Label.** Type a label for the output.
 - Assigned to.** Select Lock.
 - Active state.** Select Energized for a door strike or De-energized for a maglock.
5. Click the Send button  to send the job to the panel.

6.5 Establishing 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.

To create a correlation

1. Select **Network > Panel > Correlations**. The Correlations Configuration window appears in the Right Pane.

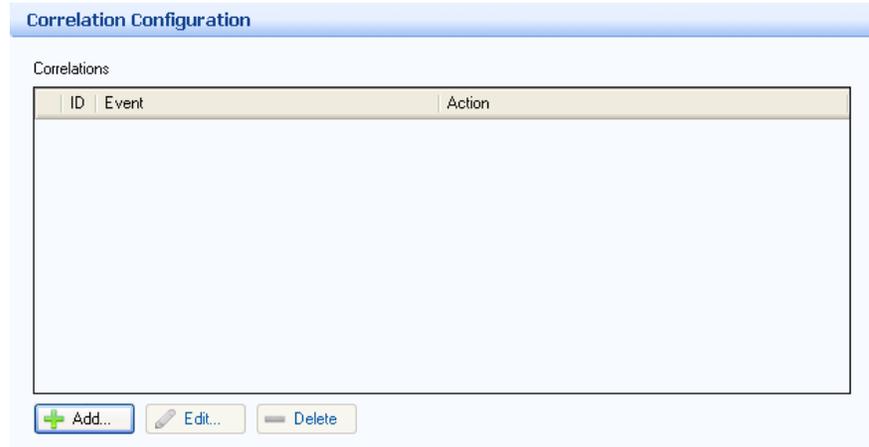


Figure 139. Correlation Configuration

2. Click **Add**. The Add Correlation window appears.

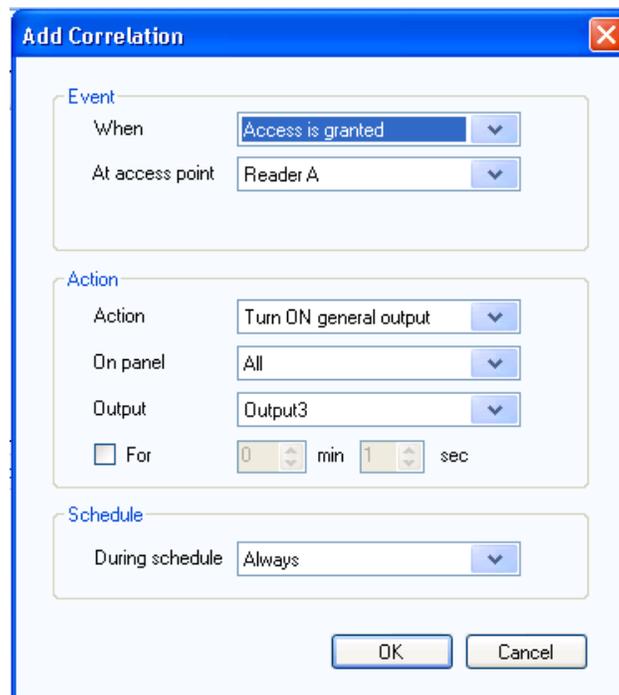


Figure 140. Add Correlation

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 6.3 on page 175.

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 Master 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 Master Nodes by default. If you plan on using the *All* or *Custom* correlation options, select the *Route IP Correlations* checkbox on one of the Master Nodes. See section 5.4 on page 153.

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 Chapter 11).

- 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.

To edit a correlation

- Select a correlation and press `Edit`. The Edit Correlation window appears.
- Provide the information as you would when creating a correlation.
- Click `Ok` to save your edits.
- Connect to your panel, and then send the job to the panel.

To delete a correlation

- Select a correlation and press `Delete`.
- Connect to your panel, and then send the job to the panel.

To activate a correlation

- Click on the check box beside the correlation as shown in Figure 141.

Correlations		
ID	Event	Action
<input checked="" type="checkbox"/> 0	When Access is granted at Reader A	Turn ON general output Output3 (All panels)
<input type="checkbox"/> 1	When High security is turned on at Reader A	Turn ON general output Output6 (All panels)

Figure 141. Correlation activation

- Connect to your panel, and then send the job to the panel.

6.6 Adding or Modifying Cards and Access Levels

Cards and Access Levels appear as entries in the Job tree after you have added either a Card Access System panel or an Aperio Door Controller panel. Cards have to be added to the job and given the appropriate access level in order for access to be granted at an access point.

See Chapter 10 on page 201 for information on how to manage cards and access levels in your job.

6.7 Single Door Mode (TX3-CX-1 and TX3-CX-1NP)

The Single Door Controller has an option called single door mode.

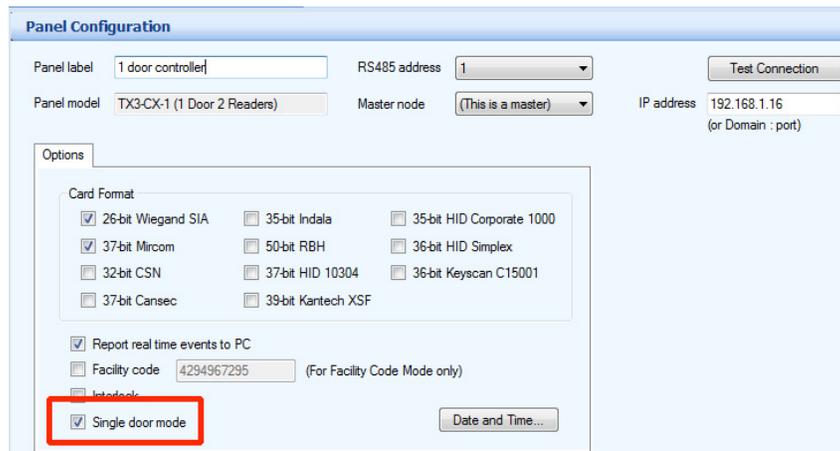
If this option is selected, then the panel controls only one door and both access points represent the same door.

If this option is unselected, then the panel operates as a Two Door Controller and each access point is a separate door.

To disable single door mode

1. In the Configurator, select the Single Door Controller in the left pane.

The Panel Configuration window appears.



The screenshot shows the 'Panel Configuration' window. At the top, there are fields for 'Panel label' (1 door controller), 'RS485 address' (1), 'Panel model' (TX3-CX-1 (1 Door 2 Readers)), 'Master node' ((This is a master)), and 'IP address' (192.168.1.16). Below these is an 'Options' section with a 'Card Format' sub-section containing various card format checkboxes. The 'Single door mode' checkbox is checked and highlighted with a red box. Other options include 'Report real time events to PC', 'Facility code' (4294967295), and 'Intedeck'.

Figure 142. Single door mode

2. Unselect Single door mode.
3. Click the Send button  to send the job to the panel.

7

Configuring an Aperio Door Controller Panel

The TX3 Configurator lets you access, add, modify, configure, and monitor Aperio[™] Door Controller panels and wireless locksets.

This chapter explains

- Configuring an Aperio Door Controller Panel
- Configuring Inputs
- Configuring Outputs
- Establishing Correlations
- Adding or Modifying Cards

7.1 Configuring an Aperio Door Controller Panel

Configuring an Aperio Door Controller 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.

Aperio Door Controller panel configuration lets you:

- label a panel
- set panel options
- add and configure access points (wireless locksets)
- 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 Aperio Door Controllers, refer to the manuals shipped with the system and on the Mircom website (www.mircom.com).

Note: The terms “access point”, “wireless lockset”, and “lockset” all refer to Aperio wireless locksets and sensors in this chapter. To avoid confusion, the terms “wireless lockset” and “lockset” are used to refer to the Aperio wireless lockset and sensor hardware (for example, “swipe a card at the wireless lockset”) and the term “access point” is used to refer to the software representation of an Aperio wireless lockset in the TX3 Configurator software (for example, “configure the timers for an access point” or “right-click on the access point”).

7.1.1 Labelling a Panel

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

To label a panel

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



The screenshot shows a configuration window with the following fields and values:

- Panel label: Panel6
- Panel model: TX3 Aperio
- RS485 address: 6
- Master node: (This is a master)
- IP address: . . .
- Test Connection button

Figure 143. 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 either configure the panel as a Master Node (select **This is a master** from the list) or specify the Master Node for your panel (select the Master Node from the list).

Test Connection. This option tests the connection between your computer and a Master Node. You can only test the connection to a Master 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 Master 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 Master Node's IP address by editing the IP address field. To change a Master Node's IP address, use the IP Change Tool. See section 3.2 on page 68 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 Setting the Aperio Door Controller Panel

The application lets you set and define log reporting, facility code usage, and daylight savings time.

See section 1.1.4 for a list of card formats supported by the Aperio Door Controller.

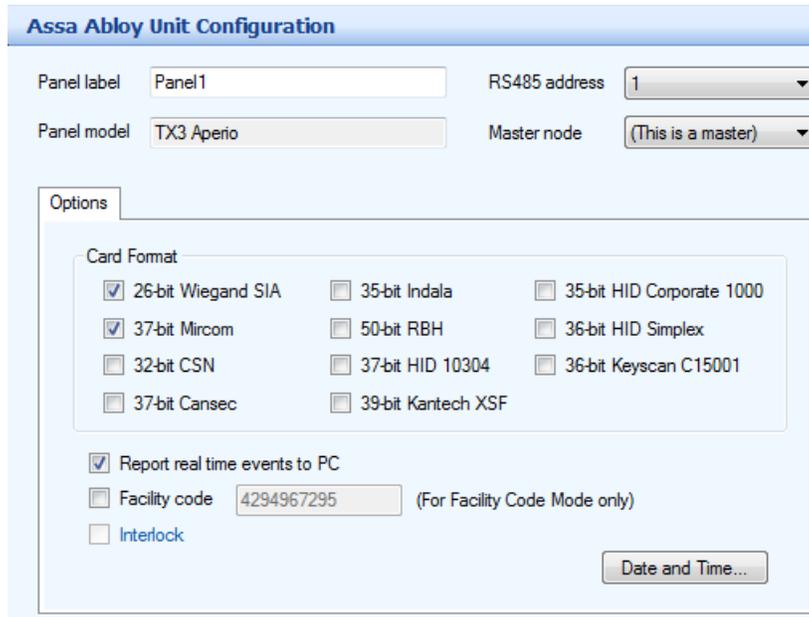
Interlock mode is not available for Aperio Door Controllers.

Cards contain facility code and card number information. The Aperio Door Controller is configurable to grant access on the basis of one of the following:

- facility code only
- card number only
- facility code and card number

To set the Aperio Door Controller panel

1. Click on the Aperio Door Controller panel. The Panel Configuration window appears:



Assa Abloy Unit Configuration

Panel label: RS485 address:

Panel model: Master node:

Options

Card Format

<input checked="" type="checkbox"/> 26-bit Wiegand SIA	<input type="checkbox"/> 35-bit Indala	<input type="checkbox"/> 35-bit HID Corporate 1000
<input checked="" type="checkbox"/> 37-bit Mircom	<input type="checkbox"/> 50-bit RBH	<input type="checkbox"/> 36-bit HID Simplex
<input type="checkbox"/> 32-bit CSN	<input type="checkbox"/> 37-bit HID 10304	<input type="checkbox"/> 36-bit Keyscan C15001
<input type="checkbox"/> 37-bit Cansec	<input type="checkbox"/> 39-bit Kantech XSF	

Report real time events to PC

Facility code: (For Facility Code Mode only)

Interlock

Figure 144. 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 1.1.4 for a list of card formats supported. 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 37-bit Mircom or 37-bit HID 10304, but do not select both.

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. The Aperio Door Controller panel does not support interlock.

Date and Time button. 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.

To set the daylight saving time

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

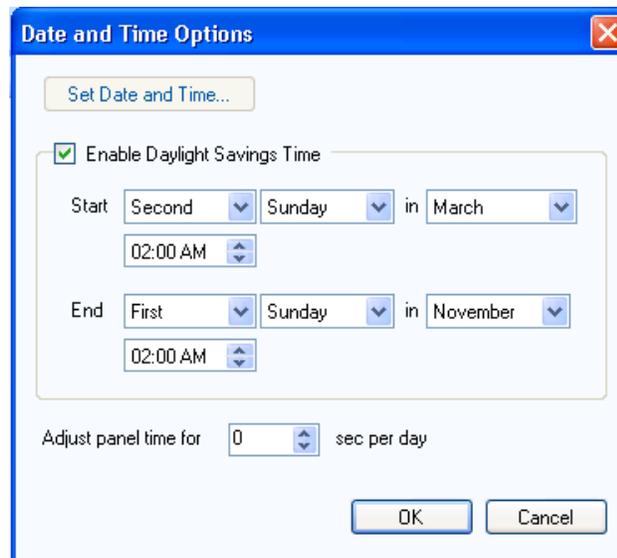


Figure 145. Date and Time Options

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.

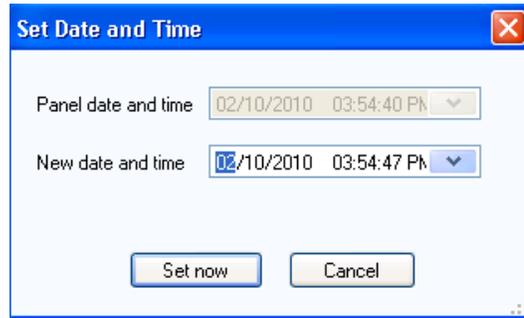


Figure 146. Set New Date and Time

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.

7.1.3 Adding Access Points to Aperio Door Controllers

Aperio Door Controllers can be configured with up to 8 wireless locksets (access points). When you add a new Aperio Door Controller panel to your job, you have to add one access point for each wireless lockset that the panel controls. For example, if you installed an Aperio Door Controller with 2 Aperio hubs and paired 3 locksets to each of the hubs, you will need to add 6 access points to your panel in the TX3 Configurator.

For more information about installing Aperio Door Controllers, Aperio hubs, and wireless locksets as well as how to pair a wireless lockset with an Aperio hub, see LT-1160 (TX3-CX-A8 Aperio Door Controller System Installation and Operation Manual).

Note: If you need to configure more than 8 access points on a single Aperio Door Controller, additional licences for up to 32 access points can be purchased from Mircom.

To add an access point to an Aperio Door Controller

1. Right-click on the Aperio Door Controller panel, and then select **Add Access Point**.

A new access point is added and the Access Point Configuration window opens (see Figure 147). The Configurator automatically assigns values for the Hub Address and the Lock Address. In the following steps you will change these values to match the Hub and Lock Addresses programmed into your wireless lockset.

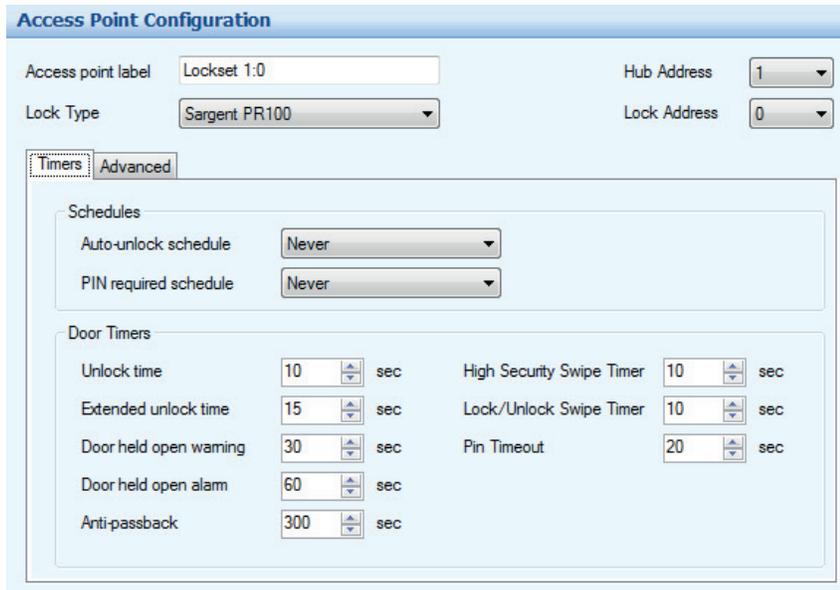


Figure 147. The Access Point Configuration window.

2. Select the Hub Address of the Aperio hub that the new lockset is paired to. The Hub Address is the same as the RS-485 address setting for the Aperio hub.
3. Select the Lock Address for the new access point.

Note: In order for the Aperio Door Controller panel to control the access point, the Hub Address and the Lock Address values must match the values programmed into the wireless lockset. If you do not know the Hub Address and Lock Address for your lockset, use the Aperio Programming Application to find them. See the wireless lockset pairing instructions in LT-1160 for details on how to do this.

4. Select the model of your wireless lockset from the Lock Type list.
5. In the **Access point label** text box, enter a name for the access point.

7.1.4 Setting Access Point Options

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 Chapter 11).

The auto lock/unlock scheduling for door operation allows free access without an access card during specified times and areas.

Note: The wireless locksets must have the remote open option activated in order for the auto unlock schedule to work. Information on how to activate remote open can be found in the Enabling Remote Open section of LT-1160.

To set access point options

1. Expand the Access Point list and click on an access point. The Access Point Configuration window appears.

Figure 148. Access Point Configuration - Timers

2. 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 a 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 a 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.

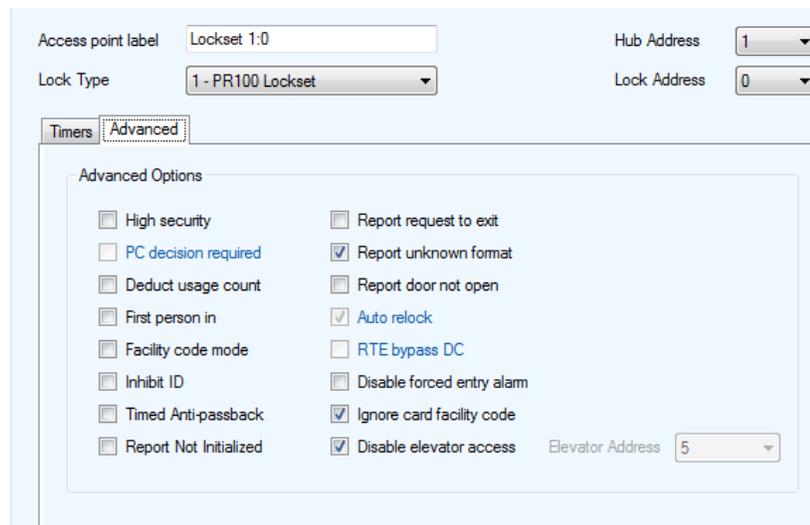
Anti-passback. Specify the time period in which the same card cannot be used twice at this reader.

High Security Swipe Timer. A card with the high security privilege can switch an access point to high security mode. To do this, the card must be swiped four times in succession at the access point. This timer specifies the time period in which these swipes must occur.

Lock/Unlock Swipe Timer. A card with the lock/unlock privilege can toggle an access point between lock and unlock mode. To do this, the card must be swiped two times in succession at the access point. This timer specifies the time period in which these swipes must occur.

Pin Timeout. If a card is swiped during the PIN required schedule, the card holder must enter the card's PIN at the lockset in order to gain access. This timer specifies the time period in which the PIN must be entered.

3. Select the **Advanced** tab. The Advanced Configuration Window appears:



Access point label: Lockset 1:0

Lock Type: 1 - PR100 Lockset

Hub Address: 1

Lock Address: 0

Timers: **Advanced**

Advanced Options

<input type="checkbox"/> High security	<input type="checkbox"/> Report request to exit
<input type="checkbox"/> PC decision required	<input checked="" type="checkbox"/> Report unknown format
<input type="checkbox"/> Deduct usage count	<input type="checkbox"/> Report door not open
<input type="checkbox"/> First person in	<input checked="" type="checkbox"/> Auto relock
<input type="checkbox"/> Facility code mode	<input type="checkbox"/> RTE bypass DC
<input type="checkbox"/> Inhibit ID	<input type="checkbox"/> Disable forced entry alarm
<input type="checkbox"/> Timed Anti-passback	<input checked="" type="checkbox"/> Ignore card facility code
<input type="checkbox"/> Report Not Initialized	<input checked="" type="checkbox"/> Disable elevator access

Elevator Address: 5

Figure 149. Access Point Configuration - Advanced

4. Select from the following options for your access point:

High security. Selecting High security grants access only to cards assigned with the high security privilege.

PC decision required. This option is not available for Aperio wireless locksets.

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 10.1.2 on page 204).

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 on page 189).

Inhibit ID. When enabled the card code is not send 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 Not Initialized. If an Aperio wireless lockset is not initialized, this is detected by the Aperio hub to which it is paired. Select this option to have the TX3 Configurator log and report locksets that are not initialized.

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. This option is not available for Aperio wireless locksets.

RTE bypass DC. This option is not available for Aperio wireless locksets.

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.

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

7.2 Configuring Inputs

Each Aperio door controller has eight general purpose inputs. Inputs are used in correlations (see section 7.4 on page 200) to trigger an action based on the state of the input. For example, a correlation can be written to turn on one of the general purpose outputs or to turn on high security mode when an input becomes active.

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-1160 TX3-CX-A8 Aperio Door Controller System Installation and Operation Manual.

To configure inputs

1. Select **Inputs/Outputs**. The **Input/Output Configuration** window appears.

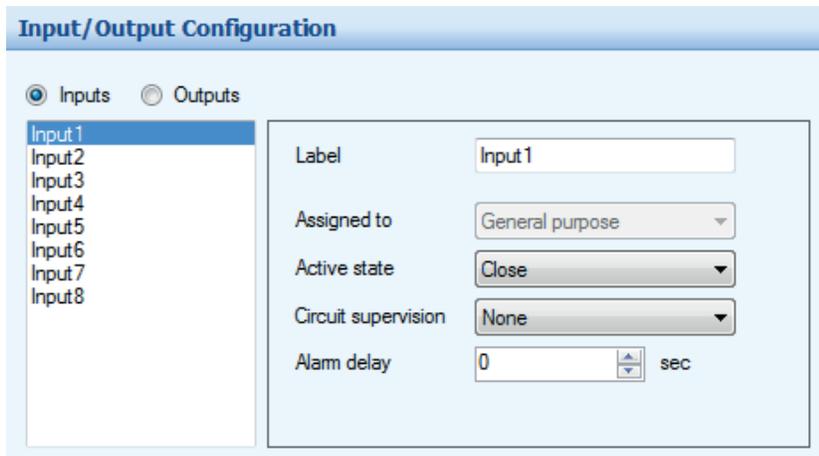


Figure 150. Input Configuration

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. This is not configurable. All Aperio Door Controller inputs are general purpose inputs.

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

Alarm delay. The Configurator shows the panel as being in an alarm state when the input becomes active. `Alarm delay` specifies the amount of time to wait before raising the alarm condition. This option is only available to card access and Aperio Door Controller 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.

7.3 Configuring Outputs

Each Aperio Door Controller has eight general purpose outputs. These outputs can be turned off or on when an event occurs using a correlation correlations (see section 7.4 on page 200). For example, a correlation can be written to turn on one of the general purpose outputs when a particular input becomes active.

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.

Outputs 1 to 6 are dry relay contacts.

Outputs 7 and 8 are programmable.

Note: If one or both of outputs 7 and 8 are used to provide power to Aperio hubs, do **not** include the output(s) in any of your correlations.

To configure outputs

1. Select **Inputs/Outputs**. The **Inputs/Outputs Configuration** window appears.

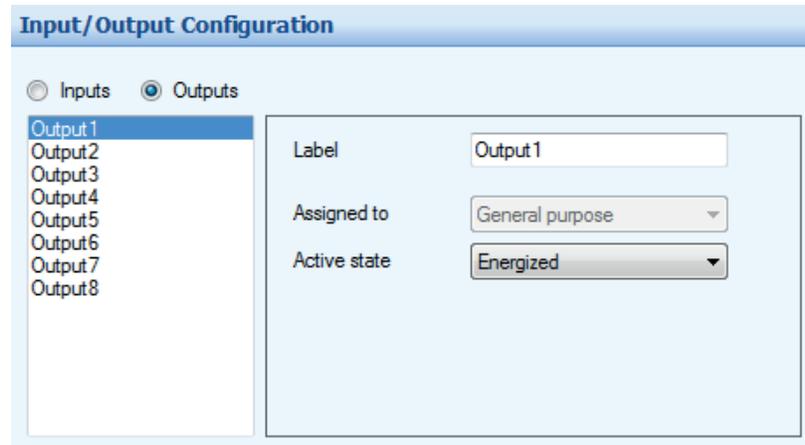


Figure 151. Output Configuration

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. This is not configurable. All Aperio Door Controller inputs are general purpose inputs.

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. 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.

7.4 Establishing 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.

To create a correlation

1. Select **Network > Panel > Correlations**. The Correlations Configuration window appears in the Right Pane.



Figure 152. Correlation Configuration

- Click Add. The Add Correlation window appears.



Figure 153. Add Correlation

- 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.

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 7.2 on page 197.

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. The lockset is in a tamper state.

Tamper restored. The tamper state at the lockset has been cleared.

Battery is normal. The battery at the lockset has returned to a normal state.

Battery is low. The battery at the lockset is low.

Battery is flat. The battery at the lockset is flat.

Lockset is offline. The lockset is not communicating with its Aperio hub.

Lockset is online. The lockset has resumed communicating with its Aperio hub.

At access point/Input label. Select the access point or input where the event has occurred.

Action. Action specifies the type of action to take for the 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, Aperio Door Controller, 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 Master 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 Master Nodes by default. If you plan on using the **All** or **Custom** correlation options, select the **Route IP Correlations** checkbox on one of the Master Nodes. See section 5.4 on page 153.

Output/At access point. This parameter applies the action to a specific output or access point on the selected panel(s). For an output to appear on this list it must be designated as a general purpose output on its panel. For an access point to appear on this list the output must be assigned to a reader.

Note: If one or both of outputs 7 and 8 are used to provide power to Aperio hubs, do **not** include the output(s) in any of your correlations.

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 Chapter 11).

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.

To 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 changes.
4. Connect to your panel, and then send the job to the panel.

To delete a correlation

1. Select a correlation and press **Delete**.
2. Connect to your panel, and then send the job to the panel.

To activate a correlation

1. Click on the check box beside the correlation as shown in Figure 154.



Correlations			
	ID	Event	Action
<input checked="" type="checkbox"/>	0	When Access is granted at Reader A	Turn ON general output Output3 (All panels)
<input type="checkbox"/>	1	When High security is turned on at Reader A	Turn ON general output Output6 (All panels)

Figure 154. Correlation activation

2. Connect to your panel, and then send the job to the panel.

7.5 Adding or Modifying Cards

Cards and Access Levels appear as entries in the Job tree after you have added either a Card Access System panel or an Aperio Door Controller panel. Cards have to be added to the job and given the appropriate access level in order for access to be granted at an access point.

See Chapter 10 for information on how to manage cards and access levels in your job.

8 Remote Access

This chapter explains how to

- Access one or more Master Nodes over the Internet using port forwarding.

Note: You must use the TX3 Configurator version 2.1.8 or higher for remote access of Master Nodes using port forwarding.

8.1 Overview

A TX3 network is connected to the Internet by a router. In order to access Master Nodes on the TX3 network over the Internet, the router must be configured to map IP addresses and ports correctly.

Master Node: A Master 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 Master Node in order to configure the router and find the IP addresses of the Master Node. You can disconnect the local PC after the configuration is complete.

Remote PC: Use the remote PC to access the Master 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 Master 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 Master 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 Master Nodes, and port 14000 to communicate with non-Touch Screen Master Nodes.

8.2 Get the IP Addresses, RS-485 Addresses, and MAC addresses of the Master Nodes

To configure remote access you must first get the IP addresses, RS-485 addresses, and MAC addresses of the Master Nodes.

1. Connect a PC or laptop (the local PC) and the TX3 Master 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 Master Nodes on the TCP/IP network and their IP addresses.

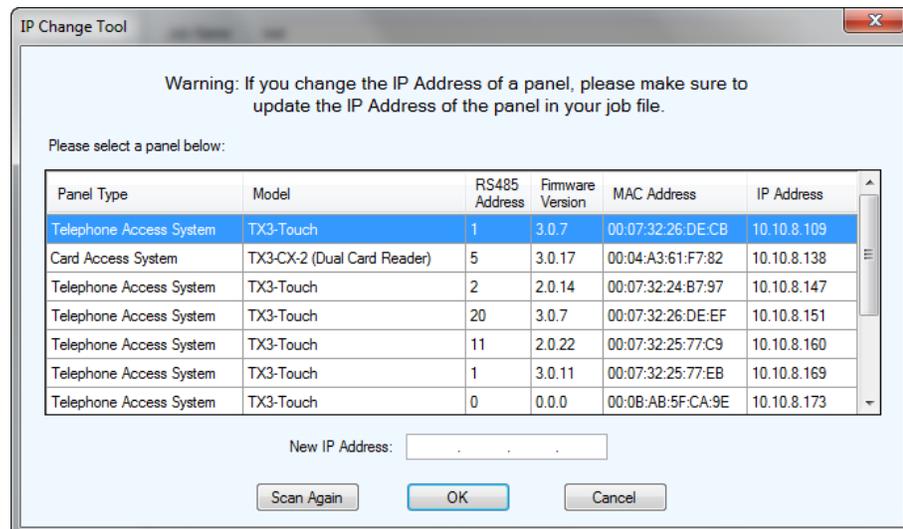


Figure 155. IP Change Tool

4. Make a note of the IP address, RS-485 address, and MAC address of the Master 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 Master Nodes you have:
 - You want to access one Master 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 8.3 on page 208.
 - You want to access multiple Master Nodes over the Internet using multiple global IP addresses and you have a router that supports multiple external interfaces. Go to section 8.4 on page 211.
 - You want to access one or more Master 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 8.5 on page 214.

8.3 Access one Master 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 156 shows the configuration for setting up remote access of one Master Node.

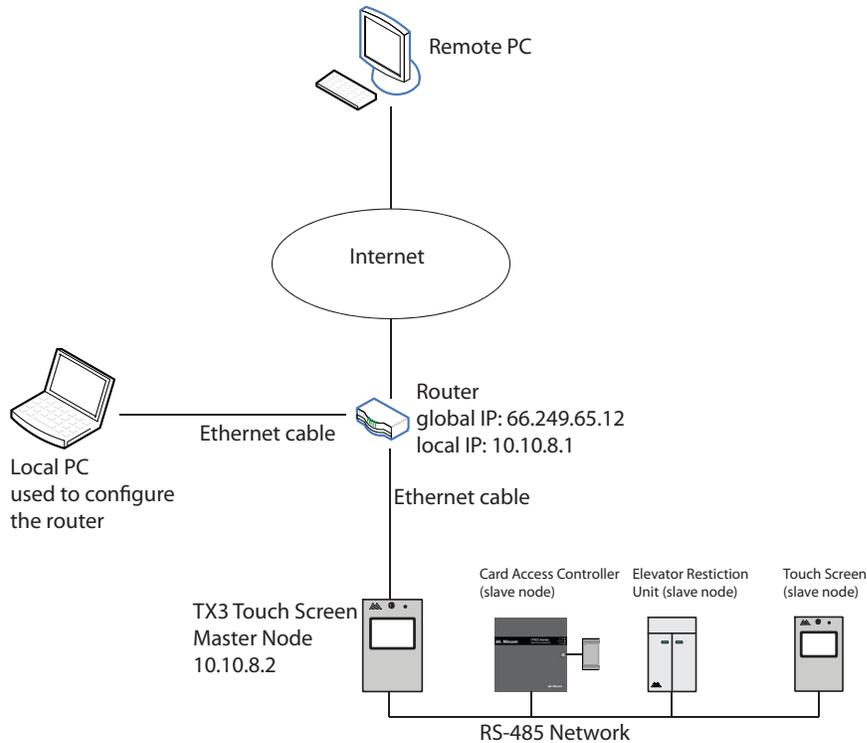


Figure 156. Accessing a Master Node over the Internet

Note: There can only be **one** Master 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 configure Touch Screen options such as color and themes), the Touch Screen panel must be set as a Master Node even if there is no slave panel connected to it.

To access the Master Node remotely over the Internet, you must configure the router to assign or map the Master 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 Master 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 Master 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.

8.3.1 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 8.2 on page 206.
- Port: 8080 for Touch Screens and 14000 for non-Touch Screens.
- Protocol or Service Type: TCP.

8.3.2 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. Disconnect the local PC from the network. It is no longer needed.

8.3.3 Connect to the Master 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 Master 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.

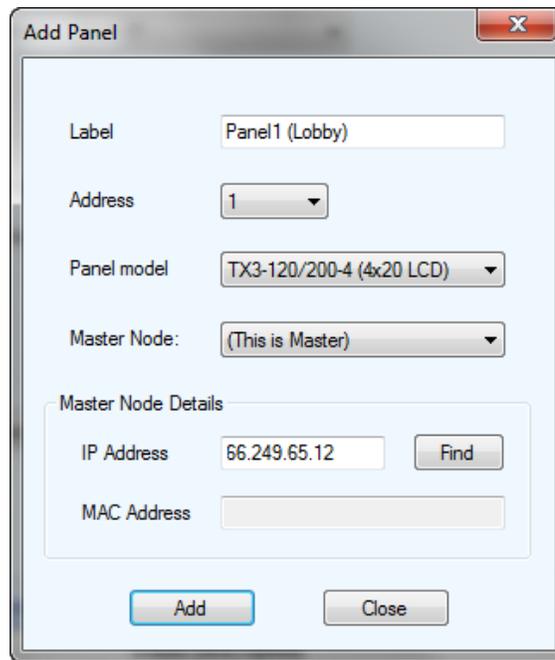


Figure 157. Add Panel

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.

8.4 Access multiple Master 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 Master Nodes remotely over the Internet, you must configure the router to assign or map each Master 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 Master Node...
66.249.65.12	10.10.8.2 (Touch Screen Master Node)
66.249.65.13	10.10.8.3 (Card Access Master Node)

You must:

1. Configure the router so that each panel is assigned to a different global IP address.
2. Connect to the Master Nodes from a remote PC.

Note: There can only be **one** Master 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 configure Touch Screen options such as color and themes), the Touch Screen panel must be set as an Master Node even if there is no slave panel connected to it.

8.4.1 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 8.2 on page 206.
- **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 Master Nodes.

A request for this global IP address...	Is directed to this Master Node...
66.249.65.12	10.10.8.2 (Touch Screen Master Node)
66.249.65.13	10.10.8.3 (Card Access Master 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.

8.4.2 Connect to the Master 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 Master 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.

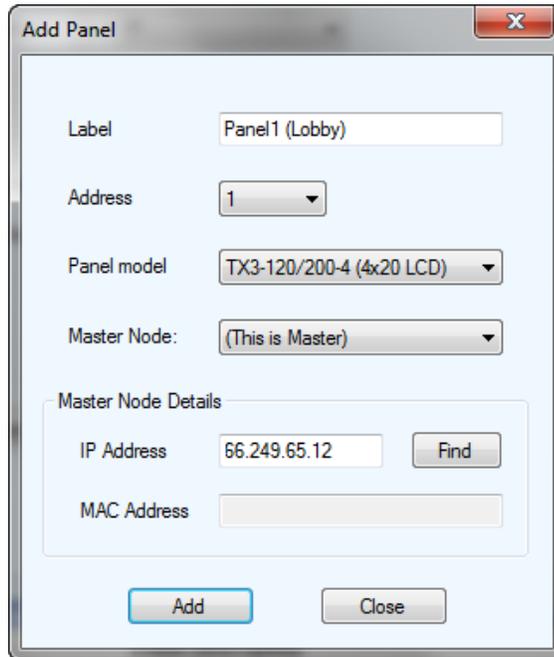


Figure 158. Add Panel

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 8.2 on page 206.
8. Click **Connect**.
9. Check for a message that the panel is **Online** in the **Online Events** pane at the bottom of the window.

8.5 Access one or more Master 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 159 shows an example network.

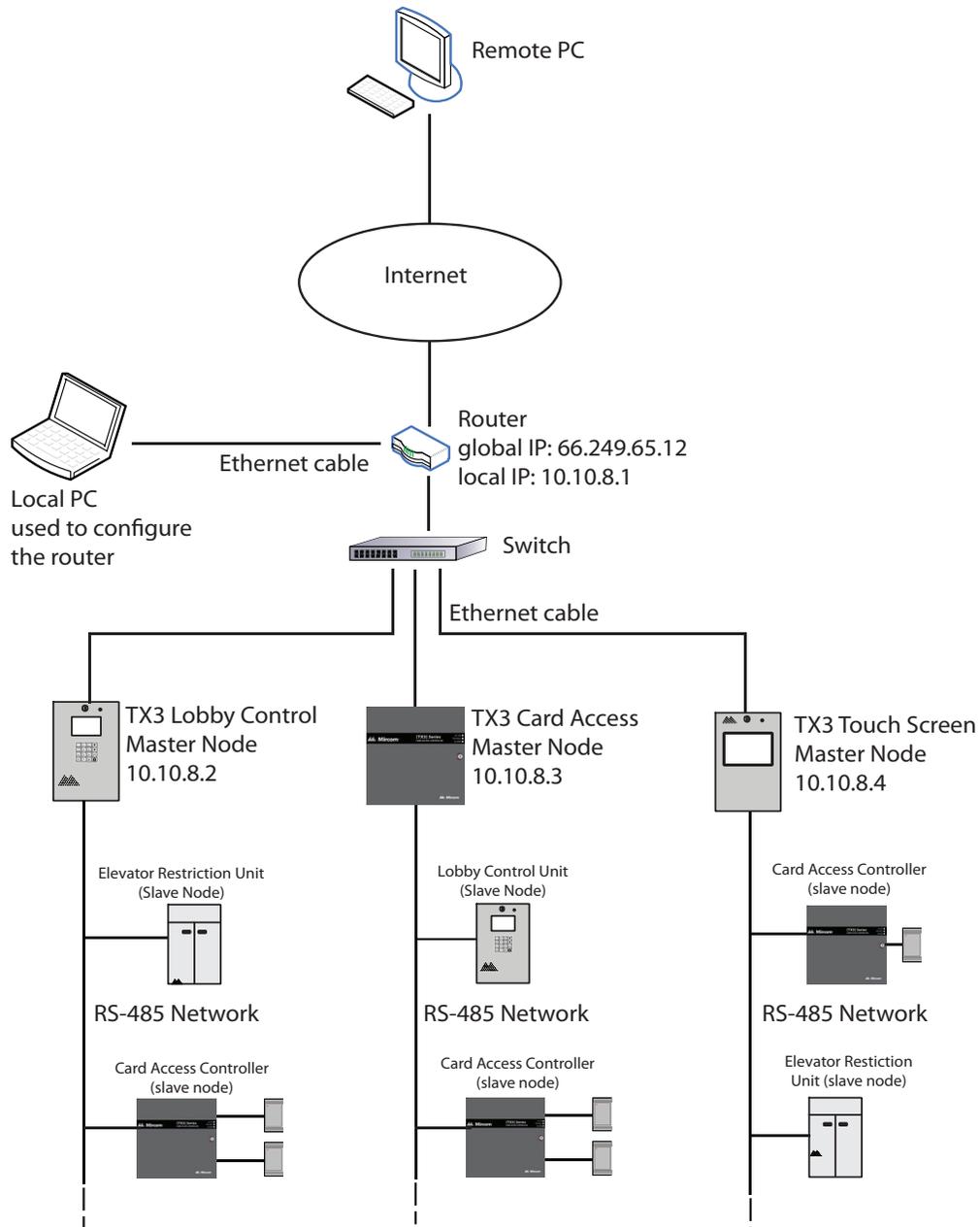


Figure 159. Accessing multiple Master Nodes over the Internet using port forwarding

To access the Master Nodes remotely over the Internet, you must configure the router to assign or map each Master 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 159 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 Master Node by sending a request to the router's global IP address plus the port assigned to the Master Node.

A request for this global IP address...	Is directed to this Master Node...
66.249.65.12:15000	10.10.8.2:14000 (Lobby Control Master Node)
66.249.65.12:15001	10.10.8.3:14000 (Card Access Master Node)
66.249.65.12:15002	10.10.8.4:8080 (Touch Screen Master 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 Master 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.

8.5.1 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 8.2 on page 206.
- 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.

8.5.2 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 Master 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 8.2 on page 206.

Enabled: Select this checkbox.

In Figure 160, there are three Master 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	<input type="checkbox"/>
---	---	---	192.168.0.0	<input type="checkbox"/>
---	---	---	192.168.0.0	<input type="checkbox"/>
---	---	---	192.168.0.0	<input type="checkbox"/>
---	---	---	192.168.0.0	<input type="checkbox"/>
15000	14000	TCP ▼	192.168.0.128	<input checked="" type="checkbox"/>
15001	14000	TCP ▼	192.168.0.132	<input checked="" type="checkbox"/>
15002	14000	TCP ▼	192.168.0.133	<input checked="" type="checkbox"/>

Figure 160. Configuring a Linksys router for three Master Nodes

8.5.3 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. Disconnect the local PC from the network. It is no longer needed.

8.5.4 Connect to the Master 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 Master 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.

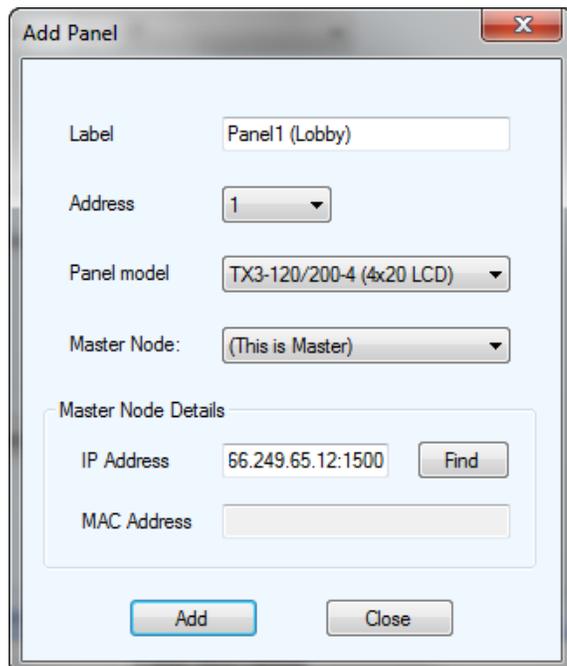


Figure 161. Add Panel

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 8.2 on page 206. You assigned the external ports to the panels in section 8.5.1 on page 215.
8. Click **Connect**.
9. Check for a message that the panel is **Online** in the **Online Events** pane at the bottom of the window.

9 Cards and Access Levels

Once you have added a Card Access Panel or an Aperio Door Controller to your job, you can start adding cards and start configuring access levels.

This chapter explains

- Adding or Modifying Cards
- Finding a Card
- Configuring Access levels

9.1 Adding or Modifying Cards

Cards appear in the Job tree with the addition of the first Card Access System or Aperio Door Controller 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 166.

Card Configuration		Find:	In column	Card Name	Clear			
Card Name	Card Number	Access Level	First Name	Last Name	Apt#	Address	Department	
▶ Card 1	1	Admin						
Card 2	2	Admin						

Figure 162. Card Configuration

9.1.1 Adding 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.

For information on how to provide detailed configuration information for a card see section 9.1.2.

To add a card

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 163. 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 6.2 or section 7.1.3).

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.

9.1.2 Editing 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.

To 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.

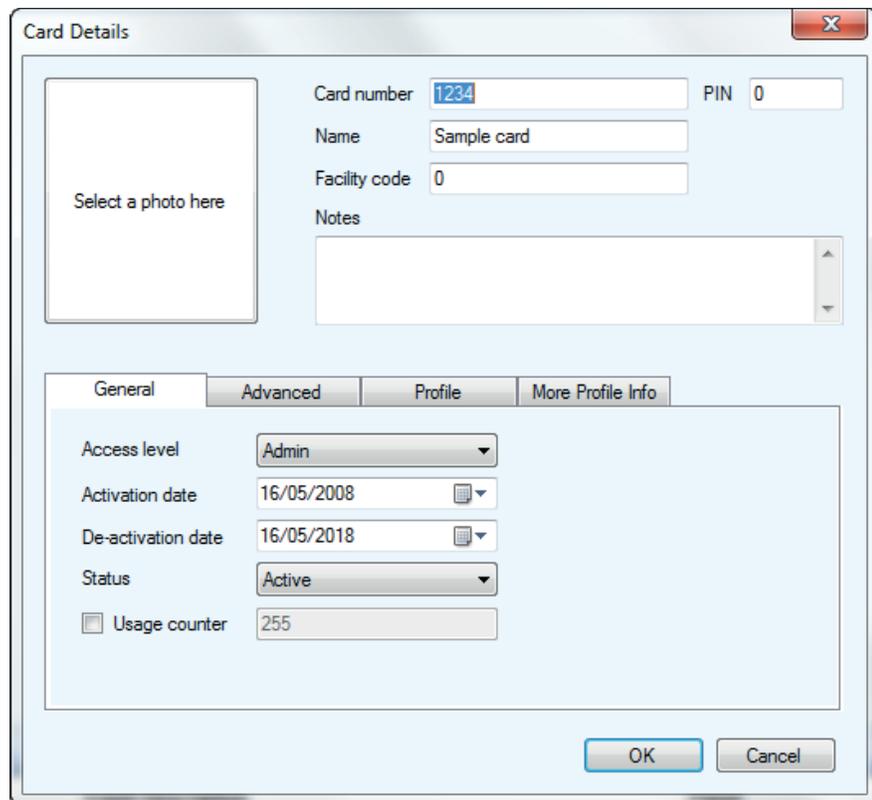


Figure 164. Card Details

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 an access level 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 6.2 or section 7.1.3).

4. Select Advanced. The Advanced tab appears.

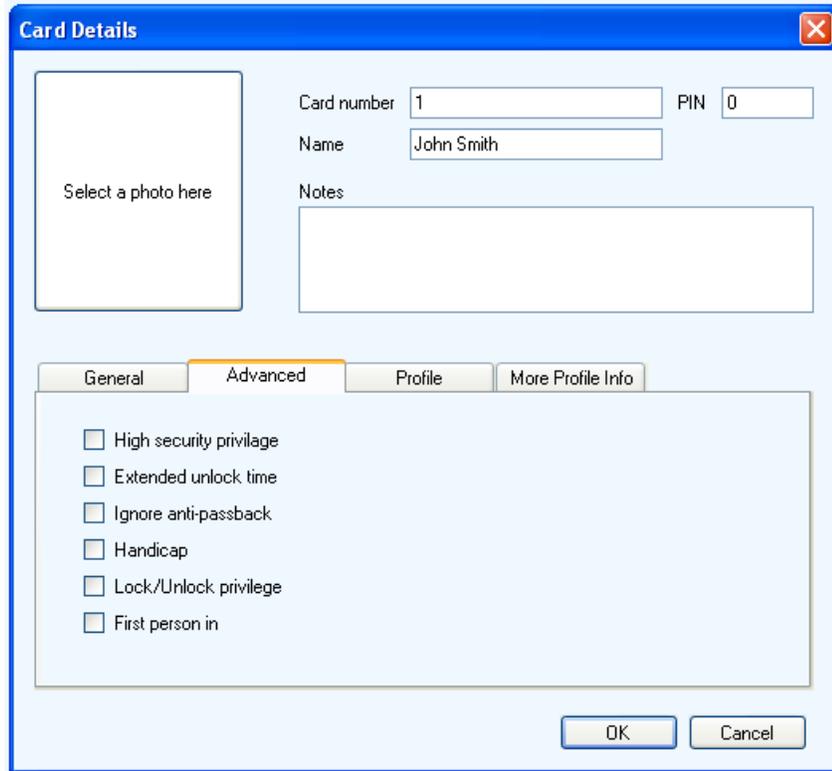


Figure 165. Card Details Advanced

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 sections 6.2 and 7.1.3.

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 sections 6.2 and 7.1.3.

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 sections 6.4, 6.4.2 and 7.3.

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 sections 6.4, 6.4.2 and 7.3.

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 sections 6.2 and 7.1.3.

6. Select **Profile**. The Profile window appears.

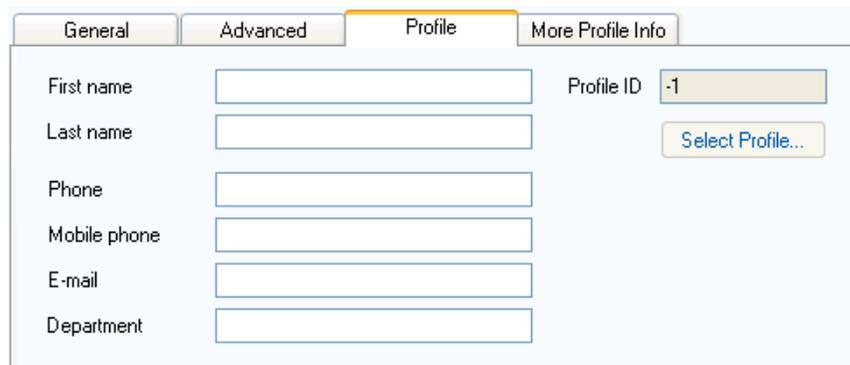


Figure 166. Card Details Profile

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.

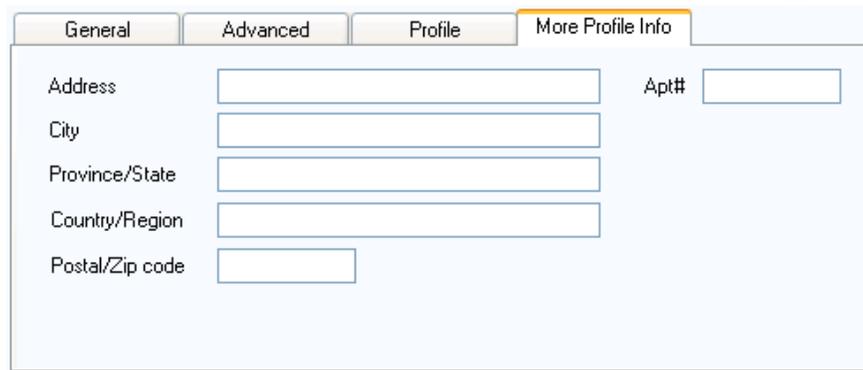


Figure 167. Card Details More Profile Info

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 Finding a Card

The application provides you with quick browsing and searching capabilities for finding card information.



Figure 168. 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 Configuring 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 on page 221).

You can create a maximum of 128 access levels for each controller. 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) and an Aperio Door Controller called Panel2 with two access points (Lockset 1:0 and Lockset 1:1), you could define the following access levels.

Access Level ID = 1

- Panel1: Reader A schedule = Always
- Panel1: Reader B schedule = Never
- Panel2: Lockset 1:0 schedule = Never
- Panel2: Lockset 2:0 schedule = Never

Access Level ID = 2

- Panel1: Reader A schedule = Office hours
- Panel1: Reader B schedule = Always
- Panel2: Lockset 1:0 schedule = Always
- Panel2: Lockset 2:0 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 or Aperio Door Controller 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.

To create an access level

1. Select `Access Levels` from the Job tree.

The Access Level Configuration window appears.

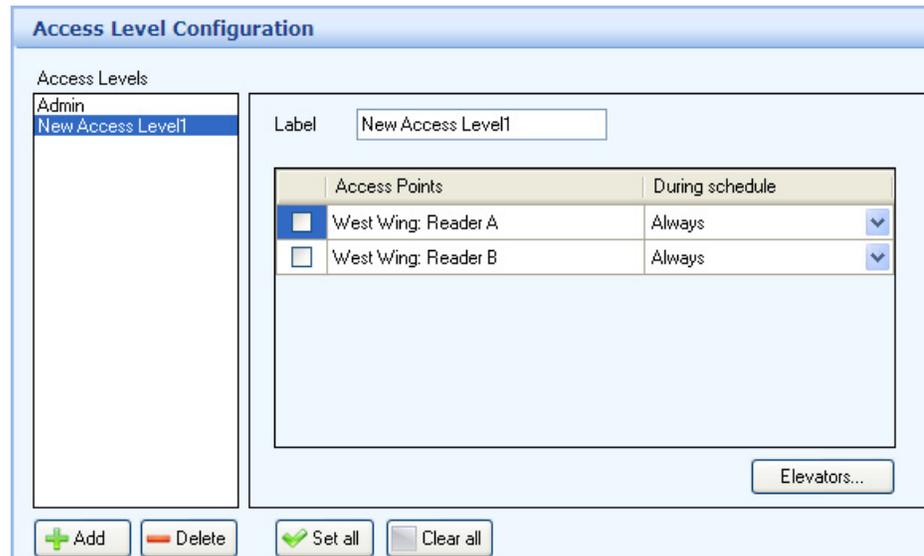


Figure 169. Access Level Configuration

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 Chapter 10 on page 231.

4. When you have finished configuring the access level, connect your computer to your TX3 network, and then send the job.

To 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 Elevator Control

This chapter describes how to set up elevator control in the TX3 Configurator software.

10.1 Before you begin

Read LT-9940 the TX3 Elevator Restriction Installation and Operation Manual for detailed information on elevator control. Make sure that you have are using the right firmware versions as described in that manual.

10.2 Software Version

You must have the TX3 Configurator version 2.8.x or higher in order to use elevator restriction as described in this chapter.

This chapter explains

- Configuring Card Access with Elevator Restriction Firmware Version 2.4.x or 3.4.x
- Configuring Card Access with Elevator Restriction Firmware 2.0.x, 3.0.x, or 3.1.x
- Configuring Residents with Elevator Restriction Firmware Version 2.4.x or 3.4.x
- Configuring Residents with Elevator Restriction Firmware 2.0.x, 3.0.x, or 3.1.x

10.3 Configuring Card Access with Elevator Restriction Firmware Version 2.4.x or 3.4.x

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

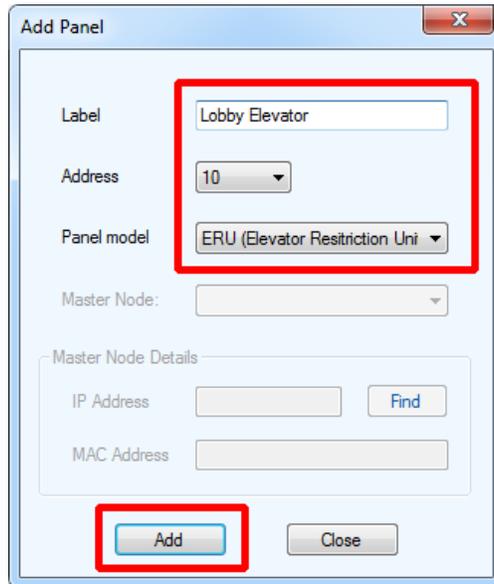
Follow the instructions below to complete these steps.

10.3.1 Add Elevator Restriction Units to the Job Tree

Note: You can add up to 6 Elevator Restriction Units to a job.

1. Select `Edit > Add Panel`.
2. If the panel is connected over TCP/IP, follow the instructions in section 3.1.2.1 on page 66 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)



The screenshot shows a dialog box titled "Add Panel" with the following fields and options:

- Label:** Text input field containing "Lobby Elevator".
- Address:** Dropdown menu showing "10".
- Panel model:** Dropdown menu showing "ERU (Elevator Restriction Uni)".
- Master Node:** Dropdown menu (empty).
- Master Node Details:**
 - IP Address:** Text input field with a "Find" button to its right.
 - MAC Address:** Text input field.
- Buttons:** "Add" and "Close" buttons at the bottom.

Figure 170. Add ERU

4. Click Add.
5. Repeat these steps for every Elevator Restriction Unit in the job.

10.3.2 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.

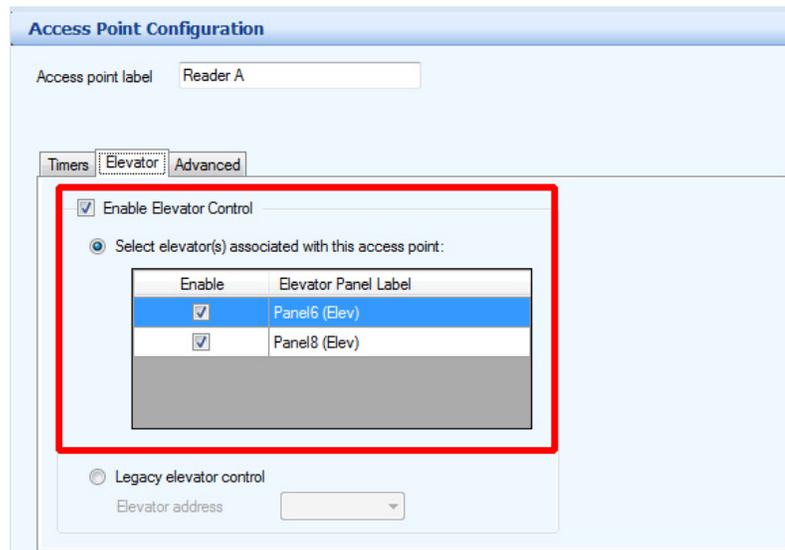


Figure 171. Access Point Configuration - Elevator Access

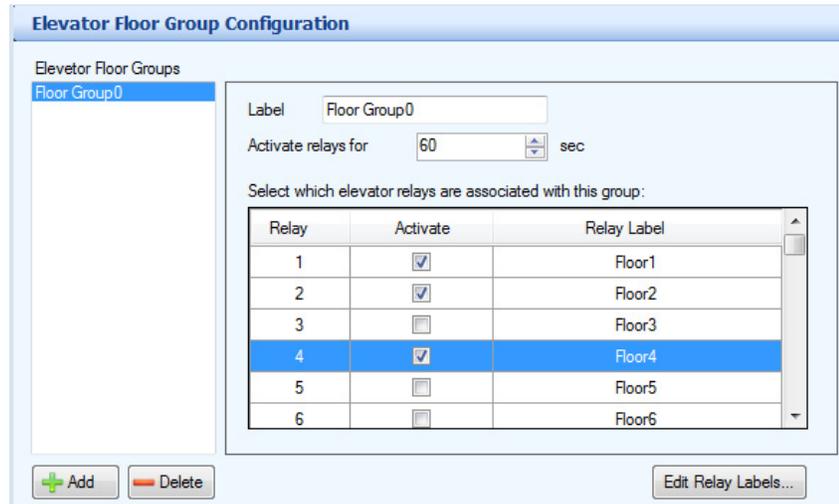
3. Select `Enable Elevator Control`.
4. Select the Elevator Restriction Units that this access point controls.

10.3.3 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.



Elevator Floor Group Configuration

Elevator Floor Groups

Floor Group0

Label: Floor Group0

Activate relays for: 60 sec

Select which elevator relays are associated with this group:

Relay	Activate	Relay Label
1	<input checked="" type="checkbox"/>	Floor1
2	<input checked="" type="checkbox"/>	Floor2
3	<input type="checkbox"/>	Floor3
4	<input checked="" type="checkbox"/>	Floor4
5	<input type="checkbox"/>	Floor5
6	<input type="checkbox"/>	Floor6

+ Add - Delete Edit Relay Labels...

Figure 172. Floor Groups

3. Select the floors that you want in this floor group.

Note: **A maximum of 24 relays can be assigned to floor group.**

4. Provide the following information.

Activate relays for. Specify the amount of time that the ERU relays are active (and the elevator cab buttons are active). This timer starts when the access point reads the card. This means that the timer must be long enough for the elevator cab to descend from the top floor to the lobby, and for the resident to enter the cab and press the button.

Note: **The minimum is 5 seconds and the maximum is 600 seconds.**

5. Click Add to add another floor group.

To change the names of the relays

1. Click Edit Relay Labels.

The Edit Elevator Relay Labels window appears.

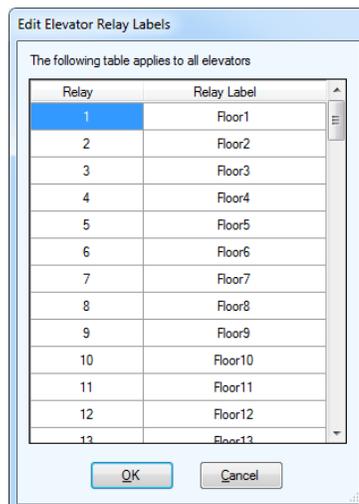


Figure 173. Edit Elevator Relay Labels

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.

10.3.4 Create an access level

1. Select `Access Levels` from the Job tree.

The Access Level Configuration window appears.

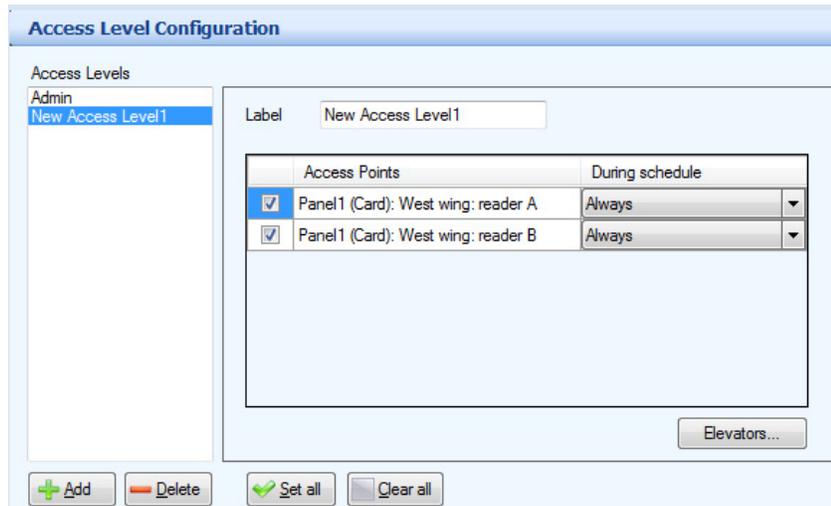


Figure 174. Access Level Configuration

Note: **The Admin level includes all access points. This cannot be changed.**

2. Click `Add`.
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 11.1 on page 256 for instructions on creating schedules.

10.3.5 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.

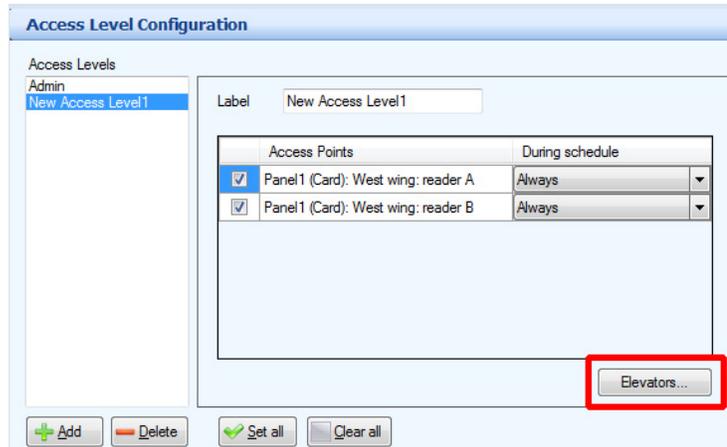


Figure 175. Access Level Configuration - Elevators button

The Elevator Control window appears.

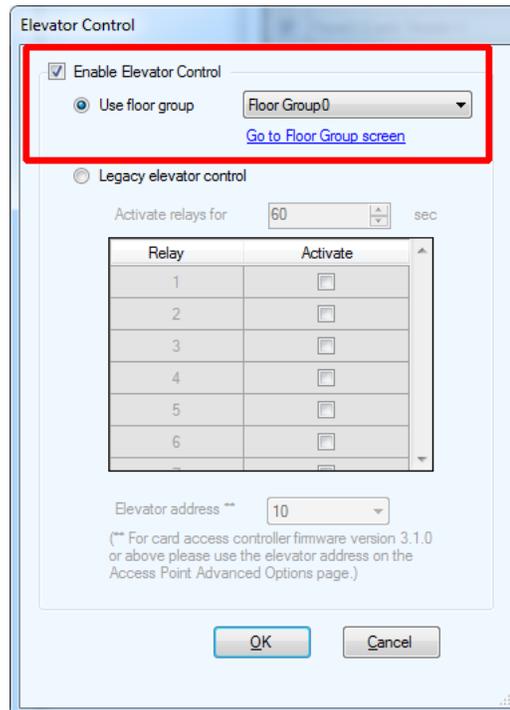


Figure 176. Elevator Control

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 10.3.3 on page 234.
4. Select the floor group associated with this access level.
5. Click **OK**.

10.3.6 Assign cards to the access level

1. Select **Cards** from the Job tree.
2. The Card Configuration window appears.

Card Configuration		Find:	In column	Card Name	Clear	
	Card Name	Card Number	Facility Code	Access Level	First Name	Last Name
▶	NewCard	1	0	Admin		
	NewCard2	2	0	Admin		

Figure 177. 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.

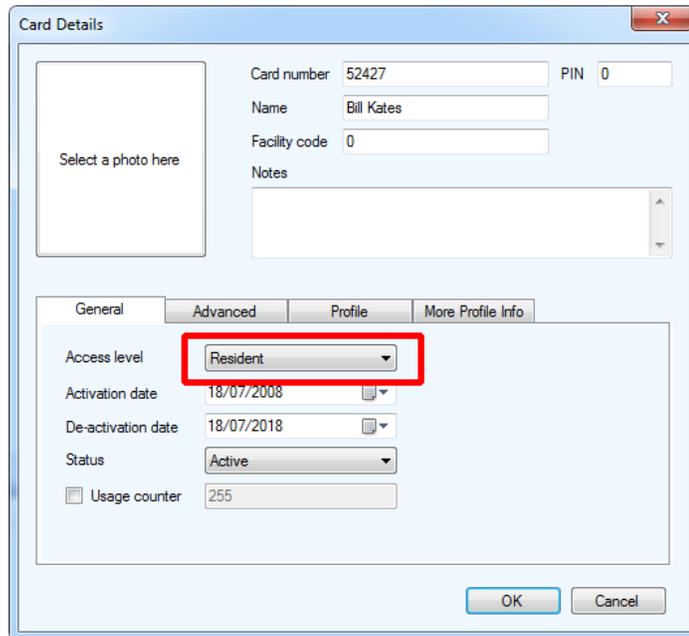


Figure 178. Card Details

4. In the Access Level menu, select an access level for the card.
5. Click OK, and send the job to the panel.

10.4 Configuring 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.

10.4.1 To 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.

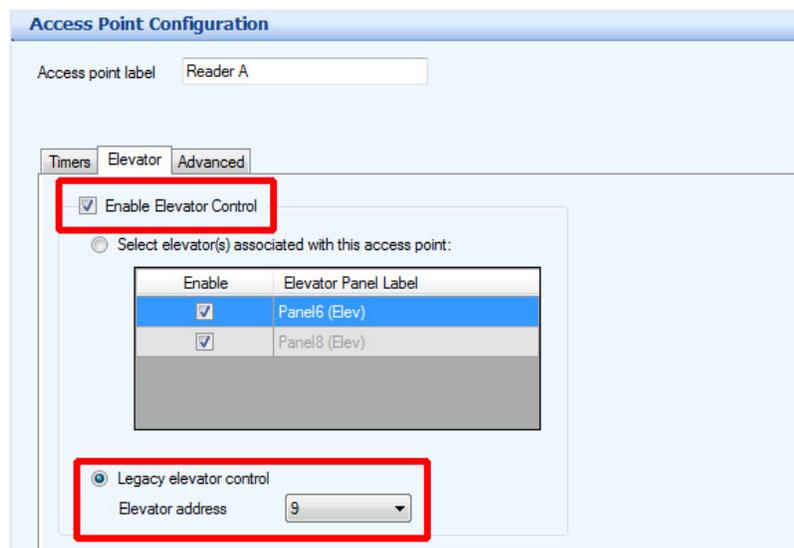


Figure 179. Access Point Configuration - Elevator Access

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.

10.4.2 To create an access level

1. Select `Access Levels` from the Job tree.

The Access Level Configuration window appears.

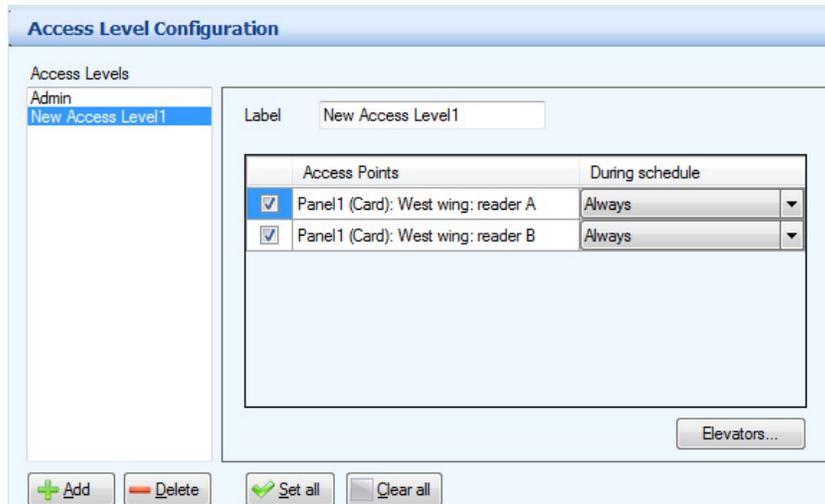


Figure 180. Access Level Configuration

Note: You cannot change the access points assigned to the Admin level, but you can change the elevators.

2. Click `Add`.
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 LT-995 for instructions on creating schedules.

10.4.3 To assign floors to the access level

1. From the Access Level Configuration window, select the access level, and then click the Elevators button.

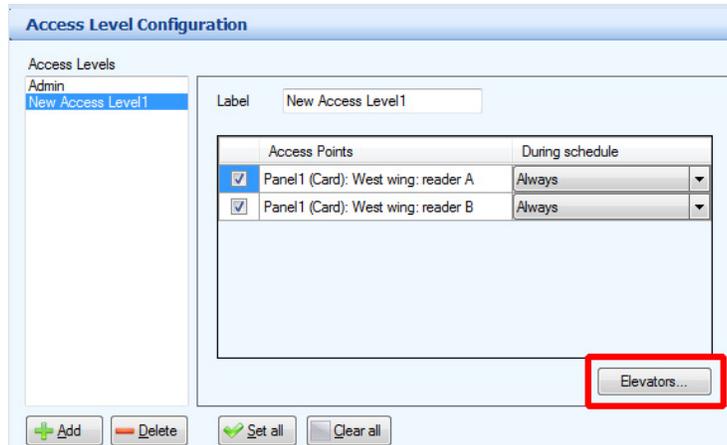


Figure 181. Access Level Configuration - Elevators button

The Elevator Control window appears.

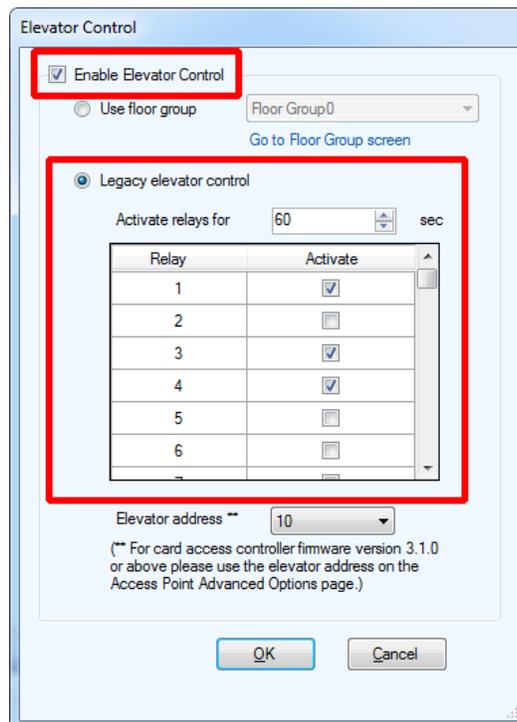


Figure 182. Elevator Control

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 (and the elevator cab buttons are active). This timer starts when the access point reads the card. This means that the timer must be long enough for the elevator cab to descend from the top floor to the lobby, and for the resident to enter the cab and press the button.

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.

10.4.4 To assign cards to the access level

1. Select Cards from the Job tree.
2. The Card Configuration window appears.

Card Configuration		Find:	In column	Card Name	Clear
Card Name	Card Number	Facility Code	Access Level	First Name	Last Name
▶ NewCard	1	0	Admin		
NewCard2	2	0	Admin		

Figure 183. 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.

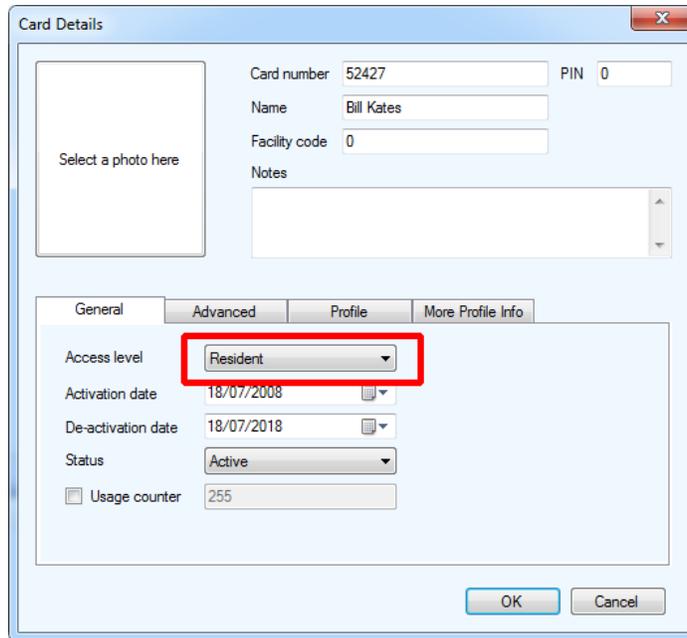


Figure 184. Card Details

4. In the Access Level menu, select an access level for the card.
5. Click OK, and send the job to the panel.

10.5 **Configuring Residents with Elevator Restriction Firmware Version 2.4.x or 3.4.x**

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.

10.5.1 Add Elevator Restriction Units to the Job Tree

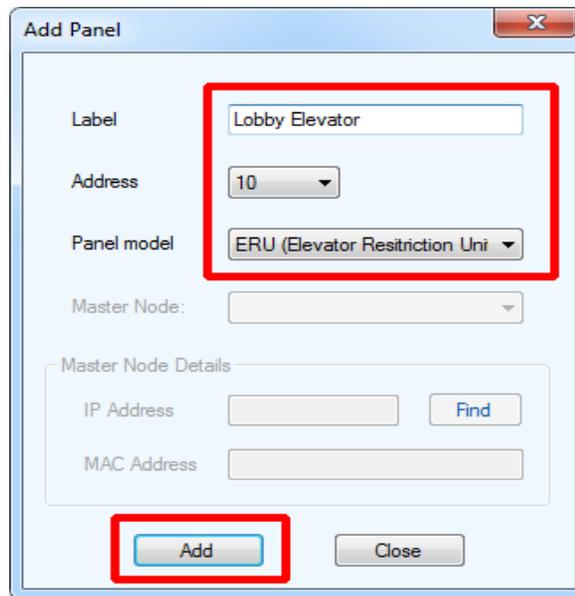
Note: You can add up to 6 Elevator Restriction Units to a job.

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)



The screenshot shows a dialog box titled "Add Panel" with a close button (X) in the top right corner. The dialog contains several input fields and buttons:

- Label:** A text input field containing "Lobby Elevator".
- Address:** A dropdown menu showing "10".
- Panel model:** A dropdown menu showing "ERU (Elevator Restriction Unit)".
- Master Node:** A dropdown menu that is currently empty.
- Master Node Details:** A section containing:
 - IP Address:** An input field with a "Find" button to its right.
 - MAC Address:** An input field.
- Buttons:** At the bottom, there are two buttons: "Add" (highlighted with a red box) and "Close".

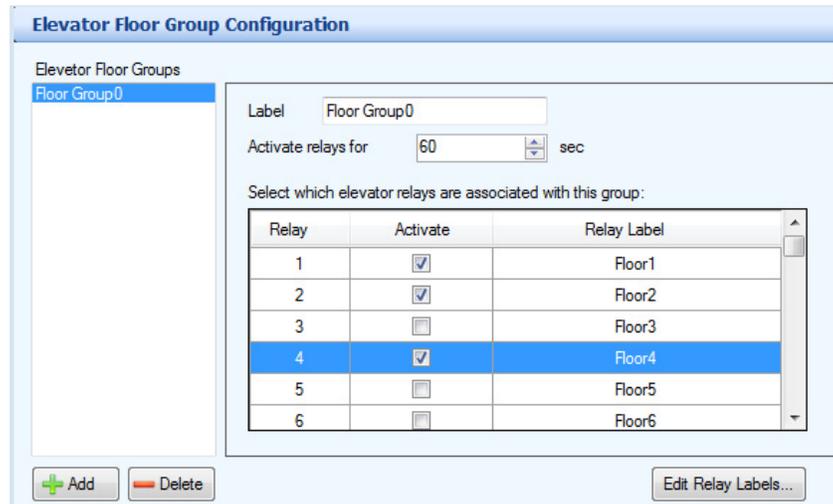
Figure 185. Add ERU

3. Click **Add**.
4. Repeat these steps for every Elevator Restriction Unit in the job.

10.5.2 Create a floor group

1. Select **Floor Groups** from the Job tree.
2. Click **Add**.

Floor Group0 appears.



Relay	Activate	Relay Label
1	<input checked="" type="checkbox"/>	Floor1
2	<input checked="" type="checkbox"/>	Floor2
3	<input type="checkbox"/>	Floor3
4	<input checked="" type="checkbox"/>	Floor4
5	<input type="checkbox"/>	Floor5
6	<input type="checkbox"/>	Floor6

Figure 186. Floor Groups

3. Select the floors that you want in this floor group.

Note: **A maximum of 24 relays can be assigned to floor group.**

4. Provide the following information.

Activate relays for. Specify the amount of time that the ERU relays are active (and the elevator cab buttons are active). This timer starts when the access point reads the card. This means that the timer must be long enough for the elevator cab to descend from the top floor to the lobby, and for the resident to enter the cab and press the button.

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.**

To change the names of the relays

1. Click Edit Relay Labels.

The Edit Elevator Relay Labels window appears.

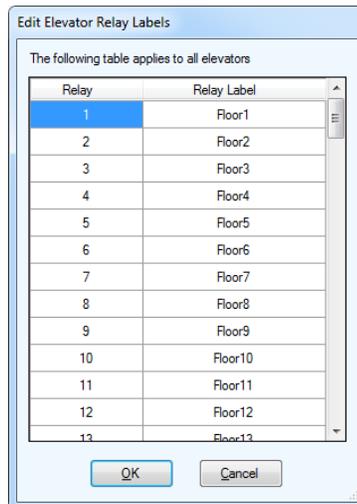


Figure 187. Edit Elevator Relay Labels

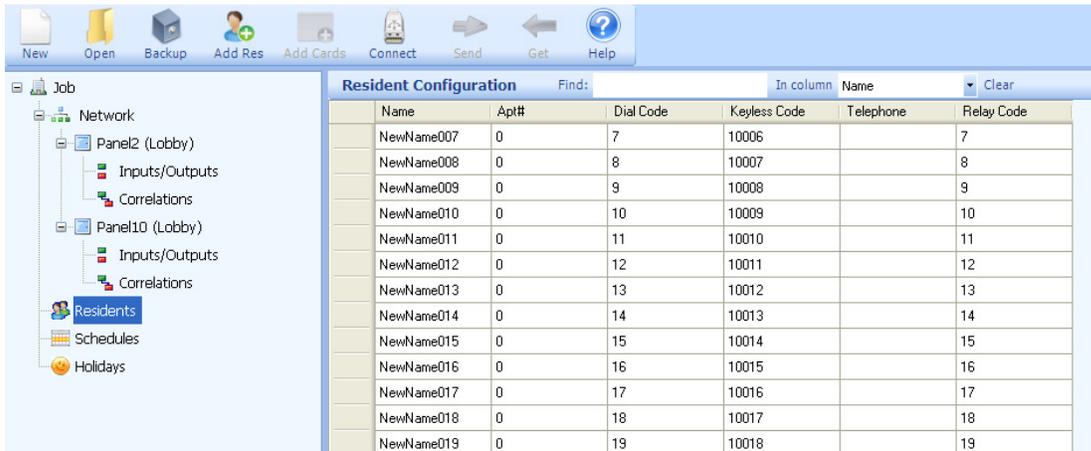
2. Select a relay label, then double-click it.
3. Type a new name for the relay.

Note: Relay labels are the same for all elevator restriction units in the job.

10.5.3 Configure residents for elevator restriction

1. Select Residents from the Job tree.

The Resident Configuration window appears (Figure 188).

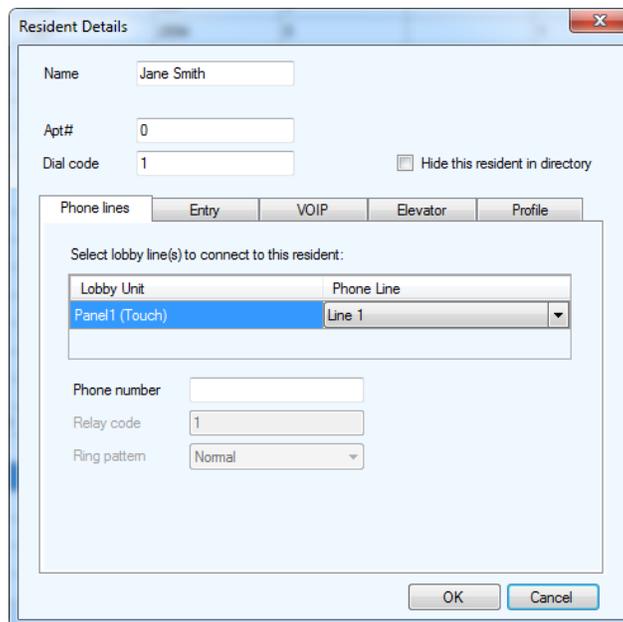


Name	Apt#	Dial Code	Keyless Code	Telephone	Relay Code
NewName007	0	7	10006		7
NewName008	0	8	10007		8
NewName009	0	9	10008		9
NewName010	0	10	10009		10
NewName011	0	11	10010		11
NewName012	0	12	10011		12
NewName013	0	13	10012		13
NewName014	0	14	10013		14
NewName015	0	15	10014		15
NewName016	0	16	10015		16
NewName017	0	17	10016		17
NewName018	0	18	10017		18
NewName019	0	19	10018		19

Figure 188. Resident Configuration List

2. Click Edit > Edit Resident.

The Resident Details window appears.



Resident Details

Name: Jane Smith

Apt#: 0

Dial code: 1 Hide this resident in directory

Phone lines: Entry | VOIP | **Elevator** | Profile

Select lobby line(s) to connect to this resident:

Lobby Unit	Phone Line
Panel1 (Touch)	Line 1

Phone number:

Relay code: 1

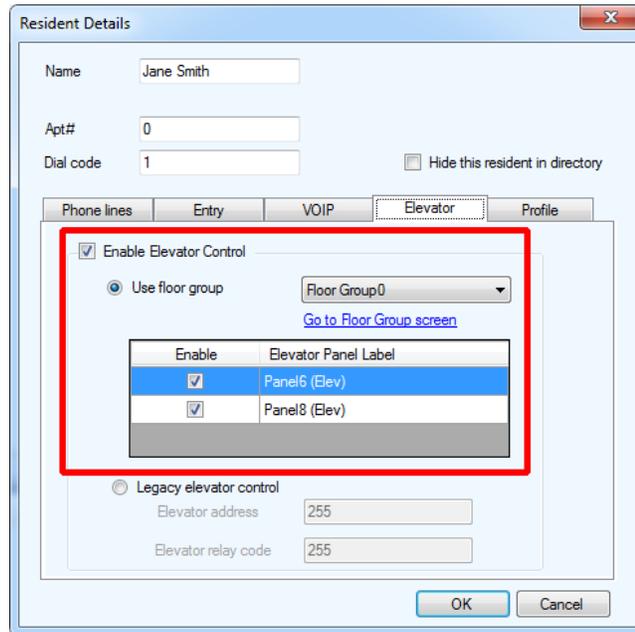
Ring pattern: Normal

OK Cancel

Figure 189. Resident Details

3. Click the Elevator tab.

The Elevator window appears.



Resident Details

Name: Jane Smith

Apt#: 0

Dial code: 1 Hide this resident in directory

Phone lines | Entry | VOIP | **Elevator** | Profile

Enable Elevator Control

Use floor group Floor Group0

[Go to Floor Group screen](#)

Enable	Elevator Panel Label
<input checked="" type="checkbox"/>	Panel6 (Elev)
<input checked="" type="checkbox"/>	Panel8 (Elev)

Legacy elevator control

Elevator address: 255

Elevator relay code: 255

OK Cancel

Figure 190. 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 10.5.2 on page 247.
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.

10.6 Configuring 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:

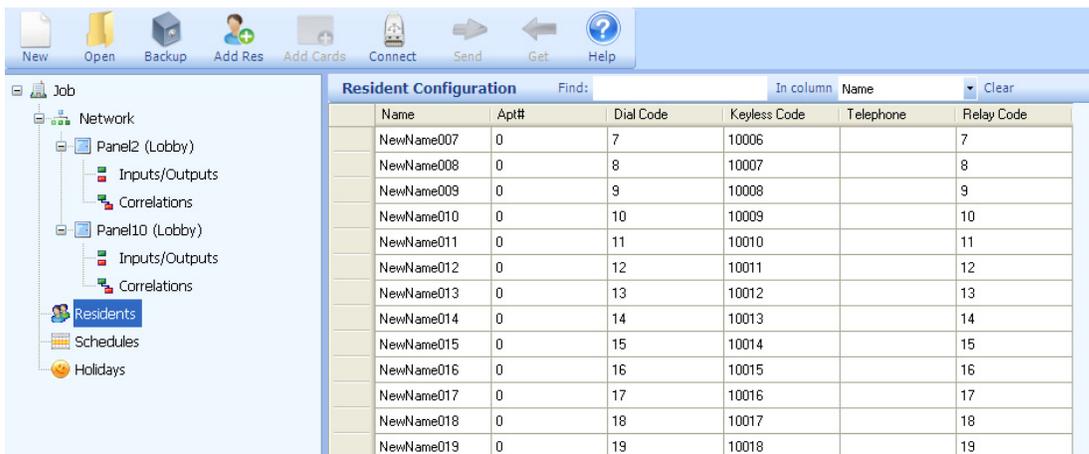
1. Configure a resident for elevator restriction
2. Configure the elevator restriction time

Follow the instructions below to complete these steps.

10.6.1 Configure a resident for elevator restriction

1. Select `Residents` from the Job tree.

The Resident Configuration window appears.



Name	Apt#	Dial Code	Keyless Code	Telephone	Relay Code
NewName007	0	7	10006		7
NewName008	0	8	10007		8
NewName009	0	9	10008		9
NewName010	0	10	10009		10
NewName011	0	11	10010		11
NewName012	0	12	10011		12
NewName013	0	13	10012		13
NewName014	0	14	10013		14
NewName015	0	15	10014		15
NewName016	0	16	10015		16
NewName017	0	17	10016		17
NewName018	0	18	10017		18
NewName019	0	19	10018		19

Figure 191. Resident Configuration List

2. Click `Edit > Edit Resident`.

The Resident Details window appears.

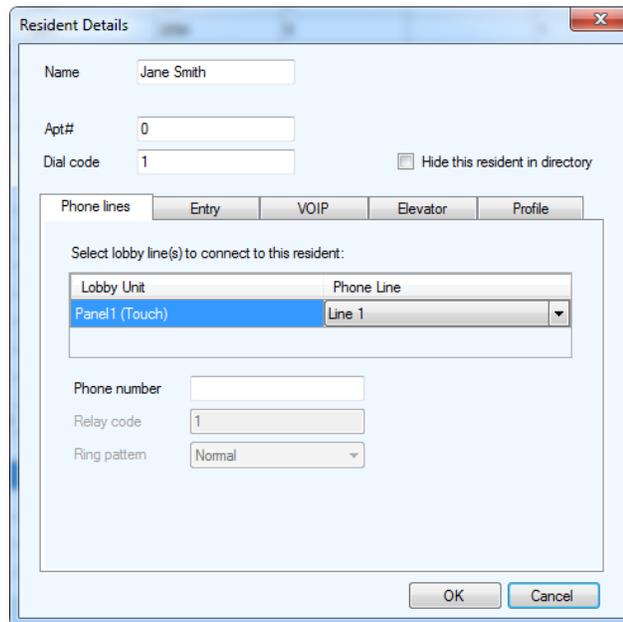


Figure 192. Resident Details

3. Click Elevator.

The Elevator window appears.

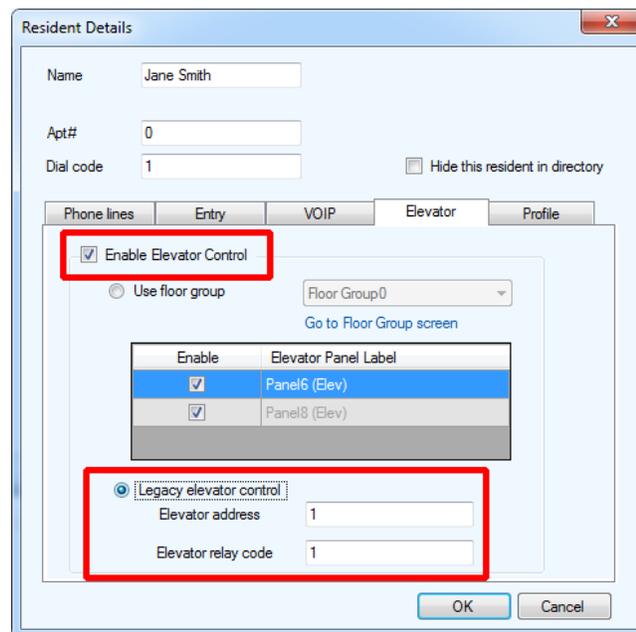


Figure 193. Resident Details - Elevator

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`.

10.6.2 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.

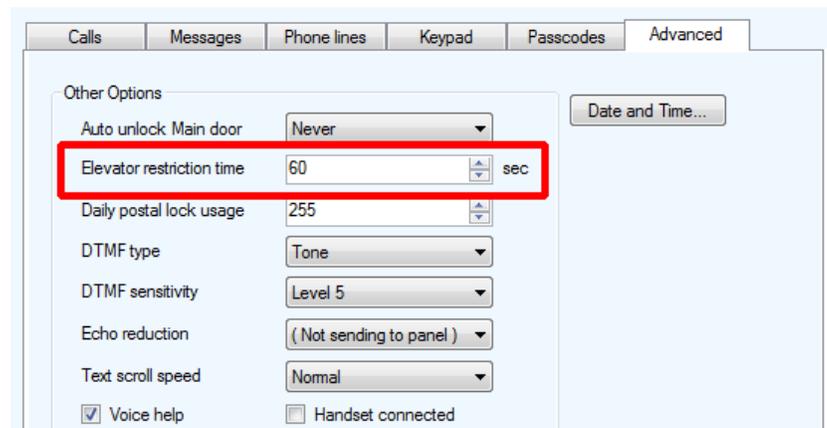


Figure 194. Panel Configuration - Advanced

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 resident access. This means that the timer must be long enough for the elevator cab to descend from the top floor to the lobby, and for the visitor to enter the cab and press the button.

Note: **The minimum is 5 seconds and the maximum is 600 seconds.**

4. Click `OK`, and send the job to the panel.

11 Defining Schedules and Holidays

Touch Screen and Configurator let you assign access levels for card users.

This chapter explains

- Defining Schedules
- Defining Holidays

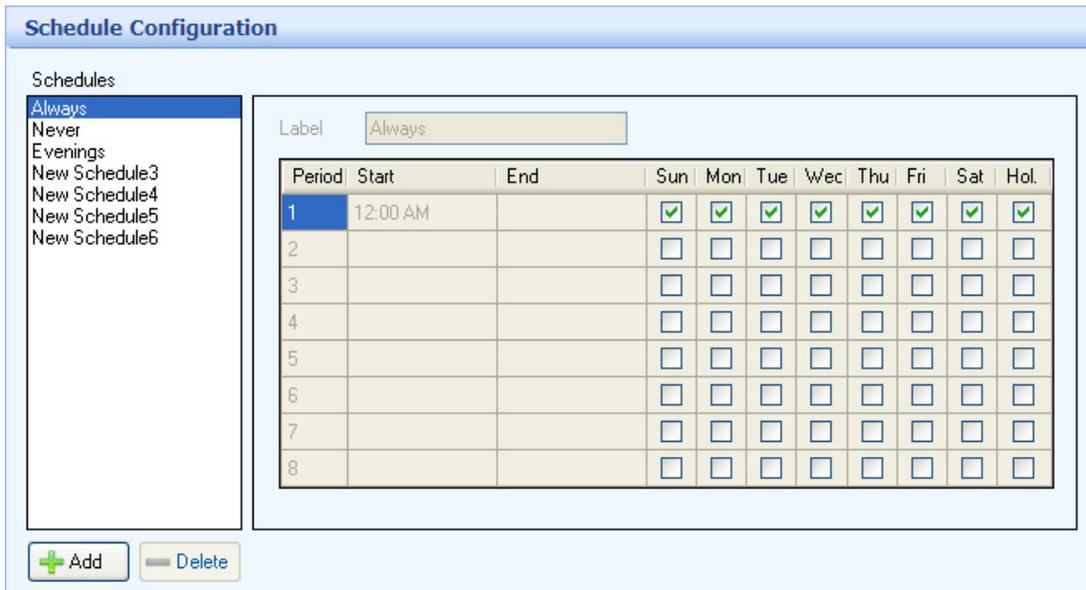
11.1 Defining Schedules

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.

To create a schedule

1. Click **Schedules** from the Job tree. The Schedule Configuration window appears listing the available schedules.



Period	Start	End	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Hol.
1	12:00 AM		<input checked="" type="checkbox"/>							
2			<input type="checkbox"/>							
3			<input type="checkbox"/>							
4			<input type="checkbox"/>							
5			<input type="checkbox"/>							
6			<input type="checkbox"/>							
7			<input type="checkbox"/>							
8			<input type="checkbox"/>							

Figure 195. 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.

To 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.

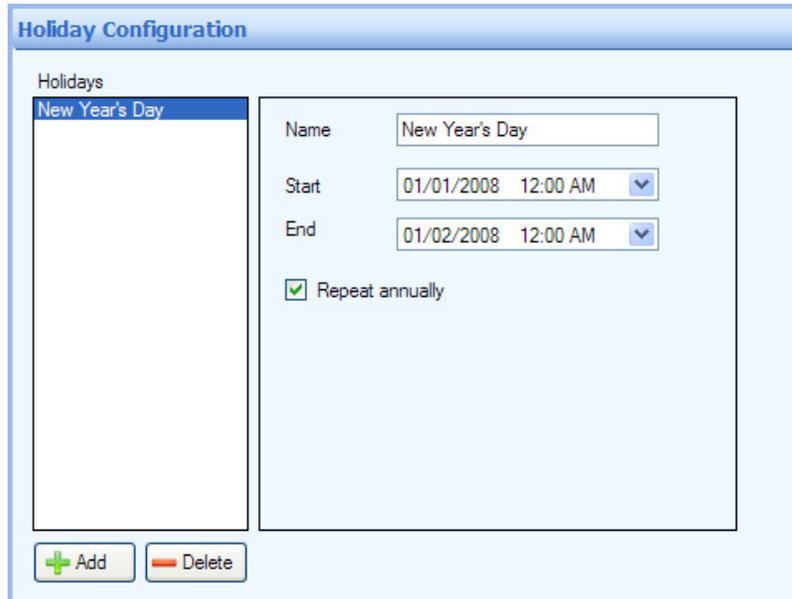
11.2 Defining Holidays

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.

To create a holiday

1. Click **Holiday** from the Job tree. The Holiday Configuration window appears listing the available holidays.



The screenshot shows the 'Holiday Configuration' window. On the left, under the 'Holidays' section, 'New Year's Day' is selected in a list. To the right, the configuration details are as follows:

- Name:** New Year's Day
- Start:** 01/01/2008 12:00 AM
- End:** 01/02/2008 12:00 AM
- Repeat annually

At the bottom of the window, there are two buttons: '+ Add' and '- Delete'.

Figure 196. 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.

To 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.

12 Monitoring and Alerts

Touch Screen and Configurator let you monitor the system information and status.

This chapter explains

- Monitoring
- Alerts

12.1 Monitoring

Touch Screen and Configurator display 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.

To 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.

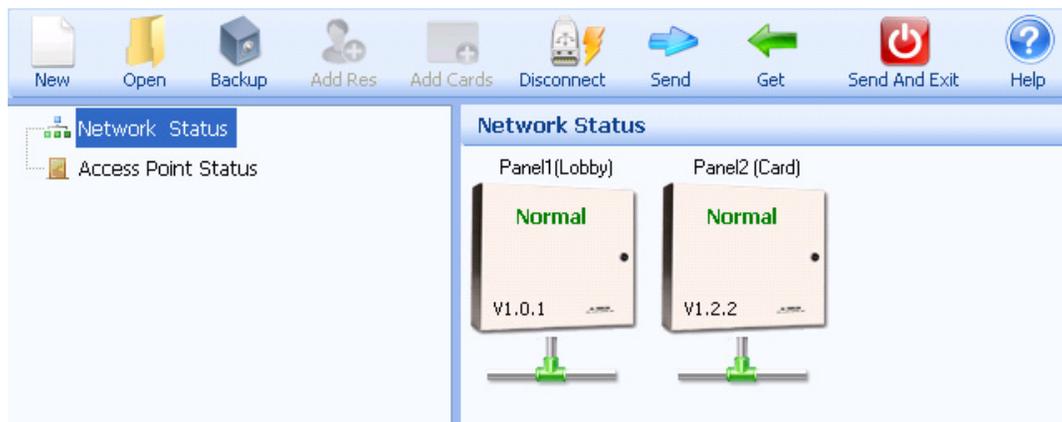
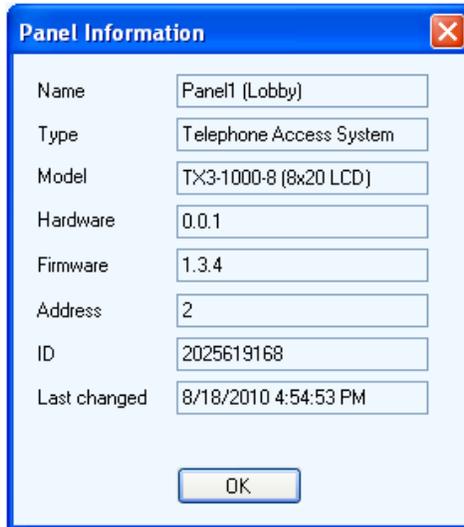


Figure 197. Network Status

4. Click on the panel, and then select from one of the following options:

Panel information. Panel Information shows the panel name, type, model, hardware version, firmware version, network address, network panel ID and the date of the last change.

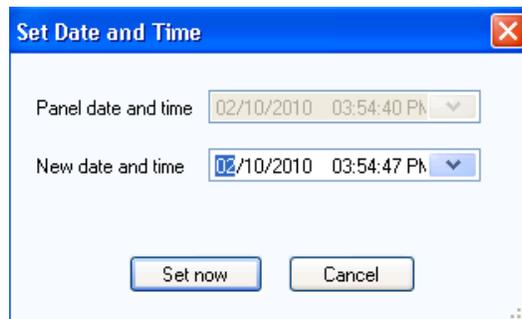


Name	Panel1 (Lobby)
Type	Telephone Access System
Model	TX3-1000-8 (8x20 LCD)
Hardware	0.0.1
Firmware	1.3.4
Address	2
ID	2025619168
Last changed	8/18/2010 4:54:53 PM

OK

Figure 198. Panel Information

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.



Panel date and time	02/10/2010 03:54:40 PM
New date and time	02/10/2010 03:54:47 PM

Set now Cancel

Figure 199. Set Date and Time

Set Panel Passcode. Set Panel Passcode allows you to set the level 3 passcode. In order to connect to the panel, this passcode must match the level 3 passcode on the panel.



The dialog box titled "Set Panel Passcode" contains the following elements:

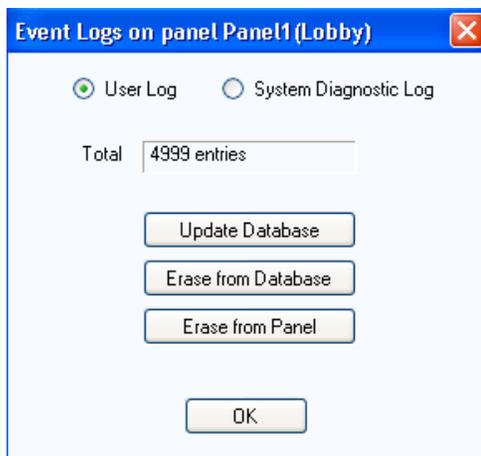
- Text label: "Set level 3 passcode :
- Text input field: "Old passcode"
- Text input field: "New passcode"
- Text input field: "Verify passcode"
- Buttons: "Set Now" and "Cancel"

Figure 200. Set Panel Passcode

Note: The level 3 passcode is initially set at the panel. The default 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.

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.



The dialog box titled "Event Logs on panel Panel1 (Lobby)" contains the following elements:

- Radio buttons: "User Log" (selected) and "System Diagnostic Log"
- Text label: "Total" followed by a text input field containing "4999 entries"
- Buttons: "Update Database", "Erase from Database", "Erase from Panel", and "OK"

Figure 201. Set Date and Time

12.1.2 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.

To 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.

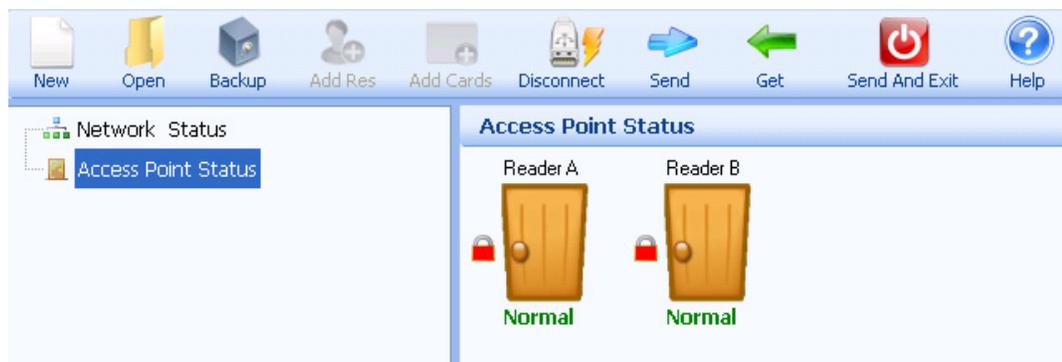


Figure 202. Access Point Status

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. The Grant access option is **not** available for Aperio wireless locksets.

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.

Note: For Aperio wireless locksets, the remote open option must be set in order to set unlock mode on or off. Use the Aperio Programming Application to set remote open option. For details, see Chapter 2 of LT-1160 (Aperio Door Controller Installation Manual).

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.

Details. (Aperio wireless locksets only) Opens a window with the status of the wireless lockset, including the battery status of the lockset.

5. If you want to send a command to the access point (for example, **Unlock mode ON**), click on the command.

12.2 Alerts

The Configurator can send an email message when a specific event happens.

To set up email alerts

1. Click **Tools > Alert Setup**.

The Alert Setup Form appears.

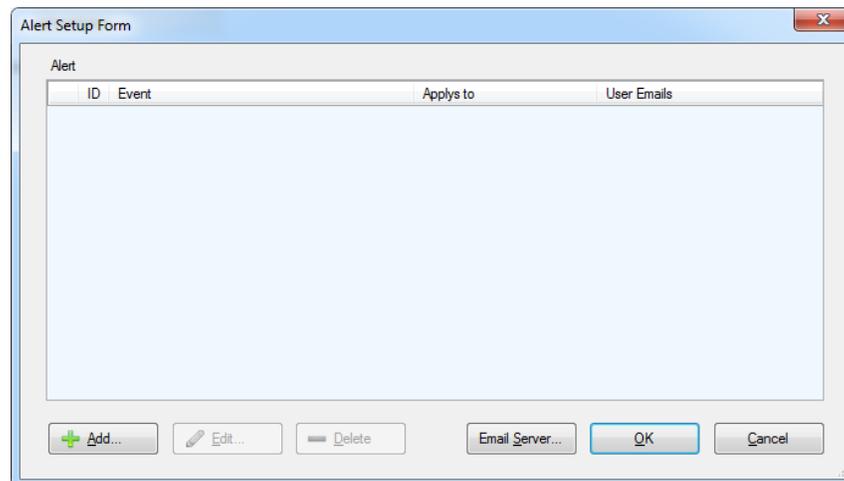


Figure 203. Alert Setup Form

2. Click Email Server.

The Email Messages window appears.

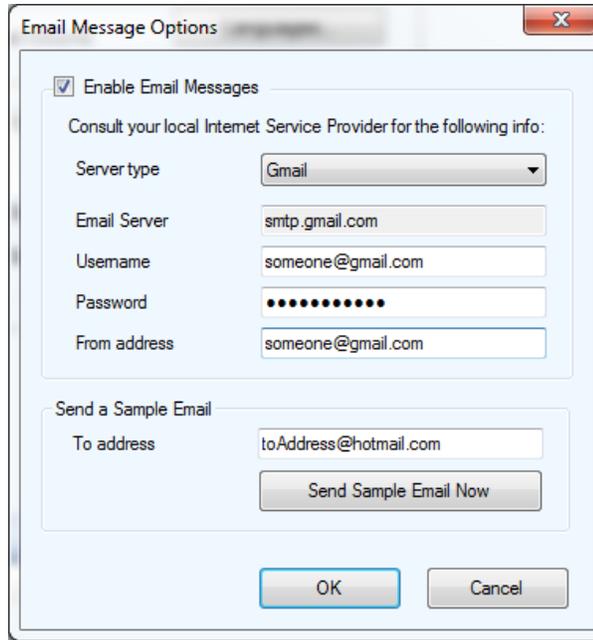


Figure 204. Touch Screen Email Messages

Note: These email options do not affect the email message options in the Touch Screen Options. See section 4.7.3 on page 125.

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`.

To set up email alerts

1. In the Alert Setup form, click `Add`.

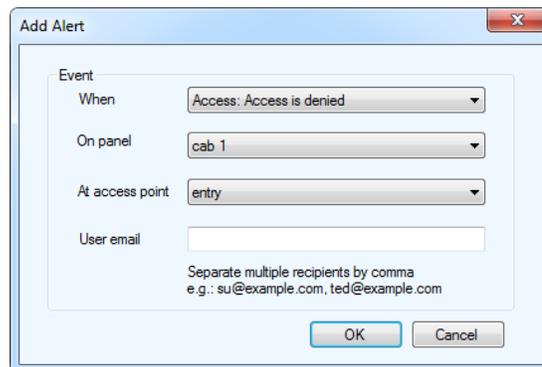


Figure 205. Add Alert

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 page 267.

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 denied. Access is denied.

Access: Forced entry alarm. A door is forced open.

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 is normal. (Aperio) The battery at the lockset has returned to a normal state.

Access: Battery is low. (Aperio) The battery at the lockset is low.

Access: Battery is flat. (Aperio) The battery at the lockset is flat.

Access: Lockset is offline. (Aperio) The lockset is not communicating with its Aperio hub.

Access: Lockset is online. (Aperio) The lockset has resumed communicating with its Aperio hub.

Access: Door is locked. (Aperio) The Unlock time has expired.

Access: Door is unlocked. (Aperio) The door is unlocked.

Access: FC not matching. Access denied. When Facility code mode is enabled, access is denied because the facility code is invalid. See section 6.2 on page 172.

Access: PIN not matching. Access denied. During the PIN required schedule, access is denied because the PIN is invalid. See section 6.2 on page 172.

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 6.2 on page 172.

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 on page 223.

Access: Card not active. Access denied. Access is denied because the card's Status is Inactive. See section 9.1.2 on page 223.

Access: Card expired. Access denied. Access is denied because the card's Deactivation date has passed. See section 9.1.2 on page 223.

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 on page 228.

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 6.2 on page 172.

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 6.2 on page 172.

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. On an Aperio system, the list holds 10 cards. While the list is full, access is denied.

Access: Hub is online. (Aperio) The hub is connected to the panel.

Access: Hub is offline. (Aperio) The hub is disconnected from the panel.

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 jammed. (Aperio) The door is jammed.

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 5.1.8 on page 146.

Lobby: Unlock mode is turned off (lobby). The Auto unlock Main door schedule becomes inactive. See section 5.1.8 on page 146.

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 5.1.4 on page 142.

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 5.1.4 on page 142.

Lobby: Keyless code not found. The resident's keyless entry code is invalid. See section 5.5 on page 156.

Lobby: Main and Aux door are open. The resident opens both the main and auxiliary door with keyless entry. See section 5.5 on page 156.

Lobby: main door is open. The resident opens the main door from the keypad. See section 5.1.6 on page 144.

Lobby: Auxiliary door is open. The resident opens the auxiliary door from the keypad. See section 5.1.6 on page 144.

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 the limit. The daily postal lock usage is exceeded. See section 5.1.8 on page 146.

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 5.1.4 on page 142.

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.

To generate a report of the event logs

1. Click the **Reports** menu, then click **Event Log**.

The Event Log Report Options window appears.

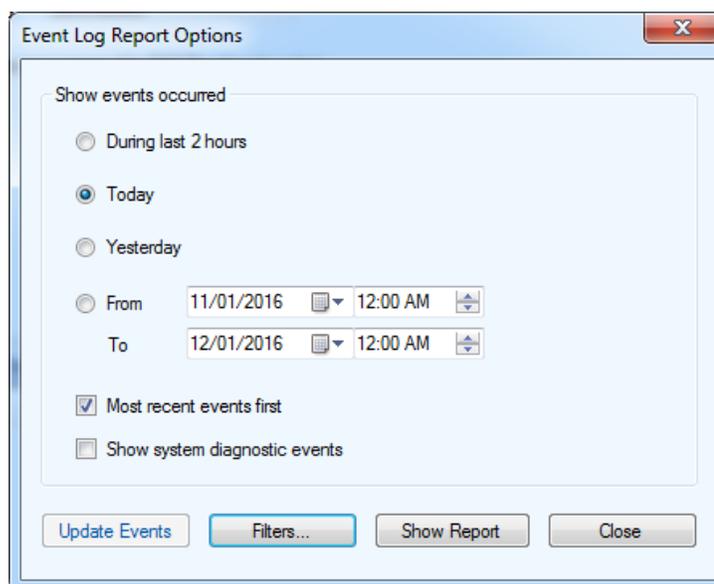


Figure 206. Event Log Report Options

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.

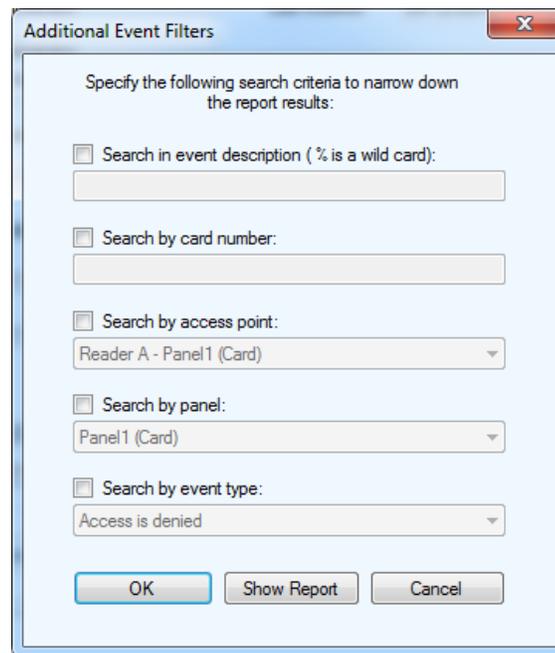


Figure 207. Additional Event Filters

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.

To generate a report of the residents

1. Click the **Reports** menu, then click **Residents**.

The Resident Report Options window appears.

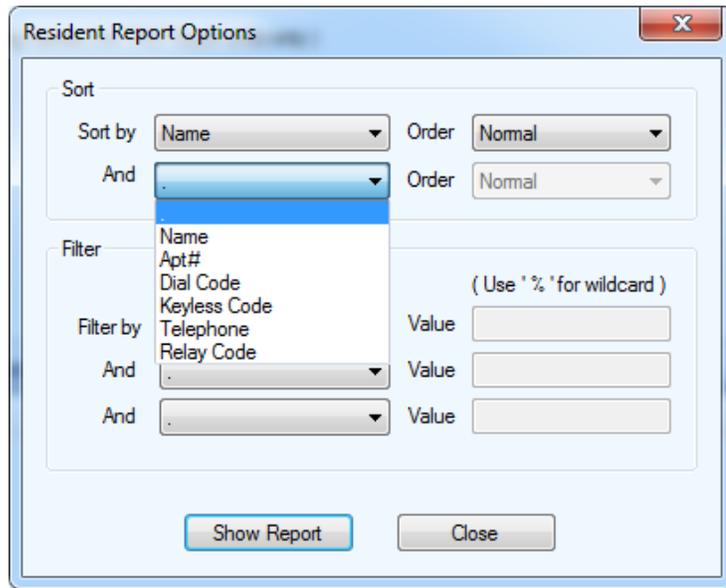


Figure 208. Resident Report Options

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 209).

In the **Order** menu, select **Reversed** to sort the residents in the opposite direction.



Resident Report

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 209. 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.

To generate a report of the access cards

1. Click the **Reports** menu, then click **Access Cards**.

The Access Card Report Options window appears.

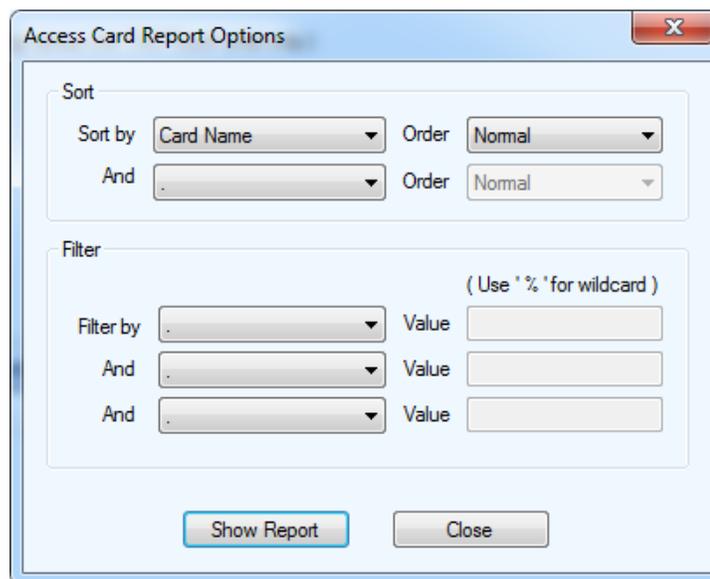


Figure 210. Access Card Report Options

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 211).

In the **Order** menu, select **Reversed** to sort the cards in the opposite direction.



Access Card Report

Card Name	Card Number	Facility Code	Access Level
Hades	3	0	Admin
Hera	5	0	Admin
Hermes	6	0	Admin
Persephone	2	1	Admin
Zeus	4	1	Admin
Ares	8	1	Admin

Figure 211. 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.

To generate a paper directory

1. Click the Reports menu, then click Paper Directory Report.

The Paper Directory Report Options window appears.

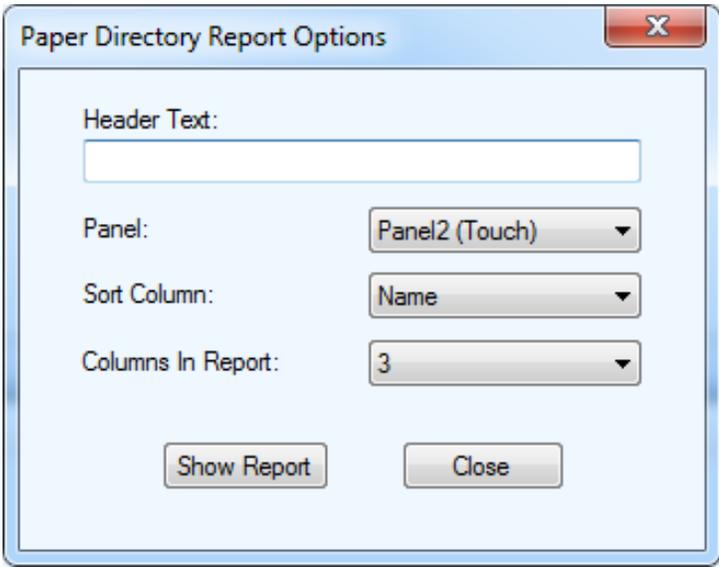


Figure 212. Paper Directory Report Options

2. Provide information for the following:

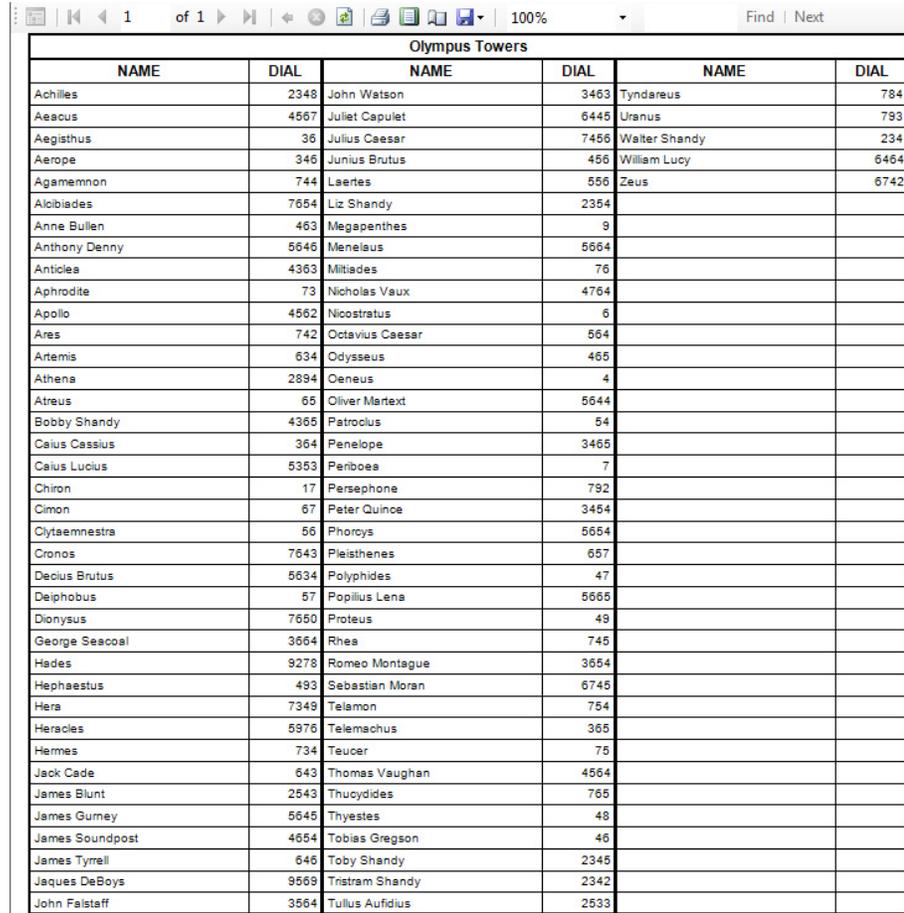
Header Text. This text will appear at the top of the report.

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 have 1, 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	Telemon	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 Tyrnell	646	Toby Shandy	2345		
Jaques DeBoys	9569	Tristram Shandy	2342		
John Falstaff	3564	Tullus Aufidius	2533		

Figure 213. Paper Directory in a 3-column layout

13.5 Save and Print the Report

To save the report

- Click the disk menu and select Excel or Acrobat PDF file.

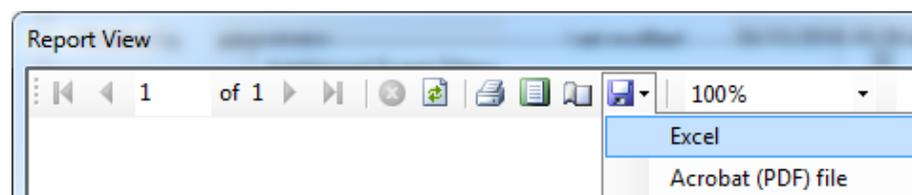


Figure 214. Report format

To print the report

- Click the printer icon.

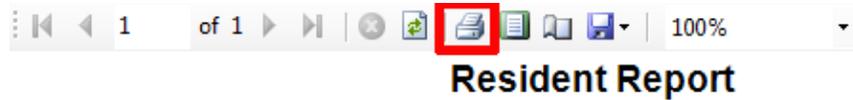


Figure 215. Print the report

13.6 Other Options in the Report Window



Go to the first page.



Go to 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 Appendix

The Appendix provides additional information about the Touch Screen.

This chapter explains

- Configurable User Interface Elements

14.1 Configurable Touch Screen User Interface Elements

The following tables describe the user interface elements as shown in Figures 66, 70 and 71.

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

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

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
Event screen font color	Color of the font that is used in the event screen that appears when calling a resident

General (Continued)	
Element	Description
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

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

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

Keyboard Buttons (Continued)	
Element	Description
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

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

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

Miscellaneous (Continued)	
Element	Description
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,
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

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

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
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

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

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