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**User Guide,  
iMonitor v1.5**

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## Important Precautions and Useful Information

This preface contains information that will help you understand and safely maintain MCE equipment. We strongly recommend you review this preface and read this manual before installing, adjusting, or maintaining Motion Control Engineering equipment. This preface discusses:

- Safety and Other Symbol Meanings
- In This Guide

## Safety and Other Symbol Meanings



### Danger

This manual symbol is used to alert you to procedures, instructions, or situations which, if not done properly, might result in personal injury or substantial equipment damage.



### Caution

This manual symbol is used to alert you to procedures, instructions, or situations which, if not done properly, might result in equipment damage.

### Note



This manual symbol is used to alert you to instructions or other immediately helpful information.

## In This Manual:

This manual is the installation and operation guide for the iMonitor monitoring application. When viewed online as a pdf file, hyperlinks link to related topics and informational websites. The manual includes:

- [Contents](#): Table of Contents. When viewed online as a pdf file, hyperlinks in the Contents link to the associated topic in the body of the manual.
- [Section 1](#). iMonitor general description and installation instructions.
- [Section 2](#). Quick Start: Quick instructions for getting started using iMonitor.
- [Section 3](#). Reference: Detailed explanation of screen controls.
- [Index](#): Alphabetical index to help you find information in the manual. When viewed online as a pdf file, index entry page references are hyperlinks to the associated information in the manual.



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## Quick Topics

- iMonitor
- Installation
- Establishing Connections



## iMonitor

1



### iMonitor

iMonitor is an elevator, escalator, or moving walk monitoring application that allows local or remote viewing and control of MCE transportation groups using a personal computer running the Windows XP operating system. iMonitor connects to controllers through a local area network or remotely through internet/modem technology.

iMonitor provides a graphical representation of building transportation groups, allowing their activity and status to be quickly and easily viewed. The user defines any number of “Connection Sets.” Each Connection Set consists of up to fifty connections to transportation group dispatchers selected by the user.

When working in iMonitor, the user simply clicks on a Connection Set which automatically establishes communication with all groups in the set and displays their associated hoistways and cars or steps/belts on the computer screen. Practical viewing limits are established by the speed of the connections and the size of the monitor viewing area.

Through iMonitor, you may register car and general, auxiliary, or special hall calls, control many group security functions, and enable or disable certain operating modes if these functions are supported by the controller with which you are communicating. There will be differences in the extent of control available depending on controller type.



#### Note

This manual describes all iMonitor software features. If you are connected to a controller other than an iControl, not all features will be supported by your controller.

## Installation

Installing iMonitor includes:

- Determining hardware requirements
- Installing monitor software
- Establishing connections

## Determining Hardware Requirements

MCE iControl, Motion 4000, Motion 2000, and Motion 3000ES controllers are Ethernet ready from the factory. MCE IMC and PTC/PHC controllers require additional hardware.

- IMC (v4.0 and later): Requires an MC-USN (Universal Serial Networking) board and a power transformer. Kit available from MCE.
- PTC or PHC: Requires an MC-USN (Universal Serial Node) board, an MC-M2C (MCE to CAN bus converter) board, and a power transformer. Kit available from MCE.

If you want to connect to an IMC, PTC, or PHC controller, please contact MCE for the appropriate kit and installation instructions.

## Installing iMonitor Software

If you purchased your iMonitor PC through MCE, iMonitor has already been installed. If you need to install iMonitor software, make certain that the PC and monitor meet minimum requirements:

- 1GB or more RAM, 80GB or greater hard drive
  - Microsoft Windows XP Service Pack 2 or greater
  - Intel 1.6 GHz Core Duo Processor or equivalent
  - CD-ROM, 10/100 Ethernet capable
  - 1280 x 1024 capable monitor, 17" diagonal display minimum (\* see note)
1. Uninstall any previous versions of iMonitor. (See Old Versions below.)
  2. Insert the CD-ROM or download the iMonitor program and copy it to the computer desktop.
  3. Open the iMonitor folder and double-click on the LaunchSetup.exe program.
  4. Follow on-screen instructions.

### Note



**View Only:** The View Only installation option will install a subset of iMonitor that allows viewing but does not allow control options to be exercised.

## Old Versions

If you have an older version of iMonitor already installed on the computer, use the Add/Remove Program function from the Windows Control Panel to remove it before installing new software.

## Establishing Local Connections

The iMonitor PC may be connected to individual or group controllers locally or remotely through the internet or using a dial-up modem. Connection information for iControl is provided in this section. If you are connecting to a different controller type, follow the instructions included with the hardware interface kit or controller instruction manual.

### MCE iControl Ethernet

MCE iCue elevator group controls use two local Ethernet networks. The first of these, the System network, is only used for immediate elevator traffic control. No PC or other non-iControl/iCue connections may be made to this network. This network uses orange cabling to set it apart from the second, iView network (blue cabling).

The iView network provides the point of connection for both iView and other PC or network related equipment. You can identify the Ethernet switch for the iView network by checking:

- The switch is labeled “LAN.” Connections from the switch to the individual iControl elevators in the group are plugged into the #1 = LAN connection on the iControls.
- The iView PC for the group is connected to this switch.
- The connection from the switch to the iCue Group control is to the group control LAN connection.



The factory-default TCP/IP information for an iCue/iControl elevator group is:

**Table 1.1 System, LAN, & 3=PC TCP/IP Addresses**

switch	Group ID	Group IP Primary & Backup	Car ID	Car IP	System/Serial Hall Call Bus 1 - 4	Free
LAN	1	192.168.191.201-202	1-20	192.168.191.001-020	192.168.192.211-214	192.168.191.101-200*

\* The iView PC typically uses 192.168.191.101

The default Subnet Mask for all ports is 255.255.255.000.

The default Gateway for the #1 (LAN) is 192.168.191.254.

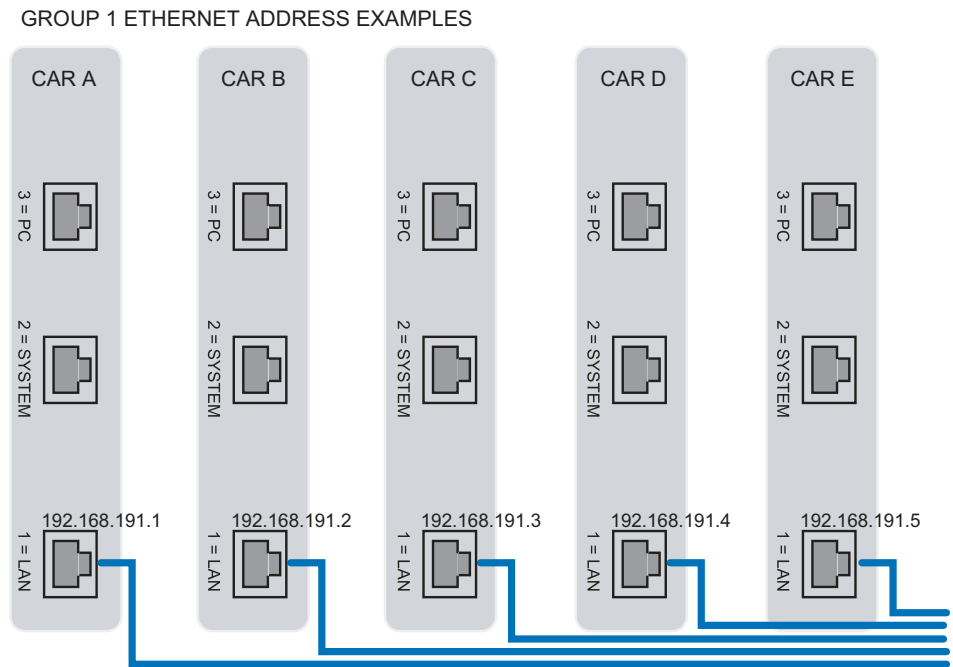
### Authorization

Before iMonitor is allowed to view and control an iControl system, authorization for the connection must exist within the system to be monitored. If you attempt to connect to an unauthorized system, iMonitor will display an authorization required message. For iControl systems, authorization is configured through the iView application:

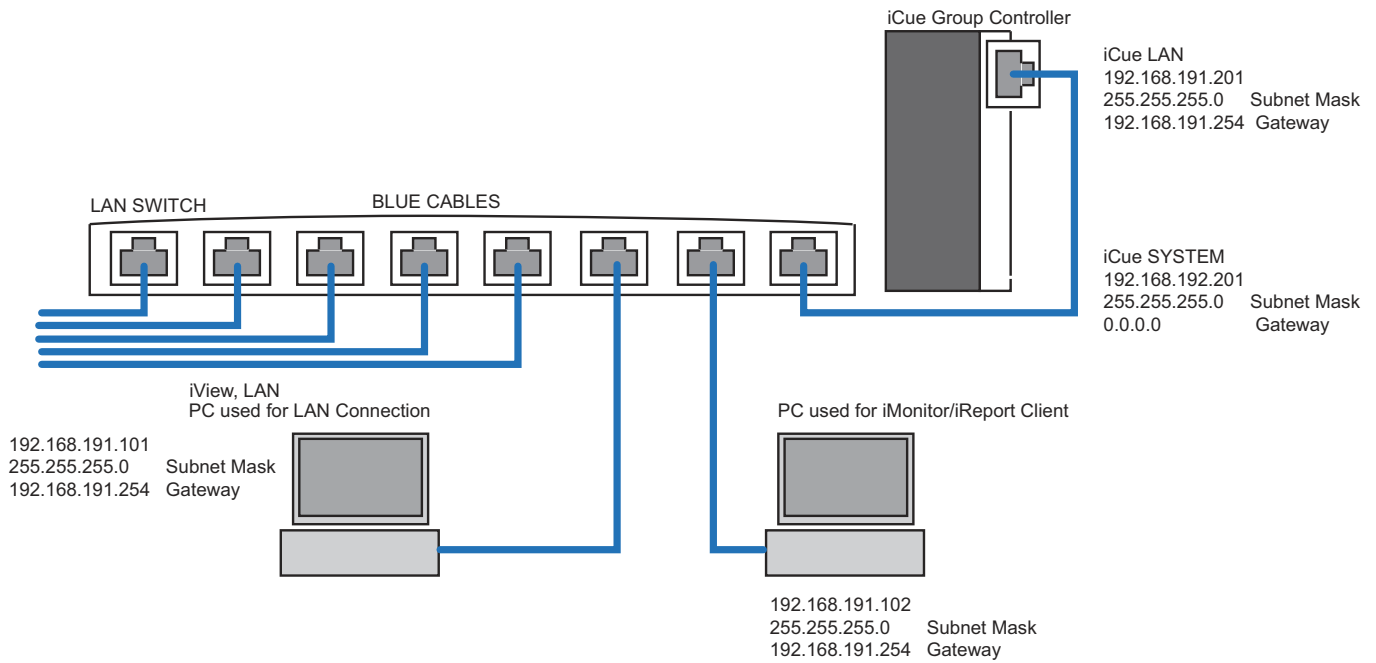
1. Connect to the system to be monitored using iView.
2. iView/System/Remote Monitoring Authorization.
3. The Remote Monitoring Authorization screen displays a hardware key unique to the system.
4. Contact MCE Customer Support at 916 463 9200 and provide them the hardware key.
5. MCE will provide you with an authorization code.
6. Enter the authorization code on the iView Remote Monitoring Authorization screen

The illustration below shows a single, typical iCue/iControl group with a locally connected iMonitor PC.

Figure 1.1 Typical iControl LAN Connections, Elevator Group 1



# Establishing Local Connections



1

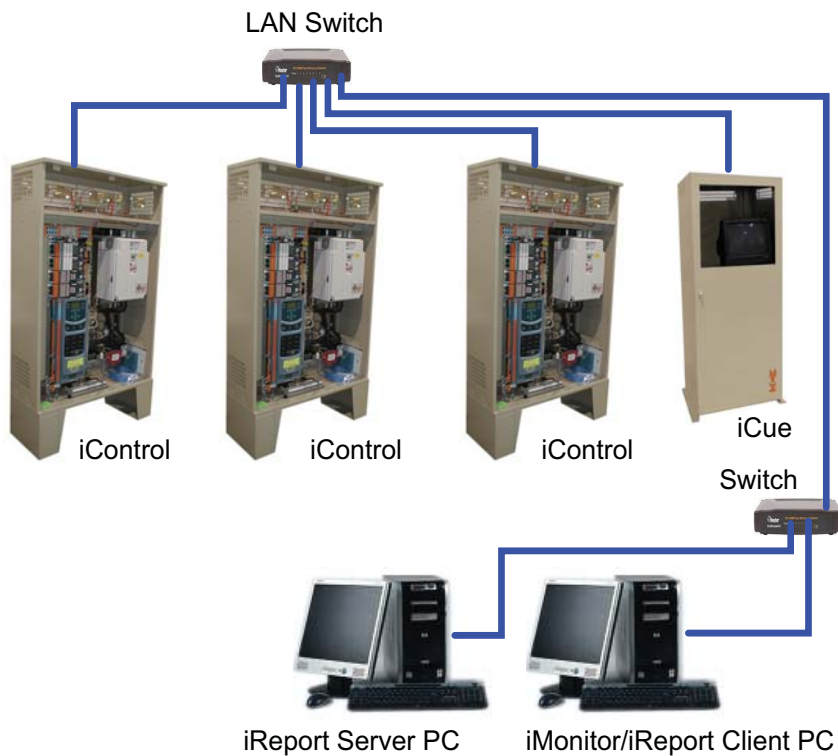
## iControl Local Connection

Local connections are those not requiring a VPN.

### One Group

The following illustration shows a same-site iMonitor installation for a single group.

Figure 1.2 Local Connection to Single Group

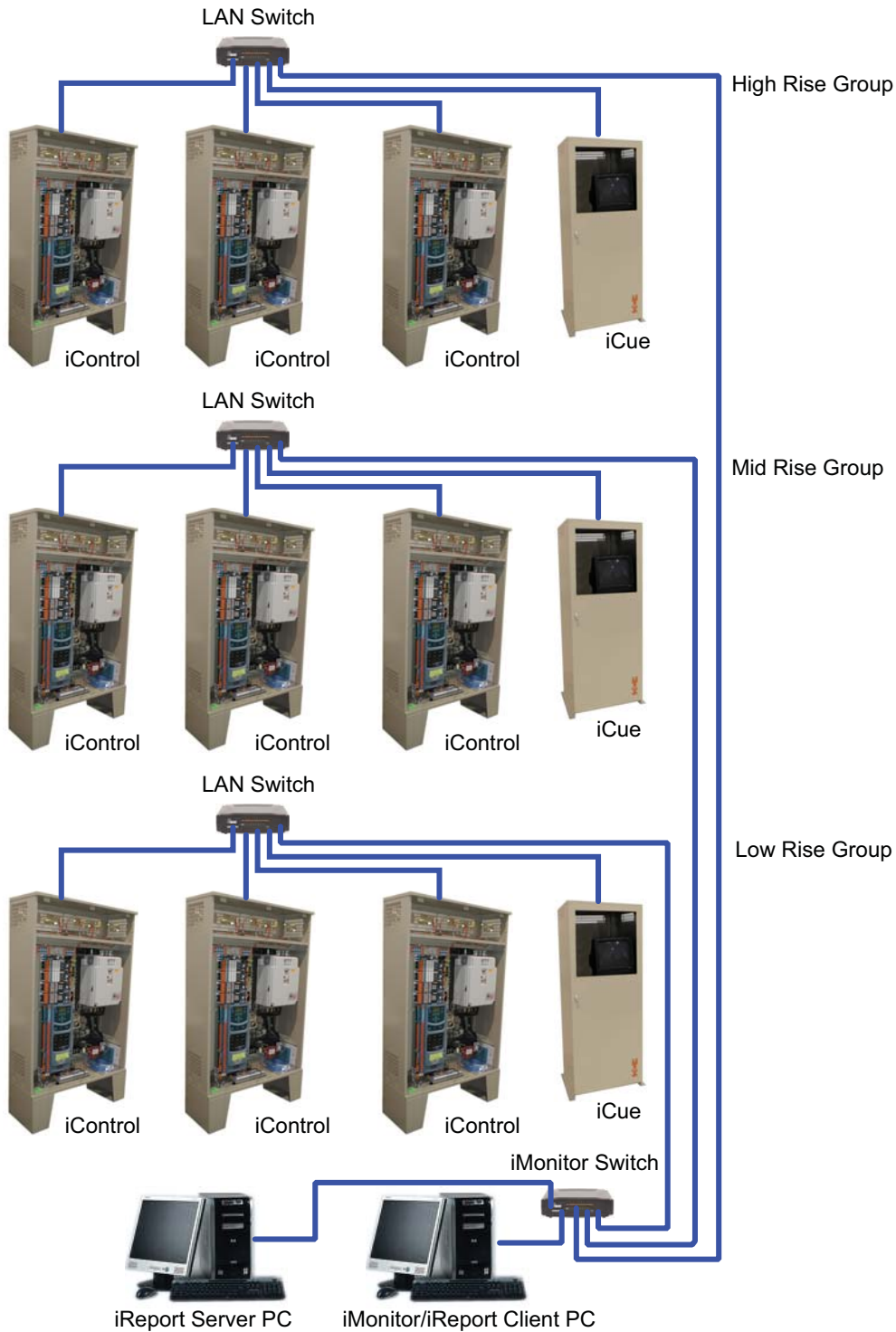


### Restrictions

- No single Ethernet cable may be longer than 100m (330 feet).
- If any single cable run will exceed 100m, an Ethernet hyperextender or fiber-optic to Ethernet converters must be used.
- All IP addresses on an interconnected network must be unique.
- Use shielded CAT 5e or CAT 6 STP (shielded twisted pair) cable and follow all manufacturer recommendations.

## Multiple Machine Rooms / Dedicated Elevator LAN

Figure 1.3 Multiple Machine Rooms / Dedicated Elevator LAN



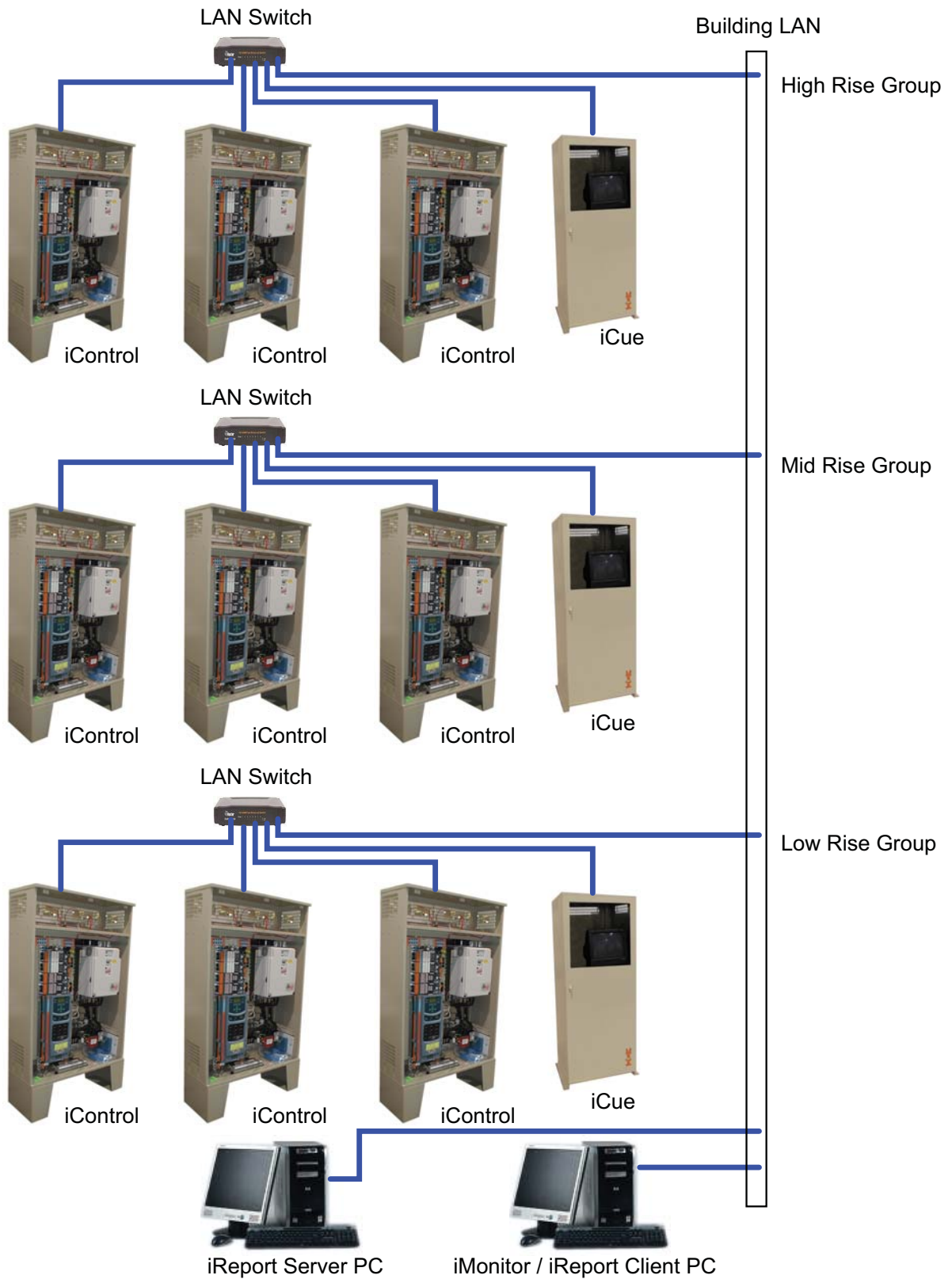
1

### Restrictions

As with single group connections.

# Multiple Machine Rooms with Existing Building LAN

Figure 1.4 Multiple Machine Rooms Through Building LAN





### Restrictions

In the example above, each group LAN switch is connected to a cable drop or Ethernet port located in the machine room. Each machine room and the iMonitor station should be “cross-connected” by the building IT department. It is good practice to isolate the elevator network on its own VLAN if practical.

To facilitate this type of connectivity, each device connected to the network needs a static IP address:

- iBox
- iCue PC
- iView PC
- iMonitor PC
- iReport Server PC
- Motion 2000 hydraulic control
- Motion 4000 traction control
- MC-USN (Ethernet adaptor used in IMC and HMC controllers)

The building IT department should provide a static IP address for each device. DHCP can be used for the iMonitor / iReport Client PC only. Please obtain the following from the building IT department:

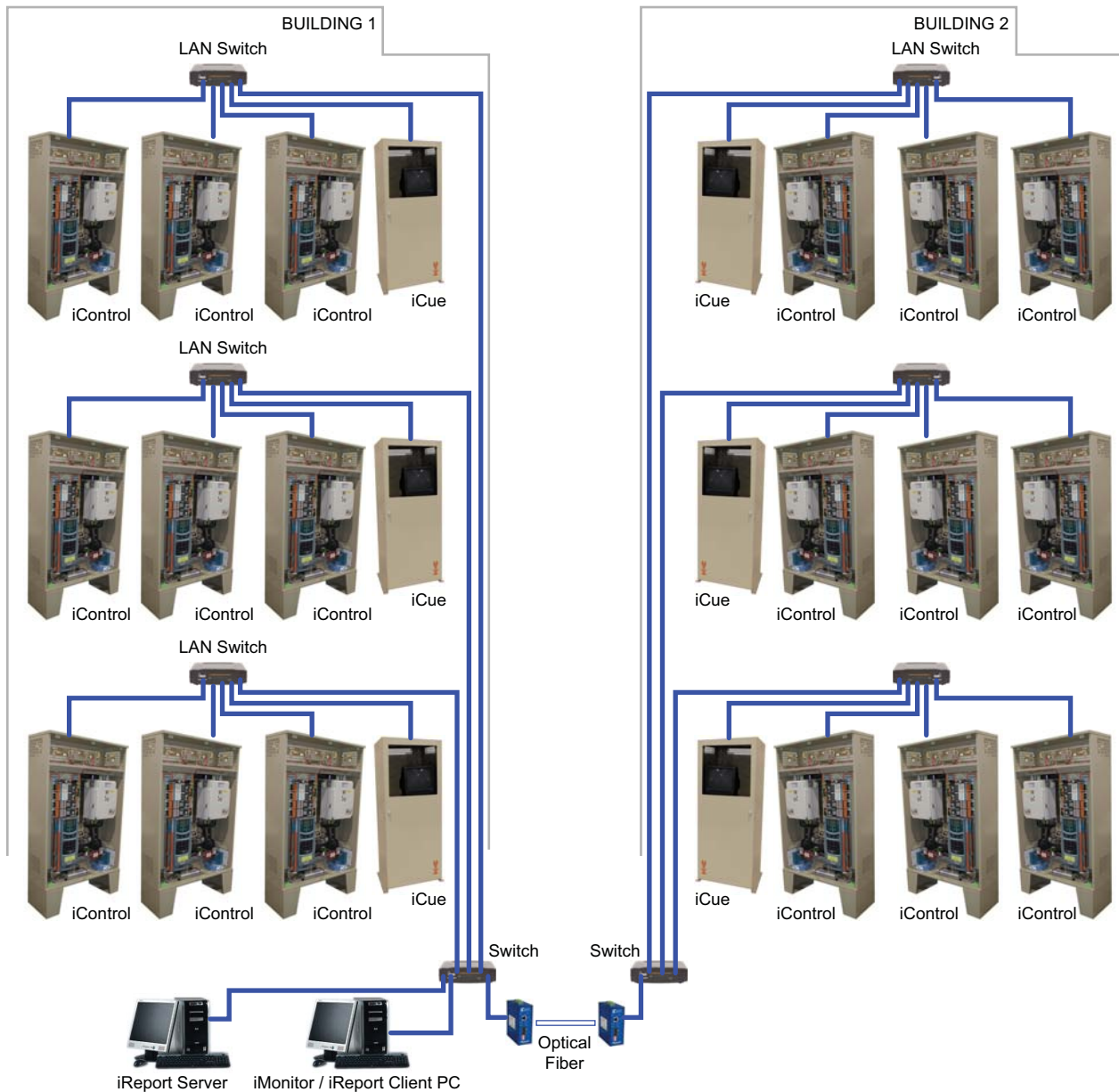
- IP address
- Subnet mask
- Gateway

Enter the address information into the LAN address of each iBox, as well as the LAN address of each iCue. Also change the IP address for each iView, iMonitor / iReport Client, and iReport Server PC.

## Two or More Buildings

In the example below, Ethernet cables are run from the LAN switches of the groups down to a switch in the lobby. iMonitor / iReport Client and iReport Server PCs are also connected to the lobby switch. Finally, the lobby switches in each building are connected to one another through a fiber optic link.

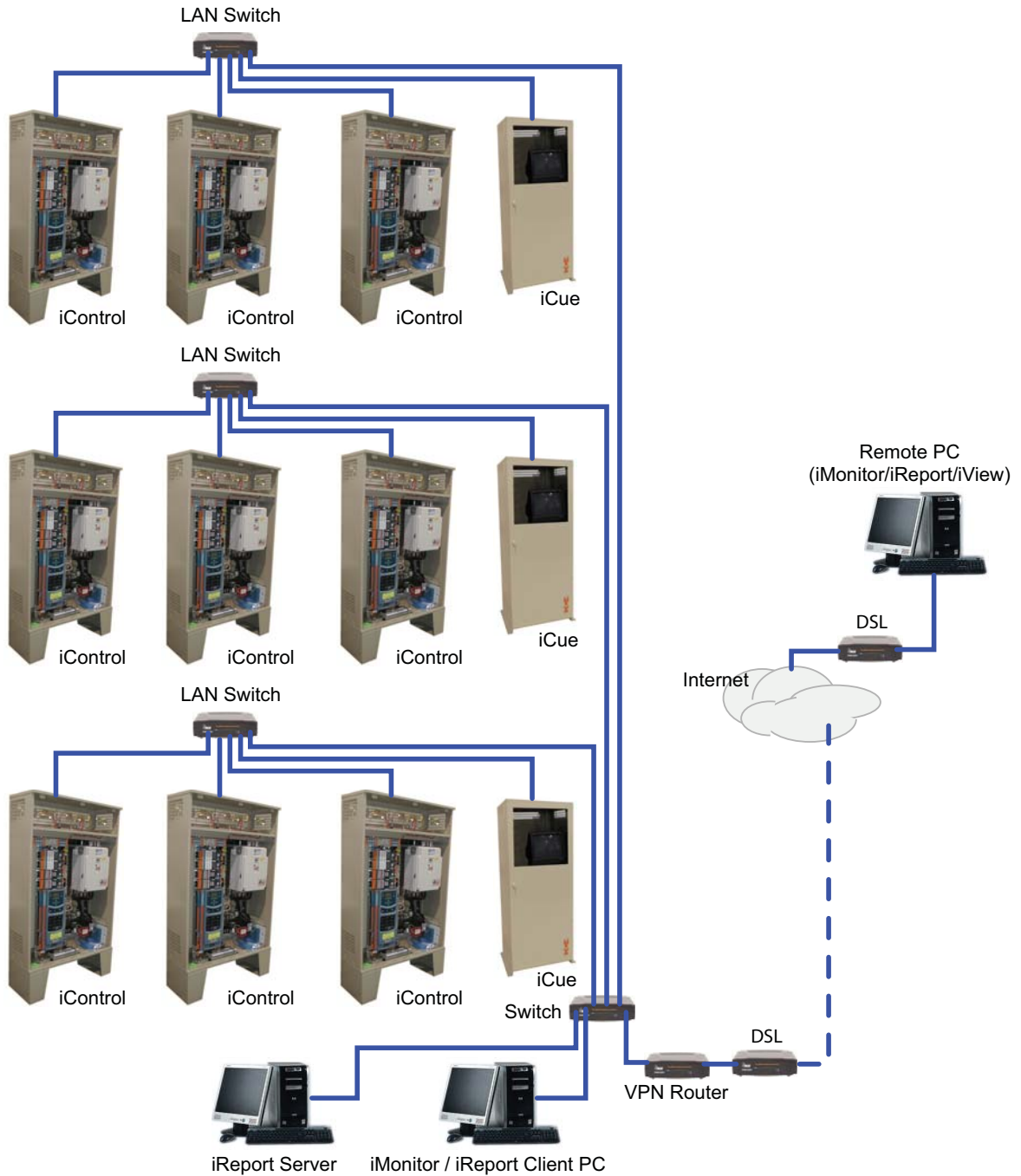
Figure 1.5 Two or More Buildings



# Remote Connection

If iMonitor is to be installed at a remote location, a high-speed internet connection and a VPN router are required.

Figure 1.6 Remote Connection using a DSL Modem and a VPN Router



1



- iMonitor
- iMonitor Quick Start



### iMonitor

iMonitor is a straightforward, graphical user interface. This manual section provides a quick tour of iMonitor with high level explanations of functionality. For additional detail, refer to Section 3.

- iMonitor Quick Start
- Create a Connection Set
- Monitor a Set
- Detailed View
- Multiple Hoistway View
- Campus View
- iLobby
- Register Calls
- Security
- Remote Control Menu
- Diagnostics
- Tools Menu
- Help Menu


Note 

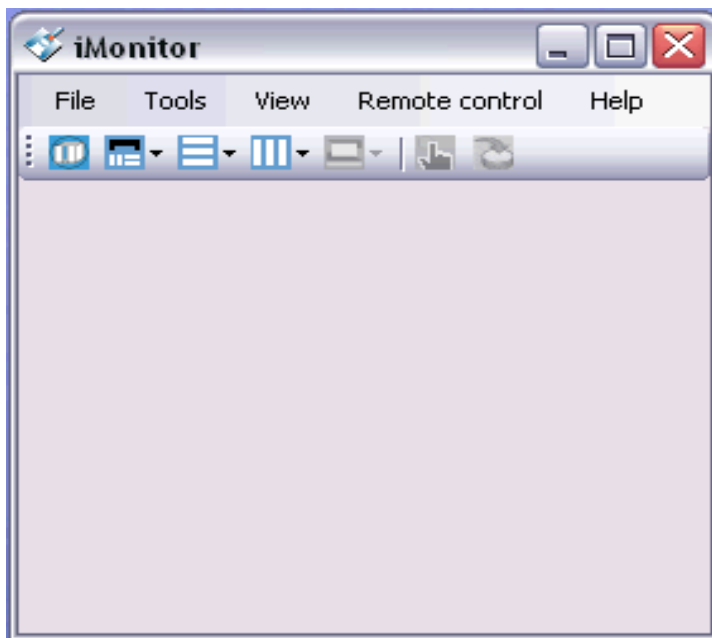
iMonitor is functional with both current and older group controllers. This manual documents the screen appearance and functionality of iMonitor connected to a current release controller. If you are connecting to an older controller, all of the capabilities documented here may not be available and screen appearances and controls may be different.

## iMonitor Quick Start

 **Note**

Before iMonitor can access a controller or group, authorization may need to be granted by the controller or group. Refer to the controller or group control manual for information. For example, in iView, access is granted through the System Configuration, Remote Monitoring Authorization tab.

- Double-click the iMonitor desktop icon to launch the application .
- If iMonitor has not been previously launched and set up, the first screen you see will be the basic desktop.



 **Note**

If iMonitor has been previously set up, it will open displaying a list of Connection Sets to choose from or with an active Connection Set live display if the “Start with last set” option has been selected from the Tools menu.

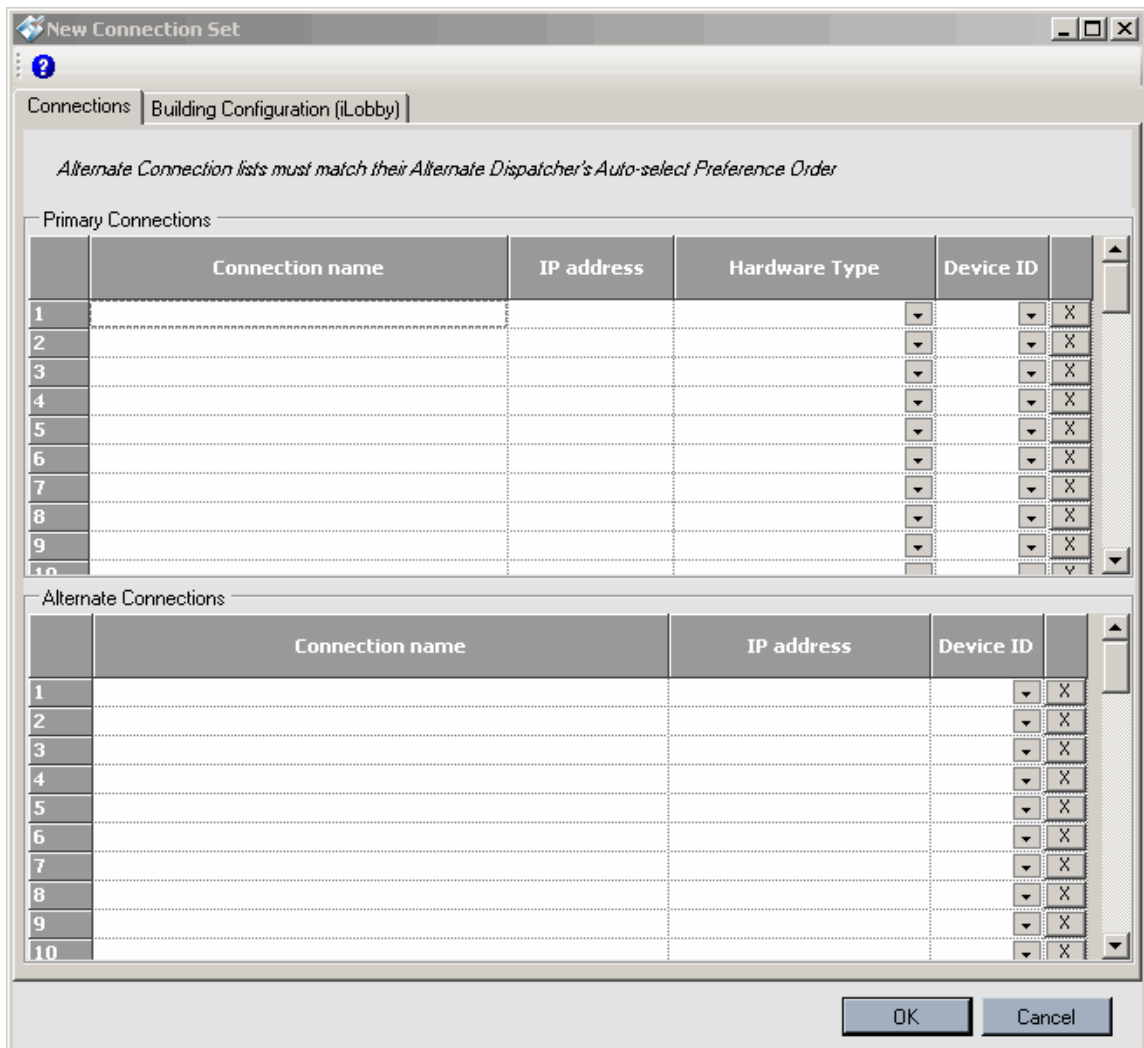
## Create a Connection Set

iMonitor lets you create “Connection Sets.” Each Connection Set can contain connections to as many as fifty different elevator groups. When a Connection Set is opened, information about all the groups it contains will be displayed. Please refer to “Connections” on page 3-5 for detailed information about this screen.

- Select Connection Set/New under the File menu.

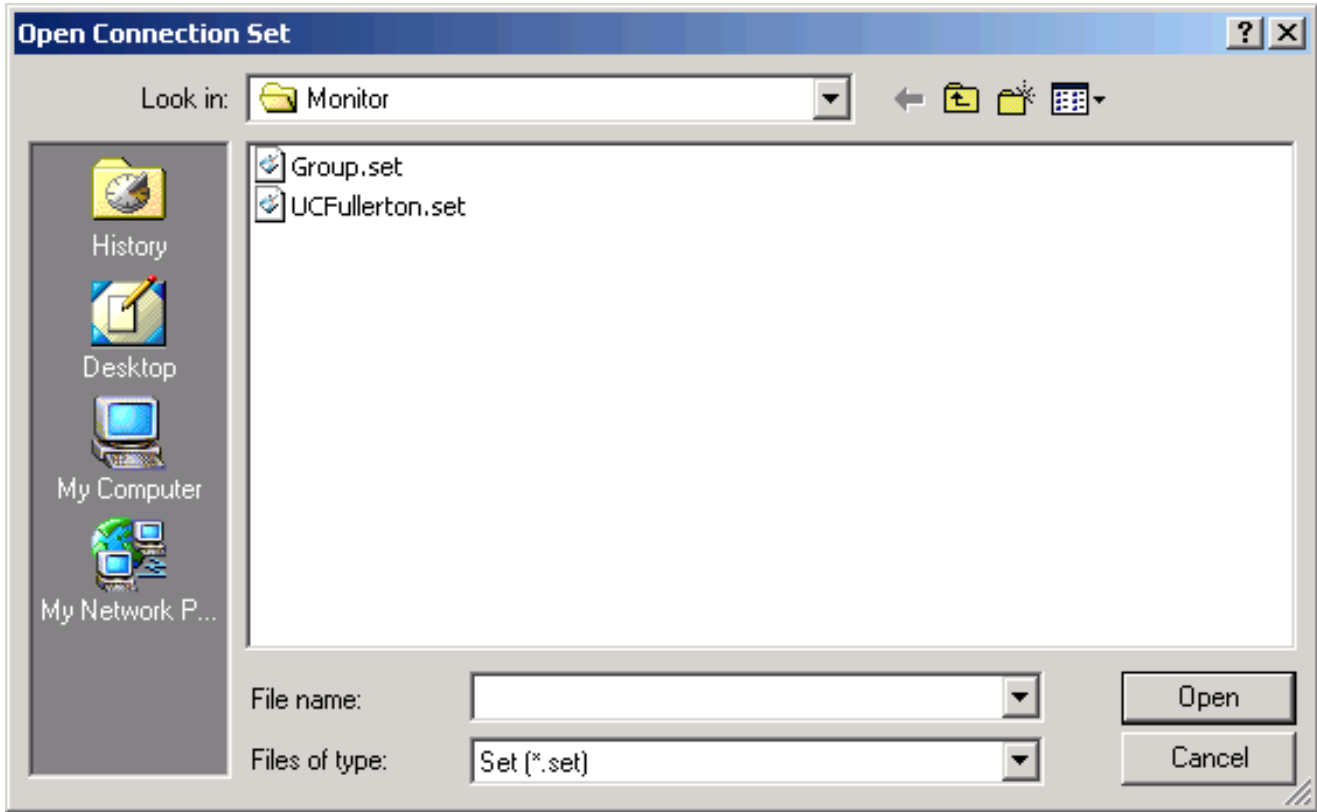
The Connection Set pane will appear (empty at first):

- Enter a logical name and the IP address for each group you add, select the hardware type (PC or iBox), click OK, give the set a name, and save it. (Repeat to create more sets if needed.)
- Primary Connections are primary group controllers. One for each group.
- Alternate Connections are elevator controllers or group dispatchers capable of taking over dispatching should the primary dispatcher fail.
- When you connect to a previously configured group, previously configured alternate controls in the group are listed in the Alternate Connections area. Please refer to “Alternate Connections” on page 3-7 for more information.

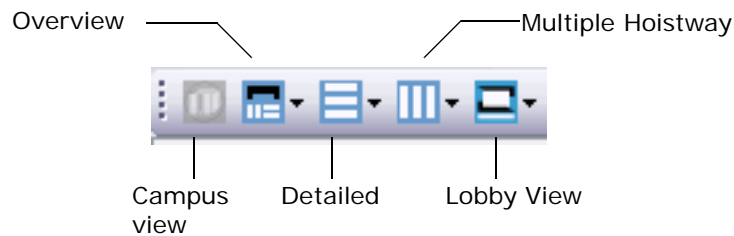


## Monitor a Set

- Select Open from the File menu.
- In the dialog that appears, double-click on the set you want to view.



The selected set will appear in the last active display mode. You can switch between views using the five buttons next to the menus.



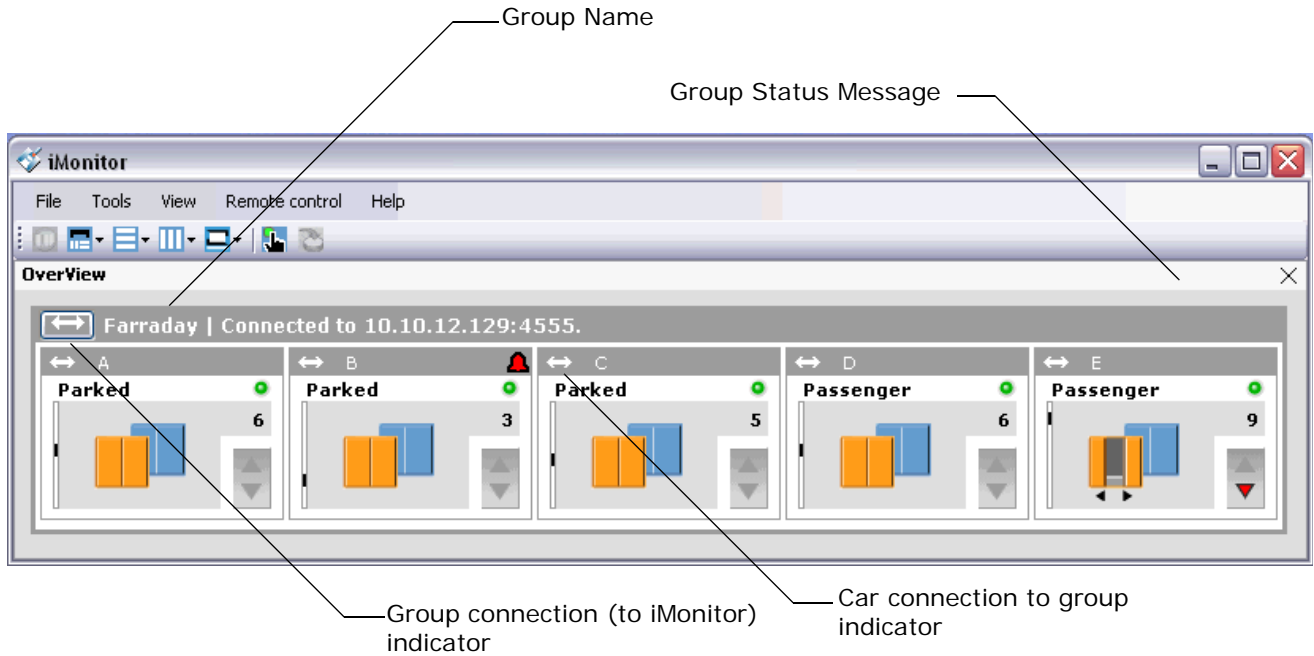
**Note**

If an authorization required message appears when you attempt to connect, the system you are accessing needs authorization to allow the connection. [Please refer to “Authorization” on page 1-3.](#)



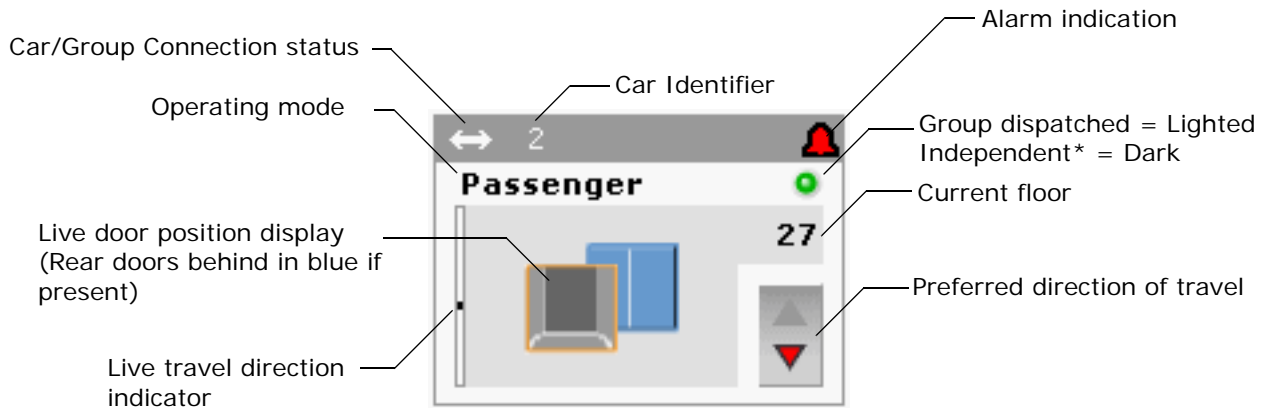
## Overview

The elevator Overview display is shown below.



2

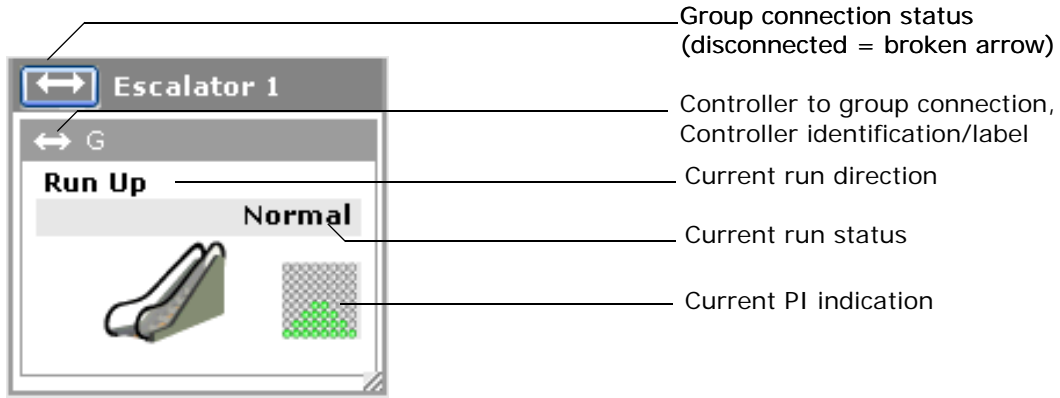
Per car, this screen provides:



\* Group cars may occasionally operate in a mode that requires they be dispatched independently. For example, cars on Swing service, Independent Service, etc. are not assigned calls by the Group while operating "independently."

### Escalator Overview

The escalator Overview screen is shown below. As with elevators, animated graphics indicate activity of escalator steps and position indication. Escalators will also indicate alarm conditions.



## Detailed View

- Select Detailed View/Group Name from the View menu:

Door status  
Orange = front  
Blue = rear

Call type, next destination,  
ETA information. [Please refer to "Detailed View Explanation" on page 3-12.](#)

Emergency power, Seismic status, Load weigher, Swing operation status indicators

Preferred direction of travel

2

### Escalator Detailed View

The escalator detailed view is shown below.

↔ Escalator 1

↔ G

**Run Up**

Normal

**Main Control Board**

Safety Circuit Close

Speed pulses/min

Left Handrail	83
Right Handrail	83
Step Monitor 1	1,000
Step Monitor 2	999

**Secondary Control Board**

Safety Circuit Close

Speed pulses/min

Left Handrail	83
Right Handrail	83
Step Monitor 1	1,000
Step Monitor 2	999

Drive	VVVF/ATL
Drive alarm bell	Off
Drive chain	Normal
Earthquake	Off
Motor overheat	Off
Smoke detector	Off

Primary safety string condition

Component speeds reported in pulses per minute by the primary escalator control board

Secondary safety string condition

Component speeds reported in pulses per minute by the secondary escalator control board

Drive type (Wye/Delta, VVVF)

Drive alarm bell status

Drive chain condition

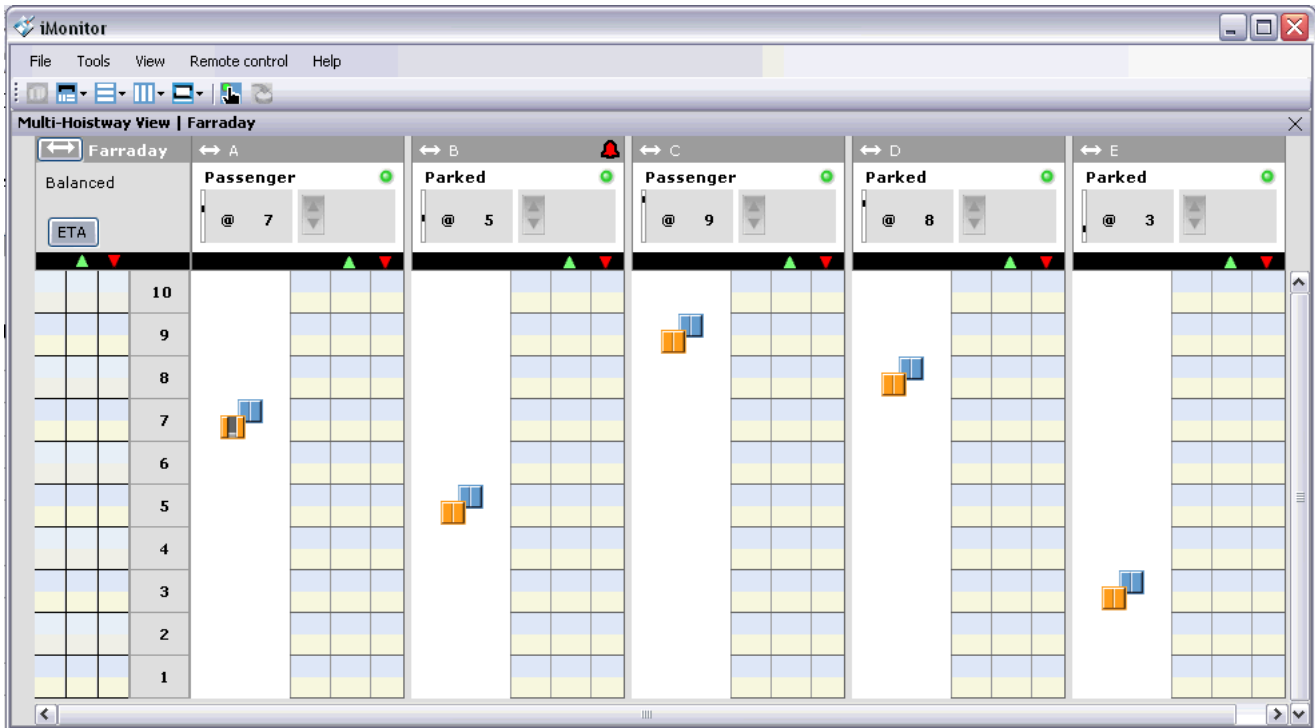
Earthquake/seismic indicator status

Motor overheat indicator status

Smoke detector status

## Multiple Hoistway Display

- Select Multiple Hoistway Display/Group Name from the View menu:



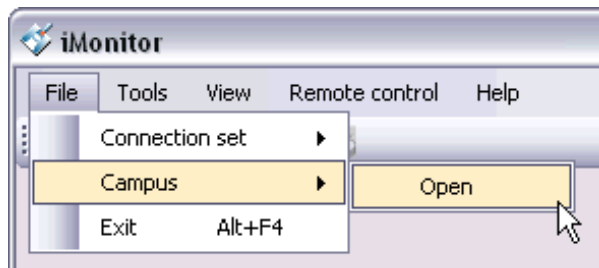
2

Please refer to “Multiple Hoistway View Explanation” on page 3-14 for detailed information.

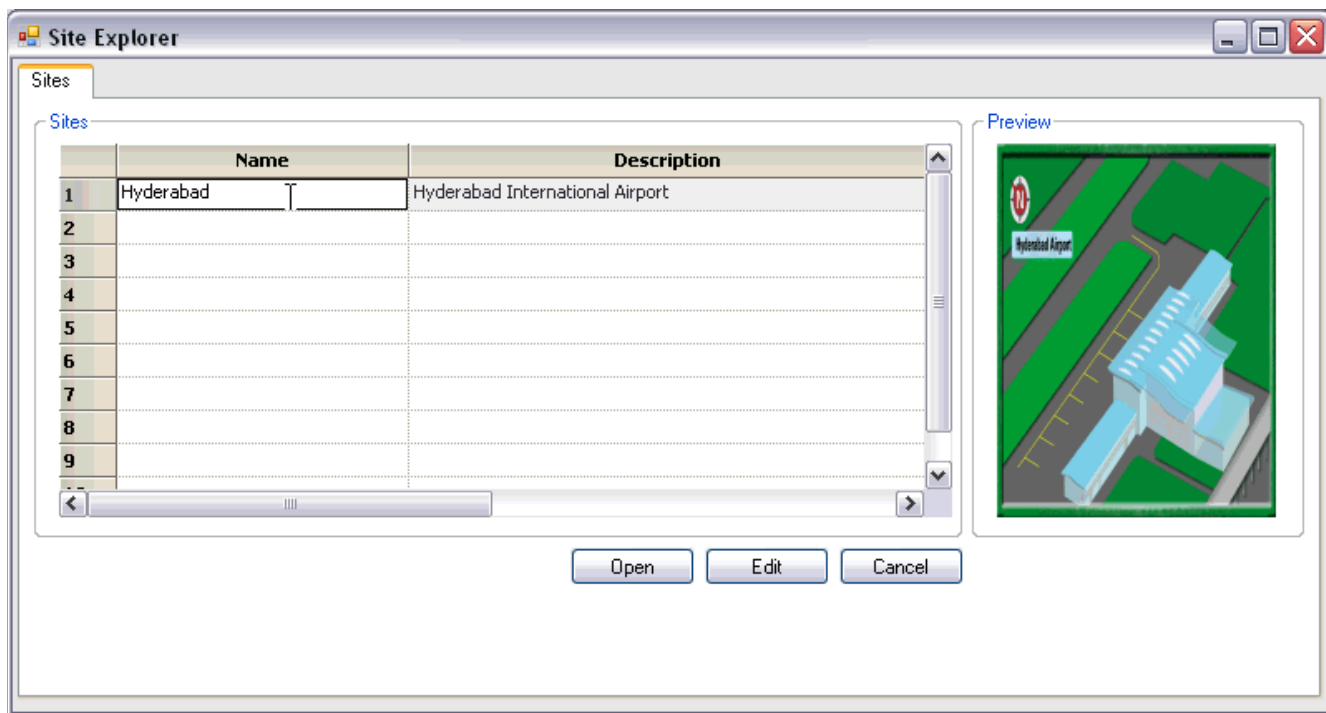
## Campus View

The campus/site view provides a three-dimensional overview of an entire site (college campus, manufacturing cluster, airport buildings, etc.). Individual building transportation controllers are visible in approximation of their actual position. If a unit is not operating in normal mode, it will be reflected in the display. Clicking on any unit will open a dialog detailing unit status.

- To initially activate campus view, select Campus/Open from the File menu:



- A dialog will open, listing currently configured sites and allowing you to edit them if needed. Select the site you want and a preview will be displayed.

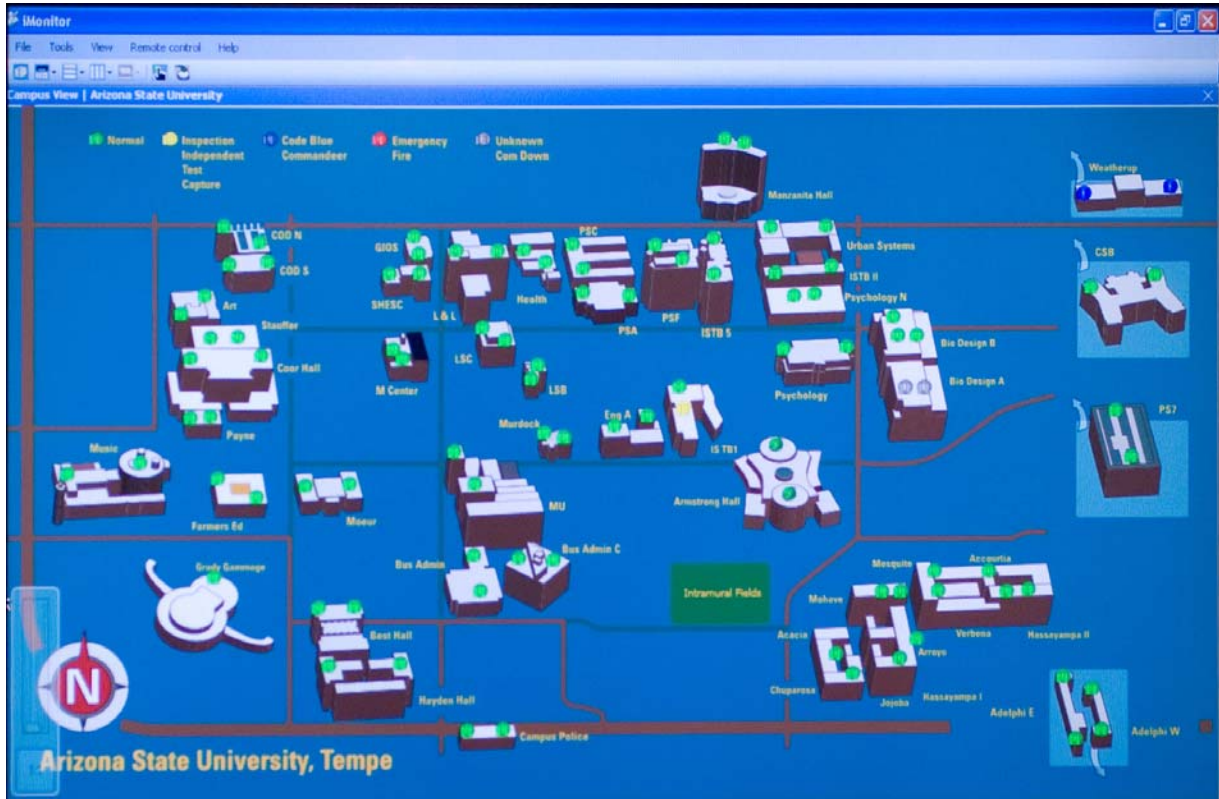


- Click Open.

### Note

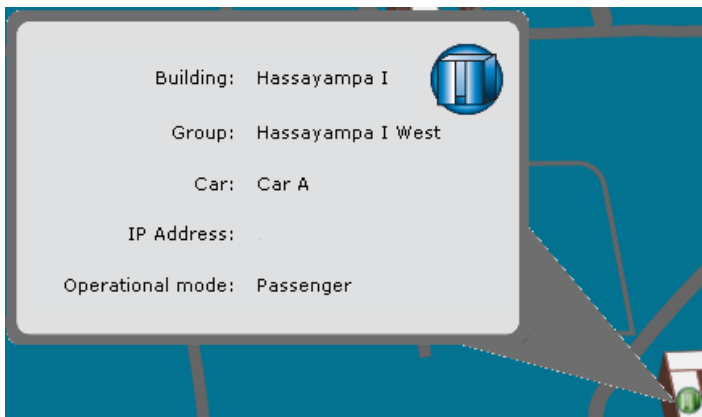
Campus view requires custom work to produce three-dimensional site maps of your facility. If you would like campus views in your iMonitor, please contact MCE.

The site view may range from a simple three-dimensional building cluster to a more detailed view depending upon the initial order conditions. Sites are best viewed on large (32-inch) monitors at 1360 x 768 pixel resolution. A live site example is shown below.



2

This example is of a site with multiple escalator controls. Any of the escalator icons may be clicked to display more detail. Simply pausing the computer mouse over a unit will display abbreviated information in a pop-up window. An escalator dialog example is shown below.



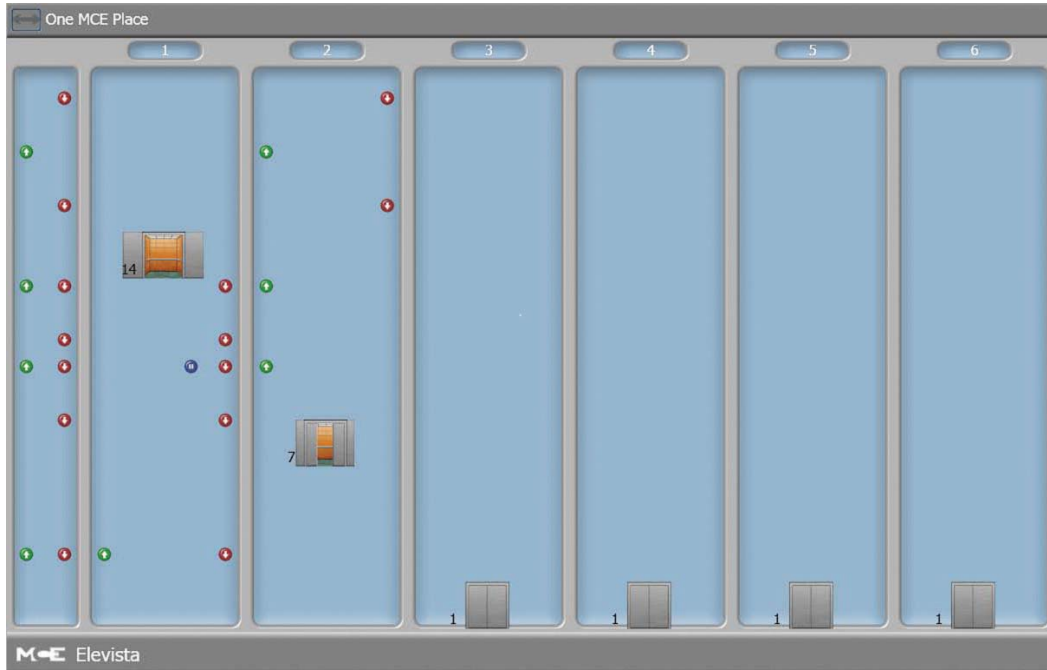
**Within Campus View**

Once you have initiated the site/campus view, the Overview and Detailed View buttons will allow you to access controls just as in standard iMonitor view.

## Lobby View

The Lobby View is designed to be displayed on a wide, flat panel display in the building lobby. It connects to and graphically displays the status and movement of a single elevator group.

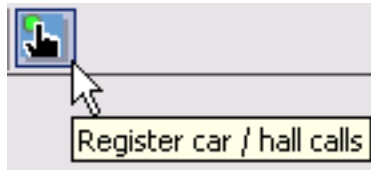
- Select View/Lobby View/Group name





## Register Elevator Calls

You may register an elevator car call while viewing cars on any of the “view” displays. Click the call register button to begin.



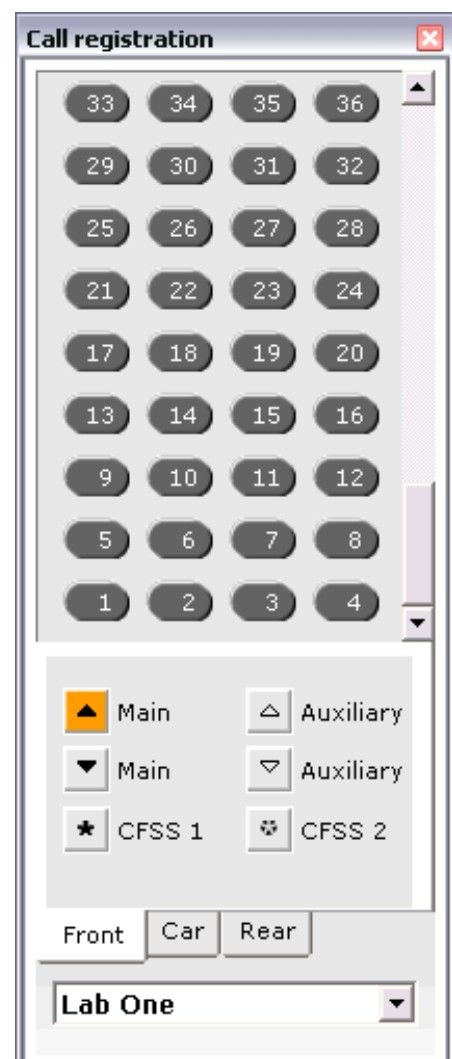
The call-type tabs (Hall calls, Car calls, etc.) will display the calls available for the selected group.

### Hall Calls

- Pick a Group.
- Pick a call type.
- Pick a floor number.

Note

You can register multiple hall calls if desired.



### Car Calls

- Pick a group.
- Pick a car.
- Pick front or rear call panel.
- Pick a floor.

Note

You can register multiple calls if desired.

The screenshot shows a software window titled "Call registration". At the top is a numeric keypad with buttons for numbers 1 through 25. Below the keypad are two radio buttons: "Front" (which is selected with a black dot) and "Rear". Underneath these is a dropdown menu labeled "Car" with "1" selected. At the bottom of the window are two tabs: "Hall" and "Car". The "Hall" tab is active, and its dropdown menu is set to "Science".

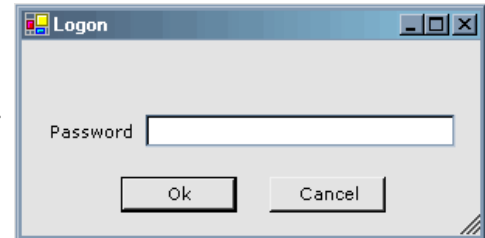
## Remote Control

The Remote Control menu provides access to security, group, group timers, car recall, car settings, remote outputs, and diagnostic outputs screens.

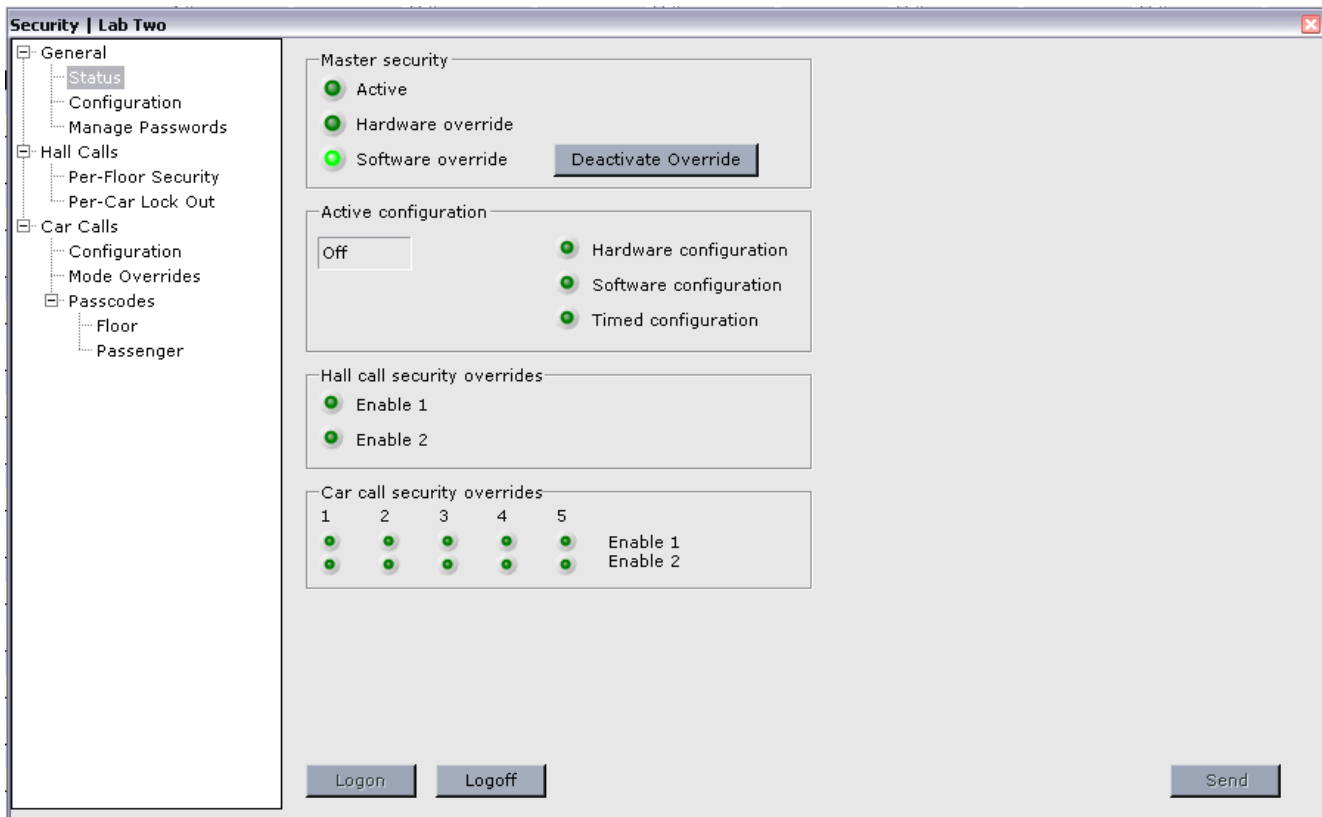
## Elevator Security

iMonitor allows you to restrict elevator travel through the building by controlling hall and car call registration to an elevator group. Access to security settings beyond viewing general status is restricted to authorized users. There are two user classes, manager and technician. The manager is allowed to set up and edit passwords, the technician is not. To log on:

1. Select Security/Group name from the Security menu.
2. Click on the Logon button at the bottom of the screen.
3. Enter the manager or technician password. (Factory default passwords are “manager” for manager logon and “technician” for technician logon.)
4. Click OK. Menus that were previously grayed-out will become available.



## Status



2

The Status screen provides an overview of currently active security settings.

- Master security:
  - Active: Lights if any security mode is active.
  - Hardware override: Lights if security has been overridden by a switch input.
  - Software override: Lights if security has been overridden by a software selection.
  - Activate button: Activates software security override.
- Active configuration:
  - Display: Currently active security configuration.
  - Hardware configuration: Lights if configuration activated by hardware switch.
  - Software configuration: Lights if configuration activated by software switch.
  - Timed configuration: Lights if configuration activated by system timer.

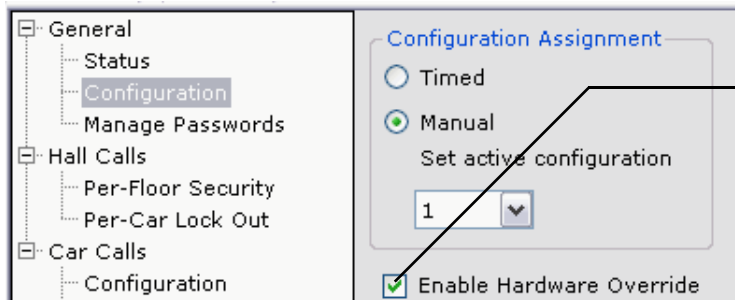


Note

Timers are configured through the Timer Tables screen. Please refer to your iControl User Guide.

- Hall call security overrides:
  - Enable 1: Lights if the hall call input override #1 switch is closed.
  - Enable 2: Lights if the hall call input override #2 switch is closed.
- Car call security overrides: (two LEDs per car)
  - Car “x”: Two methods of car call security are provided (i.e., card reader and key switch). If one is overridden, an LED will light. If the second is overridden, the second LED will light.

## Configuration



Allows you to enable or disable the hardware security override switches.

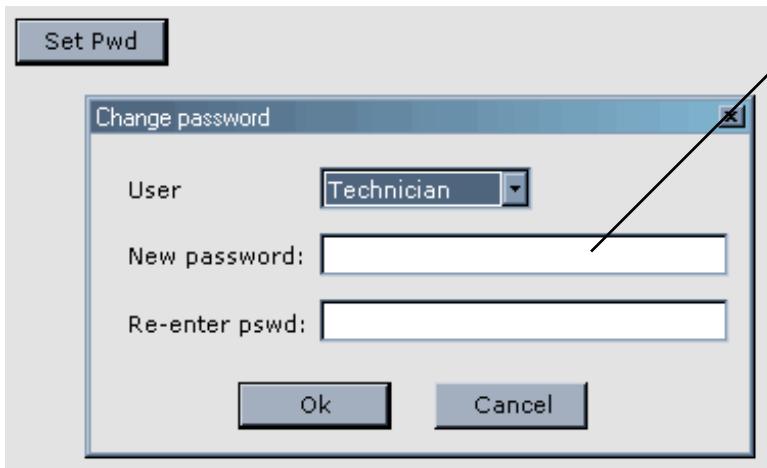
This screen allows you to enable manual or timed assignment of security configurations. To set a security configuration manually:

1. Select Manual assignment.
2. Set the desired configuration in the drop-down list.
3. Click Send.

To enable assignment by timer setting:

1. Select Timed assignment.
2. Click Send.

## Manage Passwords



Initially, select the "manager" class and use the password "manager."

During your initial access, set up passwords appropriately.

You must be logged on as the manager:

1. Click on the Manage Passwords menu listing.
2. Click on Set Pwd to open the dialog.
3. Select the User class (Manager or Technician) to set the password for.
4. Enter the password. (Double-check to make sure it is what you intended.)
5. Click OK.

 **Note**

If you forget the password, locate the job number and/or serial number of the group controller and contact MCE Technical Support at 916 463 9200.

## Hall Calls

Hall Call security allows you to place two different kinds of restrictions:

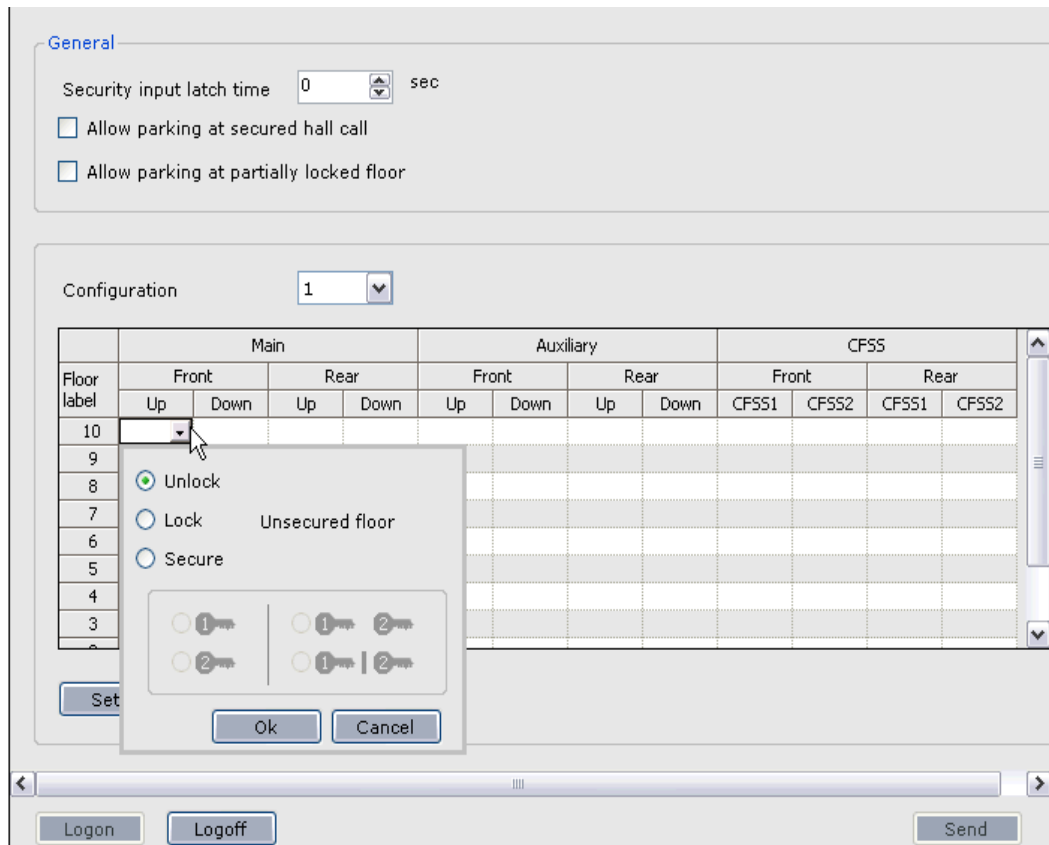
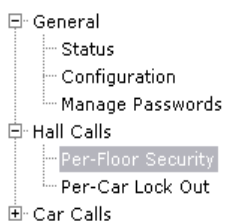
- Per-Floor Security: Places restrictions on hall call riser access on a per-floor basis.
- Per-Car: Specifies which cars may stop at particular floors.

**Per-Floor Security** Hall calls may be Unlocked, Locked, or Secured:

- Unlock: Unrestricted access. Calls may be registered.
- Locked: No access. Calls may not be registered.
- Secure: Access is restricted to authorized passengers. Calls may be registered after proper authorization (i.e., card reader, key switch, or code entry).

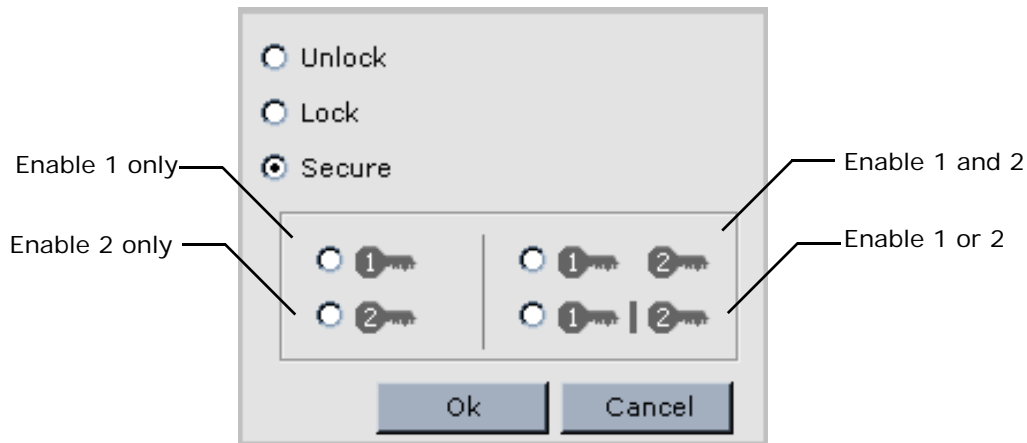
To set hall call restrictions:

1. Select Per-Floor Security.



2. Set the Security input latch time. (Number of seconds before authorization times out.)
3. Select the security configuration to which the hall call restrictions apply.
4. Set whether parking will be allowed at a secured hall call or partially secured floor.
5. For the hall call type (i.e., Main, Auxiliary, CFSS) and location (Front/Rear), click in the table at the floor and direction (up/down) to be set.
6. In the selection list that appears, select the desired security condition (Unlock/Lock/Secure).

- If Secure is selected, chose the combination of authorizing inputs (i.e., key switch (enable one), card lock (enable two) required to enter the call.



- Scroll down if needed; click Send.

### Alternative Selection

- Click in a Floor box to select all calls on that floor. Or, click in a Riser box to select all calls for that riser.
- Choose the desired setting.
- Click OK to set all selected calls the same.

Or,

- Click and drag in a column or row to make multiple selections.
- Click Set Selection.
- Choose setting and click OK to set all selected calls the same.

**Per-Car Lockout** On a per-car, per-floor, per-direction basis, allows you to determine which cars may respond to any hall call type.

**-Car Lock Out**

Call type: Standard

Floor label	1				2				3			
	Front		Rear		Front		Rear		Front		Rear	
	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down	Up	Down
60												
59												
58												
57												
56												
55												
54												
53												
52												
51												
50												
49												
48												
47												
46												
45												
44												

Set Selection

1. Select a call type.
2. For any car, click in a front/rear, up/down box.
3. Unlock to allow the car to respond. Lock to prevent the car from responding.
4. Click Send.

### Alternative Selection

- Click in a Car box to select all floors and directions. Or, click in a Riser box to select all calls for that riser.
- Choose the desired setting.
- Click OK to set all selected calls the same.

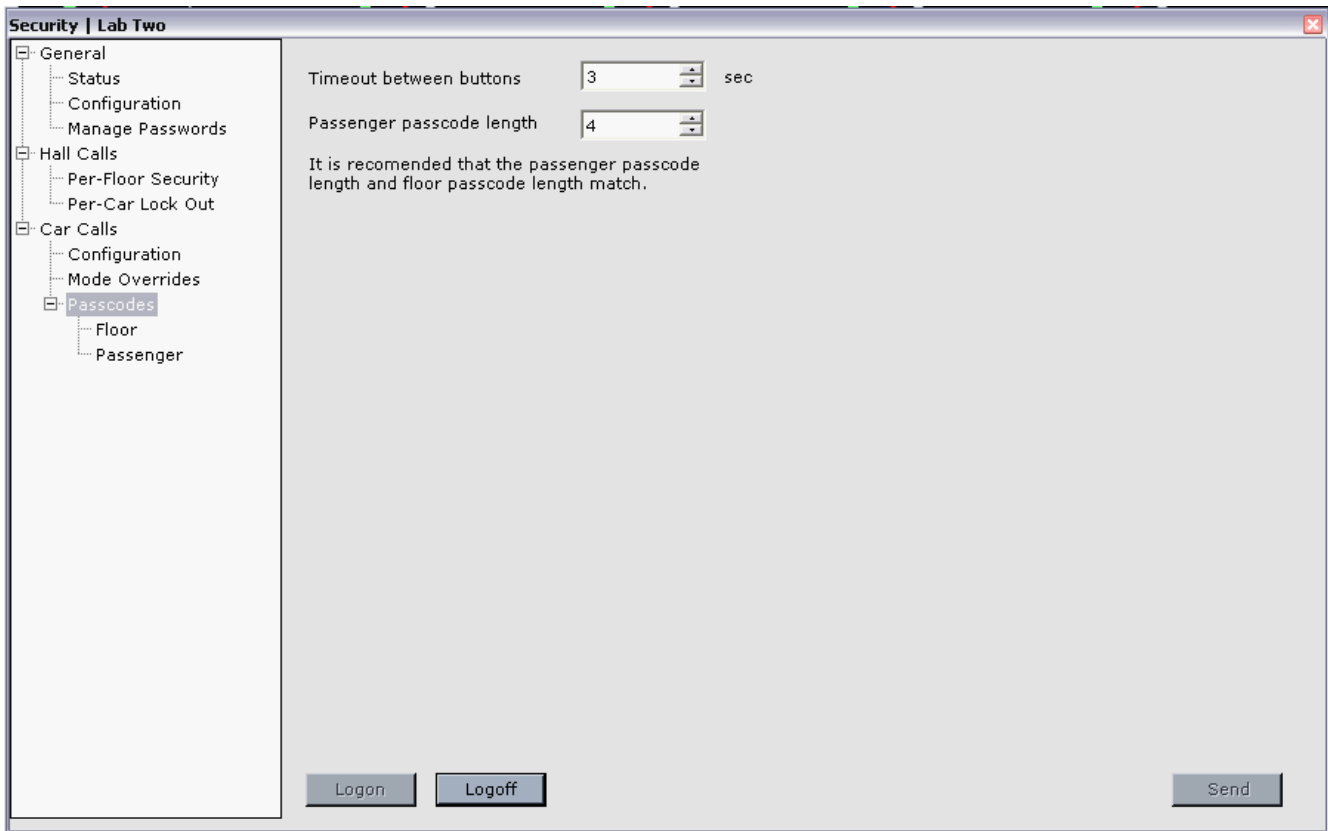
Or,

- Click and drag in a column or row to make multiple selections.
- Click Set Selection.
- Choose setting and click OK to set all selected calls the same.



## Car Calls/Passcodes

This screen allows you to set password length.



2

### Car Calls/Configuration

Car calls may be Unlocked, Locked, or Secured:

- **Unlock:** Unrestricted access. Calls may be registered.
- **Lock:** No access. Calls may not be registered.
- **Secure:** Access is restricted to authorized passengers. Calls may be registered after proper authorization (i.e., card reader, key switch, or code entry).

To set car call restrictions:

1. Select Car Calls/Configuration.

Security input latch timer:

Configuration:

Click here to select all floors, cars, and calls in group.

Click here to select all front/rear calls for this car.

Floor	1		2		3		4	
	Front	Rear	Front	Rear	Front	Rear	Front	Rear
P								
19								
18								
17								
16								
15								
14								
13								
12								
11								
10	1							
9	2							
8			1	2				
7								
6								
5								
4								

Click here to select all cars and calls for this floor.

Click here to select this car, this call, this floor.

Set Selection

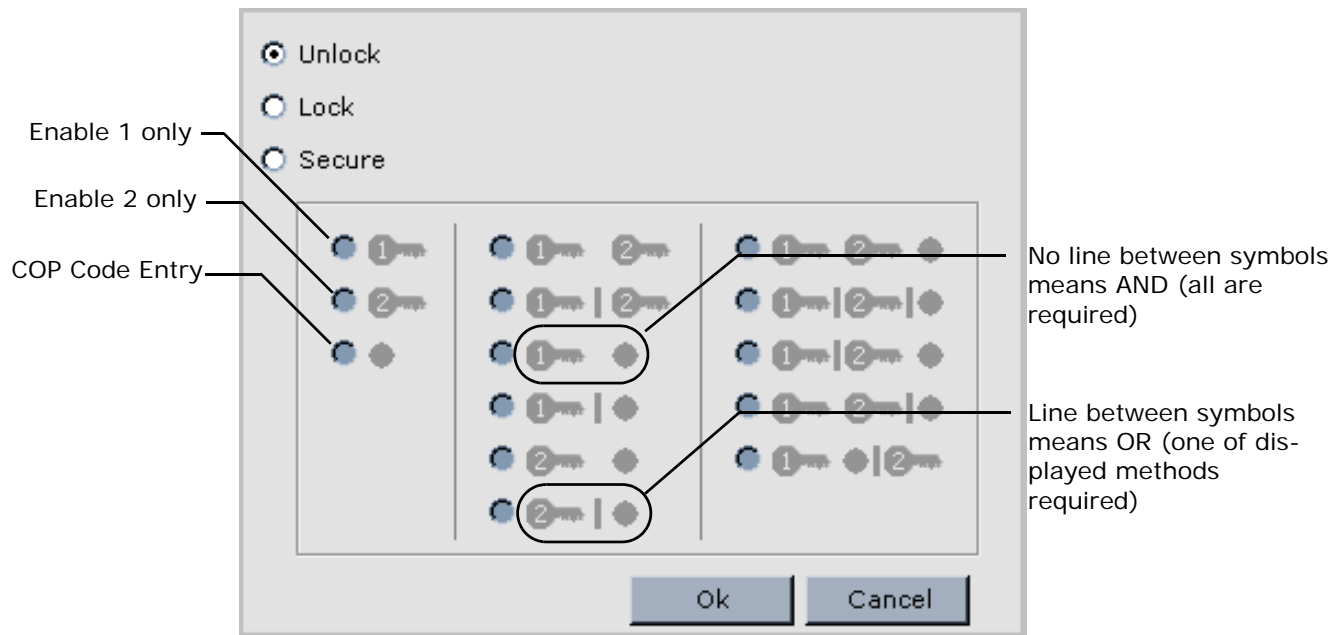
Logon Logoff Send

2. For the car and car call type (front/rear), click in the table at the floor and car panel location (front/rear) to be set.
3. In the selection list that appears, select the desired security condition (Unlock/Locked/Secure).
4. If you choose Secure, select method of authorization.
5. Click OK. Click Send.

Alternatively:

- Click and drag to select multiple floors and calls or click in one of the auto-select areas shown in the illustration above.
- Click Set Selection and choose setting. Click Send.

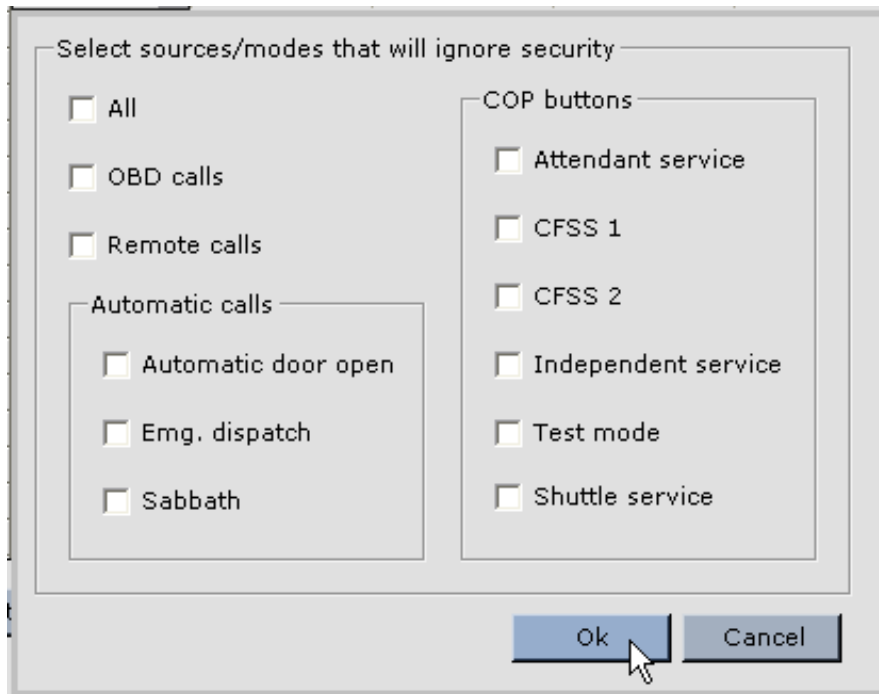
**Symbol Keys** The illustration below explains car call security symbols:



### Car Calls/Mode Override

On a per floor, per configuration, per car panel, per authorizing signal basis, you can allow a security authorization typically required to place a car call to be overridden when the car is operating in a selected mode.

- Configuration: Select the configuration affected by these choices.
- Signal: Select the authorizing signal to be overridden by these choices.



- Selection: Select floors, cars, and calls singly or in blocks just as described for [setting security authorizations](#) previously.
- Choose the operating mode or modes that will override the typically required authorization to place a call.
  - All
  - OBD calls
  - Remote calls
  - Automatic door open
  - Emergency dispatch
  - Sabbath
  - Attendant service
  - CFSS 1
  - CFSS 2
  - Independent service
  - Test mode
  - Shuttle service
- Click OK.

Active overrides are displayed as single letters, each corresponding to a mode:

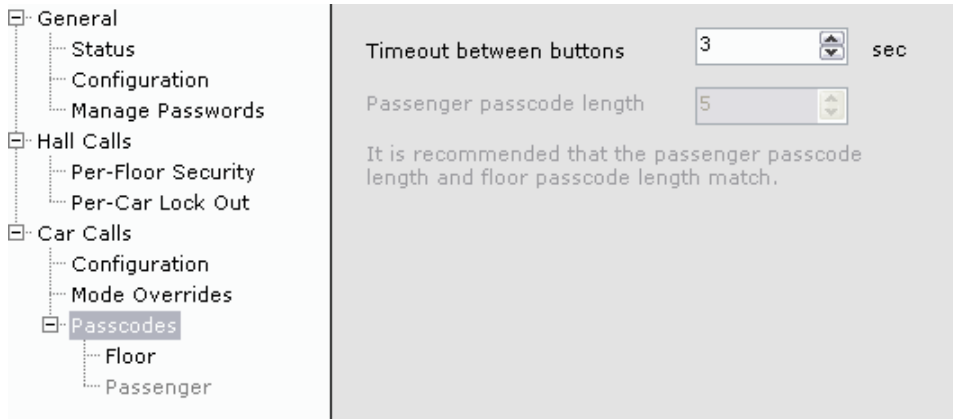
- I = Independent
- A=Attendant
- 1=CFSS1
- 2=CFSS2
- D=Auto Door
- T=Test Mode
- E=Emerg Dispatch
- S=Sabbath
- R=Remote
- O=OBD
- S= Shuttle service

**Note**

**Automatic Calls/Automatic Door Open:** Under certain conditions, including certain fault conditions and emergency power transfer periods, the elevator doors may need to automatically open or cycle open/closed at floors. Activating this override, allows the doors to open or cycle even at a secured opening.

### Car Calls/Passcodes

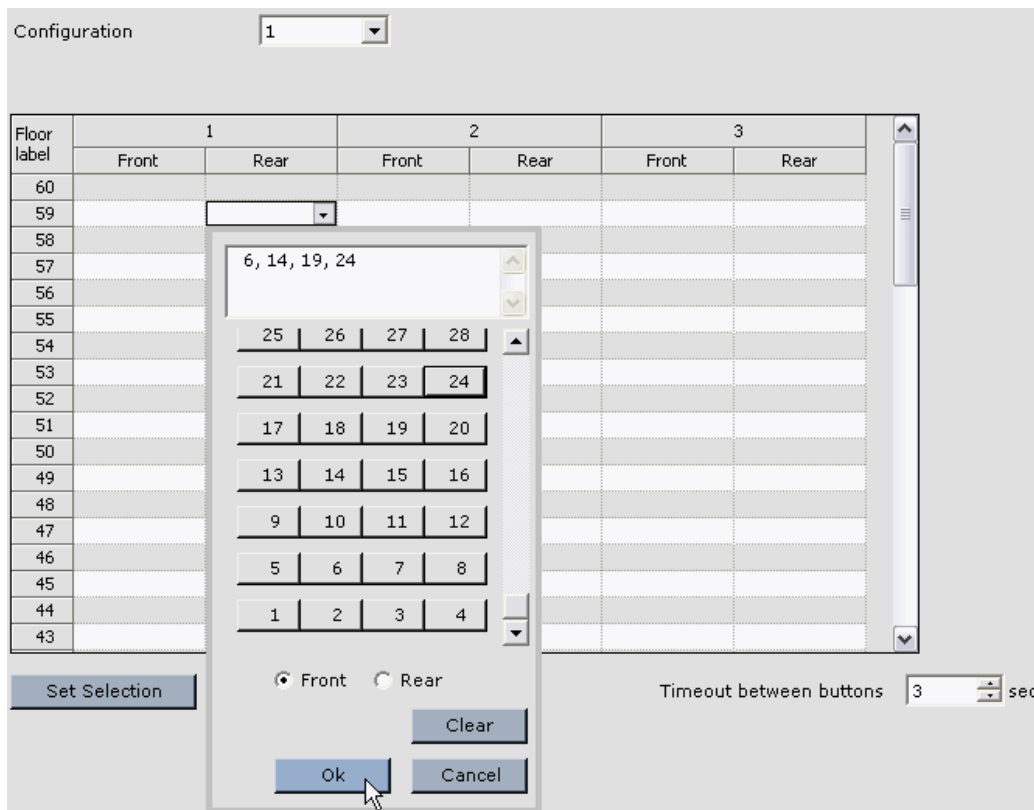
The initial screen allows you to configure passenger code timeout and lengths.



### Car Calls/Passcodes/Floors

This screen allows you to assign security authorization codes for car operating panel entry.

1. Configuration: Select the configuration affected by these choices.



2

2. Selection: Select floors, cars, and calls singly or in blocks just as described for [setting security authorizations](#) previously.
  3. In the dialog that appears, select the COP and the code. Click OK.
  4. If you make an entry error, click Clear, then re-enter.
- **Timeout between buttons:** When the passenger is entering a code, if more than the number of seconds set here elapses between button presses, the code entry will time out.

**Operation** To place a call with the code entry security option active:

- Press a floor selection as usual. The panel buttons will begin to flash.
- Press floor buttons to enter the code.
- Correct entry will register the call. The panel buttons will return to normal.
- Incorrect or timed-out entry will not register the call. Panel buttons will return to normal.
  - Repeat the process if entry was incorrect or timed-out.

**Car Calls/Passcodes/Passengers** These controls allow you to assign entry codes to specific passengers, along with accessible floors and any special operating modes during which their code entry should remain valid.

Security   Davis Center				
	ID	Passenger	Pass Code	Modes
<ul style="list-style-type: none"> <li>[-] General                             <ul style="list-style-type: none"> <li>--- Status</li> <li>--- Configuration</li> <li>--- Manage Passwords</li> </ul> </li> <li>--- Hall Calls</li> <li>[-] Car Calls                             <ul style="list-style-type: none"> <li>--- Configuration</li> <li>--- Mode Overrides</li> <li>[-] Codes                                     <ul style="list-style-type: none"> <li>--- Floor</li> <li>[-] Passenger   <ul style="list-style-type: none"> <li>Users</li> </ul> </li> </ul> </li> </ul> </li> </ul>	1	Davis, Mark	6, 13, 12, 7, 10	

When initially selected, if any passengers have been assigned a code, they will be listed in the window along with their code and any special operating modes associated.

To edit an existing user, double-click their name. To add a new user, click Add. The Add/Edit dialog is largely the same:

- Name: If you are editing, the user name and Previous and Next buttons (allowing you to move through a list of users) are here.

If you are adding a new name, a blank name field and an Add Next button (allowing you to move to a new entry when this one is complete) are here.

- Select allowed floors and risers.
- Assign a pass code. (Front and Rear car call panels may use separate codes.)
- Select any special operating modes through which this access will remain active.
- Click OK.
- Click Send when ready to write changes to the group.



Per passenger security is only available for iControl systems that have Security C functionality enabled. It is not a standard feature.

**Passenger Properties**

Passenger Data (1)

Name:

Destinations Allowed

Floor label	Front	Rear
15		
14		
13		
12		
11		
10		
9		
8		
7		
6		
5		
4		

Pass Code

13  14  15  
 9  10  11  12  
 5  6  7  8  
 1  2  3  4

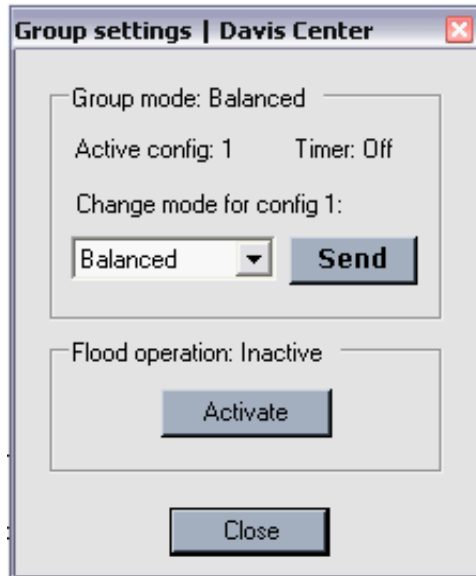
Front  Rear

Modes Allowed

Attendant Service  Independent Service  
 CFSS 1  Sabbath  
 CFSS 2

## Group Settings

Depending upon site capabilities and options, group modes of operation may also be remotely selectable.



### Group Mode: Balanced

Displays and allows you to select the desired mode of operation (for iView Mode of Operation Configuration 1 only):

- Select the mode from the drop-down list, then click Send.
  - Balanced
  - Lobby Peak
  - Demand Down
  - Demand Up
  - Auto-mode

Selection is disabled if timed operation is active through iView selection. Settings here are effective only on Operating Mode Configuration 1 and so are in force only when Configuration 1 is active. Details of operation for the modes in the drop-down list are set up using iView.

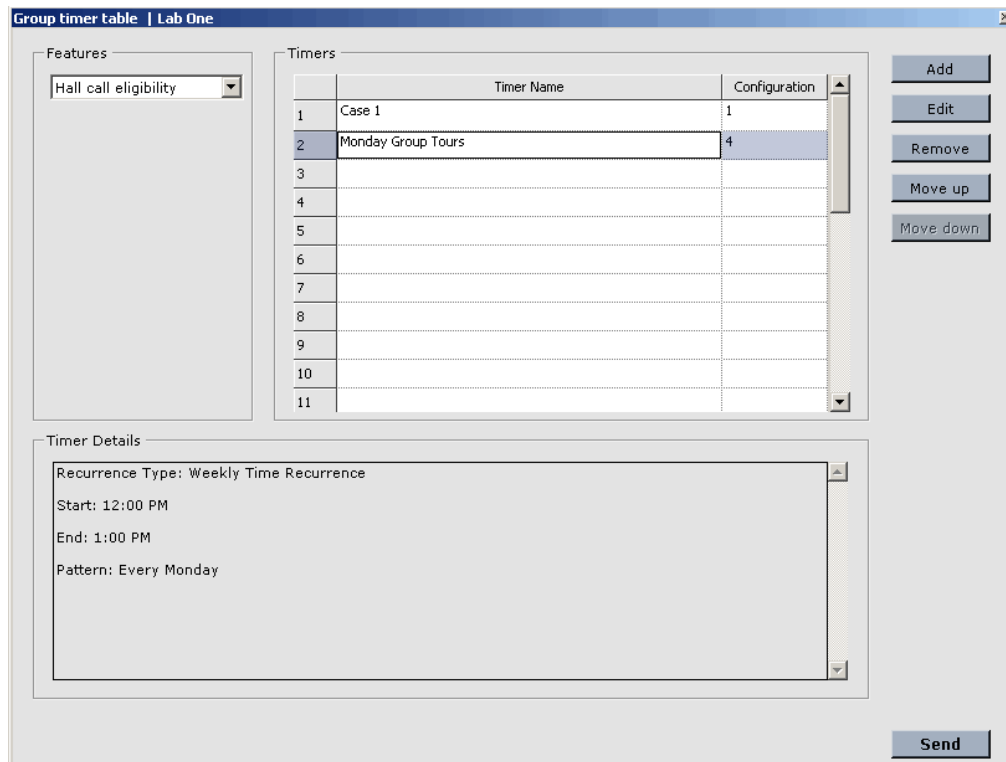
### Flood Operation

Flood operation may be remotely activated/deactivated.



## Group Timer Table

The Group Timer Table menu allows you to create timers that automatically determine, based on day and time of day, the currently active configuration for Hall Call Eligibility, Parking, Parking Eligibility, Mode of Operation and Security. In addition, timer tables can be used to control the first four Remote outputs. Depending on controller type (Central/Local dispatcher, Local/Simplex/Swing control) some parameters are not applicable and are grayed out. Timer Tables are currently available for iControl only.



2

### Features

When you select a Feature in the drop down menu, any timer that asserts that Feature will appear in the Timers pane so that it may be selected for editing. For example, if Hall Call Eligibility is selected, any timer asserting the Hall Call Eligibility Feature is displayed and the particular hall call eligibility used is shown in the Configuration column. (The configurations that the timer tables select are created using parameters on the System Configuration and Security tabs in the iView application.) Feature selections include:

- Hall Call Eligibility
- Parking
- Parking Eligibility
- Mode of Operation
- Security (Requires password/log on. [Please refer to “Manage Passwords” on page 2-17.](#))
- Remote 01 - 04
- Active dispatching engine

### Timer Details

When a timer is selected in the Timers pane, information about the timer appears in the Timer Details pane. (You must select a timer and click Edit to change settings, the Timer Details pane is read only.)

## Timers

Configured timers are displayed in the Timers pane. If timers overlap (manage the same period of time), the timer appearing higher in the list will have priority (control). To move a timer within the list, click to select it, then click Move Up or Move Down.

**Add a Timer** To add a new timer to the list:

1. Click Add. The Add/Edit Timer dialog is displayed.
2. Enter a descriptive name for the timer - up to 25 characters.

3. From the Configurations pane, select the Configurations to be asserted when the timer is active. When creating a timer, at least one Configuration must be selected. Otherwise, the timer will not be created.

4. Select the repeat frequency (Recurrence type) of the timer:
  - Daily: Occurs every day.
  - Weekly (Day of the week): Occurs on the specified day or days of each week. Can start on one day and end on another.
  - Monthly (Day of week): Occurs on a day, day of the week, or multiple days each month. e.g., 1st, 2nd Tuesday or 3rd through the 5th.
  - Yearly: Occurs on a day or days of one or more months.
5. Click OK.
6. Click Send to send new information to the system.

#### To remove a timer

1. Select a feature type from the Features drop down menu.
2. Select a timer from the Timers pane.
3. Click Remove. Click Send to send new information to the system.

#### To edit a timer

1. Select a feature type from the Features drop down menu.
2. Select a timer from the Timers pane.
3. Click Edit; edit as needed. Options are the same as for adding a timer. Timers for each feature type are edited separately.
4. Click OK. Click Send to send new information to the system.

**To move a timer** A timer's position in the list determines its priority. If two timers are attempting control at the same time, the timer higher in the list has priority (control). To move a timer:

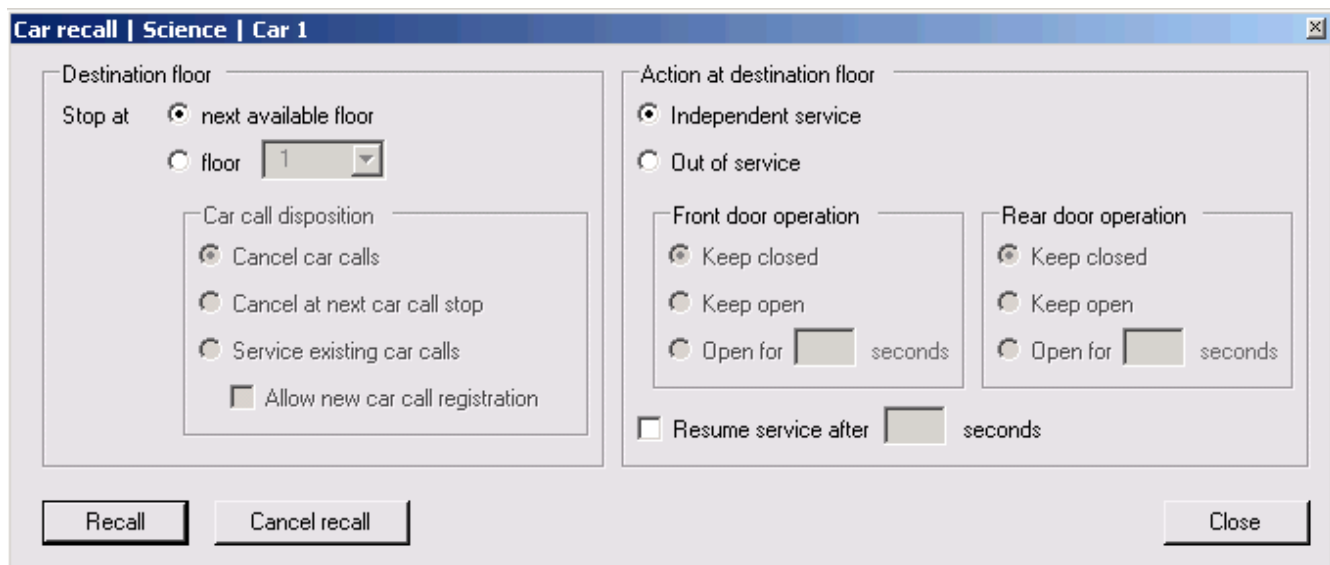
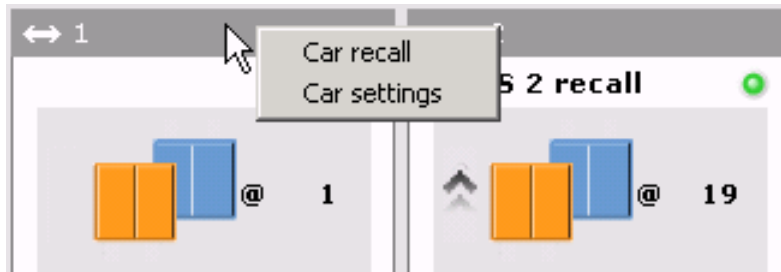
1. Select the timer from the Timers pane.
2. Click Move Up or Move Down. Click Send to send new information to the system.

**No valid timer:** For a particular feature, i.e., Parking, Mode of Operation, Auto Stop, etc., if Timed is selected and there is no valid timer created (current date and time falls within the timer's date(s) and times), those features will be defaulted to use Configuration 1.

## Car Recall

You can access Recall settings for individual cars in a group:

1. Select Car Recall/Group name/Car from the Remote Control menu.
2. Or, from the Detailed or Multiple Hoistway displays, right-click on the car title bar and select Car recall (or Car settings) from the popup menu.



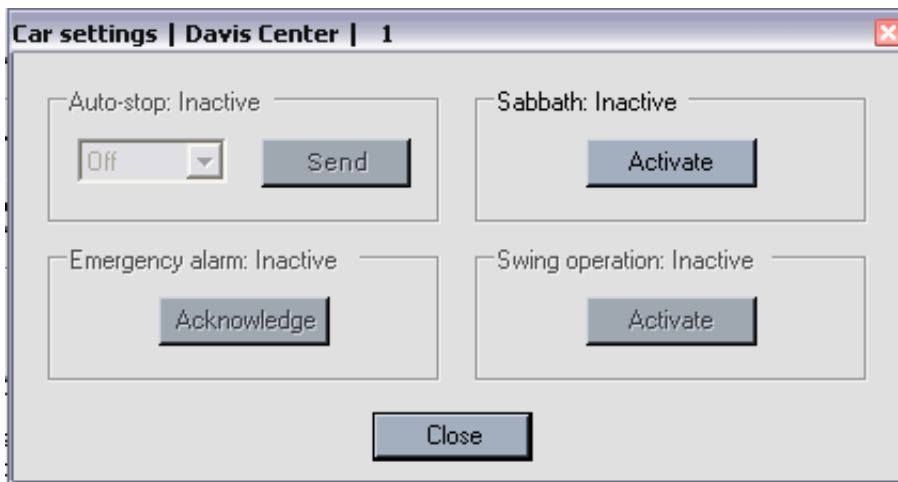
If the site is properly configured and connected, and if remote recall is authorized, you may set conditions for and recall a selected car in a displayed group.

1. Select the floor, next, or a particular destination, to which the car should recall.
2. Set Car Call Disposition:
  - **Cancel car calls:** Immediately cancel all car calls.
  - **Cancel at next car call stop:** Cancel all car calls upon arrival at the next stop.
  - **Service existing car calls:** Service all existing car calls but do not accept additional calls.
  - **Allow new car call registration:** Service existing calls and allow additional calls.
3. Set Action at Destination Floor:
  - **Independent service:** Put car in Independent Service upon arrival at destination floor.
  - **Out of service:** Put car out of service upon arrival at destination floor.

4. If Out of service option selected, set front and rear door operation:
  - Keep closed: Hold doors closed.
  - Keep open: Open doors and keep them open.
  - Open for XX seconds: Open doors for the entered number of seconds, then close them.
5. If the car should automatically resume service after a predetermined number of seconds, enable Resume service after XX seconds and set the time appropriately.
6. Click Recall to begin recalling the car (Cancel Recall to cancel, Close to close the dialog).

## Car Settings

Depending upon site capabilities and options, car modes of operation may also be remotely selectable. The current status of each mode is displayed when the dialog is opened (i.e., Auto-stop: Enabled).

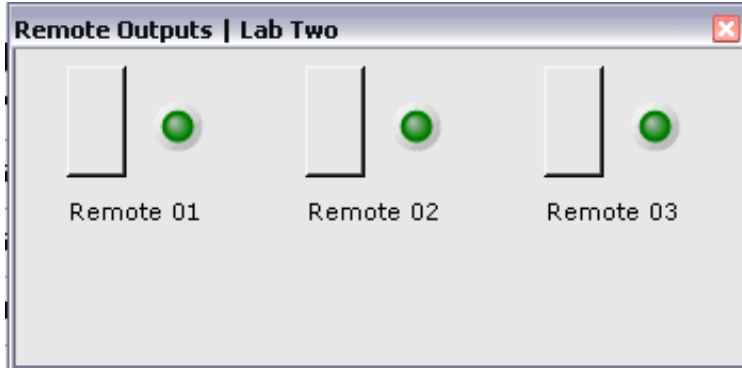


2

- **Auto-stop:** If the Auto-stop feature is enabled in iView, you may turn it On or Off from iMonitor or select Timed if activation is to be controlled by Operating Mode Configuration 1 timer-activation in iView.
- **Sabbath:** Activate/Deactivate Sabbath operation.
- **Swing operation:** Activate/Deactivate Swing operation. (Control inactive for Simplex car “groups” or if group control is currently residing on the selected car within a group (roaming group operation)).
- **Emergency Alarm:** If an emergency alarm for a monitored car becomes active, you can acknowledge the alarm from this dialog. In order for this acknowledgement to work, software alarm acknowledgment must be enabled for the car through iView. Otherwise, only the hardware input to the car may be used to acknowledge alarms.

## Remote Outputs

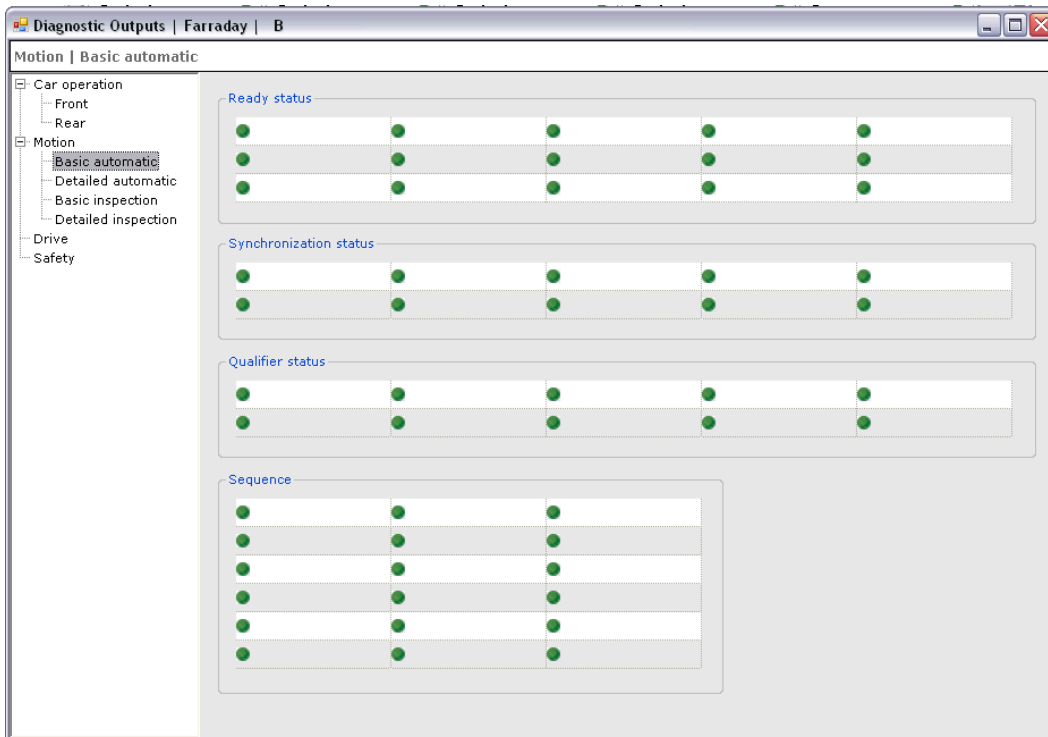
Customer configured Remote Outputs may be programmed through the iView application and may be remotely triggered through iMonitor.



- The outputs will be named as they were in iView
- Trigger an output by simply clicking the associated button
- Active outputs are indicated by a lighted LED
- Outputs will be latching or momentary as configured in iView

## Diagnostic Outputs

Allows you to view status of diagnostic outputs per car to aid in troubleshooting. Refer to the User Guide for the elevator controller. Select Remote/Diagnostic Outputs/Car ID.

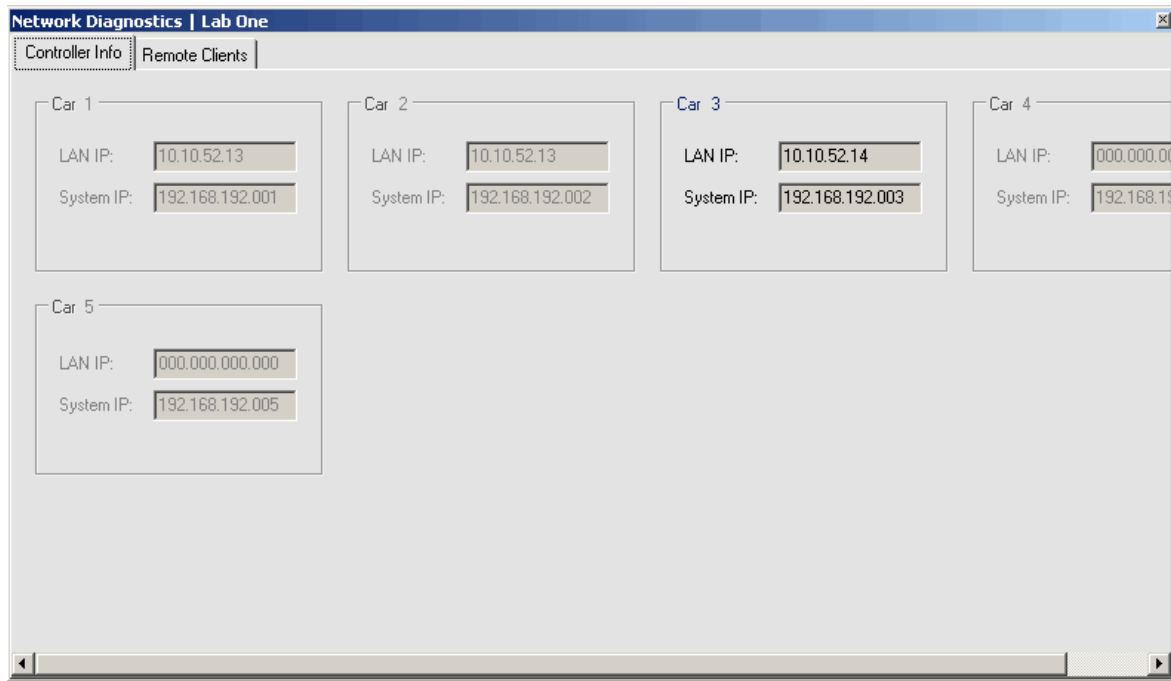


## Network Diagnostics

Network diagnostic screens allow you to review the TCP/IP settings for controllers in the group and for the Remote Client PCs.

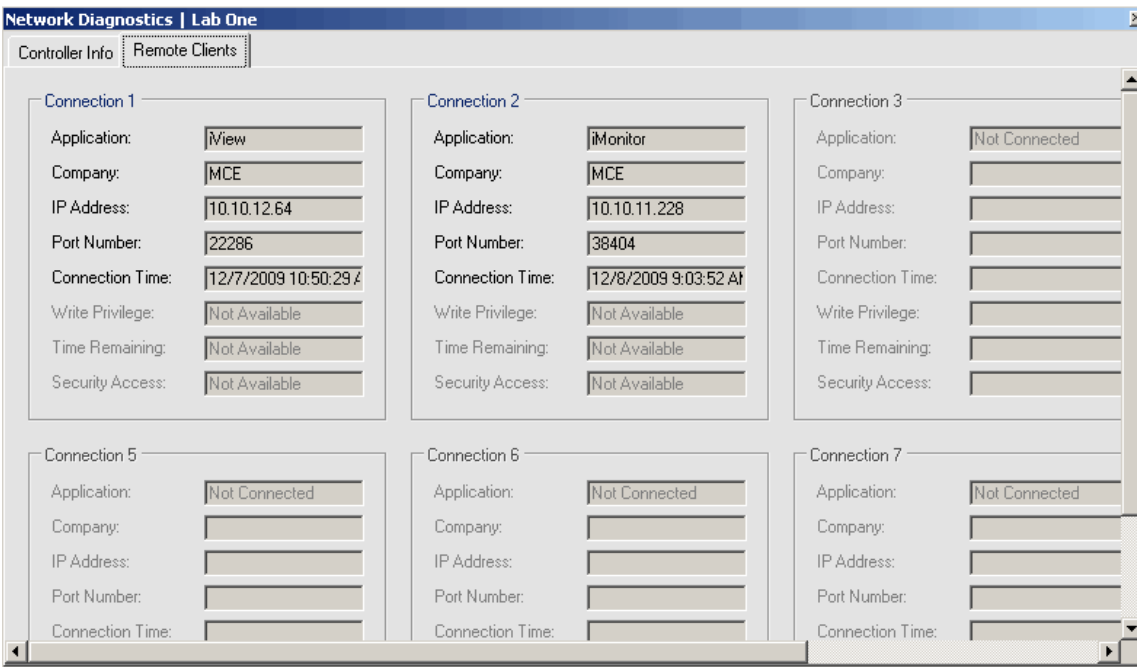
### Controller Information

The Network Diagnostics screen displays LAN and System IP addresses for the controllers in the elevator group. Using this screen, along with the IP information in Section 1 of this manual, you can verify that LAN and System IP addresses are correct. [Please refer to “MCE iControl Ethernet” on page 1-3.](#)



## Remote Clients

The Remote Clients screen displays IP, application, and access information for the Remote Client PCs currently connected to the group.



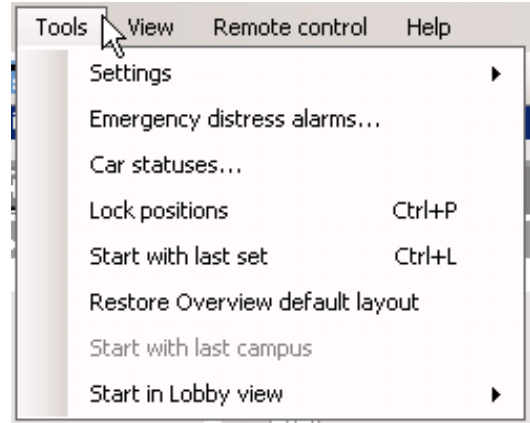
Connection	Application	Company	IP Address	Port Number	Connection Time	Write Privilege	Time Remaining	Security Access
Connection 1	iView	MCE	10.10.12.64	22286	12/7/2009 10:50:29 A	Not Available	Not Available	Not Available
Connection 2	iMonitor	MCE	10.10.11.228	38404	12/8/2009 9:03:52 A	Not Available	Not Available	Not Available
Connection 3	Not Connected							
Connection 5	Not Connected							
Connection 6	Not Connected							
Connection 7	Not Connected							

- **Application:** Displays the application being used - iView, iReport, iMonitor, or third party software.
- **Company** - the company associated with the application.
- **IP Address** - the IP address of the connected PC.
- **Port Number** - the Port assigned to the connection.
- **Connection Time** - the date and time of connection.
- **Write Privilege** - indicates whether or not the connection has been allowed write privileges
- **Time Remaining** - time remaining until the connection times out
- **Security Access** - indicates whether or not the connection has security access



## Tools Menu

Tools menu selection allows you to make car alarm settings, check status of individual cars, or determine how the display will appear when iMonitor is next started.

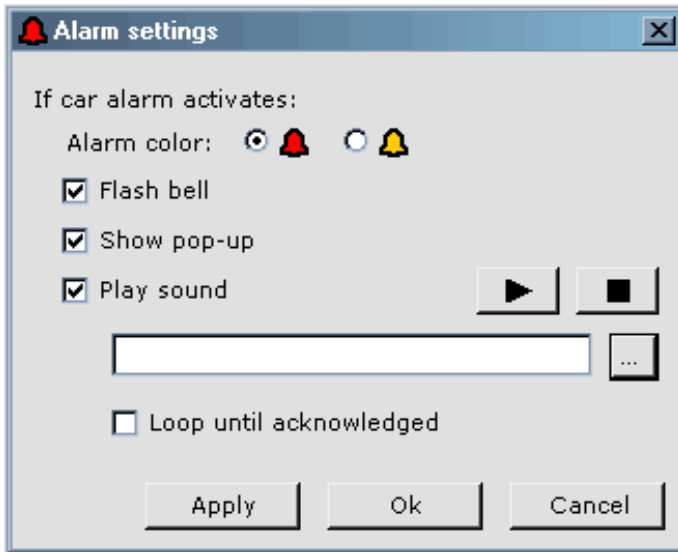


## Settings

Settings accesses alarm and car status notification options.

## Alarm Monitoring

- Tools/Settings/Alarm Monitoring: Opens the alarms setting dialog.



- Choose alarm symbol color.
- Choose whether the alarm displays solidly or flashes.



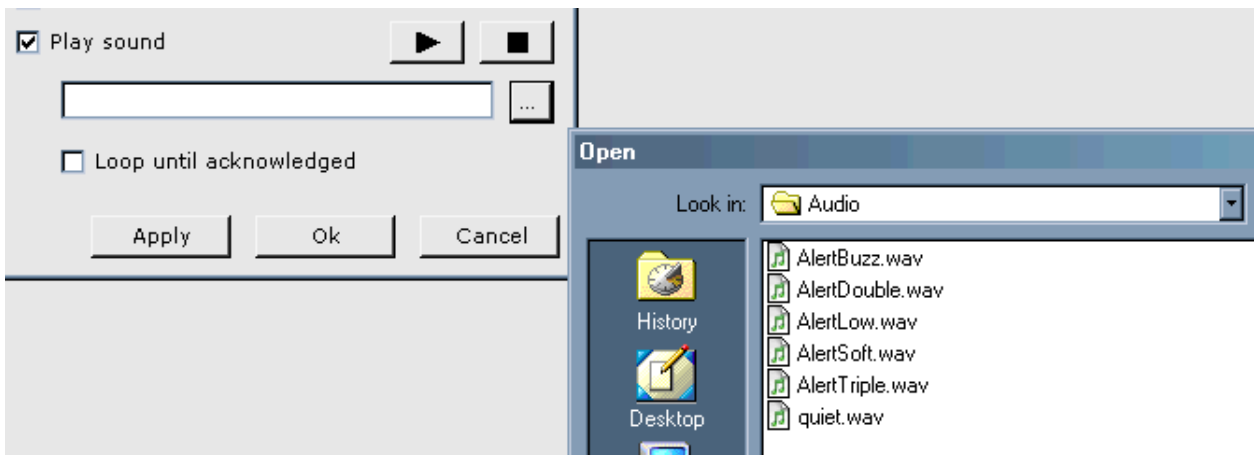
**Note**

For iControl, Alarm Monitoring must also be enabled through iView before it is available in iMonitor (Car Operations/Devices tab).

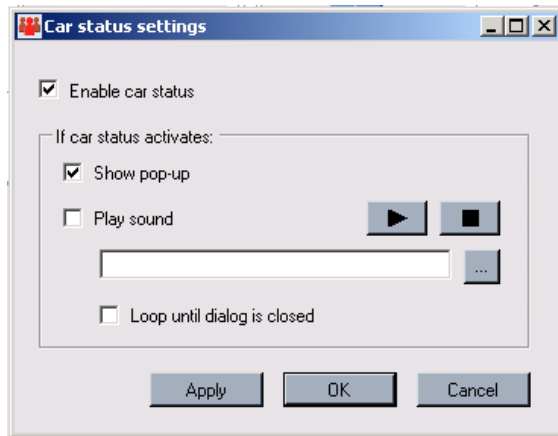
- Choose whether the acknowledge popup is displayed automatically when the alarm is activated:



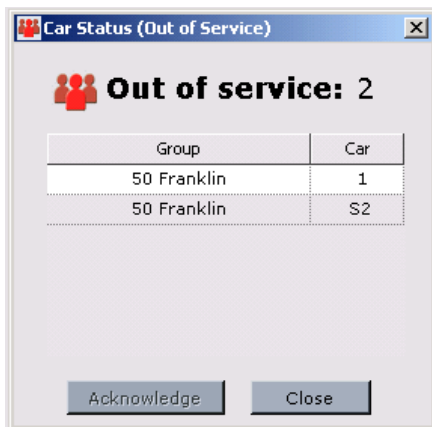
- Choose whether an audio alarm should sound, what that sound should be, and whether it should play a single time or repeat (loop) until the alarm is acknowledged:



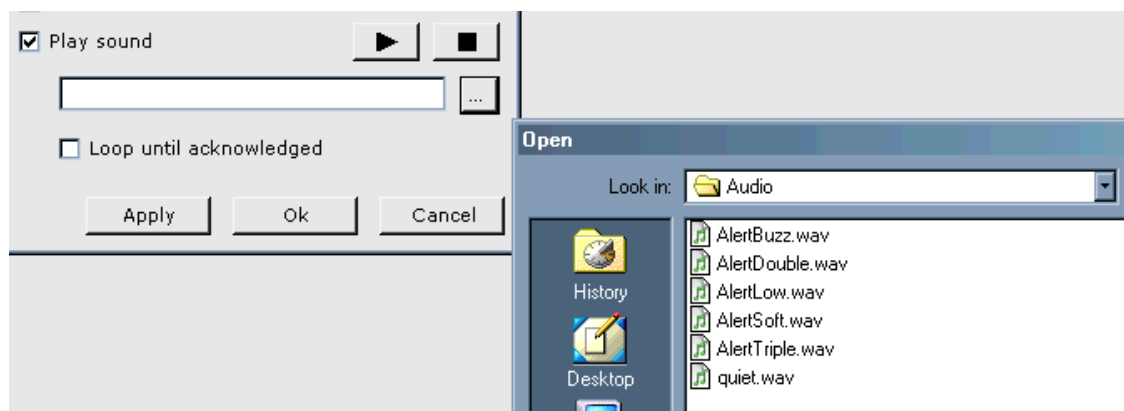
**Car Status** Car Status allows you to enable and configure car status reporting to alert the iMonitor user when a car is not being dispatched by the group control, i.e., is out of service, on swing operation, etc.



- **Enable car status:** Select to activate car status reporting (operating mode reporting).
- **Show pop-up:** Select if you want a pop-up dialog to appear when car status changes.



- **Play Sound:** Choose whether an audio alarm should sound, what that sound should be, and whether it should play a single time or repeat (loop) until the status popup is acknowledged:



### Emergency Distress Alarms

When selected, Tools/Emergency Distress Alarms displays any active distress alarm from any car in the group. This is an alternative to automatically displaying alarm pop-ups. For iControl, Alarm Monitoring must also be enabled through iView before it is available in iMonitor (Car Operations/Devices tab).

### Car Status

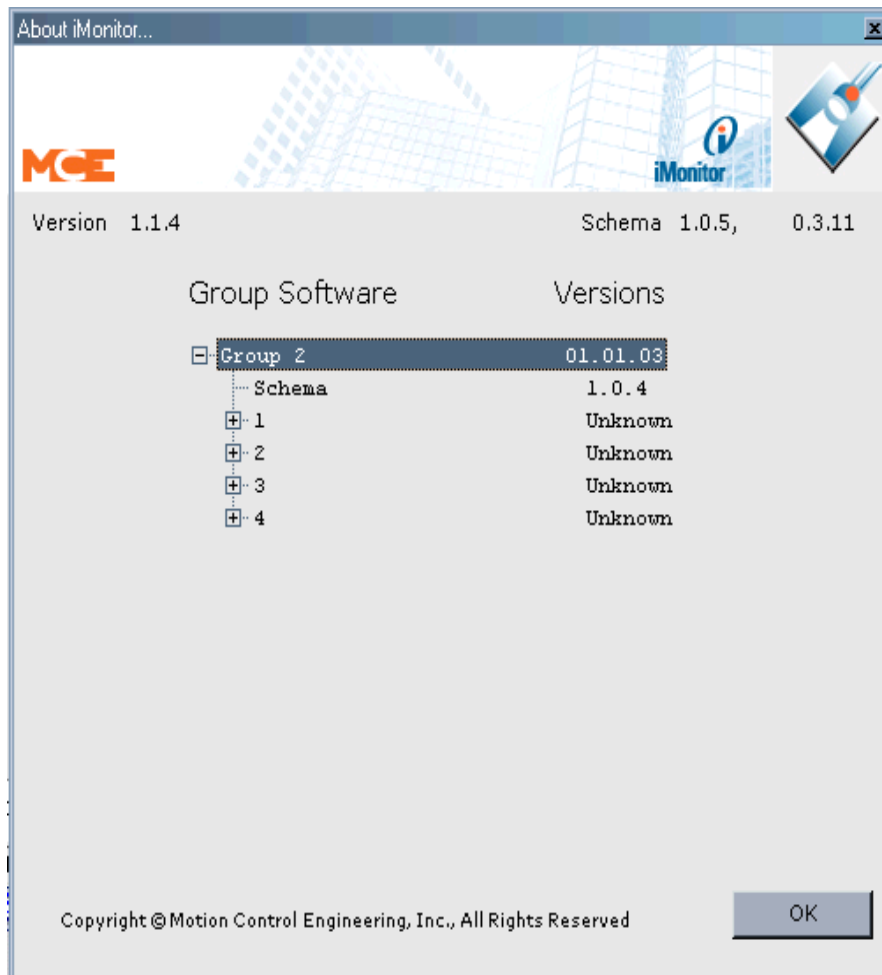
When selected, Tools/Car Status displays any active car status dialogs from any car in the group. This is an alternative to automatically displaying status pop-ups.

### Additional Tools Menu Selections

- Lock positions, when selected, prevents resizing or moving group displays on the overview screen.
- Start With Last Set: If you want iMonitor to startup with the last displayed Connection Set active, make that selection here.
- Restore Overview Default Layout: To restore the default, Overview layout, select that option here.
- Start With Last Campus: If you want iMonitor to start up with the last campus view displayed, make that selection here.
- Start In Lobby View: If you wish to start in Lobby view, make that selection here.

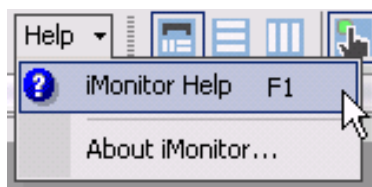
## Help Menu

- To display version information, select About iMonitor from the Help menu. When appropriate, selections in the information panes are expandable to display multiple programmable device software versions.



2

- To open online help, select Help from the Help menu.







## Quick Topics

- **iMonitor**
- **Operating Modes**
- **Detailed Screen**
- **Multiple Hoistway Screen**
- **Display Customization**



## Reference



### **iMonitor**

This section provides detailed information useful to iMonitor operators.

- **Operating Modes**
- **Connections**
- **Detailed screen explanation**
- **Multiple hoistway screen explanation**
- **Display Customization**

## Operating Modes

iMonitor displays the currently active operating mode for each car. An elevator may operate in one of many modes:

- **Attendant Service:** Usually initiated by a key-operated switch inside the car to allow the elevator to be operated by an in-car Attendant. While on Attendant service, hall and car call buttons remain active. The elevator will respond to car calls that have been enabled via different settings as specified by the car call eligibility and card reader options. During Attendant service, the Attendant inside the car controls direction of travel using the Attendant service Up and Down switches. The Attendant can also bypass hall calls using the Attendant service Non-Stop switch. Door operation is typically automatic open with constant pressure on the door close button required to close the doors. User settings are available to modify door operation if desired.
- **Capture:** The car has been placed in Capture mode using the Capture switch on the iBox. When placed in Capture mode, the car is taken out of public service. It will not respond to hall call demand or parking instructions. It will continue to service car call demand so that current passengers are not inconvenienced. The intent is to allow the car to service current passengers and then remain empty at the last serviced floor so that it may be captured for test, adjustment, or other non-passenger use.
- **Car Panel Inspection:** The car has been placed on Inspection mode using the car operating panel switch. Car panel inspection switches are then used to move the car.
- **Cartop Inspection:** The car has been placed on Inspection mode using the cartop switch. The cartop Up, Down and Safe switches are used to move the car.
- **CFSS Mode 1 (2) at Floor:** Commandeer for Special Services - The car has recalled to the CFSS floor and is waiting for a person to commandeer it according to the settings selected on the iView Configuration > Car Operation > CFSS > Mode 1 (2) tab.
- **CFSS Mode 1 (2) In-car:** Commandeer for Special Services - The in-car switch has been activated (or the car is at the recall floor if no switch). Car behavior is determined by the In-car settings on the iView Configuration > Car Operation > CFSS > Mode 1 (2) tab.
- **CFSS Mode 1 (2) Recall:** Commandeer for Special Services - A CFSS call has been initiated via a hall switch. Any other hall calls will be un-assigned from the car. Any existing car calls will be disposed of according to the Recall settings selected on the iView Configuration > Car Operation > CFSS > Mode 1 (2) tab and the car will then recall to the floor at which the CFSS call was latched.
- **Construction Car Panel Inspection:** Construction mode is enabled (iView Configuration > Safety tab), and the car operation panel inspection switch has been activated. However, while in Construction mode, the car panel inspection switches are ignored. The car can only be operated via the machine room or cartop inspection switches while in Construction mode.
- **Construction Cartop Inspection:** Construction mode is enabled (iView Configuration > Safety tab), allowing the car to be run on Inspection with a bare minimum of field wiring installed, and the cartop Inspection switch has been activated. Use the cartop Up, Down and Safe switches to move the car. Place the car on machine room or cartop inspection and operate the car with the appropriate switches.



- **Construction Hoistway Access Inspection:** Construction mode is enabled (iView Configuration > Safety tab), and the hall mounted Access switch has been activated. However, while in Construction mode, the hoistway access inspection switches are ignored. The car can only be operated via the machine room or cartop inspection switches while in Construction mode. Place the car on machine room or cartop inspection and operate the car with the appropriate switches.
- **Construction Inspection:** Construction mode is enabled (iView Configuration > Safety tab), allowing the car to be run on Inspection with a bare minimum of field wiring installed, and the car is operating on Inspection operation. The car can be moved using either the cartop or machine room inspection operation switches.
- **Construction Machine Room Inspection:** Construction mode is enabled (iView Configuration > Safety tab), allowing the car to be run on Inspection with a bare minimum of field wiring installed, and the iBox INSPECTION switch has been placed in the INSP position. Use the iBox Up, Down and Enable switches to move the car.
- **EMS In-car (Switch 1 / 2):** Emergency Medical Service - The EMS in-car switch has been activated. The car remains on EMS operation until it is returned to the recall floor and the in-car switch is deactivated or times out.
- **EMS Recall (Switch 1 / 2):** Emergency Medical Service has been activated via a hall switch (1 or 2). Car behavior, including the designated recall floor, is determined by the General settings on the iView Configuration > Car Operation > EMS > Switch 1 (2) tab.
- **Fire Service In-car:** In-car Firefighter Service has been activated via the in-car fire service key-switch. Car and door behavior is determined by the fire code settings on the iView Configuration > Car Operation > Fire service > Fire code > In-car tab.
- **Fire Service Recall Alternate:** Fire Recall Operation (Phase I), to the alternate fire recall floor has been initiated. Generally this is initiated by the activation of a smoke detector at the main fire recall floor. The car proceeds to the alternate fire recall floor designated on the iView Configuration > Car Operation > Fire service tab. Car and door behavior is determined by the fire code settings on the iView Configuration > Car Operation > Fire service > Fire code > Recall tab.
- **Fire Service Recall Main:** Fire Recall Operation (Phase I), at the main fire recall floor, has been initiated. Generally this is initiated by the activation of a smoke detector on a floor other than the main fire recall floor. Can also be initiated by the activation of the fire recall switch input. The car proceeds to the main fire recall floor designated on the iView Configuration > Car Operation > Fire service tab. Car and door behavior is determined by the fire code settings on the iView Configuration > Car Operation > Fire service > Fire code > Recall tab.
- **Hoistway Access:** The car has been placed on Hoistway Access Inspection mode using one of the hall panel mounted switches. The car can be positioned to allow access to the cartop or bottom.

- **Independent Service:** Independent service is usually initiated by a key-operated switch inside the car to allow the elevator to be operated by an in-car Attendant. While on Independent service, hall call buttons and lamps for the elevator are disabled. The elevator will respond only to car calls that have been enabled via different settings as specified by the car call eligibility and card reader options. Door operation is typically automatic open with constant pressure on the door close button required to close the doors. However, user settings are available to modify door operation if desired.
- **Inspection:** One of the inspection modes (in-car, machine room or cartop) is active and the car is operating in Inspection mode. Inspection acceleration profile parameters are used.
- **Machine Room Inspection:** The car has been placed on Machine Room Inspection using the iBox Inspection switch. (All other Inspection modes must be inactive before Machine Room Inspection may be enabled.)
- **Passenger:** The car is operating in normal passenger mode, responding to dispatching and parking instructions and to hall and car call demands. Car and door operation are determined by settings on the iView Configuration > Car Operation > Passenger tab.
- **Sabbath Operation:** The elevator is operating in Sabbath mode initiated by a software command, switched input, or timer. Sabbath mode allows the elevator to operate, serving the building without requiring buttons to be pressed for hall calls or car calls. Car behavior is determined by parameters located on the iView Configuration > Car Operation > Sabbath operation tab.

**Note**

**Test:** Indicates that the iBox Test switch is in the Test position and the elevator is in Test mode, generally used to adjust or test the elevator. The elevator operates the same as in normal passenger mode except that the doors are disabled and no hall calls are registered.

**Note**

**Commandeer for Special Service** is a special operating mode, much like EMS (Code Blue). Typically, a keyed switch is installed at a particular floor. When the switch is activated, the car disposes of existing car calls as programmed in the iView application, and recalls to a designated floor. At the floor, phase II (operation in the mode) is initiated either by activation of a switch in the car or simply by placing a car call (as programmed in iView). A timer in iView may be programmed so that, if the car has waited at the recall floor the set period of time and phase II has not been initiated, the car will automatically return to the prevailing service mode.

# Connections

The Connections screen allows you to create connections for elevator groups to be monitored.

Click to delete the connection

Alternate Connection lists must match their Alternate Dispatcher's Auto-select Preference Order

	Connection name	IP address	Hardware Type	Device ID	
1			▼	▼	X
2			▼	▼	X
3			▼	▼	X
4			▼	▼	X
5			▼	▼	X
6			▼	▼	X
7			▼	▼	X
8			▼	▼	X
9			▼	▼	X
10			▼	▼	X

	Connection name	IP address	Device ID	
1			▼	X
2			▼	X
3			▼	X
4			▼	X
5			▼	X
6			▼	X
7			▼	X
8			▼	X
9			▼	X
10			▼	X

OK Cancel

Click to save changes

3

## Connections Tab

- **Connection name:** Provide a logical name for the group.
- **IP address:** Provide the group IP address. Refer to connection information in Section 1 of this manual if you do not understand IP addressing. [Please refer to “MCE iControl Ethernet” on page 1-3.](#)
- **Hardware Type:** iMonitor works with equipment including -
  - **iCue:** Stand alone, group controller for iControl elevator groups.
  - **iBox (Alternate Dispatcher):** An iControl elevator controller that is the alternate group controller should the iCue fail.
  - **iBox (Simplex):** An iControl elevator control operating as a simplex elevator.
  - **Swing Panel (Group):** A central, stand alone group controller for a group of IMC elevators.
  - **Swing Panel (Simplex):** An IMC elevator control operating as a simplex elevator.
  - **Hydro (Duplex):** HMC hydraulic controller functioning as a dispatcher for one additional HMC controller.
  - **Hydro (Simplex):** HMC hydraulic controller operating as a simplex elevator.
  - **Traction (Duplex):** PTC traction controller functioning as a dispatcher for one additional controller.
  - **Traction (Simplex):** PTC traction controller operating as a simplex elevator.
  - **M3000ES:** Motion 3000 escalator controller.
  - **M2000 (Simplex):** Motion 2000 hydraulic controller operating as a simplex elevator.
  - **M2000 (Duplex):** Motion 2000 controller functioning as a dispatcher for one additional controller.
  - **M Group:** Motion elevator group controller.
  - **M4000 (Simplex):** Motion 4000 controller operating as a simplex elevator.
  - **M4000 (Duplex):** Motion 4000 controller functioning as a dispatcher for one additional controller.
  - **Third Party Escalator:** Properly equipped third party escalator controller.
- **Device ID:** Assigned automatically by iMonitor when you save information entered on the Connections screen. Or, when defining Alternate Connections, set to the same as the Car ID.

### Alternate Connections

When an elevator controller or group dispatcher is acting as a backup dispatcher for a dispatcher or other controller, it is an Alternate connection. iMonitor always first attempts to establish communication with the primary connection. If that connection cannot be established, iMonitor attempts to establish communication with the Alternate connection.

**iControl Alternates** To create alternate connections:

1. On the Connections Set tab, highlight the **Primary Connection**.
2. Any currently defined **alternate connections** for **that** primary connection will appear in the Alternate Connections pane below. In other words, you must select a Primary Connection before any existing Alternate Connections will be visible to you.
3. To designate alternates to appear in the list, connect to the dispatcher (iCentral or iBox) through the **iView** connection.
4. On the System Configuration, Building tab, select alternate dispatchers and designate them to be activated manually or automatically. Auto selected cars will appear in the Auto-select list.
5. Move desired cars from the Local Cars list to the Alternate Dispatcher list and order them top-to-bottom as you want them to be activated. Save your changes.

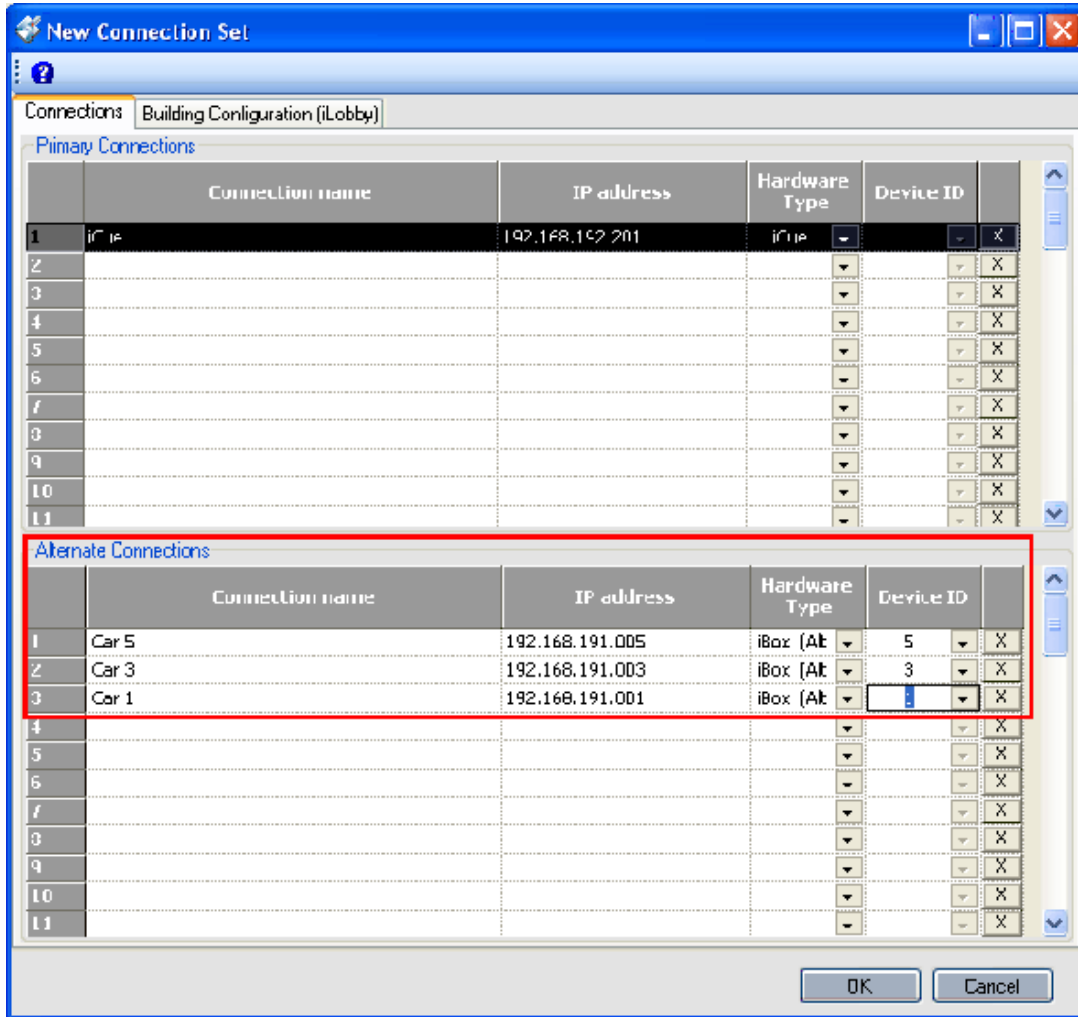
Box shown here is on the iMonitor screen

This is the iView System Configuration, Building tab screen

Device ID	X
5	X
3	X
1	X
	X

Back in iMonitor, set hardware type and Device ID for the alternates:

1. From the drop down, select the hardware type of the alternate.
2. From the Device ID drop down, set the ID to match the Car ID from the iView screen.  
(Car ID = Device ID)



**Motion Alternates** To create alternate connections:

1. On the Connections Set tab, highlight the **Primary Connection**.  
If any currently defined **alternate connections** for **that** primary connection exist, they will appear in the Alternate Connections pane below. You must select a Primary Connection before any existing Alternate Connections are visible or editable.
2. To create an alternate, click in the name field for the first available Alternate connection and provide a logical name for the connection.
3. Provide the IP address and hardware type. Ignore Device ID; it is assigned internally.
4. Click OK to save your information.

## Building Configuration / iLobby Tab

Activating this tab accesses screens that allow you to set up the iLobby display.

### General

- Click on the Building Configuration tab
- Select the group to be configured for display

**Edit Connection Set**

Connections | Building Configuration (iLobby)

Primary connections: 50 Franklin

Changes in any building configuration value requires closing and reopening the application to have the corresponding changes in Lobby View.

General | Building floor heights | Per car settings

Number of cars: 0

Number of floors: 0

Lobby floor: 1

Car height: 0

Show registered hall call:

Show time:

Show date:

Show "You Are Here":

\* Required fields

OK Cancel

- Enter the number of cars in the group
- Enter the number of floors served by the group
- Enter the lobby floor for the group
- Enter the height of the cars in the group
- Show registered hall call: Enable to show the system hall call riser on the lobby display.
- Time and Date are not yet active
- Show "You Are Here": Enable to display a star at the Lobby floor

## Building floor heights

This screen allows you to define the floor heights so that the cars appear in the correct positions on the lobby display.

Connections
Building Configuration (iLobby)

Primary connections: Farraday ▼

General
Building floor heights
Per car settings

Drag a column header here to group by that column.

Floor#	Floor height (ft) *
1	0
2	3
3	6
4	9
5	12
6	15
7	18
8	21
9	24
10	27

**Auto configure**

Start floor:

End floor:

Start value:

Increment:  Apply

**Per Floor Entry** Enter the height in feet up to two decimal places. (Example: 8.25 = 8 feet, 3 inches.)

- Obtain the learned floor heights from the iView building configuration.
- Distances accumulate. For example, if the first floor is 0.5 feet and the second floor is 8.5 feet, the third floor will be something like 16.5 feet (current floor plus preceding).

**Auto Configure** Enter a starting and an ending floor, a starting value (first floor height), and a common floor height to increment by (say 10 feet). Click Apply and the floor heights table will populate automatically. You can then edit it as needed.



## Per Car Settings

This screen allows you to define offset and door times for each car.

Connections Building Configuration (iLobby)

Primary connections: Farraday

General Building floor heights Per car settings

Drag a column header here to group by that column.

Car#	Bottom floor offset (ft) *	Door opening time (sec) *	Door closing time (sec) *
1	0	3	3
2	0	3	3
3	0	3	3
4	0	3	3
5	0	3	3

- **Bottom Floor offset:** If a car does not serve the bottom floor of the group, provide an offset value equal to the height of the lowest floor it does serve.
- **Door Opening Time:** The time in seconds it takes this car to open its doors.
- **Door Closing Time:** The time in seconds it takes this car to close its doors.

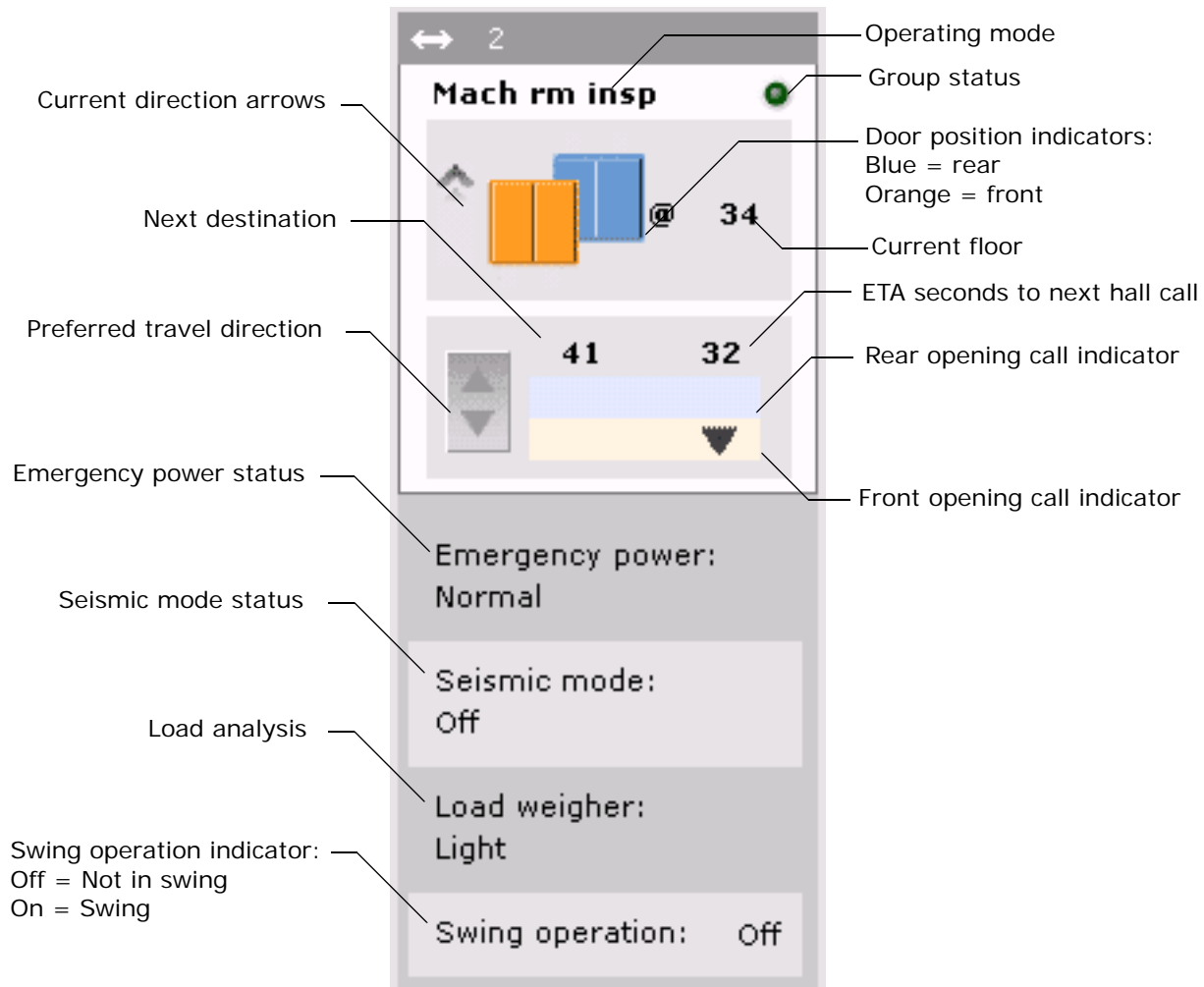


## Detailed View Explanation

The Detailed View screen narrows the focus to a single elevator group, providing more information per car.

- Select Detailed View/Group name from the View menu.

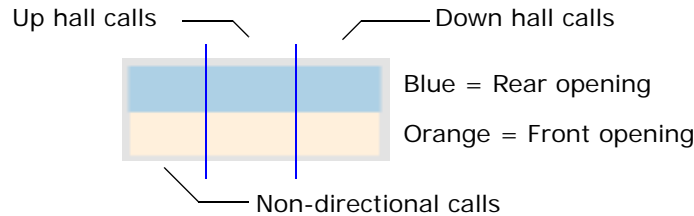
For as many cars as are in the selected group, you will see the following per car information.



- Operating mode: [Please refer to “Operating Modes” on page 3-2.](#)
- Group Status: Lighted = Under group control. Dark = Not in group control.
- Door position indicators: Real time door position. Blue = Rear. Orange = Front.
- Current floor: Floor elevator is at or passing.
- Current direction arrows: Animated travel direction indicators.
- Next destination: Floor of next stop.
- Preferred travel direction: Direction in which the elevator prefers to move from the current location.
- ETA: ETA to Next destination (if a hall call).
- Rear opening call indicator: Indicates call/direction for rear hall calls.
- Front opening call indicator: Indicates call/direction for front hall calls.


**Note**

The front/rear hall call indicator bands are separated as follows:



- **Non-directional calls:** “Hall” calls that do not imply a requested direction of travel. For example, CFSS calls, EMS (Code Blue) calls, etc.
- **Emergency power status:**
  - **Normal:** Car is operating under normal power.
  - **Run:** Car is running under emergency power.
  - **Recall:** Car is recalling to emergency power recall floor.
  - **Freeze:** Car stopped immediately because of power loss.
  - **Recall next floor:** Car is recalling to emergency power recall floor — designated as the next floor in the current direction of travel.
- **Seismic mode status:**
  - **Normal:** No seismic (earthquake) activity detected.
  - **On:** Seismic activity detected. Car operating as programmed in iView.
  - **Off:** Seismic mode is not active.
- **Load weigher status:** Report of load currently in car.
- **Swing operation indicator:** If lighted, a special set of hall calls (a swing riser) for this car has been activated. The car will not respond to hall calls registered to the group.
- **Sabbath operation:**
  - **On:** Sabbath operation is active. In Sabbath operation, the car will service floors as defined through iView in a semi-automated fashion, requiring no car calls to be registered.
  - **Off:** Sabbath operation not active.
- **Flood operation:**
  - **On:** The car is operating in Flood mode with floor access restrictions as defined in iView.
  - **Off:** Flood operation is not active.
- **Auto-stop:**
  - **On:** The car is observing auto-stop operation as defined in iView. Generically, auto-stop requires that a car traveling past a specified floor pause and cycle its doors so that the occupants may be observed.
  - **Off:** Auto-stop mode is not active.


**Note**

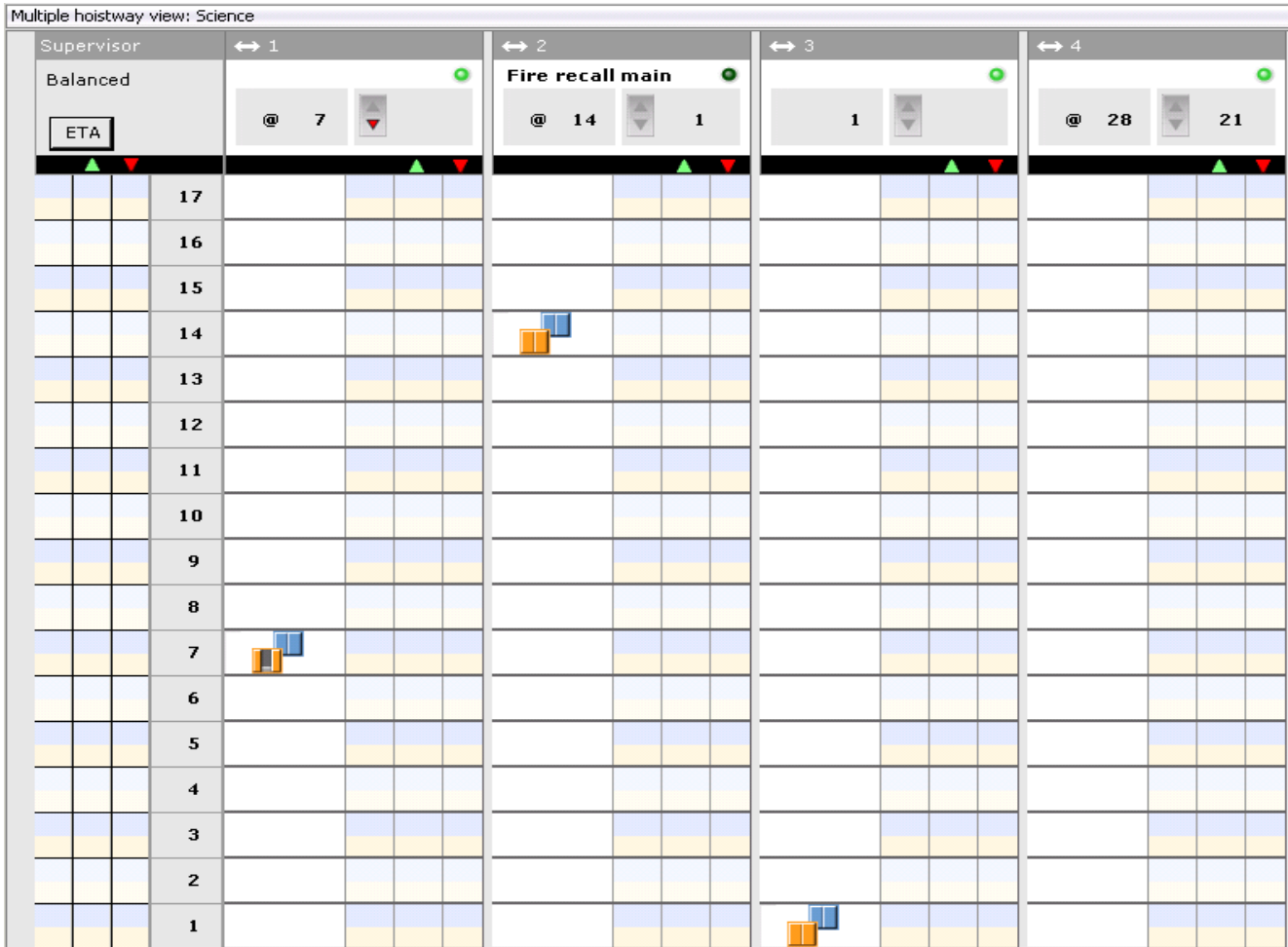
Displayed indicators will vary from car to car depending upon available options and operating modes. For example, if a car does not have Flood operation, Flood status will not be displayed.



## Multiple Hoistway View Explanation

This view provides hoistway position, call information, and more for all cars in the selected group.

- Select Multiple Hoistway View/Group name from the View menu.



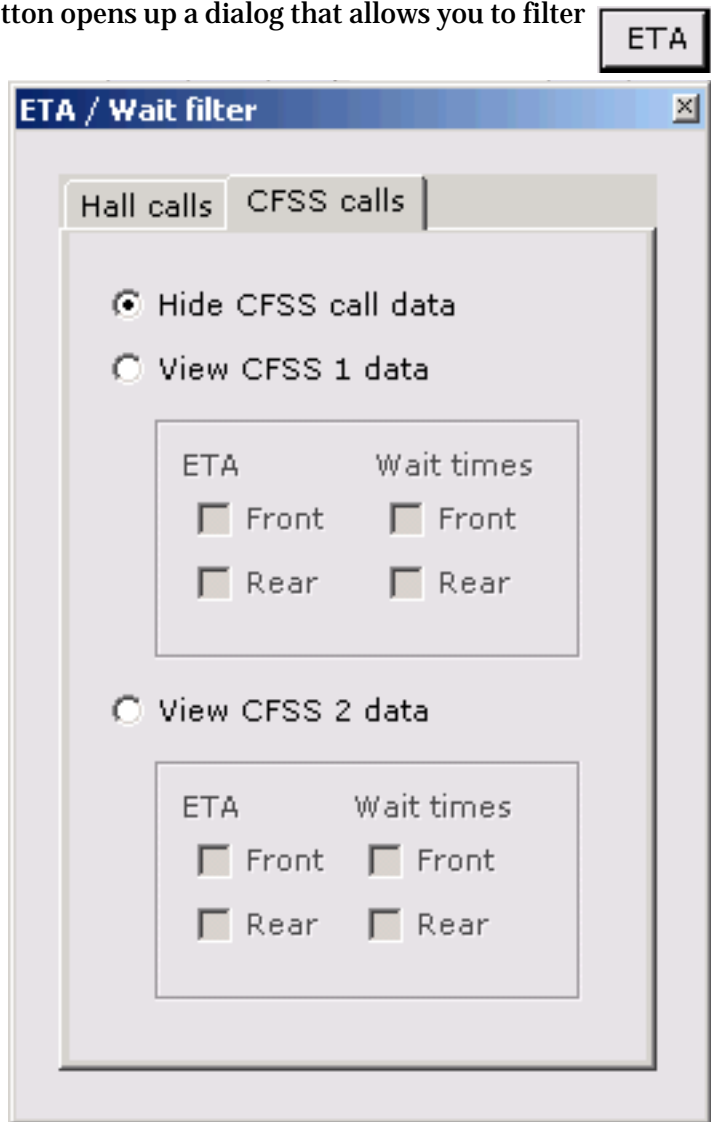
## Supervisor Information

The Supervisor column of the Hoistway View screen provides traffic mode and Estimated Time of Arrival information for the group.

- **Traffic Mode:** (Balanced in this example) Displays the current mode through which the elevator group is servicing traffic within the building. This mode may be selected manually, by timer, or automatically according to iCue analysis of realtime traffic conditions.
  - **Balanced:** All elevator traffic within the building is receiving equal priority from the group.
  - **Lobby Peak:** Designated lobby floors are receiving priority attention. Generally active during morning arrival times when traffic is heaviest departing the lobby for other floors.
  - **Demand Up Peak:** Upward bound traffic is given priority. If assigned dynamically, made active when approximately 80% of building traffic is in the up direction.
  - **Demand Down Peak:** Downward bound traffic is given priority. If assigned dynamically, made active when approximately 80% of building traffic is in the down direction.
  - **Auto-mode (i.e., Balanced, Lobby peak, Dmd up, Dmd down):** The traffic mode is being controlled dynamically by iCue according to real time traffic analysis and learned building traffic patterns.
- **ETA:** Estimated Time of Arrival. The time, in whole seconds, in which iCue estimates a registered hall call will be serviced. ETA counts in the blue zone indicate a rear hall call. ETA counts in the orange zone indicate a front hall call.
  - **Up / Down Columns:** When a hall call is placed, its ETA will be displayed in the Up or Down (as appropriate) hall column next to the floor from which the car was placed. The ETA will count down to the arrival of the responding car.
  - **Non-directional:** An ETA in the left-most column indicates a non-directional “hall” call has been placed at this floor. Non-directional calls are calls that do not indicate a requested direction of travel. For example, CFSS calls, EMS calls, etc.

Supervisor			
Balanced			
ETA			
▲ ▼			
			17
			16
			15
			14
			13
			12
			11
			10
			9
			8
			7
			6
			5
			4
			3

- **ETA Filtering:** Clicking the ETA button opens up a dialog that allows you to filter ETA information as desired.
- **CFSS calls:** Allows you to choose how CFSS ETA counts are displayed:
  - **Hide CFSS call data:** Do not display CFSS call ETA.
  - **View CFSS 1 data:** Display ETA and wait time data as selected for CFSS 1 only.
  - **View CFSS 2 data:** Display ETA and wait time data as selected for CFSS 2 only.



ETA

- **Hall calls:** Allows you to select how hall call ETA counts are displayed.
  - **Hide hall call data:** Do not display hall call ETA.
  - **View main data:** Display ETA and wait time data as selected for main hall calls only.
  - **View AUX data:** Display ETA and wait time data as selected for auxiliary hall calls only.

ETA / Wait filter

Hall calls | CFSS calls

Hide hall call data

View main data

ETA	Wait times
<input type="checkbox"/> Front	<input type="checkbox"/> Front
<input type="checkbox"/> Rear	<input type="checkbox"/> Rear

View AUX data

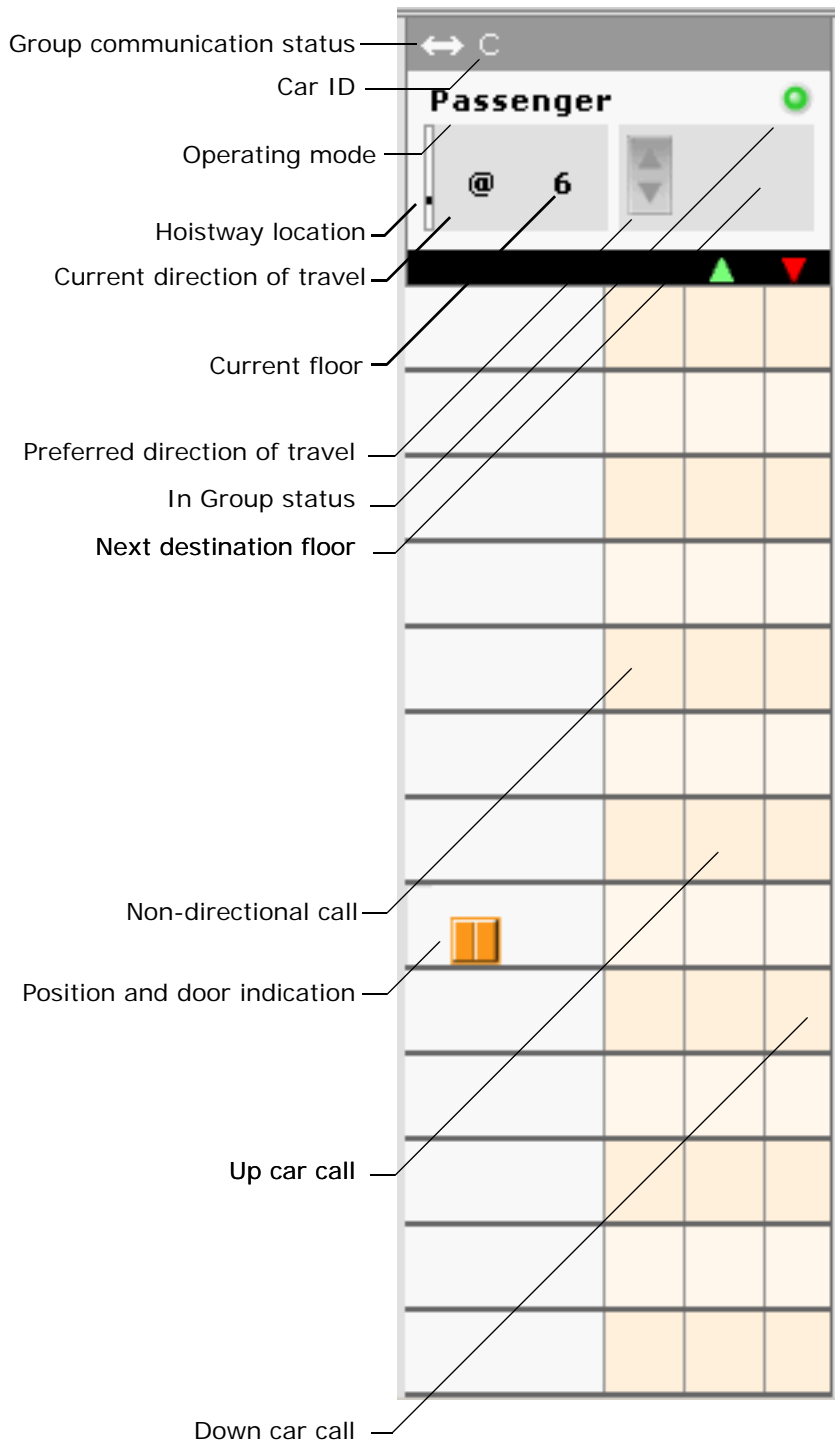
ETA	Wait time
<input type="checkbox"/> Front	<input type="checkbox"/> Front
<input type="checkbox"/> Rear	<input type="checkbox"/> Rear

## Per Car

Per car, the Hoistway View screen provides:

- Comm status: As shown when communication is good. Separated by red slash and offset if communication is lost.
- Car ID: Car label.
- Operating mode: [Please refer to "Operating Modes" on page 3-2.](#)

[Please refer to "Detailed View Explanation" on page 3-12 for remaining call out descriptions.](#)



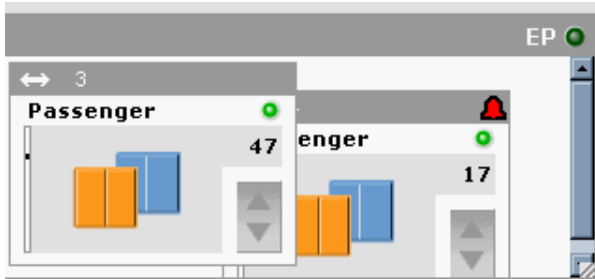


## Display Customization

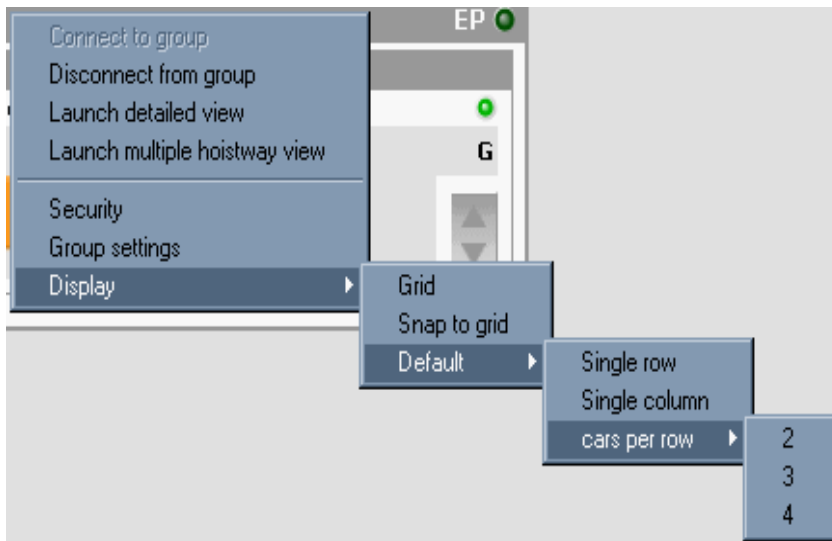
There are options to modify the screen presentation of the iMonitor “overview” and options to customize the screen presentation when iMonitor is used to drive a lobby display.

### Customizing the Overview

While in overview, you may click/drag the lower right corner of a group pane to resize it as desired. After resizing, you can drag individual cars to arrange them in any order or pattern. Click and drag in the top bar of a car window and drag it to a new location.

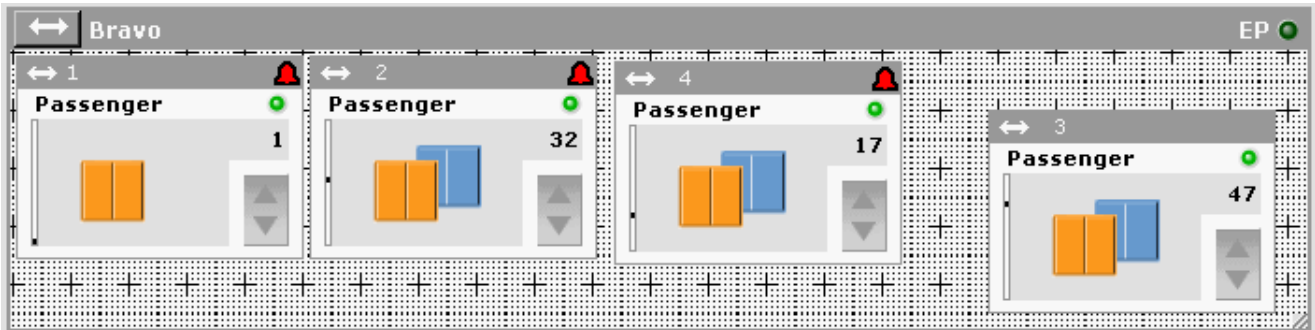


From the overview, you may customize your iMonitor display by right-clicking in the top bar, selecting Display, then selecting the display option:

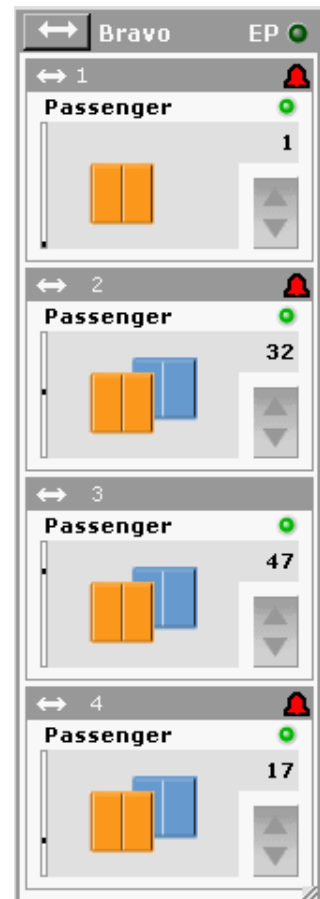


3

- Grid: Displays a reference grid behind the cars:



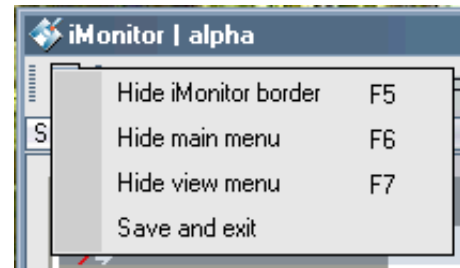
- Snap to grid: Causes a dragged car to snap to a grid marker when released.
- Default 1 row: Reverts the display to the traditional single row display with cars in 1, 2, 3, 4, etc. order.
- Default single row/column: Displays cars in a numerically ordered row or column.
- Display cars 2 (3 or 4) per row: Displays the cars in rows of two, three, or four:



### Lobby Display

In the View menu, there are selections used to set up the display for use in the building lobby.

- **Hide iMonitor border:** Conceals the border surrounding the iMonitor display.
- **Hide main menu:** Conceals the toolbar menu selections.
- **Hide view menu:** Conceals the view selecting icons in the toolbar.



To reveal any hidden screen element, simply press the F5/F6/F7 shortcut key.



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