

# 1 Elevator Restriction Migration for Firmware Version 3

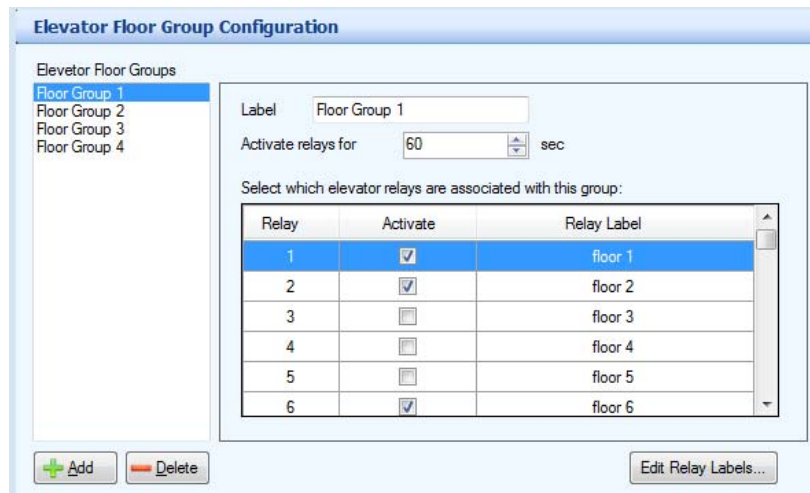
This document describes how to migrate a TX3 elevator restriction system from version 3.0.x or 3.1.x to 3.4.x.

## 1.1 Overview

In the new elevator restriction system, **access points** and **residents** control elevator addresses, and **floor groups** control relays (floors).

### 1.1.1 Floor Groups

In the new card access system, each access level is assigned to a floor group. Floor groups are groups of relays that are assigned to access levels.



**Elevator Floor Group Configuration**

Elevator Floor Groups

- Floor Group 1
- Floor Group 2
- Floor Group 3
- Floor Group 4

Label: Floor Group 1

Activate relays for: 60 sec

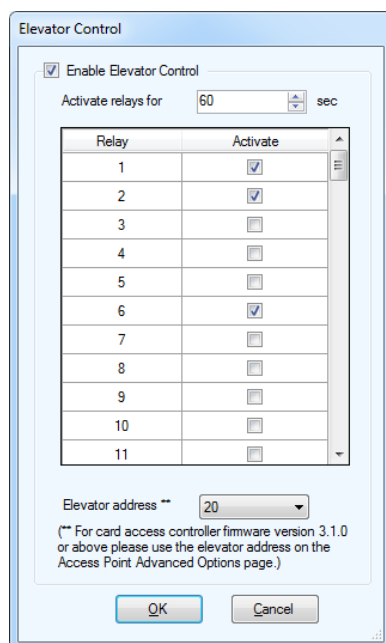
Select which elevator relays are associated with this group:

| Relay | Activate                            | Relay Label |
|-------|-------------------------------------|-------------|
| 1     | <input checked="" type="checkbox"/> | floor 1     |
| 2     | <input checked="" type="checkbox"/> | floor 2     |
| 3     | <input type="checkbox"/>            | floor 3     |
| 4     | <input type="checkbox"/>            | floor 4     |
| 5     | <input type="checkbox"/>            | floor 5     |
| 6     | <input checked="" type="checkbox"/> | floor 6     |

+ Add   - Delete   Edit Relay Labels...

Figure 1. Floor Groups

For each access level in the old system, there is a corresponding floor group that controls the same relays.



**Elevator Control**

☒ Enable Elevator Control

Activate relays for: 60 sec

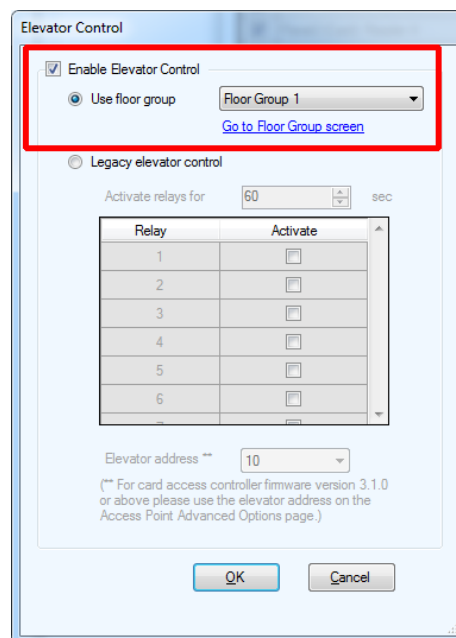
| Relay | Activate                            |
|-------|-------------------------------------|
| 1     | <input checked="" type="checkbox"/> |
| 2     | <input checked="" type="checkbox"/> |
| 3     | <input type="checkbox"/>            |
| 4     | <input type="checkbox"/>            |
| 5     | <input type="checkbox"/>            |
| 6     | <input checked="" type="checkbox"/> |
| 7     | <input type="checkbox"/>            |
| 8     | <input type="checkbox"/>            |
| 9     | <input type="checkbox"/>            |
| 10    | <input type="checkbox"/>            |
| 11    | <input type="checkbox"/>            |

Elevator address \*\*: 20

(\*\* For card access controller firmware version 3.1.0 or above please use the elevator address on the Access Point Advanced Options page.)

OK Cancel

**Old Access Level - Elevator Control**



**Elevator Control**

☒ Enable Elevator Control

☒ Use floor group: Floor Group 1

[Go to Floor Group screen](#)

☐ Legacy elevator control

Activate relays for: 60 sec

| Relay | Activate                 |
|-------|--------------------------|
| 1     | <input type="checkbox"/> |
| 2     | <input type="checkbox"/> |
| 3     | <input type="checkbox"/> |
| 4     | <input type="checkbox"/> |
| 5     | <input type="checkbox"/> |
| 6     | <input type="checkbox"/> |

Elevator address \*\*: 10

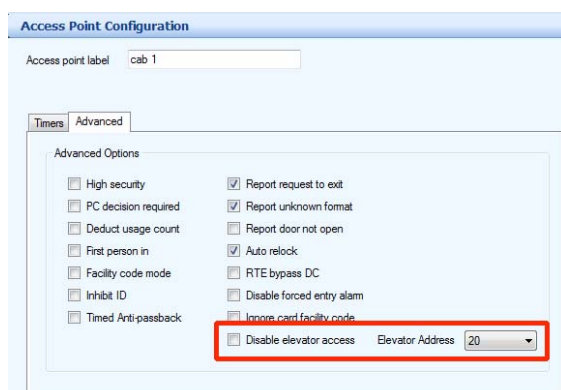
(\*\* For card access controller firmware version 3.1.0 or above please use the elevator address on the Access Point Advanced Options page.)

OK Cancel

**New Access Level - Elevator Control**

**Figure 2. New and Old Access Level - Elevator Control**

Each access point can control one or more elevator restriction units.



**Access Point Configuration**

Access point label: cab 1

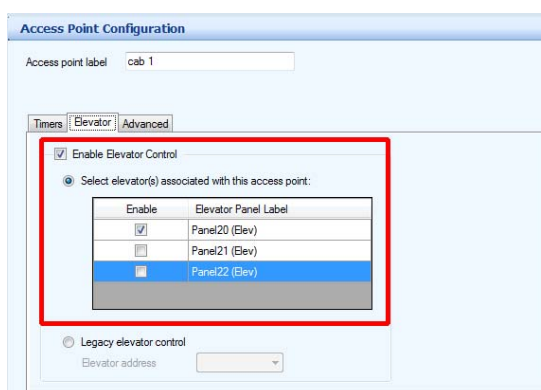
Timers: Advanced

Advanced Options

- ☐ High security
- ☐ PC decision required
- ☐ Deduct usage count
- ☐ First person in
- ☐ Facility code mode
- ☐ Inhibit ID
- ☐ Timed Anti-passback
- ☒ Report request to exit
- ☒ Report unknown format
- ☐ Report door not open
- ☒ Auto relock
- ☐ RTE bypass DC
- ☐ Disable forced entry alarm
- ☐ Ignore card facility code
- ☒ Disable elevator access

Elevator Address: 20

**Old Access Point - Elevator Control**



**Access Point Configuration**

Access point label: cab 1

Timers: Elevator: Advanced

☒ Enable Elevator Control

☒ Select elevator(s) associated with this access point:

| Enable                              | Elevator Panel Label |
|-------------------------------------|----------------------|
| <input checked="" type="checkbox"/> | Panel20 (Elev)       |
| <input type="checkbox"/>            | Panel21 (Elev)       |
| <input checked="" type="checkbox"/> | Panel22 (Elev)       |

☐ Legacy elevator control

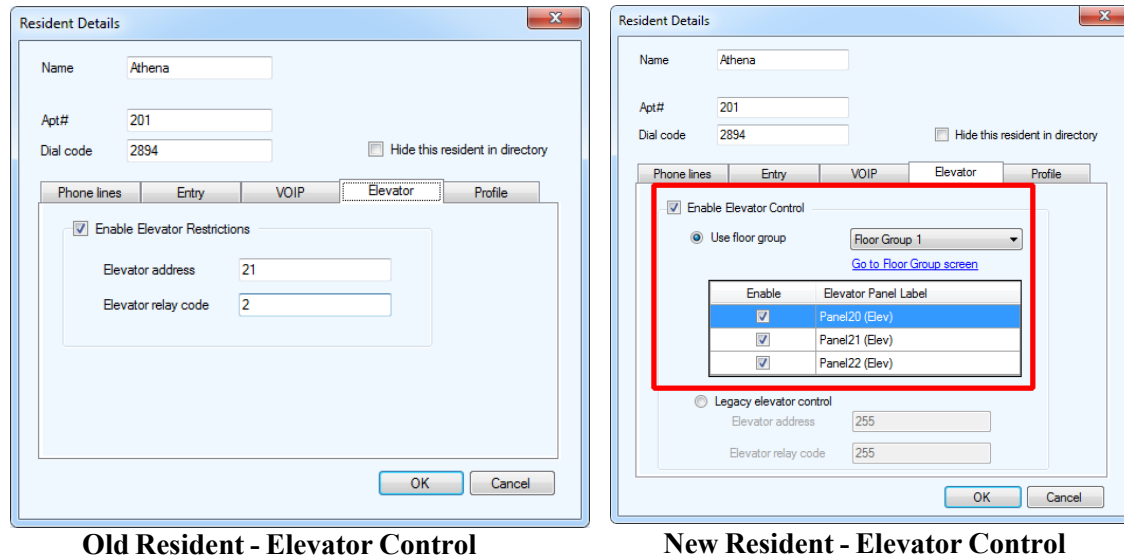
Elevator address:

**New Access Point - Elevator Control**

**Figure 3. New and Old Access Point - Elevator Control**

## 1.1.2 Telephone Access

In the new telephone access system, each resident is assigned to a floor group, and to one or more elevator restriction units.



**Figure 4. New and Old Resident - Elevator Control**

## 1.2 Example

This example 6-storey building has both a card access and telephone access system. Residents have access to the floor that they live on, and all residents have access to the first floor and the 6th floor (a common area). There are 4 access levels: one access level for every residential floor. There are 3 elevator cabs in the building lobby.

In the new system, you must create a floor group for each access level. Each floor group includes the same relays as the corresponding access level. See Table 1 below.

**Table 1: Example Access Levels and Corresponding Floor Groups**

| Access Level   | Relays  | Activate relays for | Corresponding Floor Group | Relays for Corresponding Floor Group |
|----------------|---------|---------------------|---------------------------|--------------------------------------|
| Access Level 1 | 1, 2, 6 | 60                  | Floor group 1             | 1, 2, 6                              |
| Access Level 2 | 1, 3, 6 | 60                  | Floor group 2             | 1, 3, 6                              |
| Access Level 3 | 1, 4, 6 | 60                  | Floor group 3             | 1, 4, 6                              |
| Access Level 4 | 1, 5, 6 | 60                  | Floor group 4             | 1, 5, 6                              |

The building has 3 elevator cabs with the addresses 20, 21, and 22. There is an access point inside each elevator cab. See Table 2.

**Table 2: Example Access Points**

| Access Point | Elevator Address |
|--------------|------------------|
| 1            | 20               |
| 2            | 21               |
| 3            | 22               |

Each resident is assigned an elevator address and elevator relay code. Each resident's card is assigned an access level. Table 3 shows 8 of the residents in the building.

**Table 3: Example Residents**

| Resident   | Elevator Address | Elevator Relay Code | Access Level   |
|------------|------------------|---------------------|----------------|
| Artemis    | 22               | 2                   | Access Level 1 |
| Athena     | 21               | 2                   | Access Level 1 |
| Hades      | 20               | 3                   | Access Level 2 |
| Hermes     | 22               | 3                   | Access Level 2 |
| Apollo     | 20               | 4                   | Access Level 3 |
| Ares       | 21               | 4                   | Access Level 3 |
| Persephone | 22               | 5                   | Access Level 4 |
| Zeus       | 21               | 5                   | Access Level 4 |

This document explains how to:

1. Record your information in tables like the ones above.
2. Upgrade the elevator restriction firmware and software.
3. Use the tables to configure the new elevator restriction system.

Follow the instructions below to complete these steps.

## 1.3 Upgrade to Card Access Firmware Version 3.1.x

If you have a card access system, upgrade the firmware on all the card access panels to card access version 3.1.x.

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**Note:** For instructions on upgrading firmware, see LT-995 TX3 Touch Screen Administrators Guide.

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## 1.4 Back up the job

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**Note:** For instructions on backing up the job, see LT-995 TX3 Touch Screen Administrators Guide.

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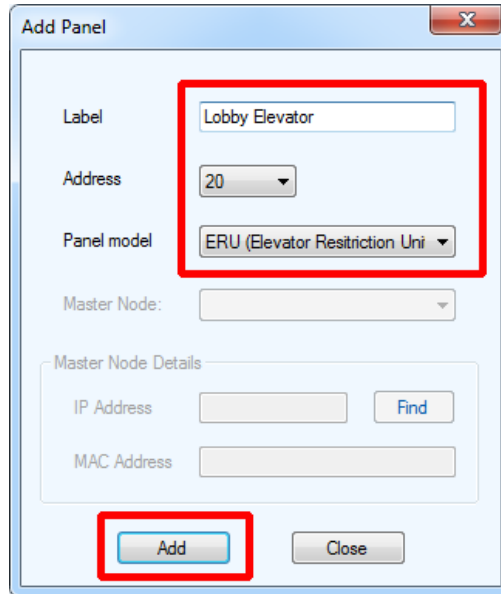
## 1.5 Add Elevator Restriction Units to the Job Tree

If your job does not have elevator restriction units, you must add them.

1. Click **Edit**, then click **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.

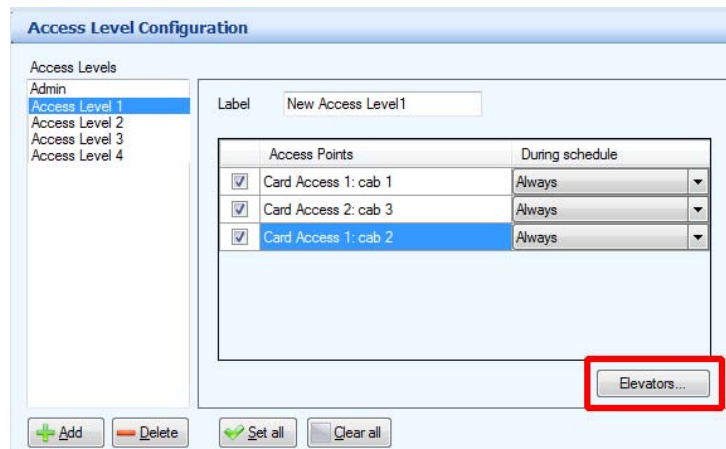
**Panel Mode. ERU (Elevator Restriction Unit)****Figure 5. Add ERU**

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

## 1.6 Record information

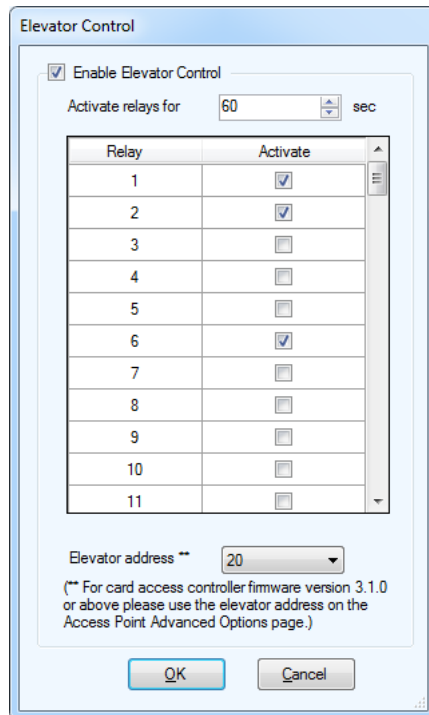
### 1.6.1 Access Levels

1. In the job tree, select `Access Levels`.
2. Select the first access level, and then click `Elevators`.



**Figure 6. Access Level Configuration - Elevators button**

The Elevator Control window appears.



| Relay | Activate                            |
|-------|-------------------------------------|
| 1     | <input checked="" type="checkbox"/> |
| 2     | <input checked="" type="checkbox"/> |
| 3     | <input type="checkbox"/>            |
| 4     | <input type="checkbox"/>            |
| 5     | <input type="checkbox"/>            |
| 6     | <input checked="" type="checkbox"/> |
| 7     | <input type="checkbox"/>            |
| 8     | <input type="checkbox"/>            |
| 9     | <input type="checkbox"/>            |
| 10    | <input type="checkbox"/>            |
| 11    | <input type="checkbox"/>            |

**Figure 7. Elevator Control**

3. Record the name of the access level, the relays, and the `Activate` relays for time in Table 4 on page 20.

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**Note:** Ignore the Elevator address at the bottom of the window.

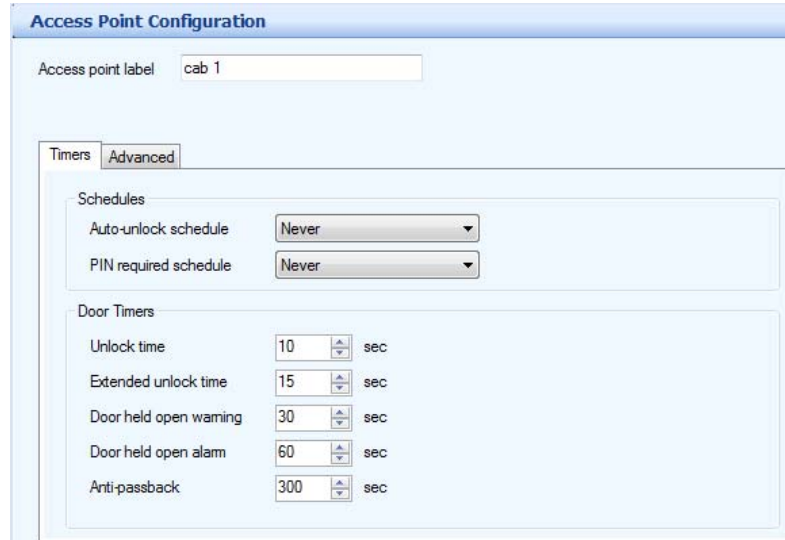
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4. Repeat these steps for each access level.



## 1.6.2 Access Points

1. In the job tree, expand the Access Point list and select an access point that controls an elevator restriction unit.



**Access Point Configuration**

Access point label: cab 1

Timers | **Advanced**

**Schedules**

Auto-unlock schedule: Never

PIN required schedule: Never

**Door Timers**

Unlock time: 10 sec

Extended unlock time: 15 sec

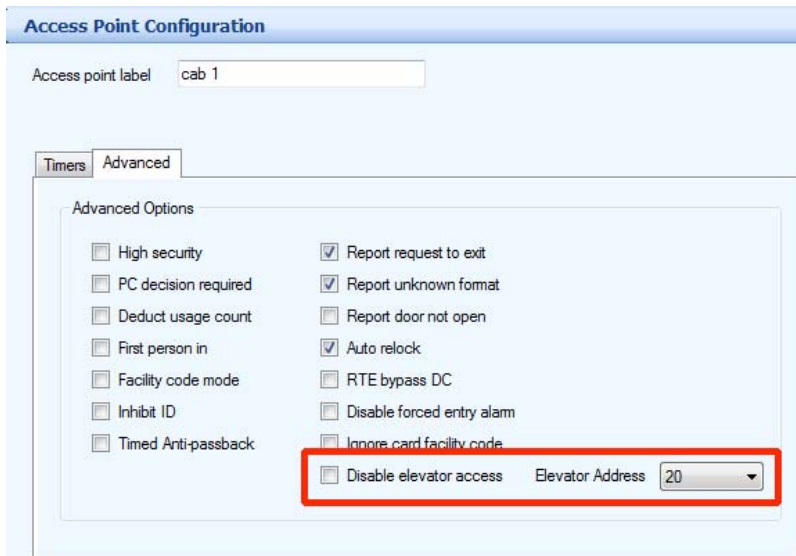
Door held open warning: 30 sec

Door held open alarm: 60 sec

Anti-passback: 300 sec

**Figure 8. Access Point Configuration**

2. Click the Advanced tab.



**Access Point Configuration**

Access point label: cab 1

Timers | **Advanced**

**Advanced Options**

|   |  |
|---|--|
| <input type="checkbox"/> High security                      | <input checked="" 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 type="checkbox"/> Ignore card facility code         |
| <input checked="" type="checkbox"/> Disable elevator access | Elevator Address: 20                                       |

**Figure 9. Access Point Configuration - Elevator Access**

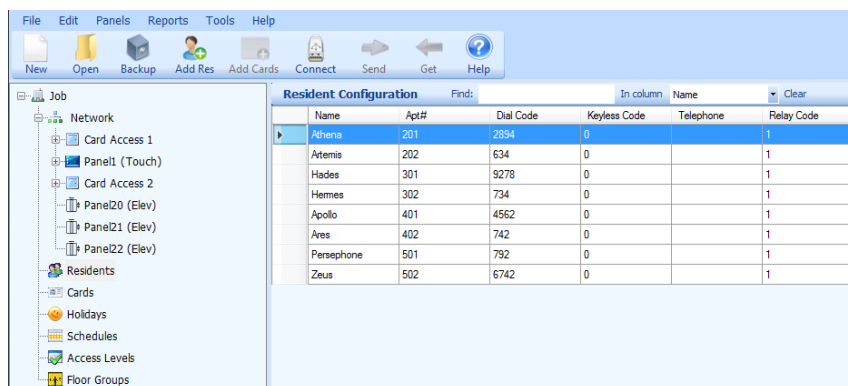
3. Record the name of the access point and the elevator address in the table in Table 5 on page 20.

4. Repeat these steps for each access point.

### 1.6.3 Residents

1. In the job tree, select Residents.

The Resident Configuration window appears (Figure 20).

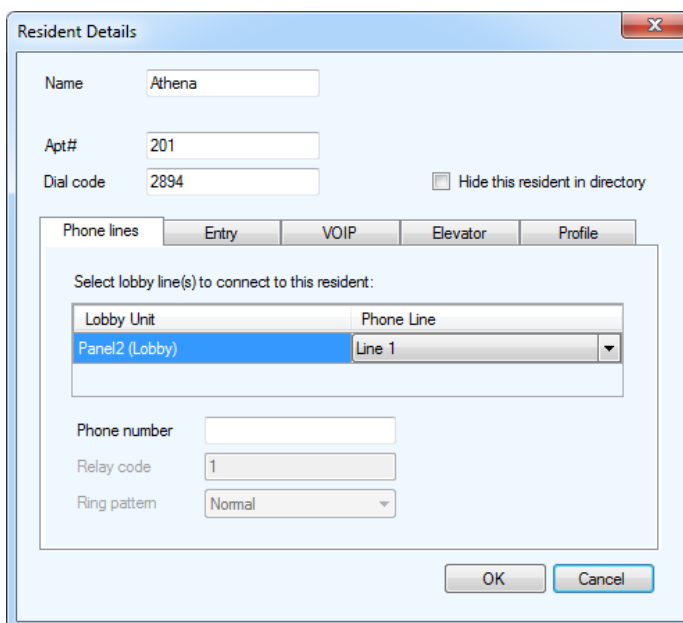


| Name       | Apt# | Dial Code | Keyless Code | Telephone | Relay Code |
|------------|------|-----------|--------------|-----------|------------|
| Athena     | 201  | 2894      | 0            |           | 1          |
| Artemis    | 202  | 634       | 0            |           | 1          |
| Hades      | 301  | 9278      | 0            |           | 1          |
| Hermes     | 302  | 734       | 0            |           | 1          |
| Apollo     | 401  | 4562      | 0            |           | 1          |
| Ares       | 402  | 742       | 0            |           | 1          |
| Persephone | 501  | 792       | 0            |           | 1          |
| Zeus       | 502  | 6742      | 0            |           | 1          |

**Figure 10. Resident Configuration List**

2. Double-click the first resident.

The Resident Details window appears.



**Resident Details**

Name: Athena

Apt#: 201

Dial code: 2894 ☐ Hide this resident in directory

Phone lines: Entry VOIP Elevator Profile

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

| Lobby Unit     | Phone Line |
|----------------|------------|
| Panel2 (Lobby) | Line 1     |

Phone number:

Relay code: 1

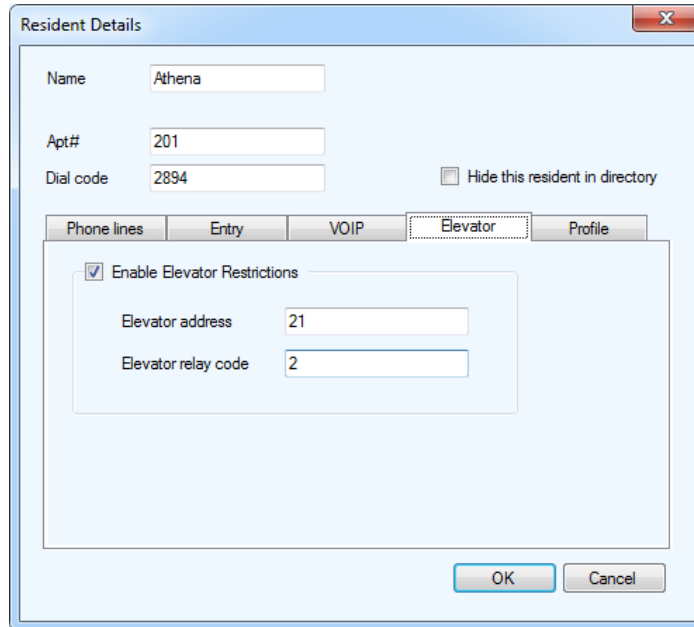
Ring pattern: Normal

OK Cancel

**Figure 11. Resident Details.**

3. Click the Elevator tab.

The Elevator window appears.



The screenshot shows the 'Resident Details' window with the 'Elevator' tab selected. The 'Name' field contains 'Athena', 'Apt#' contains '201', and 'Dial code' contains '2894'. There is a checkbox for 'Hide this resident in directory'. Below the tabs, the 'Enable Elevator Restrictions' checkbox is checked. The 'Elevator address' field contains '21' and the 'Elevator relay code' field contains '2'. 'OK' and 'Cancel' buttons are at the bottom right.

**Figure 12. Resident Details - Elevator Tab**

4. Record the name of the resident, the elevator address, and the elevator relay code in Table 6 on page 21.
5. Repeat these steps for each resident.

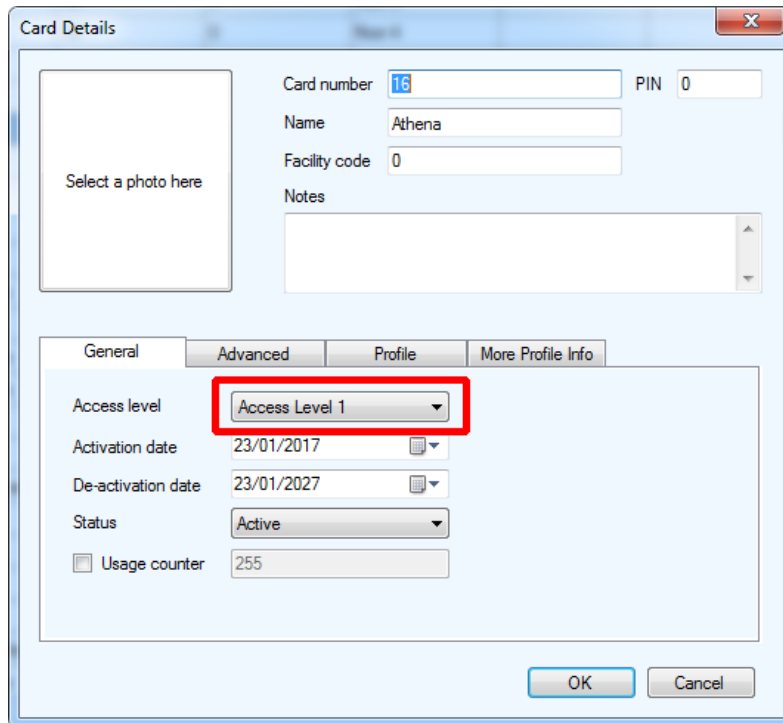
## 1.6.4 Cards

1. Select Cards in the job tree.

| Card Configuration |            |             |               | Find:          | In column | Card |
|--------------------|------------|-------------|---------------|----------------|-----------|------|
|                    | Card Name  | Card Number | Facility Code | Access Level   |           |      |
| ▶                  | Athena     | 16          | 0             | Access Level 1 |           |      |
|                    | Artemis    | 18          | 0             | Access Level 1 |           |      |
|                    | Hades      | 3           | 0             | Access Level 2 |           |      |
|                    | Hermes     | 6           | 0             | Access Level 2 |           |      |
|                    | Ares       | 8           | 1             | Access Level 3 |           |      |
|                    | Apollo     | 100         | 0             | Access Level 3 |           |      |
|                    | Persephone | 2           | 1             | Access Level 4 |           |      |
|                    | Zeus       | 4           | 1             | Access Level 4 |           |      |

**Figure 13. Card Configuration**

2. Double-click the first card.



**Figure 14. Card Details**

3. Record the access level associated with each resident's card in Table 6 on page 21.
4. Repeat these steps for each card.

## 1.7 Upgrade the TX3 Configurator

Upgrade the TX3 Configurator to version 2.8.8 or higher.

## 1.8 Change Residents and Cards to New Elevator Restriction System

### 1.8.1 Create a floor groups

Floor groups are groups of floors that are assigned to access levels.

Create one floor group for each access level in Table 4 on page 20

1. Select Floor Groups from the Job tree.

2. Click Add.

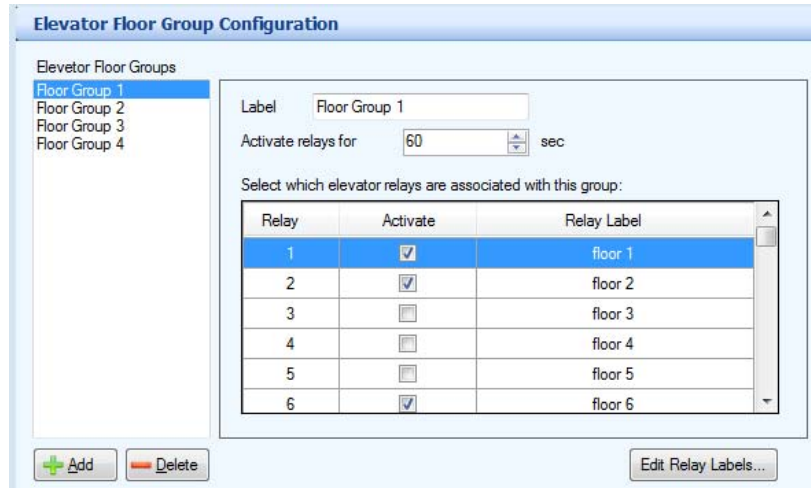
**Floor Group0** appears.

3. Select the floors that you want in this floor group.
4. Provide the following information.

**Label.** Change the name of the floor group so that it matches the access level.

**Activate relays for.** Change this to the time that is in the associated access level.

**Relay.** Select the same relays that are selected in the corresponding access level.



| Relay | Activate                            | Relay Label |
|-------|-------------------------------------|-------------|
| 1     | <input checked="" type="checkbox"/> | floor 1     |
| 2     | <input checked="" type="checkbox"/> | floor 2     |
| 3     | <input type="checkbox"/>            | floor 3     |
| 4     | <input type="checkbox"/>            | floor 4     |
| 5     | <input type="checkbox"/>            | floor 5     |
| 6     | <input checked="" type="checkbox"/> | floor 6     |

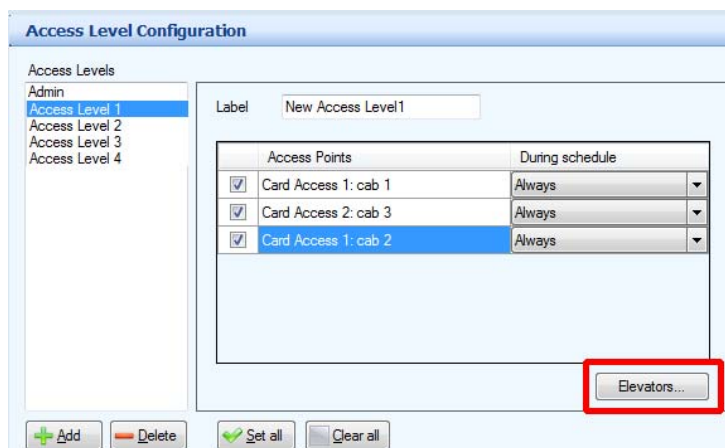
**Figure 15. Floor Groups**

5. In the last two columns of Table 4 on page 20, write the name of the corresponding floor group and its relays as you create it.
6. Click Add to add another floor group. Create one floor group for each access level.

In our example (Table 1 on page 3), **Access Level 1** includes floors 1, 2 and 6, so you must create a corresponding floor group that includes floors 1, 2 and 6.

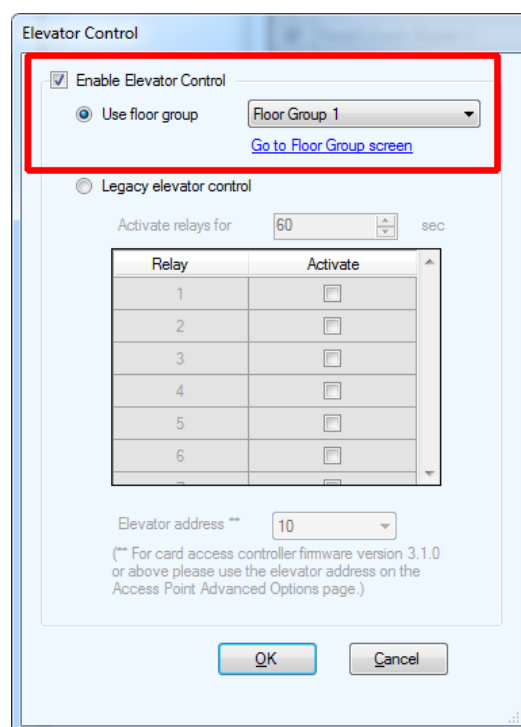
## 1.8.2 Assign floor groups to access levels

1. In the job tree, select Access Levels.
2. Select the first access level, and then click Elevators.



**Figure 16. Access Level Configuration - Elevators button**

The Elevator Control window appears.



**Figure 17. Elevator Control**

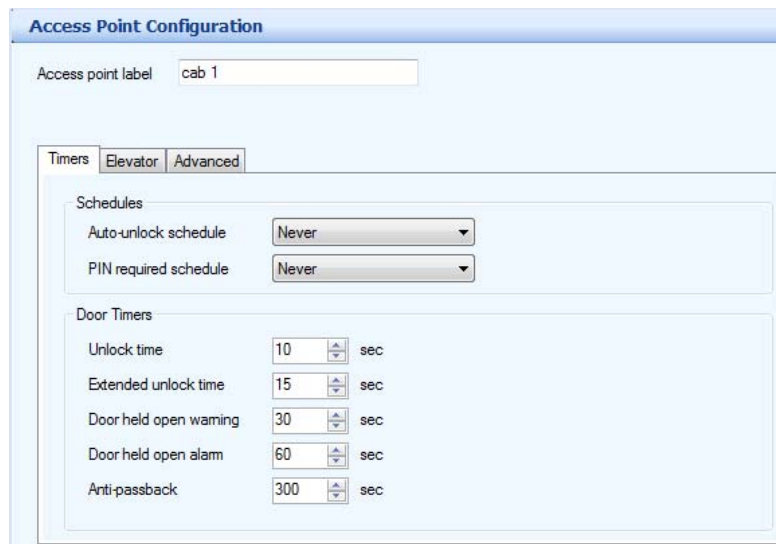
3. Select **Enable Elevator Control**, and select **Use floor group**.
4. Select the floor group associated with this access level. Use the information in Table 4 on page 20.

In our example (Table 1 on page 3), you must assign Floor group 1 to Access Level 1, Floor group 2 to Access Level 2, and so on.

5. Click **OK**.
6. Repeat these steps for all the access levels in the job.

### 1.8.3 Update access points

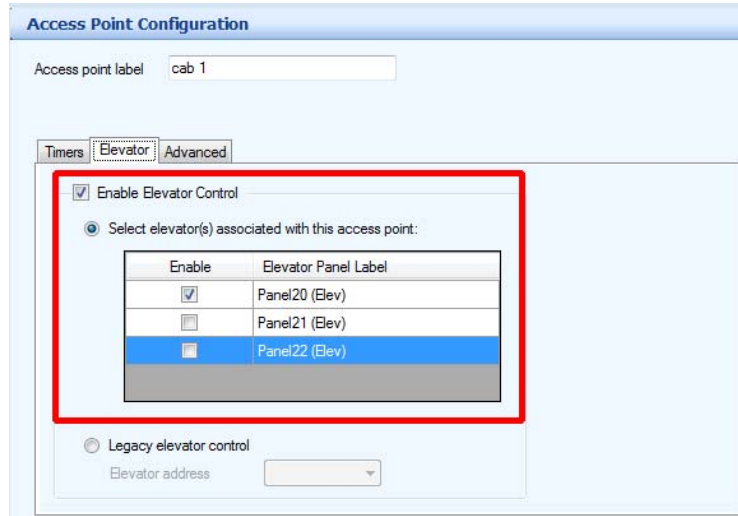
1. In the job tree, expand the **Access Point** list and select an access point that controls an elevator restriction unit.



The image shows the 'Access Point Configuration' dialog box. At the top, there is a tabbed interface with 'Timers', 'Elevator', and 'Advanced' tabs. The 'Timers' tab is currently selected. Below the tabs, there is a section for 'Schedules' with two dropdown menus: 'Auto-unlock schedule' and 'PIN required schedule', both set to 'Never'. Below this is a section for 'Door Timers' with five rows of settings, each with a numeric input field and a unit of 'sec': 'Unlock time' (10), 'Extended unlock time' (15), 'Door held open warning' (30), 'Door held open alarm' (60), and 'Anti-passback' (300).

**Figure 18. Access Point Configuration**

2. Click the Elevator tab.



**Access Point Configuration**

Access point label: cab 1

Timers **Elevator** Advanced

☒ Enable Elevator Control

☒ Select elevator(s) associated with this access point:

| Enable                              | Elevator Panel Label |
|-------------------------------------|----------------------|
| <input checked="" type="checkbox"/> | Panel20 (Elev)       |
| <input type="checkbox"/>            | Panel21 (Elev)       |
| <input checked="" type="checkbox"/> | Panel22 (Elev)       |

☐ Legacy elevator control

Elevator address:

**Figure 19. Access Point Configuration - Elevator Access**

3. Select Enable Elevator Control and Select elevator(s) associated with this access point.
4. Select the Elevator Restriction Units that this access point controls. Use the information in Table 5 on page 20.

In our example, since there is an access point inside each elevator cab (see Table 2 on page 4), you should restrict each access point to the elevator restriction unit that it is inside of.

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**Note:** One access point can now control more than one elevator restriction unit. Usually, the access point should control all the elevator restriction units that are located near that access point.

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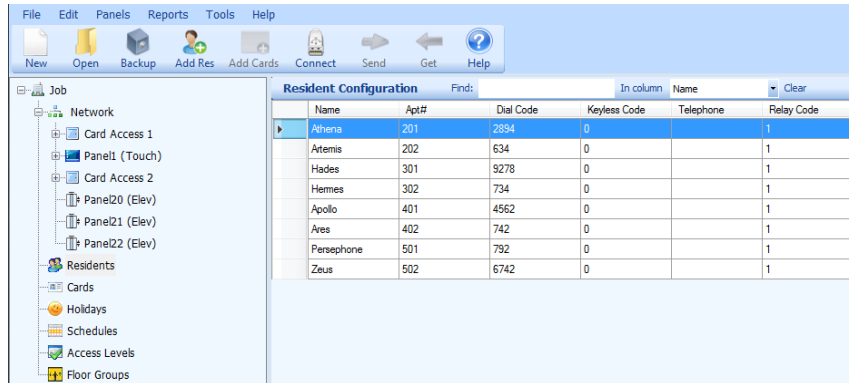
5. Repeat these steps for all the access points in the job.

## 1.8.4 Update residents

1. In the job tree, select Residents.



The Resident Configuration window appears (Figure 20).

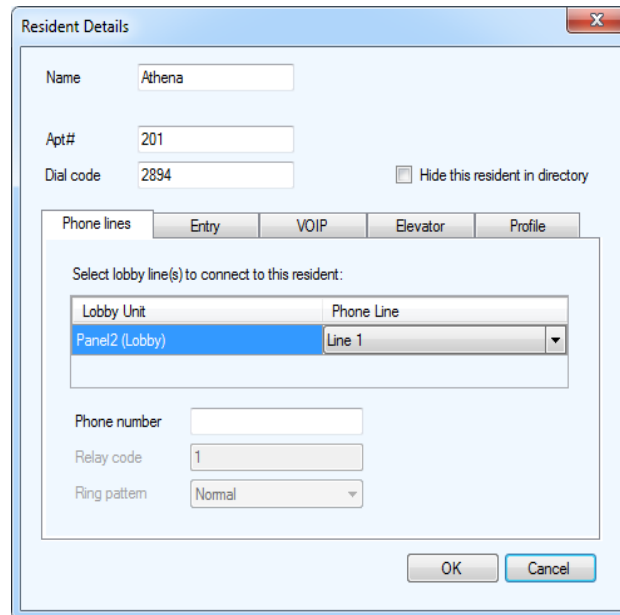


| Name       | Apt# | Dial Code | Keyless Code | Telephone | Relay Code |
|------------|------|-----------|--------------|-----------|------------|
| Athena     | 201  | 2894      | 0            |           | 1          |
| Artemis    | 202  | 634       | 0            |           | 1          |
| Hades      | 301  | 9278      | 0            |           | 1          |
| Hermes     | 302  | 734       | 0            |           | 1          |
| Apollo     | 401  | 4562      | 0            |           | 1          |
| Ares       | 402  | 742       | 0            |           | 1          |
| Persephone | 501  | 792       | 0            |           | 1          |
| Zeus       | 502  | 6742      | 0            |           | 1          |

**Figure 20. Resident Configuration List**

- Double-click the first resident.

The Resident Details window appears.



Resident Details

Name: Athena

Apt#: 201

Dial code: 2894

☐ Hide this resident in directory

Phone lines | Entry | VOIP | Elevator | Profile

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

| Lobby Unit     | Phone Line |
|----------------|------------|
| Panel2 (Lobby) | Line 1     |

Phone number:

Relay code: 1

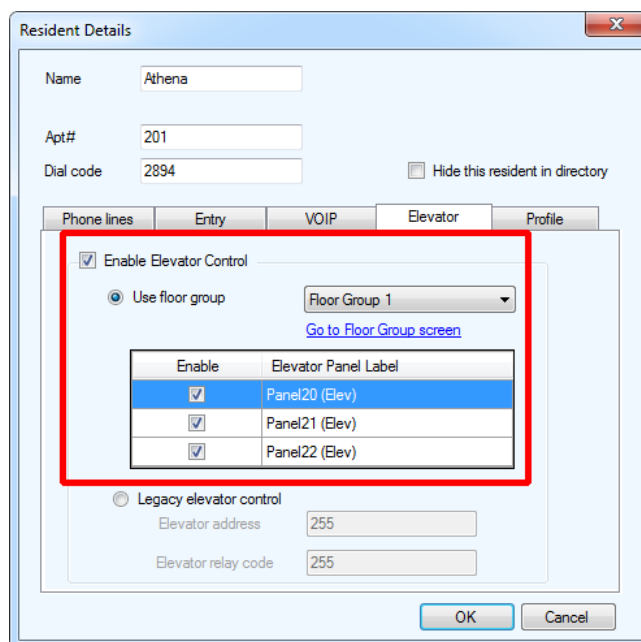
Ring pattern: Normal

OK Cancel

**Figure 21. Resident Details**

- Click the Elevator tab.

The Elevator window appears.



**Figure 22. Resident Details - Elevator Tab**

4. Select Enable Elevator Control.
5. Select Use floor group.
6. Select the floor group for this resident, and select the Elevator Restriction Units that are allowed for this resident. See Table 6 on page 21 for information on what elevator, elevator relay code, and access level the resident had access to, and see Table 4 on page 20 for information on the floor groups.

**Note:** **One resident now has access to more than one elevator restriction unit and more than one floor.**

**Usually, you should give the resident access to the same elevator restriction units and floor group that the corresponding card's access level has access to.**

In our example, Athena is assigned to Access Level 1 (Table 3 on page 4), so she should now be assigned to Floor Group 1 (Table 1 on page 3). Athena used to have access to only one elevator, but now you can give her access to all three.

7. Repeat these steps for all the residents in the job.

## 1.9 Upgrade the firmware

Upgrade the firmware on all the panels to version 3.4.x.

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**Note:** For instructions on upgrading firmware see LT-995 TX3 Touch Screen Administrators Guide.

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## 1.10 Send the job

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**Note:** For instructions on sending the job, see LT-995 TX3 Touch Screen Administrators Guide.

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# 2 Migration Information

**Table 4: Access Levels and Corresponding Floor Groups**

| Access Level | Relays | Activate relays for | Corresponding Floor Group | Relays for Corresponding Floor Group |
|--------------|--------|---------------------|---------------------------|--------------------------------------|
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |
|              |        |                     |                           |                                      |

**Table 5: Access Points**

| Access Point | Elevator Address | Other Information |
|--------------|------------------|-------------------|
|              |                  |                   |
|              |                  |                   |
|              |                  |                   |
|              |                  |                   |
|              |                  |                   |
|              |                  |                   |
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# 3 Contact Us



You can contact us from Monday to Friday 8:00 A.M. to 5:00 P.M. E.S.T.

## 3.1 General Inquiries

**Toll Free:** 1-888-660-4655

**Local:** 905-660-4655

## 3.2 Customer Service

**Toll Free:** 1-888-MIRCOM5

**Local:** 905-695-3535

**Local Fax:** 905-660-4113

**Toll-Free Fax:** 1-888-660-4113

## 3.3 Website

<http://www.mircom.com>

## 3.4 Email

[mail@mircom.com](mailto:mail@mircom.com).

## 3.5 Technical Support

8 A.M. to 5 P.M. (EST) Monday through Friday, excluding holidays

**Toll Free:** 1-888-MIRCOM5

**Local:** 905-695-3535

**Local Phone:** 905-660-4655

**Toll Free Phone:** 1-888-660-4655

**Email:** [techsupport@mircom.com](mailto:techsupport@mircom.com)