



**ALARM LOCK**

345 Bayview Avenue  
Amityville, New York 11701  
For Sales and Repairs 1-800-ALA-LOCK  
For Technical Service 1-800-645-9440  
or visit us at <http://tech.napcosecurity.com/>  
(Note: Technical Service is for security professionals only)  
Publicly traded on NASDAQ Symbol: NSSC

© ALARM LOCK 2014

# DL-WINDOWS™ for Networx™ V5 USER'S GUIDE

OI383 01/14  
(replaces OI352D)

## Downloading Software for the Trilogy® Networx™ Line of Access Control Systems



DL6500  
&  
ETDLN



PL6500 &  
ETPLN



PL6100



PDL6500  
&  
ETPDLN



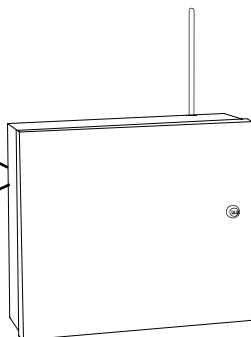
PDL6100



NETPKD



NETDK



NETWORKPANEL



Gateway "Wireless/Wired"  
AL-IM80211



DL6100

# Radio and Television Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003. Changes and Modifications not expressly approved by Napco can void your authority to operate this equipment under Federal Communications Commissions rules.

## CHANGES FROM THE PREVIOUS EDITION

The following changes have been made to this manual OI383 (identical to OI352D) since the previous edition (OI352C):

- Updated to reflect DL-Windows version 5 which includes a new look, improved performance and simplified screens.
- Removed the section regarding Gateway hardware installation (page 11 of OI352C) and placed it into a new manual ("**Networx Gateway Installation and Setup Instructions**", WI2085).

## About this Manual

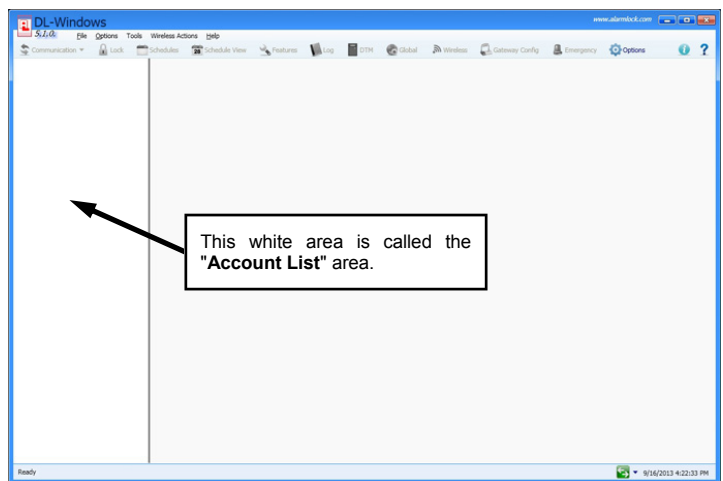
This manual is intended to document the DL-Windows computer screens and features used to program Networx wireless door locks and devices.

The word "**lock**" is a generic word used to indicate one of the many Alarm Lock locking devices available, including devices such as the DK series keypads that trigger other locking devices.

The word "**credential**" is also a generic word used to indicate a PIN number pressed into a lock keypad, or a proximity card or proximity keyfob.

In DL-Windows, the word "**configure**" has a specific meaning—to "configure" is to "assign" discovered physical locks to a Gateway, thus ensuring a fixed wireless communication channel exists between selected physical locks and a selected Gateway.

Throughout this manual, the phrase "**DL-Windows 'Main Screen'**" is often used, and refers to the first screen that opens when the DL-Windows program is launched, shown at right. Also note that when Accounts are added, they are listed in the "**Account List**" area, also shown:



DL-Windows "Main Screen"

**Important:** Trilogy® is a registered trademark of Alarm Lock. ProxCard® and ProxKey® are trademarks of the HID® Corporation. Microsoft® and Windows® are trademarks of their the Microsoft Corporation. All other trademarks, service marks, and product or service names described in this manual are for identification purposes only and may be trademarks or registered trademarks of their respective owners. The absence of a name or logo in this document does not constitute a waiver of any and all intellectual property rights that NAPCO Security Technologies, Inc. has established in any of its product, feature, or service names or logos. Screen images, icons and instructions in this guide may vary depending on the software version installed. The information in this manual is for informational purposes only and is subject to change without notice. Companies, names and data used in examples herein are fictitious unless otherwise noted. Alarm Lock assumes no responsibility for incorrect information this manual may contain.

# Table of Contents

Radio and Television Interference .....	2
Changes From The Previous Edition .....	2
About this Manual .....	2
Ordering Information .....	4
Overview .....	6
Gateway Specifications .....	8
Quick Start .....	9
Security Password .....	10
"Gateway Configuration" Screen - Field and Button Definitions .....	11
Discovering / Adding Gateways .....	12
Color List .....	12
Discovering / Assigning Wireless Locks .....	13
Linking Lock Profiles .....	14
Gateway Configuration > Tools > View Gateway Status .....	15
Gateway Configuration > Tools > View Gateway's Lock Table .....	16
Gateway Configuration > Tools > Delete Lock(s) by Serial Number(s) .....	17
Gateway Configuration > Tools > Configure / Edit Network Settings .....	18
Gateway Configuration > Tools > Ping Gateway .....	20
Gateway Configuration > Tools > Update Gateway Firmware .....	20
Gateway Configuration > Tools > Manually Add a Lock to the Gateway .....	21
Gateway Configuration > Tools > Set Emergency Groups .....	22
Gateway Configuration > Tools > Import Assigned Lock .....	22
Gateway Configuration > Tools > Send Lock Config Table to the Gateway .....	22
Gateway Configuration > Tools > Import Gateway and Assigned Locks .....	23
Gateway Configuration > Tools > Show WAN / Port Information .....	24
Gateway Configuration > Tools > Select Network Adapter .....	24
Gateway Configuration > Tools > Manually Add a Gateway .....	25
Gateway Configuration > Actions > Add Gateway to Account .....	26
Gateway Configuration > Actions > Remove Gateway from Account .....	26
Gateway Configuration > Actions > Locate All Locks on Gateway .....	27
Gateway Configuration > Actions > Discover Locks .....	27
Gateway Configuration > Actions > Discover New Gateways .....	27
Gateway Configuration > Actions > Relocate Gateways (Displayed in red) .....	28
Gateway Configuration > Actions > Replace Gateway with New One .....	29
Gateway Configuration > Actions > Gateway Signal Test Mode .....	30
Communicating with Wireless Locks .....	31
"Wireless" Screen - Field and Button Definitions .....	34
"Wireless Schedule" Screen - Field and Button Definitions .....	35
Wireless Actions Menu .....	36
"Emergency Commands" Screen - Field and Button Definitions .....	37
Using Emergency Commands .....	38
Emergency > Emergency Lock Down .....	40
Emergency > Emergency Passage .....	41
Emergency > Emergency Return to Normal .....	42
Emergency Commands > Set Emergency Groups .....	43
Networx Lock Right-Click Profile Menu .....	45
Right-Click Menu > View Status of Lock .....	46
Right-Click Menu > Link / Unlink Lock Profile .....	47
Right-Click Menu > Locate Lock .....	48
Right-Click Menu > Update Date / Time in Lock .....	48
Right-Click Menu > Take Lock Out of Passage .....	48
Right-Click Menu > Put Lock Into Passage .....	49
Right-Click Menu > Update Lock Firmware .....	49
Troubleshooting .....	50
Glossary .....	52
Alarm Lock Limited Warranty .....	56

# Ordering Information

Several Gateway device models are available; all have the two antennas used to transmit to the locks via an Alarm Lock proprietary radio connection.

- **Gateway "Wireless/Wired" AL-IM80211** - Hardwired/Wireless Gateway Interface Module. Supplied with its own Class 2 transformer to supply power; connection to a network is supported via either a *wired* connection (using a standard RJ-45 Ethernet cable) or a *wireless* connection (using a third antenna for 802.11 transmissions). Ensure adequate 802.11 coverage in the area where the "Wireless/Wired" Gateway is mounted. Supports up to 63 Networx Locks. Ceiling- or wall-mountable.
- **Gateway "Wired" AL-IME** - Hardwired Gateway Interface Module, supports up to 63 Networx Locks, connects directly to a network using a standard RJ-45 Ethernet cable. Ceiling- or wall-mountable; powered with Class 2, 6VAC transformer (supplied).
- **Gateway "Power over Ethernet" AL-IMEPOE** - Hardwired Gateway Interface Module + POE (Power Over Ethernet), supports up to 63 Networx Locks, connects directly to a network using a standard RJ-45 Ethernet cable and POE. Ceiling- or wall-mountable.
- **Gateway "Plenum Rated POE" AL-IMEPOEP** - Same as above "AL-IMEPOE", with added enclosure protections and installation hardware for mounting above "drop-ceiling" tiles or other locations subject to air pressure changes (HVAC air-filled spaces, etc.).
- **PDL6100** - Cylindrical Trilogy® Networx™ Wireless Access Control Lock with built in HID Proximity ID Card Reader, full-metal digital keypad, integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **DL6100** - Cylindrical Trilogy® Networx™ PIN-Code Wireless Access Control Lock, as above, with metal digital keypad only. Standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **PDL6200** - Cylindrical Trilogy® Networx™ Wireless Access Control Lock with added Door Monitoring features, including logged entry and exit, "Door Ajar" (valid credential entered and door opened but not closed within the programmed time), and "Forced Entry" (door opened without a valid credential entered or without inside lever turned). Includes built in HID Proximity ID Card Reader, full-metal digital keypad, integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **PDL6500** - Mortise Trilogy® Networx™ Wireless Access Control Lock with built in HID Proximity ID Card Reader, full-metal digital keypad, integral bi-directional radio, supplied batteries and serial number ID card. Standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **DL6500** - Mortise Trilogy® Networx™ Wireless Access Control Lock with built in HID Proximity ID Card Reader, full-metal digital keypad, integral bi-directional radio, supplied batteries and serial number ID card. Standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **PDL6600** - Mortise Trilogy® Networx™ Wireless Access Control Lock with added Door Monitoring features (see PDL6200 for details). Includes built in HID Proximity ID Card Reader, full-metal digital keypad, integral bi-directional radio, supplied batteries and serial number ID card. Standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **PDL7100** - Cylindrical Trilogy® Networx™ Wireless Access Control Lock with built in Proximity **iclass** Smart Card Reader, full-metal digital keypad, integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **PL6100** - Cylindrical Trilogy® Networx™ Wireless Access Control Lock with built in HID Proximity ID Card Reader (keypad removed for added security), integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **PL6200** - Cylindrical Trilogy® Networx™ Wireless Access Control Lock with added Door Monitoring features (see PDL6200 for details). Includes built in HID Proximity ID Card Reader (keypad removed for added security), integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **PL6500** - Mortise Trilogy® Networx™ Wireless Access Control Lock with built in HID Proximity ID Card Reader (keypad removed for added security), integral bi-directional radio, supplied batteries and serial number ID card. Standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).
- **PL6600** - Mortise Trilogy® Networx™ Wireless Access Control Lock with added Door Monitoring features (see PDL6200 for details). Includes built in HID Proximity ID Card Reader (keypad removed for added security), integral bi-directional radio, supplied batteries and serial number ID card. Standard format SC1 keyway for manual key override, 4 $\frac{7}{8}$ " ASA Strike (included).

# Ordering Information (cont'd)

- **ETPDLN, ETDLN & ETPLN** - Exit Trim Trilogy Networx™ Wireless Access Control Locks for most major manufacturers exit devices. **ETPDLN and ETPLN include** built in HID Proximity ID Card Reader (**ETPLN** for proximity-only). **ETPDLN and ETDLN include** full-metal digital keypad. All include integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SC1 keyway for manual key override.
- **NETDK, NETPDK & NETWORXPANEL** - The NETDK and NETPDK (with proximity card reader) are secured single-door or double-door digital keypads for use within the wireless Networx™ system. One or two keypads can be wired to the dedicated NETWORXPANEL control panel to provide controlled access to a door by releasing a locking device (such as a magnetic lock or electric door strike) when a proper User Code (and/or a proximity credential to the NETPDK) is presented. The NETWORXPANEL inputs support two of any combination of NETDK or NETPDK keypads, PLUS up to two Wiegand devices. See WI1881, WI1855 and WI1856 for additional information.
- **ETPDLNRX & ETPLNRX** - Exit Trim Trilogy Networx™ Wireless standalone access control locks for most major manufacturers exit devices with added Door Monitoring features (see PDL6200 for details). The **ETPDLNRX** includes both a 12-button metal keypad and a built in HID Proximity ID Card Reader (**ETPLNRX** for proximity-only). All include integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SC1 keyway for manual key override.
- **DL-WINDOWS** - Alarm Lock Trilogy Microsoft Windows-based software application, v4.0.0 or higher, supports Trilogy Networx and Trilogy Standalone Locks, with single database. *Free of charge* and downloadable online at [www.alarmlock.com](http://www.alarmlock.com).
- **OI382** - DL-Windows User's Guide (non-Networx), replaces OI237K.
- **OI383** - DL-Windows for Networx User's Guide (this manual), replaces OI352D.
- **WI2085** - Networx Gateway Installation & Setup Instructions
- **OI362** - Networx Quick Start Guide.
- **WI1790** - PDL6100 Keypad Programming Instructions.
- **WI1820** - DL6100 Keypad Programming Instructions.
- **WI1835** - PDL6500 & ETPDLN Keypad Programming Instructions.
- **WI1836** - DL6500 & ETDLN Keypad Programming Instructions.
- **WI1843** - PL6100 Programming Instructions.
- **WI1844** - PL6500 & ETPLN Programming Instructions.
- **WI1674** - PDL6100 and DL6100 Installation Instructions.
- **WI1676** - PDL6100 and DL6100 Door Installation Template.
- **WI1881** - NETDK & NETPDK Installation Instructions
- **WI1855** - NETWORXPANEL Programming Instructions with the NETDK & NETPDK keypads
- **WI1856** - NETWORXPANEL Installation Instructions
- **WI2024** - PDL6200 & DL6200 Installation Instructions
- **WI2027** - PDL6600 & ETPDLNRX Programming Instructions
- **WI2036** - PDL6600 & DL6600 Template
- **WI2059** - PL6600 & ETPLNRX Programming Instructions

See [www.alarmlock.com](http://www.alarmlock.com) for a complete list of all available standard Trilogy and Networx™ series devices and manuals (downloadable in PDF format).

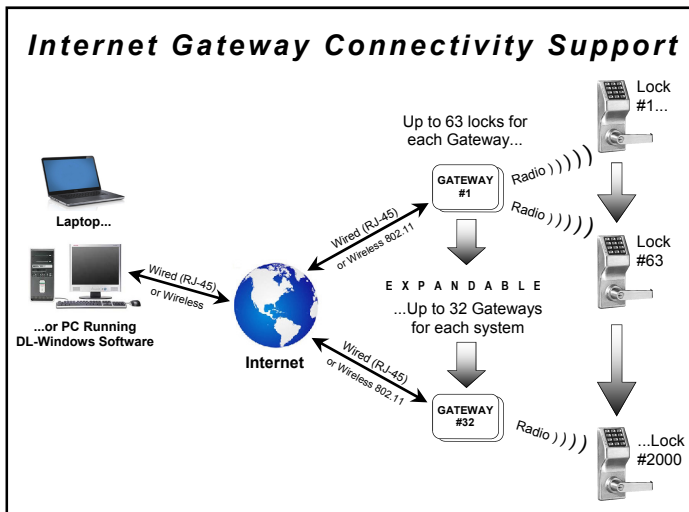
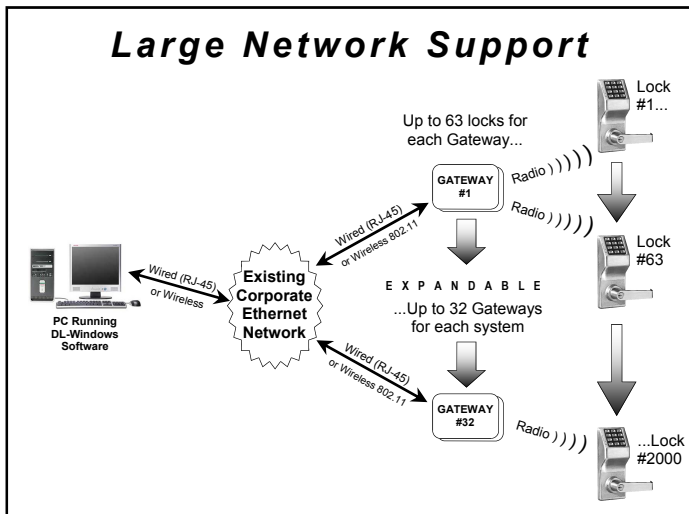
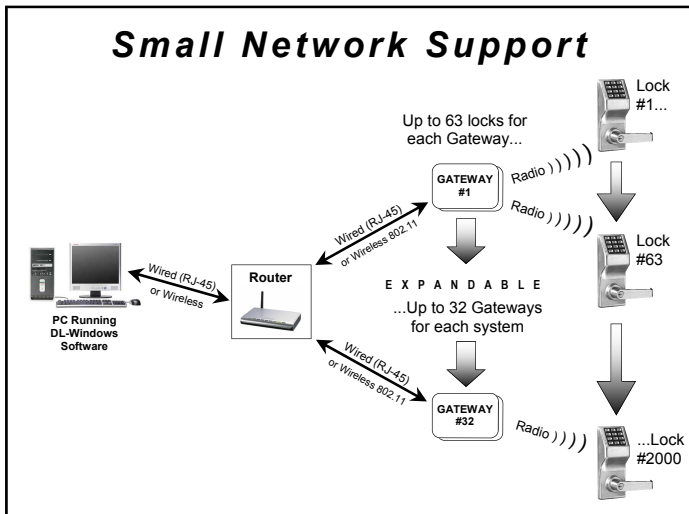
# Overview

Used with the Trilogy Network™ series door locks and keypads, DL-Windows (version 4.0.0 software or later) allows you to upload and download programming features **wirelessly** using a computer network. With "wireless" communication, the various cables and/or an AL-DTM Data Transfer Module are NOT required to

transfer data between DL-Windows and the wireless locks. Simply use your computer to retrieve logs, download User Codes and program features into each wireless lock in the system.

DL-Windows software is installed on a computer that is connected to a network (either a small Ethernet network, a large corporate LAN, or over the Internet). Connected to this network is an intermediate device called a *Gateway* that communicates via a private wireless signal to a radio located inside each door lock. In this way, the software allows full programming and control of each lock in the system. **Note:** In this manual, the word "lock" refers to all Network™ series door locks and the NETWORK-PANEL wireless control panel and its wireless keypads.

To ensure each physical lock is identified correctly by DL-Windows, the factory assigns each lock a unique serial number; after locks are installed on the doors and the Gateways are mounted, the Gateways search for new locks, allowing them to be enrolled into the system.



## FLEXIBLE SETUP

In addition to wireless communication, **these wireless door locks can also be programmed at the keypad** (see the keypad programming instructions included with the lock). This means that locks can be installed on the doors and *immediately be put into use via keypad programming*--even before a wireless network is set up. Therefore, you can install the locks on the doors before configuring the wireless network, or you can set up the wireless network first and add locks later. If you wish, you can even start by designing a "virtual" system within DL-Windows (creating new Accounts, adding Users and configuring lock features, etc.), then set up the network and install the lock hardware later. But in the end, after your lock hardware is physically installed and the network is up and running, you can run DL-Windows to "Link" the "virtual" system saved on your computer with the "real" lock hardware on the doors.

**Note:** Keypad programming of User Codes, Features, Time Zones, and Schedules is available as a **temporary** convenience to allow the lock to be put into use before installing and configuring a wireless network. Therefore, all lock programming added via the keypad **cannot** be retrieved into DL-Windows. If you decide to start programming your wireless lock via the keypad, we recommend you keep hardcopy records (in a secure location) of all Users, their User Codes, and any proximity cards that may have been programmed. Keeping complete and accurate records saves time because after the wireless network is set up, any programming added via the keypad must be re-added to DL-Windows and downloaded back to the lock(s).

## CAPACITY

Each installed system can contain from 1 to 32 Gateways--and each Gateway can control up to 63 locks--for a maximum of 2000 locks allowed per Account; and the DL-Windows software can support, in theory, an unlim-

# Overview (cont'd)

ited number of Accounts. In addition, each Networx™ lock can contain up to 5000 Users!

## MINIMUM WIRELESS SYSTEM

As shown in the "overview" drawings above, you do not need a massively complex corporate network to run a working system. In fact, a minimum wireless system may consist of a laptop or desktop **computer** (to run DL-Windows), a **router** (to allow connection to a computer network), and an Alarm Lock **Gateway** module (the intermediary between the network and the locks).

## NETWORK SECURITY

The system uses AES (Advanced Encryption Standard) to protect the integrity of the data flow between the wireless router / network and the Gateways.

## IMPORTANT - Please Read This



***DL-Windows software is the basis for wireless lock programming.*** For those unfamiliar with using DL-Windows software or if DL-Windows is not yet installed, **stop here** and review the DL-Windows User Guide (OI382). It may be helpful to create a "test" Account in DL-Windows, where you can add Lock Profiles and become familiar with the DL-Windows program while working through the examples presented in this manual and in OI382.

If you are already familiar with DL-Windows, the transition to working with wireless locks will be straightforward with slight changes in terminology. If you want to get started right away to see the system work, see the **Quick Start** section on page 9. This manual can be read from beginning to end, or can be used with the Table of Contents as a reference manual.

- **To install locks on the doors first**, use the Installation Instructions for the lock model you wish to install, then use the keypad Programming Instructions to put the locks into use.
- **To install and set up Gateways** and configure your network settings, see the **Networx Gateway Installation & Setup Instructions** (WI2085).

## DL-WINDOWS SYSTEM REQUIREMENTS

See OI382 for a complete list of the minimum requirements, plus things to consider when upgrading from previous versions, and the step-by-step procedures for installing DL-Windows version 5.

# Gateway Specifications

For all Gateway modules, network activity (or bandwidth usage) does NOT occur until you operate DL-Windows software to send programming to (or receive log data from) physical locks. **Exception:** During the Emergency Lockdown Command, Gateways communicate through the network. Gateways will send less than 1000 bytes during these Emergency Commands (for more information regarding Emergency Commands, see page 38).

## Model AL-IM80211

("Wireless/Wired" Gateway)

### Wireless Specifications

Wireless Standards: IEEE 802.11b; 802.11g  
Frequency Range: 2.412 – 2.484 GHz  
Output Power: 14dBm +1.5 dBm/-1.0 dBm  
Maximum Receive Level: -10dBm (with PER < 8%)  
Data Rates with Automatic Fallback: 54Mbps – 1Mbps  
Modulation Techniques: OFDM, DSSS, CCK, DQPSK, DBPSK, 64 QAM, 16 QAM

### Network Interface

Interface: Ethernet 10Base-T or 100Base-TX (using RJ-45 jack)  
Protocols: TCP/IP, UDP/IP, DHCP

### Security

128-bit AES encryption

### Power Consumption

Average Power Consumption:  
• 1300mW (WLAN mode; maximum data rate)  
• 300mW (WLAN mode; idle)  
• 750mW (Ethernet mode)  
Input Voltage: 5 - 6 Volts AC/DC  
Peak Supply Current: 650mA

### Environmental

Operating Temp: -20° to 60°C (-4° to 140°F)  
Storage Range: -40° to 85°C (-40° to 185°F)

## Model AL-IME

("Wired" Gateway)

### Network Interface

Interface: Ethernet 10Base-T or 100Base-TX (using RJ-45 jack)  
Protocols: TCP/IP, UDP/IP, DHCP

### Security

128-bit AES encryption

### AL Radio Link

900MHz  
50 Channels  
10mW power output

### Input Power

Voltage: 5 - 6 Volts AC/DC  
Peak Supply Current: 500mA

### Environmental

Operating Temp: -20° to 60°C (-4° to 140°F)  
Storage Range: -40° to 85°C (-40° to 185°F)

## Model AL-IMEPOE

("Power Over Ethernet" Gateway)

## Model AL-IMEPOEP

("Plenum Rated POE" Gateway)

### Network Interface

Interface: Ethernet 10Base-T or 100Base-TX (using RJ-45 jack)  
Protocols: TCP/IP, UDP/IP, DHCP

### Security

128-bit AES encryption

### AL Radio Link

900MHz  
50 Channels  
10mW power output

### Input Power

POE Voltage: 48 Volts DC nominal  
Class 2

### Environmental

Operating Temp: -20° to 60°C (-4° to 140°F)  
Storage Range: -40° to 85°C (-40° to 185°F)

### Compliance

802.3af POE Standard (AL-IMEPOEP only)  
UL 2043: *UL Standard for Safety Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces*



# Quick Start

1. **Install the DL-Windows software** (see OI382).
2. **Setup your Network connection and install your Gateway** (see WI2085). **Note:** Complete the blue **Gateway ID Card** specifying its physical location. Horizontal "flat" mounting of the Gateway enclosure should be avoided.
3. **Connect the Gateway to the Network, then power up the Gateway** (see WI2085).
4. **Start DL-Windows and add a new Account** (see OI382).
5. **Create Lock Profiles for each physical wireless lock** (see OI382). Lock Profiles will be required for Linking to physical locks after discovery. **Note:** See **Ordering Information** on page 4 for supported lock models.
6. **Add Users, create Schedules and set Features for each lock** (see OI382). **Note:** This step may be performed after the Linking process described in step 12 below.
7. **Set Security Password** (see OI382). You cannot perform the next step without the Security Password being set.
8. Click the **Gateway Config** button (see page 11).
9. Click the **Discover Gateways And Auto Add** button (see page 11).
10. In the **Gateway Configuration** screen, click to highlight and select the desired Gateway, set the **Number of Locks to Discover**, then click the **Discover Locks** button (page 13).
11. Select discovered lock(s) by serial number and click **Assign** (page 13).
12. **Link lock(s) to Lock Profile(s)** (page 14). In the **Link / Unlink Lock Profiles** screen:
  - a. In the **Available Lock Profiles** field: Click to highlight a **Lock Profile**.
  - b. In the **Available Lock(s) By Serial Number** field: Click to select the desired physical lock (by serial number) to be Linked to the Lock Profile.
13. **"Download" Lock Profile to lock(s)** (see OI382).

**Congratulations!** Locks can now communicate wirelessly. Use the **Communication** button in the **Lock** screen (see OI382), or communicate with multiple locks using the **Wireless** screen (page 34).

# Security Password

## Overview

Before Gateways and locks can be discovered and configured, a Security Password must be set for the Account. The Security Password creates a secure connection between DL-Windows, your Gateways and the physical locks. Once set, the Security Password is embedded within the radio transmissions, also preventing separate Accounts from overlapping their wireless signals.

**IMPORTANT:** *The Security Password cannot be changed and cannot be retrieved.* If you wish to change or remove the Security Password, the Account may be *cloned* to remove the Security Password in the new

Account (see OI382 for more information about "cloning" Accounts). To change or remove the Security Password in the locks and/or the Gateways, each lock (or Gateway) must be manually defaulted and re-downloaded with the new (or blank) Security Password.

To set the Security Password, click **Tools > Set Security Password**.

In the screen that appears (shown below), type a unique 6 character (no more, no less) password in the **New Password** field. Retype the password in the **Confirm** field and click **OK** to set the Security Password, or click **Cancel** to exit without saving changes.



# "Gateway Configuration" Screen - Field and Button Definitions

The **Gateway Configuration** screen allows you to seek out new Gateway devices and add them to an Account. In addition, the internal Gateway settings are configured from this screen, as well as other Gateway tools and actions. Equally important, it is in this screen where locks are discovered and assigned to your Gateways.

Click the **Gateway Config** button to access the **Gateway Configuration** screen.



**Tools**  
Click to display the **Tools** menu selections

**Actions**  
Click to display the **Actions** menu selections

**Description**  
Default name is "New Gateway". Double-click to manually edit the Gateway Description.

**IP Address**  
Specifies the IP address currently assigned to the Gateway from the network. This column is color coded; see "Color List" on the next page.

**Ch No.**  
Displays the internal channel number assigned to the Gateway.

**MAC Address**  
A unique serial number assigned to the Gateway that identifies that Gateway from all others. Inside the Gateway housing, the MAC address is located on a square sticker (look under the bar code) and has 12 digits, grouped in 6 pairs separated by dashes.

**Firmware**  
Indicates the current firmware version the Gateway is running.

**Assigned Locks**  
Indicates the total number of locks assigned to the selected Gateway.

**Status**  
Displays the current state or the last-known condition of the Gateway.

**Discover Locks**  
Click to start the lock discovery process. The signal will be transmitted based upon the number of locks selected in "Number of Locks to Discover". **Note:** Only those locks within range that have not already been assigned to a Gateway will respond.

**Number of Locks to Discover**  
Click to set the number of locks you wish to discover (1 - 63).

**Discover Gateways And Auto Add**  
This button combines two actions: The "Discover New Gateway(s)" process and the "Add Gateway To Account" process, in one button. The Gateways that are found on the network (but not already configured) are automatically added to the current Account and listed below.

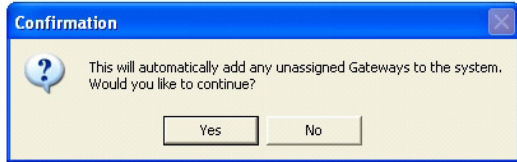
**Close**  
Click to save changes and exit.

Description	IP Address	Ch No	MAC Address	Firmware	Assigned Locks	Status
1st Floor	172.16.201.46	5	00204A9F2764	3.86	3	Ready
2nd Floor	172.16.200.77	10	00204AB307DF	3.86	3	Ready

# Discovering / Adding Gateways

Once connected to the network, Gateways must be discovered and added to the Account. This can be accomplished in one of 3 ways:

- In the **Gateway Configuration** screen, click the **Discover Gateways And Auto Add** button. This one-click option discovers and adds **ALL "Available"** (see **Color List** below) Gateways to the selected Account.



- In the **Gateway Configuration** screen **Actions** menu, click **Discover New Gateway(s)**. This action will find **ALL "Available"** Gateways and list them on the screen. **Note:** The IP addresses of "Available" Gateway(s) will be highlighted green (see color list below). The next step is to click to select a Gateway you wish to add, then click **Actions > Add Gateway to Account**. Click **Yes** in the confirmation popup and when added, the IP address of the Gateway will be highlighted in blue. This two-step option allows you to first discover Gateways, then selectively decide which Gateways to add.
- In the **Gateway Configuration** screen, click **Tools > Manually Add a Gateway**. This option opens the **Manual Gateway Addition** screen, where the MAC Address of the Gateway is manually typed and saved to the database. A connection will then be attempted to the Gateway over the network, and if successful, the Gateway will be added to the system. When Gateways cannot be added to the system, it will be colored red. See **Color List** below.

**TIP** For a Gateway to be considered "Available", it must be on the network, have a dynamically obtained IP address, and manually reset (see WI2085 for reset GW procedure). A Gateway may also be considered "Available" if it already contains the same Security Password as the Security Password set for the Account. See section **Tools> Import Gateway and Assign Lock(s)** for more information.

## Things to Remember

1. **IMPORTANT:** Gateways must be on the same Subnet as DL-Windows to allow for successful discovery. Once Gateways are added to the system, its static IP address, Wireless settings, etc., may then be configured. See **Tools > Configure/Edit Network Settings** for more information.

Gateway Configuration [Hunterdon Hospital]							
Tools		Actions		Discover Gateways And Auto Add		Number of Locks to Discover 1 Discover Locks	
Description	IP Address	Ch No	MAC Address	Firmware	Assigned Locks	Status	
1st Floor	172.16.201.46	5	00204A9F2764	3.86	0	Ready	
2nd Floor	172.16.200.77	10	00204AB307DF	3.86	0	Unreachable	
New Gateway	172.16.201.50	0	00204ACE5B0D	3.86	0	Available	

2. All added Gateways are put into **Gateway Emergency "GROUP A"** by default. For more information, see **Automatic Gateway Grouping** on page 38.
3. Since Gateways are discovered and added using DHCP (Dynamic Host Configuration Protocol), and are therefore not yet static, a reminder "red siren" symbol will be displayed in the DL-Windows "Main Screen" status bar upon Gateway addition. The "red siren" symbol is a reminder that keypad-initiated Emergency commands may not function correctly if the Gateway has not been configured with a *static* IP address. See 38 for important information.

## Color List

The **IP Address** column is color coded, as follows:

- **Blue: Gateway Status = Ready.**  
Indicates the Gateway has been discovered on the network successfully, and added to an existing Account within DL-Windows. **Note:** This Gateway may or may not have physical locks assigned (may or may not have a Lock Table assigned).
- **Green: Gateway Status = Available.**  
Indicates a Gateway has been successfully discovered on the network, but has not been added to the Account within DL-Windows.
- **Red: Gateway Status = Unreachable.**  
Indicates a Gateway that has been previously discovered and added to an Account, but is currently not reachable on the network. **Note:** Gateway can be re-located by clicking **Actions > Relocate Gateways Displayed in Red**. This red color can signify a security mismatch, detailed below.

**OR**

- **Red: Gateway Status = Security Mismatch.**  
Indicates the Gateway Security Password and the Security Password set for the Account are not the same, therefore a successful connection cannot be established. **Note:** Gateway may require latest configuration data. See page 22 ("**Tools > Send Lock Config Table to the Gateway**") and the **TIP** on page 28 (the page for "**Gateway Configuration > Actions > Relocate Gateways (Displayed in red)**") for more information.

# Discovering / Assigning Wireless Locks

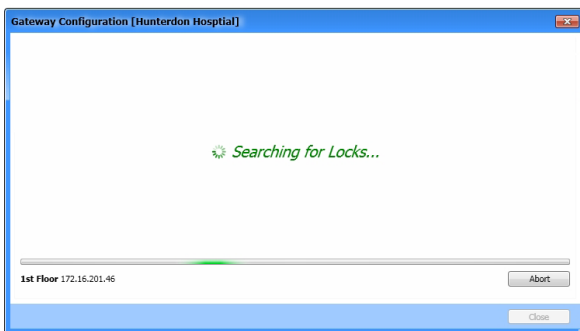
After Gateways have been discovered and added to the Account, physical locks may now be discovered and assigned to the Gateways. More commonly, this is accomplished in two steps: First discovering the locks, then assigning them to the Gateway(s).

**Note:** After lock discovery and lock assignment to a Gateway, locks are then "Linked" to Lock Profiles. Therefore, before proceeding, we recommend that you create Lock Profiles for each physical lock you wish to assign to a Gateway.

## DISCOVERING LOCKS

The lock "discovery" process (search) can be performed in one of two ways:

- In the **Gateway Configuration** screen, click to select the desired Gateway to which the installed lock will be assigned. Then in the **Number of Locks to Discover** pull-down, select the number of physical locks you wish to attempt to discover, then click **Discover Locks**.  
**Note:** The selected Gateway will transmit the discovery request radio signal to the locks in the vicinity. Only those locks within range that have not already been assigned to a Gateway will respond. By selecting the number of physical locks to be discovered, the discovery process will stop the instant the selected number of locks are found. If the number of locks selected exceeds the number of unassigned locks that exist in the vicinity, the discovery process will continue for a maximum of *one minute*. The discovery process may also be stopped at any time by clicking the **Abort** button (this will also return the list of locks found up until the time the **Abort** button was clicked).
- This second procedure is identical to the above procedure, except the lock discovery process is started using **Actions > Discover Locks**.

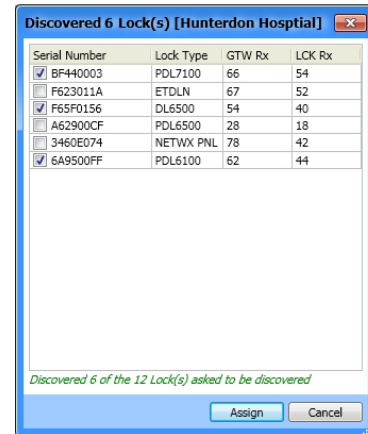


**TIP** For a lock to be considered "unassigned" to a Gateway, it must be manually reset ("defaulted"). See the programming instructions that came with the lock for the reset procedure.

## ASSIGNING LOCKS


After locks are discovered, the following **Discovered Locks** popup automatically appears listing the successfully

discovered locks for the selected Gateway:

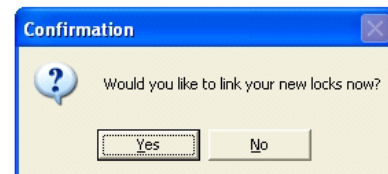


The discovered locks displayed in the screen above are those physical locks that were able to be discovered based on their range to the selected Gateway. (For more information about signal levels, see page 46 for definitions of GTW Rx and LCK Rx).

Click to add a check to the checkbox next to the serial number for each lock you wish to assign to the selected Gateway, then click **Assign**. The following message appears as locks are assigned:

 Assigning locks.. Please wait...

After locks are assigned to the selected Gateway, the following popup appears to begin the required procedure of "Linking" the assigned locks to Lock Profiles. See the next section for procedures.



**TIP** If a lock(s) fails to be assigned to the Gateway, reattempt the lock assignment by clicking **Tools > Send Lock Config Table to the Gateway**.

## MANUAL LOCK ASSIGNMENT

In the **Gateway Configuration** screen, click **Tools > Manually Add a Lock to the Gateway**. In the screen that appears, type the lock serial number and select the lock model from the **Lock Type** pull-down. Then click **Add Lock**. This feature adds the lock(s) to the database; when finished adding locks, click **Tools > Send Lock Config Table to the Gateway**. All locks in the database will then attempt to be assigned to the Gateway. For more information with using this feature, see 21.

# Linking Lock Profiles

After physical locks are successfully assigned to the Gateway, they must be "Linked" to Lock Profiles (locks not Linked cannot be downloaded). In DL-Windows, the word "Link" is used to describe the specific action of associating a Lock Profile to the physical lock assigned to the Gateway (by serial number). The Lock Type (model) of the Lock Profile MUST match the assigned lock to which you wish to Link. The **Link / Unlink Lock Profiles** screen may be accessed in one of two ways:

- More commonly, the screen is accessed immediately following lock assignment (click **Yes** to confirmation popup shown on previous page);

or

- At a later time, from the DL-Windows "Main Screen", click **Tools > Link / Unlink Lock Profiles**.

**Note:** A condensed version of the screen may be accessed via the right-click options from the Lock Profile (right-click the Lock Profile and select "**Link / Unlink Lock Profile**"). See page 47 for more information.

The screenshot shows a window titled "Link/Unlink Lock Profiles [Hunterdon Hospital]". It contains a text box with instructions: "To link a Lock Profile with a physical lock, select the desired 'Available Lock Profile' followed by the 'Available Lock by Serial Number' from the lists. The pair will move to the 'Linked Locks' grid below. Linking can be undone at any time by selecting 'Unlink Lock'." Below this are two lists: "Available Lock Profiles" and "Available Locks By Serial Number". The "Available Locks By Serial Number" list is filtered to show only locks with a matching lock type (PDL6500). At the bottom, there is a "Linked Locks" table, an "Unlink Lock" button, and a "Close" button.

**Available Lock Profiles**  
Displays all existing available Lock Profiles in the current Account.

**Available Locks By Serial Number**  
Displays the physical lock serial number; the Lock Type (model), the Gateway name and the IP address to which the physical lock is assigned.

**Linked Locks**  
Lists the physical locks currently Linked to Lock Profiles.

**Unlink Lock**  
Unlinks the selected Lock Profile.

**Close**  
Click to save changes and exit.

Lock ID	Lock Profile Description	Serial No.	Gateway	IP Address
1	Front Door	6A9500FF	1st Floor	172.16.201.46

## LINKING PROCEDURE

To Link a Lock Profile to an assigned lock, in the **Available Lock Profiles** field, click to select a Lock Profile, then in the **Available Locks By Serial Number** field, click the physical lock to which you want to Link. The pair will automatically move down to the **Linked Locks** grid at the bottom. **Note:** Since Lock Types (models) must match for successful Linking, when a Lock Profile is selected, the **Available Locks By Serial Number** field automatically filters and displays only matching Lock Types.

If an incorrect Linking was made, or if you wish to undo a Linking, simply select the Linked lock from the **Linked Locks** grid and click the **Unlink Lock** button (the Lock Profile and the available locks will return to their respective lists, and are thereafter available for Linking).

**CONGRATULATIONS!** Your locks have been Linked, and are now able to be downloaded with Lock Profile data. To add Users, Schedules, etc., see OI382.

# Gateway Configuration > Tools > View Gateway Status

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Tools > View Gateway Status**. Upon selection, the **Gateway Status** is retrieved and displays the operational status of the selected Gateway.

## Description

Displays the text of the **Description** field from the **Gateway Configuration** screen. Default = "New Gateway".

## IP Address

Displays the network address currently assigned to the Gateway.

## Firmware Version

Displays the current firmware edition (or "release") the Gateway is running.

## Firmware Update

Indicates the result of the last Gateway firmware upgrade process. "Good" signifies that the last firmware upgrade was completed without errors. "Bad" signifies the last firmware upgrade was completed unsuccessfully. See **Tools > Update Gateway Firmware** on page 20 for more information.

## Security Code ("Security Password")

Indicates the status of the Security Password by comparing the Security Password in the Gateway with the Security Password in DL-Windows. If Passwords are not identical, the field indicates "Security Mismatch", thus disabling DL-Windows-to-Gateway communications.

## Lock Communication Error

Indicates if locks assigned to the selected Gateway previously failed to communicate with that Gateway. If "**Communication Error**" appears in this field, a lock communication failure was detected. Click **Tools > View Gateway's Lock Table** to determine which lock failed to communicate.

## Status

Displays the current state (or condition) of the Gateway. Indicates either "**Normal**" to indicate a normal condition; "**Emergency Lock Down**" if an Emergency Lock Down Command was sent; and "**Emergency Passage**" if an Emergency Passage Command was sent.

## Last Updated

Displays the date and time of the latest Gateway status update (the last time the **Gateway Status** was retrieved).

## Update (button)

Click to request an updated Gateway status from the Gateway. All fields will be refreshed upon Gateway status retrieval.

The screenshot shows a dialog box titled "Gateway Status" with a close button (X) in the top right corner. The dialog contains the following fields and values:

Description	1st Floor
IP Address	172.16.201.46
Firmware Version	3.86
Firmware Update	Good
Security Code	Good
Lock Communication Error	None
Status	Normal
Last Updated	11/14/2013 4:21:56 PM

At the bottom of the dialog, there are two buttons: "Update" and "Close".

# Gateway Configuration > Tools > View Gateway's Lock Table

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Tools > View Gateway's Lock Table**. Upon selection, the Gateway's internal "Lock Table" is displayed, showing each lock assigned to the selected Gateway, and their status as of the last time the table was updated (date and time shown at bottom left). Use this screen as a tool to verify successful communication with your locks, and their configuration status. Click **Refresh** to retrieve and display the latest information.

Lock Profile	Serial Number	Lock Type	Firmware	Status	Lock Status	Signal	Battery
Not Linked	BF440003	PDL7100	0	Unable to Configure	Communication Error	0	Unknown
Side Door 1	F623011A	ETDLN	62.e	Assigned	In Passage	69	Good
Not Linked	F65F0156	DL6500	58.e	Assigned	Locked	63.5	Good
Front Vestibule	3460E074	NETWX PNL	64.j	Assigned	Locked	79.5	Low
Front Door	6A9500FF	PDL6100	55.l	Assigned	Locked	65	Good
Office 2	A62900CF	PDL6500	57.f	Assigned	Locked	34	Good

Last Update: 11-15-2013 09:49:54 AM

Refresh Close

### Lock Profile

Displays name of the Lock Profile Linked to the physical lock assigned to the Gateway. If not Linked to a Gateway, the text reads "Not Linked".

### Serial Number

Displays the lock's unique number assigned and programmed into the lock firmware at the factory. Each Networkx lock is identified in the system by this unique serial number.

### Lock Type

Specifies the model of the Trilogy Networkx series locking devices, such as "PDL6100", "DL6100" or "PL6100".

### Firmware

Indicates the firmware source code edition currently residing in each physical lock.

### Status

Indicates whether the physical lock is currently "assigned" to the Gateway (was successfully added and configured) or "Unable to Configure" (failed to be added and assigned to the Gateway).

### Lock Status

Indicates the latest condition of the physical lock (i.e. "Locked", "Passage", etc.). If status is unknown or unable to be retrieved, "Communication Error" will be displayed.

### Signal

Indicates the radio transmission strength, as measured between the Gateway to the physical lock (GTW Rx). A **higher number indicates stronger signal**.

### Battery

Displays the status of the battery powering each physical lock.

### Refresh (button)

Click to retrieve and update the contents of this **Gateway Lock Table** screen.



# Gateway Configuration > Tools > Delete Lock(s) by Serial Number(s)

In the **Gateway Configuration** screen, click **Tools > Delete Lock(s) by Serial Number(s)**. Upon selection, a table displaying all physical locks discovered by all Gateways in the Account is displayed. Multiple locks can be removed from multiple Gateways by checking their respective checkboxes and clicking **Delete**. **Note:** The removal command is first sent to the Gateway, then is sent to each selected physical lock to break the relationship between them. Once removed, the lock becomes unassigned and thus able to be re-discovered.

## Lock Information

Displays **Lock ID** number and Lock Profile name. If not Linked to a Gateway, "**Not Linked**" is displayed.

## Serial Number

Displays the physical lock's unique serial number assigned and programmed into the lock firmware at the factory. Each Networkx lock is identified in the system by this unique serial number.

## Lock Type

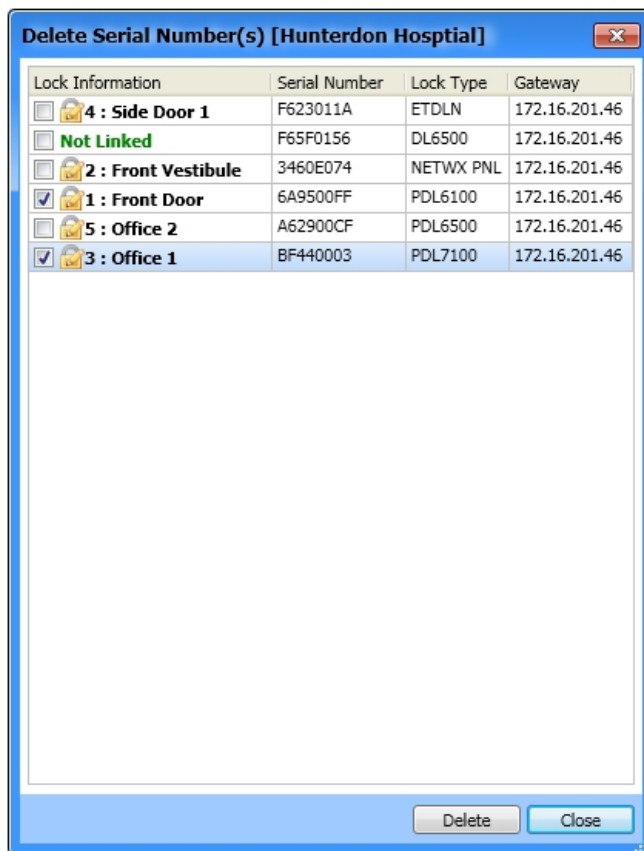
Specifies the model of the Trilogy Networkx series locking devices, such as "PDL6100", "DL6100" or "PL6100".

## Gateway

Displays the IP address of each Gateway in the Account to which the lock is assigned.

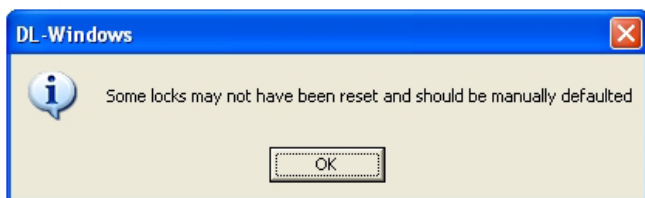
## Delete (button)

Click to send a delete command to the Gateway and to the selected (checked) physical locks.



## Unresponsive Lock(s)

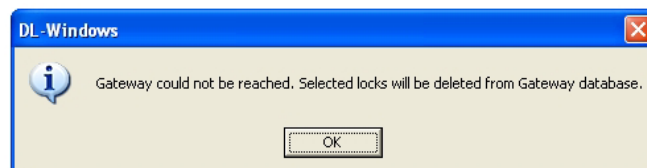
If some locks could not be reached and therefore could not receive the delete command, although the locks will be removed from the **Gateway Lock Table** (see previous page), each lock should be manually reset ("defaulted") to remove their lock assignments (thus allowing for re-discovery). See the programming instructions that came with the lock for the reset procedure.



## Unresponsive Gateway(s)

If some Gateways could not be reached and therefore could not receive the delete command, the selected locks will be removed from the DL-Windows Gateway database. The Gateway will be updated later when the Gateway connection is re-established.

**Note:** Since the Gateway could not be reached, the selected locks could not be reached either. Therefore, although the selected locks will be removed from the **Gateway Lock Table** (see previous page), these locks should be manually reset ("defaulted") to remove their lock assignments. See the programming instructions that came with the lock for the reset procedure. .



# Gateway Configuration > Tools > Configure / Edit Network Settings

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Tools > Configure / Edit Network Settings**. Upon selection, the **Network Configuration** screen will open, allowing for Gateway network settings to be configured or edited. This screen is typically used to configure the Gateway with a static IP address, configure for "Internet Gateway Connectivity" (**Remote Configuration** settings) and/or wireless Gateway configuration. **Important:** For more information about configuring your Gateway with a static IP address, "Internet Gateway Connectivity" (**Remote Configuration** settings), and/or **Wireless Network Configuration**, see WI2085.

The following is a brief description of each field as it applies to DL-Windows; see your network administrator for more information if needed.

## IP Address Setup

### Wireless Mode

Configures the selected Gateway for either wireless or wired communication with the computer network. Select either **Wired Only** or **Wireless Only** from this pull-down menu. If **Wireless Only** is selected, the **Wireless Network Security** area and the **Wireless Network Configuration** area both become active and available for selection.

### DHCP Name

To aid in locating the Gateway on the network, specify a name to describe the domain name and hostname of the corresponding IP address assigned to the selected Gateway. The **DHCP Name** entered here will be used for the DNS configuration (default = **ALARMLCK**).

### Use DHCP (checkbox)

**Use DHCP** (Dynamic Host Configuration Protocol) is checked (enabled) by default. When checked, DL-Windows allows the selected Gateway to accept the dynamic assignment of an IP address by the TCP/IP network. *Note that Emergency Commands may NOT function properly using DHCP.* Uncheck **Use DHCP** to allow the manual assignment of a static IP address to the selected Gateway (a warning popup appears that the Gateway may be unreachable until it is installed on the correct network). The **IP Address**, **Subnet Mask** and **Default Gateway** fields become active. Un-checking **Use DHCP** also activates the fields in the **Remote Configuration** area for "Internet Gateway Connectivity" support (though not required unless using for Internet access).

### IP Address

This field allows the (static) IP address to be manually assigned to the selected Gateway.

### Subnet Mask

The IP protocol makes use of a Subnet Mask to more efficiently route packets to their correct network destinations.

### Default Gateway

This field is the IP address of the physical device, such as a router, for the current subnet to which you want to be connected. *This field is not to be confused with the IP address of the Alarm Lock Gateway device installed in the system.*

### Gateway MAC Address

This field represents the unique 12-digit MAC Address of the Gateway. This field cannot be edited or changed.

### WAN Address (Remote Configuration area)

This field allows DL-Windows to communicate with a Gateway over a Wide Area Network (Internet).

### Port (Remote Configuration area)

Default = 10001. Identifies the default Gateway communication port setting.

## Wireless Network Security

### Security Type

Click the pull-down menu to specify the 802.11 security protocol (encryption method) to be used when the selected Gateway is connected to the wireless network. The selections are:

- **WEP** (Wired Equivalent Privacy) The WEP encryption method was designed to provide wireless networks with the "equivalent" security available in traditional wired "landline" networks.
- **WPA** (Wi-Fi Protected Access) A security protocol from the Wi-Fi alliance for 802.11 wireless networks. It uses the Temporal Key Integrity Protocol (TKIP) to provide stronger encryption than the earlier WEP (Wired Equivalent Privacy) method. Derived from, and a subset of, the IEEE 802.11i security standard, WPA includes 802.1x authentication.
- **WPA2** (Wi-Fi Protected Access 2) Supports additional security features of the IEEE 802.11i standard that are not already included in the WPA security protocol.

**Note:** For each Security Type selected, different choices appear for the other fields in the **Wireless Network Security** area of this screen.

### Authentication

Click the pull-down menu to specify the 802.11 authentication protocol to be used when the selected Gateway is connected to the wireless network. When **WEP Security Type** is selected, the options for the selected Gateway are:

- **Open/None:** Requires no Authentication for the data transmissions between the selected Gateway and the router.
- **Shared:** Requires a shared symmetric code (encryption "key") for all data transmissions between the router and the Gateway.

When **WPA** or **WPA2 Security Type** is selected, the option is:

- **Pre-Shared Key (PSK):** Allows the use of manually-entered keys or passwords (encryption "key") to initiate WPA security.

### Encryption

The reversible transformation of data from its original format into a concealed format as a process for securing its accessibility, authenticity and integrity. Encryption uses an encryption algorithm (sequence) and one or more encryption keys (numeric codes).

When **WEP Security Type** is selected, the options for the selected Gateway are:

- **64 bits:** Although the 64-bit WEP data encryption method uses a five-character key size (forty bits or five bytes) for symmetric encryption, plus an additional 24 factory-set bits, this method represents a relatively low level of security.
- **128 bits:** Stronger than 64-bit WEP, 128-bit WEP uses a string of 26 hexadecimal characters (0-9 and A-F), each representing four bits of the key.

When **WPA Security Type** is selected, the option for the selected Gateway is:

- **TKIP:** (Temporal Key Integrity Protocol), a security protocol algorithm that compliments WPA encryption with increased security measures such as extended key lengths and data integrity checks.

When **WPA2 Security Type** is selected, the options for the selected Gateway are:

- **CCMP:** (Counter Mode with Cipher Block Chaining Message Authentication Code Protocol) improves upon both WPA and TKIP. CCMP is a required option for Robust Security Network (RSN) compliant networks.
- **TKIP:** See above.

### Key Type

A "key" is a numeric code used to encrypt data, and is used to secure the data traffic between the router and the Gateways. The key "type" can be "**Passphrase**" or "**Hex**" (a hexadecimal string, for example, '45D3 E454 3523 EDC2'). To ease encryption key entry, a password or passphrase can be entered instead of the cryptic hexadecimal characters.

### Key

#### Retype Key

Type your key in the **Key** field, and re-type in the **Retype Key** field to confirm it. Maximum character entry dependant upon selections made above.

## Wireless Network Configuration

### Network Name (SSID)

This field allows you to specify the SSID (Service Set Identifier) name assigned to the wireless Wi-Fi (802.11) network. Wireless Gateway models in a system must use this name to allow for network communication. **Note:** This field is case-sensitive and can be up to 32 bytes in length.

### Network Type

Click the pull-down menu to select the network communication mode. With "**Infrastructure**" selected, the Gateways communicate to a wired LAN via access points. With "**Ad Hoc**" selected, the Gateways can communicate directly in a peer-to-peer fashion.

### Channel Number

Click the pull-down menu to manually specify the number (1 - 11) of the carrier frequency (subchannel pathway) between the selected Gateway and the wireless Wi-Fi (802.11) network.

### Save (button)

Click to record all network configuration data to the database. Use this option when connection to the Gateway failed due to incorrect network configuration entry. **Note:** Network configuration data will not be *sent* to the Gateway.

### Send (button)

Click to save all network configuration data to the database and send all network configuration data to the Gateway.

### Close (button)

Click "**X**" or the **Close** button to exit the screen without saving changes.

# Gateway Configuration > Tools > Ping Gateway

In the **Gateway Configuration** screen, click **Tools > Ping Gateway**.

Upon selection, a **Ping (Packet INternet Groper)** command will test whether the IP address of the Gateway is reachable on the network. Ping sends a packet out on the network and waits for a response; the result of the ping is indicated by a splash screen on the DL-Windows "Main Screen". A successful test displays the IP address of the Gateway with the word "**found**"; an unsuccessful test displays the IP address of the Gateway with the words "**not found**".

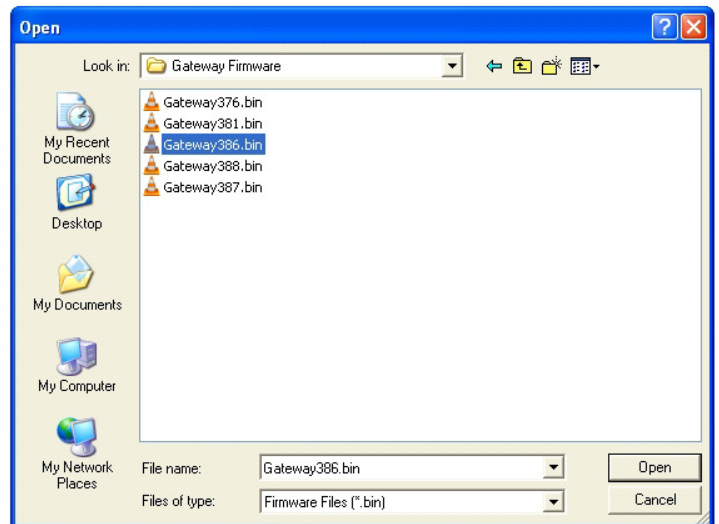
# Gateway Configuration > Tools > Update Gateway Firmware

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Tools > Update Gateway Firmware**.

Upon selection, the standard Windows **Open** dialog box appears (shown at right), allowing you to browse for the binary ".bin" file containing the Gateway firmware update.

Select Gateway firmware file, then click **Open** to initiate the update process.

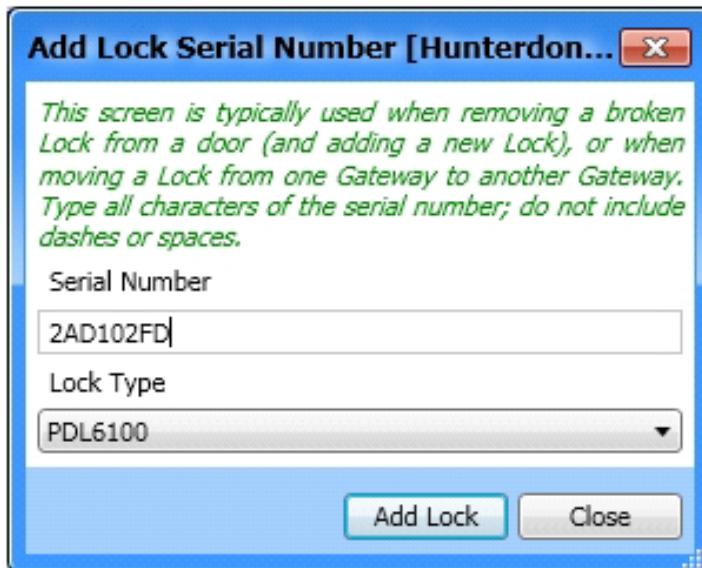
The system will check the integrity of the firmware, burn it into the Gateway memory, reboot the Gateway and verify if the Gateway is functioning properly. Upon completion, a **Gateway Status** screen will automatically open. Verify that the **Firmware Update** field is green, reads "**Good**", and the Gateway firmware version has been updated in the **Firmware Version** field.



# Gateway Configuration > Tools > Manually Add a Lock to the Gateway

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Tools > Manually Add a Lock to the Gateway**. Upon selection, the **Add Lock Serial Number** screen opens, where you can *manually* assign a specific lock serial number(s) to a selected Gateway.

**This screen is typically used** to assign multiple locks to a Gateway without needing to perform the discovery process. Manually type the serial number(s) of the lock(s) and select their corresponding models from the **Lock Type** pull-down, then click **Add Lock**. Each lock, in succession, will be entered into the Gateway Table. When finished adding locks, you must manually send the Gateway Configuration Table to the Gateway by clicking **Tools > Send Lock Config Table to the Gateway**. **Note:** Remember to Link your locks after sending the Gateway Configuration Table.



### Serial Number

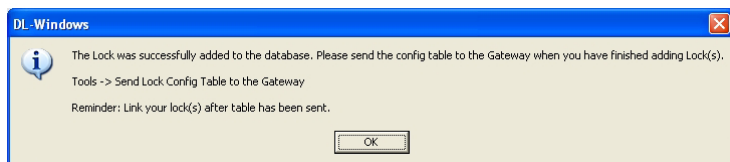
Carefully type the lock's unique 8-character factory serial number located on the lock housing (each Networkx lock is identified in DL-Windows by this unique number). Type all characters of the serial number, **do NOT include dashes or spaces**.

### Lock Type

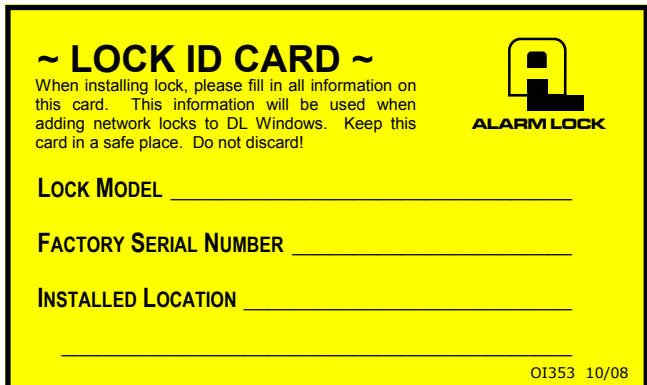
Click the **Lock Type** pull-down and select the corresponding wireless lock model ("DL6100", "PDL6100", etc.).

### Add Lock (button)

Click to manually add the lock to the Gateway (**Serial Number** plus **Lock Type**). The following message will display:



**TIP** We recommend that when installing the lock on the door, a yellow-colored "**LOCK ID CARD**" (see image below) be completed. These yellow cards are a useful way to organize lock information, including lock serial numbers.



## Gateway Configuration > Tools > Send Lock Config Table to the Gateway

In the **Gateway Configuration** screen, click **Tools > Send Lock Config Table to the Gateway**. Upon selection, the Gateway will be updated with the latest configuration data and will attempt to assign locks (if necessary).

In DL-Windows, the word "**configure**" has a specific meaning--to "configure" is to "assign" discovered physical locks to a Gateway, thus ensuring a fixed wireless communication channel exists between selected physical locks and a selected Gateway.

The Gateway sends "configuration data" in the form of a "Lock Configuration Table" to the selected locks. This "configuration data" contains items (an internal lock designation, a specific radio channel and security data) that are all embedded in the "Lock Configuration Table". The "configuration data" then instructs the physical lock(s) to communicate ONLY with that Gateway, thus preventing other Gateways from communicating with the physical lock(s).

Although other applications exist, the three most common uses for sending the Lock Configuration Table to a Gateway are:

- **Assignment Retry** - Lock was successfully discovered, but was unable to be assigned to the Gateway.
- **Completing Manual Lock Addition** - Requirement after manually assigning locks to the Gateway database.
- **Security Mismatch** - "**Gateway Configuration Data**" area elements do not match those elements within the DL-Windows database.

## Gateway Configuration > Tools > Set Emergency Groups

In the **Gateway Configuration** screen, click **Tools > Set Emergency Groups**.

For information about setting Emergency Grouping, see the section "**Using Emergency Commands**" on page 38.

## Gateway Configuration > Tools > Import Assigned Lock

In the **Gateway Configuration** screen, click to highlight a Gateway, then click **Tools > Import Assigned Lock**. Upon selection, the **Gateway Lock Table** for the Account will be updated with data from the Gateway. Locks that are assigned to the Gateway that are not in the **Gateway Lock Table** (in the DL-Windows database) will be imported / added to the DL-Windows database. Though rare, this feature is typically used when a DL-Windows database has been corrupted, and therefore requires an update from the Gateway.

## Gateway Configuration > Tools > Import Gateway and Assigned Locks

In the **Gateway Configuration** screen, after using the **Discover New Gateways** feature, select an "**Available**" Gateway, then click **Tools > Import Gateway and Assigned Locks**. This feature is used to rebuild a DL-Windows database by importing existing Gateway and lock configuration data.

When the Account information stored in DL-Windows is lost (such as with a stolen laptop)--AND--the DL-Windows backup files are either non-existent, inadequate or lost, the above "Import" option can be used.

Once you have successfully re-created pertinent data (Accounts, Lock Profiles, Global Users, etc.), the following steps may be used to recreate your wireless system. **Note:** To successfully restore your wireless system, you **MUST** know the existing Security Password previously set for the Gateway and locks.

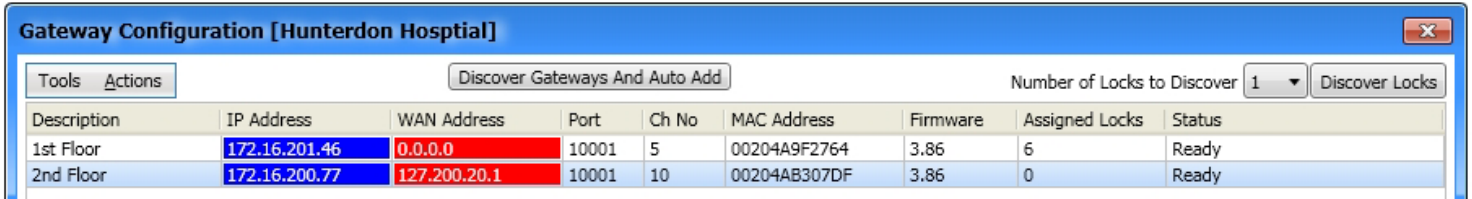
1. In the DL-Windows "Main Screen", click **Tools > Set Security Password**.
2. Type the Security Password that was previously set for the Gateway and locks you wish to import (see page 10 for more information regarding Security Passwords).

3. Click the **Gateway Config** icon to open the **Gateway Configuration** screen.
4. Click **Actions > Discover New Gateways**. The Gateway(s) appear in the **Gateway Configuration** screen (IP address highlighted in green color; Status = "**Available**").  
**IMPORTANT:** Do NOT select **Actions > Add Gateway to Account**.
5. Click to highlight the Gateway you wish to import from the list.
6. Click **Tools > Import Gateway and Assigned Locks**.

The Gateway will be added to the system and the lock configuration table will be imported and written into the DL-Windows database.

# Gateway Configuration > Tools > Show WAN / Port Information

In the **Gateway Configuration** screen, click **Tools > Show WAN / Port Information**. This feature expands the **Gateway Configuration** screen to show the **WAN Address** column and **Port** column. To collapse these columns, click **Tools > Hide WAN / Port Information**.



When using the "Internet Gateway Connectivity" support features (connection to the Gateway is made remotely over the Internet), the **WAN** (Wide Area Network) **Address** and Gateway **Port** setting are required. These **Remote Configuration** settings, previously set in the **Network Configuration** screen, are not automatically displayed in the **Gateway Configuration** screen. Therefore you must click **Tools > Show WAN / Port Information** to view your connection status. See **Color List** on page 12 for more information about Gateway connection conditions. For more information about setting the "Internet Gateway Connectivity" support features, see "Configure / Edit Network Settings" on page 18 and WI2085.

# Gateway Configuration > Tools > Select Network Adapter

In the **Gateway Configuration** screen, click **Tools > Select Network Adapter**. This feature may also be accessed from the DL-Windows "Main Screen", click **Tools > Select Network Adapter**. **Note:** If only one network adapter is detected, these options will be unavailable.

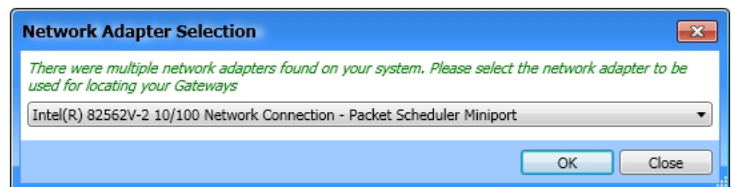
The **Network Adapter Selection** screen allows you to identify and select the "network interface card" (NIC) you are using inside your computer to communicate with the Gateway devices in your system. Some computers have the network adapter built into the motherboard, thus precluding the need to make a selection (network adapter is automatically detected). Other computers may use external network adapters (i.e. a USB network adapter). When both are present, the **Network Adapter Selection** screen may automatically appear when opening the **Gateway Configuration** screen, thus requiring the selection of the desired network adapter. Remember, the router or corporate Ethernet network is connected to an Ethernet adapter with an Ethernet cable (RJ-45 plug).

## Network Adapter Selection

Click the pull-down menu to select the network card used by the computer.

Click **OK** to save the selection or **Cancel** to exit without saving. **Note:** Clicking **OK** in this screen saves the selection *only for the duration of the current DL-Windows session*. Quitting and restarting DL-Windows may require re-opening this screen and re-selecting the network adapter.

**Note:** If the network adapter settings change when the DL-Windows program is running, DL-Windows may require you to close and re-open the program.





# Gateway Configuration > Tools > Manually Add a Gateway

In the **Gateway Configuration** screen, click **Tools > Manually Add a Gateway**. Upon selection, the **Manual Gateway Addition** screen opens, where you can *manually* add a Gateway by adding its unique MAC address.

This screen is typically used to add a Gateway to an Account without needing to perform the Gateway discovery process. Manually type the unique MAC address of the Gateway in the **Gateway MAC Address** field, then click **Save**. The Gateway MAC address will be saved to the database and added to the Account, and a connection to the Gateway will be attempted. If the Gateway connection is established successfully, the IP address will be highlighted blue (if unsuccessful, it will be highlighted red). When manually adding a Gateway to an Account, keep in mind the following:

- The Gateway you wish to manually add to the Account must be on the network and **"Available"** (dynamically obtained IP address and manually reset). See WI2085 for more information.

**TIP** For a Gateway to be considered **"Available"**, it must be on the network, have a dynamically obtained IP address, and manually reset (see WI2085 for reset Gateway procedures). A Gateway may also be considered **"Available"** if it already contains the same Security Password as the Security Password set for the Account. See section **Tools> Import Gateway and Assign Lock(s)** for more information.

- The Gateway must be successfully saved and added to the Account before configuring a static IP address or wireless settings.
- When using the **"Internet Gateway Connectivity"** feature, uncheck **Use DHCP** and type the required **Remote Configuration** settings (**WAN Address** and **Port**). See WI2085.

## Gateway MAC Address

Carefully type the Gateway's unique 12-character factory MAC Address located on the square sticker under the bar code. Each Networx Gateway is identified in DL-Windows by this unique number. Type all characters of the MAC Address, **do not include dashes or spaces**. **Note:** The **Save** button will be enabled after 12 characters are typed.

## Save (button)

Click to manually add the Gateway into the DL-Windows database. A connection will be attempted and if successful, the Gateway will be ready for use.

**Manual Gateway Addition [Hunterdon Hospital]**

IP Address Setup

Wireless Mode: Wired Only | DHCP Name: [ ]

Use DHCP

IP Address: 0 . 0 . 0 . 0 | Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 0 . 0 . 0 . 0 | Gateway MAC Address: 00204ACB34AF

Remote Configuration

WAN Address: 0 . 0 . 0 . 0 | Port: 10001

*(Required only for internet access)*

Wireless Network Security

Security Type: None | Authentication: None

Encryption: None | Key Type: None

Key: [ ]

Retype Key: [ ]

Wireless Network Configuration

Network Name (SSID): [ ]

Network Type: Infrastructure | Channel Number: [ ]

Save Close

**TIP** We recommend that when installing a Gateway, a blue-colored **"GATEWAY ID CARD"** (see image below) be completed. These blue cards are a useful way to organize Gateway information, including the MAC Address and physical location of the Gateway.

**~ GATEWAY ID CARD ~**

**ALARM LOCK**

When installing the Gateway, please fill in all information on this card. This information will be used when adding Gateway devices to DL Windows. Keep this card in a safe place. Do not discard!

GATEWAY MODEL \_\_\_\_\_

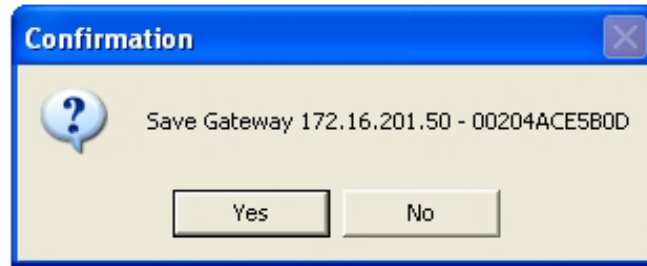
MAC ADDRESS \_\_\_\_\_

INSTALLED LOCATION \_\_\_\_\_

01357 2/09

## Gateway Configuration > Actions > Add Gateway to Account

In the **Gateway Configuration** screen, after using the **Discover New Gateways** feature, select an **"Available"** Gateway, then click **Actions > Add Gateway to Account**. A confirmation popup appears:



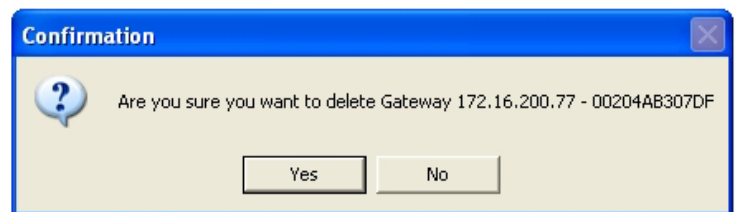
Click **Yes** in the confirmation popup to complete the Gateway addition. **Note:** This action is used when adding newly discovered (**"Available"**) Gateways to the Account (Gateway IP address highlighted in green). See page 12 for more information about **Discovering / Adding Gateways**.

## Gateway Configuration > Actions > Remove Gateway from Account

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Actions > Remove Gateway from Account**. Before the Gateway can be removed from the Account, *any locks already assigned to the selected Gateway must first be deleted ("un-assigned") from that Gateway*. If all locks have already been deleted from the Gateway, or if there are no locks assigned to the Gateway, upon selection, and after confirmation, the Gateway will be deleted from the Account.



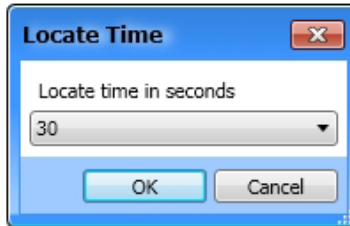
For more information regarding removing locks, see page 17.



Confirmation Popup

## Gateway Configuration > Actions > Locate All Locks on Gateway

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Actions > Locate All Locks on Gateway**. Upon selection, the **Locate Time** screen opens (shown below) where you can set the duration of time (in seconds) for all locks assigned to the selected Gateway to beep and flash their red LEDs. This option is typically used when you wish to find all of the physical locks or to confirm the wireless connection is operational. **Note:** Locks may be located even if they are not Linked to a Lock Profile.



### Locate Time in Seconds

Click the pull-down menu to select the time in seconds during which all wireless locks assigned to the selected Gateway will beep and flash their red LEDs. Up to 255 seconds (4 minutes 15 seconds) can be selected; default duration is 30 seconds.

### OK (button)

Click **OK** and all wireless locks assigned to the selected Gateway will beep and flash their red LEDs for the selected **Locate Time** duration.

### Cancel

Click to exit without requesting the locate action.

**Note:** Individual locks may be located (beep and flash their red LEDs) via a right-click option from the Account List area (see "**Locate Lock**" on page 48).

## Gateway Configuration > Actions > Discover Locks

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Actions > Discover Locks**. This option is **identical** in operation to the **Discover Locks** button found in the **Gateway Configuration** screen. See page 13 for more information about discovering wireless locks.

## Gateway Configuration > Actions > Discover New Gateways

In the **Gateway Configuration** screen, click **Actions > Discover New Gateways**. Upon selection, an attempt is made to discover all new Gateway devices on the network. Gateways that are not yet added and are therefore "**Available**" will be listed in the **Gateway Configuration** screen with the IP address highlighted in green. This option is used when using the two-step approach indicated in the **Discovering / Adding Gateways** section on page 12 of this manual. In addition, this option may be used to rebuild a database by importing an existing Gateway and its lock configuration data (see page 23, **Tools > Import Gateway and Assigned Locks**).

## Gateway Configuration > Actions > Relocate Gateways (Displayed in red)

In the **Gateway Configuration** screen, click **Actions > Relocate Gateways (Displayed in red)**. Upon selection, an attempt is made to "relocate" (re-establish a connection) with all of the Gateways that have their IP addresses highlighted in **red** (Status = "**Unreachable**"). **Note:** If Status = "**Security Mismatch**", see **TIP** below.

A configured Gateway (discovered on the network, added to an Account and operational) is listed in the **Gateway Configuration** screen with its IP address highlighted **blue** (Status = "**Ready**"). When a configured Gateway has subsequently lost communication with the network and the **Gateway Configuration** screen is opened, the Gateways IP address will be highlighted **red** (Status = "**Unreachable**").

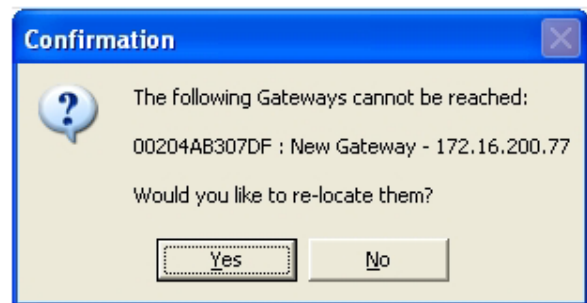
If a Gateway(s) is unreachable with its IP address highlighted **red**, by clicking **Actions > Relocate Gateways (Displayed in red)**, an attempt is made to re-connect with that Gateway(s).

If a Gateway IP address is highlighted in red, and therefore a connection could not be established, try the following:

- 1. Check the network.** Re-refresh the **Gateway Configuration** screen (by closing and re-opening the screen). If other Gateways exist in the Account and are listed highlighted in blue, this indicates that part of the network is still operational. You may need to contact your network administrator to assist in finding the source of the network problem.
- 2. Check your physical connections to the Gateway.**
  - The RJ-45 socket on the Gateway contains two LEDs; the green LED should be lit continually when the RJ-45 plug is inserted and properly connected. The yellow LED flickers when data is being sent to or from the Gateway. If these two LEDs are not functioning, you can suspect the problem lies with the RJ-45 cable or the network. Try replacing the RJ-45 cable. **Note:** Both LEDs are **not** lit when the Gateway is configured for wireless (802.11) use.
  - If the RJ-45 socket LEDs are operational, remove the Gateway housing cover, power down and power up the Gateway by removing and replacing the power wires at the Gateway power terminals.
- 3. Check your network configuration settings.** Click **Tools > Configure / Edit Network Settings**. Edit any fields that may be incorrect. Click **Save** to save the changes to the database.
- 4. Replace the Gateway.** If the network and the physical connections are found to be in working order, the Gateway device itself may need to be replaced. Open the Gateway housing cover on the new Gateway de-

vice (it may be helpful to make note of the new Gateway's MAC Address located on a square sticker (the MAC Address is located under the bar code and has 12 digits, grouped in 6 pairs separated by dashes). Disconnect the power wires and the RJ-45 plug from the old Gateway and reconnect all wires to the new Gateway. Continue with the **Actions, Replace Gateway with New One** procedures on the next page.

**Note:** Upon opening the **Gateway Configuration** screen, connection to each configured Gateway is verified before proceeding. If the Gateway cannot be reached, the following message is displayed providing the option to relocate the Gateway.



**TIP** If the Status = "**Security Mismatch**", the Security Password in the Gateway does not match the Security Password in DL-Windows. Try manually resetting the Gateway (partial reset) then click **Tools > Send Lock Config Table to the Gateway**. See the instructions in WI2085 for resetting the Gateway.

## Gateway Configuration > Actions > Replace Gateway with New One

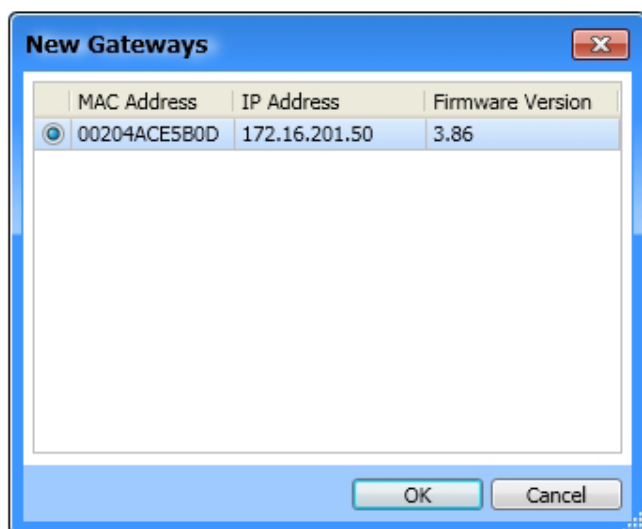
In the **Gateway Configuration** screen, click to highlight an "unreachable" (IP address highlighted red) Gateway in the list, then click **Actions > Replace Gateway with New One**. Upon selection, the Gateway discovery process is started, and all newly discovered Gateways will be listed in the **New Gateways** screen. Select the desired Gateway from the list, then click **OK**. All existing Gateway configuration data (radio channel, security data, etc.) and the replaced Gateway's Lock Table (existing assigned locks) will be sent to (and used by) the new Gateway. **Note:** Functional Gateways (Status = **Ready**; IP address highlighted blue) may also be replaced, if desired.

This option is typically used when a working Gateway (discovered on the network, added to an Account and operational with physical locks assigned) becomes faulty and needs to be physically replaced.

Before replacing the Gateway, be sure to check the network and the Gateway connections outlined in the **Actions, Relocate Gateways (Displayed in red)** on the previous page.

Physically replace the Gateway device: Disconnect the power wires and the RJ-45 plug from the old device, then reconnect all wires to the new device. Remember to press the **"RESET"** button on the new Gateway PC board to clear the Gateway memory (see the instructions in WI2085 for resetting the Gateway).

In the **Gateway Configuration** screen, click to select the Gateway you wish to replace. Then click **Actions > Replace Gateway with New One**. The following screen appears showing newly discovered Gateways:



Click the radio button to select the desired Gateway and click **OK**. DL-Windows will automatically replace the old Gateway with the new Gateway, copying the Gateway configuration data (radio channel, security data, etc.) and existing assigned locks into the new Gateway.

# Gateway Configuration > Actions > Gateway Signal Test Mode

In the **Gateway Configuration** screen, click to highlight a specific Gateway in the list, then click **Actions > Gateway Signal Test Mode**. Upon selection, the **Gateway Signal Test** screen opens (shown below) where you can set the duration of time (minutes) the Gateway will continuously generate a signal to the **AL-NSM Networx Signal Meter** (required). For new and existing installations, this option is used to perform a site survey test of the premises, to help you find the optimum location for Gateways relative to the door locks, and to determine the optimum number of Gateways needed to cover the number of locks you plan to install. **IMPORTANT:** This feature will only operate with Gateway firmware version 3.88 or later.

### Test time in minutes

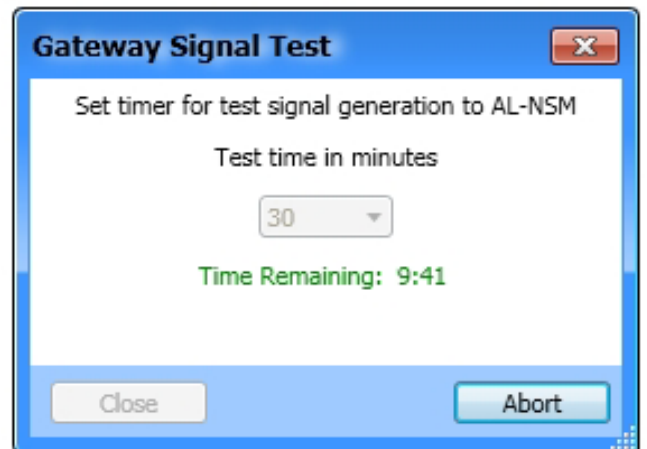
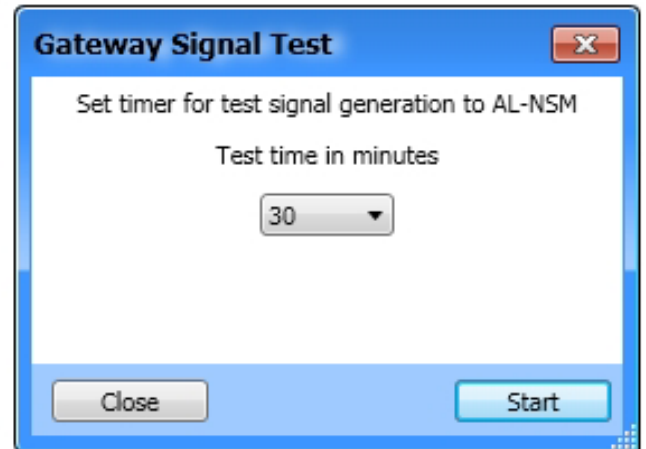
Click the pull-down menu to select the time (in minutes) the Gateway will generate a signal to the AL-NSM (Networx Signal Meter). 1 - 30 minutes can be selected (default is 30 minutes).

### Start (button)

Click to initiate the test signal generation from the selected Gateway to the AL-NSM (Networx Signal Meter), for the time selected. **Note:** A countdown (time remaining) will display (see image below right). Notice that the **Start** button changes to an **Abort** button that can be clicked to cancel the test signal generation.

### Abort (button)

The **Start** button changes to this **Abort** button. Click **Abort** to cancel the test signal generation to the AL-NSM (Networx Signal Meter).



# Communicating with Wireless Locks

## Networx Communication Overview

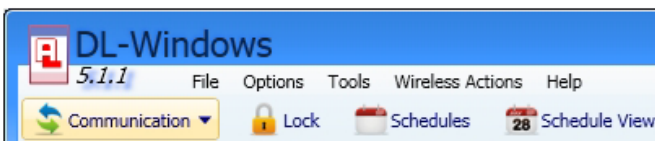
Once you have discovered your Gateways, assigned your locks and Linked them to Lock Profiles, there are several methods for sending data to (or receiving data from) wireless locks:

- **Method 1:** Communicate with wireless locks individually using the **Communication** button on the DL-Windows "Main Screen" (or from the **Lock Data** screen);
- **Method 2:** Communicate with multiple wireless locks (one after another) using the **Wireless** screen;
- **Method 3:** Communicate automatically at a specified time using a **Wireless Schedule** screen action.

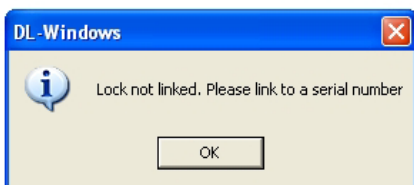
**Note:** Keypad programming of User Codes, Features, Time Zones, and Schedules is available as a *temporary* convenience to allow the lock to be put into use before installing and configuring a wireless network. *Therefore, all lock programming added via the keypad cannot be retrieved from the lock into DL-Windows.* If you decide to start programming your wireless lock via the keypad, we recommend you keep hardcopy records (in a secure location) of all Users, their User Codes, and any proximity cards that may have been programmed. Keeping complete and accurate records saves time because after the wireless network is set up, any programming added via the keypad must be re-added to DL-Windows and downloaded back to the lock(s).

### Method 1: "Communicate with Selected Networx Lock"

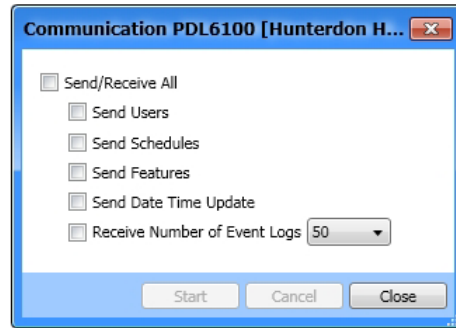
1. In the DL-Windows "Main Screen", click the **Communication** button on the toolbar and select **Communicate with Selected Networx Lock**.



**Note:** The **Communication** button on the **Lock Data** screen may also be used. In addition, if your lock has not been Linked to a Lock Profile, the following popup appears:



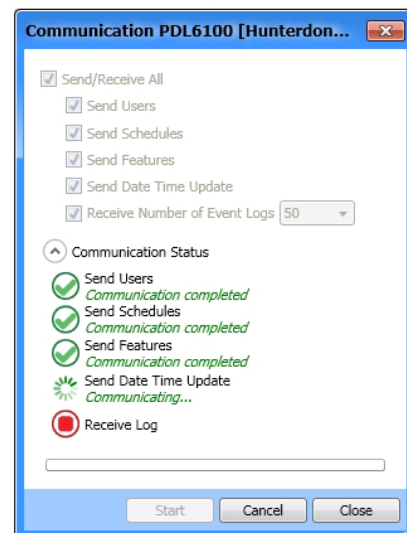
2. If Linked, the following screen appears:



Any combination of available data may be sent to your lock.

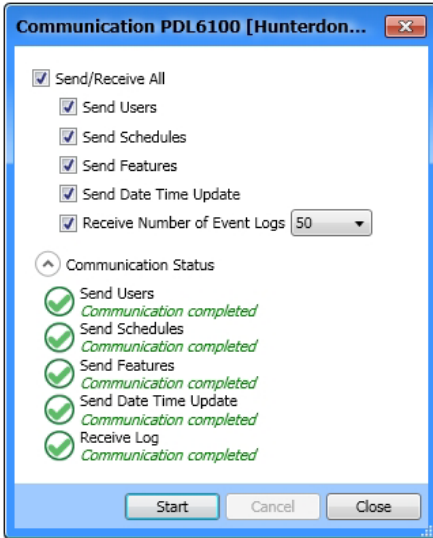
Select any combination of data to send to your wireless lock; a red circle with red square will denote those selections made, though it is recommended to check **"Send/Receive All"**.

- **Send/Receive All** - Sends the complete program to (and receives selected number of Event Logs from) the wireless lock.
  - **Send Users** - Sends all User Information including User Enable / Disable status, User Codes (PINs), proximity information, Group Assignments and Emergency Users.
  - **Send Schedules** - Sends all Schedules (see OI382 for more details).
  - **Send Features** - Sends all Features chosen in the **Features** screen (see **Features** section(s) in OI382 for more details).
  - **Send Date Time Update** - Updates the wireless lock with the PCs current date and time.
  - **Receive Number of Event Logs (pull-down)** - Receives the selected number of Event Logs from the wireless lock (default = 50; maximum = 40,000).
3. Initiate the communication by clicking the **Start** button.  
**Note:** Unlike standard non-wireless Trilogy locks, wireless Networx locks do not need to be configured for PC Program Mode (Function 58).



# Communicating with Wireless Locks (cont'd)

- After data transfer has finished, verify all selected options are displayed with a green checkmark and the message "Communication completed" appears. **Note:** The **Event Log** screen will automatically appear upon successful communication if **Receive Number of Event Logs** was previously selected:



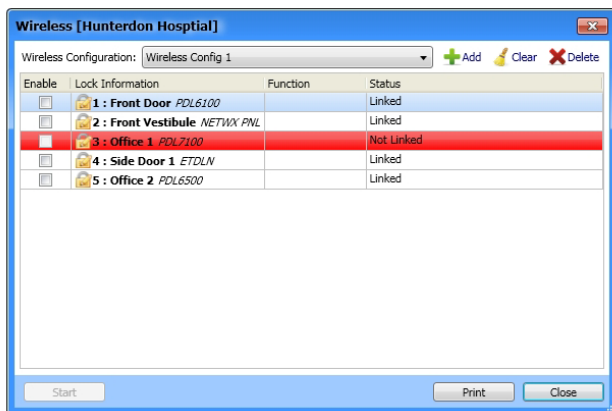
**Note:** If data transfer fails, a circle with a red "X" will denote communication error. Verify proper signal levels and check network connections. For more information, see WI2085.

## Method 2: Communicate with Multiple Wireless Locks in the Account

- In the DL-Windows "Main Screen", click the **Wireless** button on the toolbar.



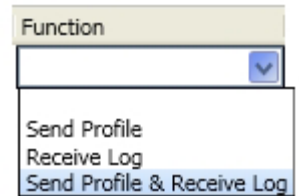
The following screen appears.



**Note:** See page 34 for detailed explanations of each area of the **Wireless** screen. In addition, if your lock has not been Linked to a Lock Profile, the entire row will be highlighted red, and the **Status** column will indicate "Not Linked". The lock *must* be Linked before you can continue to the following steps.

- For each wireless lock with which you want to communicate, click to add a check to the checkbox in the **Enable** column.

- For each enabled lock, double-click its empty box in the **Function** column, and click the desired function in the pull-down (as shown in the accompanying image):



**Note:** To clear a function, click the blank space above **Send Profile**.

Once function is set, the **Start** button will be enabled. Click **Start** to initiate communication to enabled wireless locks. **Note:** The function set for each lock will be performed; upon completion, the **Status** column for each lock will denote the ending status of the communication (i.e. **Communication completed**).

## Method 3: Automatically Communicate with Wireless Locks

This method requires programming in the **Wireless** screen and **Wireless Schedules** screen.

- In the **Wireless** screen, create a **Wireless Configuration** to be used for your wireless Schedule. For each wireless lock you wish to communicate with via a Schedule, click to add a check to the checkbox in the **Enable** column and select the desired function from the pull-down list.

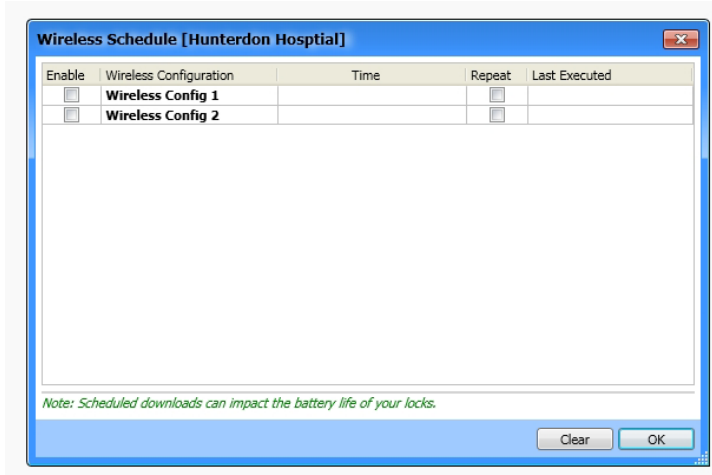
**Note:** Additional **Wireless Configurations** may be added with the "+ Add" button.

- DO NOT click the **Start** button; close the **Wireless** screen. The configuration(s) will be saved, and used in the **Wireless Schedules** screen.

- In the DL-Windows "Main Screen", click **Wireless Actions > Wireless Schedule**. The **Wireless Schedule** screen appears:



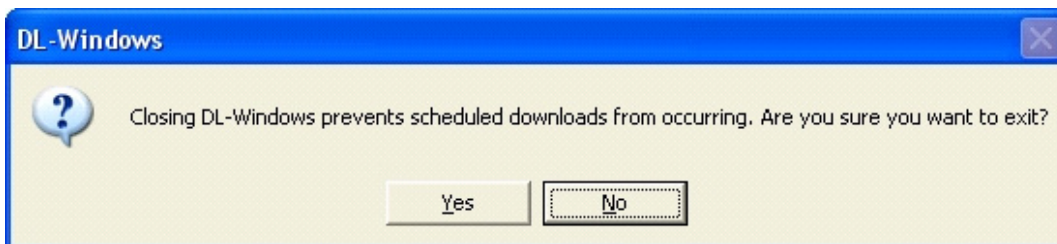
# Communicating with Wireless Locks (cont'd)



**Note:** See page 35 for detailed explanations of each area of the **Wireless Schedule** screen.

4. Check the **Enable** checkbox for desired wireless configurations. **Note: Wireless Configurations** were pre-programmed in step 1.
5. For each enabled configuration, double-click the empty box in the **Time** column to display the pull-down for **HH / MM / AM PM**. Set desired time to initiate the intended automatic communications.
6. Optional - Check the **Repeat** checkbox to program *daily automatic Schedules*. Automatic wireless communication will be performed every day at the programmed time until the **Repeat** checkbox is unchecked.
7. Click **OK** to save wireless Schedule programming.

**Warning:** If you have a Schedule programmed, and DL-Windows is closed, the Schedule will **not** occur. A warning popup appears (shown below) if you try to exit DL-Windows with a schedule programmed:



# "Wireless" Screen - Field and Button Definitions

As described in **Method 2** of the section **Communicating with Wireless Locks** (page 32), the **Wireless** screen allows communication with *individual* or *multiple* wireless locks. The **Wireless** screen can be configured for various functions, as required. Functions include **Send Profile**, **Receive Log**, and **Send Profile & Receive Log**.

Click the **Wireless** button to access the **Wireless** screen.



**Wireless Configuration (pull-down)**  
Click pull-down to select and display wireless configurations (the selections made in this screen will be saved as a "Wireless Config").

**Lock Information**  
Displays Lock ID, Lock Profile and Lock Type (model) of the wireless lock. **Note:** Non-wireless locks (i.e. PDL3000) will not be displayed in this screen.

**+ Add**  
Click to add additional Wireless Configurations.

**Clear**  
Click to clear the selected (checked) Wireless Configuration. **Note:** Also clears last-known communication condition (see **Status**).

**Delete**  
Click to remove the selected Wireless Configuration.

**Enable**  
When checked, upon communication, the **Function** programmed for the enabled wireless lock will be performed. See **Right Click Menus** below for programming short cuts available.

**Start**  
Click to initiate communications to all enabled wireless locks.

**Function (pull down)**  
Click to display a pull-down and select a function to perform upon communication.

- **Send Profile:** Sends full lock program to the wireless lock (Users, Schedules, Features, time/date).
- **Receive Log:** Retrieves the Event Log (Audit Trail) from the wireless lock.
- **Send Profile & Receive Log:** Combines the above two functions.

See **Right Click Menus** below for programming short cuts available.

**Status**  
Displays current state of the link between the Gateway and the lock ("Linked" or "Not Linked"). **Note:** "Not Linked" locks are highlighted in red. This field also displays the last-known lock communication condition and is updated upon subsequent communications.

**Close (button)**  
Click to save settings and exit the screen.

**Print**  
Click to open a "Print Preview" screen, displaying all information in the **Wireless** screen. Click the "Printer" icon to send the request to your default printer.

Enable	Lock Information	Function	Status
<input checked="" type="checkbox"/>	1 : Front Door PDL6100	Send Profile	Linked
<input checked="" type="checkbox"/>	2 : Front Vestibule NETWX PNL	Send Profile	Linked
<input type="checkbox"/>	3 : Office 1 PDL7100		Not Linked
<input checked="" type="checkbox"/>	4 : Side Door 1 ETDLN	Receive Log	Linked
<input checked="" type="checkbox"/>	5 : Office 2 PDL6500	Send Profile & Receive Log	Communication completed

## Right Click Menus

### Enable (right-click menu)

To save time, right-click the "Enable" column; the desired action can be selected as follows:

- **Select All:** Adds a check to enable all (Linked) wireless locks.
- **Unselect All:** Removes a check from all (Linked) wireless locks.
- **Select Highlighted:** Adds a check to the **Enable** checkbox for all highlighted rows.
- **Invert Highlighted:** Removes a check from the **Enable** checkbox for all highlighted rows.

### Function (right-click menu)

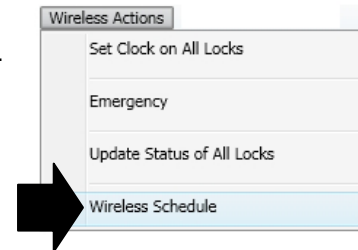
To save time, right-click the "Function" column; the desired action can be selected as follows:

- **Change All to:** "Receive Log"; "Send Profile"; "Send Profile & Receive Log": Selects function for all (Linked) wireless locks.
- **Change Selected:** "Receive Log"; "Send Profile"; "Send Profile & Receive Log": Selects function for all enabled wireless locks.
- **Change Highlighted to...:** "Receive Log"; "Send Profile"; "Send Profile & Receive Log": Selects function for all highlighted wireless locks.

# "Wireless Schedule" Screen - Field and Button Definitions

As described in **Method #3** of the section **Communicating with Wireless Locks** (page 32), the **Wireless Schedule** screen allows for automatic scheduled downloading of wireless locks. The **Wireless Configuration** created in the **Wireless** screen is used to determine which wireless locks (and their respective pre-programmed functions) will automatically download at a pre-designated time. After the scheduled download completes, the **Wireless Schedule** screen automatically opens to allow the **Status** of each download to be verified.

In the DL-Windows "Main Screen", click **Wireless Actions > Wireless Schedule**.



The screenshot shows the 'Wireless Schedule [Hunterdon Hospital]' window. It contains a table with the following data:

Enable	Wireless Configuration	Time	Repeat	Last Executed
<input checked="" type="checkbox"/>	Wireless Config 1	09 : 00 PM	<input checked="" type="checkbox"/>	8/28/2012 11:11:05 AM

Below the table is a note: *Note: Scheduled downloads can impact the battery life of your locks.* At the bottom right are 'Clear' and 'OK' buttons.

**Enable**  
Add a check to enable the Wireless Configuration, thus activating the Schedule.

**Time**  
Click to set the start time of the scheduled communications from the pull-downs (HH / MM / AM PM).

**Repeat**  
Click to repeat the scheduled communication every day at the programmed time. Leave unchecked for one-time scheduled communication. **Note:** Daily automatic communication may impact battery life.

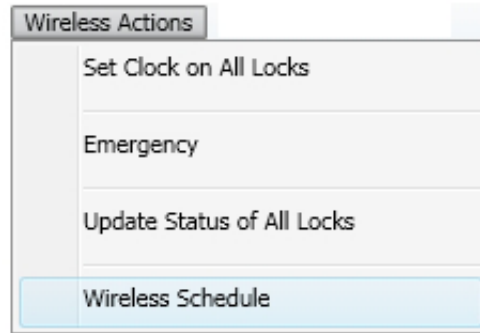
**Last Executed**  
Displays the date and time the Schedule was last executed.

**Wireless Configuration**  
The "Wireless Configuration" created in the **Wireless** screen (enabled locks and pre-set functions).

**Clear**  
Click to uncheck the **Enable** and **Repeat** checkboxes, thus disabling the Schedule.

**OK**  
Click to save the wireless schedule programming and exit.

# Wireless Actions Menu



In the DL-Windows "Main Screen", click **Wireless Actions**:

## **Set Clock on All Locks**

Based upon the current time and date of the PC running DL-Windows, a command is sent to all Gateways to update all locks with this current date and time. **Note:** Locks not Linked will not receive this update command.

## **Emergency**

Opens the **Emergency Commands** screen. For more information about the **Emergency Commands** screen, see page 37 and page 38.

## **Update Status of All Locks**

A command is sent to all Gateways in the Account to request the current status for all assigned wireless locks. Status data received from each lock updates each

Gateways Lock Table. When the Lock Table of the Gateway is subsequently viewed, the Table displays the information as of the latest update request.

**Note:** To view the Gateway Lock Table, in the **Gateway Configuration** screen, select Gateway, then click **Tools > View Gateway's Lock Table** (see page 16).

## **Wireless Schedule**

Opens the **Wireless Schedule** screen. Used for programming automatic scheduled communication with wireless lock(s). See page 35 for more information.

# "Emergency Commands" Screen - Field and Button Definitions

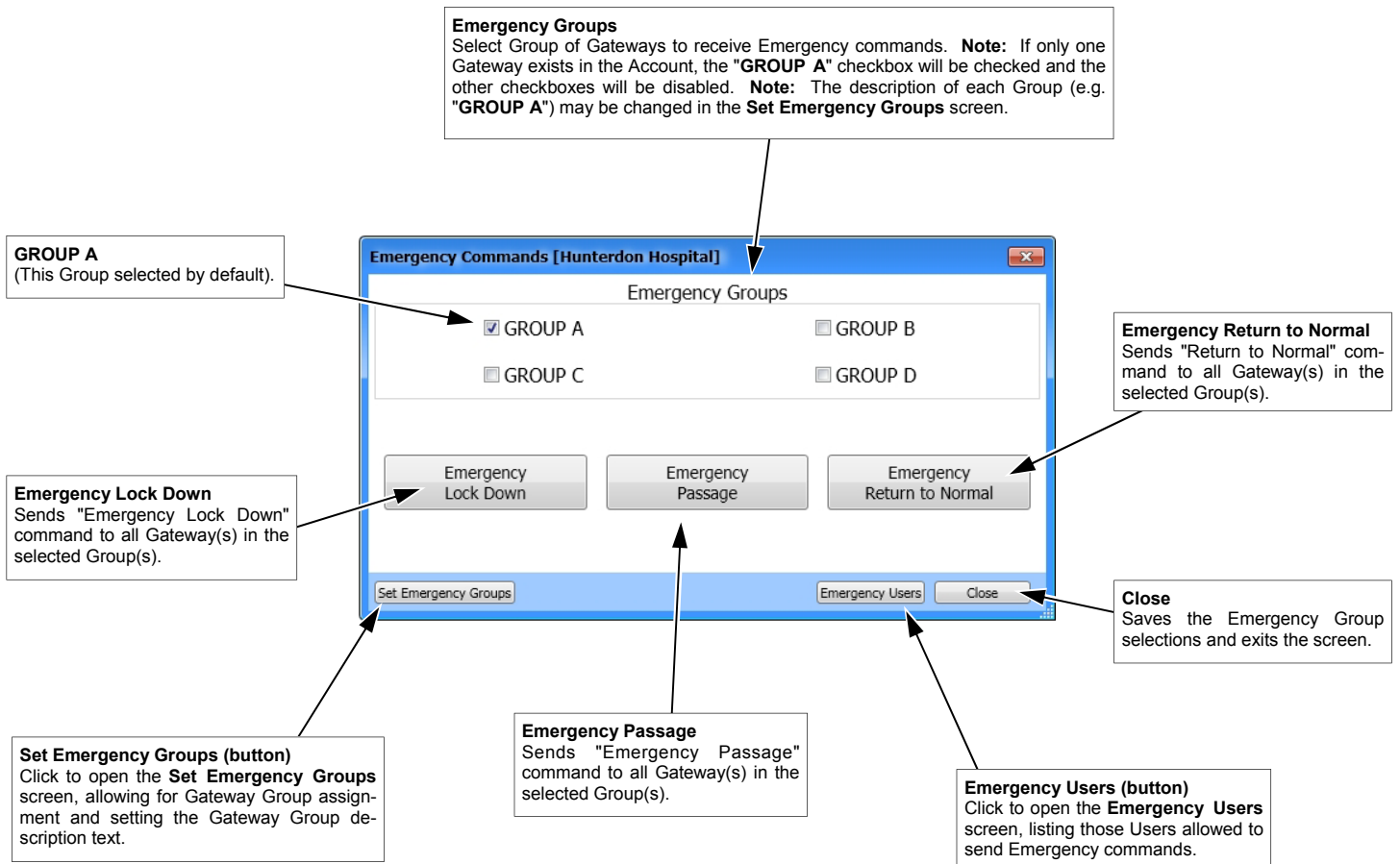
The **Emergency Commands** screen allows for sending Emergency Commands ("Emergency Lock Down", "Emergency Passage" and "Return to Normal") to Groups of Gateways in your system, thus sending the command to all locks assigned to those Gateways. **Note:** All added Gateways are automatically placed into "**GROUP A**" by default; Gateways may be moved to another Group via the **Set Emergency Groups** button. In addition, the **Emergency Users List** may also be viewed from this screen.

Click the **Emergency** button to access the **Emergency Commands** screen. 

The **Emergency Commands** screen may also be accessed in the DL-Windows "Main Screen" by clicking **Wireless Actions > Emergency**.



**IMPORTANT:** Before using the **Emergency Commands** screen, it is important to read the next section regarding how to use Emergency Commands.



# Using Emergency Commands

## Emergency Overview

Three "Emergency Commands" are available in the wireless Trilogy Networkx system:

- **"Emergency Lock Down"**: Places all assigned locks into an indefinitely locked state
- **"Emergency Passage"**: Places all assigned locks into an indefinitely unlocked state
- **"Return to Normal"**: Reverts all assigned locks to the state they were in prior to the initiation of the Emergency command

These "Emergency" Commands can be initiated from DL-Windows via the **Emergency Commands** screen, or at any **Networkx** wireless lock keypad. For more information regarding issuing Emergency Commands at the keypad, see the programming instructions included with your lock. **Note:** DL-Windows does *not* need to be running when issuing an Emergency Command at the keypad.

**WARNING:** NEVER use Emergency Commands to "toggle" Passage Mode, as this will severely impact battery life.

## Getting Started

### Automatic Gateway Grouping ("Emergency Grouping")

Upon the addition of each Gateway into an Account, the Gateway is automatically placed into an Emergency Group ("**GROUP A**" by default). This is done so that upon the initiation of an Emergency Command, **ALL** Gateways in the Emergency Group (and their assigned locks) will respond to Emergency Commands issued from DL-Windows. In addition, the automatic placement of a new Gateway into an Emergency Group allows for keypad-initiated Emergency Commands, to lock down an entire system from a single wireless lock.

### Required Static IP Address

**IMPORTANT:** To ensure Gateways can respond to Emergency Commands, all Gateways **MUST** be configured with static (unchangeable) IP addresses. For more information about configuring a Gateway with a static IP address, see **Gateway Configuration > Tools > Configure / Edit Network Settings** (page 18), and WI2085.

With the addition of each newly added Gateway to an Ac-

count, a **"red siren"** symbol appears at the bottom of the DL-Windows "Main Screen" to serve as a reminder that the added Gateway is configured with a changeable IP address (DHCP). This **"red siren"** symbol will remain until all Gateways in the Account are configured with a *static* IP address.

## Configure Lock for Emergency Commands

All Networkx locks are programmed at the factory to respond to Emergency Commands from DL-Windows. However, DL-Windows DOES allow you to program a specific lock (or locks) to **ignore** Emergency Commands, if desired. In the DL-Windows "Main Screen", click the **Features** button to open the **Features** screen (**Options** tab), then un-check the **Lock Responds to Emergency Commands** checkbox (default is checked). **Note:** Keypad-initiated Emergency Commands will **NOT** function until the Lock Profile has been downloaded to the physical Networkx lock.

## Who can Initiate Emergency Commands?

- **From DL-Windows:** All Users, Administrators and Operators have access to the **Emergency Commands** screen, and therefore can initiate Emergency Commands to any Gateway (and their assigned locks).
- **From a Networkx wireless lock keypad:** Once the Lock Profile has been downloaded to the physical lock, Administrative Users 1 through 11 automatically have the ability to initiate **Emergency Commands** from the keypad. In addition, "non-Admin" Users (12+) may be given the ability to initiate Emergency Commands from the keypad by adding them to the **Emergency Users** list (see next section).

## Adding Emergency Users

To grant the ability of a "non-Admin" User (12+) to initiate keypad Emergency Commands, in DL-Windows, click the **Global** button to open the **Global Users**



## WARNING

**All Emergency Commands MUST be tested weekly (or daily if necessary) to ensure their correct operation.**

# Using Emergency Commands (cont'd)

screen. Click to highlight a User(s) in the **User Name** list, then right-click the User(s); from the menu that appears, select "**Allow User to Issue Emergency Commands**". In the **Global Users** screen **User List**, a "red siren" symbol will display in the **Name** column for those Users who can initiate Emergency Commands. In addition, the Users will be added to the **Emergency Users** list.

The **Emergency Users** list may be accessed from **Global Users > Administrative Users > Emergency Users** or from the **DL-Windows "Main Screen" > Emergency > Emergency Users**. Existing Emergency Users can be removed by selecting the User and clicking the **Remove** button (or from the **Global Users** screen, click to highlight the User(s), then right-click and select from the menu **Remove Emergency User**. The "red siren" symbol will be removed.

## TIP

It may be helpful to refer to the **Terminology** section in the DL-Windows User's Guide (OI382) for detailed descriptions of the terms used in this section (i.e. User Code, User Numbers, etc.).

## Who has Access during Emergency Lock Down?

After a lock has been placed into the Emergency Lock Down state:

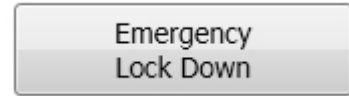
- All Administrative Users (User Numbers 1-11) can still unlock the physical lock.
- All Users added to the **Emergency Users** list (see above) can unlock the physical lock.  
**IMPORTANT:** Users disabled by a Schedule or by any other means **cannot** initiate Emergency Commands, even if they are added to the "**Emergency Users**" list.

To enable access for all Users (including the Master Code) during **Emergency Lock Down**: In the DL-Windows "Main Screen", click the **Features** button to open the **Features** screen (**Options** tab), then un-check the **Users are Disabled During Lock Down** checkbox (default is checked).

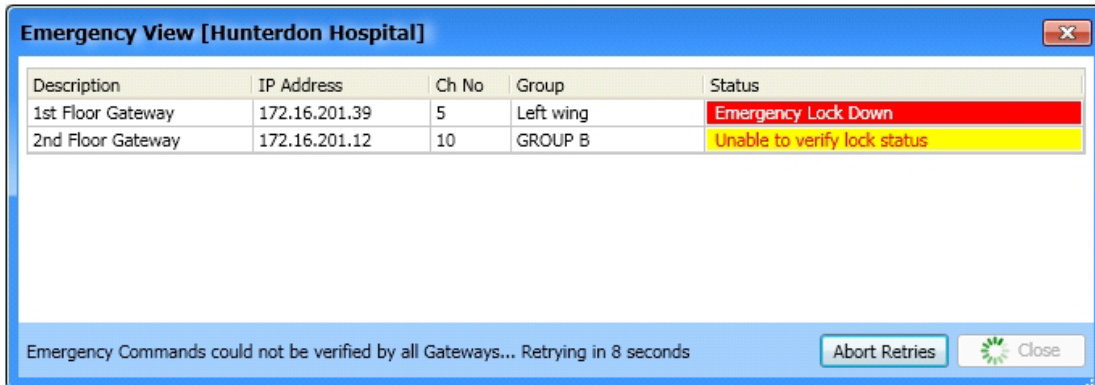
# Emergency > Emergency Lock Down

Selecting **Emergency Lock Down** sends a command to all Gateways (in the selected Gateway Groups) to immediately lock all of their assigned wireless locks, thus securing the protected doors from unwarranted passage. In an Emergency Lock Down state, all Administrative Users (User Numbers 1-11) can still unlock the physical lock. In addition, all Users added to the **Emergency Users** list (see page 38) can unlock the physical lock.

From the **Emergency Commands** screen, click the **Emergency Lock Down** button.



The following **Emergency View** screen appears:



Once all locks assigned to the Gateway receive the selected Emergency Command, the status will return "**Emergency Lock Down**" (highlighted red). In the above image, notice how the status of the second Gateway displays "**Unable to verify lock status**" highlighted in yellow. This indicates that one or more locks assigned to the Gateway may not have received the Emergency Command. Therefore, the **Emergency View** screen cannot be closed and the Emergency Command will be continuously re-tried until the **Abort Retries** button is intentionally clicked.

The following modes will be overridden by an **Emergency Lock Down** Command :

- **Normal** mode ("non-Emergency")
- **Emergency Passage** mode
- **Passage** mode (via keypad Function 45)
- **Scheduled Passage Mode** (via "unlock" Schedule)

**Note:** Once in **Emergency Lock Down**, the wireless physical lock(s) may be placed in Passage mode manually (using keypad Function 48).

## Emergency Lock Down Indication

- **In DL-Windows:** At the bottom of the DL-Windows "Main Screen", a bar will flash from red to yellow with the text "**Emergency Lock Down**" blinking continuously until a subsequent "Return to Normal" command is received (see image at the bottom of this page).
- **At Physical Lock:** Red LED blinks once every two seconds.

**IMPORTANT:** Threats such as fire emergencies, bomb threats or the release of hazardous substances within a protected premises may require an "Emergency Passage" Command to allow for a facility evacuation.

Other threats such as terrorist attacks, hostile intruder situations, the outdoor release of hazardous substances, tornado emergencies and other life-threatening events, may require an "Emergency Lock Down" - the opposite of a facility evacuation.

It is strongly advised that all facilities develop separate Emergency Lock Down and Emergency Passage procedures appropriate for the specific premises, and these Emergency procedures be frequently practiced and continually refined.

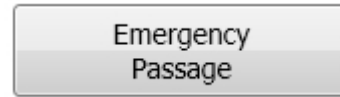




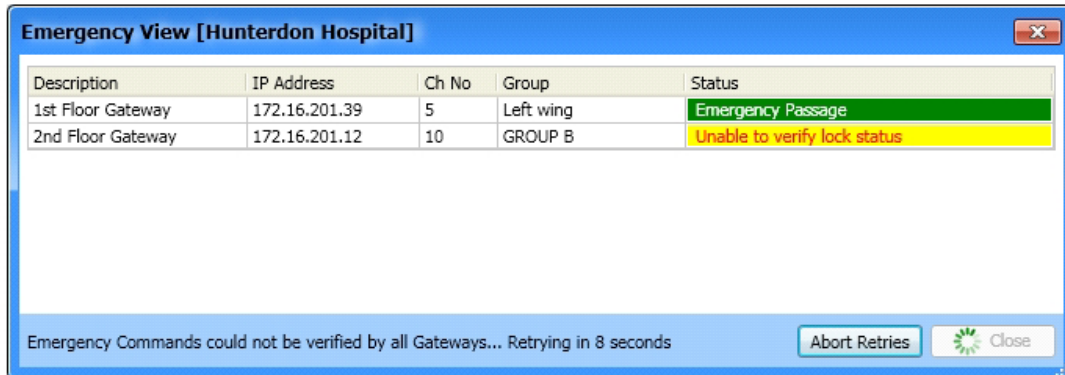
# Emergency > Emergency Passage

Selecting **Emergency Passage** sends a command to all Gateways (in the selected Emergency Groups) to immediately unlock all of their assigned wireless locks, thus un-securing the protected doors to allow passage. In an Emergency Passage state, User credentials are no longer required to allow passage. **Please use caution when using this feature, and consider all implications of un-securing the protected doors.**

From the **Emergency Commands** screen, click the **Emergency Passage** button.



The following **Emergency View** screen appears:



Once all locks assigned to the Gateway receive the selected Emergency Command, the status will return "Emergency Passage" (highlighted green). In the above image, notice how the status of the second Gateway displays "Unable to verify lock status" highlighted in yellow. This indicates that one or more locks assigned to the Gateway may not have received the Emergency Command. Therefore, the **Emergency View** screen cannot be closed and the Emergency Command will be continuously re-tried until the **Abort Retries** button is intentionally clicked.

The following modes will be overridden by an **Emergency Passage** Command :

- Normal mode ("non-Emergency")
- Emergency Lock Down mode
- Locked mode (via keypad Function 46)
- Scheduled Locked Mode (via "lock" Schedule)

**Note:** Once in **Emergency Passage**, the wireless physical lock(s) may be placed in Locked mode manually (using keypad Function 49).

**For areas that must remain secure**, even in an Emergency Passage state, we recommend de-selecting the feature "**Lock Responds to Emergency Commands**" in the **Features** screen.

## Emergency Passage Indication

- **In DL-Windows:** At the bottom of the DL-Windows "Main Screen", a bar will flash from red to yellow with the text "**Emergency Passage**" blinking continuously until a subsequent "Return to Normal" command is received (see image at the bottom of this page).

- **At Physical Lock:** Red LED blinks once every two seconds.

**IMPORTANT:** Threats such as fire emergencies, bomb threats or the release of hazardous substances within a protected premises may require an "Emergency Passage" Command to allow for a facility evacuation.

Other threats such as terrorist attacks, hostile intruder situations, the outdoor release of hazardous substances, tornado emergencies and other life-threatening events, may require an "Emergency Lock Down" - the opposite of a facility evacuation.

It is strongly advised that all facilities develop separate Emergency Lock Down and Emergency Passage procedures appropriate for the specific premises, and these Emergency procedures be frequently practiced and continually refined.

Emergency Passage

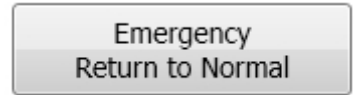
Ready

12/3/2013 1:57:05 PM

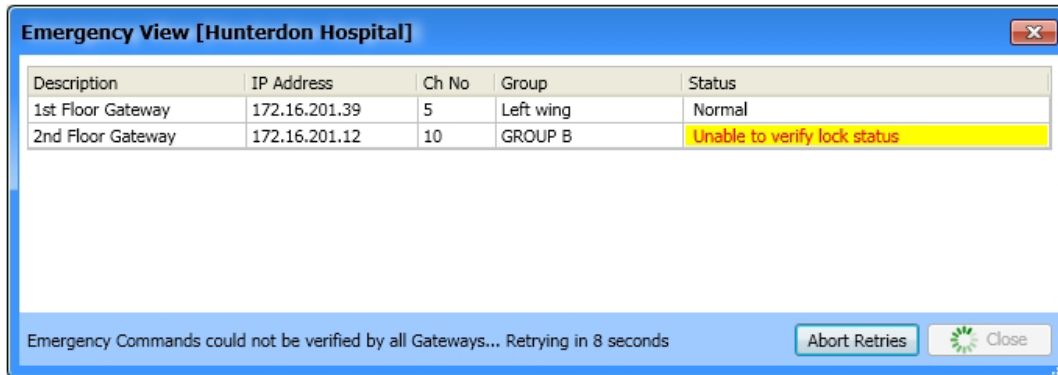
# Emergency > Emergency Return to Normal

Selecting **Emergency Return to Normal** sends a command to all Gateways (in the selected Emergency Groups) to immediately revert all assigned locks to the state they were in prior to the initiation of the Emergency command. For example, if the lock was in an unlocked state due to a Schedule, and a subsequent Emergency Lock Down was initiated, the **Emergency Return to Normal** command will revert the lock back to its original unlocked state.

From the **Emergency Commands** screen, click the **Emergency Return to Normal** button.



The following **Emergency View** screen appears:



Once all locks assigned to the Gateway receive the selected Emergency Command, the status will return "**Normal**". In the above image, notice how the status of the second Gateway displays "**Unable to verify lock status**" highlighted in yellow. This indicates that one or more locks assigned to the Gateway may not have received the Emergency Command. Therefore, the **Emergency View Screen** cannot be closed and the Emergency Command will be continuously re-tried until the **Abort Retries** button is intentionally clicked.

The following modes will be overridden by an **Emergency Return to Normal** Command :

- **Emergency Lock Down** mode
- **Emergency Passage** mode

**Warning:** To not use Emergency Commands to "toggle" Passage Mode, as it will severely impact battery life.



# Emergency Commands > Set Emergency Groups

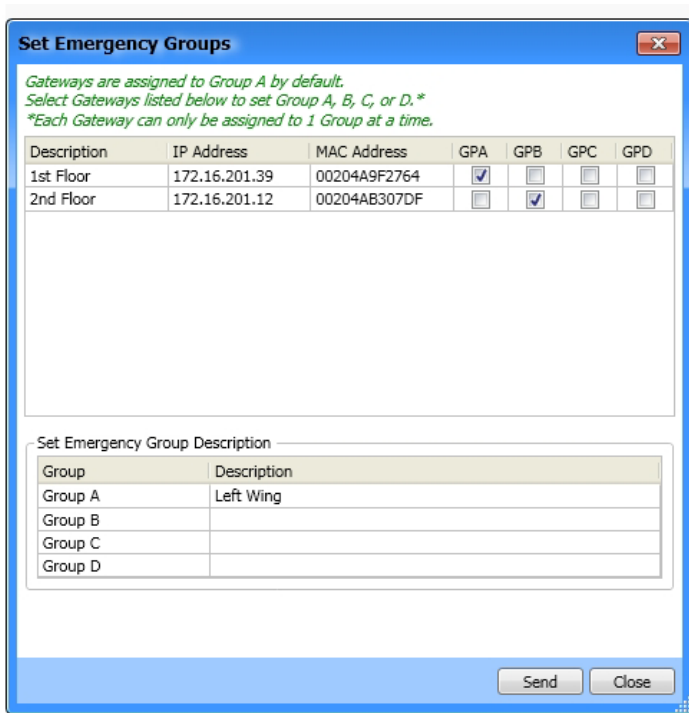
As mentioned in the previous section, each Gateway added to an Account is placed into Emergency "GROUP A" by default. This is done to ensure that Gateways will communicate with each other in an Emergency, without the use of DL-Windows (the Emergency initiated via the keypad). **Note:** Access to the **Set Emergency Groups** screen (from the **Emergency Command** screen or from **Gateway Configuration > Tools** menu) is disabled when only one Gateway exists in the Account.

In addition, Emergency Grouping is available to separate Gateways (and therefore their assigned locks) intentionally. For example, to prevent a Gateway whose locks control a secure location from receiving an Emergency Command, place the Gateway into "GROUP B"; thus the User may selectively decide via the **Emergency Command** screen, which Group(s) will receive the Emergency Command.

It is also in the **Set Emergency Groups** screen where you may configure the individual description text reflected in the **Emergency Command** screen of the Emergency Group (replacing "GROUP A" with another description).

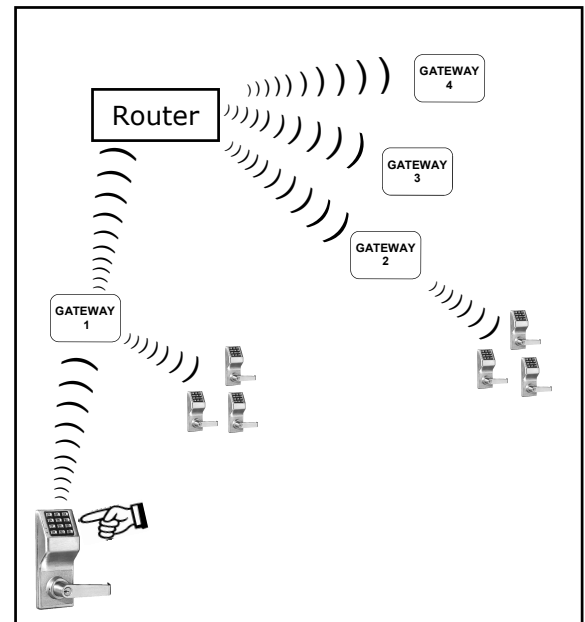
In the **Emergency Command** screen, click the **Set Emergency Groups** button to open the **Set Emergency Groups** screen. The **Set Emergency Groups** screen may also be accessed from **Gateway Configuration > Tools > Set Emergency Groups**.

Set Emergency Groups



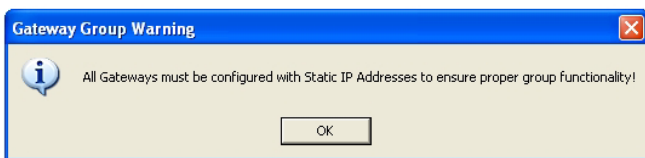
communication between Gateways, each Gateway must possess the static IP address of every *other* Gateway in the Account. The static IP address "table" is distributed to each Gateway in the Account upon:

- The addition of a new Gateway to the Account
- The removal of a Gateway from the Account
- A manual Emergency Group change



## Prerequisite

The following message appears any time the **Set Emergency Groups** screen is accessed:



## How it Works

When an Emergency Command is initiated from a keypad, the Command is disseminated to all Gateways, and their locks, in the Account. See diagram at right. To allow


The diagram above illustrates how Emergency Commands are distributed: Initiating an Emergency Command at the lock keypad causes the keypad to send the Emergency Command to its associated Gateway (named "Gateway 1"). "Gateway 1" then sends the Emergency Command to all locks assigned to "Gateway 1". "Gateway 1" then sends the same Emergency Command to each Gateway IP address listed in its static IP address "table" via the Router. With each Gateway receiving the Emergency Command from "Gateway 1", each of these Gateways can then send the Emergency Command to each of its assigned locks. Notice that DL-Windows is not needed to disseminate Emergency Commands and therefore not shown in this diagram.

# Emergency Commands > Set Emergency Groups (cont'd)

## Setting Emergency Groups

Emergency Group association of any Gateway may be intentionally changed from "GROUP A" to another Group (GPB, GPC or GPD). **Note:** A single Gateway can only be assigned to one Emergency Group at a time. To change a Gateway assignment to another Group, click to highlight the desired Gateway, then click the desired Emergency Group checkbox.

GPA	GPB	GPC	GPD
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**Note:** Every Gateway MUST have an association to an Emergency Group.

After making selections, click the **Send** button, and the new Group associations will be distributed to the Gateways.

## Setting Emergency Group Descriptions

The default Emergency Group names ("GROUP A", "GROUP B", etc.) may be changed as desired. The new Emergency Group name will then be reflected in the **Emergency Command** screen. To modify the name, in the **Set Emergency Groups** screen, double-click in the **Description** field of the desired Group, and type the new Emergency Group description name (maximum 16 characters).

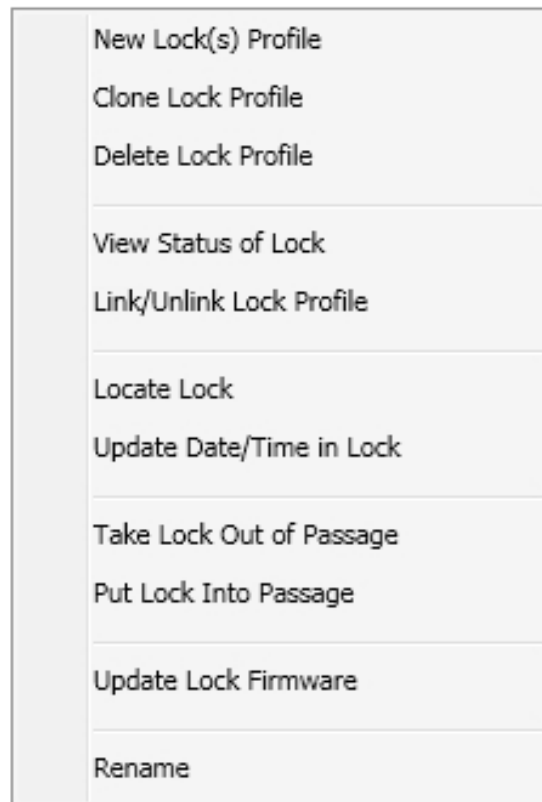
Group	Description
Group A	<input type="text"/>
Group B	<input type="text"/>
Group C	<input type="text"/>
Group D	<input type="text"/>

When finished making changes to the Emergency Group descriptions, click **Close** to save and exit the screen (description changes do not require the use of the **Send** button).

# Networx Lock Right-Click Profile Menu

For wireless locks, additional options are available for Networx Lock Profiles. In the Account List area, click the Account, then click the small "+" sign next to the "blue file cabinet" icon, and all Lock Profiles in the Account appear. Click the desired Lock Profile (denoted by the "padlock" icon) then right-click to display the right-click menu shown below.

**Note:** The first three items listed (plus "Rename") in this right-click menu (shown below) are items that also exist for non-wireless locks. For information regarding these menu items, see OI382.



- **New Lock(s) Profile** (see OI382)
- **Clone Lock Profile** (see OI382)
- **Delete Lock Profile** (see OI382)
- **View Status of Lock** (page 46)
- **Link / Unlink Lock Profile** (page 47)
- **Locate Lock** (page 48)
- **Update Date / Time in Lock** (page 48)
- **Take Lock Out of Passage** (page 48)
- **Put Lock Into Passage** (page 49)
- **Update Lock Firmware** (page 49)
- **Rename** (see OI382)

# Right-Click Menu > View Status of Lock

In the Account List area, click to highlight a Lock Profile, then right-click and select **View Status of Lock** from the menu that appears. Upon selection, the **Lock Status** is updated and retrieved, and displays various attributes of the selected lock. **Note:** Lock must be Linked to a Lock Profile in order to view the **Lock Status** screen.

## Lock Description

Displays the name of the selected Lock Profile.

## Lock Type

Specifies the model of the Trilogy Networx™ series locking device, such as "PDL6100", "DL6100" or "PL6100".

## Serial Number

Displays the lock's unique serial number assigned and programmed into the lock firmware at the factory. Each Networx lock is identified in the system by this unique serial number.

## Gateway

Displays the name of the Gateway to which the selected physical lock is assigned.

## IP Address

Displays the IP address of the Gateway to which the physical lock is assigned.

## GTW Rx

Indicates the radio transmission strength, as measured between the Gateway to the physical lock. A **higher** number indicates **stronger** signal.

## LCK Rx

Indicates the radio transmission strength, as measured between the physical lock to the Gateway. A **higher** number indicates **stronger** signal.

## Firmware Version

Indicates firmware source code edition of the selected physical lock.

## Battery

Displays the status of the battery powering the physical lock. If battery status cannot be retrieved, "**Unknown**" will be displayed.

## Lock Status

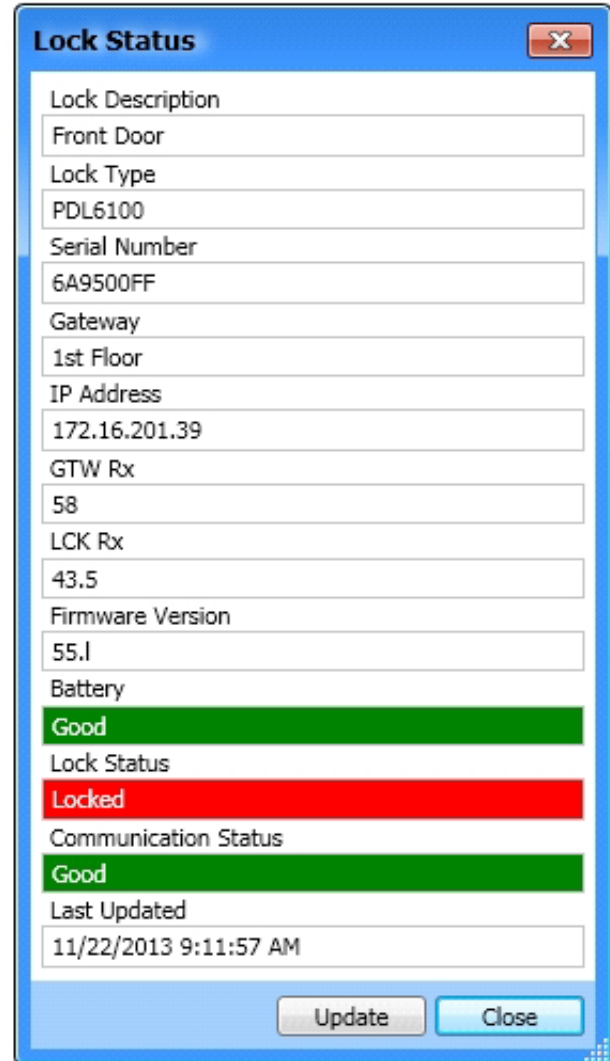
Indicates the latest condition of the physical lock (i.e. "Locked", "Passage", etc.). If status is unknown or unable to be retrieved, "Communication Error" will be displayed.

## Communication Status

Indicates the integrity of the communication link between the physical lock and the Gateway. If status is unknown or unable to be retrieved, "Communication Error" will be displayed.

## Last Updated

Displays the date and time of the latest lock status update.



The screenshot shows a window titled "Lock Status" with a close button (X) in the top right corner. The window contains the following fields and values:

Lock Description	Front Door
Lock Type	PDL6100
Serial Number	6A9500FF
Gateway	1st Floor
IP Address	172.16.201.39
GTW Rx	58
LCK Rx	43.5
Firmware Version	55.1
Battery	Good
Lock Status	Locked
Communication Status	Good
Last Updated	11/22/2013 9:11:57 AM

At the bottom of the window, there are two buttons: "Update" and "Close".

## Update (button)

Click to request an updated lock status from the physical lock. All fields will be refreshed upon lock status retrieval.

# Right-Click Menu > Link / Unlink Lock Profile

In the Account List area, click to highlight a Lock Profile, then right-click and select **Link / Unlink Lock Profile** from the menu that appears. Upon selection, a condensed version of the **Link / Unlink Lock Profile** screen appears. For detailed information about Linking physical locks to Lock Profiles, see "**LINKING PROCEDURE**" on the bottom of page 14.

## Lock Description

Displays the name of the selected Lock Profile.

## Currently Linked To

Displays the physical lock's serial number, the Gateway Description, and the Gateway's IP address to which the physical lock is currently Linked. **Note:** The information in this field is only displayed when the physical lock is Linked to a Lock Profile.

## Available Serial Numbers

This pull-down list displays the lock serial numbers of all physical locks of the same lock model (Lock Type) discovered by all Gateways in the current Account. Each lock serial number is unique and assigned to the physical lock at the factory.

## Link (button)

Click this button to "Link" the selected Lock Profile (**Lock Description** field) with the selected physical lock serial number (from the **Available Serial Numbers** pull-down list).

## Unlink (button)

Click this button to remove the Link between the physical lock and the Lock Profile. Note that after the Link is removed, the physical lock serial number previously displayed in the **Currently Linked to** field is then displayed in the **Available Serial Numbers** pull-down list ready for Linking.

**Link/Unlink Lock Profile [Hunterdon Hospital]**

*To link, select an available serial number and then click 'Link'*

Lock Description  
Pharmacy Closet

Currently Linked To  
8A188325 : 2nd Floor - 172.16.201.12

Available Serial Numbers  
F65F0156 : 1st Floor - 172.16.201.39

Link Unlink Close

## Right-Click Menu > Locate Lock

In the Account List area, click to highlight a Lock Profile, then right-click and select **Locate Lock** from the menu that appears. Upon selection, the **Locate Time** screen appears where you can set the duration of time (in seconds) for the selected lock to beep and flash its red LEDs. This option is typically used when you wish to find the physical lock or to confirm the wireless connection is operational. **Note:** The physical lock may be located even if it is not Linked to a Lock Profile.

### Locate time in seconds

Click the pull-down menu to set the duration of time (in seconds) for the selected lock to beep and flash its red LEDs. Up to 255 seconds (4 minutes 15 seconds) can be selected; default duration is 30 seconds.

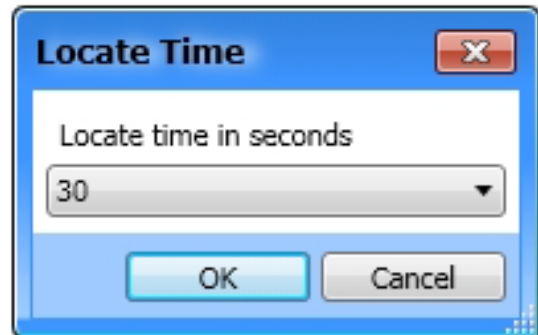
### OK (button)

Click **OK** and the physical lock will beep and flash its red LEDs for the selected duration.

### Cancel

Click to exit without requesting the locate Action.

**Note:** All locks on a Gateway may be sent the locate command (**Gateway Configuration > Actions > Locate All Locks on Gateway**). For more information, see page 27.



## Right-Click Menu > Update Date / Time in Lock

In the Account List area, click to highlight a Lock Profile, then right-click and select **Update Date / Time in Lock** from the menu that appears. Upon selection, a command is sent to the physical lock to update the date and time based upon the current time and date settings of the PC running DL-Windows.

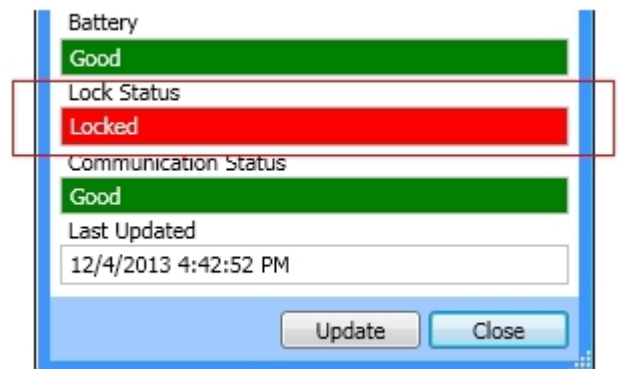
## Right-Click Menu > Take Lock Out of Passage

In the Account List area, click to highlight a Lock Profile, then right-click and select **Take Lock Out of Passage** from the menu that appears. Upon selection, a command is sent to the physical lock to change its state to "locked" ("secured"). The **Lock Status** screen will automatically appear, displaying the updated **Lock Status** ("Locked").

**TIP:** For more information about Passage Mode and "Passage", see OI382.

**IMPORTANT:** If the selected physical lock is in an Emergency state (**Emergency Passage** or **Emergency Lock Down**), this **Take Lock Out of Passage** menu item will be ignored if selected. Lock must be taken out of its Emergency state (**Emergency Return to Normal**) before it will accept this menu command.

For more information about Emergency Commands, see page 37 and page 38.





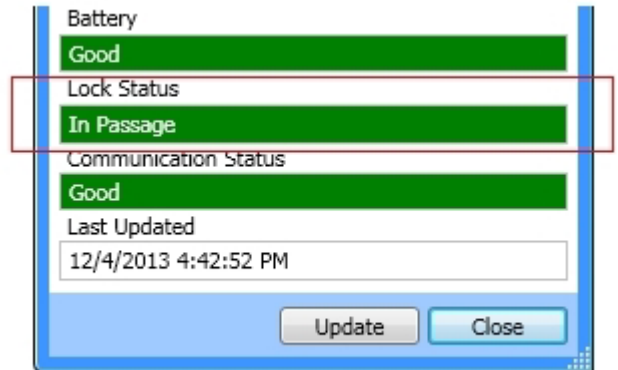
## Right-Click Menu > Put Lock Into Passage

In the Account List area, click to highlight a Lock Profile, then right-click and select **Put Lock Into Passage** from the menu that appears. Upon selection, a command is sent to the physical lock to change its state to "unlocked" ("unsecured"). The **Lock Status** screen will automatically appear, displaying the updated **Lock Status** ("In Passage").

**TIP:** For more information about Passage Mode and "Passage", see OI382.

**IMPORTANT:** If the selected physical lock is in an Emergency state (**Emergency Passage** or **Emergency Lock Down**), this **Put Lock Into Passage** menu item will be ignored if selected. Lock must be taken out of its Emergency state (**Emergency Return to Normal**) before it will accept this menu command.

For more information about Emergency Commands, see page 37 and page 38.

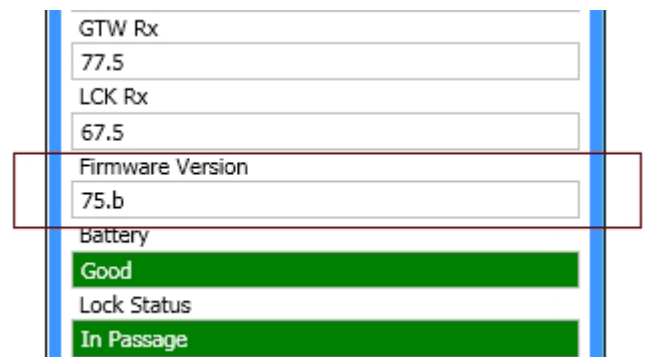
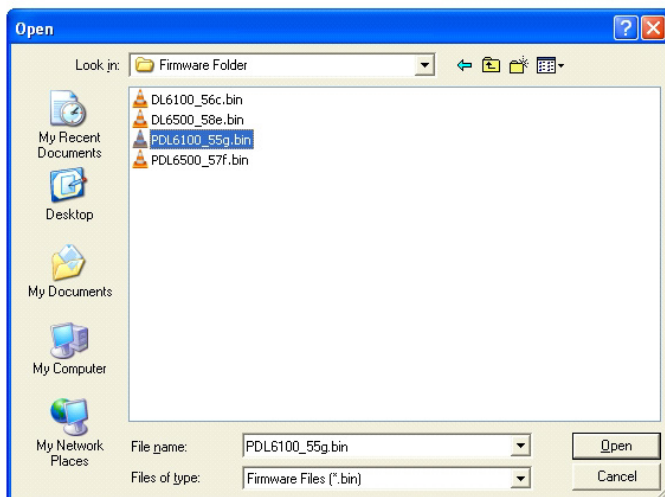


## Right-Click Menu > Update Lock Firmware

In the Account List area, click to highlight a Lock Profile, then right-click and select **Update Lock Firmware** from the menu that appears. Upon selection, the standard Windows **Open** dialog box appears (shown below), allowing you to browse for the binary ".bin" file containing the lock firmware update.

Select the lock firmware file based on correct Lock Type (model), then click **Open** to initiate the update process.

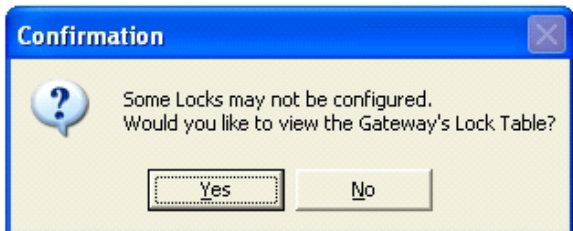
The system will check the integrity of the firmware, burn it into the physical lock memory, and reboot the lock. Upon completion, the **Lock Status** screen will automatically open. In the **Firmware Version** field (shown below), verify the updated firmware version of the physical lock. **Note:** Though not always necessary, it is recommended to send a full download to the lock ("**Send Profile**").



# TROUBLESHOOTING

## LOCK ASSIGNMENT FAILURE

*I discovered the lock successfully but after making the selection and selecting "Assign Lock", the following message appeared:*



This message appears after several configuration attempts by the Gateway. This indicates the physical lock did not successfully receive the configuration data (internal lock designation, a specific radio channel and security data), and therefore is unable to be assigned to the Gateway.

When this message appears, perform the following:

1. Click **Yes** to first view the locks that were not configured / assigned (by viewing the **Gateway Lock Table**).
2. In the **Gateway Configuration** screen, click **Tools > Send Lock Config Table to the Gateway**. This will attempt to re-configure the lock(s) that failed the initial assignment attempts. See page 22 for more information regarding the use of this feature.

## LOCK DISCOVERY FAILURE

*I am trying to discover my lock, but DL-Windows can't find it.*

If no locks are found after a discovery attempt:

1. Verify that the lock is reset ("defaulted"). See the programming instructions that came with your lock for reset procedure.
2. Verify the lock is installed within an acceptable radio range of the Gateway. Refer to WI2085 for information about installation and range.
  - Test range with the Networx Signal Meter tool (part AL-NSM).
3. Verify the Gateway has been mounted and physically installed as described in the instructions included with the unit.
4. In the **Gateway Configuration** screen, try increasing the **Number of Locks to Discover** (from the pull-down).

## EXISTING LOCK COMMUNICATION FAILURE

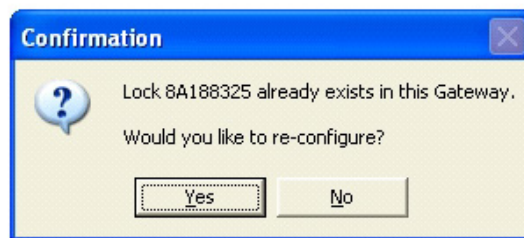
*I am no longer able to communicate with an existing Networx lock. It was working just fine, now it does not work!*

Before attempting to re-establish communication, consider the following:

1. Has something changed to affect the communication?
  - Is something blocking the radio signal from the Gateway to the lock?
  - Check the radio signal from the Gateway using the Networx Signal Meter tool (part AL-NSM). Is the signal strength very weak?
2. Is the lock still functioning? Find the physical lock and attempt to unlock by entering a working User Code. Are the key-presses even causing beeping sounds?

After verifying above, if the signal strength to that lock has always been strong and suddenly it is non-existent, the lock may have an internal failure. To reestablish a connection with the lock, perform the following steps:

1. Reset ("Default") the lock (see the programming instructions that came with the lock for the reset procedure).
2. Re-discover the lock. Upon assignment, the following message will display:



This message appears because the lock was never removed from the Gateway table, therefore the lock is simply re-configured (received configuration data, including its internal lock designation, a specific radio channel and security data).

**Note:** Re-Linking the lock is not required.

3. Download the Lock Profile to resume normal lock operation.

# TROUBLESHOOTING (cont'd)

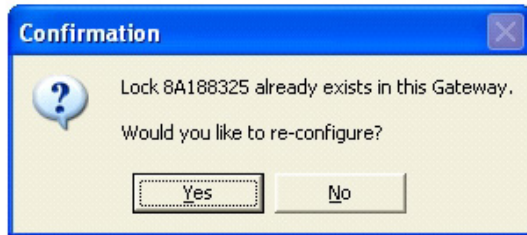
## WIRELESS LOCK MEMORY FAILURE

*My Schedules no longer function and/or my User Codes no longer unlock the door.*

It is difficult to lose the lock programming. For example, when replacing batteries, to erase the entire program, you actually need to disconnect the batteries and press and hold a keypad button for several seconds.

However, upon disconnecting the batteries, if a key is accidentally pressed, the lock may lose its time / date information. In this case, simply turn to page 48 and follow the procedure for the "**Right-Click Menu > Update Date / Time in Lock**".

If upon disconnecting the batteries, you accidentally hold down a key for several seconds and indeed lose the lock programming, the solution is to re-discover the lock and re-download the program. See section "**Discovering / Assigning Wireless Locks**" on page 13. **Note:** Keep in mind that although this physical lock has lost its programming, both DL-Windows and the Gateway still consider the state of the physical lock as unchanged (still powered up, assigned and in operation). The following popup will appear upon attempted re-assignment of the lock.



**Note:** Re-Linking the lock is not required.

## GATEWAY HIGHLIGHTED RED (UNREACHABLE)

*How do I re-establish communication with a Gateway that is highlighted in red (unreachable)?*

A working Gateway (discovered on the network, added to an Account and operational) is highlighted blue in the **Gateway Configuration** screen. When a working Gateway has subsequently lost communication with the network, the Gateway is highlighted red in the **Gateway Configuration** screen.

To re-establish a connection to the Gateway, click to select the red highlighted Gateway in the list, then click **Actions > Relocate Gateways (Displayed in red)**. See page 28 for detailed information about re-establishing a connection.

## COMPUTER CRASH!

*My computer running DL-Windows just crashed! I had a working system, complete with wireless locks, Gateways and a computer running DL-Windows--but that computer no longer works! What do I do?*

The Gateways and wireless locks are still up and running, and therefore they still hold the configuration data (its internal lock designation, a specific radio channel and security data) necessary to get your system working. The data may be retrieved from the Gateways using a new copy of DL-Windows on a new PC (assuming you are in possession of the Security Password). Refer to page 23, **Gateway Configuration > Tools > Import Gateway and Assigned Locks** to rebuild your database.

# Glossary


**ACCESS** = Entry into a restricted area.

**ASSIGN** = Add to hardware or specify a relationship. Can be used with User Codes and locks ("to *assign* User Codes to specific locks"), or with hardware identification ("the factory *assigns* each lock a unique serial number"), or a fixed wireless communication channel between locks and a Gateway ("locks *assigned* to a Gateway").

**AUDIT TRAIL** = A date/time stamped log of previous lock events.

## CLOCK

- **REAL TIME CLOCK** = An accurate built-in clock that allows date/time stamping of events. The clock can be slowed or speeded up to fine tune long term accuracy to within three minutes per year.

**CODE** = Numeric sequence of numbers (such as: 1234) entered at the keypad. If Star-Enter-Key is required, must be followed by a  key.

**COM PORT** = A computer serial communications port used to communicate with the Lock and/or Data Transfer Module.

**COMMUNICATE** = To send or receive a transmission. To avoid the directionally confusing terms of "download" and "upload", the word "communicate" is used in this guide.

**CONFIGURE** = To "assign" (add) discovered physical locks to a Gateway (by sending the "Lock Config Table" to the selected Gateway). Configuring ensures a fixed wireless communication channel exists between selected physical locks and a selected Gateway.

The **Gateway Configuration** screen allows you to select a Gateway and allow that Gateway to discover physical locks; these physical locks can then be assigned to that selected Gateway. When the **Use Selected Locks** button is clicked (in the "**DISCOVERED LOCKS**" POPUP), the Gateway sends "configuration data" to the selected locks. This "configuration data" contains items (such as an internal lock designation, a specific radio channel and security data) that are all embedded in what is called a "Lock Config Table". This "configuration data" instructs the physical lock(s) to communicate ONLY with that Gateway and prevents other Gateways from communicating with the physical lock(s).

In short, the Gateway tries to "configure" the selected physical locks by assigning the selected physical

locks to the Gateway.

**CREDENTIAL** = A generic word used to indicate a PIN number pressed into a lock keypad, or a proximity card or proximity keyfob.

**DATA TRANSFER MODULE** = A device that permits transfer of program / data between a computer and the lock.

**DATE** = Month, Day and Year entered as MMDDYY.

**DAY OF WEEK** = Sunday through Saturday.

**DEFAULT** = "Default" settings are the original settings that were set at the factory; in other words, it is the lock's original factory condition when the lock was first taken out of its box. The default settings are permanently encoded within the lock's fixed memory, and when the lock is first started, or when power is removed and re-applied, the original factory default settings are re-loaded and take effect.

**DELETE** = Used interchangeably with "Remove". User Codes (PINs) and proximity credentials can exist (occupy a User Number) within the lock programming, but are removed when "deleted" (thus the entry of a non-existent PIN does *not* allow access). Similarly, when used with DL-Windows Operators and Administrators, "delete" describes an Operator or Administrator who's **Name**, **Full Name**, **Type** and **Password** was removed from DL-Windows.

**DHCP** (Dynamic Host Configuration Protocol) = Automatic assignment of IP addresses to devices that are connected to a network. It eliminates having to manually assign fixed IP addresses.

**DISABLE** = User Codes (PINs) and proximity credentials can exist (occupy a User Number) within the lock programming, but can be rendered inoperative via Schedule, download or keypad programming (PIN entry does not allow access). Similarly, when used with DL-Windows Operators and Administrators, "disable" describes an Operator or Administrator who's **Name**, **Full Name**, **Type** and **Password** exist within DL-Windows but is rendered inoperative. Contrast with "enable," which means active and operational.

**DISCOVER** = To "discover" Gateways, the system searches for Gateways not yet added to an Account; to "discover" locks, the selected Gateway searches for locks not yet assigned to Gateways.

**DOWNLOAD** = See **COMMUNICATE**.

# Glossary (cont'd)

**EMERGENCY COMMANDS** = For use only with the Trilogy Networx wireless network, wireless commands can be sent to all wireless locking devices in an Account during a crisis or other urgent situation: "**Emergency Lock Down**", to lock all doors in the Account; "**Emergency Passage**", to unlock all doors in the Account; and "**Emergency Return to Normal**", to revert all assigned locks to the state they were in prior to the initiation of the Emergency command.

**EMERGENCY GROUP** = Upon the addition of each Gateway into an Account, the Gateway is automatically placed into an Emergency Group ("**GROUP A**" by default). This is done so that upon the initiation of an Emergency Command, **ALL** Gateways in the Emergency Group (and their assigned locks) will respond to Emergency Commands issued from DL-Windows. In addition, the automatic placement of a new Gateway into an Emergency Group allows for keypad-initiated Emergency Commands to lock down an entire system from a single wireless lock.

**ENABLE** = See **DISABLE**

**ERASE** = See **DELETE**

**EVENTS** = Recorded lock activity.

**FIRMWARE** = The software programming that runs internally within the physical lock and Gateway circuitry, containing the instructions that these devices use to perform their various functions. Firmware can be updated, if necessary.

**FUNCTION** (also called **Programming Functions**) = The numbers used to program lock features (enabling/disabling Users, User Groups, Passage Mode, Schedules, etc.).

**GROUP** = See **EMERGENCY GROUP**



**GTW Rx** = Indicates the radio transmission strength, as measured between the Gateway to the physical lock. A **higher** number indicates **stronger** signal.

**GUARD TOUR** = A *Guard Tour Code* is used to log the movement of a security guard as he or she makes rounds from one assigned guard tour station to the next. A *Guard Tour Code* is used to log the movement of a security guard as he or she makes rounds from one assigned guard tour station to the next. Entering the User 299 code provides precise verification and accountability of a guard's movements

by logging the location with a time/date stamp in the Event Log (Audit Trail).

**IMPORT** = When the Account information stored in DL-Windows is lost (such as with a stolen laptop)--AND--the DL-Windows backup files are either non-existent, inadequate or lost, the "Import" options can be used to rebuild an existing wireless system using the data stored inside the onboard memory of the installed Gateway device(s).

**IP ADDRESS** = The IP (Internet Protocol) address is a unique address of a device (such as a computer or a Gateway) connected to a TCP/IP corporate Intranet. IP addresses are written as four groups of numbers separated by periods; these groups are called "octets". IP addresses can be permanent ("static") or dynamically assigned (by DHCP) when a device, such as a Gateway, is powered.

**KEYPAD** = 10-numeric keys,  and special  key.

**KEYPAD PROGRAMMING** = Ability to program the lock through the keypad.

**KEYPRESS** = Pressing a button on the lock's keypad.

**LCK Rx** = Indicates the radio transmission strength, as measured between the physical lock to the Gateway. A **higher** number indicates **stronger** signal.

**LINK** = In DL-Windows, the word "Link" is used to describe the specific action of associating a Lock Profile to the serial number of the physical lock installed on the door.

**LOCATE** =

- **With physical lock(s)**, the Locate command causes the physical lock to "beep" and flash its LED (helpful when you wish to find the physical lock or confirm the lock's wireless connection is operational).
- **When used with a Gateway**, refers to re-discovering a "lost" Gateway device on the network. Used when an operational Gateway has lost its network connection, and appears highlighted red in the **Gateway Configuration** screen.

**LOCK** = A generic word used to indicate one of the many Alarm Lock locking devices that can be purchased, including devices such as the DK series keypads that trigger other locking devices.

# Glossary (cont'd)

**LOCK CONFIG TABLE** = When a Gateway is "discovered" and added to an Account, DL-Windows sends a **Lock Config Table** which contains the assigned (or unassigned) lock data stored in the Gateway memory. The table is a database structure that is designed to hold all physical lock data (serial numbers, etc.).

**LOCK PROFILE** = See **PROFILE**

**LOCK ID** = Identification of each door with a specific number--or in other words, a number representing an individual lock within an Account.

**LOCK TYPE** = Specifies the model of the Alarm Lock locking device, such as "PDL6100", "DL6100" or "PL6100".


**LOG** = See... **AUDIT TRAIL**.

**PASSAGE** = Allow anyone to pass through the door without a User Code or proximity credential (door is unlocked).

**PHYSICAL** = Same as "**Real**". Tangible, not virtual. See **VIRTUAL**.

**PROFILE** = "**Lock Profiles**" may also be called "Lock Programs" or "Virtual Locks". A lock "Profile" can be thought of as a "virtual" lock, created within DL-Windows, that contains all of the instructions that a "real" ("physical") lock uses to perform its various functions. Use DL-Windows to create a lock "Profile" on your computer, then transfer and store the "Profile" in the memory of the "real" lock. The lock "Profile" is essentially a computer database file that maintains User Codes, Features, Time Zones and Schedules. When creating these virtual lock Profiles, you are also designing the entire virtual system--conceptualizing which doors will have which locks, adding User names and allowing or restricting access to the virtual locks by the various Users in the Account.

**PROXIMITY CREDENTIAL** = See **CREDENTIAL**

**PROGRAM MODE** = A mode allowing program/data to be entered through the keypad. Only specific Users can program a lock manually, by entering their USER CODE, followed by the  key. To exit program mode, hold any key until repeated beeps are heard.

**PROXIMITY CARDS** = See **CREDENTIAL**.

**REAL** = Same as "**Physical**". Tangible, not virtual. See **VIRTUAL**.

**SCHEDULE** = A programmed operation (enable / disable, lock / unlock, etc.) on a specific day (Sunday through Saturday) and time.

**SUBNET** (SUBNETwork) = To improve security and processing performance, network administrators often divide their corporate Intranets into interconnected but separate segments called "subnets". Subnets also allow multiple users to access the Intranet with the same subnet address. A router is typically used to allow network traffic to pass between subnets.

**SUBNET MASK** = The IP protocol makes use of a Subnet Mask to more efficiently route packets to their correct network destinations. When a Gateway receives a data packet, the Subnet Mask indicates how many bits of the packet's destination address are to be used for routing and which bits are to be "masked" (ignored). The Subnet Mask can be thought of as a "filter" that allows the system to ignore unnecessary information, thus increasing efficiency. This information must be obtained from your network administrator.

**TIME** = Hours and Minutes in the HHMM format.

**TIME/DATE STAMP** = A recorded date and time that an event occurred.

**TIMEOUT** = Immediate operation for a specified number of hours.

**TYPE** = See **LOCK TYPE**.

**UPLOAD** = See **COMMUNICATE**.

**USER** = A person that has their personal information typed into the **Global Users** screen, and is assigned a User Code (PIN) or proximity credential (where applicable). This User is then added to (enabled within) Lock Profiles, as necessary.

**VIRTUAL** = Simulated on a computer. DL-Windows allows you to create a "Lock Profile" that can be thought of as a "virtual" lock, created within DL-Windows, that contains all of the data that a "real" (physical) lock uses to perform its various functions. When creating these "virtual" lock Profiles, you are also designing the entire "virtual" system--conceptualizing which doors will have which locks, adding User Names and allowing or restricting access to the virtual locks by the various Users in the Account. Later, you will "Link" these lock Profiles with the real locks installed on the doors.

# NOTES

# ALARM LOCK LIMITED WARRANTY

ALARM LOCK SYSTEMS, INC. (ALARM LOCK) warrants its products to be free from manufacturing defects in materials and workmanship for twenty four months following the date of manufacture. ALARM LOCK will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges, environmental wear and tear, normal maintenance expenses, or shipping and freight expenses required to return products to ALARM LOCK. Additionally, this warranty shall not cover scratches, abrasions or deterioration due to the use of paints, solvents or other chemicals.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF ALARM LOCK.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period.

IN NO CASE SHALL ALARM LOCK BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to ALARM LOCK. After repair or replacement, ALARM LOCK assumes the cost of returning products under warranty. ALARM LOCK shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. ALARM LOCK will not be responsible for any dismantling, reassembly or reinstallation charges, environmental wear and tear, normal maintenance expenses, or shipping and freight expenses required to return products to ALARM LOCK. Additionally, this warranty shall not cover scratches, abrasions or deterioration due to the use of paints, solvents or other chemicals.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. ALARM LOCK neither assumes, nor authorizes any other person purporting to act on its behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall ALARM LOCK be liable for an amount in excess of ALARM LOCK's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

ALARM LOCK RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

**Warning:** Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. ALARM LOCK does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

ALARM LOCK is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to ALARM LOCK's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.