



DLX900 Programming Guide

Copyright © 2022 Carrier. All rights reserved. Specifications subject to change without prior notice.

This document may not be copied in whole or in part or otherwise reproduced without prior written consent from Carrier, except where specifically permitted under US and international copyright law.

Trademarks and patents Caddx, xGen, ZeroWire, NetworX, and logos are trademarks of Carrier. Hills Reliance XR and logos are trademarks of Hills Limited.

IOS is the registered trademark of Cisco Technology, Inc.

Android, Google, Google Play, and Google Home are registered trademarks of Google Inc.

iPhone, Apple, iTunes are registered trademarks of Apple Inc.

App Store is a service mark of Apple Inc.

Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Other trade names used in this document may be trademarks or registered trademarks of the manufacturers or vendors of the respective products.

Manufacturer PLACED ON THE MARKET BY:
Carrier Fire & Security Americas Corporation Inc.
13995 Pasteur Blvd
Palm Beach Gardens, FL 33418, USA
AUTHORIZED EU REPRESENTATIVE:
Carrier Fire & Security B.V.
Kelvinstraat 7, 6003 DH Weert, Netherlands

Product warnings and disclaimers



THESE PRODUCTS ARE INTENDED FOR SALE TO AND INSTALLATION BY QUALIFIED PROFESSIONALS. CARRIER FIRE & SECURITY CANNOT PROVIDE ANY ASSURANCE THAT ANY PERSON OR ENTITY BUYING ITS PRODUCTS, INCLUDING ANY "AUTHORIZED DEALER" OR "AUTHORIZED RESELLER", IS PROPERLY TRAINED OR EXPERIENCED TO CORRECTLY INSTALL FIRE AND SECURITY RELATED PRODUCTS.

For more information on warranty disclaimers and product safety information, please check <https://firesecurityproducts.com/policy/product-warning/> or scan the QR code.

Contact information www.firesecurityproducts.com/en/page/caddx

Contents

| | |
|---|--------|
| Important information | iii |
| Limitation of liability | iii |
| Product Warnings | iii |
| Warranty Disclaimers | iv |
| Disclaimer | v |
| Intended Use | v |
| Advisory messages | v |
| DLX900 Software | 1 |
| Installing DLX900 | 1 |
| Upgrading from DL900 | 1 |
| Login to DLX900 | 1 |
| Navigating the Main Window | 3 |
| Customer Window | 4 |
| Navigating the Menus | 5 |
| Control Panel Menu | 6 |
| Loading Control Panel Defaults | 6 |
| Devices Menu | 7 |
| Device Info | 8 |
| Download Menu | 9 |
| Reading Data | 10 |
| Sending Data | 10 |
| Tools Menu | 11 |
| Connecting to an Alarm Panel | 12 |
| Restrictions | 12 |
| Using Known IP Address / LAN Connection | 12 |
| Using UltraSync Connection | 14 |
| Programming with DLX900 | 16 |
| Programming Instructions for System Options | 16 |
| Programming Instructions for Permissions | 20 |
| Programming Instructions for Menus | 22 |
| Programming Instructions for Holidays | 24 |
| Programming Instructions for Users | 28 |
| Programming Instructions for Zones | 31 |
| Programming Instructions for Custom Zones | 34 |
| Programming Instructions for Areas | 37 |
| Programming Instructions for Schedules | 40 |
| Programming Instructions for Arm-Disarm | 43 |
| Programming Instructions for Communicator | 48 |
| Programming Instructions for UltraSync | 52 |
| Programming Instructions for Event Lists | 54 |
| Programming Instructions for Channels | 56 |
| Programming Instructions for Zone Reporting | 60 |
| Programming Instructions for System Event Reporting | 62 |

| | |
|--|-----------|
| Programming Instructions for Actions | 64 |
| Programming Instructions for Action Groups | 66 |
| Programming Instructions for Scenes | 68 |
| Programming Instructions for Outputs | 69 |
| Combining Actions with Schedules | 70 |
| Upgrading Firmware using DLX900 | 71 |
| FAQ | 73 |

Important information

Limitation of liability

To the maximum extent permitted by applicable law, in no event will Carrier be liable for any lost profits or business opportunities, loss of use, business interruption, loss of data, or any other indirect, special, incidental, or consequential damages under any theory of liability, whether based in contract, tort, negligence, product liability, or otherwise. Because some jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages the preceding limitation may not apply to you. In any event the total liability of Carrier shall not exceed the purchase price of the product. The foregoing limitation will apply to the maximum extent permitted by applicable law, regardless of whether Carrier has been advised of the possibility of such damages and regardless of whether any remedy fails of its essential purpose.

Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory.

While every precaution has been taken during the preparation of this manual to ensure the accuracy of its contents, Carrier assumes no responsibility for errors or omissions.

Product Warnings

YOU UNDERSTAND THAT A PROPERLY INSTALLED AND MAINTAINED ALARM/SECURITY SYSTEM MAY ONLY REDUCE THE RISK OF EVENTS SUCH AS BURGLARY, ROBBERY, FIRE, OR SIMILAR EVENTS WITHOUT WARNING, BUT IT IS NOT INSURANCE OR A GUARANTEE THAT SUCH EVENTS WILL NOT OCCUR OR THAT THERE WILL BE NO DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE AS A RESULT.

THE ABILITY OF CARRIER PRODUCTS, SOFTWARE OR SERVICES TO WORK PROPERLY DEPENDS ON A NUMBER OF PRODUCTS AND SERVICES MADE AVAILABLE BY THIRD PARTIES OVER WHICH CARRIER HAS NO CONTROL AND FOR WHICH CARRIER SHALL NOT BE RESPONSIBLE INCLUDING, BUT NOT LIMITED TO, INTERNET, CELLULAR AND LANDLINE CONNECTIVITY; MOBILE DEVICE AND OPERATING SYSTEM COMPATIBILITY; MONITORING SERVICES; ELECTROMAGNETIC OR OTHER INTERFERENCE, AND PROPER INSTALLATION AND MAINTENANCE OF AUTHORIZED PRODUCTS (INCLUDING ALARM OR OTHER CONTROL PANEL AND SENSORS).

ANY PRODUCT, SOFTWARE, SERVICE OR OTHER OFFERING MANUFACTURED, SOLD OR LICENSED BY CARRIER, MAY BE HACKED, COMPROMISED AND/OR CIRCUMVENTED AND CARRIER MAKES NO REPRESENTATION, WARRANTY, COVENANT OR PROMISE THAT ITS PRODUCTS (INCLUDING SECURITY PRODUCTS), SOFTWARE, SERVICES

OR OTHER OFFERINGS WILL NOT BE HACKED, COMPROMISED AND/OR CIRCUMVENTED.

CARRIER DOES NOT ENCRYPT COMMUNICATIONS BETWEEN ITS ALARM OR OTHER CONTROL PANELS AND THEIR WIRELESS OUTPUTS/INPUTS INCLUDING BUT NOT LIMITED TO, SENSORS OR DETECTORS UNLESS REQUIRED BY APPLICABLE LAW. AS A RESULT THESE COMMUNICATIONS MAY BE INTERCEPTED AND COULD BE USED TO CIRCUMVENT YOUR ALARM/SECURITY SYSTEM.

THE EQUIPMENT SHOULD ONLY BE OPERATED WITH AN APPROVED POWER ADAPTER WITH INSULATED LIVE PINS.

DO NOT CONNECT TO A RECEPTACLE CONTROLLED BY A SWITCH.

THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTOR SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

Warranty Disclaimers

CARRIER HEREBY DISCLAIMS ALL WARRANTIES AND REPRESENTATIONS, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING ANY IMPLIED WARRANTIES, THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(USA only) SOME STATES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. YOU MAY ALSO HAVE OTHER LEGAL RIGHTS THAT VARY FROM STATE TO STATE.

CARRIER DOES NOT MAKE ANY CLAIMS OR WARRANTIES TO YOU OF ANY KIND REGARDING ANY PRODUCT, SOFTWARE OR SERVICE'S POTENTIAL, ABILITY, OR EFFECTIVENESS TO DETECT, MINIMIZE, OR IN ANYWAY PREVENT DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR LOSS OF ANY KIND WHATSOEVER.

CARRIER DOES NOT REPRESENT TO YOU THAT ANY PRODUCT (INCLUDING SECURITY PRODUCTS), SOFTWARE, SERVICE OR OTHER OFFERING MAY NOT BE HACKED, COMPROMISED AND/OR CIRCUMVENTED.

CARRIER DOES NOT WARRANT THAT ANY PRODUCT (INCLUDING SECURITY PRODUCTS), SOFTWARE OR SERVICE MANUFACTURED, SOLD OR LICENSED BY CARRIER WILL PREVENT, OR IN ALL CASES PROVIDE ADEQUATE WARNING OF OR PROTECTION FROM, BREAK-INS, BURGLARY, ROBBERY, FIRE, OR OTHERWISE.

CARRIER DOES NOT WARRANT TO YOU THAT ITS SOFTWARE OR PRODUCTS WILL WORK PROPERLY IN ALL ENVIRONMENTS AND

APPLICATIONS AND DOES NOT WARRANT ANY PRODUCTS AGAINST HARMFUL ELECTROMAGNETIC INTERFERENCE INDUCTION OR RADIATION (EMI, RFI, ETC.) EMITTED FROM EXTERNAL SOURCES

CARRIER DOES NOT PROVIDE MONITORING SERVICES FOR YOUR ALARM/SECURITY SYSTEM ("MONITORING SERVICES"). IF YOU ELECT TO HAVE MONITORING SERVICES YOU MUST OBTAIN SUCH SERVICE FROM A THIRD PARTY AND CARRIER MAKES NO REPRESENTATION OR WARRANTY WITH RESPECT TO SUCH SERVICES INCLUDING WHETHER OR NOT THEY WILL BE COMPATIBLE WITH THE PRODUCTS, SOFTWARE OR SERVICES MANUFACTURED, SOLD OR LICENSED BY CARRIER.

Disclaimer

THE INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. CARRIER ASSUMES NO RESPONSIBILITY FOR INACCURACIES OR OMISSIONS AND SPECIFICALLY DISCLAIMS ANY LIABILITIES, LOSSES, OR RISKS, PERSONAL OR OTHERWISE, INCURRED AS A CONSEQUENCE, DIRECTLY OR INDIRECTLY, OF THE USE OR APPLICATION OF ANY OF THE CONTENTS OF THIS DOCUMENT. FOR THE LATEST DOCUMENTATION, CONTACT YOUR LOCAL SUPPLIER OR VISIT US ONLINE AT WWW.FIRESECURITYPRODUCTS.COM/EN/PAGE/CADDX.

This publication may contain examples of screen captures and reports used in daily operations. Examples may include fictitious names of individuals and companies. Any similarity to names and addresses of actual businesses or persons is entirely coincidental.

The illustrations in this manual are intended as a guide and may differ from your actual unit as Panel is continually being improved.

Intended Use

Use this product only for the purpose it was designed for; refer to the data sheet and user documentation. For the latest product information, contact your local supplier or visit us online at www.firesecurityproducts.com/en/page/caddx.

The system should be checked by a qualified technician at least every 3 years and the backup battery replaced as required.

Advisory messages

Advisory messages alert you to conditions or practices that can cause unwanted results. The advisory messages used in this document are shown and described below.

WARNING: Warning messages advise you of hazards that could result in injury or loss of life. They tell you which actions to take or to avoid in order to prevent the injury or loss of life.

Caution: Caution messages advise you of possible equipment damage. They tell you which actions to take or to avoid in order to prevent the damage.

Note: Note messages advise you of the possible loss of time or effort. They describe how to avoid the loss. Notes are also used to point out important information that you should read.

DLX900 Software

DLX900 is a tool for programming Panels. This software is installed on a PC with Microsoft Windows 7, 8, or 10. It features a graphical interface, allowing installers and Central Monitoring Stations to program and manage complex sites.

Customer details and all panel programming are stored in a local database on the computer. This allows companies to create standard templates for quicker programming of customer panels.

Installing DLX900

Contact your local technical support to obtain the latest version of DLX900 Software.

You will need administrator privileges to install DLX900.

Double click the installation file and select the correct region. This will affect the panels the software will support.

Upgrading from DL900

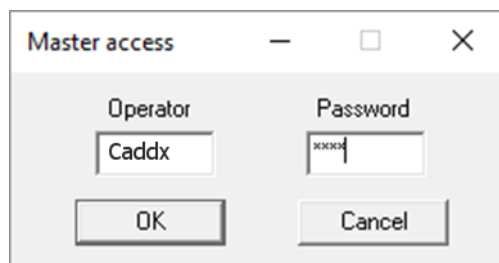
If DL900 has been installed previously, DLX900 can automatically import and upgrade the database. It is recommended you save a backup of your database and ensure you have a copy of DL900 in case you need to revert.

Once DLX900 is installed, right click the icon, click “More”, and select “Run as Administrator”

Login to DLX900

Default username and password for DLX900 is *Caddx 1234*.

Enter this twice (once for master access, once for operator access) to login.



You will be prompted to change the password if it is default. You must change the password.

To change the default accounts and passwords: click Program – Setup – Add/change Operators. Click the user then “Set Password”.

Password Requirements

Operator name and password may be up to 50 characters.

Password must contain:

- minimum 7 characters
- minimum 1 upper case character
- minimum 1 lower case character
- minimum 1 symbol
- minimum 1 number

Forgotten Passwords

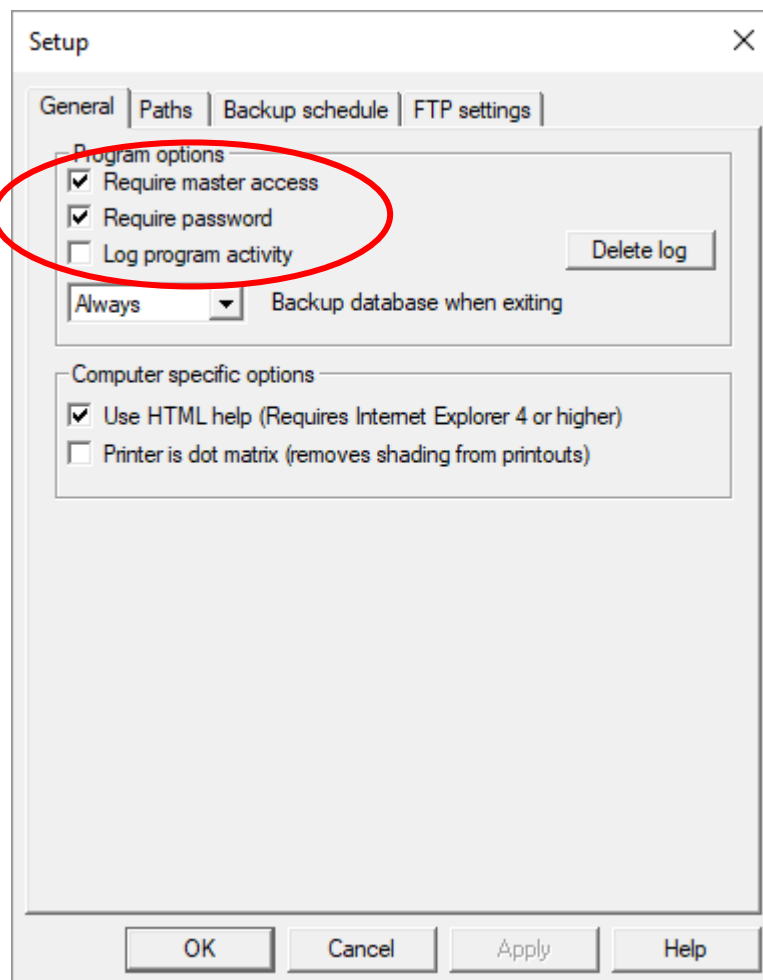
Please take care in recording the new operator and password. Access to the current DLX900 database is only possible with a correct operator and password.

Reinstalling DLX900 will not remove the password. However, deleting the database and reinstalling DLX900 will allow you to regain access to using DLX900 with a new empty database.

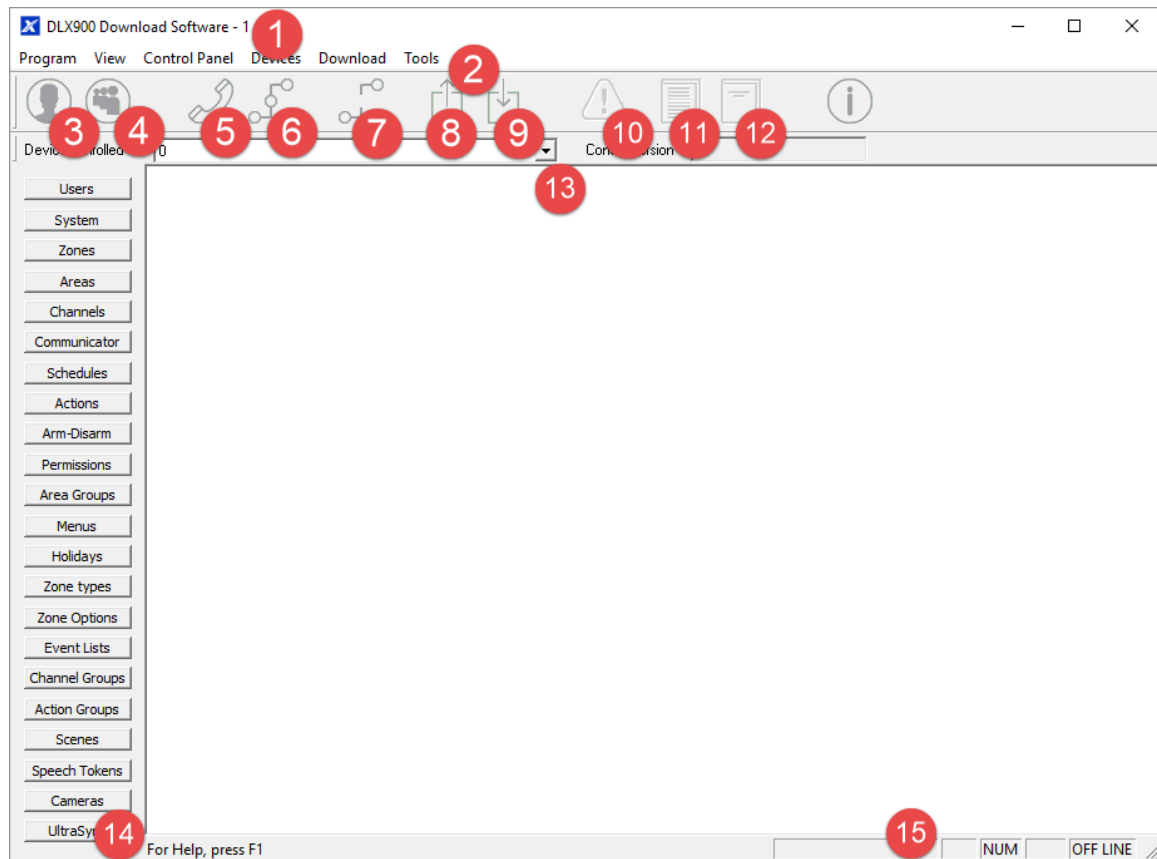
Users may create multiple operator/passwords. This may facilitate database recovery in the event the current account details are forgotten.

Disable Login

To enable or disable password prompt(s): click Program – Setup – Program Setup.



Navigating the Main Window



- (1) Window Title – displays currently selected customer's account number.
- (2) Menu Bar – Program contains settings for DLX900, View turns on/off Toolbar and Status Bar, View also has shortcut to the customer list, Control Panel displays all top-level programming menus for the currently selected customer's control panel, Devices displays all programmed expansion devices, Download displays connection commands, Tools displays DLX900 database management tools and Diagnostics.
- (3) View Customer – add/edit/delete customers, select customer to view.
- (4) View Customer List – show all customers in current DLX900 database.
- (5) Call control panel – use PSTN modem to connect to control panel.
- (6) Connect TCP/IP – connect to control panel using TCP/IP.
- (7) Disconnect – end current session and disconnect from control panel.
- (8) Send all data – send all programming menus from DLX900 to control Panel, excludes wireless transmitter and Z-Wave data.
- (9) Read all data – read all programming data from control panel into DLX900, including wireless transmitter and Z-Wave data.
- (10) View Status – view control panel system status (armed state, alarms, and troubles).
- (11) Read All Event Log – retrieve all event history.
- (12) Read 10 Events – retrieve last 10 items from event history.
- (13) Devices Enrolled – drop-down menu with shortcuts to enrolled expander devices.
- (14) Control Panel Menu – shortcuts to control panel settings, available on selected panels.
- (15) DLX900 Status – shows a progress bar of read and send commands, Caps Lock, Scroll Lock, Num Lock, and Online/Offline connection state to control panel.

Customer Window

Customer - 1111

Name Goto... 3 of 24

Address

City State Zip code

Account number Goto...

Contact phone Goto...

Contact phone 2 Goto...

Panel phone Reserved

Panel

Save

New Customer

Duplicate Customer

Delete

Connect TCP/IP

Connection Method

IP Address

IP Port

Serial Number

Web Access Passcode

Get Connect Info

Network Discovery

Installation Date

Last Diagnostic Date

Additional items >>

Each customer must have a unique Account Number.

Selecting a Customer

DLX900 will load programming for the currently displayed customer in any menus displayed. Select a customer by:

- Using the Up and down arrow buttons to navigate through your customers;
- Entering the customer's detail in the name or contact phone field, then click Goto;
- Clicking the Account number Goto, then enter the account number; or
- Clicking View Customer List, then click the customer displayed.

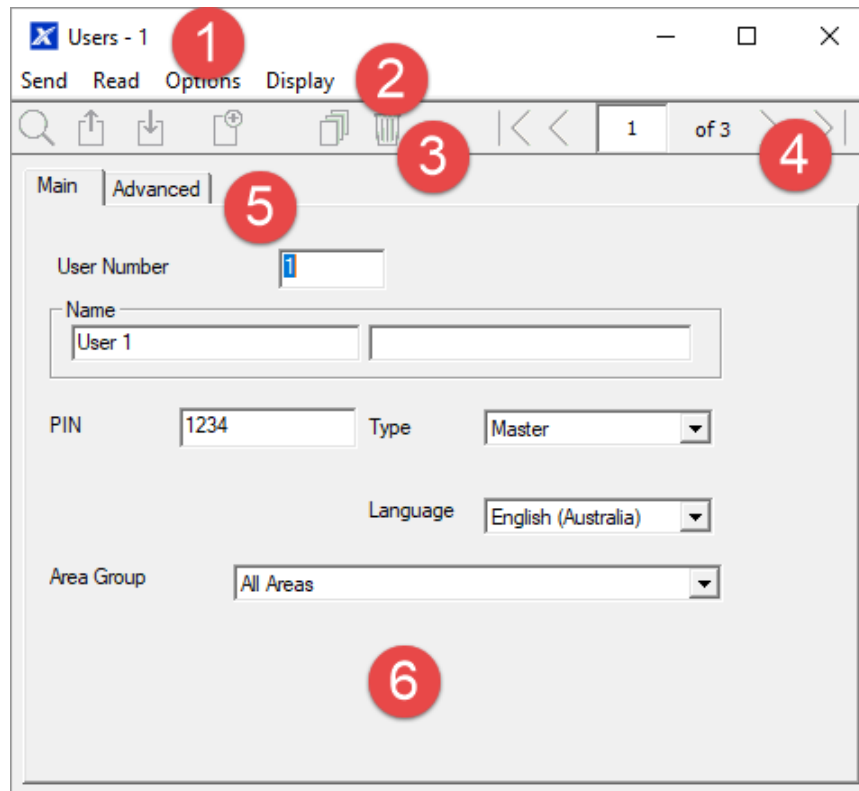
Duplicating a Customer

DLX900 allows easy duplication of customer programming for similar sites.

1. Select a customer with the programming to duplicate.
2. Click Duplicate Customer.
3. Enter a new Account Number.
4. Tick "Copy customer information" if you want the contact details and serial number of the panel to also be copied. This is useful if you are testing new programming for the same customer.
5. Click OK.

Navigating the Menus

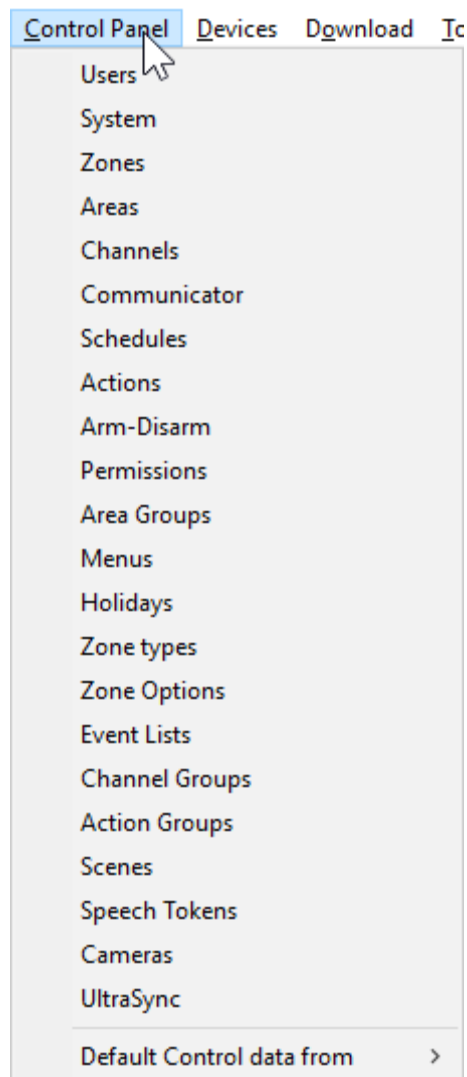
Each menu has a set of common elements:



- (1) Menu Name – displays the menu name and current customer's account number.
- (2) Menu Bar – commands to Send data to the panel, Read data from the panel, and Options to restore factory defaults for this menu.
- (3) Tool Bar – Search for customers, Send only this menu's data to the panel, Read only this menu's data from the panel, Add a new record, Copy the current record, and Delete the current record.
- (4) Navigation Buttons – jump to the first record, go back one record, enter a record number, see the number of records for the current menu, go forward one record, jump to the last record.
- (5) Sub-menu Tabs – these reflect the sub-menus in the Reference Guide.
- (6) Programming options – changes to these settings are saved immediately to the database, to make them "active" perform a Send command.

Control Panel Menu

This menu features all programming locations for the main panel. For supported models, these menus also appear on the left side of the Main Menu.



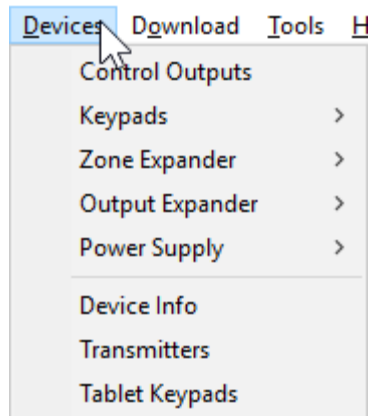
Loading Control Panel Defaults

DLX900 can load factory default data for the currently selected customer panel:

1. Click Control Panel.
2. Click Default Control data from – Factory defaults.

Devices Menu

The Devices Menu displays all expansion devices including keypads, input expanders, output expanders, power supplies, touchscreen tablets, wireless devices, and keyfobs.

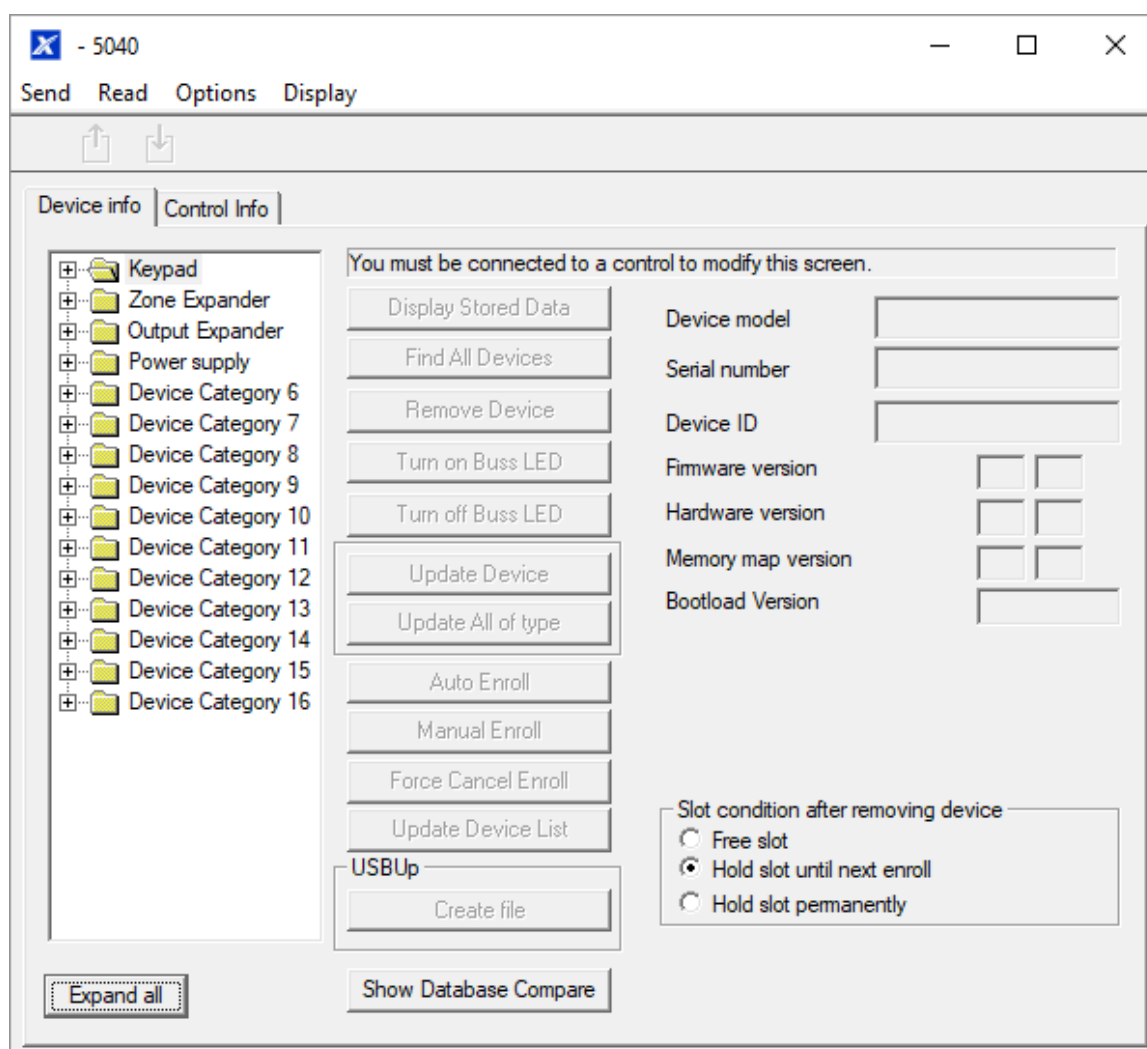


Each of these devices may have separate programming stored inside that device. This menu allows you access to those programming locations.

Programming is retrieved from all enrolled devices when you perform a Read All.

Device Info

Click Devices – Device Info to show all expansion devices:

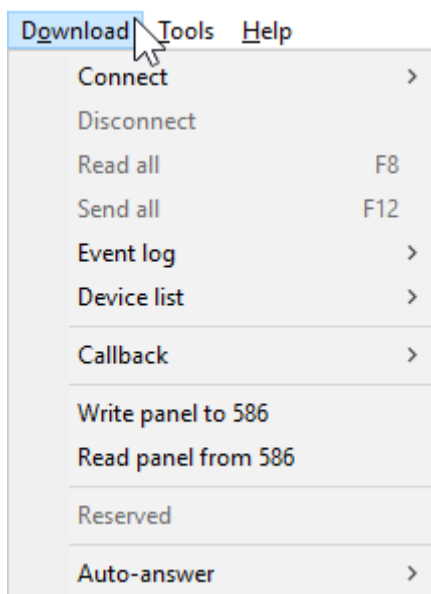


The Device Info menu allows:

- Adding and removing of devices – click Remove Device, Auto Enroll, Manual Enroll, or Add Device under the device category.
- Identification of devices – click Turn on / off Buss LED to flash an LED of the specific device.
- Re-ordering of devices – drag and drop the device to re-number it, use the “Slot condition after removing device” to determine if DLX900 should refresh all device numbering or to reserve the device number for future use.
- Display of device information including firmware and serial number.
- Access programmed data – select the device and click Display Stored Data, this is the same as accessing the device via the Devices Menu.
- Export of programming information for a specific device – select the device and click Create file. DLX900 will create a special file. This file can be copied to a USBUP and then inserted into a suitable device to program it without a computer.

- Export control panel information for use with USBUP – on the Control Info tab click Create file to save current panel programming to a special file. This file can be copied to a USBUP and then inserted into a Panel to program it without a computer.

Download Menu



This menu allows you to:

- Initiate a connection to the panel.
- Disconnect from a panel.
- Read all programming, including all connected expansion devices and backup copies where available.
- Send all programming to the panel.
- Read the event log.
- Initiate a callback session before download, where this feature is enabled on the panel.
- Write programming to a NX-586 / NX-588. This allows on-site programming of selected panels without the need for a computer.
- Read programming from a NX-586 / NX-588. This allows retrieval of panel programming from selected panels on-site without the need for a computer.
- Enable auto-answer for callback.

Reading Data

All programming located inside a customer panel can be retrieved and stored in the DLX900 database for further editing or backup purposes.

Reading All Data

To retrieve the contents of all control panel menus and store it in DLX900:

1. Select the customer you want to connect to.
2. Connect to the panel.
3. Click the Read All button on the toolbar. Alternatively, from any menu click Read – Read Control to only retrieve panel programming without data stored inside expansion devices.
4. Wait for the progress bar on the bottom right to complete. DLX900 will retrieve data from multiple menus, each will have its own progress bar.
5. Disconnect from the panel.
6. All data is now stored in your local database. Any changes made in DLX900 will not be reflected in the customer panel. To make changes “live”, follow the instructions on Sending All Data.

Note: Z-wave and Transmitter programming is NOT copied during this process.

Reading Data from a Selected Menu

Programming from a single menu can be retrieved from the control panel into DLX900:

1. Select a customer to connect to.
2. Connect to the panel.
3. Open the menu you wish to read.
4. Click Read – Read Menu.
5. Data from all tabs in the current menu will be read into DLX900. Wait for the progress bar on the bottom right to complete.
6. Disconnect from the panel.

Sending Data

Once programming has been created in DLX900, it must be sent to the panel using a “Send” command.

Sending All Data

To send the contents of all DLX900 menus to the control panel:

1. Select the customer you want to connect to.
2. Make all changes required to customer programming.
3. Connect to the panel.

4. Click the Send All button on the toolbar. Alternatively, from any menu click Send – Send Control.
5. Wait for the progress bar on the bottom right to complete. DLX900 will send data to multiple locations in the panel, each will have its own progress bar.
6. Disconnect from the panel.
7. All panel programming has been copied to the panel.

Sending Data from a Selected Menu

Programming from a single menu can be sent from DLX900 to the control panel:

1. Select the customer you want to connect to.
2. Connect to the panel.
3. Open the menu you wish to send.
4. Click the Send – Send Menu.
5. Data from all tabs in the current menu will be sent to the panel. Wait for the progress bar on the bottom right to complete.
6. Disconnect from the panel.

Tools Menu

This menu provides database management features to maintain DLX900. This includes:

- Compact Database – The database may grow in size over time with adding and removing of customers. Click this option to clean the database and make it smaller.
- Repair Database – DLX900 will check the database for any errors and repair them where possible.
- Backup Database – The database should be regularly backed up and copied off the computer to a secure location. DLX900 will regularly request to perform a backup of the database when you exit the program. To change the frequency of the backup request, click Program – Setup – Program Setup – Backup Schedule.
- Restore Database – The database can be restored to a new computer if required.
- Import Customers – Specific customers can be recovered from an existing database backup file. This will read all customers or a specific customer (account number) into the current database.
- Export Customers – Specific customers can be saved to a new database.
- Diagnostics – Display real-time communication data between the panel and DLX900.

Connecting to an Alarm Panel

DLX900 can connect to supported alarm panels using these methods:

- Using Known IP Address – allows quick connection to the panel while on-site and connected to the LAN. Normally the panel and laptop will be connected via Ethernet cable to a router. The Network Discovery feature can find the IP address for quick setup.
- Remote via UltraSync – remote connections are possible using the UltraSync servers to discover the panel settings. No IP addresses and port forwarding are required. You will need the serial number, Web Access Passcode, and Download Access Code.

Restrictions

Panels support a number of security features that can prevent connections using DLX900. Be aware of these:

- If Always Allow DLX900 is enabled then you will be allowed to connect, if Always Allow DLX900 is disabled then you must first put the panel into program mode using a valid PIN.
- If Download Access Code is set, DLX900 must be set to match this code. This code restricts DLX900 from upload / download to the panel.
- If Web Access Passcode is set, DLX900 must be set to match this code. This code prevents remote access via UltraSync. If you do not have this code, you can still use DLX900 over the LAN with known IP address.
- First time connections may be allowed to a panel if it is at factory default and Download Access Code, Web Access Passcode, and installer PIN codes have not been changed. This facilitates quick initial setup for panel programming.
- If the panel is not provisioned on UltraSync Portal, then UltraSync may not allow the connection. Check with your distributor on provisioning requirements for the panel you are installing.
- If callback is enabled, your computer must be at the callback IP address on the destination network.
- Upload / Download over cellular is slower than panels connected via Ethernet / Wi-Fi to the customer's broadband router.

Using Known IP Address / LAN Connection

To connect over a LAN, you will need:

- to be physically on the same network as the panel
- the IP address of the panel (or use the Network Discovery feature), this can be found using a keypad connected to the panel

- the Download Access Code, this can be set using a keypad connected to the panel
1. Open DLX900.
 2. Click View – Customers – Single Customer.
 3. Click New Customer.
 4. Enter an account number, this uniquely identifies this panel in the DLX900 database.
 5. Select the Panel Type.
 6. Under Connection Method select Using Known IP Address.

7. Enter the TCP/IP address of the panel, port 41796, then click Save.
If you do not know the IP address, click Network Discovery and select the panel from the list.
8. If this is an existing system:
Click Communicator – Remote Access.

Enter the Download Access Code to match the one configured in the panel.

9. If this is a default system with installer PIN 9713, the Communicator Menu may be hidden from the Web Page and the Download Access Code is not used for authentication. Proceed to next step.

Note: Change the installer PIN to reveal the Communicator Menu, then change the Download Access Code to allow remote access, or leave at 00000000 to prevent DLX900 connections.

10. Click the Connect TCP/IP button.
11. The status bar on the bottom right will show ONLINE.
12. Continue to program the panel.

Using UltraSync Connection

To connect over UltraSync, you will need:

- the panel must be online with UltraSync
- Internet access for your laptop
- the serial number of the panel
- the Web Access Passcode, this can be set using a keypad connected to the panel
- the Download Access Code, this can be set using a keypad connected to the panel

1. Open DLX900.
2. Click View – Customers.
3. Create a New Customer. The account number uniquely identifies that user in the DLX900 database.
4. Under Connection Method select Remote via UltraSync.

Customer - 3

Name [] [] Goto... 4 of 4

Address []

City [] State [] Zip code []

Account number [3] Goto... Panel [Reserved]

Contact phone [] Goto...

Contact phone 2 [] Goto...

Panel phone [] Reserved []

Save

New Customer

Duplicate Customer

Delete

Connect TCP/IP

Connection Method [Remote Via UltraSync]

IP Address [192.168.25.155] Get Connect Info

IP Port [41796]

Serial Number [123456789012] Network Discovery

Web Access Passcode [12345678]

Installation Date [Invalid]

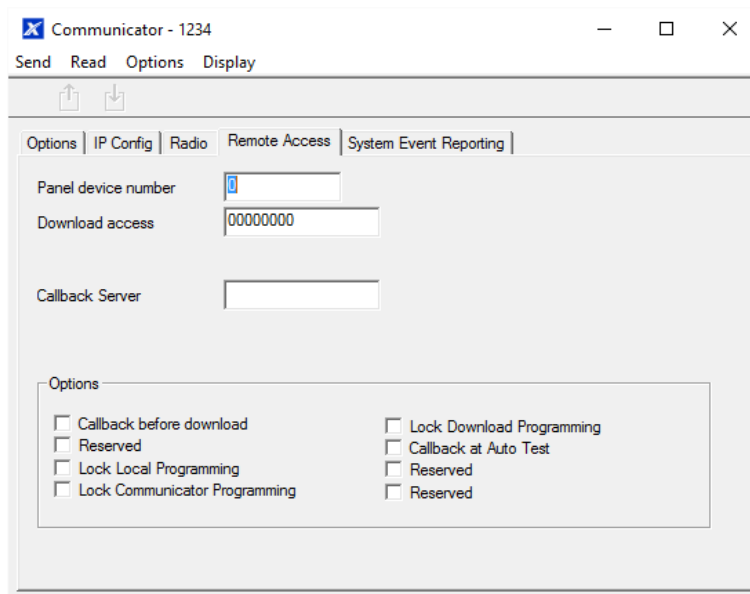
Last Diagnostic Date [20/05/2019 12:47:14 PM]

Additional items >>

5. Enter the serial number and Web Access Passcode.

6. If this is an existing system:

Click Communicator – Remote Access.



Enter the Download Access Code to match the one configured on the panel.

7. If this is a default system with installer PIN 9713, the Communicator Menu may be hidden from the Web Page and the Download Access Code is not used for authentication. Proceed to next step.

Note: Change the installer PIN to reveal the Communicator Menu, then change the Download Access Code to allow remote access, or leave at 00000000 to prevent DLX900 connections.

8. Click the Connect TCP/IP button.

9. The status bar on the bottom right will show ONLINE.

10. Continue to program the panel.

Programming with DLX900

This section of the manual will describe the steps needed to program each feature using the DLX900 software.

Selected screen shots of the Panel Web Server are shown as an example, actual contents will depend on your panel's features. Similar screens appear on the UltraSync+ app.

Programming Instructions for System Options

Goal

Program System Options including time and date, tamper, siren, timers, and service settings.

Pre-conditions

Time and date are automatically updated using an Internet time server by default, this setting is enabled under Communicator – IP Config.

If you want to allow Panel to send diagnostic emails, then check email is set up correctly under Communicator – Email and Panel is connected to a network.

Note: Ensure you set the correct time zone here.

Programming Sequence

```
System
- System Clock
- General Options
- System Timers
- Siren Options
- Test Options
```

Instructions

1. Open System

The screenshot shows the 'System - 1' configuration window with the 'System Clock' tab selected. The window has a menu bar with 'Send', 'Read', 'Clock', 'Options', and 'Display'. Below the menu bar are two icons: an upward arrow and a downward arrow. The 'System Clock' tab is active, showing the following settings:

- Time and Date (Not stored):** Time is set to 2:17:29 PM, and Date is set to 30/12/2016.
- Time Zone:** Hours offset is set to UTC+10 (AET), and Minutes offset is set to 0.
- Daylight Saving Time:** Start Month is Oct, End Month is Apr, Start Week is First, and End Week is First.

2. Select the right Time Zone using the Hours and minutes offset
3. If you wish to update the time and date
4. Go to System and Siren Options

The screenshot shows the 'System - 1' configuration window with the 'System and Siren Options' tab selected. The window has a menu bar with 'Send', 'Read', 'Clock', 'Options', and 'Display'. Below the menu bar are two icons: an upward arrow and a downward arrow. The 'System and Siren Options' tab is active, showing the following settings:

- System:**
 - ☐ Panel Zone Doubling
 - ☐ Panel Box Tamper
 - ☐ System Zone Tamper
 - ☒ Enable Celsius Scale
 - ☐ Enable Jam Detection
 - ☐ Disable Hardwired Zones
 - ☐ Two Wire Smoke
 - ☐ Strobe on Arm
 - ☒ System Alarm Latch
 - ☐ Zone Inactivity
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
- Siren:**
 - ☒ Siren Once per Zone
 - ☐ Siren tamper
 - ☐ Siren At System Away/Disarm
 - ☐ Siren At End of Exit
 - ☐ Siren At Arm Report
 - ☐ Siren At Line Cut Armed
 - ☐ Siren At Line Cut Disarmed
 - ☐ Voltage Siren Output
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
 - ☐ Reserved
- Menu Language:** English (Australia)
- Voice Language:** English (Australia)

5. Select the settings you want to enable

6. Go to Timers

| System Clock | System and Siren Options | Timers | Service and Automation |
|-------------------------------------|--------------------------|--------|--|
| Siren Time [0-99] Minutes | | 4 | Walk Test Time [0-99] Minutes |
| Strobe Time [0-99] Hours | | 3 | Battery Missing Time [0-65] Seconds |
| Battery Test Time [0-99] Minutes | | 2 | AC Fail Report Delay [0-999] Secs |
| Phone Fault Delay [0-6000] Seconds | | 0 | Phone Restore Delay [0-99] Secs |
| Twin Trip Time [0-999] Secs | | 300 | Report Delay [0-99] Secs |
| Holdup Delay [0-999] Secs | | 0 | Fire Verify Delay [0,120-255] Secs |
| Reserved | | 0 | Zone Inactivity Time [0-65535] Minutes |
| Reserved | | 0 | Fire Supervise Time [120-65535] Secs |
| Burg Supervise Time [120-65535] Sec | | 43200 | Reserved |
| Swinger Shutdown [0-10] | | 0 | |

7. Enter the settings for global timers. Note Entry/Exit times are not here, go to Areas-Area Timers.

8. Go to Maintenance and Test

| System Clock | System and Siren Options | Timers | Service and Automation |
|---------------------------------|--------------------------|-------------|------------------------|
| Diagnostic email interval(Days) | | 0 | |
| Diagnostic email time | | 12:00:00 AM | |
| Service Phone Number [0-9] | | | |
| Automation Menu | | | |
| Automation User Name | | | |
| Automation User PIN | | 00000000 | |

9. Enter a Diagnostic email interval. This is the number of days to wait before sending an email at the specified time. This verifies email communication is working.

Web Page

| |
|------------|
| Logout |
| Arm/Disarm |
| Zones |
| Cameras |
| History |
| Users |
| Settings |
| Advanced |

Settings Selector

System

UpDownSave

Control Name

Alarm System

Language

English

Voice Language

English

System Date and Time

Date:

2016-03-11

Time (hh:mm:ss) :

11

51

47

System Time Zone

Hours Offset

UTC+10

Minutes Offset

0

System Daylight Saving Time

Start Month

Oct

Start Week

First

End Month

Apr

End Week

First

System Timers

Siren Time [0-99] Minutes

3

Battery Test Time [0-99] Minutes

2

Battery Missing Time [0-65] Seconds

10

AC Failure Report Delay [0-999] Seconds

600

Cross Zone Time [0-999] Seconds

60

Zone Inactivity Time [0-65535] Minutes

0

Fire Supervise Time [120-65535] Seconds

14400

Burg Supervise Time [120-65535] Seconds

28800

System Options

Panel Zone Doubling

Panel Box Tamper

System Zone Tamper

Disable Hardwired Zones

Zone Inactivity

☐

☐

☒

☐

☐

System Reporting

System Channels

1 Channel Group

Programming Instructions for Permissions

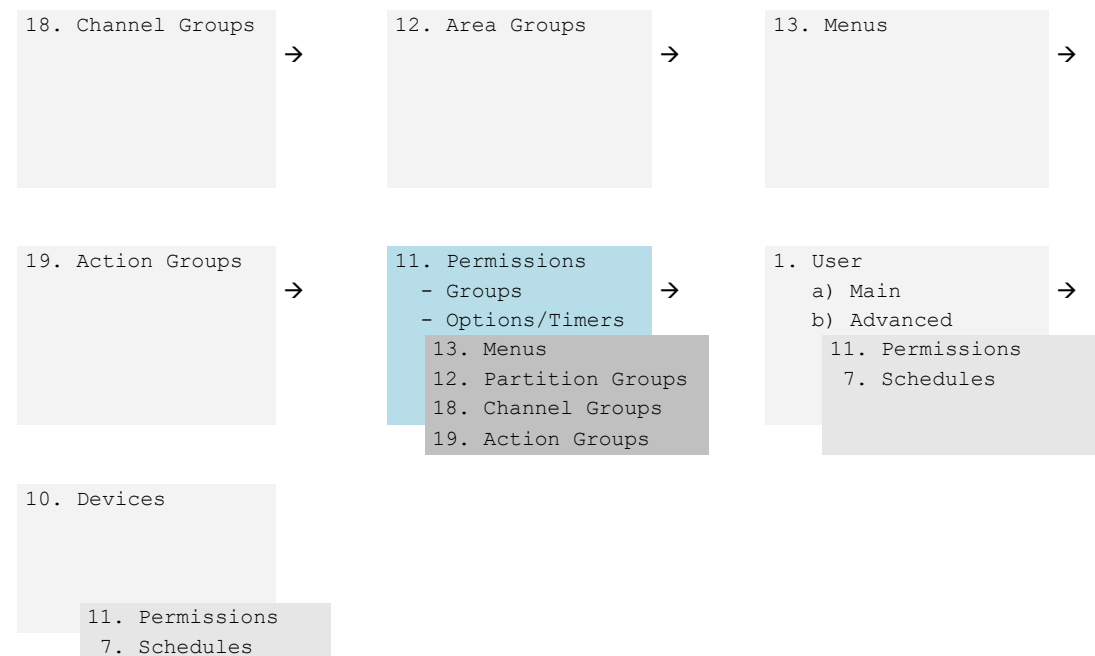
Goal

Create a list of permissions that will restrict users, keypads, and devices to specific parts of the system.

Pre-conditions

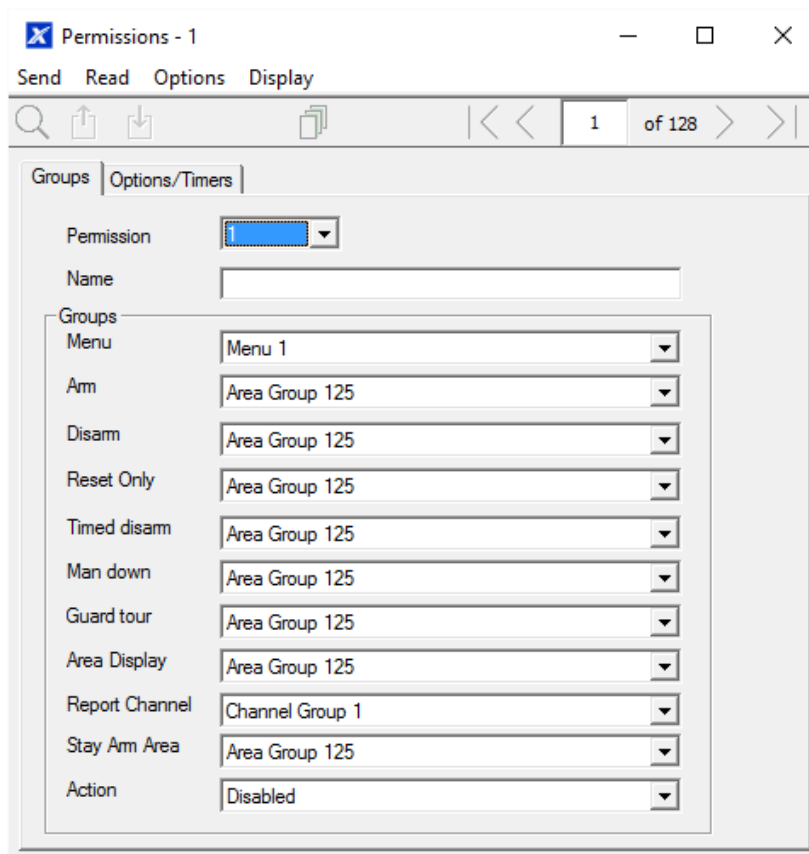
Have programmed or customized Channel Groups, Area Groups, Menus, and Action Groups. Alternatively, you can use the preset groups.

Programming Sequence



Instructions

1. Open Permissions



Permissions - 1

Send Read Options Display

1 of 128

Groups Options/Timers

Permission []

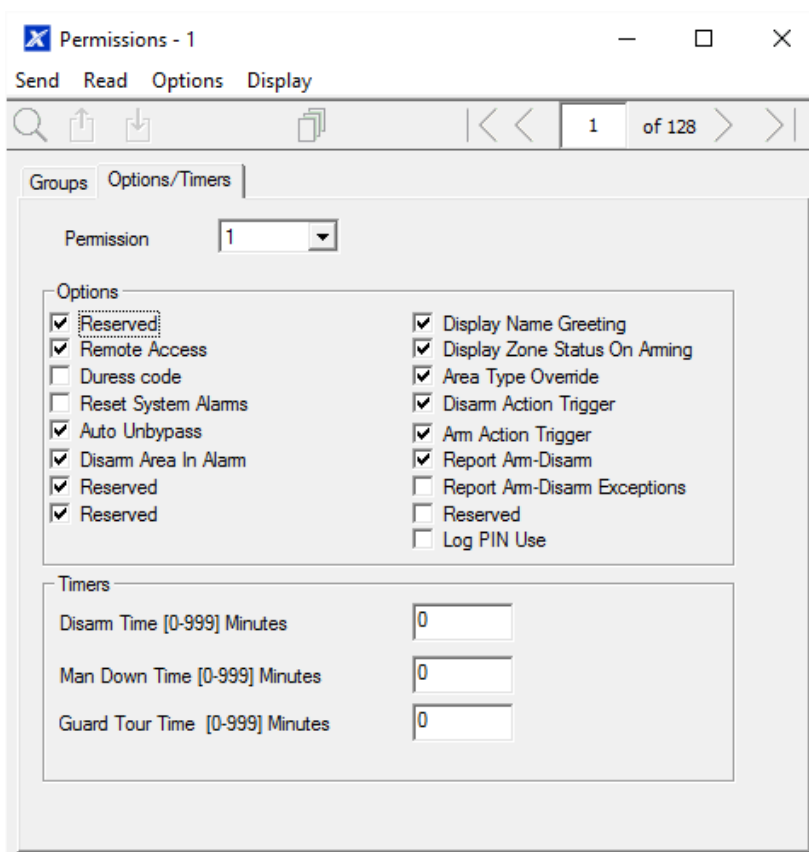
Name []

Groups

| | |
|----------------|-----------------|
| Menu | Menu 1 |
| Arm | Area Group 125 |
| Disarm | Area Group 125 |
| Reset Only | Area Group 125 |
| Timed disarm | Area Group 125 |
| Man down | Area Group 125 |
| Guard tour | Area Group 125 |
| Area Display | Area Group 125 |
| Report Channel | Channel Group 1 |
| Stay Arm Area | Area Group 125 |
| Action | Disabled |

2. Select the permission number you want to modify
3. Enter a functional name for the permission
4. Select the Groups for each item which will give access to the items selected inside the group. For example, if this permission is assigned to a user, then that user will have access to Arm each of the Areas that are selected inside the Area Group and no others.

5. Click the Options/Timers tab



6. Select the user options that you want to apply to this permission. Descriptions of each item are available in the Panel Reference Guide.

Next

Program Users or Devices

Programming Instructions for Menus

Goal

Create a list of menus that a user or device has access to on the Panel.

Pre-conditions

None.

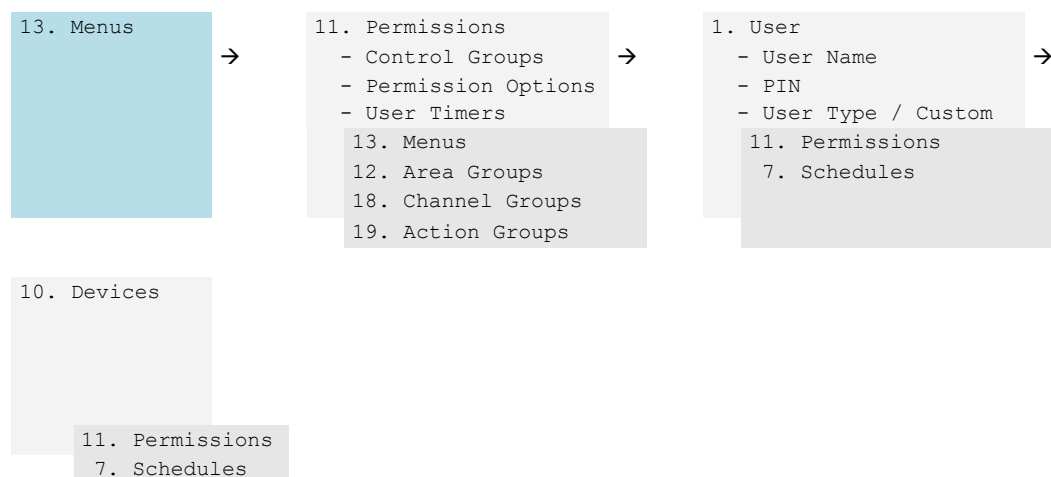
Notes

The menus that will be available are the ones that the device has permission to display AND the ones that a user has access to, at the specified time and date which is controlled by Schedules.

Users have up to 4 levels of access and devices have up to 2. This allows very sophisticated and fine grained control of access.

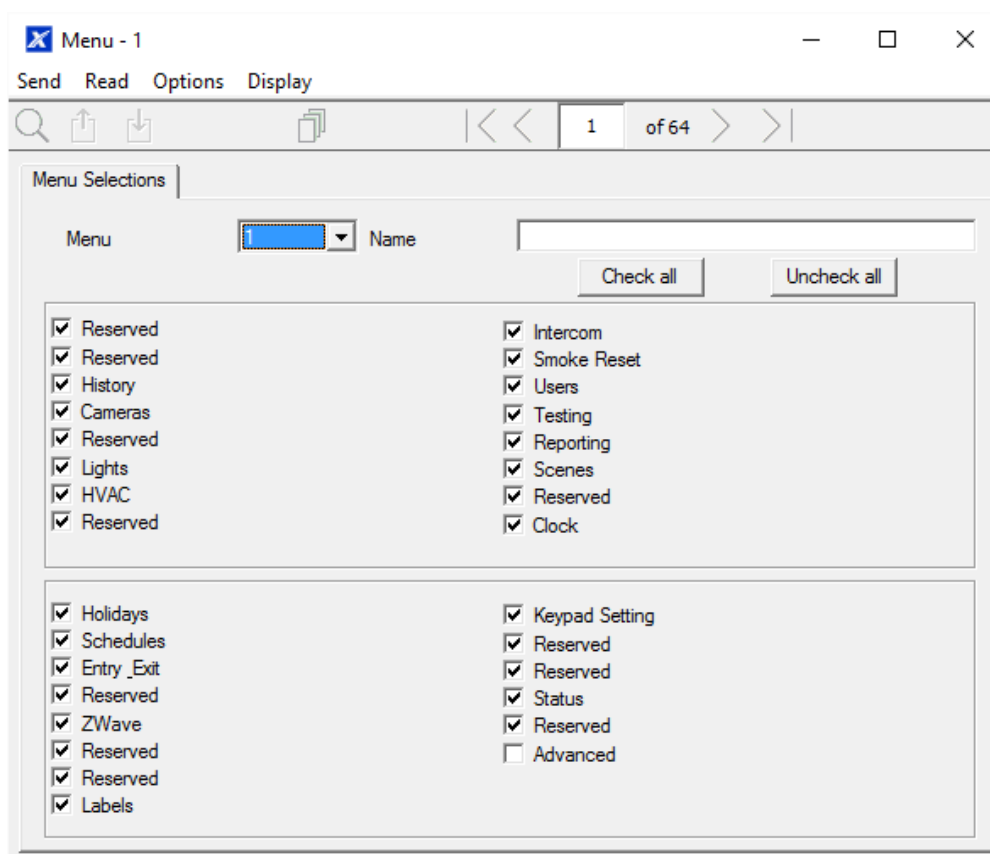
64 custom menus can be created. The preset ones will help you create a system quickly without needing to modify these.

Programming Sequence



Instructions

1. Open Menus



2. Select the Menu number
3. Enter a descriptive name
4. Tick each item that you want a user / device to have access to.

Next

- Program Permissions

- Assign the Permission to a User or a Device

Programming Instructions for Holidays

Goal

Create a list of holidays to provide or prevent access to the Panel on the specific dates.

Pre-conditions

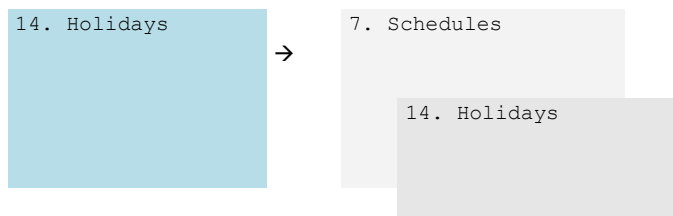
None.

Notes

Ticking Holidays in a Schedule for a permission PREVENTS access.

Holiday schedules may impact automation features such as Actions if they are in use. For example, you may not want an Action to play on a holiday, so take care in programming the associated Schedule and permissions.

Programming Sequence



Instructions

1. Open Holidays

Holiday - 1

Send Read Options Display

Holidays

Holiday: 1 Name:

Dates

| | Start date | End date | | Start date | End date |
|----|------------|-----------|-----|------------|-----------|
| 1. | 1/01/2016 | 1/01/2016 | 9. | 1/01/2016 | 1/01/2016 |
| 2. | 1/01/2016 | 1/01/2016 | 10. | 1/01/2016 | 1/01/2016 |
| 3. | 1/01/2016 | 1/01/2016 | 11. | 1/01/2016 | 1/01/2016 |
| 4. | 1/01/2016 | 1/01/2016 | 12. | 1/01/2016 | 1/01/2016 |
| 5. | 1/01/2016 | 1/01/2016 | 13. | 1/01/2016 | 1/01/2016 |
| 6. | 1/01/2016 | 1/01/2016 | 14. | 1/01/2016 | 1/01/2016 |
| 7. | 1/01/2016 | 1/01/2016 | 15. | 1/01/2016 | 1/01/2016 |
| 8. | 1/01/2016 | 1/01/2016 | 16. | 1/01/2016 | 1/01/2016 |

2. Select one of the 4 Holidays available
3. Enter a name for the Holidays
4. Enter the start and end date for each holiday you have

Next

Program Schedules

Example



Office Worker

User Permission 1 – All Partitions

Office Schedule 1 – 8am-8pm M-F, Holidays 1 (ticked)

An office is not staffed during a public holiday, and you want to **prevent** access to the building to staff on this date.

The public holidays in NSW, Australia for 2019 are:

- New Year's Day: 1 January
- Australia Day: 26 January
- #Additional Day: 28 January
- Good Friday: 19 April
- Day following Good Friday: 20 April
- Easter Sunday: 21 April

- Easter Monday: 22 April
- Anzac Day: 25 April
- Queen's Birthday: 10 June
- Labour Day: 7 October
- Christmas Day: 25 December
- Boxing Day: 26 December

1. Open Holidays and program the date ranges.

The screenshot shows a software window titled "Holiday - 1". It has a menu bar with "Send", "Read", "Options", and "Display". Below the menu bar is a toolbar with icons for search, upload, download, and a list icon. A status bar shows "1 of 4" with navigation arrows. The main area is titled "Holidays" and contains a "Holiday" dropdown menu set to "1" and a "Name" text field. Below this is a "Dates" section with a table of date ranges.

| | Start date | End date | | Start date | End date |
|----|------------|-----------|-----|------------|-----------|
| 1. | 1/01/2016 | 1/01/2016 | 9. | 1/01/2016 | 1/01/2016 |
| 2. | 1/01/2016 | 1/01/2016 | 10. | 1/01/2016 | 1/01/2016 |
| 3. | 1/01/2016 | 1/01/2016 | 11. | 1/01/2016 | 1/01/2016 |
| 4. | 1/01/2016 | 1/01/2016 | 12. | 1/01/2016 | 1/01/2016 |
| 5. | 1/01/2016 | 1/01/2016 | 13. | 1/01/2016 | 1/01/2016 |
| 6. | 1/01/2016 | 1/01/2016 | 14. | 1/01/2016 | 1/01/2016 |
| 7. | 1/01/2016 | 1/01/2016 | 15. | 1/01/2016 | 1/01/2016 |
| 8. | 1/01/2016 | 1/01/2016 | 16. | 1/01/2016 | 1/01/2016 |

2. Next, go to Schedules and **tick** “Holidays 1”:

The 'Schedules - 1' window displays the configuration for 'Office Schedule 1'. The 'Schedule' dropdown is set to '1', and the 'Follow Action Number' is set to 'Disabled'. The 'Time and Days' section shows a grid for four time slots (1-4). For each slot, the start and end times are set to 12:00:00 AM. The 'All Weekdays' checkbox is checked for all four slots. The 'Holidays 1' checkbox is checked for all four slots. The 'Holidays 2' through 'Holidays 4' checkboxes are unchecked.

| | 1 | 2 | 3 | 4 |
|--------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Start time | 12:00:00 AM | 12:00:00 AM | 12:00:00 AM | 12:00:00 AM |
| End time | 12:00:00 AM | 12:00:00 AM | 12:00:00 AM | 12:00:00 AM |
| All Days | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| All Weekdays | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| All Weekends | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Monday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tuesday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Wednesday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Thursday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Friday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Saturday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sunday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

3. Then assign that schedule to the User:

The 'Users - 1' window displays the configuration for a user. The 'Profile' dropdown is set to '1', and the 'Permission' is set to 'Disabled'. The 'Schedule' dropdown is set to 'Office Schedule 1'. The 'Start date and time' is set to 1/01/2000 12:00:00 AM, and the 'End date and time' is set to 7/02/2106 6:28:15 AM.

| Profile | Permission | Schedule |
|---------|------------|-------------------|
| 1 | Disabled | Office Schedule 1 |

| Start date and time | End date and time |
|-----------------------|----------------------|
| 1/01/2000 12:00:00 AM | 7/02/2106 6:28:15 AM |

Programming Instructions for Users

Goal

Add/Edit/Remove users from your Panel.

Pre-conditions

- Have programmed or customized Permissions. Alternatively, you can use the defaults.
- Have programmed or customized Schedules. Alternatively, you can use the defaults.

Notes

PIN codes must be unique across the system, no two users can share the same PIN code.

PIN codes must be 4 to 8 digits in length.

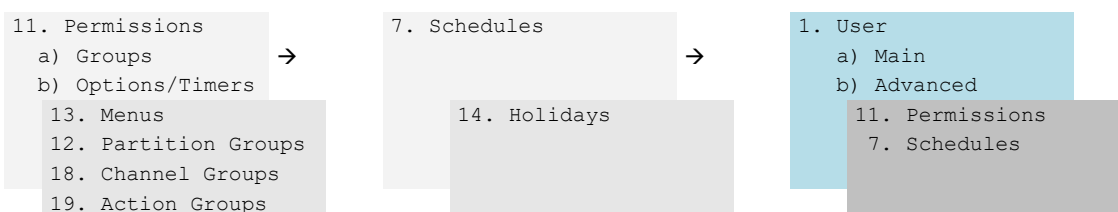
User name must be assigned to give that user access to UltraSync+ app or Panel Web Server. A user with no first name will be unable to gain remote access.

The default installer account is User 256 with user name **installer** and PIN **9713**, with Master Engineer user type. These details are used to Log in to the Web Server web pages and UltraSync+ app.

The default master account is “**User 1**” and PIN **1234**

The default standard account is “**User 2**” and PIN **5678**

Programming Sequence



Instructions

1. Open Users

The screenshot shows a window titled 'Users - 1' with a standard Windows-style title bar. Below the title bar is a menu bar with 'Send', 'Read', 'Options', and 'Display'. A toolbar follows with icons for search, add, copy, delete, and navigation. The main area has two tabs: 'Main' and 'Advanced'. The 'Main' tab is active and contains the following fields:

- User Number:** A text box containing the number '1'.
- Name:** A text box containing 'User 1'.
- PIN:** A text box containing '1234'.
- Type:** A dropdown menu with 'Master' selected.
- Language:** A dropdown menu with 'English (Australia)' selected.

2. Select the User number you want to modify with the Left and Right arrow keys on the top right. You can also Search, Add, Copy, and Delete a user by clicking the corresponding button on the toolbar.

This screenshot is identical to the one above, showing the 'Users - 1' window with the 'Main' tab selected. The fields are: User Number (1), Name (User 1), PIN (1234), Type (Master), and Language (English (Australia)).

3. Enter a first name and/or last name for the user. It is case sensitive and provides the user name to log in from the UltraSync+ app.
4. Enter a new PIN code for the user. It must be unique and 4-8 digits long.
5. Select the user type that you want to apply to this user. Descriptions of each type are available in the Panel Reference Guide.
6. The Status option determines if that user can interact with the system, or if their access has expired.

7. Click the Advanced tab.

The screenshot shows a window titled "Users - 1" with a menu bar containing "Send", "Read", "Options", and "Display". Below the menu bar is a toolbar with icons for search, upload, download, add, and delete, along with navigation arrows and a page indicator "1 of 12". The window has two tabs: "Main" and "Advanced", with "Advanced" currently selected. The "Advanced" tab contains the following settings:

- Profile:** A dropdown menu set to "1".
- Permission:** A dropdown menu set to "Permission 1".
- Schedule:** A dropdown menu set to "Always On".
- Start date and time:** Two dropdown menus showing "1/01/2000" and "12:00:00 AM".
- End date and time:** Two dropdown menus showing "7/02/2106" and "6:28:15 AM".

8. You can set the start/end date and time for when this user will have access to the system. This can be used to provide temporary user access. If Active is selected on the previous tab, then the end date and time on this screen will be set to maximum.
9. You can program up to 4 levels of access for each user. Permission 1 is applied when Schedule 1 is true.

The combination of one Permission and one Schedule is called a "Permission Profile" (left drop-down menu). Permission Profile 1 is the highest level and will override Permission Profile 2 when Schedule 1 is active. Refer to Panel Reference Guide for more details.

To enable Permission Profiles the user type must be first set to Custom on the Main tab.

Web Page

Logout

Arm/Disarm

Zones

Cameras

History

Users

Settings

Advanced

Configure Users

Add Edit Delete Save

Select User ☐ Sort By Name

User 1 (1) ▼

User Number: 1

First Name: User 1

Last Name:

PIN: 1234

Language: English ▼

User Type: Custom ▼

Start: 2000-01-01 Midnight ▼

End: 2106-02-07 6:00 AM ▼

Profile 1: Always On ▼
All Partitions ▼

Profile 2: Always On ▼
disabled ▼

Profile 3: Always On ▼
disabled ▼

Profile 4: Always On ▼
disabled ▼

Programming Instructions for Zones

Goal

Program zones and add them to Areas.

Pre-conditions

None.

Notes

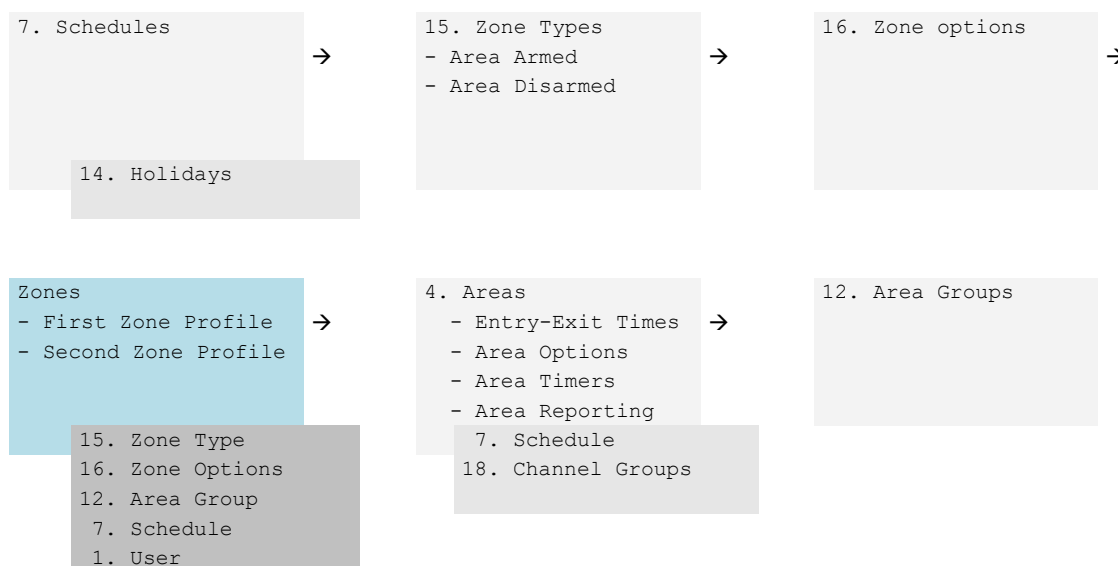
Use defaults for Zone Types and Zone Options to quickly set up your system.

Zones can have one or two profiles. The first profile will be active during the selected schedule, it takes priority over the second profile/schedule. The second profile will be active during the selected schedule if the first profile is not active.

If neither schedule is valid, then the zone will be disabled.

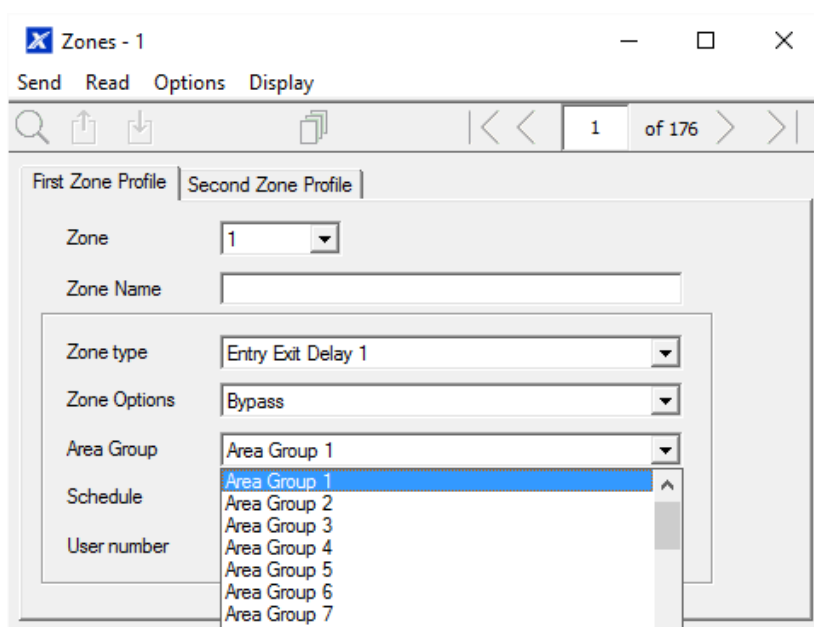
See the next section for programming custom zones.

Programming Sequence



Instructions

1. Go to Zones.



2. Select a zone number you want to program.
3. Enter a name for the zone.
4. Select a zone type preset.
5. Select a zone options preset.
6. Select an Area Group for the zone. If you want a zone to be in its own Area, then select an Area Group with only one Area. To create a zone in a common Area, select an Area Group with multiple Areas. Alternatively come back to this step later.

7. For a standard installation set the schedule to a preset which is 24 hours every day, holidays should NOT be ticked in this schedule. This will enable the first zone profile.

If you want the zone settings to change based on a schedule, then select the first schedule here.

8. If you are setting up a keyswitch zone, then the user number field controls which user profile will be used to arm/disarm. The keyswitch zone will report as default User 99.
9. If you are programming a second zone profile, click the Second Zone Profile tab and repeat steps 4 to 7.

Web Page

The screenshot displays the DLX900 web interface. On the left is a vertical sidebar menu with the following items: Logout, Arm/Disarm, Zones, Cameras, History, Users, Settings (highlighted in dark grey), and Advanced. The main content area is divided into three sections. The top section, titled 'Settings Selector', contains a dropdown menu set to 'Zones' and three buttons: 'Up', 'Down', and 'Save'. The middle section, titled 'Zone Add/Remove Functions', contains three buttons: 'Learn', 'Remove', and 'Cancel'. The bottom section, titled 'Select Zone to Configure:', contains a dropdown menu set to '1 Zone' and the following fields: 'Zone Name' (text input), 'Zone Type' (dropdown menu set to '3 Entry Exit Delay 1'), 'Zone Options' (dropdown menu set to '1 Bypass'), 'Partition Group' (dropdown menu set to '1 Partition 1'), 'Serial Number' (text input with '0'), 'Tamper' (checkbox), 'Disable Internal Reed' (checkbox), 'Norm Open External Contact' (checkbox), 'Signal Strength' (text input with '0'), 'Voice Name 1' (dropdown menu), 'Voice Name 2' (dropdown menu), 'Voice Name 3' (dropdown menu), and 'Voice Name 4' (dropdown menu).

Next

Zones are assigned to one or more Areas using Area Groups. If necessary, program Areas and Area Groups, then assign an Area Group to each zone (step 6).

Programming Instructions for Custom Zones

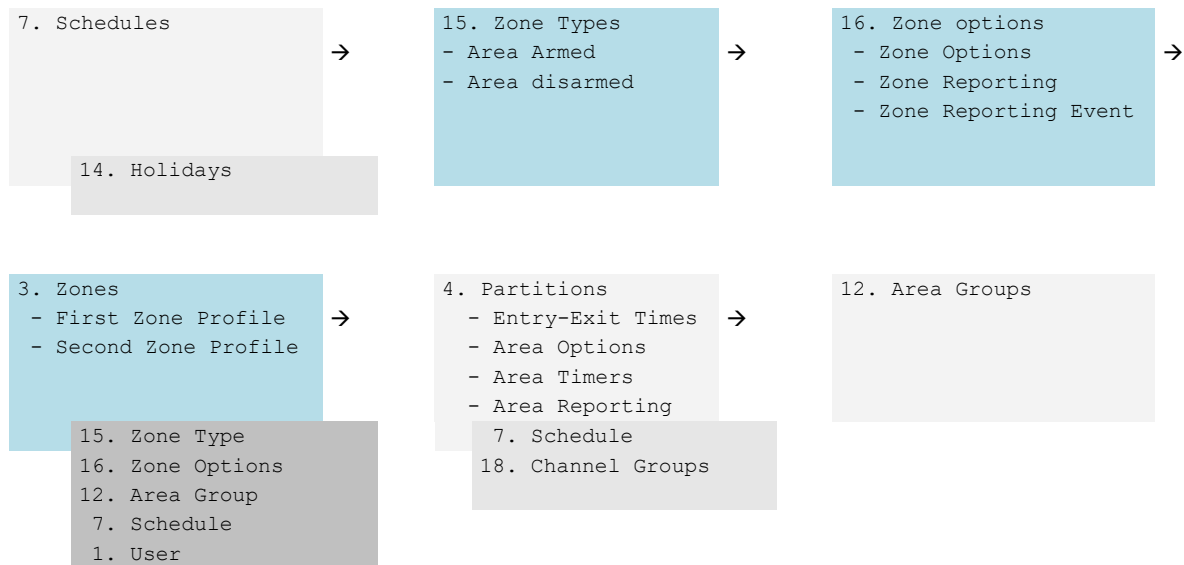
Goal

Program zones with advanced customization, including setting zone behavior to follow a schedule or armed/disarmed state.

Pre-conditions

Program the schedule you want the zone to follow if needed. Alternatively use the defaults.

Programming Sequence



Instructions

1. Go to Zone Type.

Zone types - 1

Send Read Options Display

1 of 32

Zone Type Profiles

Profile: Day Zone

Name:

Area Armed

Zone Attribute: Instant

Siren Attribute: Yelping

☒ Code Pad Sounder ☐ Zone Inhibit

☒ Report delay ☒ Swinger Shutdown

☐ No Code Pad Display

☐ Momentary Switch

Area Disarmed

Zone Attribute: Trouble Zone

Siren Attribute: Silent

☒ Code Pad Sounder ☐ Zone Inhibit

☐ Report Delay ☐ Swinger Shutdown

☐ No Code Pad Display

☐ No Latching

2. Go to Zone Options.

Zone Options - 1

Send Read Options Display

1 of 32

Zone Options Profiles

Profile: Bypass

Name:

Zone Report Event: 134:BA

Options

| | |
|--|--|
| <input type="checkbox"/> Bypassed Stay Mode | <input type="checkbox"/> Follow Any Armed Area |
| <input type="checkbox"/> Forced Arm Enabled | <input checked="" type="checkbox"/> Alarms reporting |
| <input checked="" type="checkbox"/> Bypass | <input checked="" type="checkbox"/> Alarm restore reporting |
| <input type="checkbox"/> Twin Trip | <input checked="" type="checkbox"/> Bypass-Unbypass reporting |
| <input checked="" type="checkbox"/> EOL | <input checked="" type="checkbox"/> Sensor Lost-Low Battery reporting |
| <input type="checkbox"/> Automatic Zone Test | <input checked="" type="checkbox"/> Sensor Trouble and Restore reporting |
| <input type="checkbox"/> Night Mode | <input type="checkbox"/> Normally open |
| <input type="checkbox"/> Zone Inactivity | <input type="checkbox"/> Fast Loop |

3. Select the options you want, the SIA/CID event code can be customized. See the Panel Reference Guide for a table of codes.

4. Go to Zones.

5. Select a zone number you want to program.
6. Enter a name for the zone.
7. Select the zone type profile you just created.
8. Select the zone options profile you just created.
9. Select an Area Group for the zone. If you want a zone to be in its own Area, then select an Area Group with only one Area. To create a zone in a common Area, select an Area Group with multiple Areas. Alternatively come back to this step later.
10. For a standard installation set the schedule to a preset which is 24 hours every day, holidays should NOT be ticked. For example, "Always On". This will enable the first zone profile.

If you want the zone settings to change based on a schedule, then select the first schedule here.

If no schedule is set in either the first or second zone profile, then the zone will be disabled.

11. If you are setting up a keyswitch zone, then the user number field controls which user profile will be used to arm/disarm. The keyswitch zone will report as default User 99.

12. If you are programming a second zone profile, click the Second Zone Profile tab and repeat steps 4 to 7.

Next

Zones are assigned to one or more Areas using Area Groups. If necessary, program Areas and Area Groups, then assign an Area Group to each zone (step 8).

Programming Instructions for Areas

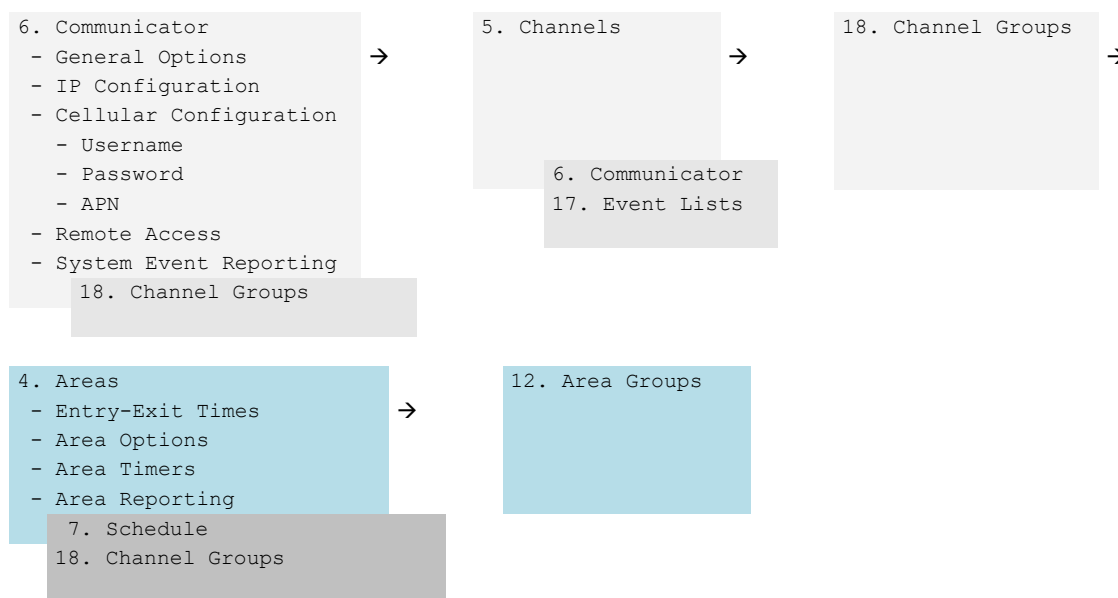
Goal

Program Areas, Entry/Exit Times, Reporting Options, and Area Groups.

Pre-conditions

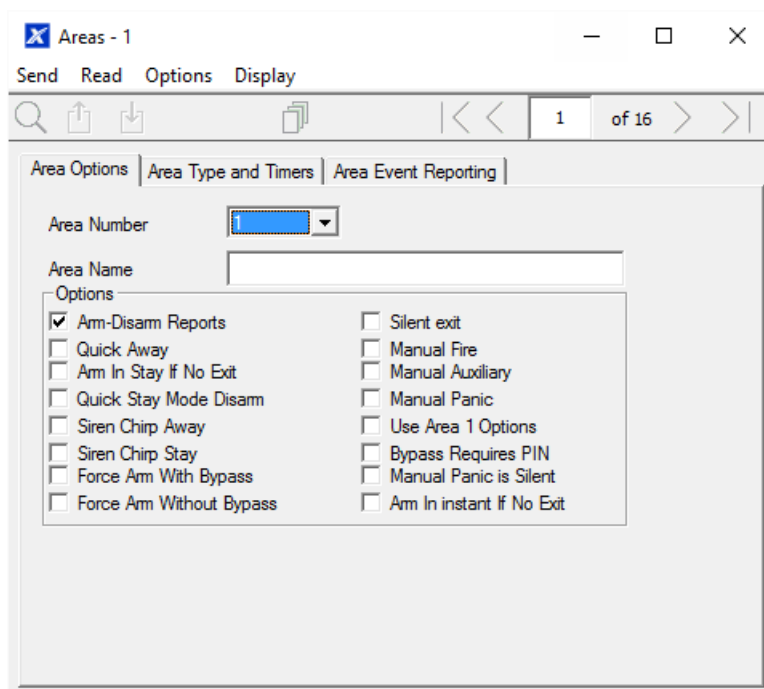
Programmed Communicator, Channels, and Channel Groups.

Programming Sequence



Instructions

1. Go to Areas.



2. Select an Area Number.
3. Enter a descriptive name.
4. Select the Options you want to enable for this Area. Area 2 and above have "Use Area 1 Options" ticked to allow faster programming of your system. Untick this box if you want to customize options for Area 2 and above.
5. For advanced programming you can assign a Schedule and an Area Time Disarm function to occur according to the schedule. Refer to the Panel Reference Guide for more details.

6. Go to Area Timers.

The screenshot shows the 'Areas - 1' window with the 'Area Type and Timers' tab selected. The 'Area Number' is set to 1. The 'Timers' section contains the following values: Entry Time 1 [0-999] Seconds: 30, Exit Time 1 [0-999] Seconds: 60, Entry Time 2 [0-999] Seconds: 60, Exit Time 2 [0-999] Seconds: 60, Stay Entry Time [0-999] Seconds: 30, Stay Exit Time [0,10-255] Seconds: 0, and Local Alarm Reminder [0-12] Hours: 0. The 'Type' section shows Area Type: Standard, Area Type Schedule: Always On, and Auto Arm Warning [0-99] Minutes: 2.

7. Enter the timers that apply to this Area.

8. Go to Area Reporting.

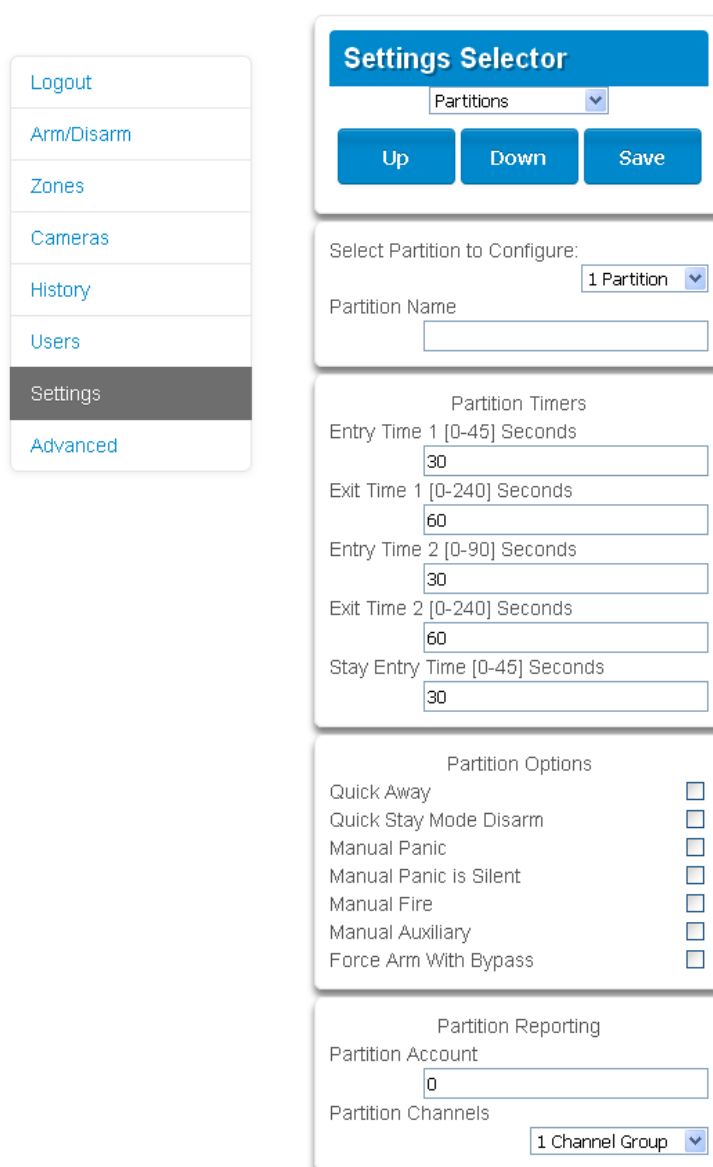
The screenshot shows the 'Areas - 1' window with the 'Area Event Reporting' tab selected. The 'Area Number' is set to 1. The 'Area Account' is set to 0. The 'Area Channels' are set to Channel Group 1.

9. Assign the Area an account number and the Channel Group you want this Area to report to. See Programming Instructions for Zone Reporting for more details on how this works.

Next

Customize Area Groups if needed.

Webpage



Logout

Arm/Disarm

Zones

Cameras

History

Users

Settings

Advanced

Settings Selector

Partitions

Up Down Save

Select Partition to Configure:

1 Partition

Partition Name

Partition Timers

Entry Time 1 [0-45] Seconds

30

Exit Time 1 [0-240] Seconds

60

Entry Time 2 [0-90] Seconds

30

Exit Time 2 [0-240] Seconds

60

Stay Entry Time [0-45] Seconds

30

Partition Options

Quick Away ☐

Quick Stay Mode Disarm ☐

Manual Panic ☐

Manual Panic is Silent ☐

Manual Fire ☐

Manual Auxiliary ☐

Force Arm With Bypass ☐

Partition Reporting

Partition Account

0

Partition Channels

1 Channel Group

Programming Instructions for Schedules

Goal

Create a schedule to provide or prevent access to the Panel on the specific dates and times.

Pre-conditions

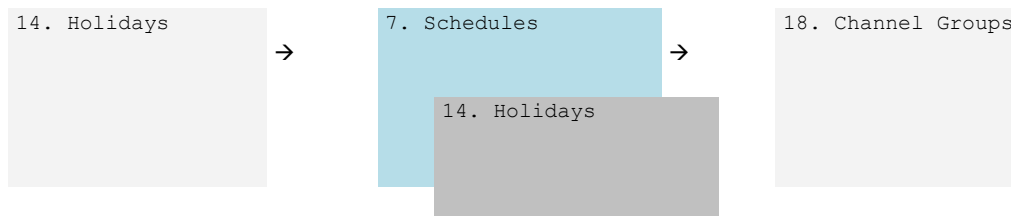
Holidays have been programmed if needed.

Notes

Ticking Holidays in a Schedule PREVENTS access on the holiday dates.

Panel automatically handles schedules that span midnight (for example, bakers' hours), do not tick the following day of the AM hours. (See Reference Guide for more details).

Programming Sequence



Instructions

1. Go to Menu – Schedules.

Schedules - 1

Send Read Options Display

1 of 96

Schedule: 1 Schedule name: Office Schedule 1 Follow Action Number: Disabled

Time and Days: 1-4

| | 1 | 2 | 3 | 4 |
|--------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Start time | 8:00:00 AM | 12:00:00 AM | 12:00:00 AM | 12:00:00 AM |
| End time | 8:00:00 PM | 12:00:00 AM | 12:00:00 AM | 12:00:00 AM |
| All Days | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| All Weekdays | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| All Weekends | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Monday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tuesday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Wednesday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Thursday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Friday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Saturday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sunday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2. Enter a name for the Schedule.
3. Select the first Start and End time.
4. Select the days you want this start and end time to apply to.
5. If you are using the DLX900 software you will be able to see 4 sets of times and days, click the drop-down in the middle to access more. Each schedule can have up to 16 sets of times and days.

If you are using an NXX-1820-HILLS, press the Up and Down buttons to access the 16 sets of times and days.

6. To allow an Action to control when this Schedule is active/inactive, select the Follow Action Number.

- Now the schedule is ready to be assigned to a User or used by another part of the system.

Webpage

[Logout](#)
[Arm/Disarm](#)
[Zones](#)
[Cameras](#)
[History](#)
[Users](#)
[Settings](#)
[Advanced](#)

Settings Selector

Schedules

Up Down Save

Select Schedule to Configure:

1 Schedule

Schedule Name

Time and Days 1

Start Time (hh:mm) :

00 00

End Time (hh:mm) :

00 00

Monday

☐

Tuesday

☐

Wednesday

☐

Thursday

☐

Friday

☐

Saturday

☐

Sunday

☐

Holidays 1

☐

Holidays 2

☐

Time and Days 2

Start Time (hh:mm) :

00 00

End Time (hh:mm) :

00 00

Monday

☐

Tuesday

☐

Wednesday

☐

Thursday

☐

Friday

☐

Saturday

☐

Sunday

☐

Holidays 1

☐

Holidays 2

☐

Time and Days 3

Start Time (hh:mm) :

00 00

End Time (hh:mm) :

00 00

Monday

☐

Tuesday

☐

Wednesday

☐

Thursday

☐

Friday

☐

Saturday

☐

Sunday

☐

Holidays 1

☐

Holidays 2

☐

Time and Days 4

Start Time (hh:mm) :

00 00

End Time (hh:mm) :

00 00

Monday

☐

Tuesday

☐

Wednesday

☐

Thursday

☐

Friday

☐

Saturday

☐

Sunday

☐

Holidays 1

☐

Holidays 2

☐

Example

For example, you could create a 24/7 schedule and then have this schedule follow an action. Next assign a keypad permission this schedule. Now based on what the action does, we can conditionally enable or disable a keypad. This provides a high level of flexibility and multiple sets of rules using actions can be set up like this.

Programming Instructions for Arm-Disarm

Goal

Automatically Arm and Disarm your Panel.

Pre-conditions

Areas have been programmed.

System has been armed previously to initialize the Arm-Disarm function.

Notes

The Arm-Disarm will function as if it is the user you select. You will need to program valid user permissions including Area Groups, User Schedule, Profile levels, and active date and time.

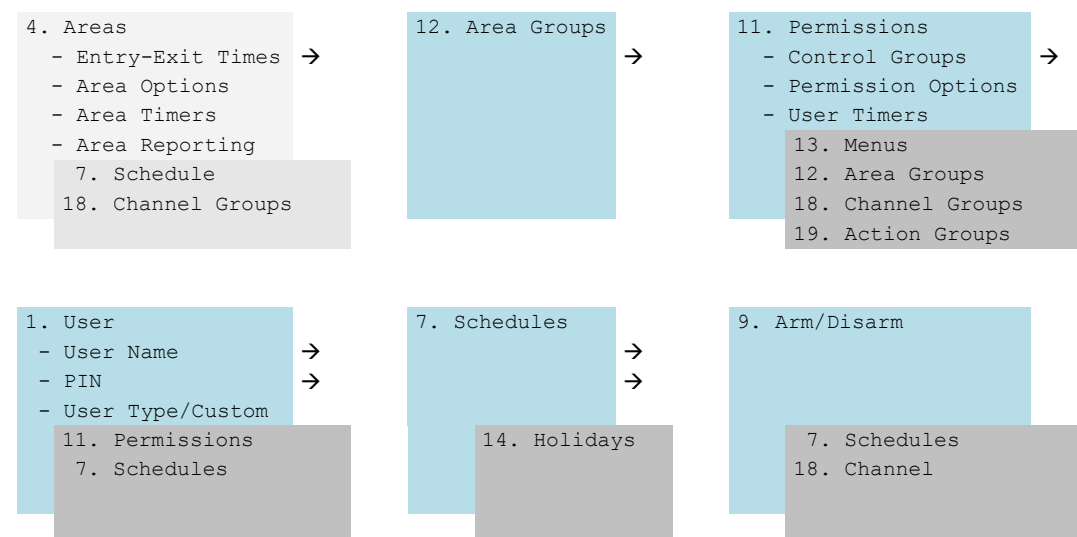
Creating a new user only for the purpose of Arm-Disarm will make it easier to maintain.

Use defaults for Schedules, Area Groups and Permissions for faster programming.

Panel will sound a warning prior to the Arm-Disarm from arming an Area. This is set in Areas – Area Timers – Area Type Delay.

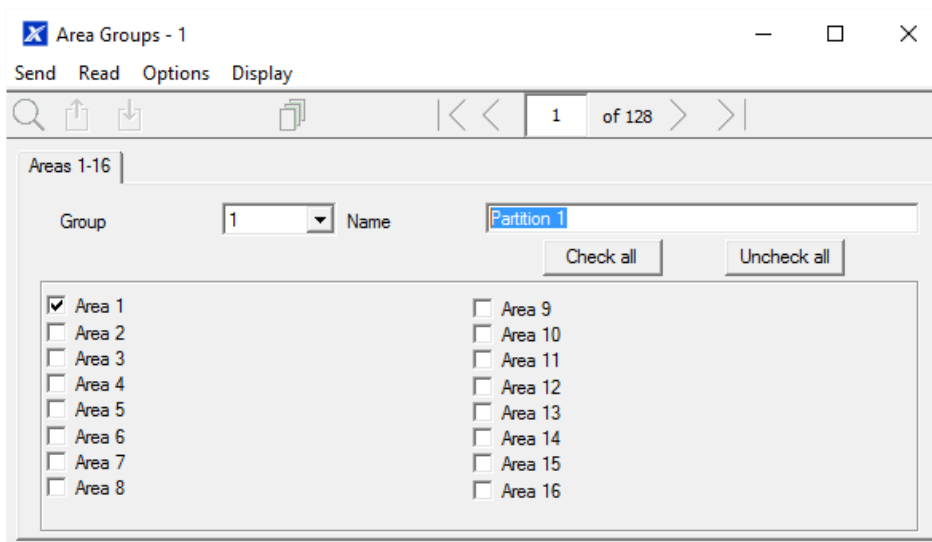
If a user with Area Type Override option disarms an Area with Arm-Disarm, then the Arm-Disarm will no longer function on that Area. To re-enable Arm-Disarm that Area must be manually armed.

Programming Sequence



Instructions

1. Create an Area Group and select the Areas you want to be Armed according to the schedule you will create later.



2. Create an Area Group and select the Areas you want to be Disarmed according to schedule. This can be the same or different as the Area Group you selected above.

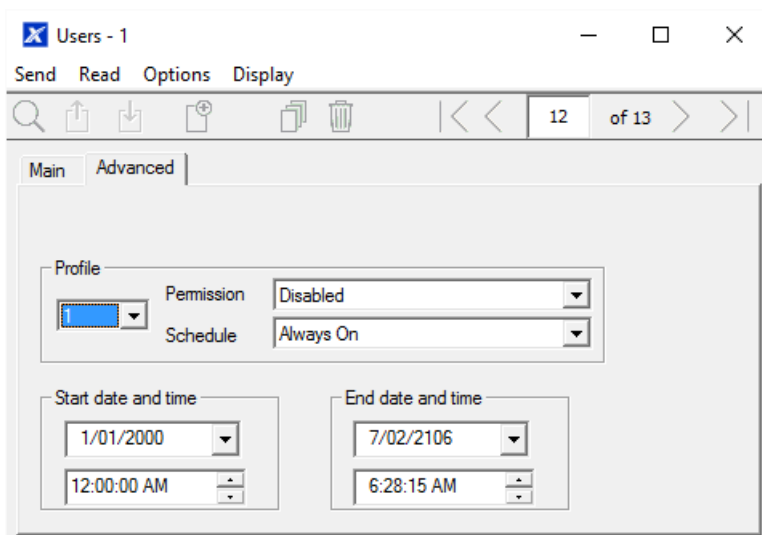
3. Create a Permission and select the corresponding Area Group for Arm and Disarm.

The screenshot shows a window titled "Permissions - 1" with tabs for "Send", "Read", "Options", and "Display". The "Options" tab is active. Below the tabs is a toolbar with icons for search, copy, paste, and navigation. The main area has two tabs: "Groups" and "Options/Timers". The "Groups" tab is selected, showing a list of permissions. The "Permission" dropdown is set to "2". The "Name" field contains "Partition 1". Below this is a "Groups" section with a "Menu" dropdown set to "Menu 1". A list of actions follows, each with a dropdown menu: "Arm" (Partition 1), "Disarm" (Partition 1), "Reset Only" (Partition 1), "Timed disarm" (Partition 1), "Man down" (Partition 1), "Guard tour" (Partition 1), "Area Display" (Partition 1), "Report Channel" (Channel Group 1), "Stay Arm Area" (Partition 1), and "Action" (Disabled).

4. Open Users and create a new user. Suggested you provide a descriptive name such as "Auto Arm User" to make troubleshooting in the future easy.

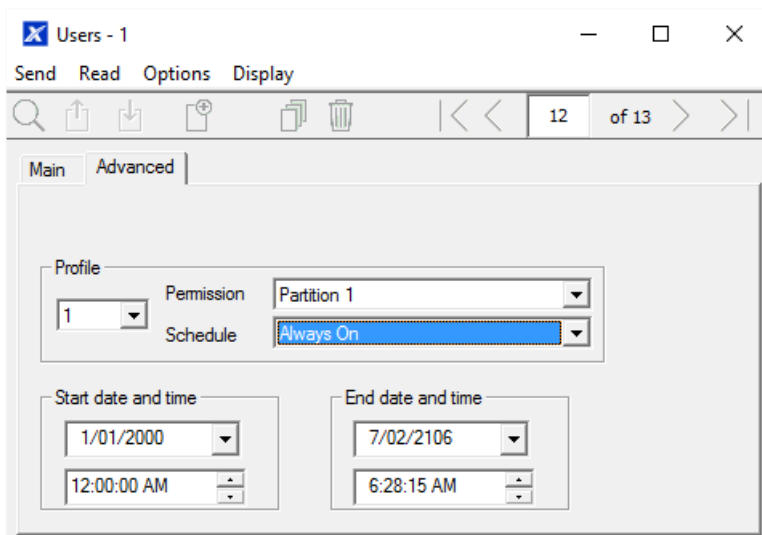
The screenshot shows a window titled "Users - 1" with tabs for "Send", "Read", "Options", and "Display". The "Options" tab is active. Below the tabs is a toolbar with icons for search, copy, paste, and navigation. The main area has two tabs: "Main" and "Advanced". The "Main" tab is selected, showing fields for "User Number" (99), "Name" (Auto Arm User), "PIN" (9999), "Type" (Custom), and "Language" (English (Australia)).

5. Go to the Advanced tab.



The screenshot shows the 'Users - 1' window with the 'Advanced' tab selected. The 'Profile' dropdown is open, showing a blue selection. The 'Permission' dropdown is set to 'Disabled' and the 'Schedule' dropdown is set to 'Always On'. The 'Start date and time' is set to 1/01/2000 12:00:00 AM and the 'End date and time' is set to 7/02/2106 6:28:15 AM.

6. Select the Permission you created above. If you want a simple Arm-Disarm, then leave the Schedule here as Always On. The Schedule selected here is only for the **User**. It determines when the User is allowed to perform an Arm-Disarm, not when the Arm-Disarm will occur.



The screenshot shows the 'Users - 1' window with the 'Advanced' tab selected. The 'Profile' dropdown is set to '1'. The 'Permission' dropdown is set to 'Partition 1' and the 'Schedule' dropdown is set to 'Always On'. The 'Start date and time' is set to 1/01/2000 12:00:00 AM and the 'End date and time' is set to 7/02/2106 6:28:15 AM.

7. Create a Schedule for when you want the Arm-Disarm to occur.

The 'Schedules - 1' window displays the configuration for 'Office Schedule 1'. The 'Schedule' dropdown is set to '1', and the 'Follow Action Number' is set to 'Disabled'. The 'Time and Days' section shows a grid for four days (1-4). For each day, the 'Start time' and 'End time' are set to 8:00:00 AM and 8:00:00 PM respectively. The 'All Weekdays' checkbox is checked for all four days. The 'Holidays 1' checkbox is also checked for all four days. The 'Holidays 2' through 'Holidays 4' checkboxes are unchecked.

| Time and Days | 1 | 2 | 3 | 4 |
|---------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Start time | 8:00:00 AM | 12:00:00 AM | 12:00:00 AM | 12:00:00 AM |
| End time | 8:00:00 PM | 12:00:00 AM | 12:00:00 AM | 12:00:00 AM |
| All Days | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| All Weekdays | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| All Weekends | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Monday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tuesday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Wednesday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Thursday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Friday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Saturday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sunday | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holidays 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

8. Open Arm-Disarm.

The 'Arm-Disarm - 1' window displays the configuration for 'Office Arm-Disarm'. The 'Auto Arm-Disarm number' is set to '1', the 'Auto Arm-Disarm name' is 'Office Arm-Disarm', the 'User number' is '99', and the 'Auto Arm-Disarm schedule' is set to 'Office Schedule 1'.

| | |
|--------------------------|-------------------|
| Auto Arm-Disarm number | 1 |
| Auto Arm-Disarm name | Office Arm-Disarm |
| User number | 99 |
| Auto Arm-Disarm schedule | Office Schedule 1 |

9. Select the Arm-Disarm number.
10. Enter a descriptive name for this Arm-Disarm.
11. Enter the User number you created above.
12. Select the Schedule for when you want to automatically Arm-Disarm the system.
13. Test the Arm-Disarm to ensure it is working as you want.

Example

An office with 3 Areas wants to automatically be disarmed during office hours, and armed out of office hours.

We create Schedule 4 Mon-Fri 9am-5pm. Then User 55 with permission to arm and disarm Area 1, 2, and 3 at any time or day.

Then each weekday at 9am the system will disarm Areas 1, 2, and 3 as if it were user 55 and report those disarm events (openings) to the communication channels specified.

At 5pm each weekday the system would arm Areas 1, 2, and 3 as if it were user 55 and report those arm events (closings) to the communication channels specified.

Arm-Disarm Number 1 – Arm-Disarm Example

Schedule 4 – Office Hours
Mon – Fri
9 AM – 5 PM

→ See “Programming Instructions for Schedules” on page 40 to program

User 55 – Arm-Disarm User

→ See “Programming Instructions for Users” on page 28 to program

Permission 99 – Full Access

→ See “Programming Instructions for Permissions” on page 20 to program

Arm Area Group 1
1, 2, 3

Disarm Area Group 1
1, 2, 3

Schedule 1 – Full Access
7 days, 24 hours

→ See “Programming Instructions for Schedules” on page 40 to program

Programming Instructions for Communicator

Goal

Configure each communication path for delivering event messages.

Pre-conditions

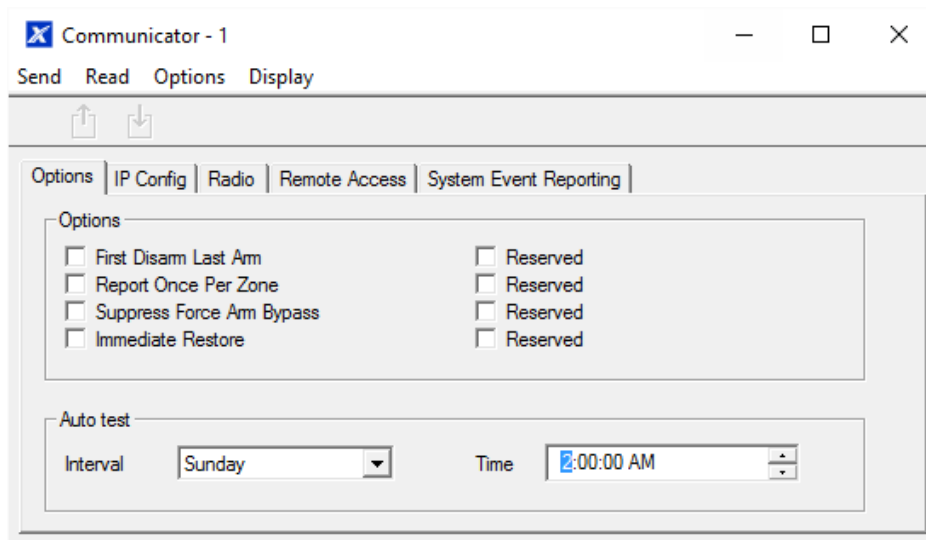
None.

Programming Sequence

- 6. Communicator
 - General Options
 - IP Configuration
 - Cellular Configuration
 - Username
 - Password
 - APN
 - Remote Access
 - System Event Reporting
- 18. Channel Groups

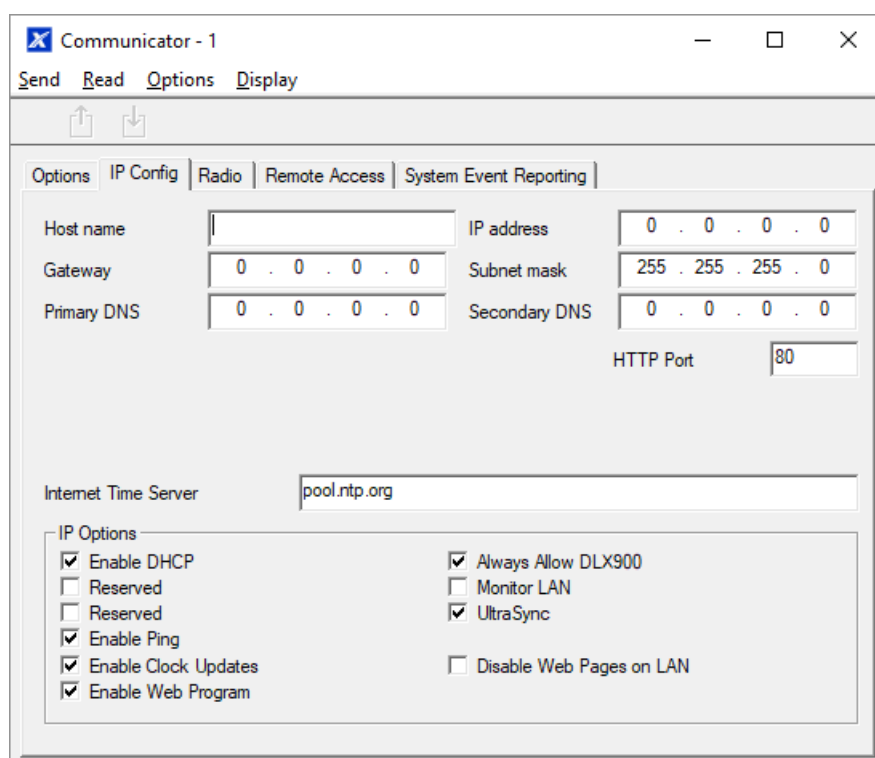
Instructions

1. Open Communicator.



2. Select reporting options.
3. Select when you want Panel to perform an automatic communication test.

4. Click IP Config.



Communicator - 1

Send Read Options Display

Options IP Config Radio Remote Access System Event Reporting

Host name IP address

Gateway Subnet mask

Primary DNS Secondary DNS

HTTP Port

Internet Time Server

IP Options

☒ Enable DHCP ☒ Always Allow DLX900

☐ Reserved ☐ Monitor LAN

☐ Reserved ☒ UltraSync

☒ Enable Ping ☐ Disable Web Pages on LAN

☒ Enable Clock Updates

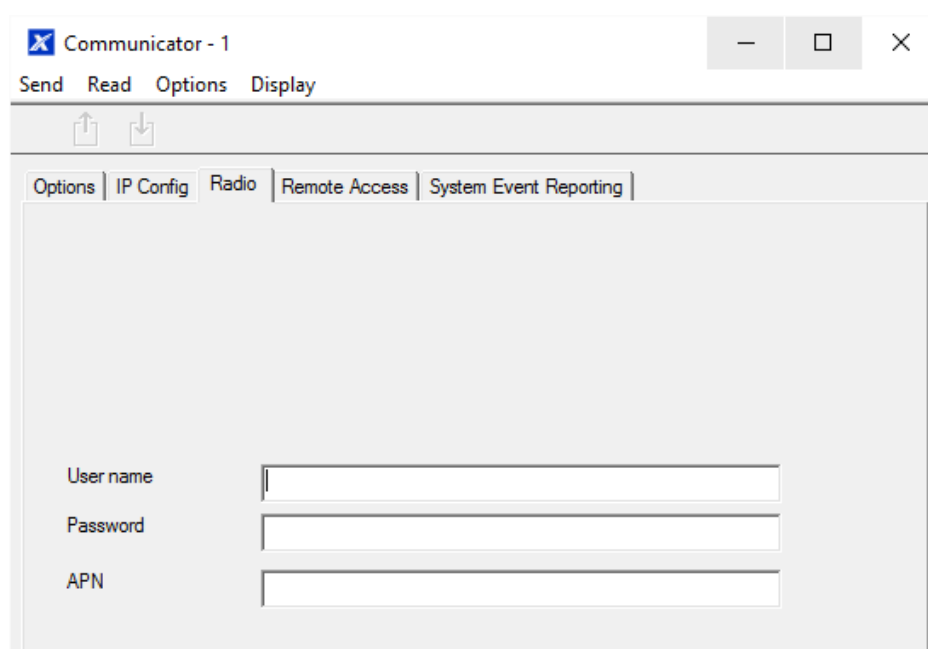
☒ Enable Web Program

5. Edit IP settings for the Panel, if DHCP is enabled on the Panel and a DHCP server is available, then this screen will automatically be filled in.

- Enable Clock Updates – will keep the time and date correct using the provided Internet Time Server, no manual adjustment will be needed when daylight savings occurs provided the time zone is set correctly in System.

- Monitor LAN – this will monitor the physical LAN connection and report communication fail if the cable is disrupted.

6. Click Radio and enter settings if required, this will depend on the SIM card and operator you are using.



Communicator - 1

Send Read Options Display

Options IP Config Radio Remote Access System Event Reporting

User name

Password

APN

7. Click Remote Access

The screenshot shows the 'Communicator - 1' window with the 'Remote Access' tab selected. The window has a menu bar with 'Send', 'Read', 'Options', and 'Display'. Below the menu bar are two icons: an upward arrow and a downward arrow. The 'Remote Access' tab contains the following fields and options:

| Field | Value | Field | Value |
|---------------------|----------|--------------------------|-------|
| Panel device number | 0 | Number Of Rings | 8 |
| Download access | 00000000 | Number of Calls | 0 |
| Call Back number | | Answering Machine Defeat | 0 |
| Callback Server | | | |

Below these fields is an 'Options' section with two columns of checkboxes:

| Option | Option |
|--|--|
| <input type="checkbox"/> Callback before download | <input type="checkbox"/> Lock Download Programming |
| <input type="checkbox"/> Reserved | <input type="checkbox"/> Callback at Auto Test |
| <input type="checkbox"/> Lock Local Programming | <input type="checkbox"/> Reserved |
| <input type="checkbox"/> Lock Communicator Programming | <input type="checkbox"/> Reserved |

8. Edit Remote Access settings for the Panel.

Download Access Code – gives access to DLX900 to access the Panel panel programming.

9. Click System Event Reporting.

The screenshot shows the 'Communicator - 1' window with the 'System Event Reporting' tab selected. The window has a menu bar with 'Send', 'Read', 'Options', and 'Display'. Below the menu bar are two icons: an upward arrow and a downward arrow. The 'System Event Reporting' tab contains the following fields and options:

| Field | Value |
|-----------------|-----------------|
| Attempts | 6 |
| System Channels | Channel Group 1 |

10. Select the channel group to send system events (for example, low battery)

Next

- Perform tests on each of the communication paths to verify they are functioning correctly.
- Program Channels.
- Program Channel Groups.
- Verify Number of Attempts, next channels (back-up channels), and multi-path reporting function correctly.

Programming Instructions for UltraSync

Pre-conditions

1. At least one user has been given a username and PIN code (see “Programming Instructions for Users” on page 28).
2. Panel is connected to internet and has been allocated an IP address (see “Programming Instructions for Communicator” on page 48, IP Config).

Notes

UltraSync provides a secure VPN connection to your Panel over the internet. You will need to provide your Panel serial number, Web Access Passcode, and a valid Username and PIN code that exists in your Panel. These codes provide multiple levels of security for the connection.

The Web Access Passcode is needed for:

- web console over the internet via a secure VPN
- UltraSync+ app
- DLX900 software connecting over IP, in addition to Download Access Code

The Web Access Passcode is NOT needed for:

- email services
- web console over a local LAN connection

Once UltraSync is set up, you may connect to your Panel using the UltraSync+ app on your smartphone or tablet. This may require a separate account and downloading additional software. See further instructions in the User Manual.

Instructions

1. Go to Menu – Communicator – IP Config.

Communicator - 1

Send Read Options Display

Options IP Config Radio Remote Access System Event Reporting

Host name: [] IP address: 192 . 168 . 1 . 222

Gateway: 192 . 168 . 1 . 1 Subnet mask: 255 . 255 . 255 . 0

Primary DNS: 192 . 168 . 1 . 1 Secondary DNS: 0 . 0 . 0 . 0

HTTP Port: 80

HTTPS Port: 443

Internet Time Server: pool.ntp.org

IP Options

| | |
|--|---|
| <input checked="" type="checkbox"/> Enable DHCP | <input checked="" type="checkbox"/> Enable Web Program |
| <input type="checkbox"/> Require SSL | <input checked="" type="checkbox"/> Always Allow DLX900 |
| <input type="checkbox"/> Enable Web Updates | <input type="checkbox"/> Monitor LAN |
| <input checked="" type="checkbox"/> Enable Ping | <input checked="" type="checkbox"/> UltraConnect |
| <input checked="" type="checkbox"/> Enable Clock Updates | |

2. Under sub-menu IP Options, “Enable UltraSync” should be ticked.
3. Go to Menu – UltraSync.

The screenshot shows the 'UltraConnect - 1' window with a menu bar (Send, Read, Options, Display) and a toolbar with upload and download icons. The main configuration area contains the following fields:

| | |
|---------------------|----------------------------|
| Web Access Passcode | 00000000 |
| Ethernet Server 1 | xg1.ultraconnect.com:443 |
| Ethernet Server 2 | xg1.zerowire.com:443 |
| Ethernet Server 3 | |
| Ethernet Server 4 | |
| Wireless Server 1 | xg1w.ultraconnect.com:8081 |
| Wireless Server 2 | xg1w.zerowire.com:8081 |
| Wireless Server 3 | |
| Wireless Server 4 | |

4. Enter a new 8-digit Web Access Passcode. All zeros will disable UltraSync remote access.
5. Click Send – Menu.
6. Disconnect from the panel.
7. Open UltraSync+ on your smartphone or device.
8. Enter the required details into your device/software. This includes panel serial number, Web Access Passcode, and a valid Username and PIN code. The Panel serial number can be found in the Device Info menu.
9. Connect to the panel to verify the settings are correct.

Troubleshooting

- Check the Web Access Passcode is correct. It cannot be 00000000.
- Check there is a valid user with a non-empty First Name in the panel. The First and Last name fields are used as the login name in the UltraSync+ app.
- Check the serial number is correct. It is printed on the panel.
- Check that the user permissions are currently valid.

Programming Instructions for Event Lists

Goal

Create segmented lists of events so Channels can selectively deliver event messages.

Pre-conditions

None.

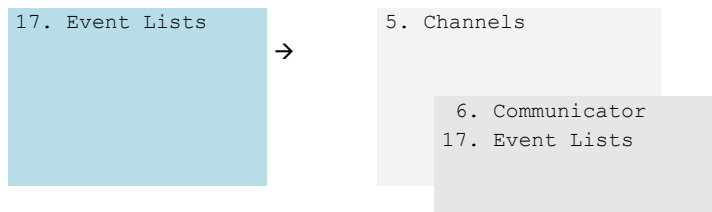
Notes

If an event message is enabled in an Event List, then the Channel will attempt to deliver it. If an event message is not enabled on the Event List, the Channel will not attempt delivery even if the message has been sent to it.

Event List set up for push notifications is automatically performed by the UltraSync+ app when required. The panel will assign the next available channel and matching event list number. No configuration via the web pages or DLX900 is required.

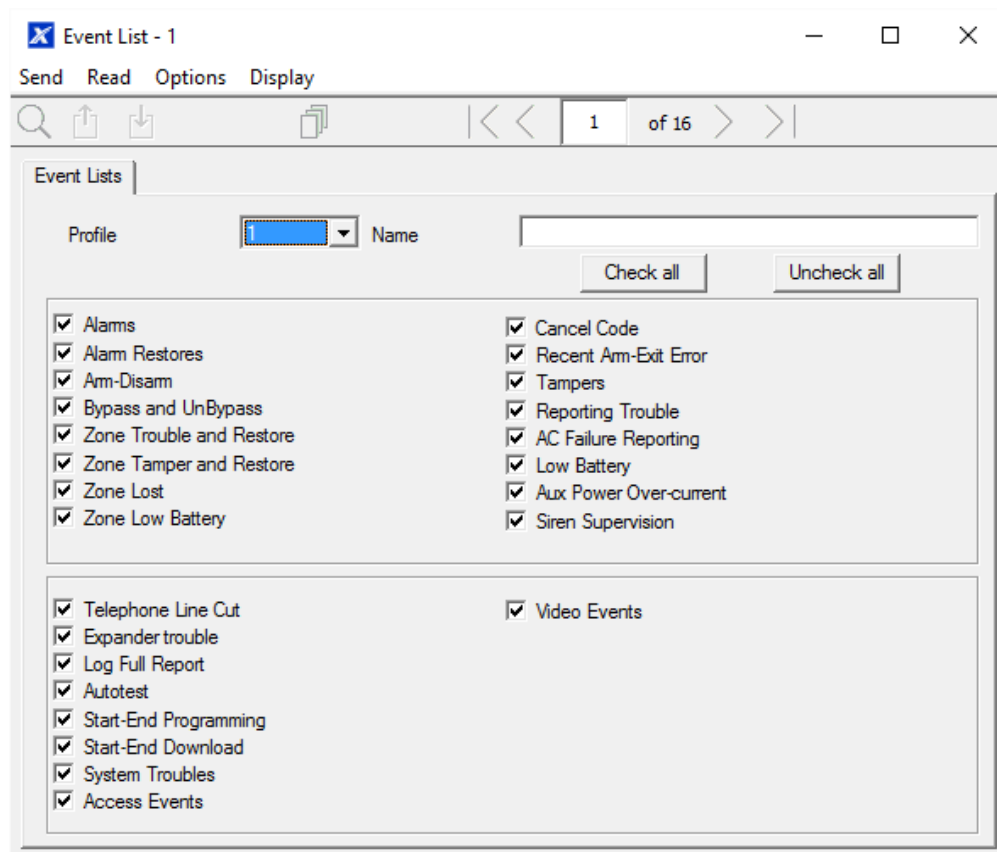
If you wish to create an Event List and protect it from being overwritten by a smartphone for push notification, entering some dummy data in the corresponding Channel number.

Programming Sequence



Instructions

1. Open Event Lists.



2. Enter a name for the list.

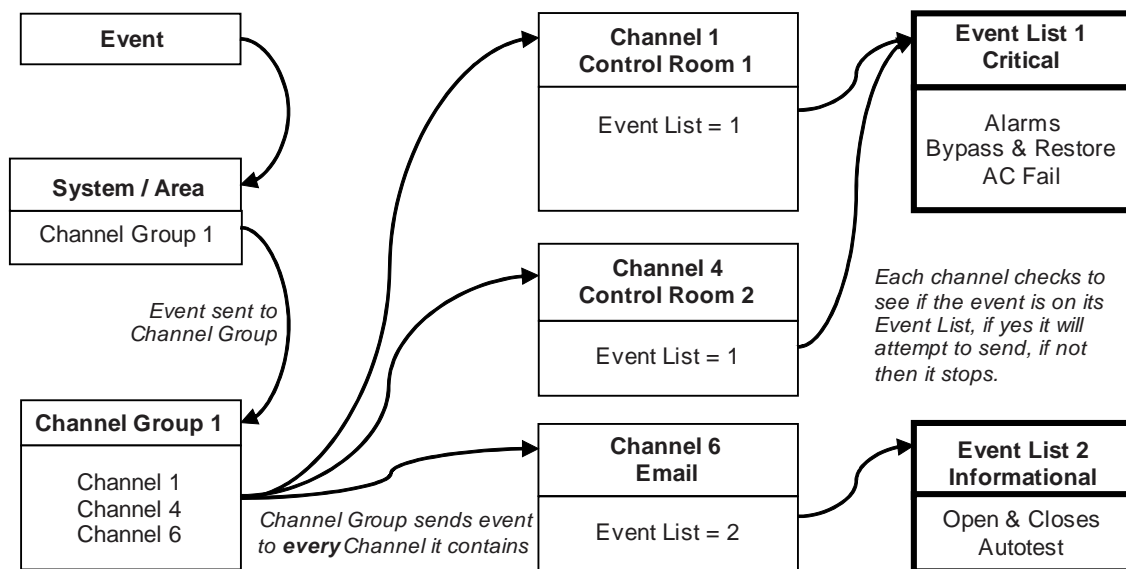
3. Check the events you want to include in the list.

Example

In this example we have created two lists: Critical and Informational. This allows us to selectively deliver event messages to different destinations.

We open up Event Lists and enter the name "Critical". We tick Alarms, Alarm Restores, Bypass and Bypass Restore, and AC Fail Reporting.

Then we click to Event List 2 and enter the name "Informational". Tick Opening and Closing, and Autotest Report.



Programming Instructions for Channels

Goal

Set up communication paths and destinations for delivering event messages.

Pre-conditions

- Communicator must be programmed (see "Programming Instructions for Communicator" on page 48).
- Event Lists must be programmed (see "Programming Instructions for Event Lists" on page 54).

Notes

Area Account Number will take priority over Account Number entered here for Zone events. If no Area Account Number is entered, then this number will be used instead.

Next Channel must be a higher value than the current Channel Number. Circular loops are not permitted.

Take note of the Sequence Attempts under Communicator – System Event Reporting. This is the number of times Panel will attempt the sequence of Channels you set up in this section.

Channel set up for push notifications is automatically performed by the UltraSync+ app when required. The panel will assign the next available channel and matching event list number. No configuration via the web pages or DLX900 is required.

Programming Sequence



Instructions

1. Go to Channels.

The screenshot shows the 'Channels - 1' configuration window. The window has a title bar with a close button and a menu bar with 'Send', 'Read', 'Options', and 'Display'. Below the menu bar is a toolbar with icons for search, copy, paste, and navigation. The main area is titled 'Comm channel' and contains the following fields:

- Channel number: 1 (dropdown)
- Channel Name: Central Station Primary (text box)
- Account Number: 0 (text box)
- Format: Use as Backup (dropdown)
- Device: 1 (dropdown)
- Dest Phone or Email: (empty text box)
- Event List: Event List 1 (dropdown)
- Attempts: 2 (text box)
- Next Channel: 2 (dropdown)
- Language: English (Australia) (dropdown)

2. Enter an Account Number up to 8 digits, hex values are accepted.
3. Select the Format of the communication channel, this will automatically use the settings programmed for that Format in the Communicator menu.
4. Select the reporting device, by default Device 1 is the Panel panel.
5. Enter the destination email address or IP address depending on which Format you selected.
6. Select what events you want to be sent via this Channel by selecting the appropriate Event List. Events that arrive at this channel will be checked that

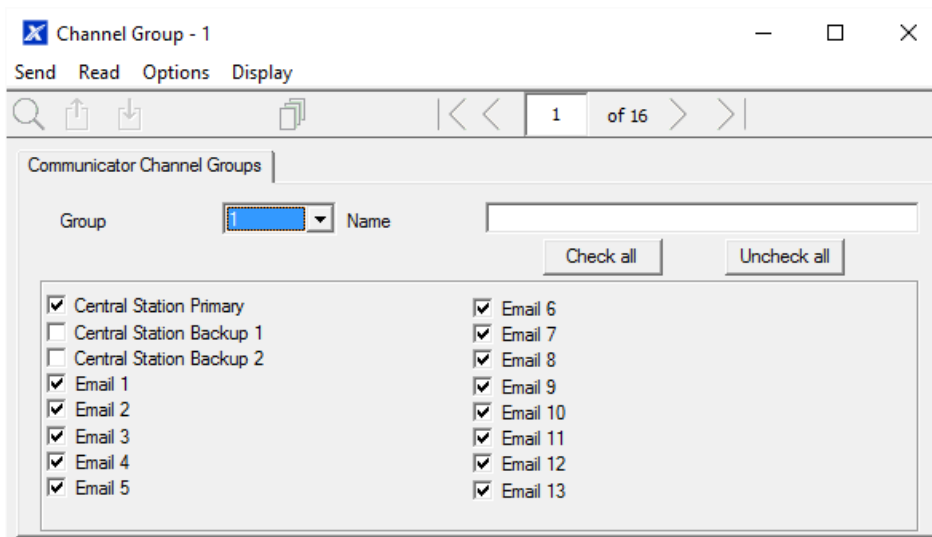
they on this Event List, if they are, then will be routed through this Channel. Events that arrive at this Channel which are not on this list will be blocked.

If the Channel is used for push notifications to UltraSync+ app, the Event List number will be the same as the Channel number.

7. Enter the number of Attempts that you want Panel to try sending the event message on this Channel before switching to the Next Channel.
8. Select the Next Channel Number to use if the event message fails to be sent on this Channel.

Each Channel can have one Next Channel as a backup. This allows you to chain up to 15 backup paths should the primary one fail. Enter Next Channel as 0 to end the chain of channels.

9. You have now finished programming one channel. If you entered a Next Channel, go to that Channel number and program it now.
10. Once you have programmed each channel and backup channel(s) you have completed this section. Check or edit Sequence Attempts under Communicator – System Event Reporting.
11. Go to Channel Groups. Here you will group channels together so selected event messages will be sent to multiple destinations at the same time. Another way to think of Channel Groups is “multi-path reporting”. Note this is in addition to Wi-Fi/Ethernet and Cellular backup where equipped and provisioned by UltraSync Portal.



12. Select each channel you want to be part of a group.
Messages sent to a Channel Group will be checked against each Channel's Event List. If it is on the list, then Panel will attempt to send it. If not, then Panel will not send it, even if the Channel is in the same group.
13. Done. Your Channels are now set up and ready for use. When an event is generated by the system or a zone it can now be sent to a Channel for reporting.

Example

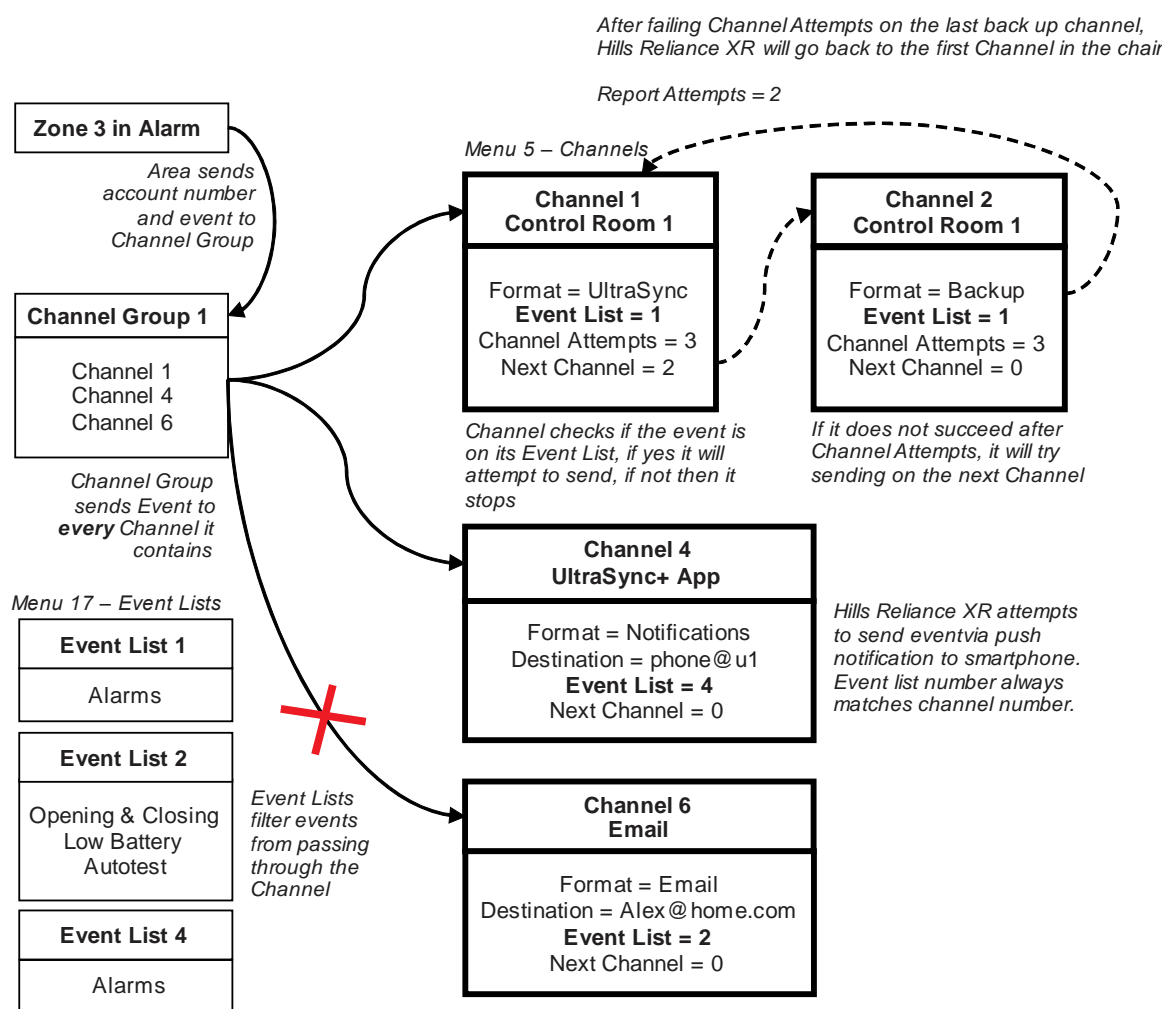
In this example we have multi-path, prioritised/selective event reporting via three reporting paths – one control room with backup, push notification to a smartphone, and an email address. These are grouped into “Channel Group 1”.

All alarms are reported to Control Room 1 and push notification goes to UltraSync+ app installed on User 1’s smartphone. Control room 1 has a backup receiver.

When a channel receives an alarm message, Panel checks that the channel’s Event List includes alarm messages and then attempts to deliver the message via that channel.

When Channel 1/2/4 receives a low battery report, it is ignored because Event List 1 does not include the “low battery” event.

Low priority alerts such as opening and closings, low batteries, and autotest reports, are selected in Event List 2. Channel 6 handles Event List 2 and sends these events as an email to a building manager. When Channel 6 receives the Zone 3 in Alarm event it takes no action because Event List 2 does not include “Alarms”.



Notice that Channel 2 is not selected in Channel Group 1. The Panel will deliver to Channel 2 only if Channel 1 cannot be reached. If Channel 2 were included in Channel Group 1, then the control room may receive duplicate messages.

Next

Program your Areas and Zones.

Programming Instructions for Zone Reporting

Goal

Direct event messages (for example, alarm, bypass, tamper) from zones to specific destinations.

Pre-conditions

- The zone must have valid zone options programmed (see “Programming Instructions for Zones” on page 31), by default you should not need to modify these.
- The zone must be allocated a valid Area Group (see “Programming Instructions for Zones” on page 31).

- Channels and Channel Groups must be programmed (see “Programming Instructions for Channels” on page 56).

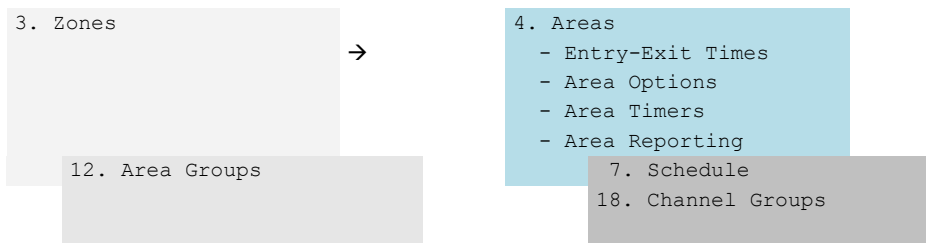
Notes

Each zone may be allocated to multiple Areas through an Area Group.

Events will be sent to the lowest numbered Area in the Area Group.

A zone may have a Second Zone Profile, when this becomes active all events will be sent to the Area Group programmed in the second profile.

Programming Sequence



Instructions

1. Open the lowest Area number for the Zone.

Areas - 1

Send Read Options Display

1 of 16

Area Options | Area Type and Timers | Area Event Reporting

Area Number: 1

Area Name:

Options

| | |
|--|--|
| <input checked="" type="checkbox"/> Arm-Disarm Reports | <input type="checkbox"/> Silent exit |
| <input type="checkbox"/> Quick Away | <input type="checkbox"/> Manual Fire |
| <input type="checkbox"/> Arm In Stay If No Exit | <input type="checkbox"/> Manual Auxiliary |
| <input type="checkbox"/> Quick Stay Mode Disarm | <input type="checkbox"/> Manual Panic |
| <input type="checkbox"/> Siren Chirp Away | <input type="checkbox"/> Use Area 1 Options |
| <input type="checkbox"/> Siren Chirp Stay | <input type="checkbox"/> Bypass Requires PIN |
| <input type="checkbox"/> Force Arm With Bypass | <input type="checkbox"/> Manual Panic is Silent |
| <input type="checkbox"/> Force Arm Without Bypass | <input type="checkbox"/> Arm In instant If No Exit |

2. Go to Area Reporting.

Areas - 1

Send Read Options Display

1 of 16

Area Options | Area Type and Timers | Area Event Reporting

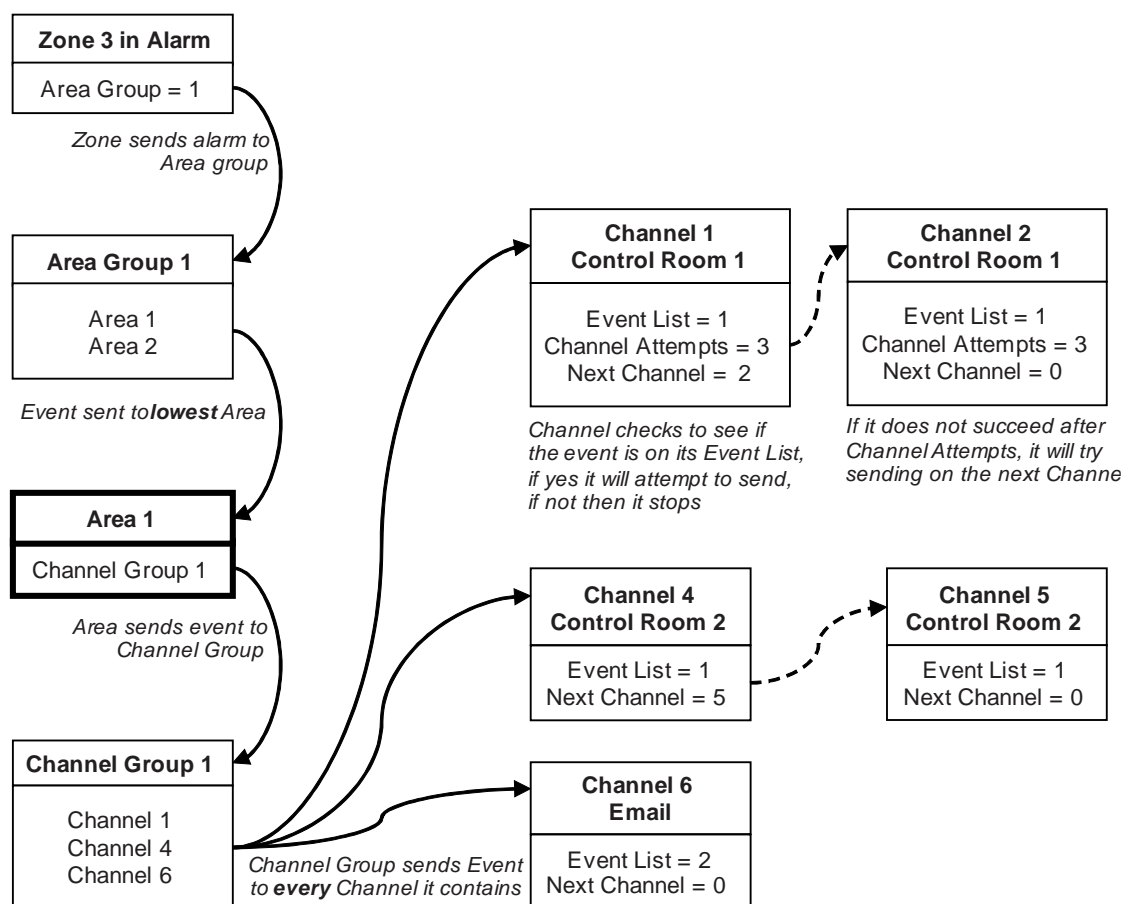
Area Number: 1

Area Account: 0

Area Channels: Channel Group 1

3. Enter an account number.
4. Select a valid Channel Group.
5. Done. All zones that are a part of that Area will now report to the selected Channels within the Channel Group.

Example



Next

- Program Users.
- Program advanced Schedules and Alternate Zone Profiles.

Programming Instructions for System Event Reporting

Pre-conditions

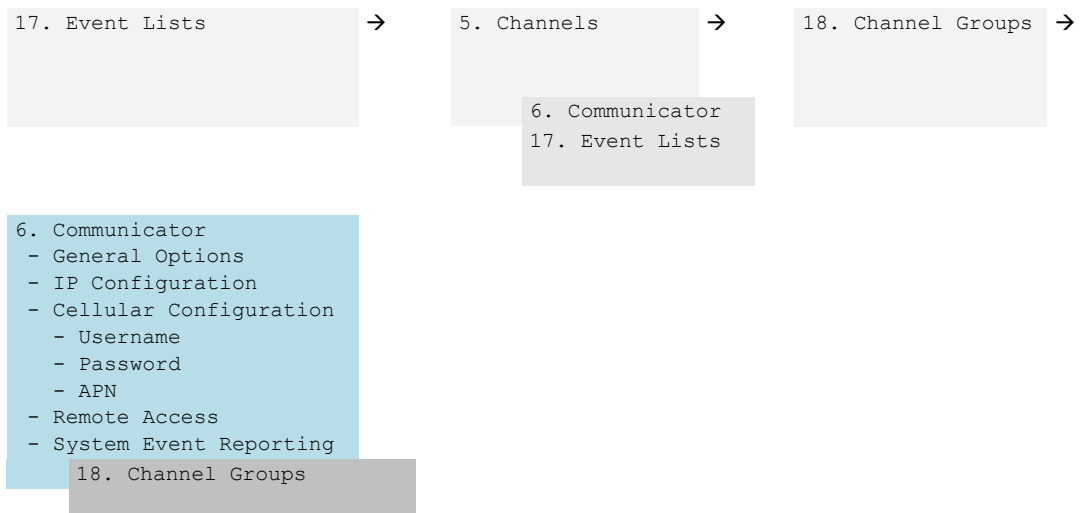
- Communicator must be programmed (see “Programming Instructions for Communicator” on page 48).
- Event Lists must be programmed (see “Programming Instructions for Event Lists” on page 54).
- Channels and Channel Groups must be programmed (see “Programming Instructions for Channels” on page 56).

Notes

The system event will only be reported by a channel, if that Channel includes that event in the associated Event List(s).

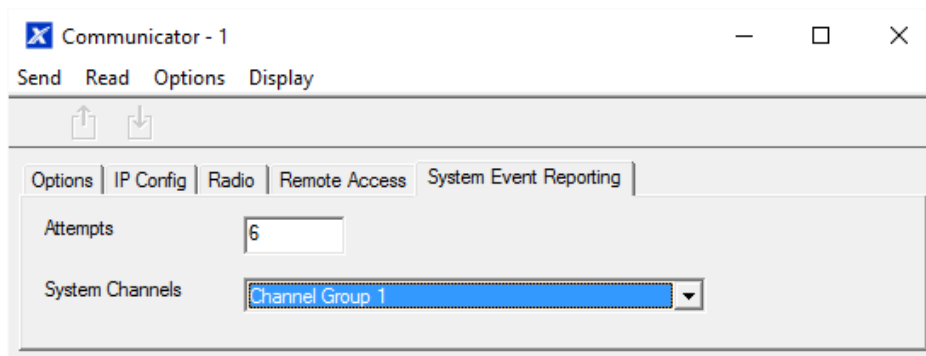
Take note of the Sequence Attempts under Communicator – System Event Reporting. This is the number of times Panel will attempt the sequence of Channels you set up in this section.

Programming Sequence



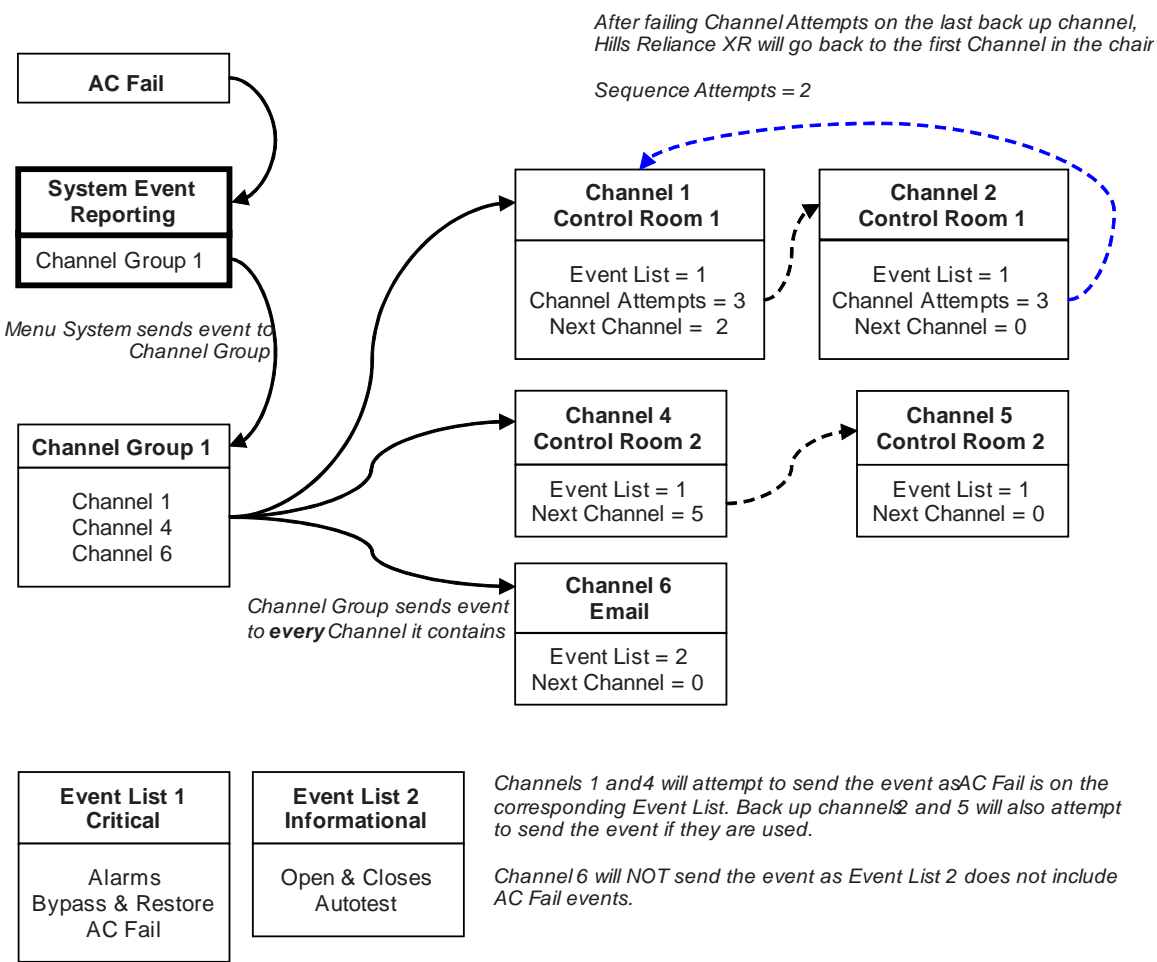
Instructions

1. Go to Communicator, System Event Reporting.



2. Select a Channel Group.
3. Done. The Panel will now report system events to the Channels selected in the Channel Group you just selected.

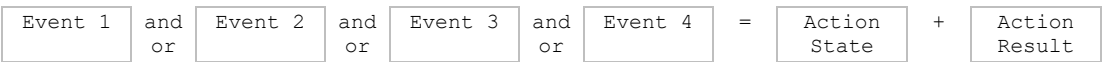
Example



Programming Instructions for Actions

Goal

Create an action to monitor up to four input events and drive one output event (action result).



Pre-conditions

Program the input and output events you want the Action to monitor or control.

Notes

See Panel Reference Guide for more details on Actions.

Write/Plan out on paper what you want to create to make it easier to set up Actions and associated settings.

Actions can be used without programming an Action Result. For example, outputs are controlled by setting them to monitor an action, when the Action State is true the output state will follow.

Programming Sequence

Events to be monitored →

8. Actions

→

19. Action Groups

Instructions

1. Open Actions.

2. Select the Action Number you want to create.
3. Enter a descriptive name for this action.
4. Select the Action Function and the duration (optional) for the **Action State**.
For example, Timed 5 seconds would cause the Action State to activate for 5 seconds when all the conditions in the Event Equation are satisfied.
5. Select the Event 1 logic, this will be applied before Event 1.
For example, "Inverted OR" results in "NOT Event 1".
6. Program the first event by using the Category and Type menus.
7. Enter the Event Range for the selected Category.
For example, if you want to select Areas 1 to 4 then set the Event range Start=1 and End=4.
8. Select Event 2 logic and repeat for the remaining events.

9. If you want to program an action result, click the Result tab.

10. Select the Category, Type, Start and End Range.

11. Test the Action by satisfying the Event Logic and checking the desired response.

Next

- Program the device you want to monitor the Action if needed.
- If you want to control an Output, go to that Output and program it to follow the Action.
- If you want a user or device to have access to the action, then program Action Groups and Permissions.

Programming Instructions for Action Groups

Goal

Create a list of actions a user or device has access to.

Pre-conditions

Program the actions you want to use.

Notes

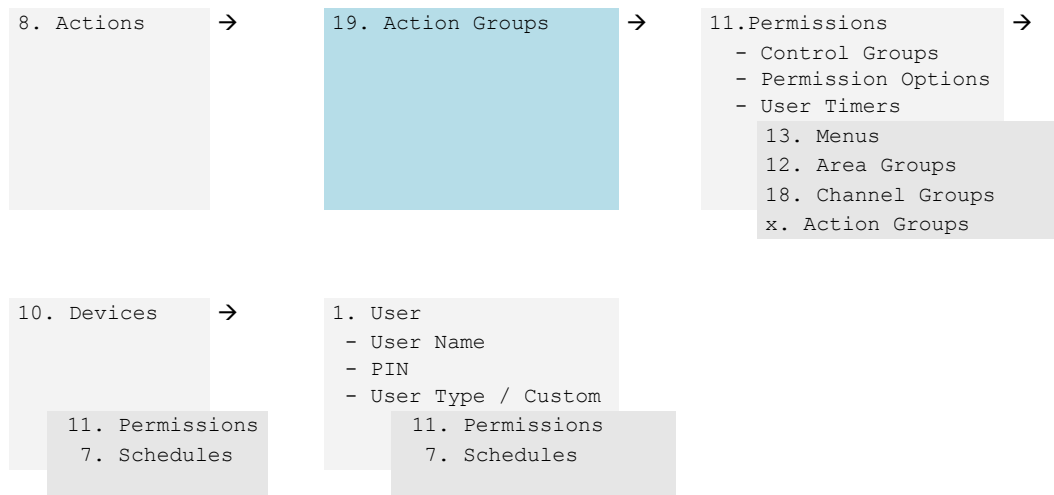
See Panel Reference Guide for more details on Actions.

Action Groups can allow you to create a convenient menu for a user to trigger specific Actions from an NXX-1820-HILLS.

Permissions control what actions a User or Device has access to.

Both the User AND Device need to have access to the desired Action for it to be displayed on an NXX-1820-HILLS screen.

Programming Sequence



Instructions

1. Open Action Groups.

2. Select an Action Group Number.
3. Enter a descriptive Name.
4. Select the Actions you want to include.

Next

- Assign Action Group to a Permission.
- Assign Permission to a User or Device.

Programming Instructions for Scenes

Goal

Create a scene that performs multiple functions when a certain condition is met.

Pre-conditions

The schedule you want the Scene to follow needs to be programmed.

If you wish to perform Z-Wave Device Actions the Z-Wave device(s) must be learnt in.

Notes

User 99 will be reported for alarm system control events.

Programming Sequence

20. Scenes

Schedules
Z-Wave Devices

Instructions

1. Open Scenes.

Scenes - 1

Send Read Options Display

1 of 16

Scenes

Scene: 1 Name: Record Closing

Scene Trigger Type: Exit Delay 1 When Should Scene Work: Always On

Activate Area: Area 1

Scene Results

Scene Results: 1-4

| | 1 | 2 | 3 | 4 |
|---------------------|-------------------------------------|----------|----------|----------|
| Device | (1) Alarm System | Disabled | Disabled | Disabled |
| Action Type | Trigger Camera Video Cl | | | |
| Action-Zn/Area/User | | | | |
| Cool Set Point | <input checked="" type="checkbox"/> | | | |
| Heat Set Point | <input type="checkbox"/> | | | |

16

2. Select Event Type and the Area.
3. Select the Schedule that will determine when this Scene is active.
4. Now program the sequence of actions that you want to happen.

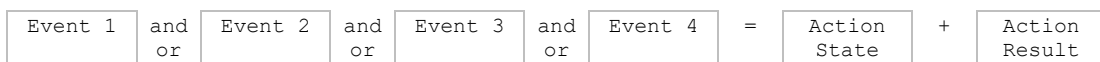
Example

When Exit Delay 1 is running in the Office Area, set Camera 1 to start recording.

Programming Instructions for Outputs

Goal

Turn an output on or off according to an Action.



Pre-conditions

Program the Action and any associated components.

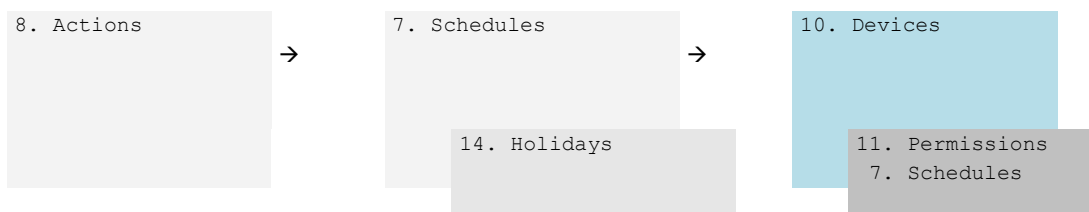
Notes

See Panel Reference Guide for more details on Actions.

Write/Plan out on paper what you want to create. This makes it easier to set up Actions and associated settings.

Actions can be used without programming an Action Result. For example, outputs on Panel are controlled by monitoring an Action State, no Action Result needs to be programmed.

Programming Sequence

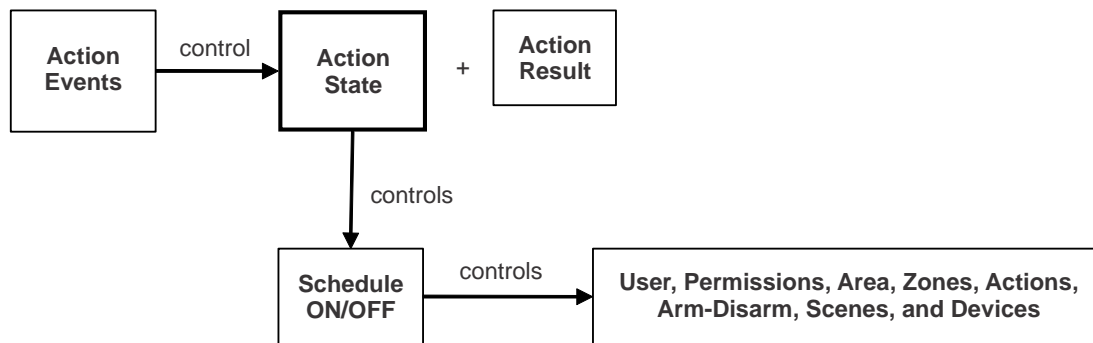


Instructions

1. Select the Device that has the physical outputs you want to control.
2. Select Outputs.
3. Select Action.
4. Select the Schedule.

Combining Actions with Schedules

Schedules can control when a user has access, when an automatic Arm-Disarm occurs, when devices can be used, and more. Actions can turn Schedules on and off, making Schedules conditional based on when certain events occur.



Arm-Disarm, Scenes, and Devices, based on various system conditions. This provides automation features that allows the system to respond in real-time to changing conditions.

This functionality is achieved by going to that Schedule and selecting Follow Action Number.

Take care when combining multiple schedules and actions as troubleshooting can get confusing. Always check and test functionality a single step at a time. Users and Zones can have multiple levels of permissions, be sure to check that each permission level is appropriate at all times.

Example

When a certain user is in the building, we can prevent an automatic Arm-Disarm from occurring.

First program an Action with the conditions you want and the Duration of the Action if necessary.

Next program Arm-Disarm with a User and Schedule.

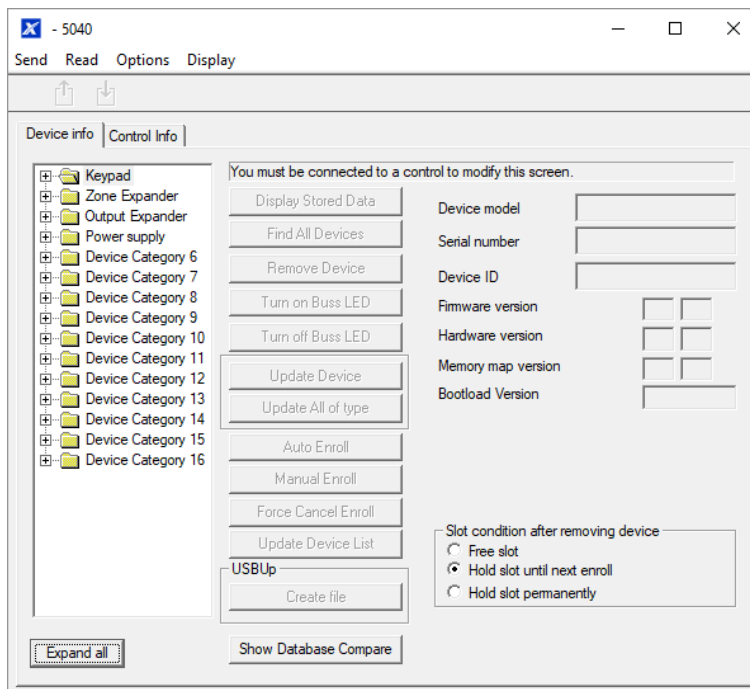
Then set the Schedule to Follow Action Number.

When the action events are met, then the Schedule will become active and will be able to perform an Arm-Disarm at the appropriate time. If the conditions are not met, then the Arm-Disarm will never occur.

Upgrading Firmware using DLX900

Firmware upgrade of the control panel and expansion modules can be performed using DLX900 instead of the USBUP tool.

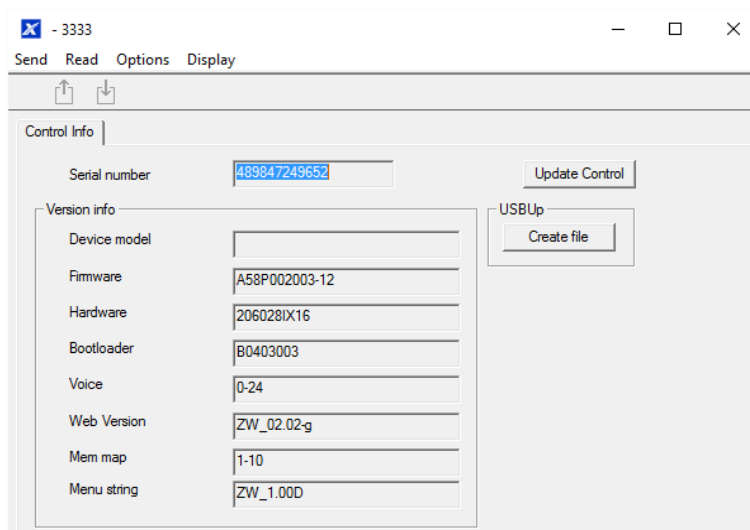
1. Obtain the new firmware file, it will have file extension MIF3.
2. Open DLX900.
3. Connect to your device. “Connect Using Known IP Address” over Ethernet will provide faster speed and is preferred over cellular.
4. Click Devices – Device Info.
5. If updating an expansion module, expand the device tree and select it:



Then click “Update Device” or “Update All of type”.

6. If updating the panel, click Control Info.

Then click “Update Control”.



7. Select the MIF3 file for that device.
8. Click OK.
9. Wait while the firmware to transfer to the device.

Tips:

- If the firmware fails, the device is unaffected. Disconnect from the panel, reconnect, then retry the firmware update from the start.
- If firmware update repeatedly fails, try switching to an Ethernet connection or using a USBUP on-site.
- During firmware update do not operate the panel. This will reduce activity on the bus to allow the firmware to transfer.

FAQ

Legacy DL900 does not open, it shows “The Microsoft jet database engine cannot open the file”

1. Close DL900.
2. Right click DL900 icon.
3. Click “Run as Administrator”
4. Click Yes to User Access Control request.

DLX900 asks me to create a new passcode

To be more secure, if DLX900 has the default operator of Caddx with password 1234, it will prompt you to change it. Select a new passcode of at least 6 characters.

Where is the DLX900 database stored on Windows 10?

DLX900 stores the database under one of two locations depending on what you select during installation:

- C:\Users\Public\Public Documents\DLX900
- C:\Users\[Current User]\Documents\DLX900

I am having issues with my current DLX900 database.

To reset DLX900 to factory default and start fresh:

1. Close DLX900.
2. Open Windows Explorer.
3. Navigate to the folder with your database.
4. Rename the DLX900 folder to DLX900old.
5. Move DLX900old to another location.
6. Uninstall DLX900.
7. Install the latest version of DLX900. This will automatically create a new blank database when it cannot locate an existing database.

How do I backup my entire database?

Regular backups or exports of your customer data will allow you to recover customer panel programming in the event of database corruption or computer issues.

1. Open DLX900.
2. Click Tools – Backup Database.
3. Select a folder to store the backup. Highly recommended this file is moved off this computer (for example, encrypted USB disk).
4. Click OK.

Tip: Use the Tools – Compact Database feature before performing a backup to reduce the file size.

Tip: DLX900 will regularly prompt you to make a backup of the database. Select a location you will remember in case you need to recover your data.

How do I restore my entire database?

The database restore feature can only work with files created using the Backup Database feature. The default filename is DLX900.DL1.

1. Open DLX900.
2. Click Tools – Restore Database.
3. Select your database backup file.
4. Click OK.

How do I backup/export selected customers?

1. Open DLX900.
2. Click Tools – Export Customers.
3. Enter the customer account numbers to backup.
4. Click OK.
5. Select a folder to store the customer data.
6. Click OK.

Tip: this file can be sent to installers with only the details of the selected customer and not the entire database.

How do I import customers?

1. Open DLX900.
2. Click Tools – Import Customers.
3. Select the file previously created with the Export Customers feature.
4. Click OK.
5. The customer(s) from the file are merged with your current DLX900 database.

Sending data to panel doesn't always work

Ensure you have logged out of any web pages or UltraSync+ app. DLX900 must have exclusive download/programming access to the panel. Connect with DLX900 and try sending data again.

This is particularly important for programming of Users and any network / remote access settings.

How do I use a USBUP to program multiple sites that are similar?

1. Create a new Customer.
2. Program all desired panel settings.

3. Click Devices – Device Info – Control Info.
4. Under USBUP, click “Create File”.
5. Select a location to save the file.
6. Plug-in your USBUP 5.01 or above.
7. Create a new folder such as “XR”.
8. Copy the MIF3 file into the XR folder.
9. Unplug the USBUP.
10. Connect the programming cable to the panel. Make sure it is on the panel USBUP port (some panels have multiple USBUP ports).
11. Plug the USBUP into the programming cable.
12. Push the button on the USBUP.
13. The LED on the USBUP will flash to indicate it is programming the panel. The panel bus will become unavailable during programming, keypads may go offline.
14. The LED will remain yellow once programming is completed. The LED will flash red if there is a problem.
15. Unplug the USBUP.

Can I learn wireless transmitters / sensors using DLX900?

DLX900 is unable to perform the learn procedure. However, once learnt in their settings can be modified with DLX900 and their serial numbers will be displayed.

Wireless transmitters can be learnt into the panel using:

- Panel web page – Settings – Zones / Sensors
- Panel keypad (on ZeroWire)
- UltraSync+ app

The wireless transmitters must be within RF range of the panel for the learning to succeed.

Note: Typing in the serial number is not sufficient to enable all wireless transmitter features.

How do I backup / restore wireless transmitter data?

Wireless transmitter programming is stored in a separate location within DLX900. All sensor data is copied to DLX900 up when you perform a READ ALL.

To restore sensor programming (for example, replacing an alarm panel and keeping the existing wireless transmitters):

1. Click Connect.
2. Click Send All. This will restore all panel programming without transmitter data.

3. Click Devices – Transmitters – Send – Send Menu. This will restore all wireless transmitter programming.

Can I learn Z-Wave devices using DLX900?

DLX900 is unable to perform the include function for new Z-Wave devices.

Z-Wave devices must be added to the panel using either:

- Panel web page – Settings – Z-Wave Add/Remove
- UltraSync+ app

The device must be on-site next to the panel in order for the include function to take place.

Once learnt in, Z-Wave settings can be modified with DLX900 under Devices – Z-Wave and the Scenes menu.

How do I backup / restore Z-Wave data?

Z-Wave devices are stored in a separate location within DLX900. All Z-Wave network data is backed up when you perform a READ ALL.

To restore Z-Wave device programming (for example, replacing an alarm panel and keeping the existing Z-Wave devices):

1. Click Connect.
2. Click Send All. This will restore all panel programming, automation scenes, and send a copy of the Z-Wave database to the panel (but not activate it).
3. Click Devices – ZWave – Restore Network. This will restore all Z-Wave network and node information from the backup copy stored in the panel.

How do I change UltraSync Servers?

Only if instructed by Tech Support:

1. Log in to DLX900.
2. Click Program.
3. Click Setup.

4. Click TCP/IP Settings.

Auto Callback Port for NetworX: 9998

Auto Callback Port for xGen/Zerowire: 41796

xTun Server Port: 80

Webauth A Server: webauth-a.ultraconnect.com

Webauth B Server: webauth-b.ultraconnect.com

IP Addresses on this computer

This information may be useful when the system and the Download software are on the same network.

Adapter: Intel(R) 82578DM Gigabit Network Conne...

Address: 192.168.25.154 ☒ DHCP Enabled

Subnet mask: 255.255.255.0

Gateway: 192.168.25.1

Computer name: SHIRLEY

OK Cancel

5. Default ports are:

Auto Callback Port for NetworX: **9998**

Auto Callback Port for xGen/ZeroWire: **41796**

xTun Server Port: **80**

6. Replace webauth server addresses with the settings provided to you from Tech Support. The defaults are:

Webauth A Server: webauth-a.ultraconnect.com

Webauth B Server: webauth-b.ultraconnect.com

7. Click OK.

8. Select the Customer panel you wish to connect to.

9. Follow the steps under “Using UltraSync Connection” on page 14. DLX900 will connect to the panel via the new server specified.

