NOTIFIER®
by Honeywell

ONYX®
Configuration Tool
Installation and Operation Manual

Document LS10050-007NF-E Rev: F
2/12/2021 ECN: 150924

Fire Alarm & Emergency Communication System Limitations

While a life safety system may lower insurance rates, it is not a substitute for life and property insurance!

An automatic fire alarm system—typically made up of smoke detectors, heat detectors, manual pull stations, audible warning devices, and a fire alarm control panel (FACP) with remote notification capability—can provide early warning of a developing fire. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire.

An emergency communication system—typically made up of an automatic fire alarm system (as described above) and a life safety communication system that may include an autonomous control unit (ACU), local operating console (LOC), voice communication, and other various interoperable communication methods—can broadcast a mass notification message. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire or life safety event.

The Manufacturer recommends that smoke and/or heat detectors be located throughout a protected premises following the recommendations of the current edition of the National Fire Protection Association Standard 72 (NFPA 72), manufacturer's recommendations, State and local codes, and the recommendations contained in the Guide for Proper Use of System Smoke Detectors, which is made available at no charge to all installing dealers. This document can be found at http://www.systemsensor.com/appguides/. A study by the Federal Emergency Management Agency (an agency of the United States government) indicated that smoke detectors may not go off in as many as 35% of all fires. While fire alarm systems are designed to provide early warning against fire, they do not guarantee warning or protection against fire. A fire alarm system may not provide timely or adequate warning, or simply may not function, for a variety of reasons:

Smoke detectors may not sense fire where smoke cannot reach the detectors such as in chimneys, in or behind walls, on roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level or floor of a building. A second-floor detector, for example, may not sense a first-floor or basement fire.

Particles of combustion or "smoke" from a developing fire may not reach the sensing chambers of smoke detectors because:

- Barriers such as closed or partially closed doors, walls, chimneys, even wet or humid areas may inhibit particle or smoke flow.
- Smoke particles may become "cold," stratify, and not reach the ceiling or upper walls where detectors are located.
- Smoke particles may be blown away from detectors by air outlets, such as air conditioning vents.
- Smoke particles may be drawn into air returns before reaching the detector.

The amount of "smoke" present may be insufficient to alarm smoke detectors. Smoke detectors are designed to alarm at various levels of smoke density. If such density levels are not created by a developing fire at the location of detectors, the detectors will not go into alarm.

Smoke detectors, even when working properly, have sensing limitations. Detectors that have photoelectronic sensing chambers tend to detect smoldering fires better than flaming fires, which have little visible smoke. Detectors that have ionizing-type sensing chambers tend to detect fast-flaming fires better than smoldering fires. Because fires develop in different ways and are often unpredictable in their growth, neither type of detector is necessarily best and a given type of detector may not provide adequate warning of a fire.

Smoke detectors cannot be expected to provide adequate warning of fires caused by arson, children playing with matches (especially in bedrooms), smoking in bed, and violent explosions (caused by escaping gas, improper storage of flammable materials, etc.).

Heat detectors do not sense particles of combustion and alarm only when heat on their sensors increases at a predetermined rate or reaches a predetermined level. Rate-of-rise heat detectors may be subject to reduced sensitivity over time. For this reason, the rate-of-rise feature of each detector should be tested at least once per year by a qualified fire protection specialist. Heat detectors are designed to protect property, not life.

IMPORTANT! Smoke detectors must be installed in the same room as the control panel and in rooms used by the system for the connection of alarm transmission wiring, communications, signaling, and/or power. If detectors are not so located, a developing fire may damage the alarm system, compromising its ability to report a fire.

Audible warning devices such as bells, horns, strobes, speakers and displays may not alert people if these devices are located on the other side of closed or partly open doors or are located on another floor of a building. Any warning device may fail to alert people with a disability or those who have recently consumed drugs, alcohol, or medication. Please note that:

- An emergency communication system may take priority over a fire alarm system in the event of a life safety emergency.
- Voice messaging systems must be designed to meet intelligibility requirements as defined by NFPA, local codes, and Authorities Having Jurisdiction (AHJ).
- Language and instructional requirements must be clearly disseminated on any local displays.
- Strobes can, under certain circumstances, cause seizures in people with conditions such as epilepsy.
- Studies have shown that certain people, even when they hear a fire alarm signal, do not respond to or comprehend the meaning of the signal. Audible devices, such as horns and bells, can have different tonal patterns and frequencies. It is the property owner's responsibility to conduct fire drills and other training exercises to make people aware of fire alarm signals and instruct them on the proper reaction to alarm signals.
- In rare instances, the sounding of a warning device can cause temporary or permanent hearing loss.

A life safety system will not operate without any electrical power. If AC power fails, the system will operate from standby batteries only for a specified time and only if the batteries have been properly maintained and replaced regularly.

Equipment used in the system may not be technically compatible with the control panel. It is essential to use only equipment listed for service with your control panel.

Alarm Signaling Communications:

- **IP connections** rely on available bandwidth, which could be limited if the network is shared by multiple users or if ISP policies impose restrictions on the amount of data transmitted. Service packages must be carefully chosen to ensure that alarm signals will always have available bandwidth. Outages by the ISP for maintenance and upgrades may also inhibit alarm signals. For added protection, a backup cellular connection is recommended.
- **Cellular connections** rely on a strong signal. Signal strength can be adversely affected by the network coverage of the cellular carrier, objects and structural barriers at the installation location. Utilize a cellular carrier that has reliable network coverage where the alarm system is installed. For added protection, utilize an external antenna to boost the signal.
- **Telephone lines** needed to transmit alarm signals from a premise to a central monitoring station may be out of service or temporarily disabled. For added protection against telephone line failure, backup alarm signaling connections are recommended.

The most common cause of life safety system malfunction is inadequate maintenance. To keep the entire life safety system in excellent working order, ongoing maintenance is required per the manufacturer's recommendations, and UL and NFPA standards. At a minimum, the requirements of NFPA 72 shall be followed. Environments with large amounts of dust, dirt, or high air velocity require more frequent maintenance. A maintenance agreement should be arranged through the local manufacturer's representative. Maintenance should be scheduled as required by National and/or local fire codes and should be performed by authorized professional life safety system installers only. Adequate written records of all inspections should be kept.

Limit-F-2020

Installation Precautions

Adherence to the following will aid in problem-free installation with long-term reliability:

WARNING - Several different sources of power can be connected to the fire alarm control panel. Disconnect all sources of power before servicing. Control unit and associated equipment may be damaged by removing and/or inserting cards, modules, or interconnecting cables while the unit is energized. Do not attempt to install, service, or operate this unit until manuals are read and understood.

CAUTION - System Re-acceptance Test after Software Changes: To ensure proper system operation, this product must be tested in accordance with NFPA 72 after any programming operation or change in site-specific software. Re-acceptance testing is required after any change, addition or deletion of system components, or after any modification, repair or adjustment to system hardware or wiring. All components, circuits, system operations, or software functions known to be affected by a change must be 100% tested. In addition, to ensure that other operations are not inadvertently affected, at least 10% of initiating devices that are not directly affected by the change, up to a maximum of 50 devices, must also be tested and proper system operation verified.

This system meets NFPA requirements for operation at 0-49º C/ 32-120º F and at a relative humidity 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15-27º C/60-80º F.

Verify that wire sizes are adequate for all initiating and indicating device loops. Most devices cannot tolerate more than a 10% I.R. drop from the specified device voltage.

Like all solid state electronic devices, this system may operate erratically or can be damaged when subjected to lightning induced transients. Although no system is completely immune from lightning transients and interference, proper grounding will reduce susceptibility. Overhead or outside aerial wiring is not recommended, due to an increased susceptibility to nearby lightning strikes. Consult with the Technical Services Department if any problems are anticipated or encountered.

Disconnect AC power and batteries prior to removing or inserting circuit boards. Failure to do so can damage circuits.

Remove all electronic assemblies prior to any drilling, filing, reaming, or punching of the enclosure. When possible, make all cable entries from the sides or rear. Before making modifications, verify that they will not interfere with battery, transformer, or printed circuit board location.

Do not tighten screw terminals more than 9 in-lbs. Over-tightening may damage threads, resulting in reduced terminal contact pressure and difficulty with screw terminal removal.

This system contains static-sensitive components. Always ground yourself with a proper wrist strap before handling any circuits so that static charges are removed from the body. Use static suppressive packaging to protect electronic assemblies removed from the unit.

Units with a touchscreen display should be cleaned with a dry, clean, lint free/microfiber cloth. If additional cleaning is required, apply a small amount of Isopropyl alcohol to the cloth and wipe clean. Do not use detergents, solvents, or water for cleaning. Do not spray liquid directly onto the display.

Follow the instructions in the installation, operating, and programming manuals. These instructions must be followed to avoid damage to the control panel and associated equipment. FACP operation and reliability depend upon proper installation.

Precau-D2-11-2017

FCC Warning

WARNING: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause interference to radio communications. It has been tested and found to comply with the limits for Class A computing devices pursuant to Subpart B of Part 15 of FCC Rules, which is designed to provide reasonable protection against such interference when devices are operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user will be required to correct the interference at his or her own expense.

Canadian Requirements

This digital apparatus does not exceed the Class A limits for radiation noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la classe A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

HARSH™, **NIS™**, and **NOTI•FIRE•NET** are all trademarks; and **Acclimate® Plus™**, **eVance®**, **FlashScan®**, **FAAST Fire Alarm Aspiration Sensing Technology®**, **Honeywell®**, **Intelligent FAAST®**, **NOTIFIER®**, **ONYX®**, **ONYXWorks®**, **SWIFT®**, **VeriFire®**, and **VIEW®** are all registered trademarks of Honeywell International Inc. **Microsoft®** and **Windows®** are registered trademarks of the Microsoft Corporation. **Chrome™** and **Google™** are trademarks of Google Inc. AutoCAD® is a registered trademark of Autodesk, Inc.

©2021 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

Software Downloads

In order to supply the latest features and functionality in fire alarm and life safety technology to our customers, we make frequent upgrades to the embedded software in our products. To ensure that you are installing and programming the latest features, we strongly recommend that you download the most current version of software for each product prior to commissioning any system. Contact Technical Support with any questions about software and the appropriate version for a specific application.

Documentation Feedback

Your feedback helps us keep our documentation up-to-date and accurate. If you have any comments or suggestions about our on-line help or manuals, please email us at FireSystems.TechPubs@honeywell.com.

On-Line Help – Please include the following information:

- Product name and version number (if applicable)
- Topic title
- The content you think should be corrected/improved
- Detailed suggestions for correction/improvement

Documents – Please include the following information:

- Document part number and title
- Page number and paragraph
- The content you think should be corrected/improved
- Detailed suggestions for correction/improvement

Please Note: If you have any technical issues, please contact Technical Services.

Manual Usage

This manual is written with the understanding that the user has been trained in the proper operations and services for this product. The information provided in this manual is intended to assist the user by describing the configurations and how they affect operations.

Table of Contents

Section 1 Overview 7
1.1: Usage 7
1.1.1: Smoke Control Feature 7
1.2: Launching and Exiting the Configuration Tool 7
Table 1.1 Configuration Tool Start Options in Windows 7
1.3: Creating Database Backgrounds 8
1.3.1: Supported Graphic Formats 8
Table 1.2 Supported Graphic Formats 8
1.3.2: DXF File Import Limitations/Recommendations 8
Table 1.3 DXF File Limitations/Recommendations 8
1.4: Data Locations on the Directory 9
Table 1.4 Data Directory Locations 9
1.5: FirstVision System Design File Size Limitations 9

Section 2 Layout and Menus 10
2.1: Configuration Tool Layout 10
Figure 2.1 Configuration Tool Floorplan Editor Screen Features 10
2.2: Configuration Tool Menus and Toolbars 11
Table 2.1 Configuration Tool Menus and Floorplan Toolbars 11

Section 3 System Configuration 13
3.1: Overview 13
3.2: Creating Database Objects 13
3.2.1: Saving the Settings 13
Table 3.1 Saving Settings in the Configuration Tool 13
3.2.2: Adding a Screen 13
Table 3.2 Screen Properties Dialog Box Features 14
3.2.3: Adding Points Using the Auto-place Feature 14
3.2.3.1: Configuring Points in the DXF File 14
3.2.3.2: Auto-placing the Points 15
Figure 3.1 Device Icon Importer Screen 15
3.2.3.3: Auto-placing Points on Existing Screens 16
3.2.4: Manually Adding Points to a Screen 16
3.2.4.1: Adding a Point Using the System Tree 16
3.2.4.2: Copying or Moving Points From Another Screen 16
3.2.4.3: Adding an Individual Point 17
Table 3.3 Point Properties Settings 17
3.2.5: Adding a Navigation Icon 18
Table 3.4 Navigation Icon Properties Settings 18
3.2.6: Adding a Navigation Area 18
3.2.7: Macros 18
3.2.7.1: Macro Commands Overview 18
3.2.7.2: Creating a Macro 19
Table 3.5 Macros Window Configuration Settings 19
3.2.7.3: Adding a Macro Button 19
Table 3.6 Macro Button Properties Settings 19
3.2.8: Adding an Information Label 20
Table 3.7 Information Label Properties Settings 20
3.2.9: Adding an Audio Button 20
Table 3.8 Audio Button Properties Settings 20
3.2.10: Supported Linked Media Formats 20

Section 4 Configuration Tool Functions 21
4.1: Networks 21
4.1.1: Importing Network Configuration Data 21
4.1.2: Creating Network Connections 21
4.1.2.1: Adding a Network 21
4.1.2.2: Adding Nodes to a Network 21
4.1.2.3: Deleting Networks and Nodes 21
4.2: Setting Up System Options 22
Table 4.1 System Options Configuration 22
4.3: Graphics Menu Functions 23

4.3.1: Default Icons Window 23
Figure 4.1 Default Icons Window Features 23
4.3.1.1: Selecting an Icon Set 24
4.3.1.2: Custom Icon Recommendations 24
Table 4.2 Affect of Non-PNG Icon File on Background 24
Table 4.3 Affects of Icon Color on Alarm Reporting 24
4.3.2: Status Classes Window 25
Figure 4.2 Status Classes Window Features 25
4.3.3: Floorplan Options Window 26
Figure 4.3 Floorplan Options Window Features 26
4.4: Using Database Editor 27
Figure 4.4 Database Editor Window Features 27
Table 4.4 Column Right-Click Menu Options 27
4.5: User Configuration 28
4.5.1: User Definitions 28
4.5.2: Assigning User Permissions in Canada 28
4.5.3: User Permissions 28
Table 4.5 Basic PC Functionality 28
Table 4.6 Canada User Permissions and Settings 28
4.5.4: Point Controls 29
4.5.5: User Security Options 29
Table 4.7 Security Option Descriptions - Available Workstation Menu Options 29
Table 4.8 Security Option Descriptions - Available Workstation Menu Options 30
4.5.6: User Additions and Modifications 31
4.5.6.1: Adding a User 31
4.5.6.2: Modifying a User Profile 31
4.5.6.3: Changing a User Password 31
4.6: Monitoring Profile Configuration 32
4.6.1: Overview 32
4.6.2: Adding a New Monitoring Profile 32
4.6.3: Copying a Monitoring Profile 32
4.6.4: Deleting a Monitoring Profile 32
4.6.5: Logged-Out Monitoring Profile 32
4.7: Control Profile Configuration 32
4.7.1: Control Profiles Overview 32
4.7.2: Adding a New Control Profile 33
4.7.3: Copying a Control Profile 33
4.7.4: Deleting a Control Profile 33
4.8: Chemicals Window 34
Figure 4.5 Chemical Window Features 34

Section 1 Overview

1.1 Usage

The configuration tool is used to configure the system that is to be monitored by the ONYXWorks Workstation (P/N ONYXWORKS-WS) and ONYX®FirstVision.

While the same configuration tool is used to configure both the workstation and FirstVision, certain configuration options may only apply to one of the applications.

The workstation and FirstVision configuration primarily includes the following:

- Identifying the networks to be monitored
- Laying out the graphical floorplans representing the monitored facility
- Setting the parameters for system operation

In addition, workstation configuration also includes the following:

- Creating macros
- Configuring profiles for node control and selective monitoring

In the tool's floorplan screen, icons that represent system devices, display information, execute preconfigured macros, and navigate the system may be placed.

Once the system is configured, a first responder may use the configured system in the workstation or FirstVision to identify the location of, and respond to, an annunciated event.

After modifying a graphics design in the configuration tool, verify it is correctly displayed on the workstation or FirstVision.

On the workstation, the configuration tool is installed along with the workstation software. On FirstVision, the configuration tool software is shipped on a USB drive.

1.1.1 Smoke Control Feature

An optional smoke control feature is available for the ONYXWorks Workstation. This option allows users with Administrator and Point Control privileges to monitor and control smoke control systems in the monitored buildings. For detailed information about this option, refer to LS10050-012NF-E *OW-SCS Configuration and Operation Manual*.

1.2 Launching and Exiting the Configuration Tool

NOTE: The configuration tool can be launched and used to configure a workstation that does not have an active software license. However, the configured features may not fully operate until the workstation has the appropriate license.

Launch the configuration tool using one of the following methods:

- From within the workstation application, go to **Menu> Configure > Launch Configuration Tool**.
- From Windows 10:
  1. Click **Start**
  2. Type "**Configuration Tool**" in the search field and press **Enter**.
  3. Click the configuration tool application link in the search results window. The configuration tool opens.
  4. Select the applicable option in the table below and then click **OK**.

Table 1.1 Configuration Tool Start Options in Windows

Option	Description
Live System	Opens the configuration tool which uses the system database currently on the workstation PC. Displays only if the PC has the workstation software application installed.
New System	Creates a new, blank system database. After editing and saving the new system, it may be imported by a live workstation at a later time.
Browse	Allows selection and editing of an existing system's database. After saving, the edited system may be imported by a live workstation at a later time. Use one of the following methods: • Select for editing an existing remote system by entering the IP address of the remote PC. • Select for editing an existing system on the current PC by browsing for, and opening, the desired "Matrix.mdb" file. **Note:** If the selected system was created using an older version of the workstation software, it will be upgraded before allowing the user to perform editing.

To exit the configuration tool, go to **File > Exit** and respond to the prompts that display.

1.3 Creating Database Backgrounds

It is highly recommended that graphic background drawings (i.e. floorplans displayed as a background for a system screen) be created before starting to create the system design with the configuration tool. A graphic software application is required for creating and/or resizing the graphics backgrounds.

Use the configuration tool to add the backgrounds that are created or modified as specified in 3.2.2, "Adding a Screen". The better the resolution of the background imported to the configuration tool, the better the resolution on the workstation.

1.3.1 Supported Graphic Formats

The supported graphic formats that can be added as a background are listed in the following table. The graphic file that is imported cannot have a read only attribute.

Table 1.2 Supported Graphic Formats

File Type	Supported Formats	Comment
AutoCAD®	• Drawing Exchange Format (.DXF)	Recommended format. Points in the DXF can be automatically placed on the background (refer to 3.2.3, "Adding Points Using the Auto-place Feature").
Vector	• Windows® Enhanced Metafile Format (.EMF) • Windows Meta Files (.WMF)	These file types typically degrade less in visual display quality than a raster file. EMF files can only be used as backgrounds.
Raster Files	• Bit Map (.BMP) • Graphic Interchange Format (.GIF) • Portable Network Graphics (.PNG) • Joint Photographic Experts (.JPG)	These files types degrade more in visual display quality than a vector file, especially when using the workstation's zoom functionality.

1.3.2 DXF File Import Limitations/Recommendations

The following limitations and recommendations apply to AutoCAD DXF format drawings imported for workstation backgrounds.

Table 1.3 DXF File Limitations/Recommendations

Item	Limitation
AutoCAD Version	• Version 2013 or earlier.
Font Type	• Use Arial only. Any other fonts used will be converted to Arial.
Workstation PC	• 16 GB Ram, 6 GB free disk space recommended.
Max. DXF File Size	• 25 MB recommended.
3-D Drawings	• Not supported.
Supported CAD Elements	• ARC • ATTRIBUTE • CIRCLE • ELLIPSE • INSERT • LINE • LWPOLYLINE • MTEXT (rotated/not rotated) • POINT • POLYLINE without bulge • TEXT (rotated/not rotated) • VERTEX
Non-Supported CAD Elements	• DIMENSION • FACE3D • HATCH • HELIX • LEADER • LIGHT • MESH • MLEADER • MLEADER_STYLE" • MLINE • OLE2FRAME • OLEFRAME • RAY • REGION • SEQ_END • SHAPE • SOLID • SOLID3D • SPLINE • SUN • SURFACE • TABLE • TOLERANCE • TRACE • UNDERLAY • VIEW_PORT • WIPE_OUT
Text	• "TEXT or MTEXT written should contain only one point/device address per line without any special characters (i.e. "\n, \t, \r, *, $, %, & "). • Edit text with supported AutoCAD entity types before importing.
Layers	• Turn off any unneeded layers before importing for better visibility in the floorplan.

1.4 Data Locations on the Directory

Data used by the configuration tool is stored on the PC in the locations described in the following table.

Table 1.4 Data Directory Locations

Editing Type	Description	Data Location
Live System Editing	Live system editing refers to editing in the configuration tool on the same PC that is running the workstation software. Can also be used for FirstVision, but must be copied manually onto the FirstVision unit.	**C:\Facilities Monitoring\Data\System**
Off-line Editing	Off-line system editing refers to editing the data on a PC that is not running the workstation software. Can be used for the workstation and must be used for the FirstVision.	**C:\Facilities Monitoring\Data\System-**[system description as defined by user]

1.5 FirstVision System Design File Size Limitations

For FirstVision, the combined size for the system design files should not exceed the following:

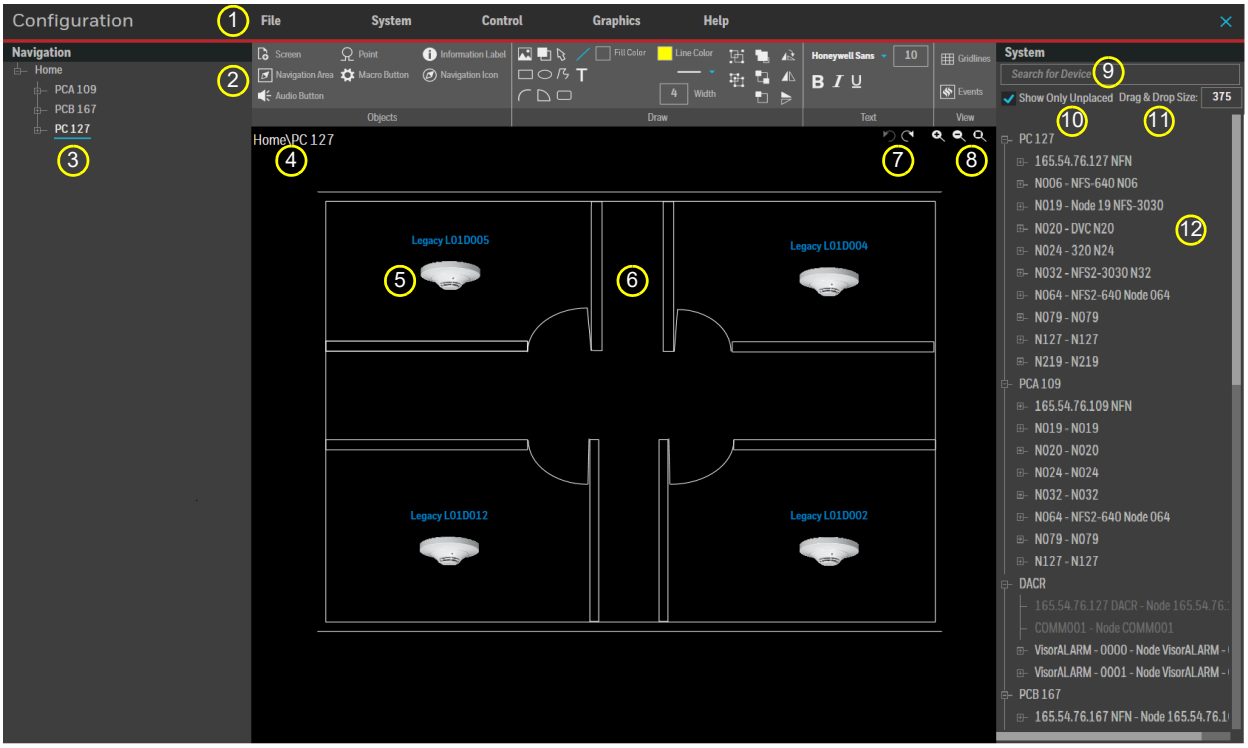
- 2 GB for the 19" LCD display
- 4 GB for the 22" LCD display

Section 2 Layout and Menus

2.1 Configuration Tool Layout

The configuration tool opens by default to the configuration tool Floorplan Editor screen as shown in Figure 2.1. This screen allows the user to create and place informational objects on a floorplan. Other configuration screens can be accessed by clicking the menus at the top of the screen. Menu options and tools are described in Table 2.1.

NOTE: The configuration tool layout for workstations with the optional smoke control feature is different than that shown below. For information about the smoke control layout, refer to the LS10050-012NF-E *OW-SCS Configuration and Operation Manual*.



Item	Feature	Description
1	Main Menu Bar	Click the labels to access configuration tool sub-menus. Refer to Table 2.1.
2	Floorplan Tool Bar	Click items to access floorplan screen tools. Refer to Table 2.1.
3	Navigation Tree	Click labels to navigate to screens for system buildings, floors, etc.
4	Screen Title	Displays the label/address of the currently displayed screen.
5	Device Icon	Represents a fire system device. Click the icon for additional information.
6	Floorplan Screen	Graphic area depicting the features of the selected area in the fire system.
7	Undo/Redo Buttons	Click to undo or redo the last action performed on the floorplan.
8	Zoom Tools	Click to zoom in, zoom out, or zoom to full size.
9	Device Search Tool	Search the system component list for a specific device.
10	Show Only Unplaced	Select to show only unplaced devices in the system tree.
11	Drag & Drop Size	Specify the size of device icons dragged onto floorplan from the system tree. The larger the number, the larger the icon will be on the floorplan.
12	System Tree	List of fire system devices, etc. Drag label to place icon on the floorplan.

Figure 2.1 Configuration Tool Floorplan Editor Screen Features

2.2 Configuration Tool Menus and Toolbars

The following table describes the menus and toolbars associated with the ONYX configuration tool.

NOTE: For additional information concerning the configuration tool for the workstation optional smoke control feature, refer to the *OW-SCS Configuration and Operation Manual* (P/N LS10050-012NF-E).

Table 2.1 Configuration Tool Menus and Floorplan Toolbars

Location	Description
Main Menu Bar	Located along the top of the configuration tool main screen.
	File Menu: **Open** - Visible on stand-alone configuration PCs only. Allows the user to open and configure additional systems. **Merge Database** - Allows the user to import the data from an existing system database into the currently open system database. This creates a single database with the contents of both databases merged. **Save** - Saves the configuration tool settings without closing the configuration tool. **Exit** - Closes the configuration tool.
	System Menu: **Networks** - Allows the user add, delete, modify networks and nodes. Refer to 4.1, "Networks" for additional information. **DVC Inputs** - Allows the user to map sequence inputs from their network DVCs to inputs that can be used by the workstation when configured for emergency audio. These inputs are then used by the Audio Group Manager, in which an audio group will be assigned one of the input numbers that were configured in the DVC Inputs window. **Note:** The input and priority settings must match those configured on the DVC(s). **Signs** - Allows the user to configure the LED Sign Gateways as part of the current system. This allows the user to send a message to the sign from the workstation. Using this feature violates the UL listing. **System Options** - Allows the user to select options as to how the workstation interface will operate. Refer to 4.2, "Setting Up System Options"for additional information. **Monitoring Profiles** - Allows the user to configure the monitoring profiles which can be selected by the users in the workstation software. Refer to 4.6, "Monitoring Profile Configuration" for additional information. **Users** - Allows the user to set workstation user passwords and privileges. **Chemicals** - FirstVision only. Opens the Chemicals screen where information about hazardous chemicals is stored. The user can add or remove chemicals from the list. Chemical information can be associated with a hazardous material icon on the floorplan. Refer to 4.8, "Chemicals Window" for additional information. **Database Editor** - Allows the user to edit the workstation database in a spreadsheet format.
	Control Menu: **Macros** - Opens the Macro Editor Screen where the user can configure macros. Refer to 3.2.7, "Macros" for additional information. **Control Profiles** - Allows the user to configure the control profiles which can be selected by the users in the workstation software. Refer to 4.7, "Control Profile Configuration" for additional information. **Audio Groups** - Allows the user to configure audio groups for use with NOTIFY-IP. **SCS Weekly Test** - Only visible with the workstation optional smoke control feature. Allows the user to configure a weekly test of the smoke control system via specified fire panels.
	Graphics Menu: **Default Icons** - Allows the user to view, search, and customize the icons in the currently selected icon set. **Status Classes** - Allows the user to configure custom colors and sounds for each event status class. **Floorplan Options** - Allows the user to configure the text displayed above the icons, the floorplan foreground and background colors, and the icon set to be used. **Smoke Control Widget -** Only visible with optional workstation smoke control feature. Allows the user to configure the labels and indicator colors for smoke control device widgets.
	Help Menu: About - Displays version and other information pertaining to the configuration tool.

Table 2.1 Configuration Tool Menus and Floorplan Toolbars *(Continued)*

Location	Description
Floorplan Toolbar	Allows the user to configure and place/draw a variety of informational objects on the floorplan screen.
	Objects: **Screen** - Allows the user to add screen backgrounds, titles, and specify parent screens. Refer to 3.2.2, "Adding a Screen" for additional information. **Navigation Area** - Allows the user to create and select the destination for a navigational area. **Navigation Icon**- Allows the user to create and select the destination for a navigation icon. **Audio Button** - Allows the user to configure and place audio buttons. **Point** - Allows the user to create and configure points. For each event status class, a point can be assigned an icon and linked media for text, image, audio, and video; each of which can be auto-activated. **Macro Button** - Allows the user to create and place buttons that activate configured macros. **Information Label** - Allows the user to configure and place information labels that provide important user information. **Smoke Control Icon** - Only visible with optional workstation smoke control feature. Allows the user to configure smoke control device icons and smoke control operations.
	Draw - Provides drawing tools for use on the floorplan screen. Hover to display the meaning of symbols.
	Text- Provides text settings for use on the floorplan screen. Active when text tool "**T**" is clicked.
	View: **Gridlines Button** - When clicked, grid lines are displayed on the floorplan to aid in placement of information. **Note:** Gridlines do not appear on the workstation screen. **Events Button** - When this button is clicked, all device icons on the floorplan display in an alarm state. This includes tinting of each icon, placing a box around it, and displaying event text below each icon. The purpose of this option is to assist users when laying out floorplan icons. For instance, they can use it to ensure that the event text is easily readable and does not overlap lines on the floorplan background.

Section 3 System Configuration

3.1 Overview

The configuration tool provides the user with the capability to organize their facilities monitoring system database into a design that will be displayed on a workstation or FirstVision unit. The procedures suggested in this section are intended to help the user in setting up this system. Some steps can be performed before others, as their order is not always essential to completing the new system design.

NOTE: Review Section 2, “Layout and Menus” before starting the following procedures.

3.2 Creating Database Objects

3.2.1 Saving the Settings

New or edited database object settings are saved in accordance with the following table:

Table 3.1 Saving Settings in the Configuration Tool

Type of Save	Configuration PC Location	Result
File >Save	Live System [1]	Saves and imports the changes into the workstation. The configuration tool remains open.
	Offline System [2]	The changes are exported to a save directory created when initially selecting the database to edit. The user is provided the location where the database has been saved. The user must import the database into the workstation or FirstVision. The configuration tool remains open.
File >Exit	Live System	Exits the configuration tool. A prompt displays with the following options: • **Yes** -Exits the configuration tool and imports the changes into the workstation. • **No** - Exits the configuration tool, discarding any changes made. • **Cancel** - Returns to the configuration tool without saving.
	Offline System	Exits the configuration tool. A prompt displays with the following options: • **Yes** - Saves the changes to a save directory created when initially selecting the database to edit. The user is provided the location where the database has been saved. The user must import the database into the workstation or FirstVision. Exits the configuration tool. • **No** - Exits the configuration tool, discarding any changes made. • **Cancel** - Returns to the configuration tool without saving.
Notes: 1. **Live System** - The configuration tool is running on an active workstation PC and editing the active workstation database. 2. **Offline System** - The configuration tool is editing a database that is not the active workstation database. The database must be manually imported into a workstation or FirstVision in order to function.		

3.2.2 Adding a Screen

Add a screen as follows:

1. In the configuration tool navigation tree:
   - Right-click the label for the screen below which the new screen will be added and select **Add Screen**, or
   - Navigate to the parent screen below which the new screen (child) is to be added and click **Screen** in the floorplan toolbar. The Screen Properties dialog box displays.
2. In the Screen Properties dialog box, use Table 3.2 to configure the screen.
3. Click **OK**. The following occurs depending on the background file type:
   - If a DXF file, the configuration tool searches the file for devices and if it finds them, they are automatically placed in their correct locations on the background. Refer to 3.2.3, "Adding Points Using the Auto-place Feature" for more information. If the DXF does not contain points, only the background is imported and points must be manually positioned.
   - For other file types, only the background is imported. Points must be manually positioned on the floorplan as described in 3.2.4, "Manually Adding Points to a Screen".

The screen title displays in the navigation tree and the background displays in the floorplan area.

Table 3.2 Screen Properties Dialog Box Features

Property	Description
Name	Enter a unique name for the screen.
Background	• **Select Button** - Click and select the floorplan background file for the screen. A preview of the selected background displays in the *Background* field. • **Clear** - Click to remove the currently displayed background file for the screen.
Parent Screen	Read only. Automatically populates with the name of the parent screen under which the current screen will be placed.
Additional Properties	Makes additional information available to the viewer in the FirstVision application only. • **Property** - Click the **Add** button and enter the property name (e.g. 'Building Engineer Name'). • **Value** - On the same line as the property, click the field in the Value column and enter the corresponding value (e.g. 'Joe Smith'). To change an existing property or value, click on the text, modify as desired, and click on a different line or press the Esc key.
Create another	Click to create another screen under the same parent screen without closing the Screen Properties dialog box. Deselect the checkbox before clicking OK on the last screen to be configured so the dialog box closes.
OK	Saves the settings and adds the selected screen.
Cancel	Closes the dialog box without saving settings or adding a screen.

3.2.3 Adding Points Using the Auto-place Feature

The auto-place feature allows the user to automatically place points at their actual locations on the floorplan using an AutoCAD® DXF graphic file. This feature compares the points found in the DXF file with existing points in the system database. The points in the database have been previously created using one of the following methods:

- Using Verifire Tools and importing the database as specified in 4.1, "Networks".
- Manually creating individual points as specified in 3.2.4.3, "Adding an Individual Point".
- Annunciating events from an NFN gateway.

3.2.3.1 Configuring Points in the DXF File

When running the auto-place feature, the configuration tool searches various fields in the DXF file for point addresses. These fields include the following:

- text
- mtext
- attributes

The format for the point addresses must be as described in the following table:

Format (no spaces)	Where:	Examples
L # X*	**L** = Loop **#** = up to 2 digits (1-10 or 01-10) **X** = D (for detector) or M (for module) * = up to 3 digits (1-159 or 001-159)	L05D040 L01M004
N # L*X◈	**N** = Node **#** = up to 3 digits (1-240 or 001 - 240). **L** = Loop * = up to 2 digits (1-10 or 01-10) **X** = D (for detector) or M (for module) ◈ = up to 3 digits (1-159 or 001 - 159)	N002L05D039 N005L01M051

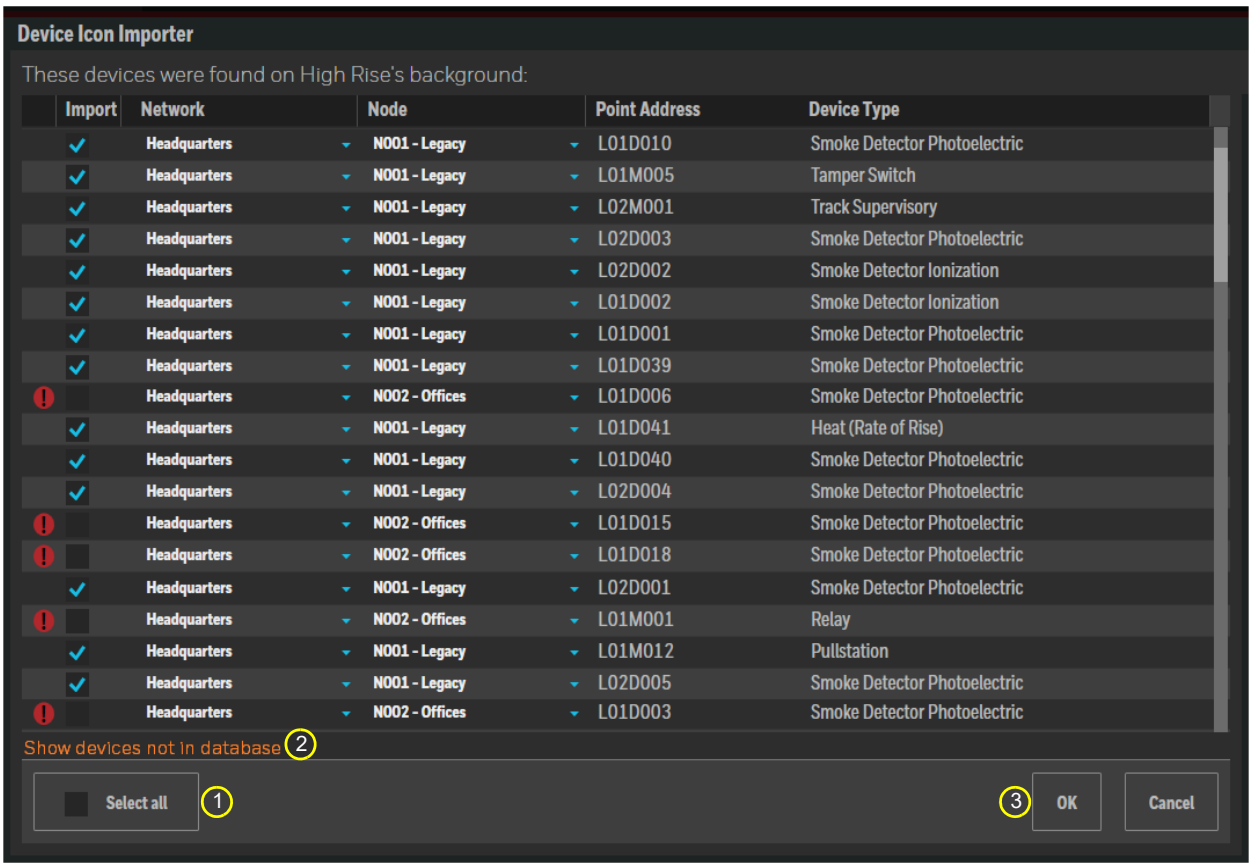
3.2.3.2 Auto-placing the Points

As described in 3.2.2, "Adding a Screen", the configuration tool searches the DXF file for point addresses. If point addresses are found in the DXF file, the configuration tool then searches the system database. The points from the DXF file may:

- Exist in the system database and not be located on another screen
- Exist in the system database and be located on another screen
- Not exist in the system database. These points may be placed at a later time. For now, complete the procedure that adds the current screen. Add the new points to the database as specified in 3.2.3, "Adding Points Using the Auto-place Feature". Once the points have been added to the database, add the points to the screen as specified in 3.2.3.3.

If any valid point addresses are found in the DXF file, the configuration tool displays the Device Icon Importer dialog (Figure 3.1) which provides point information and options for placing the points on the screen.

If duplicate point addresses are found in the file, a message displays listing the duplicated points." The user must correct the DXF file to delete or rename the duplicate points and then re-import the screen as specified in 3.2.2, "Adding a Screen".



Item	Description
☑	Indicates that the point was found and will be auto-placed on the screen. The point is not found on any other floorplan. Deselect to prevent the point from being auto-placed.
ⓘ	Indicates that the point was found, but the point is already placed on another screen. Selecting the checkbox causes the point to be relocated to the current screen when the OK button is clicked.
▾	Click to modify the point location (Network/Node) of the point on that row.
1	**Select all** - Click the button to select all rows (the box will be checked). Click again to deselect.
2	**Show devices not in database** - Click to open the Extracted Device Exporter containing a list of devices found in the DXF file, but not in the database. Click the Export button to export a CSV file of the list that can be opened using a spreadsheet application such as Excel.
3	**OK** - Click the button to import the selected points and auto-place their icons on the screen.

Figure 3.1 Device Icon Importer Screen

3.2.3.3 Auto-placing Points on Existing Screens

Existing screens in DXF format that contain points may also use the auto-place technology feature as follows:

1. Open the Screen Properties dialog box using one of the following methods:
   - Right-click on the label for the screen in the navigation tree and select **Properties**.
   - Right-click on the floorplan background and select **Edit Screen**.
2. Click **OK** in the Screen Properties dialog box. The configuration tool searches the DXF for points and opens the Device Icon Importer. Refer to 3.2.3.2, "Auto-placing the Points" for additional information.

3.2.4 Manually Adding Points to a Screen

3.2.4.1 Adding a Point Using the System Tree

If using a floorplan graphic other than a DXF file or if the DXF file does not contain point information, the points can be manually placed on the floorplan as follows:

1. Find the point(s) to be added to the floorplan in the system tree (see Figure 2.1. Use the device search tool if necessary.
2. Select the point(s) to be placed on the floorplan using one of the following methods:
   - Individually - Click on the device label.
   - Group:
     - Consecutive - Click on the label of the first device to be placed, hold down the **Shift** key, and click on the last consecutive device. All devices between the two are selected.
     - Non-consecutive - Click on the label of the first device to be placed, hold down the **Ctrl** key, and select the other devices in the list. Each clicked device is selected.
3. Drag and drop the device(s) onto the floorplan and reposition as necessary.

3.2.4.2 Copying or Moving Points From Another Screen

1. Using the navigation tree (see Figure 2.1, navigate to the source floorplan containing the points to be copied.
2. Select the devices on the source floorplan using one of the following methods:
   - Individually - Click on the device icon.
   - Group - Click on the icon of the first device to be moved, hold down the **Ctrl** key, and click on the other device icons. Alternatively, use the cursor to drag a box around all the device icons. Graphic handles appear on all selected icons.
3. Cut (Ctrl+X) or copy (Ctrl+C) the points.
4. Navigate to the destination floorplan and paste (Ctrl+V).
5. Reposition as necessary.

3.2.4.3 Adding an Individual Point

Follow the steps below to manually add a point icon.

1. In the configuration tool navigation tree, right-click the label for the screen where the new point will be added and click **Point** in the toolbar. Use Table 3.3 to configure the point.
2. Click **OK**. The device icon displays in the floorplan area.
3. Drag the icon to the desired position on the floorplan.

Table 3.3 Point Properties Settings

Section	Property	Description
Point Properties	**Icon**	Click on the displayed icon and double-click the desired icon.
	Network	Select the network on which the point is located from the drop-down list.
	Node	Select the node on which the point is located from the drop-down list.
	Point Address	Enter the exact point ID from the panel.
	Point Description	Enter a unique description for the point.
	Point Alias	Enter an alias for the point if desired.
	Autonavigate	• **Yes** - Default. If an off-normal event occurs, the screen autonavigates to the point location. • **No** - The screen will not autonavigate to the point location.
	Category	Select the point type category from the drop-down list.
	Type	Select the device type from the drop-down list.
Event Properties		The event properties settings allow a different icon to be displayed for each event status class of the point (i.e. normal, fire, security, supervisory, trouble, disable, or other). When a condition is reported, the icon selected for the corresponding status class is displayed (different icon, defined event status class color). In addition, each point's event status class can also be linked to a media file (text, image, audio, or video) that plays when the workstation auto-navigates to that point during an event.
	Event Status Class List	Select the event status class from the list that is to be configured. The Icon and Linked Media fields show the current configuration for the status class selected.
	Icon Field	Allows the user to select a different icon to be used for a point during an event that is different from the icon indicating a normal condition. Click the icon to select the icon to be displayed.
	Linked Media	Provides the user an option to associate media files with the point for a specific status class. Click in the field adjacent to the desired media type (i.e. text, image, audio, video) and double-click the desired media file to associate with the point (refer to 3.2.10, "Supported Linked Media Formats"). The filename of the selected file displays in the field. Click the 'X' next to the field to delete the association.
	AutoActivate	Only displays when linked media is configured for the point. Select from the drop-down list, the media files to be autoactivated (or none) when there is an off-normal event at the point.
	Apply to All Button	Applies the selected status icon and linked media to all event statuses for the current device.

3.2.5 Adding a Navigation Icon

NOTE: A Navigation Icon can also be configured from the Navigation Area window (Appearance).

1. In the configuration tool navigation tree, click the label for the floor on which the navigation icon is to be added. The floorplan for the selected floor displays.
2. Click **Navigation Icon** in the toolbar. The Navigation Icon window displays. Use Table 3.4 to configure the navigation icon.

Table 3.4 Navigation Icon Properties Settings

Property	Description
Appearance	Allows the user to switch between navigation icon and navigation area (regions).
Icon Field	Click on the displayed icon and double-click the desired icon. The selected icon displays in the icon field.
Caption	Enter a unique caption for the icon.
Screen	In the navigation tree, select the screen to which the navigation icon will navigate.

3. Click **OK**. The navigation icon displays in the floorplan area.
4. Drag the icon to the desired position on the floorplan.

3.2.6 Adding a Navigation Area

NOTE: A Navigation Area can also be configured from the Navigation Icon window (Appearance).

1. In the configuration tool navigation tree, click the label for the floor on which the navigation area is to be added. The floorplan for the selected floor displays.
2. Click **Navigation Area** in the toolbar. The Navigation Area window displays.
3. Using the navigation tree, navigate to and select the location to which the navigation area will go and click **OK**.
4. Drag the navigation area to the desired position on the floorplan.

3.2.7 Macros

3.2.7.1 Macro Commands Overview

Macros allow workstation users with point control-level privileges to execute a series of configured commands for system devices by clicking an on-screen button or link. The Administrator creates a macro command by naming it and assigning it one or more macro command options. The available actions for the macro command option are contingent upon the network, node, and point that is selected.

Macros are executed through the workstation in one of the following ways:

- Clicking on a macro icon on the floorplan.
- Clicking on the label of the desired macro in the workstation Macros window (**Menu > View > Macros**).

3.2.7.2 Creating a Macro

1. Go to **Control > Macros**. The Macros window displays.
2. Click the **Add** button and configure the macro using Table 3.5.
3. When done, click **OK**.

Table 3.5 Macros Window Configuration Settings

Property	Description
Name	Enter a unique name for the macro.
Require Confirmation	• **Yes** - Macro requires a conformation before it is run. • **No** - Macro runs immediately.
Macro Group	Macros can be grouped together under one name (building, floor etc.). In the workstation Macros window, the group label (Floor 1, for example) can be expanded to show all the macros associated with the devices on that floor. • Click **+** to name and create a new group. • Click the down arrow to assign the current macro to an existing group. Leaving the field blank indicates the macro is not part of a specific group and will be listed separately in the workstation Macros window.
Multi-Function	Allows the current macro to be configured to toggle between two commands such as: • Enable Point/Disable Point • Activate/Deactivate • Enable Point If Not Active/Disable Point This setting will be applied to all macro command options.
Macro Options	**Add Macro Option Button** - Opens the Macro Option Properties window where the user selects the network, node, point, and action for the macro. The available options depend on the point type. Click OK to save and close. To edit macro options, click the down arrow in the field to be changed and select the option from the drop-down list.

3.2.7.3 Adding a Macro Button

Add and configure a macro button as follows:

1. In the configuration tool navigation tree, click the label for the floor on which the macro button is to be added. The floorplan for the selected floor displays.
2. Click **Macro Button** in the toolbar. The Macro Button Properties window displays. Use Table 3.6 to configure the macro button.
3. Click **OK**. The macro button displays in the floorplan area.
4. Drag the button to the desired position on the floorplan.

Table 3.6 Macro Button Properties Settings

Property	Description
Icon Field	Click on the displayed icon and double-click the desired icon. The selected icon displays in the icon field
Caption	Enter a unique caption for the macro button.
Macro to Execute	Select the macro to be associated with the button from the drop-down list.

3.2.8 Adding an Information Label

Add and configure an information label as follows:

1. In the configuration tool navigation tree, double-click the label for the floor on which the information label is to be added. The floorplan for the selected floor displays.
2. Click **Information Label** in the toolbar. The Information Label Properties window displays. Use Table 3.7 to configure the label.

Table 3.7 Information Label Properties Settings

Property	Description
Icon Field	Click on the displayed icon and double-click the desired icon.
Caption	Enter a unique caption for the information label.
Linked Media List	Click in the field adjacent to the desired media type (i.e. text, image, audio, video) and navigate to and double-click the desired media file (refer to 3.2.10, "Supported Linked Media Formats"). The filename of the selected file displays in the field.
Linked Chemical	FirstVision only. Select the chemical (if any) to be linked to the label from the drop-down list. The chemical name displays in the Linked Chemical field. **Note:** The source of the chemical list is the Chemicals window (**System > Chemicals**).
Linked Screen	FirstVision only. Clicking the Select Screen button allows the user to link to the properties of another screen. These properties are added to the current label's additional properties.
Screen Placement	Screen placement allows the user to place the same information label (e.g. elevators and stairs) on multiple screens. Check the checkbox for the screen(s) on which the label will display.
Additional Properties	FirstVision only. Makes additional information available to the viewer. Click **Add** and enter the following information: • **Property** - Enter the property name (e.g. 'Daytime Occupants'). • **Value** - On the same line as the property, Enter the corresponding value (e.g. '150'.).

3. Click **OK**. The label displays in the floorplan area(s).
4. Drag the label(s) to the desired position on the floorplan(s).

3.2.9 Adding an Audio Button

Audio buttons operate on workstations configured with NOTIFY-IP. Add and configure an audio button as follows:

1. In the configuration tool navigation tree, double-click the label for the floor on which the information label is to be added. The floorplan for the selected floor displays.
2. Click **Audio Button** in the toolbar. The Information Label Properties window displays. Use Table 3.7 to configure the label.

Table 3.8 Audio Button Properties Settings

Property	Description
Icon Field	Click on the displayed icon and double-click the desired icon.
Caption	Enter a unique caption for the audio button.
Audio Group	Select the audio group name from the drop-down list.

3. Click **OK**. The button displays on the floorplan.
4. Drag the button to the desired position on the floorplan.

Refer to the applicable workstation manual for additional information concerning NOTIFY-IP.

3.2.10 Supported Linked Media Formats

When any of the following file types are linked to a point, the workstation can display or activate them from a point's right-click options menu. Points with linked files are identified with a paper clip symbol ( ) next to the point's icon on the workstation floorplan.

- **Text** - .txt or .rtf
- **Image** - .bmp, .jpg, .gif, .png, and .wmf
- **Audio** - .wav
- **Video** - .avi

Section 4 Configuration Tool Functions

4.1 Networks

4.1.1 Importing Network Configuration Data

Copy the network (and screen, etc.) configuration from a peer workstation that has already been configured as follows:

1. In the workstation application, go to **Menu > File > Import System Data**. The *Select System To Import From* dialog box displays.
2. Select the IP address of the peer workstation from the *Available Systems* field or enter an IP address in the *IP Address to Import From* field.
3. Click **OK**.

4.1.2 Creating Network Connections

4.1.2.1 Adding a Network

Network names and gateway connections are created using the configuration tool as follows:

1. In the configuration tool, go to **System > Networks**. The Networks window opens.
2. Click the **Add** button.
3. Type a unique network name into the *Alias* field (default is "New").
4. Select the network type from the **Type** drop-down list.
5. Click the first *IP Address* field and enter the gateway IP address. Gateway and node labels are displayed in the navigation tree. Once the connection is made, clicking the arrow (**›**) next to the IP address opens the configuration tool for the gateway. If it does not open, it could be for one of the following reasons:
   - The PC cannot connect to the gateway IP address.
   - The gateway is not running.
   - The gateway is a PC gateway running on another workstation PC.
6. If there is to be another gateway monitoring the system, enter its IP address in the second *IP Address* field. Gateway and node labels are displayed in the navigation tree.
7. Add nodes as described in the following paragraph or click **OK** to exit the screen.

4.1.2.2 Adding Nodes to a Network

Add nodes to a network as follows:

1. In the Networks window (**System > Networks)**, click the network label in the navigation tree under which the node is to be added.
2. Add nodes using either of the following methods:
   - Click the **Add Node** button. This option adds a single node to the network. Go to Step 3.
   - Click the **Import Panel Database**. This option adds all the nodes and points from a Verifier database. Any nodes and points that are in the database will be autocreated on the selected network. Go to Step 6.
3. Enter a unique node name into the *Alias* field (default is "New").
4. Enter the IP address of the node in the *Address* field.
5. Select the node type from the *Node Type* drop-down list.
6. Click **OK**. The node or nodes are added to the network.

4.1.2.3 Deleting Networks and Nodes

Delete a network or node as follows:

1. In the Networks window (**System > Networks)** click a on the network or node label in the navigation tree.
2. Click **Delete**. Click **Yes** in response to the confirmation message.

4.2 Setting Up System Options

In the configuration tool, go to **System > Options**. Settings are described in the following table.

Table 4.1 System Options Configuration

Setting	Possible Settings	Comments
Operating Mode		The workstation must be set to the same operating mode as the NFN Gateway(s).
	Canada - Proprietary Receiving Unit	Canada - Proprietary Receiving Unit (PRU) mode meets ULC S527 requirements and otherwise runs exactly as the PRU Mode. NFN networks configured for Mass Notification operations are not supported in Canada - Proprietary Receiving Unit mode.
	Canada - Protected Premises Control Unit	Canada - Protected Premises Control Unit (PPCU) mode meets ULC S527 requirements and otherwise runs exactly as the PPCU mode. This mode is not available when more than one NFN is connected to the workstation.
	Canada - Protected Premises Control Unit + DCC	Canada - PPCU + DCC (Display and Command Center) mode meets ULC S527 requirements and otherwise runs exactly as the PPCU mode. This mode is not available when more than one NFN is connected to the workstation.
	China - CCCF	China - CCCF mode meets Certification Center for Fire Products (CCCF) standards.
	Proprietary Receiving Unit	PRU mode supports multiple gateways and workstations. NFN networks configured for mass notification operations are not supported in PRU mode.
	Protected Premises Control Unit	PPCU mode is not available when more than one NFN is connected to the workstation. In this mode, the workstation is a peer of a panel it monitors (i.e. actions taken at the panel register on the workstation). PPCU mode requires exactly one workstation and the NFN Gateway running on the same PC as the workstation.
Mass Notification Priority	• None • Lower than Fire • Higher than Fire	Active only in PPCU mode.Select from the drop-down list.
Logged-Out Monitoring Profile	• All Nodes, All Events (Default) • Custom Profiles	Select the desired monitoring profile from the drop-down list. If no one is logged in to the workstation, the selected monitoring profile is activated.
Extract Description from Panel	• Yes	Default. Use point descriptions as received from the FACP.
	• No	Use point descriptions as defined by the configuration tool and discard point descriptions received from the FACP.
Time Server Settings	IP Address	This field is used to enter the IP address of the server that is used to synchronize the ONYXWorks system time. If the IP address for the time server is the same IP address as this workstation PC, then this workstation will function as the time server. Otherwise, the workstation PC will use the time server at the specified IP address.
Audio Multicast IP	IP Address	This setting is for use with the NOTIFY-IP option provided the IP network supports multicasting.
System Description	Enter a unique system description.	This description is an alias by which the system can be easily identified. This aids the user during off-line configuration where multiple systems may be configured.
System Password	Enter a unique password.	20 characters maximum, case sensitive. In order for the workstation to connect to a gateway, the system password must match the system password configured on the gateway. The system password must be manually entered individually on each workstation PC by entering this setting in the configuration tool residing on that PC. On workstation PCs, this setting is only available when editing the live system.

Table 4.1 System Options Configuration *(Continued)*

Setting	Possible Settings	Comments
Require Confirmation	• Field Acknowledge • Silence • Reset • Manual Evacuation • Enable/Disable • Activate/Deactivate	Selecting 'Yes' causes a confirmation message to display before the action is performed. (Default is "No").

4.3 Graphics Menu Functions

4.3.1 Default Icons Window

The Default Icons window (see Figure 4.1) displays all icons in the current default icon set. It is accessed via **Graphics > Default Icons**. This window allows the user to search for, and configure device icons for use on the system.



Item	Feature	Description
1	Search Field	Enter device name and click Enter to find icon for a specific device type.
2	Device Type Labels	Labels are arranged alphabetically. Click to open a window where other icon graphics can be selected.
3	Restore Defaults Button	Click to restore the default icon set.
4	Device Category List	Click to display only certain categories of devices in the grid (Fire Detectors, Network Components, etc.).
5	Icon Graphics	Displays the icon used for the device type in the row. Click to open a window where other icon graphics can be selected.
6	OK	Click to save settings and close the window.

Figure 4.1 Default Icons Window Features

4.3.1.1 Selecting an Icon Set

This setting is primarily for upgraded systems. To select an icon set other than the default, proceed as follows:

1. Go to **Graphics > Floorplan Options** (see Figure 4.3).
2. In the *Icon Set* field, select the desired icon set from the drop-down list.
3. Click **OK**.

4.3.1.2 Custom Icon Recommendations

When creating custom icons, the following recommendations should be followed for optimal appearance:

- 32 bit PNG File – Works best for the color tinting used in alarm reporting. Refer to Table 4.2.
- Icon size is recommended to be 256 x 256 pixels, square – Image files larger than the recommended size require more memory and may degrade system operation.
- Gray scale – Light colored, gray scale images work best, since colored images interfere with the color tinting used in alarm reporting. Refer to Table 4.3.

Table 4.2 Affect of Non-PNG Icon File on Background

PNG File	Non-PNG File
 Visible Background	 Background Blocked by Square

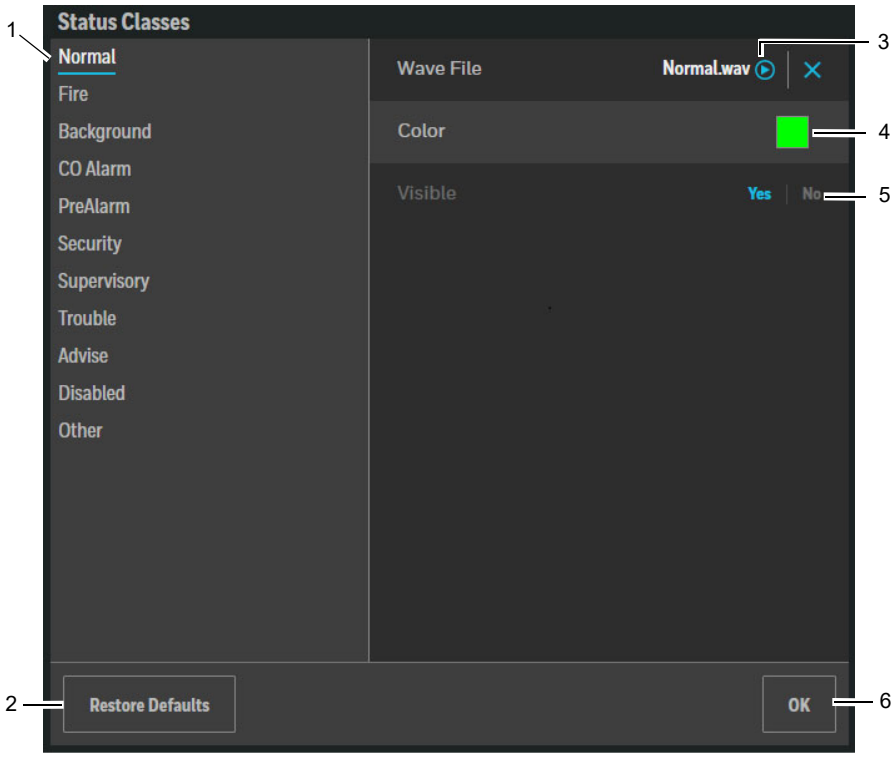
Table 4.3 Affects of Icon Color on Alarm Reporting

Icon Type	If Normal Icon Has This Color...	Alarm and Trouble Icons Appear As These Colors	
Recommended Icon	Normal Status 	Alarm 	Trouble 
Normal Icon Too Dark	Normal Status 	Alarm 	Trouble 
Normal Icon with Color	Normal Status 	Alarm 	Trouble 
Normal Icon Same Color as Alarm Icon	Normal Status 	Alarm 	Trouble 

4.3.2 Status Classes Window

The configuration tool Status Classes window is accessed via **Graphics > Status Classes**. This window allows the user to configure custom colors and sounds for each status class. Point icons, alarm summary icons, and alarm indicators on the workstation screen display the colors on all workstations in the system when an event occurs.

NOTE: Status class colors different from the default values may not be compliant with UL/ULC requirements.

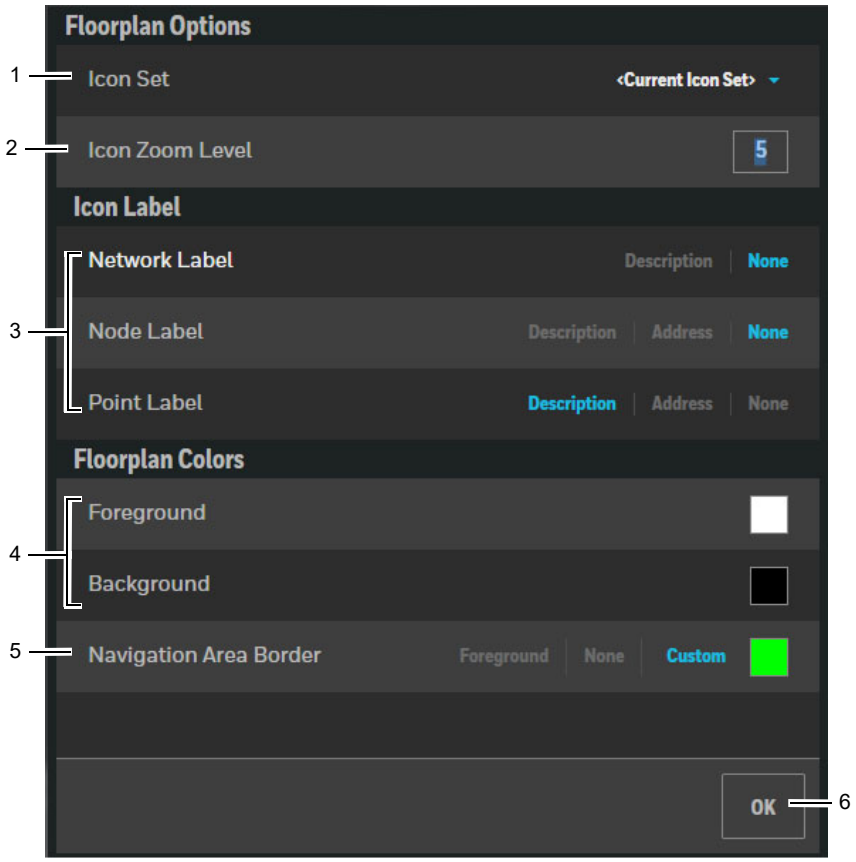


Item	Feature	Description
1	Event Status Class List	Click the label to configure the color and sound for the selected event status class.
2	Restore Defaults Button	Click to restore the default colors and sounds.
3	Wave File Field	Workstation only. Click to select a WAV file for the selected event status class. Clicking the 'X' clears the selected WAV file so no sound will play for the selected event status class.
4	Color Field	Click to select the color for the selected event status class. The event icon displays in the selected color.
5	Visible	Workstation only. **Note:** Normal, Advise, and Other event status classes cannot be hidden. **Yes** - Events in the selected event status class display with their label (Fire, Trouble, etc.) in the workstation events list and its icon appears in the Event Status Class column on the workstation screen. **No** - Events in the selected event class are received, but will be displayed in the workstation events list as the 'Other' event status class. The status class icon does not appear in the Event Status Class column on the workstation screen.
6	OK	Click to save settings and close the window.

Figure 4.2 Status Classes Window Features

4.3.3 Floorplan Options Window

The Floorplan Options window allows the user to select a particular icon set to use, configure how device icons are displayed on the floorplan, and set floorplan-specific colors. Window features are described in Figure 4.3.



Item	Feature	Description
1	Icon Set Field	Select the icon set to be used from the drop-down list.
2	Icon Zoom Level	Workstation only. When an event occurs on a device and the "Automatically Navigate On Event" option is set in the workstation, the workstation will show the icon for that event on the floorplan. This setting allows the user to configure how much the icon will be zoomed to when the auto-navigation occurs. 100 = icon will fill 100% of the floorplan area. 1 = icon will not be zoomed to at all, so the full floorplan will be shown. (Default is 5)
3	Icon Labels	Workstation only. Allows the user to configure display of network labels and node/point icon labels on the floorplan. • **Description** - Displays the description (alias). • **Address** - Displays the system-assigned node /point address. • **None** - No label is displayed.
4	Floorplan Colors	To change the default foreground and background colors, click in the color field and select the new color.
5	Navigation Area Border	• **Foreground** -The navigation area border will be the same as the foreground color. • **None** -The navigation area border will be transparent. **Note:** When set to this option, the configuration tool still shows the navigation area border with the foreground color for configuration purposes. It appears transparent in the workstation and FirstVision. • **Custom** - The rectangular border of the navigation area is set to the color selected.
6	OK	Click to save settings and close the window.

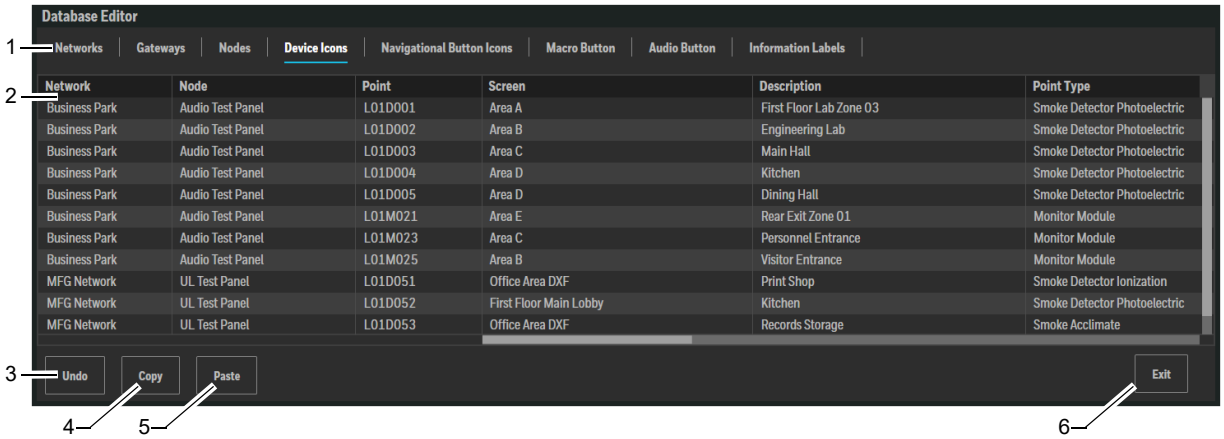
Figure 4.3 Floorplan Options Window Features

4.4 Using Database Editor

Database Editor is an editable, spreadsheet database format representation of the system that is used to view and modify system database information. It is accessed via **System > Database Editor**. Database Editor features are described in Figure 4.4.

By clicking a particular cell in the spreadsheet, the user can select options from drop-down lists or open windows allowing the selection and modification of such screen object components as icon graphics and links to text, audio, picture, and video files.

To view all available columns on a tab, use the scroll bar at the bottom of the window.



Item	Feature	Description
1	Component Category Tabs	Clicking the tab displays database information for the component category.
2	Database Grid	Displays a detailed list of data for the selected for system components in the selected category. Right-click in the columns to view right-click options (refer to Table 4.4). Double-click certain cells to open related configuration windows or view additional options.
3	Undo Button	When active, reverses the last action made in the grid.
4	Copy Button	Copies the text in the selected cell to the clipboard. Alternatively, right-click and select **Copy**.
5	Paste Button	Pastes the copied text in the selected cell within Database Editor. Alternatively, right-click and select **Paste**.
6	Exit Button	Closes the Database Editor window.

Figure 4.4 Database Editor Window Features

Table 4.4 Column Right-Click Menu Options

Type	Option	Description
Column	Sort ASCending	Sorts column data alpha-numerically in ascending order.
	Sort DESCending	Sorts column data alpha-numerically in descending order.
	Hide	Hides the data for the selected column.
	Clear Filters	Clears filters such that all data displays.
	Show All	Displays all columns.
Cell	Copy	Copies the information in the cell.
	Paste	Pastes the copied information.
	Filter By Selection	Filters the spreadsheet data by the information in the cell.
	Filter Excluding Selection	Filters the spreadsheet data excluding the information in the cell.
	Clear Filters	Clears all filters such that all data displays in the spreadsheet.

4.5 User Configuration

4.5.1 User Definitions

The Administrator manages users and their passwords by creating a profile for a user which includes a name, a password, and a security level. A security level selected in the Users window determines what operations are available to a user. For example, some users may have permission to respond to point events on the workstation (Point Control).

4.5.2 Assigning User Permissions in Canada

In Canada, user accounts/permissions must be granted in accordance with the following guidelines:

1. **Read Only**: The default setting with minimum permissions granted.
2. **Client Control**: Granted to persons having a general responsibility for safety supervision, who might be expected to investigate and initially respond to a fire alarm or trouble indication;
3. **Point Control**: Granted to persons who have a specific responsibility for safety and who are trained to operate the fire signal receiving centre and systems;
4. **Administrator**: Granted to persons who are trained and authorized by the manufacturer to:
    a. Reconfigure the site specific data held within the fire signal receiving centre and systems or controlled by it; and
    b. Maintain the fire signal receiving centre and systems in accordance with the manufacturer's published instructions and data.

4.5.3 User Permissions

The tables below describe the permissions granted for each permission level selected in the Users window.

Table 4.5 Basic PC Functionality

Basic PC Functionality	Windows User Account Privileges	
	Limited User Account	Administrator Privileges Account
Run Workstation	YES	YES
Reset Operating System	NO	YES
Change PC Settings	NO	YES
Change/Install Software Programs	NO	YES
Change/Create Local PC User Accounts	NO	YES
Set Time and Date	NO	YES
Note: In Canada, the PC must be run with a Limited User Account.		

Table 4.6 Canada User Permissions and Settings

User Permissions	Accounts - Permissions Level			
	Read Only	Client Control	Point Control	Administrator
Print Events and Floorplans	NO	YES	YES	YES
View History and Linked Media	YES	YES	YES	YES
Backup History Data	NO	YES	YES	YES
Acknowledge Events Locally	NO	YES	YES	YES
Acknowledge Field Events	NO	NO	YES	YES
Silence/Reset	NO	NO	YES	YES
Enable/Disable Points	NO	NO	YES	YES
Activate/Deactivate Points	NO	NO	YES	YES
Manual Evacuation	NO	NO	YES	YES
Change/Configure Site Specific Data	NO	NO	NO	YES
Change/Configure User Accounts	NO	NO	NO	YES
Change/Configure Software Options	NO	NO	NO	YES

4.5.4 Point Controls

The following choices are only displayed and selectable when a workstation user has been given point control privileges. All are preselected if a user has been designated an administrator on the Users window.

- Field Acknowledge
- Silence
- Reset
- Manual Evacuation
- Enable/Disable
- Activate/Deactivate

4.5.5 User Security Options

The Users window's security level selection determines which operations are available to a workstation user. The security options are defined in the terms of the action that the user is allowed to perform on menu selections and events. The following table describes the available options.

Table 4.7 Security Option Descriptions - Available Workstation Menu Options

Menu Item	Option	Proprietary Receiving Unit				Protected Premises Control Unit			
		Read Only	Client Control	Point Control	Admin	Read Only	Client Control	Point Control	Admin
File	**Login**	YES	YES	YES	YES	YES	YES	YES	YES
	Add History Entry	YES	YES	YES	YES	YES	YES	YES	YES
	Print Events	NO	YES	YES	YES	NO	YES	YES	YES
	Launch Applications	NO	YES	YES	YES	NO	YES	YES	YES
	Back Up System Data	NO	NO	NO	YES	NO	NO	NO	YES
	Restore System Data	NO	NO	NO	YES	NO	NO	NO	YES
	Compact and Repair System Data	NO	NO	NO	YES	NO	NO	NO	YES
	Import System Data	NO	NO	NO	YES	NO	NO	NO	YES
	Export System Data To All Workstations	NO	NO	NO	YES	NO	NO	NO	YES
	Exit	NO	NO	NO	YES	NO	NO	NO	YES
View	**History**	YES	YES	YES	YES	YES	YES	YES	YES
	System Explorer	NO	YES	YES	YES	NO	YES	YES	YES
	Armed/Disarmed Points	YES	YES	YES	YES	N/A	N/A	N/A	N/A
	Walk Test Points	NO	YES	YES	YES	NO	YES	YES	YES
	Test Monitoring	NO	NO	NO	YES	NO	NO	NO	YES
	Security Log	NO	NO	NO	YES	NO	NO	NO	YES
	Overview	NO	NO	NO	YES	NO	NO	NO	YES
	Navigation Tree	NO	NO	NO	YES	NO	NO	NO	YES
	New Events	NO	NO	NO	YES	NO	NO	NO	YES
	Acknowledged Events	NO	NO	NO	YES	NO	NO	NO	YES
	Floorplan	NO	NO	NO	YES	NO	NO	NO	YES
	Emergency Audio(1)	NO	NO	NO	YES	NO	NO	NO	YES
	General Audio(1)	NO	NO	NO	YES	NO	NO	NO	YES
	Macros	NO	NO	NO	YES	NO	NO	NO	YES
	Smoke Control(1)	NO	NO	YES	YES	NO	NO	YES	YES
	Smoke Control Operations(1)	NO	NO	YES	YES	NO	NO	YES	YES
	Smoke Control Device(1)	NO	NO	YES	YES	NO	NO	YES	YES
	Restore Default Layout	NO	NO	NO	YES	NO	NO	NO	YES

Table 4.7 Security Option Descriptions - Available Workstation Menu Options *(Continued)*

Menu Item	Option	Proprietary Receiving Unit				Protected Premises Control Unit			
		Read Only	Client Control	Point Control	Admin	Read Only	Client Control	Point Control	Admin
Action	**Signs**	NO	YES	YES	YES	NO	YES	YES	YES
	Open Verifire Tools(2)	NO	NO	NO	YES	NO	NO	NO	YES
Configure	**Launch Configuration Tool**	NO	NO	NO	YES	NO	NO	NO	YES
	Control Profiles	NO	NO	(3)	YES	N/A	N/A	N/A	N/A
	Monitoring Profiles	(3)	(3)	(3)	YES	(3)	N/A	(3)	YES
	NetLogic(4)	NO	NO	NO	YES	N/A	N/A	N/A	N/A
	Options	NO	NO	NO	YES	NO	NO	NO	YES
	Test Monitoring Configuration	NO	NO	NO	YES	NO	NO	NO	YES
Help	**About**	YES	YES	YES	YES	YES	YES	YES	YES
	Secure Windows	NO	NO	NO	YES	NO	NO	NO	YES
	Generate Local Machine Report	YES	YES	YES	YES	YES	YES	YES	YES
	Advanced Diagnostics	YES	YES	YES	YES	YES	YES	YES	YES

Notes:
(1) Optional audio feature. A software license is required for this menu item to display.
(2) Displays only if installed.
(3) Permission is determined by an option in the Users window (**System > Users**).
(4) Displays only when enabled in the workstation Options window (**Menu >Configure > Options**) General tab.

Table 4.8 Security Option Descriptions - Available Workstation Menu Options

Menu Item	Option	Protected Premises Control Unit			
		Read Only	Client Control	Point Control	Admin
File	**Login**	YES	YES	YES	YES
	Add History Entry	YES	YES	YES	YES
	Print Events	NO	YES	YES	YES
	Launch Applications	YES	YES	YES	YES
	Back Up System Data	NO	NO	NO	YES
	Restore System Data	NO	NO	NO	YES
	Compact and Repair System Data	NO	NO	NO	YES
	Import System Data	NO	NO	NO	YES
	Export System Data To All Workstations	NO	NO	NO	YES
	Exit	NO	NO	NO	YES
View	**History**	YES	YES	YES	YES
	System Explorer	NO	YES	YES	YES
	Armed/Disarmed Points	YES	YES	YES	YES
	Walk Test Points	NO	YES	YES	YES
	Security Log	NO	NO	NO	YES
	Overview	NO	NO	NO	YES
	Navigation Tree	NO	NO	NO	YES
	New Events	NO	NO	NO	YES
	Acknowledged Events	NO	NO	NO	YES
	Floorplan	NO	NO	NO	YES
	Macros	NO	NO	NO	YES

Table 4.8 Security Option Descriptions - Available Workstation Menu Options *(Continued)*

Menu Item	Option	Protected Premises Control Unit			
		Read Only	Client Control	Point Control	Admin
	Restore Default Layout	NO	NO	NO	YES
Configure	**Launch Configuration Tool**	NO	NO	NO	YES
	Monitoring Profiles	(1)	(1)	(1)	YES
	Options	NO	NO	NO	YES
Help	**About**	YES	YES	YES	YES
	Secure Windows	NO	NO	NO	YES
	Generate Local Machine Report	YES	YES	YES	YES
	Advanced Diagnostics	YES	YES	YES	YES

Note:
(1) Permission is determined by an option in the Users window (**System > Users**).

4.5.6 User Additions and Modifications

4.5.6.1 Adding a User

The following procedure describes the method used by the Administrator to add an individual's name to the user name listing and set their password and security option.

1. Go to **System > Users**. The Users window displays.
2. Click the **Add** button. The word 'New' displays in the *First Name* field and in the users list.
3. Enter the user's first, middle, and last name in the fields provided.
4. Enter a password into the *New Password* field.
   - Passwords are case-sensitive.
   - Alpha and numeric characters are supported.
   - 8 characters minimum; 15 characters maximum.
5. Re-enter the password in the *Confirm Password* field.
6. Select the appropriate security level for the user in the *Security Levels* field. Use the definitions in 4.5.3, "User Permissions" to determine which level to assign.
7. Select **Yes** or **No** to assign other permissions as necessary. Available permission fields depend on the security level assigned.
8. Click **OK**.

4.5.6.2 Modifying a User Profile

The Administrator can modify a user profile as follows:

1. Open the Users window and select the user name in the *Users* list.
2. Make the necessary changes.
3. Click **OK**.

4.5.6.3 Changing a User Password

The Administrator can change any user's workstation password as follows:

1. Launch the configuration tool as specified in 1.2, "Launching and Exiting the Configuration Tool".
2. Go to **System > Users**.
3. Click the *New Password* field and enter the new password. Note the new password for future reference.
   - Passwords are case-sensitive.
   - Alpha and numeric characters are supported.
   - 8 character minimum;15 characters maximum.
4. Click the *Confirm Password* field and re-enter the new password.
5. Click **OK**.

4.6 Monitoring Profile Configuration

NOTE: Monitoring Profiles must be configured before use in local event printer configuration, or email configuration and before using a custom-configured, logged-out monitoring profile. Refer to the *ONYXWorks Workstation Installation and Operation Manual* (P/N LS10050-000NF-E) for more information.

4.6.1 Overview

Monitoring Profiles allow the Administrator to select the nodes that will be monitored by a workstation. The profile is defined for a specific network and/or node on a network. That profile determines what events are displayed by the workstation. By using monitoring and control profiles, supervision of portions of the network is possible.

Monitoring profiles are event annunciation filters that are set up in the configuration tool to monitor or not monitor an event location and its event status class.

The factory-defined monitoring profile “Default” is set to monitor all networks and nodes. To hide any networks or nodes and their respective event types, a monitoring profile must be created.

Monitoring profiles must be configured before use in local event printer configuration and email configuration. Refer to the *ONYXWorks Workstation Installation and Operation Manual* (P/N LS10050-000NF-E) for more information.

4.6.2 Adding a New Monitoring Profile

Add a new monitoring profile as follows:

1. Go to **System > Monitoring Profiles**. The Monitoring Profiles window displays.
2. Click the **Add** button.
3. Enter a unique name for the profile (default is “New”). The new profile name is added to the monitoring profiles list in the left-hand pane.
4. Under **Status**, deselect any checkboxes for status classes that will not be monitored.
5. Under **Network**, click the checkboxes for the networks/nodes on the system that are to be monitored. Use the scrollbar to view all available options.
6. Click **OK**.

4.6.3 Copying a Monitoring Profile

1. In the Monitoring Profiles window, click the label of the profile to be copied in the monitoring profiles list and click the **Copy** button.
2. Enter a unique name for the new profile.
3. Modify the settings as necessary as described in 4.6.2, "Adding a New Monitoring Profile".
4. Click **OK**. The copied profile is added to the profile list.

4.6.4 Deleting a Monitoring Profile

1. In the Monitoring Profiles window, click the label of the profile to be deleted in the monitoring profiles list and click the **Delete** button.
2. Click **OK**.

4.6.5 Logged-Out Monitoring Profile

A logged-out monitoring profile operates when there is no one logged into the workstation. The default profile monitors all nodes and all events; however, a custom profile can be configured as follows:

1. Create a unique profile as specified in 4.6.2, "Adding a New Monitoring Profile".
2. Go to **System > Options**. The System Options window displays.
3. Under **Logged-Out Monitoring Profile**, select the desired monitoring profile from the drop-down list.
4. Click **OK**.

4.7 Control Profile Configuration

4.7.1 Control Profiles Overview

Control profiles allow users with sufficient privileges to select what network and nodes will be controlled by a workstation. Control profiles enable the right-click menu options (enable, disable, arm, disarm etc.) on point icons and on events in the events boxes. A profile can be defined for either a network or a single node.

A remote node can only accept a command or acknowledgment from a workstation which controls it. When a user acknowledges an event from a workstation that does not control the node where the off-normal device resides, the event is acknowledged at that workstation only.

Only one workstation at a time may control a given node. Taking control of a node from one workstation automatically cancels control of that node at any other workstation.

A fire network may be monitored by multiple workstations, each of which control only a portion of the nodes on the network. This is often the most feasible solution for monitoring large networks.

Control Profiles are only available on workstations running in Primary Receiving Unit (PRU) mode. In addition, the Administrator must enable node control in the workstation via **Menu > Configure > Options > General Tab > Use Node Control > Yes**.

4.7.2 Adding a New Control Profile

Add a new control profile as follows:

1. Go to **Control > Control Profiles**. The Control Profiles window displays.
2. Click the **Add** button.
3. Enter a unique name for the profile (default is “New”). The new profile name is added to the control profiles list in the left-hand pane.
4. Select the network/nodes to be included in the profile by checking the checkbox to the right of the component label.
5. Click **OK**.

4.7.3 Copying a Control Profile

1. In the Control Profiles window, click the label of the profile to be copied in the control profiles list and then click the **Copy** button.
2. Enter a unique name for the copied profile (default is “New”).
3. Modify the settings as necessary.
4. Click **OK**.

4.7.4 Deleting a Control Profile

Delete a control profile by selecting the label of the profile in the profiles list and then clicking the **Delete** button. Then click **OK**.

4.8 Chemicals Window

The Chemicals window (**System > Chemicals**) contains properties of hazardous materials so their information can be associated with HAZMAT Area icons in FirstVision. This window has a catalogue of predefined hazardous chemicals along with their health hazard, flammability, reactivity and special hazard indications. An Administrator can add other chemicals with their indications as needed. A Material Safety Data Sheet (MSDS) in PDF format can be associated with any chemical listed. Chemical window features are described below.



Item	Feature	Description
1	Chemicals List	Alphabetical list of predefined and custom hazardous chemicals.
2	Add Button	Click to configure a new chemical and add it to the chemicals list.
3	Delete Button	Click to delete the selected chemical in the chemicals list.
4	Chemical Name Field	Displays the name of the chemical selected from the list. Enter the chemical name in the field when adding custom chemicals.
5	Hazard Property Fields	Displays the hazard levels for the selected predefined chemical. Select from the drop-down list when adding custom chemicals.
6	Datasheet Field	Click to browse to the location of a Material Safety Data Sheet (MSDS) in PDF format, to be associated with the selected hazardous chemical.
7	Custom Hazard Field	Allows the user to enter text concerning special hazards of a custom chemical.
8	Special Hazards Fields	Select **Yes** to assign these properties to the selected or added chemical.
9	OK	Click to save settings and close the window.

Figure 4.5 Chemical Window Features

Manufacturer Warranties and Limitation of Liability

Manufacturer Warranties. Subject to the limitations set forth herein, Manufacturer warrants that the Products manufactured by it in its Northford, Connecticut facility and sold by it to its authorized Distributors shall be free, under normal use and service, from defects in material and workmanship for a period of thirty six months (36) months from the date of manufacture (effective Jan. 1, 2009). The Products manufactured and sold by Manufacturer are date stamped at the time of production. Manufacturer does not warrant Products that are not manufactured by it in its Northford, Connecticut facility but assigns to its Distributor, to the extent possible, any warranty offered by the manufacturer of such product. This warranty shall be void if a Product is altered, serviced or repaired by anyone other than Manufacturer or its authorized Distributors. This warranty shall also be void if there is a failure to maintain the Products and the systems in which they operate in proper working conditions.

MANUFACTURER MAKES NO FURTHER WARRANTIES, AND DISCLAIMS ANY AND ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCTS, TRADEMARKS, PROGRAMS AND SERVICES RENDERED BY MANUFACTURER INCLUDING WITHOUT LIMITATION, INFRINGEMENT, TITLE, MERCHANTABILITY, OR FITNESS FOR ANY PARTICULAR PURPOSE. MANUFACTURER SHALL NOT BE LIABLE FOR ANY PERSONAL INJURY OR DEATH WHICH MAY ARISE IN THE COURSE OF, OR AS A RESULT OF, PERSONAL, COMMERCIAL OR INDUSTRIAL USES OF ITS PRODUCTS.

This document constitutes the only warranty made by Manufacturer with respect to its products and replaces all previous warranties and is the only warranty made by Manufacturer. No increase or alteration, written or verbal, of the obligation of this warranty is authorized. Manufacturer does not represent that its products will prevent any loss by fire or otherwise.

Warranty Claims. Manufacturer shall replace or repair, at Manufacturer's discretion, each part returned by its authorized Distributor and acknowledged by Manufacturer to be defective, provided that such part shall have been returned to Manufacturer with all charges prepaid and the authorized Distributor has completed Manufacturer's Return Material Authorization form. The replacement part shall come from Manufacturer's stock and may be new or refurbished. THE FOREGOING IS DISTRIBUTOR'S SOLE AND EXCLUSIVE REMEDY IN THE EVENT OF A WARRANTY CLAIM.

Warn-HL-08-2009.fm

NOTIFIER
12 Clintonville Road
Northford, CT 06472-1610 USA
203-484-7161
www.notifier.com

NOTIFIER®
by Honeywell