EDWARDS

LIFE SAFETY & INCIDENT MANAGEMENT

FireWorks®

Incident Management Platform

S3424

7300-1657: 0213

FDNY COA 6228

Overview

FireWorks is an incident management command and control platform that comprises hardware, software, and networking components that together provide a powerful and cohesive Mass Notification and Life Safety solution. Sophisticated networking technology allows it to integrate seamlessly with EDWARDS life safety solutions, yet FireWorks remains fully interoperable with third-party equipment, making it ideal for system upgrades or new installations alike.

FireWorks can automatically trigger programmed responses to facility events, or it can act as an operator interface for manual control. The FireWorks user interface provides a clear, concise and coordinated view of any situation by presenting information strategically. Five configurable graphical viewports offer simultaneous insight into different aspects of an incident, while the underlying software dynamically manages content in each viewport based on real-time events and user interaction. Facility maps, live video feeds, audio channels, protocol information and fingertip control over vital equipment all come together instantly within view of an operator facing events that require solid information and split-second timing.

Supporting every FireWorks workstation is a sophisticated network backbone—strong enough to handle coordinated critical control functions from as many as 30 client workstations and many other devices, yet flexible enough to manage integration with third-party mass notification systems.

Redundant server options gives FireWorks the ability to switch automatically and seamlessly to a reliable backup server. When a component of the primary FireWorks server fails, the redundant system fails over to the backup server to ensure continuity. FireWorks can operate on an existing local area network, or provide facility access from anywhere in the world via secured Virtual Private Network (VPN) connections.

Standard Features

- **Widely listed to prevailing Mass Notification and Life Safety standards**
  Readily adopted for standalone or remote applications
- **Listed for UUKL Graphical FSCS Applications**
  Cost-effective and scalable graphical smoke control station
- **Dynamic event-driven user interface**
  Easy-to-follow notification and control protocols
- **Software-only standalone versions**
  Cost-effective annunciation where agency listings are not required
- **Highly Sensitive Smoke Detector (HSSD) support**
  Full command and control integration with *VESDAnet* detectors
- **FW-FAST Automatic System Configuration**
  Generate interactive floorplans from engineering drawings
- **Email event notification to multiple recipients**
  Instant communication with off-site personnel
- **Password-defined user access and event filtering**
  Control who sees what
- **Use native graphic formats to create event maps**
  Import most standard graphic formats—no conversion required
- **Multi-lingual operation**
  Supports English (UK, AUS, and US), Chinese (Simplified and Traditional), French (Canada), Polish, Russian, Spanish, Turkish, Portuguese (Brazil), Arabic, Hebrew, and Korean
- **Remote real-time WebClient**
  Access system information from anywhere in the world
- **Cybersecurity Hardening**
  While no system can claim 100% protection, Edwards continues to leverage best practices in security testing to ensure protection. Cybersecurity is a constant threat and system hardening will continue beyond this release so you can feel confident now and going forward. The following are highlights of our new cybersecurity enhancements:
  - Compliance: RMF with P2P CIA High baseline with 800-53R4 controls
  - Penetration Testing: We have utilized external pen testing with APPLUS and internal penetration testing to discover and fix critical vulnerabilities.
  - Static Analysis: FireWorks' code was scanned for CWEs to improve cybersecurity

Application

Scalable Third-party Integration

FireWorks can receive information from third-party systems by way of the FW-DARCOM (with Bosch D6600/D6100 option and/or with the MN-NETRLY4 input/output modules.

FireWorks systems can send certain UL 2572 V1, Technical Category TC1, TC2, TC3 and TC4 outputs to third-party systems by way of the MN-FVPN VoIP, MN-NETRLY4 and/or Signature Series modules. The EDWARDS APS6A and APS10A can be easily configured to support most third-party interfaces.

Flexible Email Messaging

To enhance off-premise notification, FireWorks supports connection to a Simple Mail Transfer Protocol (SMTP) mail server, allowing event information to be emailed. This provides the ability to get event information automatically, efficiently and inexpensively to the people who need to know about events in facilities.

Email messages can be configured based on individual events, event categories and more. Certain people can receive all system events, others can receive only alarm conditions, while still others can receive only specific events—the options are easy to configure and also to change.

Valuable Reporting Functions

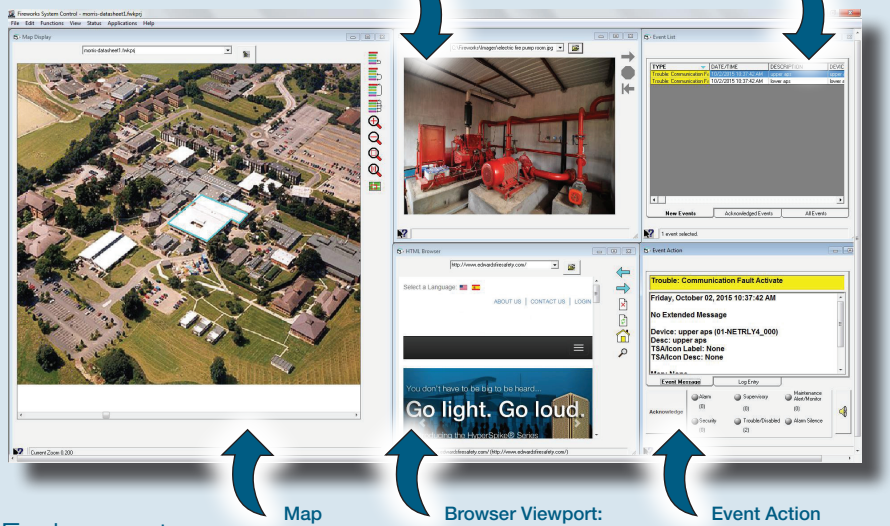
The Fireworks report functionality allows the system administrator or other authorized user to create and retrieve panel reports. Reports include *Panel Status, Disabled Points* and *Sensitivity*. Meanwhile, a full history report generator allows the review of historical panel events.

FireWorks has a versatile *Devices Test Report*. This report allows for devices that have been tested as part of a Service Group to be included in a National Fire Protection Association (NFPA) Fire Alarm And Signaling Code (NFPA 72) formatted report.

Dynamic Viewports

Image Viewport:
Displays images relevant to the occurrence. Any event, any device, or any combination of devices and events can retrieve instant graphical information that is relevant to the occurrence and can be understood at a glance.

Event List Viewport:
Upon receipt of a change of state, the event information is displayed in the Event List Viewport. If several events are received, all events are displayed in the Event List viewport and are color-coded by priority.



Each operator can customize the system to have anywhere from two to five viewports visible.

Map Viewport:
This gives the user an overview of the event's location in the context of its surroundings and the entire facility.

Browser Viewport:
When the FireWorks workstation is provided with an Internet/network connection, the Browser Viewport can be configured to automatically connect to emergency information sites, network accessible building automation, video streams and other third-party systems.

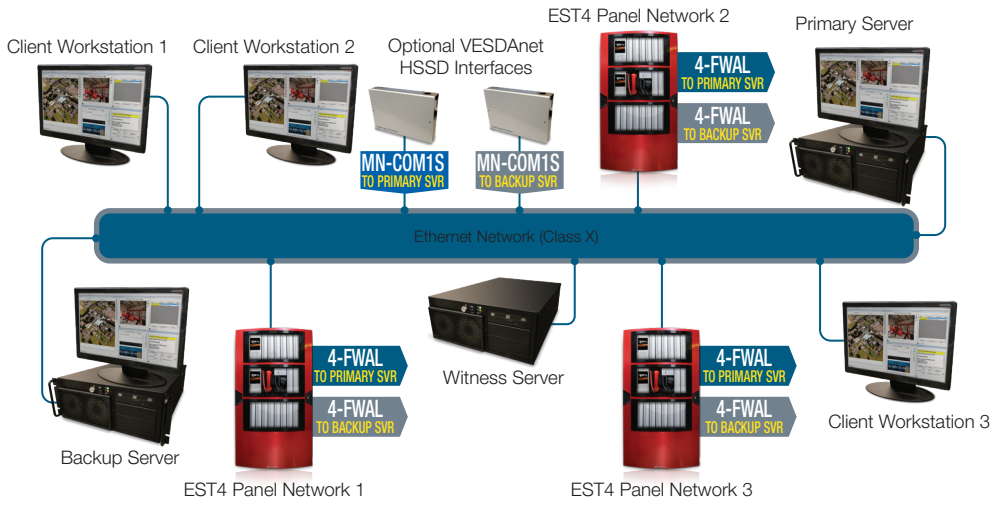
Event Action Viewport:
This screen is used to provide instructions on how to respond to the selected event, and also to acknowledge that these instructions have been carried out.

Powerful Network Capabilities

- Up to 15 Graphical Command/Control WorkStations with Non-Redundant Server option
- Up to 30 Graphical Command/Control WorkStations with Redundant Server option
- Up to 15 concurrent Text-Only WebClient clients
- 25 EST4 networks, each supporting up to 150 CPUs
- 125 EST3 networks, each supporting up 64 panels
- Up to 800 MN-FVPN Voice over Internet Protocol (VoIP) or MN-NETRLY4 Input/Output modules
- Up to 1,000 iO Series panel connections via IFW-IPMON 1000 and FW-DARCOM with up to 1000 points per system for up to 1,000,000 points from iO systems.
- DACR accounts with FW-DARCOM and Bosch D6600/6100 supports 3,200 Dial-up or 500 IP Contact ID accounts
- Up to 20 *VESDAnet* networks with each native network having up to 61 detectors in life safety mode (1,220 detectors) or 100 detectors in process monitoring mode (2,000 detectors) (Non-UL system may exceed 20 HLI/FW/HSSX1)

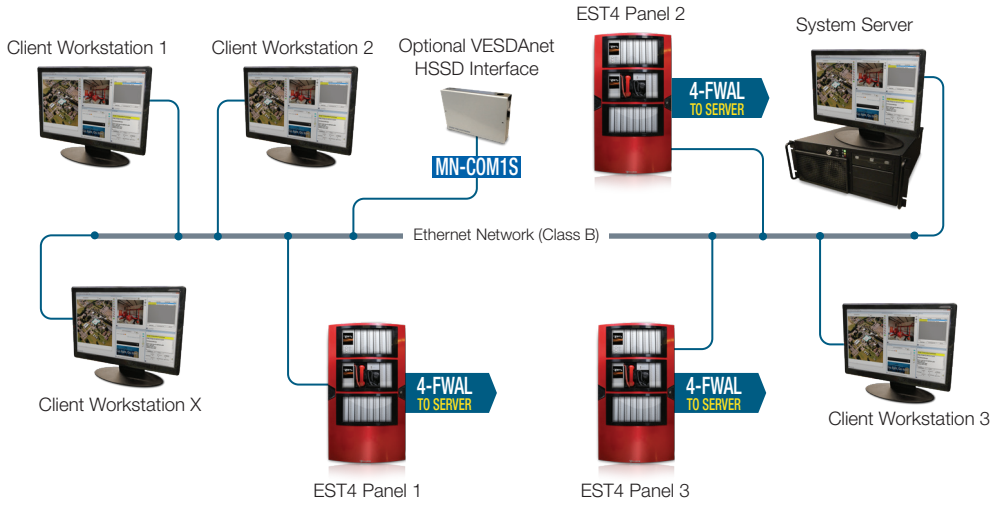
FireWorks Networks Topologies

Redundant Network: up to 30 Client Workstations



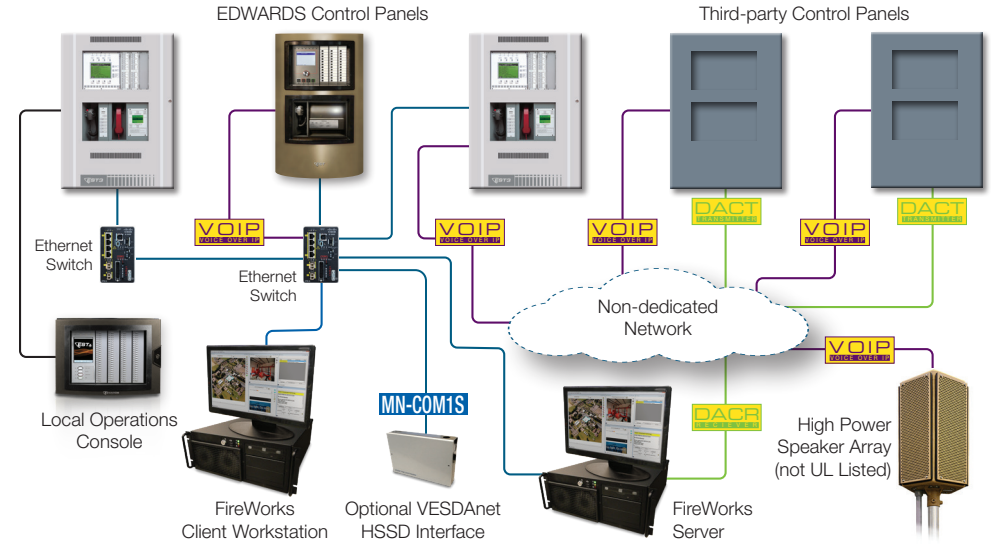
- System will support up to 30 client workstations
- System will have Primary, Backup, and Witness servers with automatic transfer from Primary to Backup
- Servers require a quorum to operate
- All connections are supervised and will post faults across the network
- The network must have a dedicated VLAN with priority signaling
- Network switches must have UPS power

Non-redundant Network: up to 15 Client Workstations



- Utilizes Microsoft configuration requirements
- System will support up to 15 client workstations
- All connections are supervised and will post faults across the network
- The network must have a dedicated VLAN with priority signaling
- Network switches must have UPS power

Example UL Listed Mass Notification: Scalable Third-party Integration



- Large network capacity for global and enterprise-wide connectivity
- Compatible with third-party networks
- UL/ULC Listed for Mass Notification and Security applications
- Easy-to-navigate event-driven viewport display
- Internet/WAN connectivity
- Monitor and control for single- or multi-line networks
- Automatic email notification to multiple recipients
- Context-sensitive event action instructions
- Create event maps with standard graphic formats
- Digital Alarm Receiver connectivity

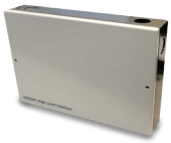
Network Options

FW-FAST: Automatic System Configuration

FireWorks Assimilation Systems Technology can significantly reduce the time and expense of programming or modifying a FireWorks system database. This unique and powerful option reads properly formatted AutoCAD® and EDWARDS System Definition Utility (SDU) and 4CU files to automatically create floorplans with device locations, and panel renderings with pseudo point touch-sensitive areas. Floorplans and panel renderings can then easily be inserted into the FireWorks system.

Note: Only Available for EST4, EST3, and EST3X.

FW-HSSX1: Aspirated Detection Interface



FireWorks Highly Sensitive Smoke Detector (HSSD) interface provides UL Listed/FM Approved digital command/control integration with Xtralis VESDA® Series smoke detectors for very early fire detection. FireWorks can respond to individual sector/pipe conditions, detector events, as well as minor and major faults across 20 VESDA nodes encompassing as many as 2,000 VESDA detectors. It can also reset and perform certain other control functions of the *VESDAnet* detectors.

FW-DARCOM: Third-Party Interoperability

This option allows for a FireWorks system to support Digital Alarm Communicator Receiver (DACR) operation. The DACR can be any Bosch® D6600/D6100 DACR that can receive Security Industry Association (SIA) Contact ID or 4/2, or the cost-effective FWIPMON1000 option.

IPMON1000: Life Safety Integration

When used in conjunction with FW-DARCOM software, this option supports digital connection to up to a total of 1,000 EDWARDS iO Series control panels for receive-only Contact ID operation. Each individual zone or addressable device can display on the FireWorks system.

WebClients: Global VPN Communications

FireWorks systems support an optional real-time Remote Client remote read-only text viewing feature that can be accessed from anywhere in the world via a secured Virtual Private Network (VPN) connection, or local network connection. Remote Client events mirror the FireWorks system Event List and Event Action viewports. These events are prioritized and color-coded for easy identification by type and source. Events may also be filtered at the Remote Client, and sound files can be added per alarm, supervisory, trouble or monitor event category.

Any number of remote clients can be deployed by FireWorks. The number of concurrent connections possible is determined by the software license option. The Remote Client can also run many reports for the remote workstation and print them to a local printer or output them to a .csv file.

Hardware Options

Workstations

The FireWorks FW-UL7W Workstation is a UL 864/ULC S527 Listed and hardened industrial workstation that can be used for any Workstation or Witness Server application. FW-UL7W is also UL 864 UUKL/UUKL7 listed for graphical FSCS functionality. The FW-UL7W cannot be used as a Redundant or Non-Redundant System Server. The FW-UL7W has the following specifications:

- PassMark score: 21,000
- CPU: i9 Intel® processor with 10 core/20 threads
- RAM: 32GB 2x DDR4 Memory
- Hard drive: 1TB SSD drives in RAID1 mirroring
- Trusted Platform Module (TPM): Infineon TPM2.0 OPT
- Power Supply: FSP Technology 350W 100-240VAC 50/60 Hz
- Video Controller: Intel® HD Gen 9 Graphics
- Three independent and isolated video Ports: DP++ 4K, HDMI, and VGA
- Ethernet ports: Dual GB Ethernet
- Watchdog: Intelligent monitoring of voltage, fans, CPU heat and fan speed control

Servers

The FireWorks FW-UL7S Server is a UL 864/ULC S527 Listed and FM Approved hardened industrial workstation that can be used for any FireWorks—Server, Workstation or Witness Server. The FW-UL7S is also UL 864 UUKL/UUKL7 Listed for graphical FSCS functionality. The FW-UL7S has the following specifications:

Hardware Highlights:

- PassMark score: 21,000
- CPU: i9 Intel® processor with 10 core/20 threads
- RAM: 64GB DDR4 Memory
- Hard drive: 1TB SSD drives in RAID1 mirroring
- Trusted Platform Module (TPM): Infineon TPM2.0 OPT
- Power Supply: FSP Technology 350W 100-240VAC 50/60 Hz
- Video Controller: Intel® HD Gen 9 Graphics
- Three independent and isolated video Ports: DP++, 4K, & VGA
- Ethernet ports: Dual GB Ethernet
- Watchdog: Intelligent monitoring of voltage, fans, CPU heat and fan speed control

Mechanical for both server and workstation:

- Dimensions: 4U, Width: 16.94", Depth: 18.0", Height: 6.97"
- Weight: 22 Lbs.
- Power lock: Key lock for power on/off with status LEDs
- Card hold-down bar to lock PC cards in place.
- Cooling fans: Dual quiet PWM 120mm high-capacity filtered fans

Operating System:

- Microsoft Window 10 LTSC

Monitors

The FireWorks solution offers 2 UL/ULC Listed monitor options: 22" and 42" touchscreen. Each FireWorks workstation can support multiple monitors:

- Resolution 1920 x 1080 HD
- Brightness (typical) 300 cd/m2 LCD
- Touchscreen Option, Capacitive
- Approvals UL864 9th Edition, ULC-S527-11 3rd Edition and UL 2572 Recognized
- Input Signal VGA - D-Sub 15 Pin DVI-Connector
- Speaker (2) Multimedia, Built-In, 2 Watt, 3.5mm Audio Plug

Monitors (continued)

The FW-42LCDWTS is a touchscreen unit with:

- Dimensions (WxHxD): 40.7" x 25.21" x 4" (1033.78mm x 640.33mm x 101.6mm)
- Ports: USB, RCA
- VGA Ports: (1) SVGA
- DVI Ports: (1) DVI
- Color: Black
- Certifications: UL864 10th Edition/ULC-S527-11/ UL 2572 Recognized
- Brightness: 700-nit
- Speakers: (2) stereo
- Weight: 80 lbs.
- VESA Wall Mount Ready: 100mm x 100mm

Network Accessories

MN-FNS8C2F3
Managed Ethernet Switch
DATA SHEET E85010-0153

FireWorks can operate on dedicated (recommended) or non-dedicated Ethernet networks.

EDWARDS offers one of the most robust and powerful UL/ULC Listed/FM Approved Managed Ethernet Networking solutions available. MN-FNS Series Managed Ethernet Solutions are powered by Cisco® technologies. Layer 2 and Layer 3 switches/ routers are available, along with interface modules that support single or multimode fiber optic media. Class B, Class X, Mesh and Hybrid topologies are fully supported.

UL/ULC Listed/FM Approved MN-FVPN Voice over Internet Protocol (VoIP), MN-NETRLY4 input/output and MN-COM1S Communication Modules are all supported by the FireWorks platforms.

MN-FVPN
Data Sheet
85010-0143

MN-NETRLY4
Data Sheet
85010-0149

MN-COM1S
Data Sheet
85010-0144

FireWorks, along with the EST3(X)/ EST4, can control the crystal-clear and powerful HyperSpike High and Medium Power Speaker Arrays.

See DATA SHEET E85001-0637 for more information.

Always consult the latest Agency Standards, Consensus Standards/Codes and with the Local Authority Having Jurisdiction for system application and installation requirements.

See Ordering Information List for FireWorks Hardware Accessory information and descriptions.

Agency Listing

The FW-UL7W and FW-UL7S have been investigated against, and found to be in compliance with, the following standards:

- CAN/ULC-S527-11 Standard for Control Units for Fire Alarm Systems, 2nd edition
- CAN/ULC-S559-04 Standard for Equipment for Fire Signal Receiving Centres and Systems, 1st edition
- CSA C22.1-12 Canadian Electrical Code, Part 1
- UL 864 Standard for Control Units and Accessories for Fire Alarm Systems, 10th edition
- UL 2017 Standard for General-Purpose Signaling Devices and Systems, 2nd edition
- UL 2572 Standard for Mass Notification Systems, 1st edition
- NFPA 11 Standard for Low-Expansion Foam Systems, 2010 edition
- NFPA 11A Standard for Medium- and High-Expansion Foam Systems, 2010 edition
- UL 864 UUKL/UUKL7 Graphical Firefighter Smoke Control Station
- UL 864 BSIU Building System Information Unit (FW-UL6W only)
- NFPA 12 Standard on Carbon Dioxide Extinguishing Systems, 2011 edition
- NFPA 12A Standard on Halon 1301 Fire Extinguishing Systems, 2009 edition
- NFPA 12B Standard on Halogenated Fire Extinguishing Agent Systems Halon 1211
- NFPA 13 Standard for the Installation of Sprinkler Systems, 2013 edition
- NFPA 15 Standard for Water Spray Fixed Systems for Fire Protection, 2012 edition
- NFPA 16 Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems, 2011 edition
- NFPA 17 Standard for Dry Chemical Extinguishing Systems, 2013 edition
- NFPA 17A Standard for Wet Chemical Extinguishing Systems, 2013 edition
- NFPA 70 National Electrical Code
- NFPA 72 National Fire Alarm Signaling Code
- NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems, 2012 edition
- UL 2572 security and data protection
- For UL 2572 first edition applications only
- Approved Security Function for FIPS PUB 140-2: No encryption employed
- Communication Security: Level 1
- Stored Data Security: Level 0
- Access Control Security: Level 2
- Physical Security: Level 1
- Audit Control: Not provided
- FM Approved
- FDNY
- CSFM

Ordering Information

System Software	
FW-CGS	Standalone FireWorks Color Graphics Software PIN letter. Allows full 5 view port display. Includes FW-FIREKEYUSB. No common control.
FW-CGSUL	Standalone FireWorks Color Graphics Software PIN letter. Allows full 5 view port display. Includes FW-FIREKEYUSB. With common control.
FW-NCZZFP	Non-Redundant Server Client license. One Hasp PIN Code. Requires one new FW-CGSUL base package, ordered separately.
FW-NSZ5FP	5 seat non-redundant server. One Hasp PIN code for server only. Order Workstation Client licenses separately. Requires one new FW-CGSUL base package, ordered separately.
FW-NS15FP	15 seat non-redundant server. One Hasp PIN code for server only. Order Workstation Client licenses separately. Requires one new FW-CGSUL base package, ordered separately.
FW-RCZZFP	Redundant Server Client license. Requires one new FW-CGSUL base package, ordered separately.
FW-RSZ5FP	5 seat redundant server for new installations. Three Hasp PIN codes, two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately. Requires one new FW-CGSUL base package, ordered separately.
FW-RS15FP	15 seat redundant server for new installations. Three Hasp PIN codes, and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately. Requires one new FW-CGSUL base package, ordered separately.
FW-RS25FP	25 seat redundant server for new installations. Three Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately. Requires one new FW-CGSUL base package, ordered separately.
FW-RS50FP	50 seat redundant server for new installations kit. Three Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately. Requires one new FW-CGSUL base package, ordered separately.

Upgrade Software	
FW-NCZZWP	Upgrade existing FW-CGSUL license to Non-Redundant Client license. One Hasp PIN Code.
FW-NCZZXP	Upgrade existing FW-CGS license to Non-Redundant Client license. One Hasp PIN Code. Includes one FW-CGSUL base package.
FW-RCZZUP	Upgrade existing Non-Redundant Server Client to Redundant Server Client upgrade. One Hasp PIN code.
FW-RCZZWP	Upgrade existing FW-CGSUL license to Redundant Server Client license. One Hasp PIN Code.
FW-RSZ5UP	Upgrade existing 5 Seat non-redundant server to 5 seat redundant server cluster. Two Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately.
FW-RS15UP	Upgrade existing 15 Seat non-redundant server to 15 seat redundant server cluster. Two Hasp PIN codes and two Microsoft SQL licenses for servers only. Order Workstation Client licenses separately.
FW-SQL5UP	Upgrading FireWorks Redundant system from existing 5 seat SQL to 5 seat SQL 2019
FW-SQL15UP	Upgrading FireWorks Redundant system from existing 15 seat SQL to 15 seat SQL 2019

FireWorks Software - Options	
FW-1S	One Seat WebClient.
FW-4S	Four Seat WebClient (Requires FW-1S).
FW-10S	Ten Seat WebClient (Requires FW-1S & FW-4S).
FW-DARCOM	Pin Code for Communication to DACRs and/or IPMON1000.
FW-FAST	Pin Code for FireWorks Assimilation System Technology (FAST) AutoCAD® reader and panel building option for FireWorks Server or Standalone system. Reads AutoCAD ® files and correlates with project SDU to create or update FireWorks database.
FW-HSSD5	Pin Code for Single VESDA HLI Interface software PIN code. Enables connection of one (1) to five (5) VESDA HLI (FW-HSSX1) to FireWorks as nodes. Requires one FW-HSSX1 High Level Interface for each VESDA network if using Standalone or Non-Redundant Server and two if using Redundant FireWorks Servers. Each server must have its own separate FW-HSSX1.
FW-HSSD20	Pin Code for Single VESDA HLI Interface software PIN code. Enables connection of one (1) to twenty (20) VESDA HLI (FW-HSSX1) to FireWorks as nodes. Requires one FW-HSSX1 High Level Interface for each VESDA network if using Standalone or Non-Redundant Server and two if using Redundant FireWorks Servers. Each server must have its own separate FW-HSSX1.
FW-IPMON1000	Pin Code for IP Monitoring for 1000 connections to iO Series panels. Requires companion software option FW-DARCOM.

Servers, Workstations	
FW-UL7W	A powerful workstation with Window 10 LTSC professional version
FW-UL7S	A powerful server with Windows 10 LTSC professional version

Servers, Workstations Options	
FW-HSSX1	FireWorks to VESDA High Level Interface Module with enclosure. Requires FW-HSSD5 or FW-HSSD20 software. UL/ULC for command/control. Maximum 61 VESDA detectors for Life Safety applications or up to 100 VESDA detectors for process control (non-Life Safety) per FW-HSSX1. 24 VDC.
FW-SP4I	Isolated Serial Port card for the FW-UL7W and FW-UL7S Workstation and Server. Provides four serial ports. Cannot be used on FW-UL6S Servers.
PT-1S+	System Printer - Desktop Style.
FW-FILTER	FW-UL5, FW-UL6, FW-UL7W, and FW-UL7S computers replacement front fan air filter kit.

Servers, Workstations Installation Accessories	
BP1	Blank Panel for 19 inch Enclosure, 1 panel space - 1.75 inch x 19 inch.
BP2	Blank Panel for 19 inch Enclosure, 2 panel spaces - 3.5 inch x 19 inch.
BP3	Blank Panel for 19 inch Enclosure, 3 panel spaces - 5.25 inch x 19 inch.
BP6	Blank Panel for 19 inch Rack /w 2.5 FP spaces, 6 panel spaces - 10.5 inch x 19 inch.
FW-RACKKB	Keyboard Rack mount kit - Black - 2 EIA panel spaces required.
FW-RACKPC	Workstation Rack mount kit for FW-UL6 and UL7 - Black.
MFC-A	Fire Control Accessory, Multi-Function Enclosure, 8" x 14" x 3.5", Red.
VP-1	Ventilation Panel 1-3/4".
VP-3	Ventilation Panel 3-1/2".

Monitors, Monitor Accessories	
FW-22LCDWTS	22" capacitive touchscreen with integral speakers. Comes with desk stand cable set and driver disk.
FW-22LCDRMK1	22" wall mount bracket kit for the 22" monitor – single display.
FW-42LCDHMK1	42" wall mount bracket kit - single display, horizontal.
FW-42LCDWTS	42" surface acoustic wave SAW touchscreen. Comes with cable set and driver disk. Requires mounting bracket kit.

Network Modules, Accessories	
MN-ABPM	Audio Bridge, panel mount - Mounts on MN-BRKT1 or MN-BRKT3.
MN-COM1S	UL 864 Listed FireWorks Communications Ethernet Port, Command & Control. Comes with power and RS232 data cables.
MN-FVPN	Voice Over Internet Protocol (VoIP) encoder/decoder, includes power and audio cable.
MN-NETRLY4	Ethernet controllable multi I/O module. 4 unsupervised inputs & 4 unsupervised outputs. Comes with one MN-NRKB1.
MN-NRBK1	Replacement mounting bracket with end caps for single MN-NETRLY4.
MN-NRMP	Mounting plate to allow up to 2 MN-NETRLY4 modules to be mounted on a MN-BRKT1 bracket.
MN-PASM2	Preamp audio supervision module. Provides Form C dry contact for audio or module failure.

Upgrade and Update Kits	
FW-UL6WW10UK-9.1	Thumb Drive to upgrade FW-UL6W from Windows 7 to Windows 10
FW-UL6SW10UK-9.1	Thumb Drive to upgrade FW-UL6S from Windows 7 to Windows 10
FW-UL6WW10UD-9.2	Workstation operating system security updates for FW-UL6WW10 (myEddie download required for V9.2)
FW-UL6SW10UD-9.2	Server operating system security updates for FW-UL6SW10 (myEddie download required for V9.2)

LIFE SAFETY & INCIDENT MANAGEMENT

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