A NEW LEADER

EST4 is the premier emergency communications system from EDWARDS.

EST4
Networked Life Safety Platform

Troy
Life & Fire Safety Ltd.

EDWARDS
NATIONAL PARTNER

EST4
Networked Life Safety Platform

Robust Fire Safety

This exciting flagship system features a whole new network architecture that makes fire alarm, mass notification, and building integration easy to implement, quick to service, and secure in the face of today's cyber threats.

EST4 demonstrates that form and function are inseparable elements of good system design, from its thoughtfully crafted interface to its advanced connectivity and extensive system capacity. It provides systems engineers with the tools they need to create projects that exceed expectations and have plenty of room to grow, all while respecting facility budgets and construction schedules.

The net result is an emergency communications system equally suited to new and retrofit projects; a platform that keeps property safe and steers people clear of danger.

EST4 is a modular system uniquely designed to easily meet the needs of standalone single panel systems or multi-panel networks. Life safety functions including Fire alarm, audio, mass notification all use the same fundamental components, simplifying system layouts.

User Interface – Display & Control

EST4 is designed for ease of use. The colour LCD touchscreen provides intuitive navigation and will display eight events at a time. Four tactile rubber buttons are dedicated to control functions that are most needed during an emergency. It all adds up to a system that gives responders quick access to vital system event information and control functions.

Networking

Thanks to its self-configuring network, EST4 easily deploys and configures without intervention by network administration personnel. It adapts to a wide range of network configurations, including rings, stars, redundant segment, and full mesh topology. The network even allows changes in the physical layer from copper to fiber, and employs hot-swappable network connections at control panels and annunciators. The result is improved network reliability and money saved, at installation and throughout the panel's life cycle.

EST4's network is powerful enough to drive the biggest installations viable today. It can handle miles of wire runs and many thousands of addressable points.
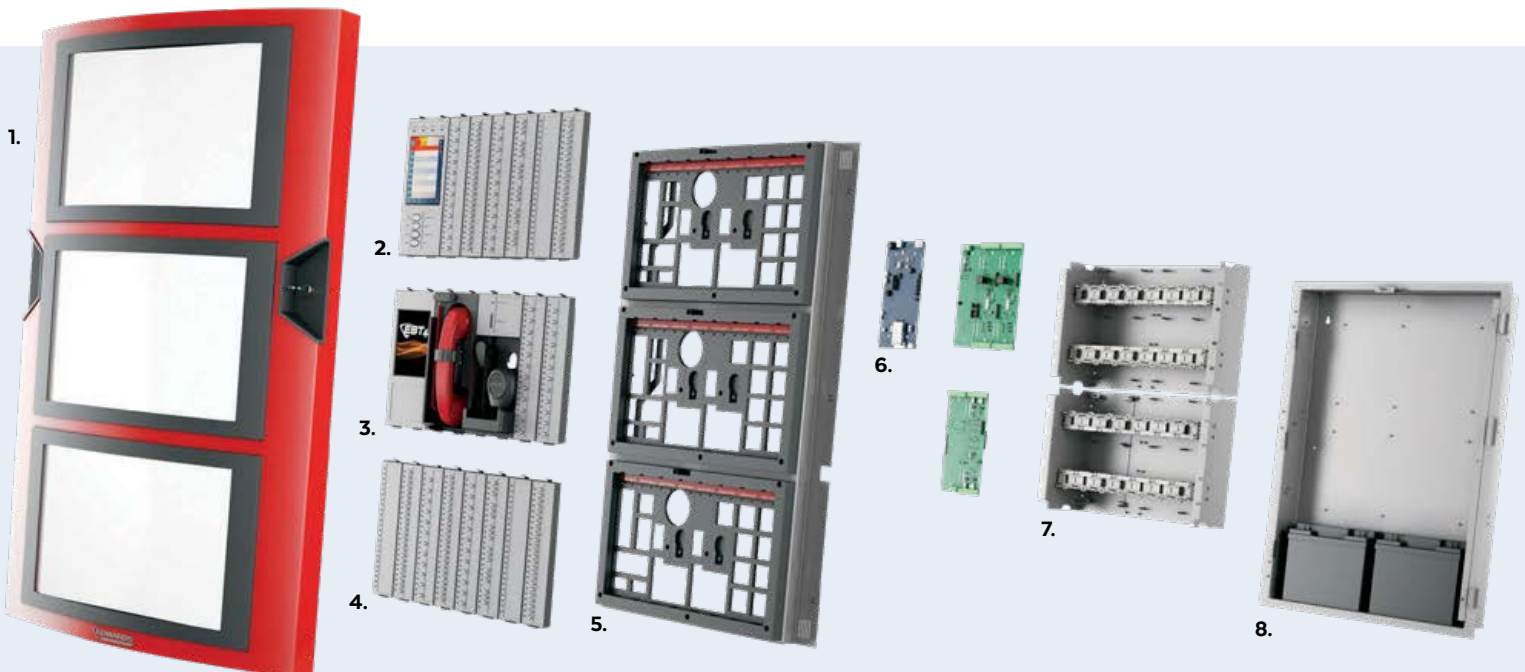
System design benefits greatly from this huge capacity. Minimal cabling requirements take scalability a step further. With EST4 a single copper pair or single fiber supports panel network data, audio data, as well as telephone data. This cuts cable counts by up to 75 per cent. Meanwhile, multiple fire-fighter's telephone risers are accommodated on the network, which allows them to be deployed at much further distances.

Reduced network cabling not only boosts system efficiency by requiring fewer physical connections, it also saves money by reducing material and labour costs. This means that new EST4 installations benefit from lower cable counts, while retrofits may be able to be upgraded to support audio and telephones without the need to pull additional cable.

For new installations EST4 delivers flexibility. It can use twisted pair wire, Multi-mode fiber, Single Mode fiber, and even CAT5 cable.

Audio

Nothing informs building occupants better than the spoken word, and EST4's highly intelligible voice audio ensures that those words are heard loud and clear. This high-fidelity messaging, across EST4's impressive capacity of 100 channels, provides the flexibility that responders need to get messages out clearly and concisely.

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EST4 live paging capabilities ensure that those messages reach the right people at the right time. In addition to standard paging functions (*Page to Evacuation, Page to Alert, All Call,* and *All Call Minus*), EST4 introduces *Page to Other* and *Page to Emergency.*

Page to Other is a quick way to reach people in stairwells and elevators, while Page to Emergency is for Mass Notification purposes. This added live paging capability allows responders to reach occupants based not only on their proximity to danger, but also based on their potential to move inadvertently towards specific danger points.

EST4 live paging also lets responders select individual paging groups as well as combinations of groups.

Programming

EST4 is an open book for authorized programmers. Configuration data travels in both directions: it can be downloaded to the panel and uploaded to a laptop. This two-way movement of configuration files allows technicians to upload and backup programming before making changes to the system. By doing so, the tech ensures that trustworthy restore points are available at all times.

Adding to the integrity of panel configuration is an advanced data transfer routine that does not compromise or interrupt normal system operation. This keeps the system fully functional during configuration data exchange – logging events and executing programming during the entire process.

Cybersecurity

The security and integrity of the EST4 network is paramount to its ability to maintain systems operations in the face of outside threats. The most vulnerable point of contact for any integrated building system is where it meets the facility owner's existing TCP/IP network. Ironically it is this gateway, which enhances and expands system capability beyond the communications network, that also exposes the system to some of its most critical vulnerabilities.

To combat outside threats, every EST4 panel can deploy proxy firewalls that effectively insulate the internal fire network from external Intranet or Internet connections and the malware, ransom ware, and denial-of-services attacks that may be raging beyond.
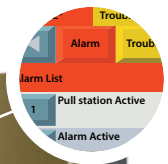
Remote access and notification

System access to EST4 doesn't end when the cabinet door swings shut. A web server in each EST4 panel allows authenticated users to gain access to day-to-day reporting.
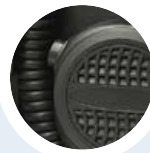
EST4 web services are device-independent and support all major browsers on PC and MAC operating systems, including mobile. Users can log into the secure EST4 web server and run system reports. Like any web page, system reports can be copied, printed, saved, and e-mailed. EST4 keeps up with the fast pace of mobile computing with its built-in e-mail services and e-mail-to-text-message capabilities. These ensure that key personnel receive instant notification of relevant changes of system state.

Technicians can be dispatched to the site within minutes of a service event, while safety and security personnel can arrive concurrently with first responders should the system go into alarm.

Full-colour touch screen

Extended Paging Microphone

Customize at will

1. **CONTOURED DOOR DESIGN**
   Modern, aesthetic appearance, available in **RED** or **BRONZE**

2. **FULL-COLOR TOUCH SCREEN**
   Fast, intuitive access to service and first-responder functions.

3. **EXTENDED PAGING MICROPHONE**
   Networked microphones with prerecorded messages at every panel enhance the system's survivability.

4. **CONTROL-DISPLAY MODULES**
   Customizable, modular design adapts to more projects.

5. **INNER DOOR/ OPERATOR LAYER**
   Makes installation of the user interface fast and easy. Provides a clean barrier between the emergency user and field wiring.

6. **CENTRAL PROCESSING UNIT**
   Modern Linux-based OS with fast processing.

7. **RAIL MODULE REUSE**
   Leverage prior investments in retrofit applications.

8. **MAXIMIZED SYSTEM POWER**
   Up to 4 power supplies in a single panel can reduce the amount of hardware and save wall space.

Event History Timelines

While system status reports are invaluable for generating snapshots of important data, EST4's event history can paint a vivid picture of the system over time. A giant 20,000-event repository comprises EST4's history, which could span back as far as the system's commissioning. Half of the history can be set aside exclusively for Alarms, ensuring that records of the most important events are preserved.

To support forensic investigations, up to 10,000 events can be locked and preserved so as not to be overwritten. EST4's large history capacity and flexible history reporting serve to create vital timelines that aid in system maintenance and forensic investigations.

Value-added Forward Migration

Easy migration paths ensure an economical transition from EST3 platforms to EST4's next-generation technology. To start, configuration data is easily transferable from an existing EST3 project to an EST4 upgrade. Hardware is also easy to migrate: all Signature Series devices, modules, and service tools are fully supported by EST4, as are Genesis series notification appliances – no rewiring is required.

Existing network cabling is also reusable for upgrades. EST4 even supports network messaging plus live paging with legacy wiring. With EST4, simple twisted pair wiring — previously useable only for panel-to-panel data communications — can support panel data, paging, as well as telephone. This means that voice audio capability may be added to a system originally wired only for network panel-to-panel communications, without pulling any additional wire.

EST4 also employs EST3 power supplies, audio amplifiers, MNEC equipment, CAB Series wallboxes, and most local rail modules. This makes the move to EST4 a cost-effective choice for existing installations and new projects alike.

It is a move that will benefit system efficiency and scalability now and for many years into the future.

HARDWARE IS EASY TO MIGRATE:

Genesis Series notification appliances and all Signature Series devices, modules, and service tools are fully supported. No rewiring is required.

EST4

Key Features:

- **Backwards Compatibility with EST3:** Reuse existing wiring, devices, and most local rail modules providing an economical migration to new technology.
- **Up to 75 percent less Network Cabling:** Network, audio, and telephone data share a single twisted pair or single fiber strand
- **Flexible IPV6 Network Design:** Use twisted pair wire, multi-mode fiber, single-mode fiber, and even CAT5 cable.
- **Firewalls meet the latest Advanced Encryption Standards** providing front-line defense against threats carried by outside networks.
- **Five-colour LED Indicators** for system status at a glance.

- **Large Full-colour LCD Touch Screen with Tactile Buttons:** Fast, intuitive access for responders.
- **Impressive 100 Audio Channels** of simultaneous digital messaging.
- **Advanced Upload/Download Protocol** eliminates system down-time during updates.
- **Multiple Firefighter's Telephone Risers** can be accommodated on the network.
- **On-board Webserver** offers remote notification and access to system status reports.
- **Email and Email-to-Text Messaging** provides Instant notification of specific event types to the appropriate personnel.

- **20,000 Event History** provides invaluable timeline data for service and investigative purposes.
- **Easily Upgrade Existing Systems** with network data only to support audio and firefighter phones, adding value and extending capabilities in retrofit situations.

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