



FireMap Graphic User Interface

- Remote monitoring and control of any fire system**
- Automatically alerts operator to fire alarm signal**
- Automatically loads a map or floor-plan showing the location of the alarm**
- User-friendly set-up and configuration**

Overview

Pertronic FireMap® is an economical fire system management tool that provides remote monitoring and graphic-based touch-screen control of Pertronic analogue addressable fire systems. When appropriately configured, FireMap can also control and monitor other equipment, including BMS equipment and non-Pertronic fire systems.

A FireMap workstation provides access to all information from connected fire panels, irrespective of the distance between FireMap workstation and connected fire panels.

Whenever a monitored fire system originates an alarm:

- » FireMap sounds an audible warning and automatically displays a pre-configured image, which may be a photograph, map, floor-plan, or any other type of image
- » The zone containing the alarm signal is highlighted on the displayed image in red
- » FireMap's status window displays the word "Alarm" and details of the location
- » Fire panels with active alarms are highlighted in red on the FireMap display
- » In Pertronic analogue addressable systems, FireMap's smart icons highlight active devices in red

FireMap's information storage and retrieval capabilities provide quick and easy access to additional information,

including contact information for key personnel, response procedures, and photographs. In Pertronic analogue addressable systems, authorised FireMap users are able to acknowledge alarms, reset devices from alarm mode, and disable (isolate) or enable devices or zones directly from any FireMap workstation.

In suitably-configured F220-Net2 systems, FireMap provides full control of fire system functions.



Pertronic FireMap® provides monitoring and touch-screen or mouse and keyboard control of any fire alarm system

Features

- » Connects with single or multiple individual fire panels and fire alarm networks, from one or more locations remote from the fire panels
- » Monitors any fire system, external inputs and configured building management system (BMS) functions
- » Provides full or limited control of selected Pertronic F220-Net2 systems and BMS functions, according to the configuration of each connected F220-Net2 system
- » Shows the overall status of each connected system
- » Displays precise location of each addressable device
- » Colour coded display of events, device status, and zone status
- » Configurable image selection: Automatically display map with oldest or newest current alarm
- » Automatically displays map for fault (defect) events
- » Distinctive individual tone for each event type
- » Monitors fire system devices even if they have not been assigned to maps
- » Monitors fire system timers and counts specified events
- » Identifies inactive connections to fire panels or networks
- » Application and history logs store up to 500,000 events
- » Monitors custom external inputs via Pertronic Ethernet Gateway (FMEGATE)
- » Easily-defined clickable links and custom buttons provide intuitive, user-configurable navigation
- » User can configure custom graphic icons representing standard or custom device types and states
- » User-friendly zone boundary creation, map editing, and map annotation
- » Imports Pertronic panel configuration text files for device data and location details
- » Imports multiple panel configurations from a single F220-Net2 Network configuration file
- » Simple synchronization of panel or Net2 Network configuration and graphics database
- » Automatic alert if a Net2 Network or networked F220 fire panel configuration is changed
- » Compatible with all Pertronic analogue addressable fire panels, and the Pertronic F220-Net2 and F100A/F120A networks

Monitoring

Images, Maps, and Floor-Plans in FireMap are arranged in a tree-structured hierarchy.

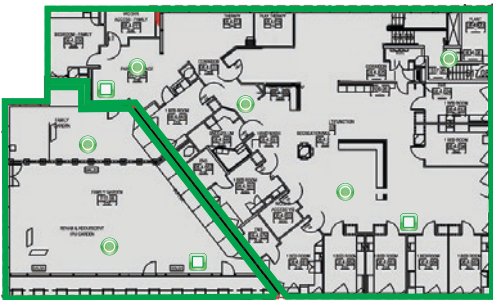


Each floor-plan shows the detection zone boundaries and fire system device locations, with a colour code identifying the status of each zone and fire system device.

The below image shows a typical FireMap floor-plan, with the fire system in the normal condition.

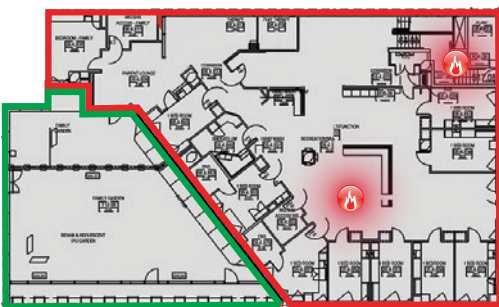
In the image

- » Green borders identify detection zone boundaries.
- » Green icons show fire system device locations (detectors and manual call points).

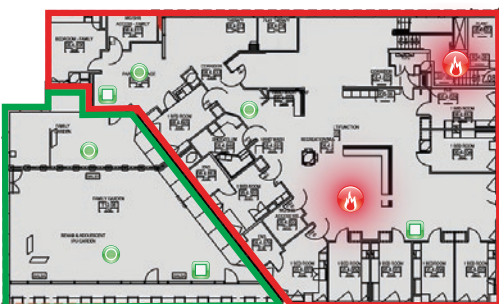


The next image shows the same floor-plan with the fire system in the Alarm condition.

Note that only devices in alarm appear on this default “Alarm” Event View. Non-alarm devices are not shown.



Alternatively, FireMap users may select the “All” Event View. In this view, all fire system devices are shown on the floor-plan (below).



Equipment Control via the Fire System or BMS



A FireMap system allows users with appropriate authorisation to control specified fire system functions, as defined in the system configuration.

- » In suitably configured Pertronic F220-Net2 fire systems, FireMap provides full control of fire detection and alarm system functions
- » In any Pertronic analogue addressable fire system, authorised users are able to acknowledge alarms, and reset or disable devices and zones
- » In a Pertronic F220-Net2 fire system with a building management system (BMS) interface, the BMS may be configured to respond to fire system control signals initiated by FireMap

Navigation in FireMap

Any image in FireMap may be linked to another map.

FireMap’s user-friendly editing tools make it easy to create link points, which can be:

- » Coloured shapes (with optional transparency)
- » Text
- » Graphics

Clicking or tapping a link point loads the map it is linked to.

Device State Counters

Device state counters provide “at a glance” monitoring of timers and equipment status. FireMap provides two types of device state counter:

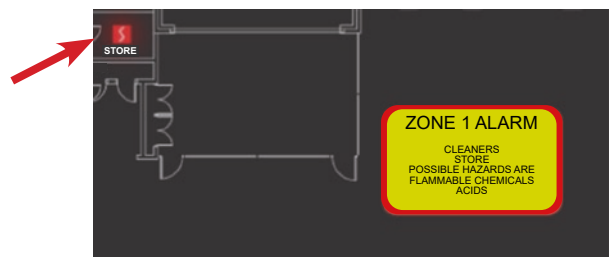
- » Timer readout
- » Event counter



Typically, device state counters are used to track the number of active valves, pumps, etc, and to monitor timers.

Note: Device state counters have no control capabilities.

Pop-Up Messages



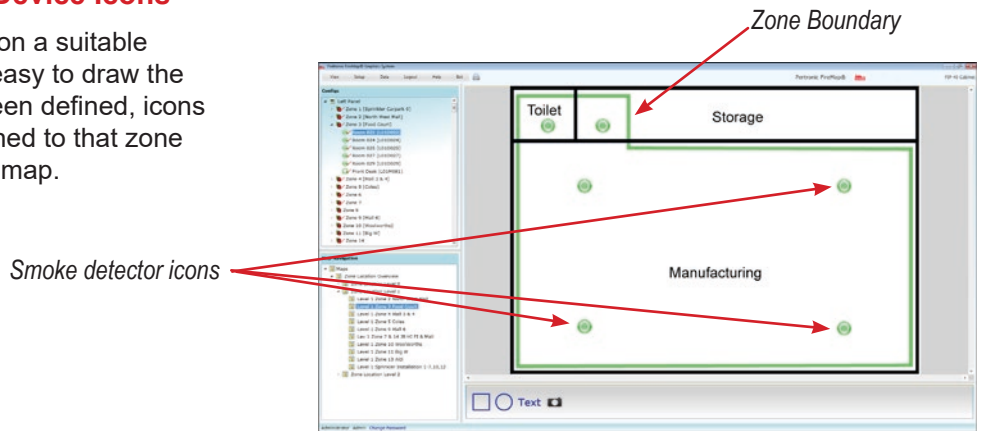
Above: Part of a FireMap floor-plan. This floor-plan is displayed when the fire system detects an alarm in the store (arrowed, top left), and includes a warning message for incident managers and fire-fighters.

Zone Boundaries and Annotation

FireMap maps or floor-plans are based on bitmap images (bmp, jpg, or png). The images may be derived from architect's or engineer's CAD drawings, photographs, or any drawing or illustration application. User-friendly tools in FireMap allow the basic images to be adapted for FireMap.

Zone Boundaries & Fire System Device Icons

Each detection zone should be shown on a suitable map. FireMap's drawing tools make it easy to draw the zone boundaries. After the zone has been defined, icons representing fire system devices assigned to that zone may be dragged and dropped onto the map.

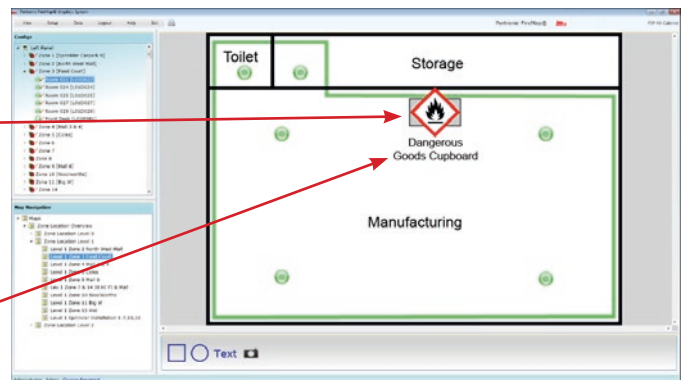


Graphic and Text Annotation

The following image shows graphic and text annotations identifying the location of a dangerous goods cupboard.

Graphic Annotation: Dangerous goods cupboard outline and symbol

Text Annotation: Label for dangerous goods cupboard



Toggle Action Buttons and Custom Icons

FireMap administrators are able to create custom icons and toggle action buttons. Any device type, including standard and custom devices, can be represented in FireMap by a custom icon.

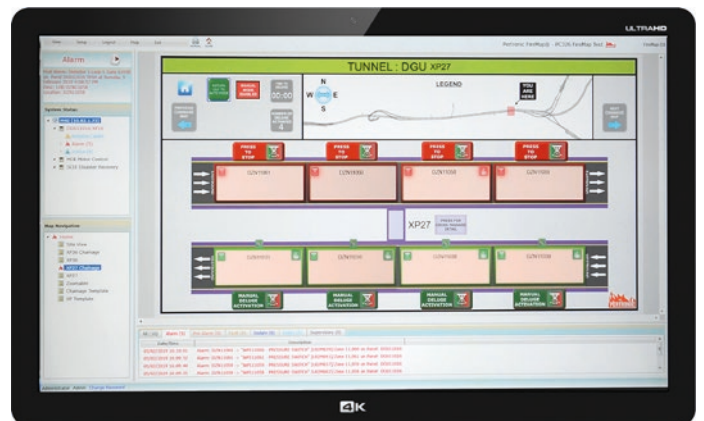
There are no restrictions on the design of toggle action buttons or custom icons. However, toggle action buttons are usable only on F220-Net2 systems.

Each custom icon or toggle action button will have a separate image for each event type.



Above: A pair of images for a toggle action button that provides manual over-ride for an automatic water deluge system. The button has two states, and there is a separate image for each state:

- Green "Ready for activation"
- Red "Activated"



Above: A Pertronic FireMap® display showing eight zones with custom icons configured as water deluge controls. The system operator has chosen to manually activate four of these water deluge zones. FireMap's colour coded display clearly identifies the four active deluge zones with red zone boundaries.

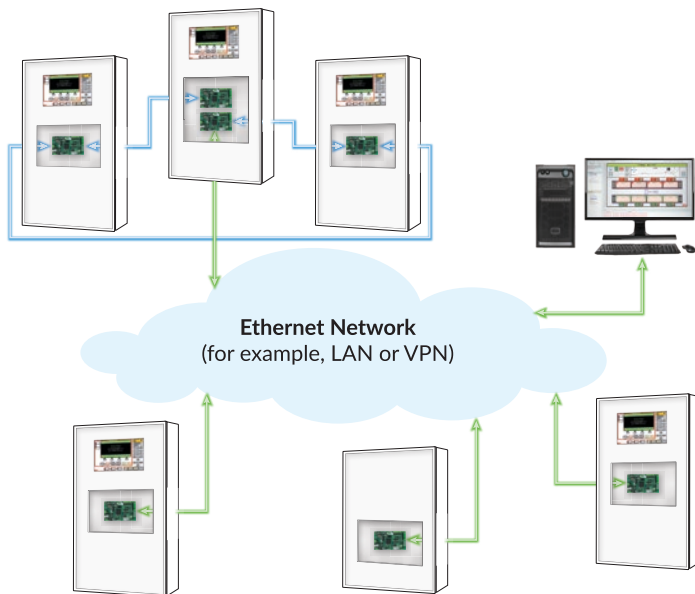
Typical Pertronic FireMap® System Connections

Pertronic F220-Net2 Network



FireMap connects with F220-Net2 Networks via the Pertronic Net2 Network Card (NET2CARD). A single F220-Net2 Network may have multiple FireMap interfaces.

Using FireMap to Monitor Multiple Systems



A single FireMap installation is capable of monitoring multiple fire alarm systems. In addition to multiple Pertronic F220 systems, the FireMap system may include other Pertronic analogue addressable panels and networks. The Pertronic Ethernet Gateway (FMEGATE) enables FireMap to monitor non-Pertronic systems and other equipment.

Specifications

User Classes		Administrator, Engineer, Operator, Basic, Guest
Map Format	File Type	bmp, jpg, png
	Aspect Ratio	2:1
	Min. Resolution	4000 x 2000 pixels
	Max. Resolution	8000 x 4000 pixels
Annotation Graphics		bmp, gif, jpg, png
Toggle Action Buttons		bmp, gif, jpg, png
Custom Icons		bmp, gif, jpg, png
Log Capacity	Application Log	500,000 events
	History Log	500,000 events
	Error Log	500,000 events
Log Export Format		csv

Event & Status Colour Code

Event/Status	Colour
Off-Line	Grey & Black
Alarm	Red
Pre-Alarm	Orange
Fault	Yellow
Disable/Isolate	Dark Blue
Supervisory	Purple
Active	Light Blue
Normal	Green

Minimum System Requirements (Client & Server)

Processor	3.0 GHz processor
RAM	4 gigabytes
Monitor	1920 x 1080 pixels
Operating System	Windows 7 Professional 64-bit, or later
Printer	Colour
Network	Microsoft TCP

Ordering Information

Product Code	Description
FIREMAP	FireMap Graphics Software Licence
FIREMAP-PAGER	Messaging Interface for FireMap Graphics System
NET2CARD	F220 High Capacity Net2 Network Card
FMEGATE	Ethernet Gateway

NOTE: Pertronic Industries Limited strongly discourages the control of fire system functions over the Internet. When FireMap is configured to control fire system functions, engineers and installers must ensure that the Ethernet connection between FireMap workstation and the associated fire systems is adequately secured against unauthorised access.

This information must not be treated as partial or complete instructions for the design, construction, installation, commissioning, or maintenance of fire detection, fire alarm, or building evacuation systems. Fire and evacuation systems must be designed and installed by properly qualified persons, in accordance with all applicable regulatory requirements.

Unless explicitly stated otherwise, this document provides typical specifications and nominal dimensions. Actual product performance and dimensions may vary.

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