



MIRION
TECHNOLOGIES

Vital[®] Supervision

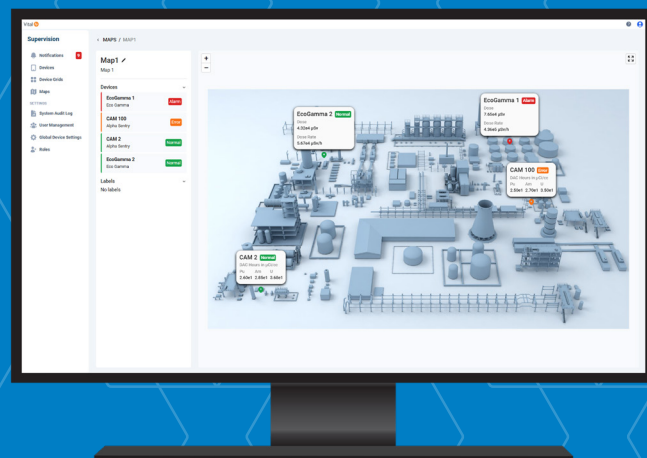
Centralized, Simplified Supervisory Software for Radiological Instrumentation

Reshape radiological instrumentation monitoring with comprehensive supervisory software from Mirion Technologies. Vital Supervision, part of the Vital Platform, simplifies radiological instrument data collection and visualization for safe, real-time decision-making — from one central tool.

A comprehensive supervisory software application, Vital Supervision enhances monitoring and management of radiological instrumentation.

All your Vital Instruments, One Vital Platform

Vital Supervision is the first application built on Mirion's Vital Platform, a connected digital ecosystem designed to simplify data aggregation and expert review. By directly integrating with a wide range of instruments, Vital Supervision provides a unified view of radiological data, breaking down information silos and empowering teams to work more effectively.



FEATURES

- ✓ **Direct Device Integration:** Connects with Mirion instruments to aggregate data in real-time
- ✓ **Warning Thresholds:** Customizable alert levels for key instruments
- ✓ **Centralized Monitoring:** A single interface for monitoring many instruments
- ✓ **Real-time Notifications:** Immediate alerts for instrument alarms, alerts, or faults
- ✓ **Device Management:** Detailed views of instrument data, such as individual channel readings and alarm states
- ✓ **Maps Feature:** Graphical maps display instrument locations and data
- ✓ **Data History:** Historical instrument data storage for review and analysis

ONE-TIME DEVICE SETUP, ONGOING SITE VISIBILITY

Managing instruments across a site can be challenging. Vital Supervision is designed with a robust communication engine that can scale with your site needs.

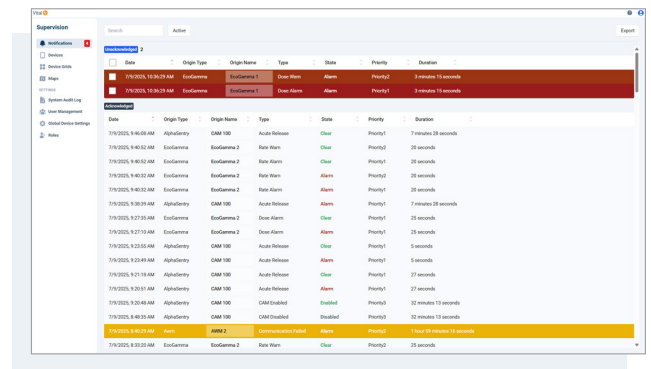
Communication to each instrument is tailored to an instrument's protocols – capturing all its analysis data, recording its state of health, and handling fault conditions such as communication loss.

This mission critical supervisory system allows instruments to be added, modified, disabled, or removed from a live system without affecting operations with other instruments. In addition, Vital Supervision is designed for fast, low-cost deployment by providing the recommended default communication parameters for each instrument. Quickly stand up temporary systems, or even a large site, in minutes rather than days or weeks of complex configuration.

 Notifications

Drive immediate action and informed decision making through clear visualization in the Notifications feature.

- **Visualize Events Clearly:** Instantly see alarms, alerts and faults.
- **Act Fast:** Identify the source, priority and duration of each event.
- **Stay Informed:** Authorized users can acknowledge events and access full details anytime from the dashboard.

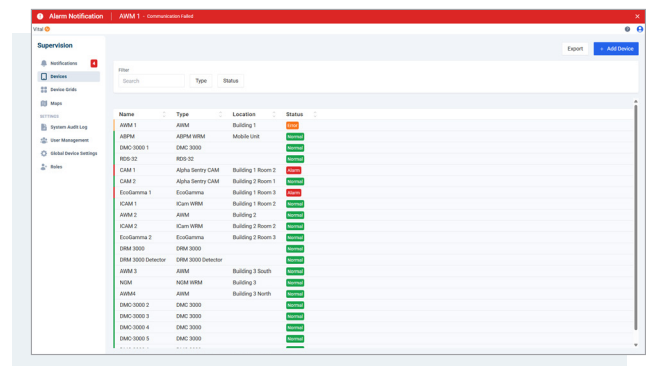


View and acknowledge alarm notifications

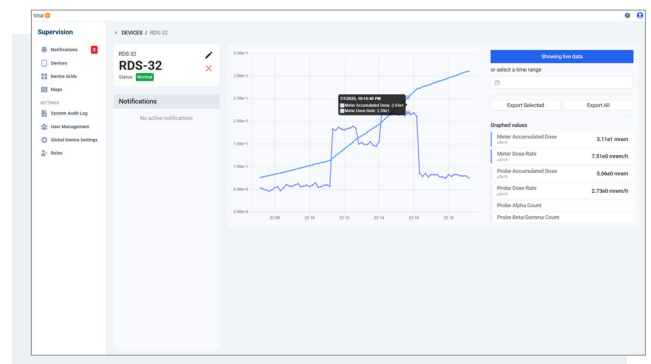
Devices

The Devices feature provides easy access to detailed views of instruments within the network. Key capabilities include:

- **Inspect Alarming Devices:** Access device-specific data from any screen to understand and react to events.
- **Review Devices and Access Controls:** View individual instrument channel readings, alarm states, and measurement data tailored to each instrument.
- **Interact with Devices:** Perform actions such as acknowledging or clearing alarms, changing alarm setpoints, advancing filters, or performing calibration checks based on instrument capabilities.
- **Analyze Data and Optimize:** Use interactive time-series plots to view measurement data and alarm setpoints. Export data for customized analysis, and display spectra for spectroscopic instruments.



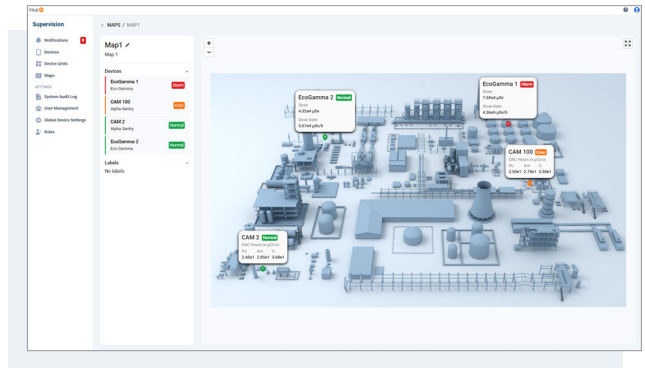
Device list screen with status (above); device detail screen (below)





An intuitive Maps feature offers a comprehensive, interactive way to monitor and manage site instruments, enhancing visibility and control.

- **Sitewide Visibility:** Monitor instrument status and location across the site(s).
- **Interactive Maps:** Navigate buildings, floors, and rooms with custom site and floor maps.
- **Live Insights:** View real-time readings and alarm status directly on the map.
- **Quick Access:** Click on any instrument to jump to detailed data and controls.
- **Flexible Setup:** Add multiple maps with graphical overlays to match your site layout.



Customizable site maps show your facility layout with device locations and status

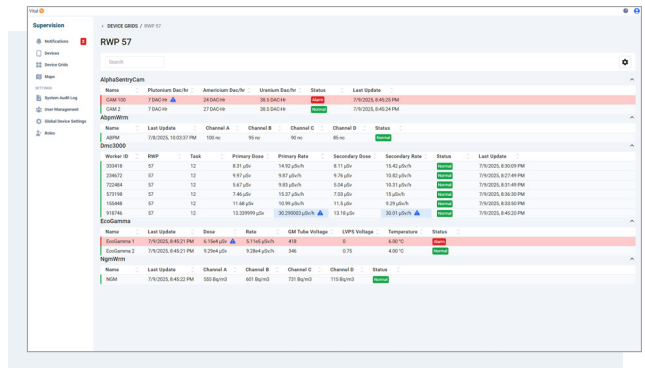


The Device Grids feature allows users to monitor specific instruments based on customizable criteria, including instrument type, location, or Radiation Work Permit (RWP) and task information. This is particularly useful in telemetry situations, such as a nuclear power plant outage.

Key Capabilities:

- **Customizable Monitoring:** Create multiple device grids to monitor specific instruments based on various criteria.
- **Dynamic Filtering:** Automatically include new devices that meet defined filter criteria, ensuring all relevant instruments are monitored in real-time.
- **Warning Thresholds:** Set customizable alert levels for key instruments to notify users of rising dose rates, enabling proactive responses.

With the Device Grids feature, users can enhance monitoring capabilities, improve response times, and maintain a safe working environment.



Device Grid Thresholds and Statuses



The Vital Platform, Powered by Mirion

In real-time response situations and daily operations, you need solutions that inform smart, quick action. The Vital Platform is a connected digital ecosystem that simplifies data aggregation and expert review. It addresses the challenges of managing radiological instruments across large sites, breaking down information silos and surfacing critical insights.

Learn more: mirion.com/vital



OPERATIONAL, SECURITY, AND SCALABILITY EXCELLENCE

The Vital Platform is designed to simplify set-up and scaling for evolving operational needs while providing a robust, secure foundation.

SECURE AND SCALABLE

- **User Authentication and Authorization:** Role-based security dictates access to information and operational control, ensuring user permissions align with their responsibilities.
- **Audit Logging:** Comprehensive logging supports compliance with safety regulations, troubleshooting, and system security.
- **Cybersecurity:** Robust data security is maintained through adherence to guidance from NEI 08-09, NIST SP 800-53, and 10 CFR 73.54.

OPERATIONAL BENEFITS

The Vital Platform offers numerous benefits, including:

- Enhanced operational efficiency through real-time visibility and reduced staff entry into radiological areas
- Improved safety through prompt responses to events
- Regulatory compliance through accurate reporting and historical data access
- Simplified administration through centralized access management
- Scalability to integrate with up to thousands of instruments
- Robust cybersecurity measures

By leveraging the Vital Platform, organizations can streamline operations, improve safety, and maintain regulatory compliance while benefiting from a secure and scalable solution.

SPECIFICATIONS

VITAL SUPERVISION APPLICATION - CORE SUPPORTED FEATURES AND BENEFITS

Application Features	Practical Benefits
Collect and store instrument data	Easily access instrument data for real-time responsiveness and optimized operations.
Real-time instrument monitoring	Access live data – including radiological alarms, events, and state of health (SoH) – to optimize daily operations and make an informed response.
Instrument oversight: <ul style="list-style-type: none">• Track maintenance and calibration per site requirements and regulations.• Monitor and track status and state of health.	Maintain and optimize operations: <ul style="list-style-type: none">• Maintain quality control, ensure compliance, and simplify auditing.• Detect equipment anomalies early and take action to reduce unplanned maintenance and instrument downtime.• Efficiently manage routine maintenance and keep critical instruments operational and ready.
Remote instrument operation	Streamline processes and reduce staff entry into radiological areas to perform instrument operations, including configuration changes, alarm setpoint changes or triggers.
Supported Instruments	<ul style="list-style-type: none">• AlphaSentry CAM with ASM2000• DMC 3000™ Personal Dosimeter• DRM-3000™ & EcoGamma™-g Radiation Monitoring Systems• iCAM™ Alpha/Beta Particulate Monitor• ABPM Particulate Monitors• NGM Noble Gas Monitors• RDS-32™ & RDS-31™ Survey Meter• Additional instruments will be added regularly with new software releases

PRODUCT SPECIFICATIONS

Desktop Installation	Windows 11
On-Premise Server	Windows Server 2022
Database	SQL Server 2022
Browser Support	Google Chrome, Microsoft Edge

PLATFORM SECURITY

- Secure development based on NEI 08-09, NIST SP 800-53,82, and 10 CFR 73.54 guidance
- Generation of Software Bill of Materials (SBOM) in standard formats to aid easy/consistent security evaluations
- All modules are code signed using x.509 certificate provisioned by Mirion's Public Key Infrastructure (PKI)
- Automated vulnerability scans on code to identify weaknesses and prevent exploitation

The Mirion Product Security Inquiry Response Team (PSIRT) is an available resource to help customers with security-related inquiries for our software products.

ORDERING INFORMATION

Product Code	Short Description	Long Description
VS Base System Licenses		
VS-BASE-DT	Vital Supervision Desktop System	Includes Desktop license and 1 Client license (all runs on 1 PC). Must be combined with instrument communication (CM) Licenses.
VS-BASE-C5	Vital Supervision Server System, 5 Clients	Vital Supervision Server System, 5 Clients Includes Server license. Must be combined with instrument co
VS-BASE-CU	Vital Supervision Server System, Unlimited Clients	Vital Supervision Server System, Unlimited Clients Includes Server license. Must be combined with instrument communication (CM) Licenses.
Telemetry Communication (CM) Licenses		
VS-CM-TEL-XX	Vital Supervision Comm License for up to XX Telemetry Devices	Vital Supervision Comm License for up to XX Telemetry Devices Includes instrument communication, data historian, and device detail screens for any instrument transmitting via WRM2/WRM3 telemetry protocols using wired or wireless connection.
Instrument Communication (CM) Licenses		
VS-CM-INS-XX	Vital Supervision Comm License for up to XX Instruments	Vital Supervision Comm License for up to XX Instruments Supports instruments via direct serial or Ethernet connection. For all instruments other than Spectroscopy and Telemetry. Includes instrument communication, data historian, device detail screens, and any remote two-way command & control functions for instruments that support it.



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