

INNOVATION AT WORK

Connecting Visionaries in Radiation Safety, Science and Industry

Conrad Orlando Resort, FL – July 28th – August 1st



Vital® Supervision Live Monitoring and Management of Radiological Data

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Mirion Connect | Annual Users' Conference 2025 Orlando, Florida



Agenda

- Challenges of Radiation Monitoring
- The Vital Platform
- Vital Supervision Introduction
- Vital Supervision Demonstration
- Q&A



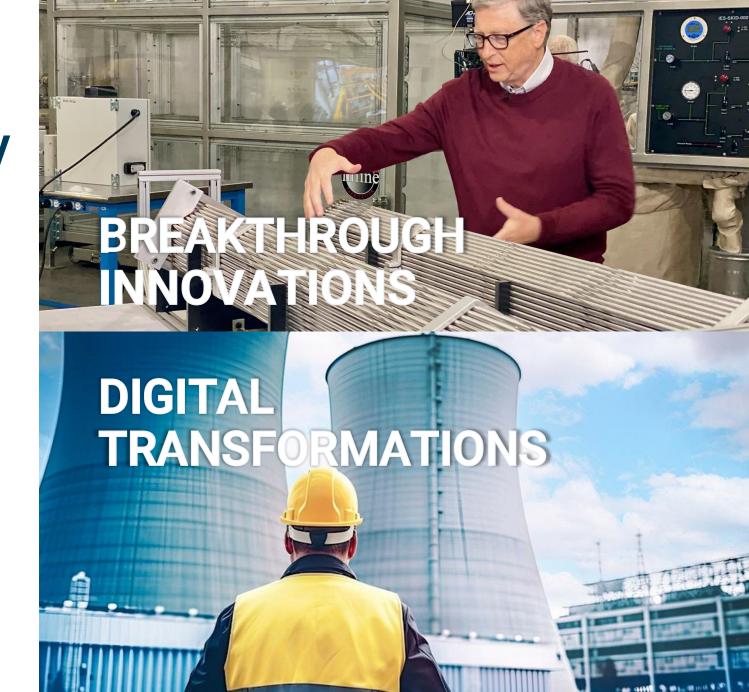


The Challenges of Radiation Monitoring





The Nuclear Industry is pursuing big ideas and facing new challenges





Challenges of Radiation Monitoring

- Multiple types of instruments and software are required for various tasks
- Different vendors & software solutions lead to a large IT footprint, fragmented support and upgrades

 Inefficiencies in day-to-day operations and overall management



Air Monitoring Continuous Spectroscopy / Lab Remote Job Coverage via **Telemetry** Contamination Data **Monitoring** Silos **Effluent Monitoring Process** Dose **Monitoring** Management Annual Users' Conference

The Data Dilemma

- Separate applications create data silos, lacking a single source of truth
- No comprehensive view of operational data
- Optimizing workflows and improving operational efficiency is challenging

Fragmented Systems = Missed Opportunities

Data consolidation is key to gaining a competitive advantage and driving growth.



Easy access to data is key for critical decision-making.

Real-time response situations and daily operations need solutions that inform smart, quick action.



INTRODUCING...



The Vital Platform

A connected digital ecosystem which consolidates radiological data to improve safety and optimize business operation

Provides a single, unified view of data, instruments and advanced analytics to drive integrated operations

Intended to integrate seamlessly and scale with ease

Supports workflow optimization and software footprint consolidation goals





Data Sources

Instrument Data (Live)



Dose & Access Control Data



Gamma Spec Sample Data, QA/QC

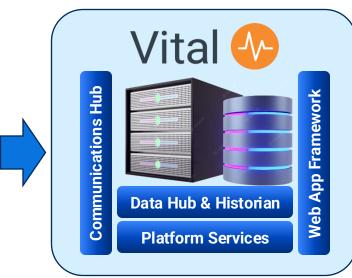


Alpha Spec Data



Alpha/Beta Data









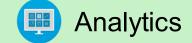


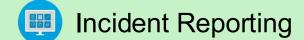


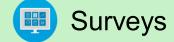
















Why Now?

Mirion is a Nuclear Instrumentation Leader

 The largest & broadest selection of radiological instrumentation for the Nuclear industry

Industry Expertise

We have strong industry knowledge due to close working relationships with our customers

Software and Data Analysis Capabilities

Strong software presence and expertise, along with advanced analytics capabilities using AI
algorithms such as convolutional neural networks, deep learning models, vector machines

Global Service Offerings

We have global offerings for maintenance, configuration, training, repair, and more





Vital Supervision

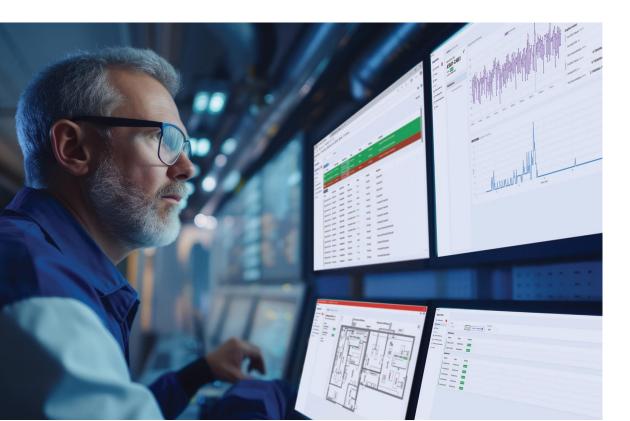




Vital Supervision

Centralized, Simplified Supervisory Software for Radiological Instrumentation

- One comprehensive supervisory software within the Vital Platform
- Simplified data collection and oversight for safe, real-time decision-making
- Long term historical storage for post event analysis, regulatory reporting, in-depth analysis



Applications:

- Dosimetry and HP monitoring live remote job coverage to protect workers & reduce exposure using wireless transmission of data (telemetry)
- Process Monitoring key radiological conditions for plant operation
- Effluent & Environmental Monitoring track environmental releases and conditions around a site
- **Instrument Maintenance** ensuring instruments are operational to keep workers safe

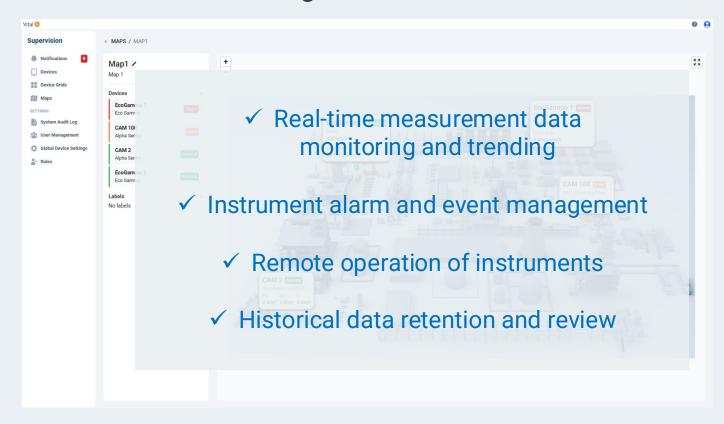
INTRODUCING



POWERED BY MIRION

Vital Supervision

Centralized, Simplified Supervisory Software for Radiological Instrumentation







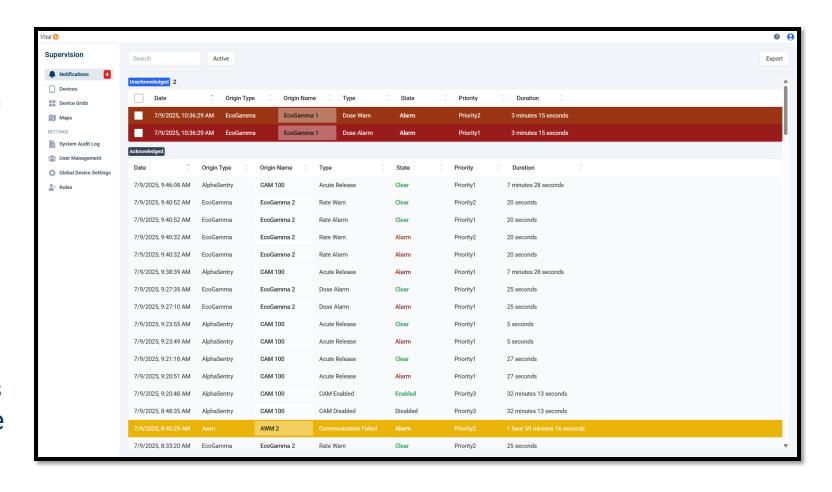
Notifications.

Notifications | Drive Informed Action & Decisions

Visualize events clearly: Instantly see alarms, alerts, and faults via Vital Supervision

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.







Devices | Manage In-Network Instruments

Monitor Alarms: Identify active devices and alarm states

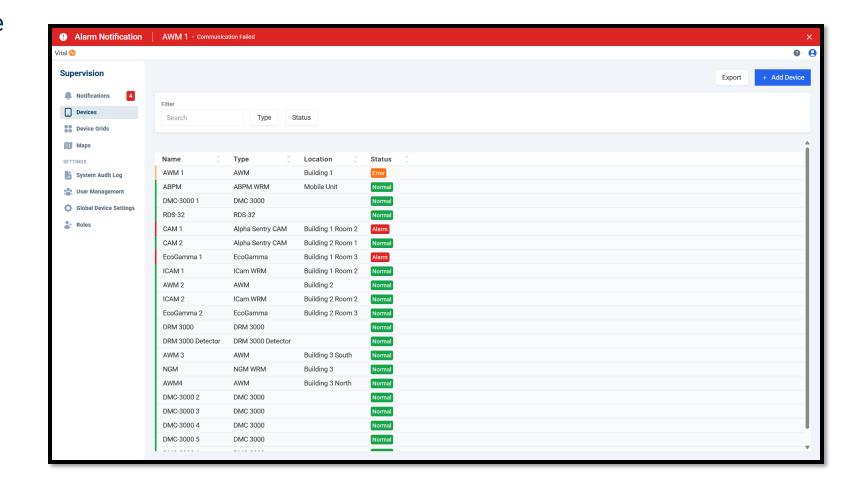
Review Instrument Data:

Channel readings, measurements, and control access

Interact with Devices:

Acknowledge alarms, adjust setpoints, apply filters, run calibrations

Analyze & Optimize: Explore time-series plots, export data, and view spectra





Maps | Gain Real-Time Visibility & Navigation

Sitewide Visibility: Monitor instrument status and location across your facility

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





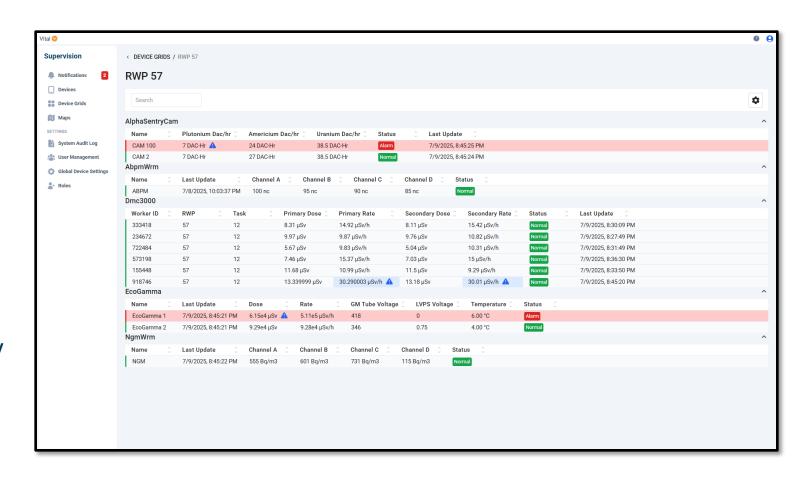


Device Grids | Oversee Dynamic Telemetry Work

Customizable Monitoring: Create multiple data grids, monitor specific instruments based on various criteria.

Live 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.



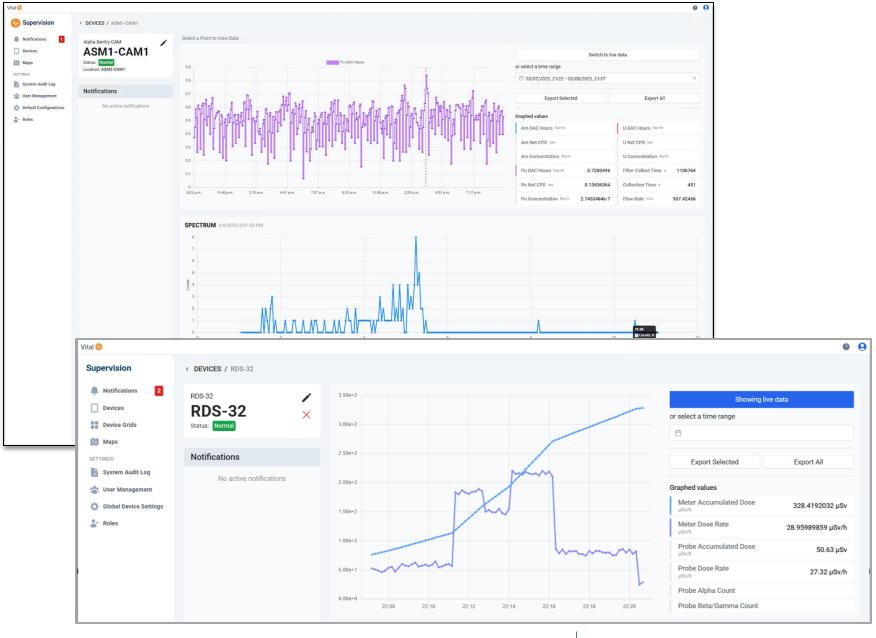




Quickly access a detailed view of any instrument within the network.

- Review live details: measurement data is plotted to show trends with customizable plot
- Historical data: review historical data for any instrument by setting a date range.
- Export: displayed data can be exported for reports and further analysis





Product Demo





Mirion Technologies Vital® Survey and Feedback

Survey & Feedback

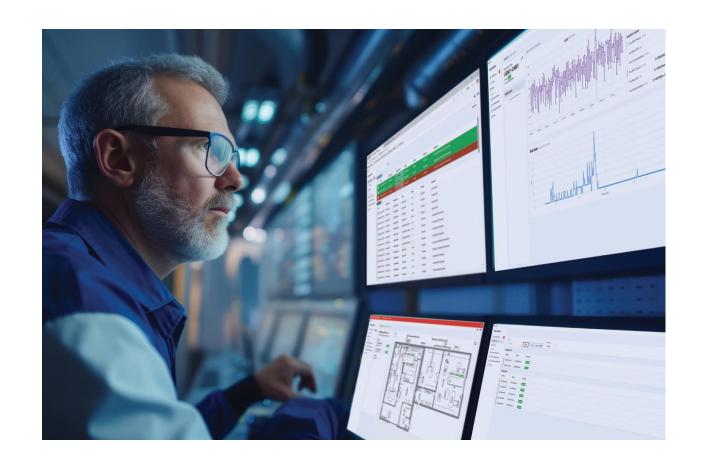




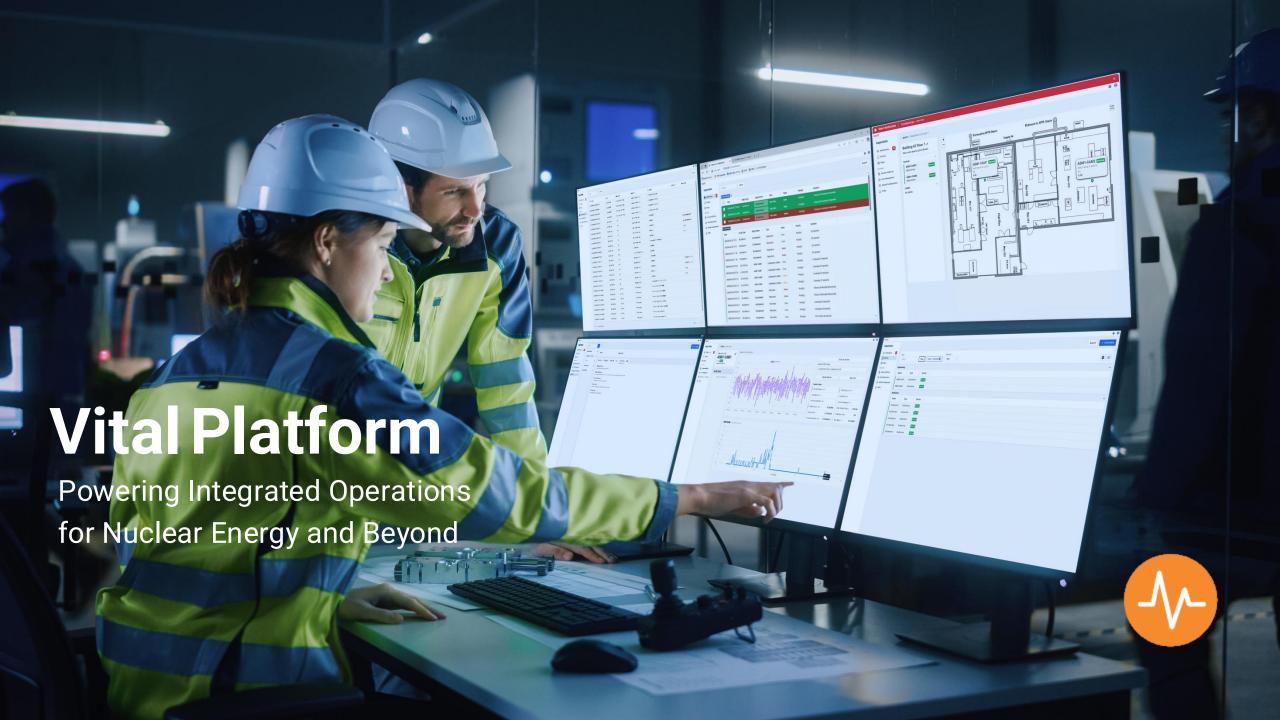
Q&A

• Questions?

• Urgent Needs & Challenges?







Thank you



