



Annual Users' Conference

**ADVANCING RADIATION SAFETY.
EMPOWERING PROGRESS.**

M Resort, Henderson, NV | June 15 – June 18



MIRION
TECHNOLOGIES

*Advancing Radiation Safety.
Empowering Progress.*

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Vital® Telemetry Operation and Configuration Management

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Mirion Connect | Annual Users' Conference 2026

Henderson, NV

**Scan QR code to log your
attendance for today's
(Thursday, June 18th)
breakout session**



Section Title



Vital Supervision



Centralized supervisory software for radiological instrumentation

- *Real-time measurement data for monitoring and trending*
- *Instrument alarm and event management*
- *Remote operation of instruments*
- *Historical data retention and review*

Applications

- **Dosimetry & HP monitoring** – *remote live job coverage via telemetry*
- **Process monitoring** – *key plant radiological conditions*
- **Effluent & environmental** – *releases and site conditions*
- **Instrument maintenance** – *uptime to keep workers safe*

Group Introduction

Your Name, Site & Role

- *Supervision software needs*
- *Radiological instrumentation you want/need to monitor & for what use (safety, process monitoring, effluent monitoring, etc.)*

Your experience with Supervision Software

- *Are there other supervision software your site uses you know of or have used?*
 - *Good & important features/capabilities*
 - *Issues & lacking features*
- *Why are you learning about Vital Supervision*
 - *Replacement of an existing system?*
 - *New plant so starting from scratch?*

System Features



- **Role-Based Authentication & Authorization**

- *Quickly at new users who need to make use of the information*



- **Audit Log:**

- *Full System & User Traceability*



- **Simplified Device Configuration**

- *Fast, scalable deployment & configuration*
- *Scale up - customers can easily add new instruments to live system*



- **Modern Cybersecurity & Quality Compliance**

- *Security guided by NEI 08-09, NIST 800-53,82 (SBOM, PKI, etc. Encrypted clients)*
- *NQA-1-2019 and NQA-1-2022*

Vital Eco System

Data Sources

Live Instrument Data

Area monitoring, dosimetry, effluents, process monitoring



Dose & Access Control



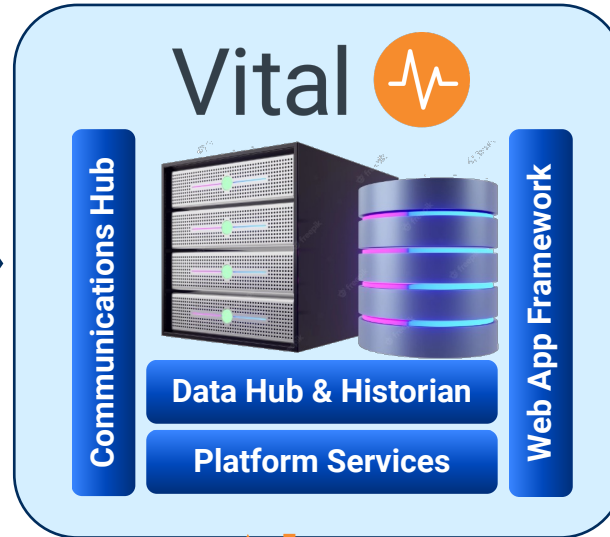
Gamma Spec Sample Data, QA/QC



Alpha Spec Data



Alpha/Beta Data



Vital Applications



Supervision



Dose Management



Asset Management



Instrument QA/QC



ALARA Planning



Training & Simulation



Analytics



Incident Reporting



Surveys



RWP Reporting

Plant Data
(flow, releases, etc.)



Radiological
Data & Alarm Info

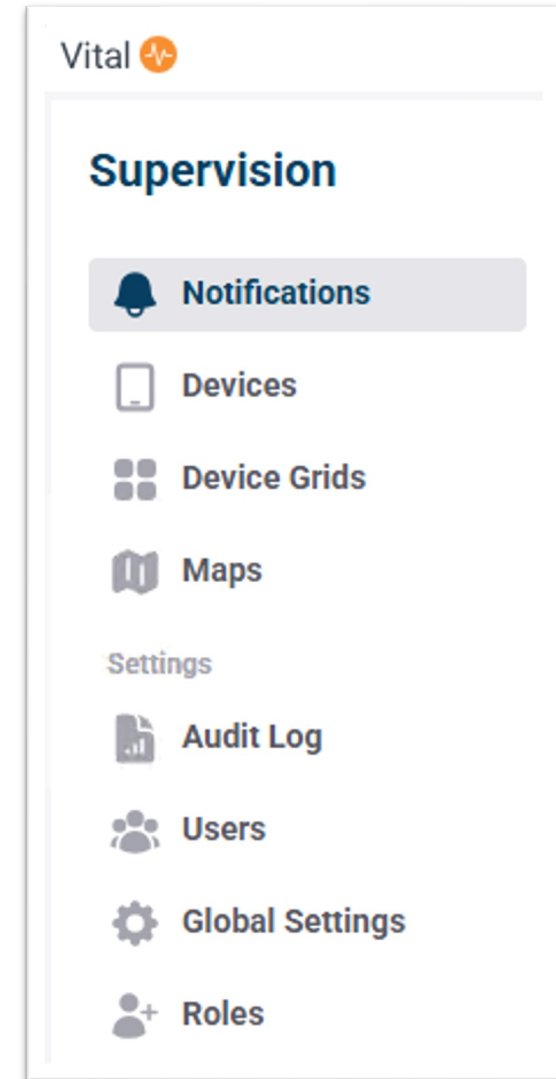


Plant
Computer

Navigation

Main Menu – simple navigation to all features

- *Main supervision tasks at top*
 - *Notifications – Alarm & Event Management*
 - *Devices – Instrument Management*
 - *Device Grids – Situational Monitoring*
 - *Maps – Monitoring per Physical Location*
- *Administrative tasks at the bottom for those who have access*
 - *Audit Log – Track system changes*
 - *Users – User maintenance & assigning roles*
 - *Global Settings – System level settings*
 - *Roles – User Authorizations*

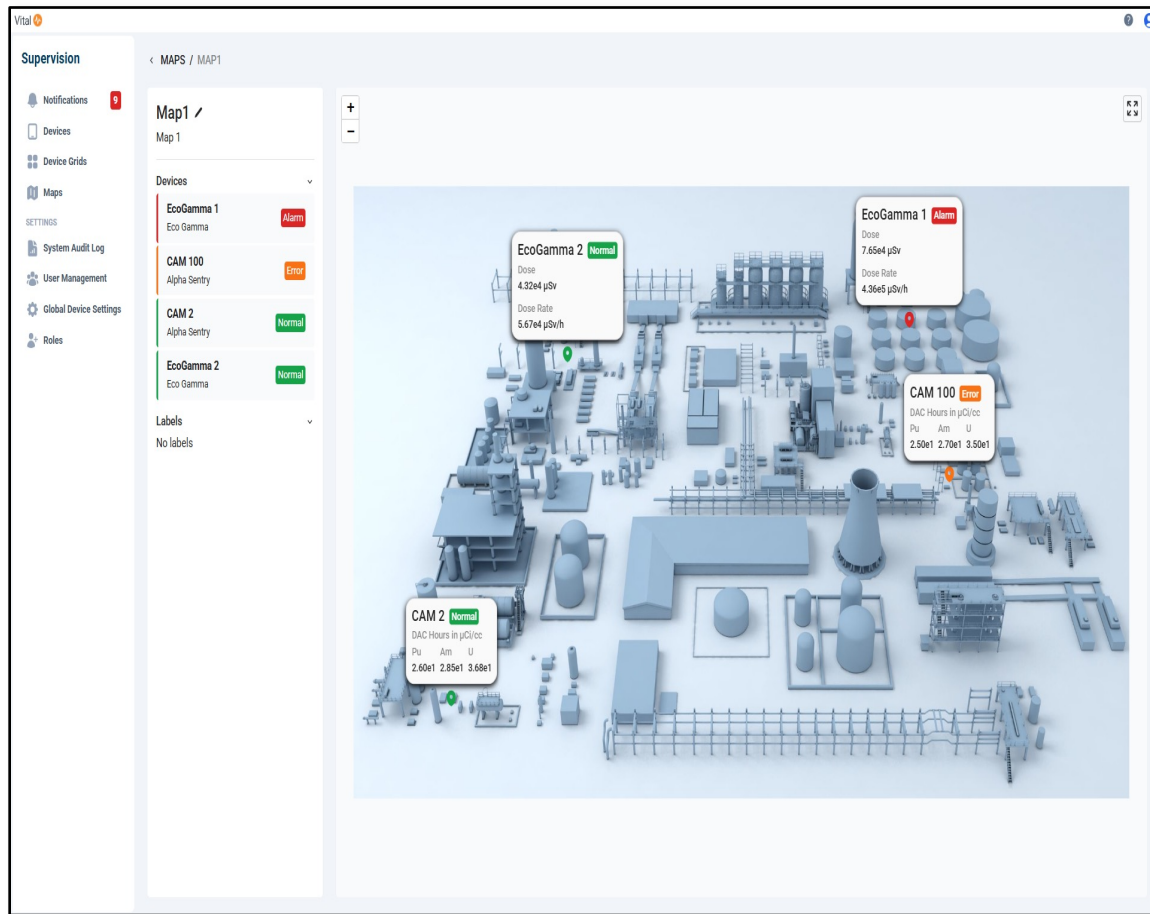


Devices

- *List all configured devices in the system*
- *Add new devices to be monitored*
- *Export the list of instruments*
- *Provides status of all devices being monitored*
- *Allows easy navigation to device details page of any instrument*
- *Export a list of instruments*

Name	Type	Location	Status
EcoGamma-01	EcoGamma	Perimeter NW	Normal
ASM1-CAM1	Alpha Sentry CAM	Building G2 Glovebox Room	Normal
EcoGamma-02	EcoGamma	Perimeter NE	Normal
AWM-1	AWM	Aux Building	Normal
201338	RDS-32		Normal
EcoGamma-03	EcoGamma	Perimeter SW	Normal
EcoGamma-04	EcoGamma	Perimeter SE	Normal
EcoGamma-05	EcoGamma	Tank Farm	Disabled

Maps



Location Awareness

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

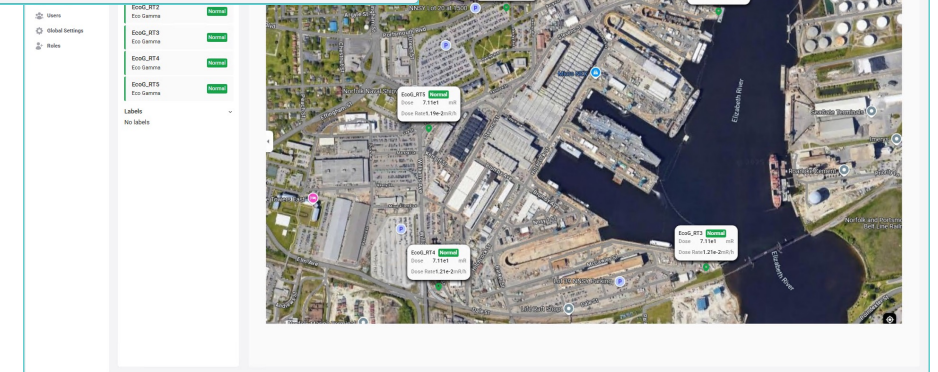
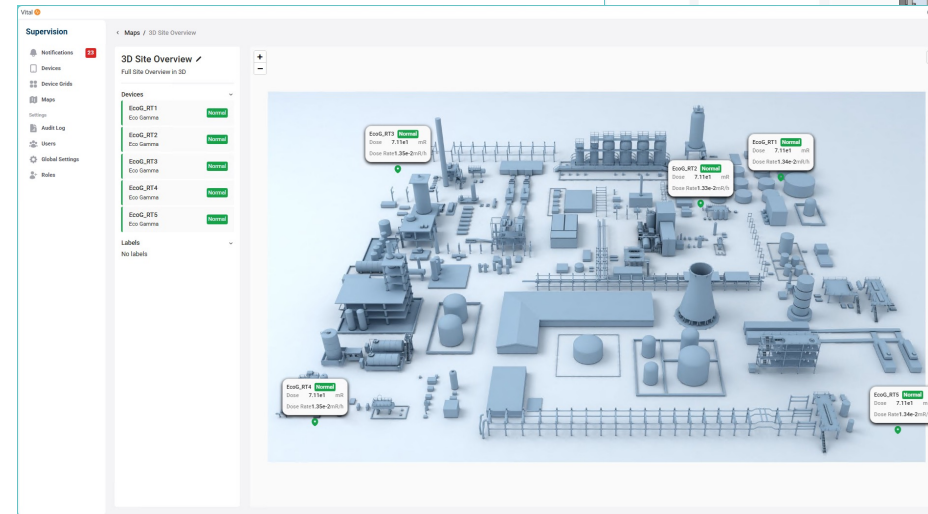
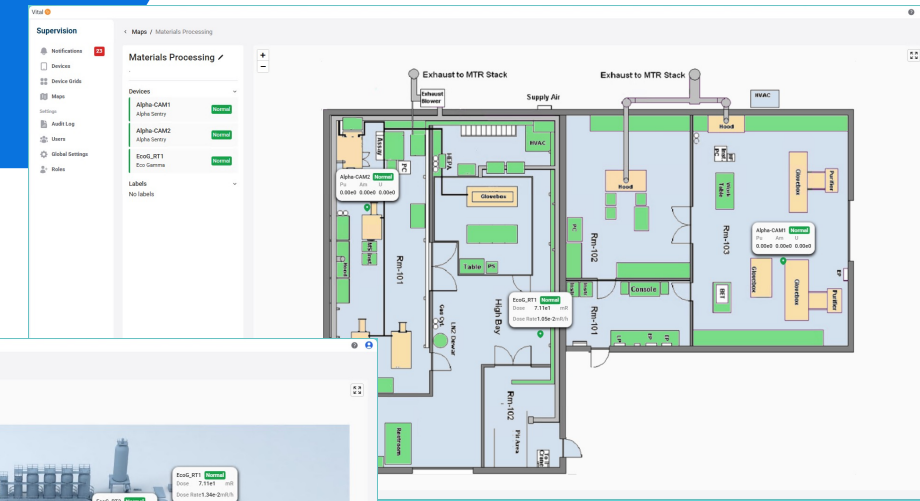
Maps | Examples

■ Site Areal View (drawing or satellite)

- Perimeter monitors
- Specific Area (e.g. tank farms)

■ Building Views

- Buildings (full building)
- Floors
- Rooms



Demo

Device Grids

Supervision < DEVICE GRIDS / RWP 57

RWP 57

Search

AlphaSentryCam

Name	Plutonium Dac/hr	Americium Dac/hr	Uranium Dac/hr	Status	Last Update
CAM 100	7 DAC-Hr ▲	24 DAC-Hr	38.5 DAC-Hr	Alarm	7/9/2025, 8:45:25 PM
CAM 2	7 DAC-Hr	27 DAC-Hr	38.5 DAC-Hr	Normal	7/9/2025, 8:45:24 PM

AbpmWrm

Name	Last Update	Channel A	Channel B	Channel C	Channel D	Status
ABPM	7/8/2025, 10:03:37 PM	100 nc	95 nc	90 nc	85 nc	Normal

Dmc3000

Worker ID	RWP	Task	Primary Dose	Primary Rate	Secondary Dose	Secondary Rate	Status	Last Update
333418	57	12	8.31 µSv	14.92 µSv/h	8.11 µSv	15.42 µSv/h	Normal	7/9/2025, 8:30:09 PM
234672	57	12	9.97 µSv	9.87 µSv/h	9.76 µSv	10.82 µSv/h	Normal	7/9/2025, 8:27:49 PM
722484	57	12	5.67 µSv	9.83 µSv/h	5.04 µSv	10.31 µSv/h	Normal	7/9/2025, 8:31:49 PM
573198	57	12	7.46 µSv	15.37 µSv/h	7.03 µSv	15 µSv/h	Normal	7/9/2025, 8:36:30 PM
155448	57	12	11.68 µSv	10.99 µSv/h	11.5 µSv	9.29 µSv/h	Normal	7/9/2025, 8:33:50 PM
918746	57	12	13.339999 µSv	30.290003 µSv/h ▲	13.18 µSv	30.01 µSv/h ▲	Normal	7/9/2025, 8:45:20 PM

EcoGamma

Name	Last Update	Dose	Rate	GM Tube Voltage	LVPS Voltage	Temperature	Status
EcoGamma 1	7/9/2025, 8:45:21 PM	6.15e4 µSv ▲	5.11e5 µSv/h	418	0	6.00 °C	Alarm
EcoGamma 2	7/9/2025, 8:45:21 PM	9.29e4 µSv	9.28e4 µSv/h	346	0.75	4.00 °C	Normal

NgmWrm

Name	Last Update	Channel A	Channel B	Channel C	Channel D	Status
NGM	7/9/2025, 8:45:22 PM	555 Bq/m3	601 Bq/m3	731 Bq/m3	115 Bq/m3	Normal

Situational Dashboards

- **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.

Device Grids | Examples

RWP View

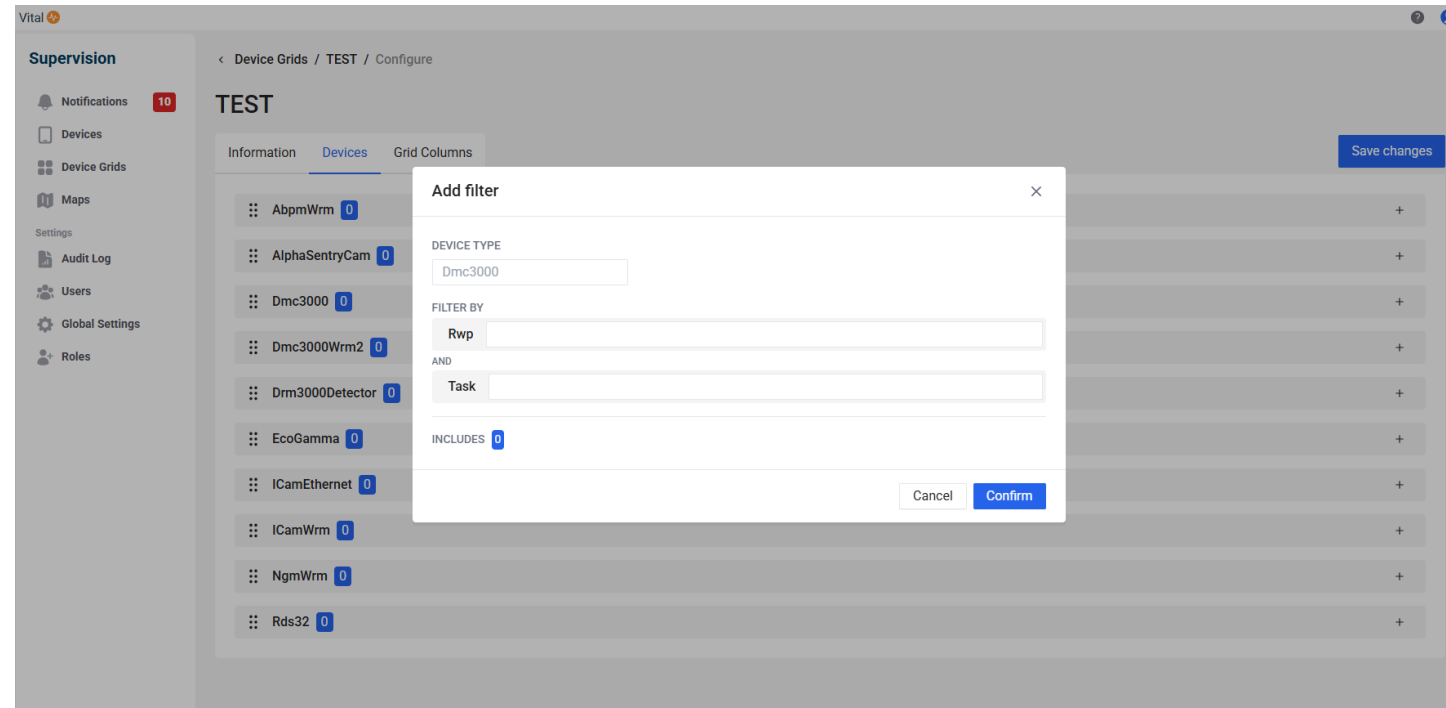
- Search on RWP/Task for dosimeters
- Add any handheld instruments being used by the team
- Add fixed instruments in the area where work is being done

Location View

- Perimeter monitors
- Area monitors in a specific building/room

Process View

- RMS monitors for effluents or process control
- Stack monitors for a specific systems



Notifications

Supervision

Search [] Active [] Export []

Unacknowledged 2

Date	Origin Type	Origin Name	Type	State	Priority	Duration
7/9/2025, 10:36:29 AM	EcoGamma	EcoGamma 1	Dose Warn	Alarm	Priority2	3 minutes 15 seconds
7/9/2025, 10:36:29 AM	EcoGamma	EcoGamma 1	Dose Alarm	Alarm	Priority1	3 minutes 15 seconds

Acknowledged

Date	Origin Type	Origin Name	Type	State	Priority	Duration
7/9/2025, 9:46:08 AM	AlphaSentry	CAM 100	Acute Release	Clear	Priority1	7 minutes 28 seconds
7/9/2025, 9:40:52 AM	EcoGamma	EcoGamma 2	Rate Warn	Clear	Priority2	20 seconds
7/9/2025, 9:40:52 AM	EcoGamma	EcoGamma 2	Rate Alarm	Clear	Priority1	20 seconds
7/9/2025, 9:40:32 AM	EcoGamma	EcoGamma 2	Rate Warn	Alarm	Priority2	20 seconds
7/9/2025, 9:40:32 AM	EcoGamma	EcoGamma 2	Rate Alarm	Alarm	Priority1	20 seconds
7/9/2025, 9:38:39 AM	AlphaSentry	CAM 100	Acute Release	Alarm	Priority1	7 minutes 28 seconds
7/9/2025, 9:27:35 AM	EcoGamma	EcoGamma 2	Dose Alarm	Clear	Priority1	25 seconds
7/9/2025, 9:27:10 AM	EcoGamma	EcoGamma 2	Dose Alarm	Alarm	Priority1	25 seconds
7/9/2025, 9:23:55 AM	AlphaSentry	CAM 100	Acute Release	Clear	Priority1	5 seconds
7/9/2025, 9:23:49 AM	AlphaSentry	CAM 100	Acute Release	Alarm	Priority1	5 seconds
7/9/2025, 9:21:18 AM	AlphaSentry	CAM 100	Acute Release	Clear	Priority1	27 seconds
7/9/2025, 9:20:51 AM	AlphaSentry	CAM 100	Acute Release	Alarm	Priority1	27 seconds
7/9/2025, 9:20:48 AM	AlphaSentry	CAM 100	CAM Enabled	Enabled	Priority3	32 minutes 13 seconds
7/9/2025, 8:48:35 AM	AlphaSentry	CAM 100	CAM Disabled	Disabled	Priority3	32 minutes 13 seconds
7/9/2025, 8:40:29 AM	Awm	AWM 2	Communication Failed	Alarm	Priority2	1 hour 59 minutes 16 seconds
7/9/2025, 8:33:20 AM	EcoGamma	EcoGamma 2	Rate Warn	Clear	Priority2	25 seconds

Review Alarms and Faults

- **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 this dashboard*

Notifications

▪ Active Alarm Filter

- *Focus on new/active alarms*
- *Or see a historical view of alarms*

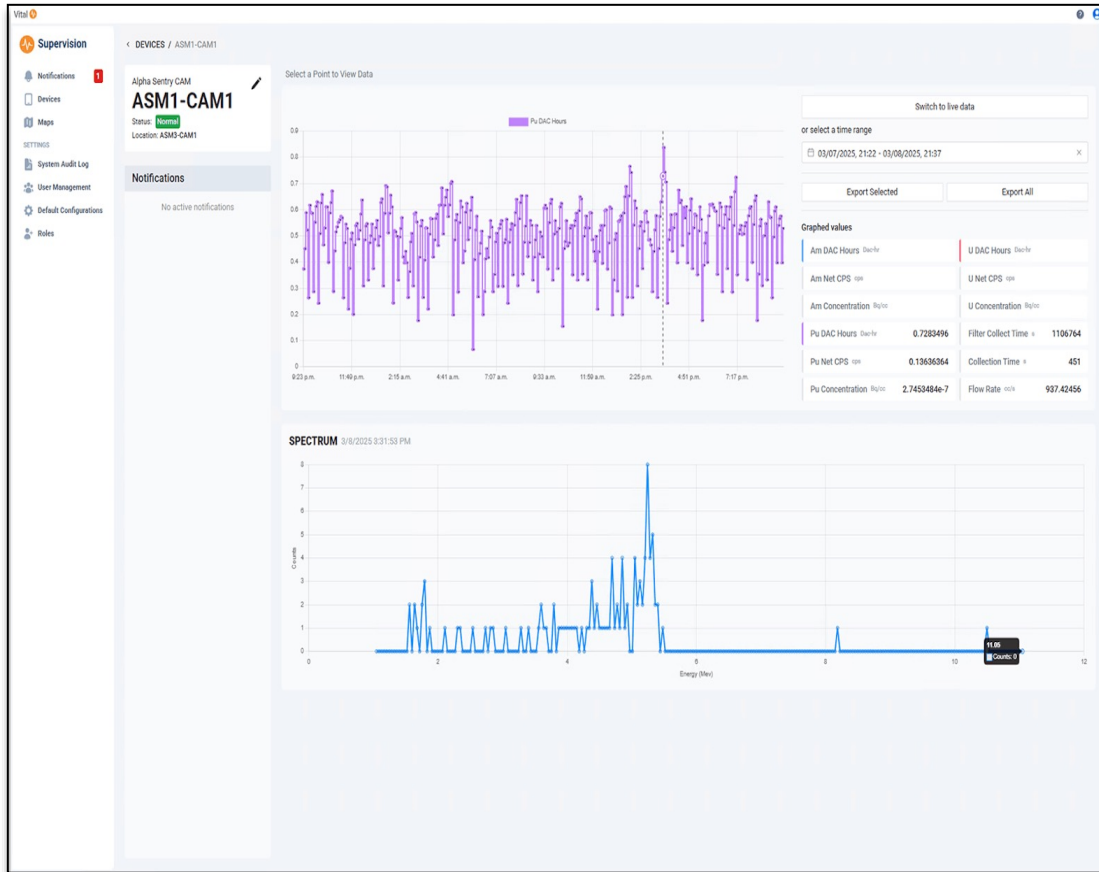
▪ Alarm Acknowledgements

- *When to acknowledge*
- *Where to acknowledge*
 - *Notifications screen*
 - *Device Detail screen*

▪ Review of Notification Data

- *Priority 1, 2, 3*
- *Radiological Alarms*
- *Faults*
- *Communication Timeouts*
- *Start Date/Time*
- *Duration*

Device Detail



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*
- **Notifications:** *shows active alarms/events*
- **Additional Instrument Information:** *other helpful details about the instrument*

Global Settings – Device Configuration

- *Global settings is used to make system changes for specific devices*
 - *Meter and probe threshold rates*
 - *Units (Sv, Rem, etc.)*

Vital

Supervision

- Notifications 10
- Devices
- Device Grids
- Maps
- Settings
 - Audit Log
 - Users
 - Global Settings**
 - Roles

Global Settings

Manage your Supervision Instance and device configurations

Access control system

Device configurations

Device configurations

Set global configurations per device type

Defaults Thresholds Units

RDS-32

Meter Dose Threshold 100 %

Meter Rate Threshold 100 %

Probe Dose Threshold 100 %

Probe Rate Threshold 100 %

Probe Alpha Count Threshold 100 %

Probe Beta/Gamma Count Threshold 100 %

Cancel Save changes

Global Settings

Manage your Supervision Instance and device configurations

Access control system

Device configurations

Set global configurations per device type

Defaults Thresholds Units

RDS-32

Meter Accumulated Dose

Sv mSv μSv rem mrem μrem

Meter Dose Rate

Sv/h mSv/h μSv/h rem/h mrem/h μrem/h

Probe Accumulated Dose

Sv mSv μSv rem mrem μrem

Probe Dose Rate

Sv/h mSv/h μSv/h rem/h mrem/h μrem/h

Cancel Save changes

Global Settings – Access Control System

- *Connect to an access control system for DMC-3000 G2 configuration at login.*

- *HIS-20*
- *Dosiserv*
- *Sentinel*

Global Settings

Manage your Supervision instance and device configurations

Access control system

Device configurations

Source

HIS-20

HIS-20 ✓

Sentinel

Dosiserv

5

Database type

seconds

minutes

Database name

Server

User name

admin

Password

.....

Enabled

☐

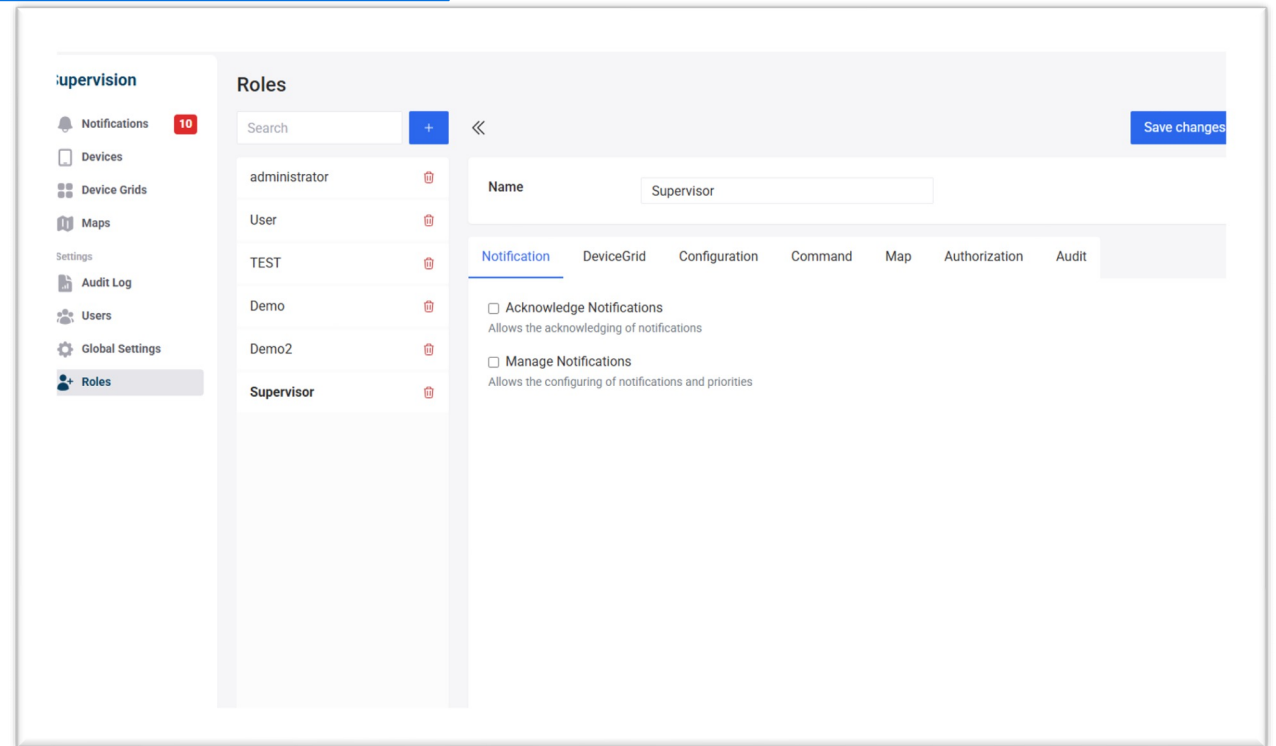
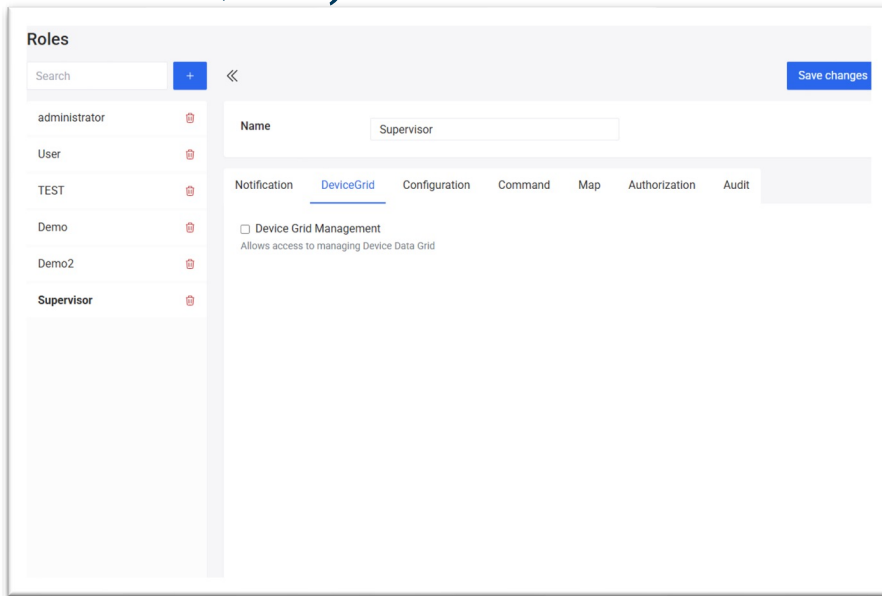
Save changes

Test connection

Cancel

Setting up Roles

- Roles is used to configure the rights for specific user groups.
- Multiple roles can be setup for various work groups (Administrator, Supervisor, Technician, etc.)

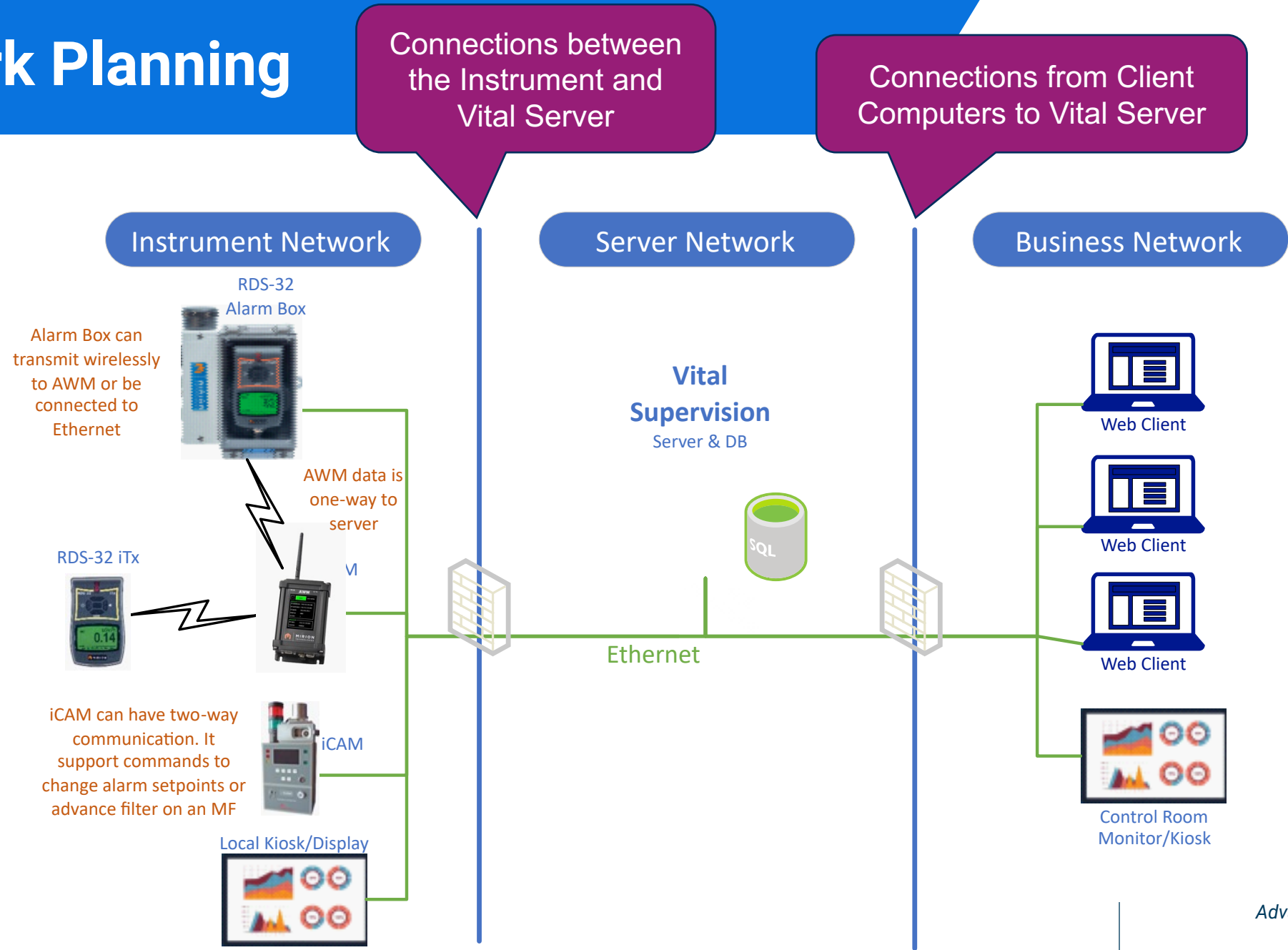


User Management

- *Add individual users with email address and password*
- *Select the Role for the individual based on the rights they should have in the system*

The screenshot displays the 'Add User' form within the Mirion Connect 26 Supervision interface. The left sidebar contains navigation options: Notifications (10), Devices, Device Grids, Maps, Settings, Audit Log, Users, Global Settings, and Roles. The main content area is titled 'Add User' with the subtitle 'User configurations'. The form includes input fields for Email, Password, Confirm Password, First name, and Last name. The Roles dropdown menu is open, showing a list of roles: administrator, User, TEST, Demo, Demo2, and Supervisor.

Network Planning



Mirion's Offerings in Instrumentation

HP / RP

Telemetry/Dosimetry, access control, handheld, C&C, area monitors, Cameras



I&C, RMS & Environmental

CAMs, tritium, Iodine, Flux, area, outdoor, perimeter monitors



Defense/Security

Emergency response, event screening/monitoring, HLS



Spectroscopic & NDA Systems

Stack monitors, in-Situ, CSM, Aegis, Lab Equipment



Questions?



Survey for:

Vital® Telemetry Operation and Configuration Management



*Please take a moment
to fill out a short survey
on this session.*

Thank you

