



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



MC26 – Breakout Session

Dosimetry & Telemetry

BLEUSE Olivier

Dosimetry & Telemetry – Product Line Manager

Mirion Connect | Annual Users' Conference 2025

Orlando, Florida



Dosimetry & Telemetry

Accessories & Applications

Ensure & Monitor the Worker Safety

Dosimetry & Telemetry

*Do you have any
specific question ?*

Dosimetry & Telemetry Product Line :

Legal Dosimeter



Ecosystem

Electronic dosimeter



Ecosystem

Monitoring remotely



Ecosystem

DMC-3000 EcoSystem

**Access Control
Software**



**Dose Management
Software**



DMC-3000 EcoSystem

Access Control
Software



Dose Management
Software



Orion RTLS Location /
Telemetry Software



Web Based Telemetry
Software



Adaptive Wireless
Monitor

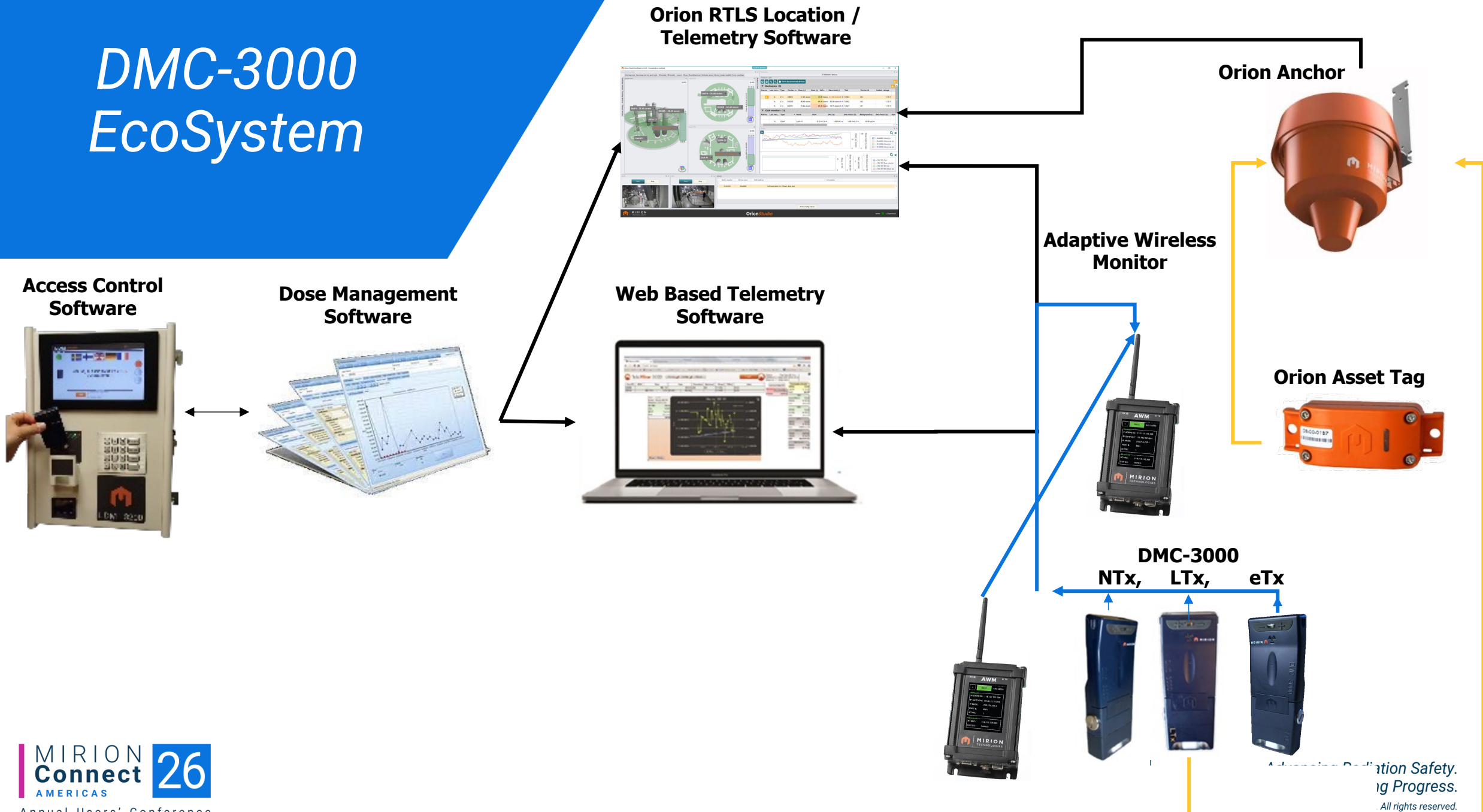


DMC-3000

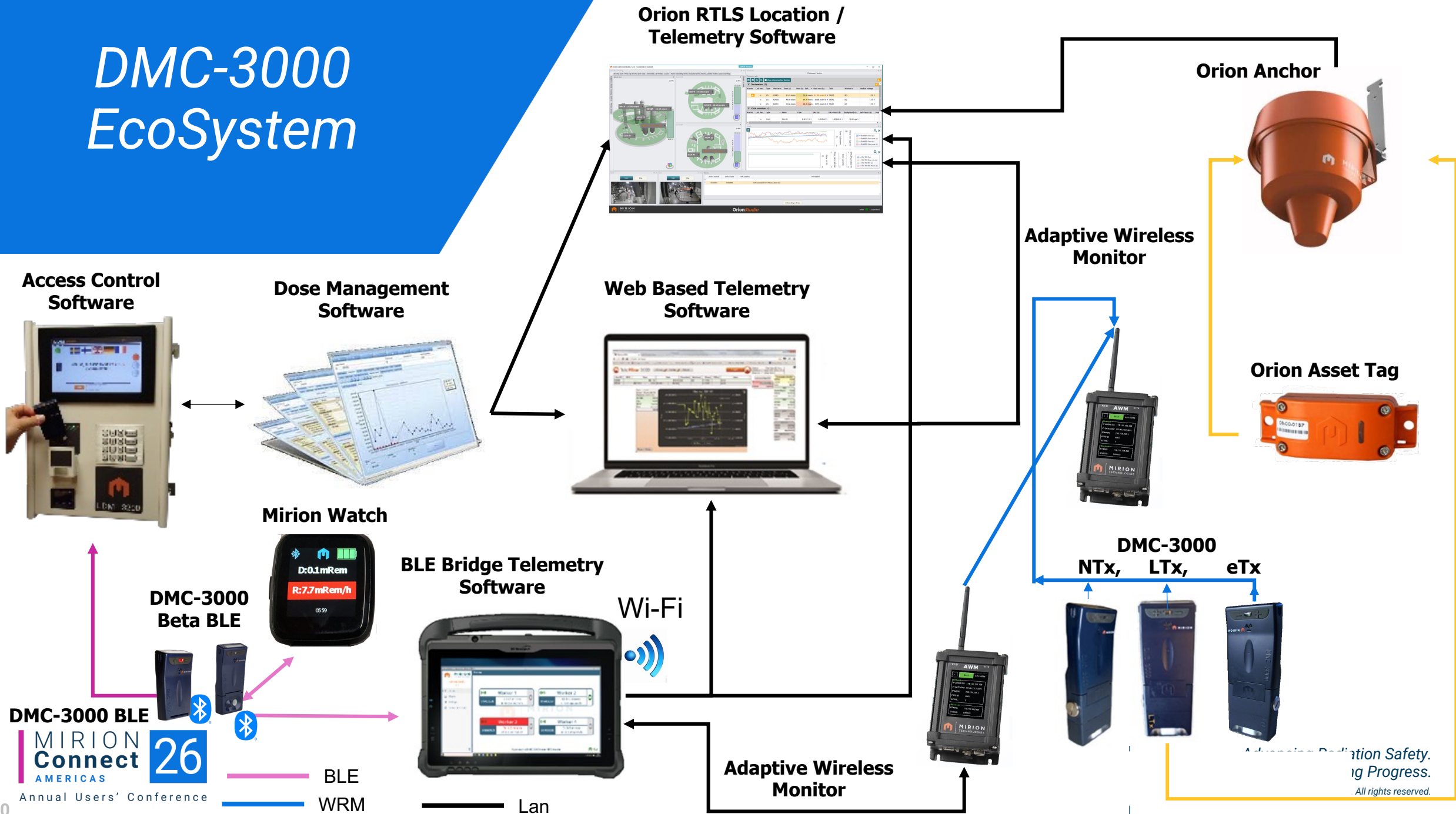
NTx, LTx, eTx



DMC-3000 EcoSystem



DMC-3000 EcoSystem



Agenda

- **The Modular Approach**
 - *G2 Protocol & Upgrade to G3*
 - *DMC 3000 & Modules*
- **Measurement Modules / Telemetry Modules**
- **DMC 3000 Bluetooth & Connected Ecosystem**
- **C&C - Dosimetry Integration**
- **Updates & News on The Dosimetry - Telemetry Line**

Dosimetry

- *DMC 3000 & Modules*
 - *G2/G3 protocol*
 - *How to connect modules*

DMC 3000: G3 vs G2

G3 Protocol
FW: 7.XX



G2 Protocol
FW: 5.XX



* Means G2 Protocol

Why to upgrade to G3 : Additional modules



Neutron Version



Beta Version



Telemetry
Version



Neutron &
Telemetry Version



Location &
Telemetry Version



Bluetooth Version

Why to upgrade to G3 : No False Alarm

- **Native DMC3000 Protocol**

- More features:
 - Enhanced dosimeter **self check**
 - Enhanced secured **communication protocol CRC 32bits**
 - **Additional features** Histogram (dose/dose rate; raw pulse; auto adaptive; etc..)
 - More **display options** (customizable, backlight display)
 - More **options** (calibration factor, configurations, data resolution, data stored, speaker self test, speaker volume option, etc..)

Why to upgrade to G3 : No Fake Alarm

			Dose	Rate
95	13:18:55	Measure	22.2	14.9
94	13:19:50	Measure		
93	13:19:55	Measure	22.6	41.9
91	13:20:11	Measures after rate alarm	23	67.5
90	13:20:12	Measures after rate alarm	23	67.5
89	13:20:13	Measures after rate alarm	23	67.5
88	13:20:14	Measures after rate alarm	23	67.5
87	13:20:15	Measures after rate alarm	23.1	108.6
92	13:20:16	Event	Primary rate alarm	
86	13:20:16	Measures after rate alarm	23.1	108.6
80	13:20:16	Measure		
85	13:20:17	Measures after rate alarm	23.1	108.6
84	13:20:18	Measures after rate alarm	23.1	108.6
83	13:20:19	Measures after rate alarm	23.1	108.6
82	13:20:20	Measures after rate alarm	23.1	108.6
81	13:20:24	Event	Primary rate alarm end	
79	13:20:55	Measure	23.3	21.8
78	13:21:40	Measure		
77	13:21:55	Measure	23.6	24.7

G3 & Sentinel

If you need support with Sentinel, call your sales representative to support your demand of evolution.

We are in discussion to support customer transition to G3 protocol



Sentinel version 1.11 and 1.12; with net controller (LdmNetCtl.dll) driver version 3.29.0

Please contact your PTI Systems Representative if you are unsure of your version or driver.

DMC 3000: How to upgrade to G3



DMC 3000 Tx



DMC 3000 B



DMC 3000 N



DMC 3000 Ntx



DMC 3000 eTx



DMC 3000 LTx



DMC 3000 BLE

Evolution to G3 Protocol (FW: V7.8.8)

Upgrade
Kit Tool

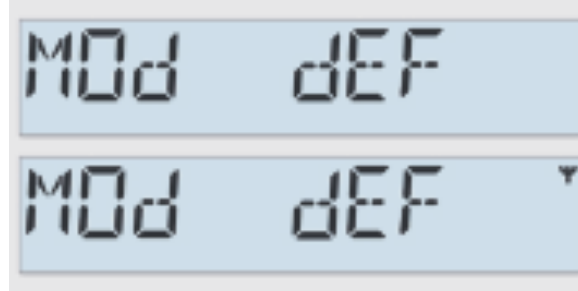


- Self Service
(Weekly rental base – 50 DMC/hour)
- Mirion On-Site Update
- Mirion Factory Return

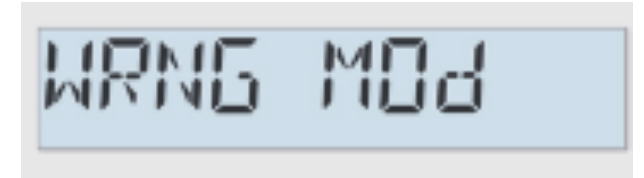
Dosimetry

- *DMC 3000 & Modules*
 - *G2/G3 protocol*
 - *How to connect modules*

DMC 3000: How to add/remove a module

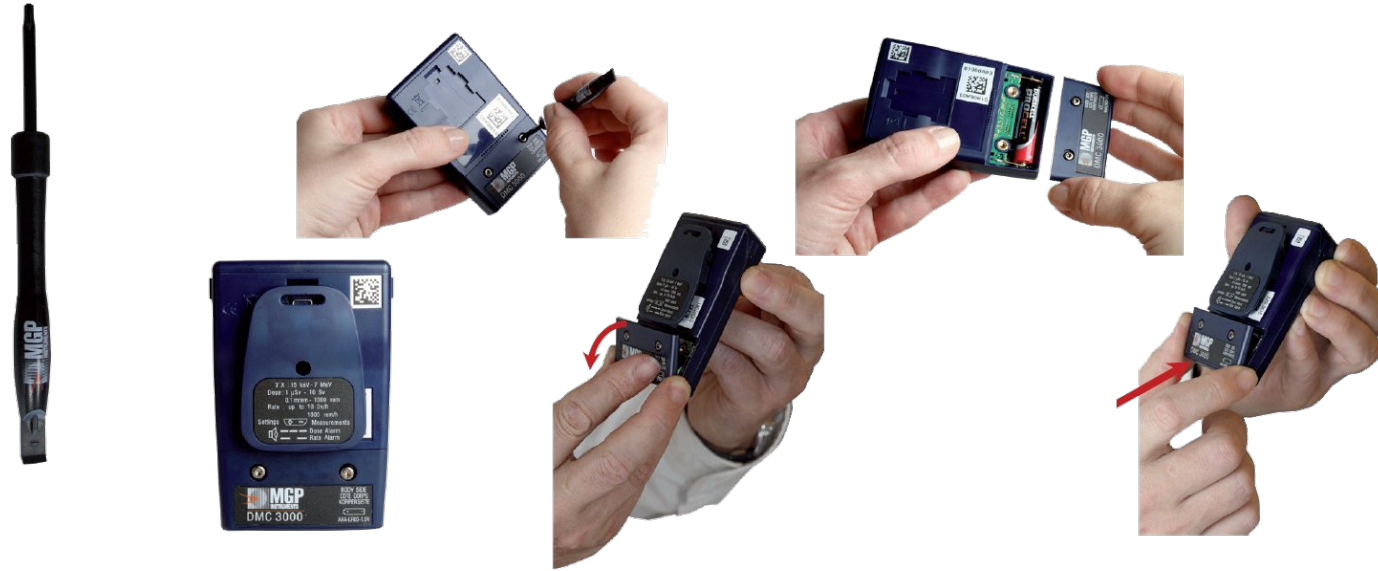


- Faulty/removed Module



- Wrong Module connected

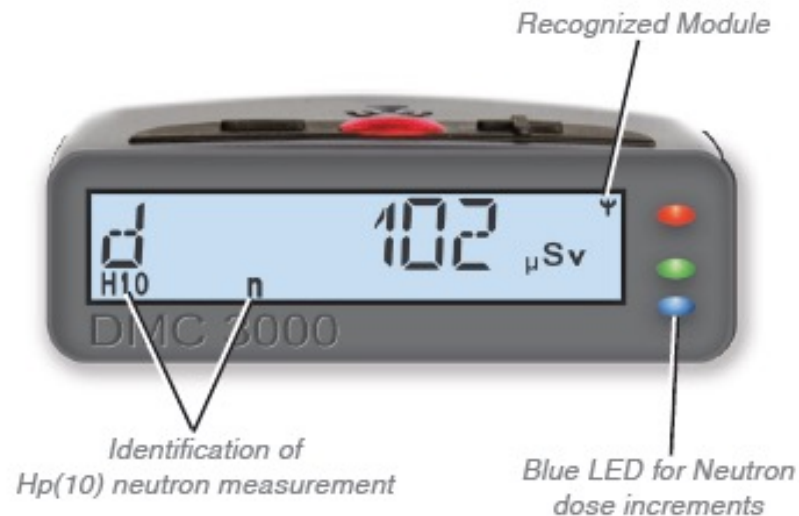
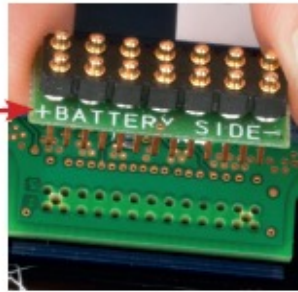
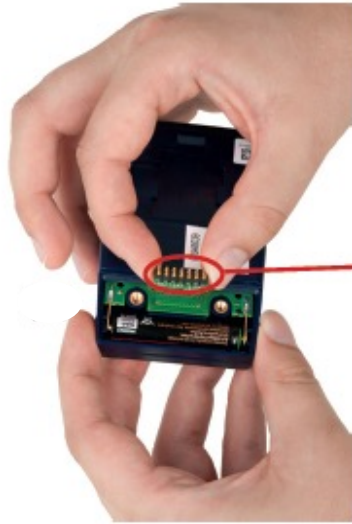
DMC 3000: How to add/remove a module



Connector



DMC 3000: How to add/remove a module



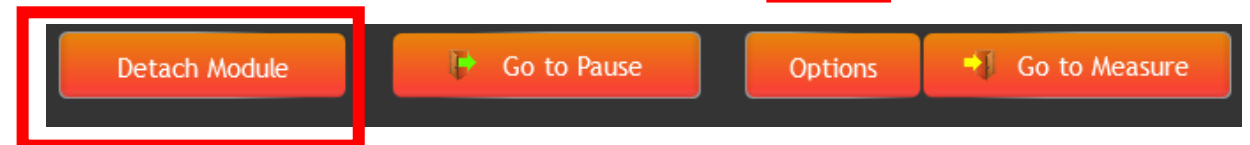
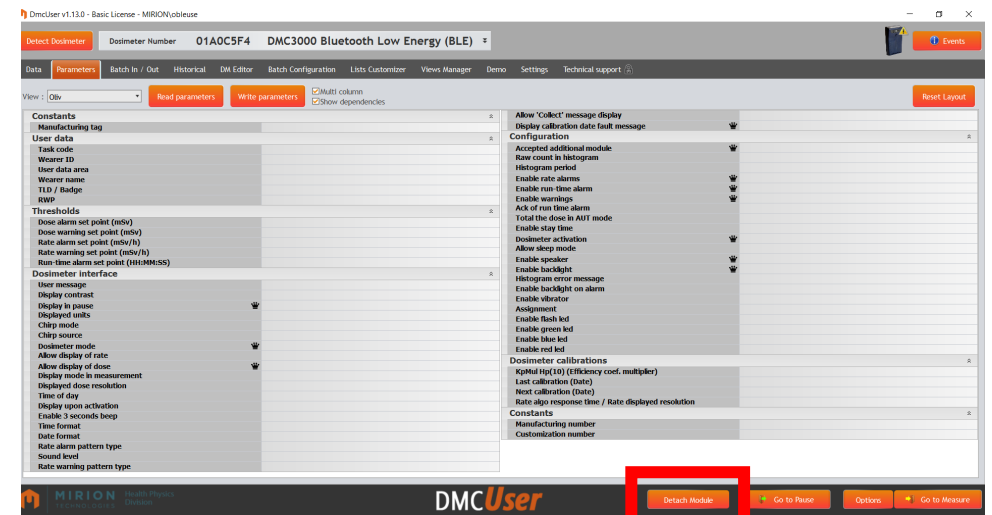
DMC 3000:

How to remove a module and clear the mod Def ?



- Remove /Replace the battery to clear the MOD_DEF

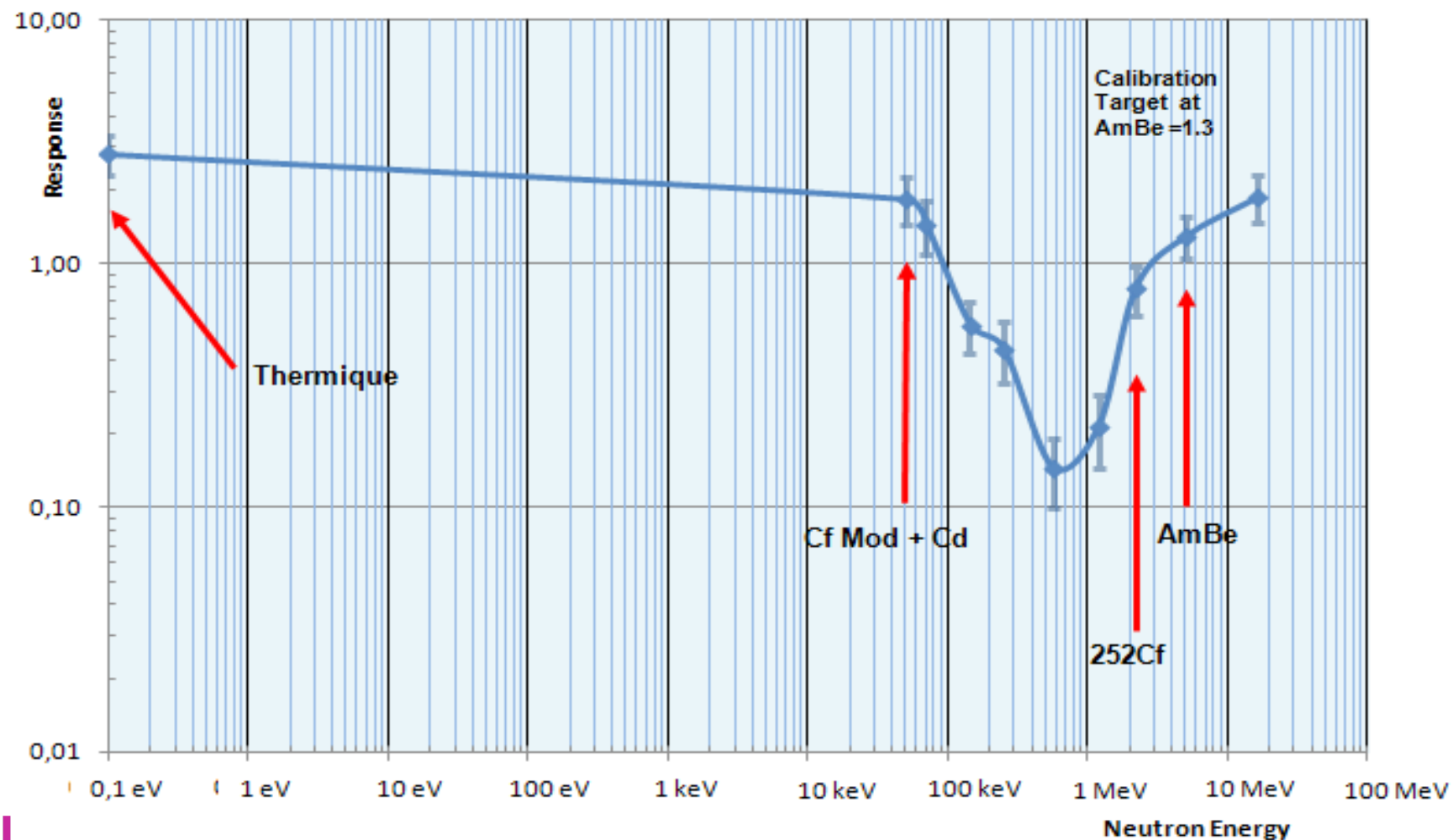
- Or detach the module by DMCUser



Dosimetry

- *DMC 3000 & Modules*
 - *G2/G3 protocol*
 - *How to connect modules*
 - *Neutron response*

DMC 3000 Neutron / NTx module

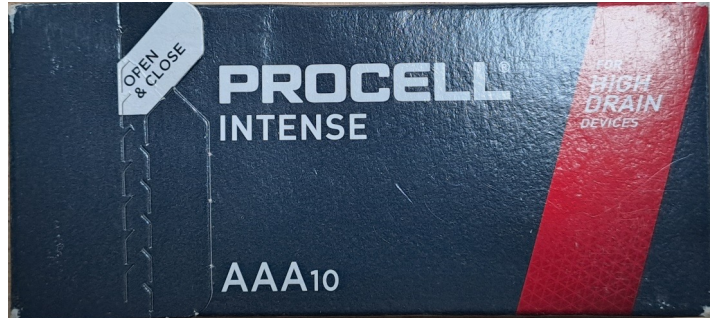


- Use KnMul for calibration factor adjustment
- Use KnTask in addition to focus the response on your energy response spectrum

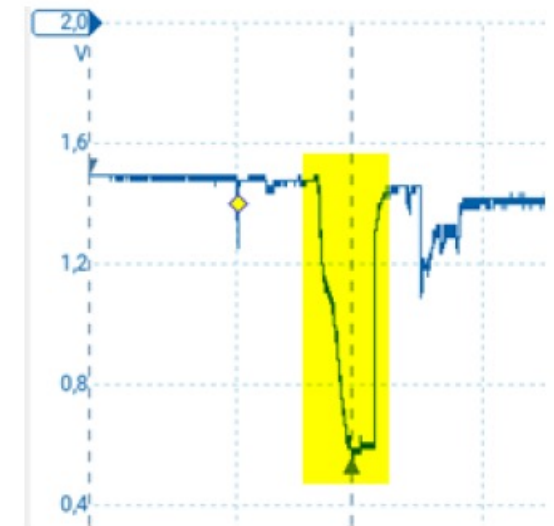
Dosimetry & Telemetry

- *DMC 3000 & Modules*
 - *G2/G3 protocol*
 - *How to connect modules*
 - *Neutron response*
 - *Battery Autonomy / Cap*

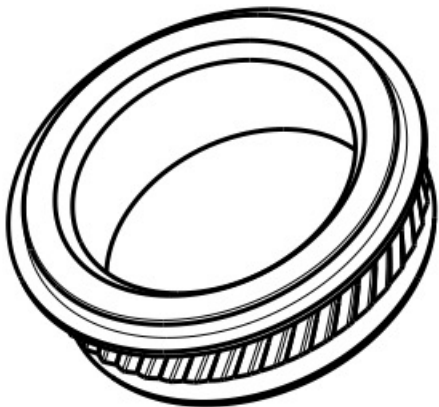
DMC 3000 & Telemetry module : Battery autonomy



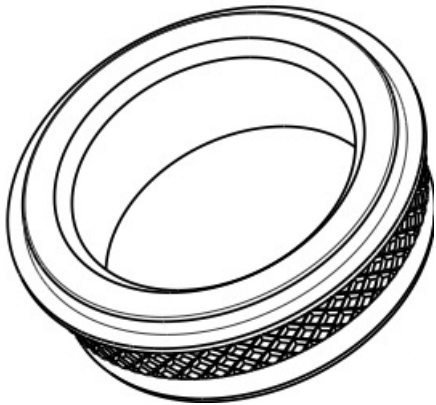
- Industrial AAA alkaline battery
- There is no significant difference between Battery brand
- Storage of battery is more important than the brand



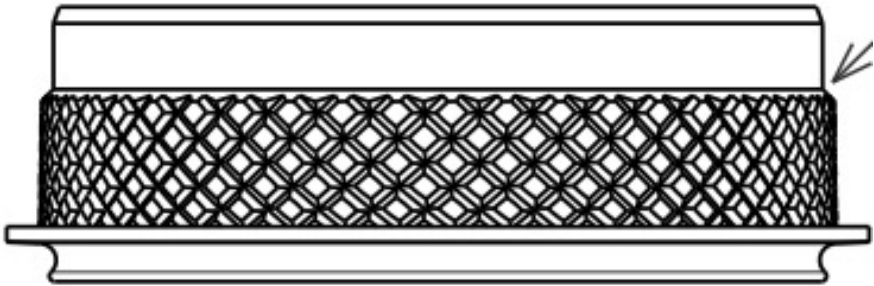
DMC 3000 eTx / NTx / LTx : Battery Cap



Generation 1



Generation 2



Dosimetry & Telemetry

- *DMC 3000 & Modules*
- *DMC 3000 & Connected Ecosystem*

"Enhance your **safety** with connectivity"



**Bluetooth
module**

+



Mirion Watch
additional
remote alarm

+



ConnectStudio
Connectivity
Management



DMC 3000 BLE & Ecosystem



Advantages:

- **Easy pairing & Easy to use**
- **Vibrating device** in case of alarm
- Display information on alarm type
- **Alarm / Information easily reported**

New Information Features

- **Autopairing to last DMC**
 - Time / Time in run
 - Dose / Dose Rate
- **Dose Alarm / Dose Rate Alarm**
 - Wearer Name / RWP
 - A lot more...



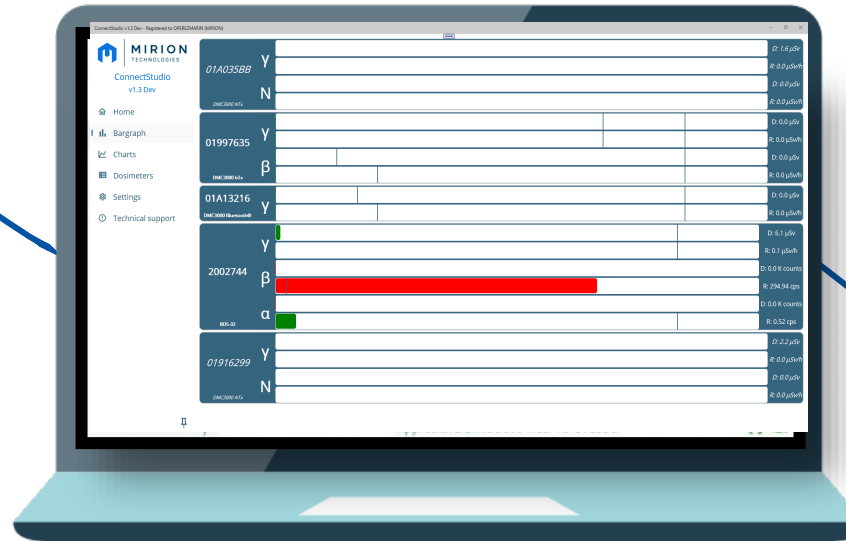
DMC 3000 BLE & Ecosystem

DMC & MirionWatch Automatic Pairing



Feature 1:
Easy pairing between
DMC 3000 and peripherals

ConnectStudio



Wi-Fi / Network



AWM™
(Adaptive Wireless Monitor)



Feature 2:
Wireless Supervision
(DMC short range
~25 meters)

DMC & RDS 32+probes
Automatic Pairing

Feature 3:
Bridge to Mirion WRM™ system
(long range Telemetry ~1000 meters)
Bridge to local network
(Wifi, Lan, other technology)

Mirion Watch: Reinforce Dosimetry Alarm for Challenging

Controlled area



LDM 3200™ NFC
Dosimetry Reader

VIBRATION

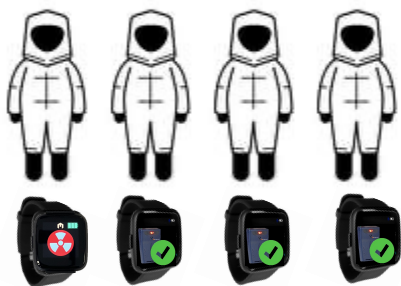
Designed to enhance safety for any tasks
(Time alarm / Dose Alarm / Dose Rate Alarm)
Easy decontamination

**Vibration & Display Alarm
Reinforcement for Challenging
Environment**



Local supervision in RCA by team leader for special operation

Controlled area



Local supervision by team leader

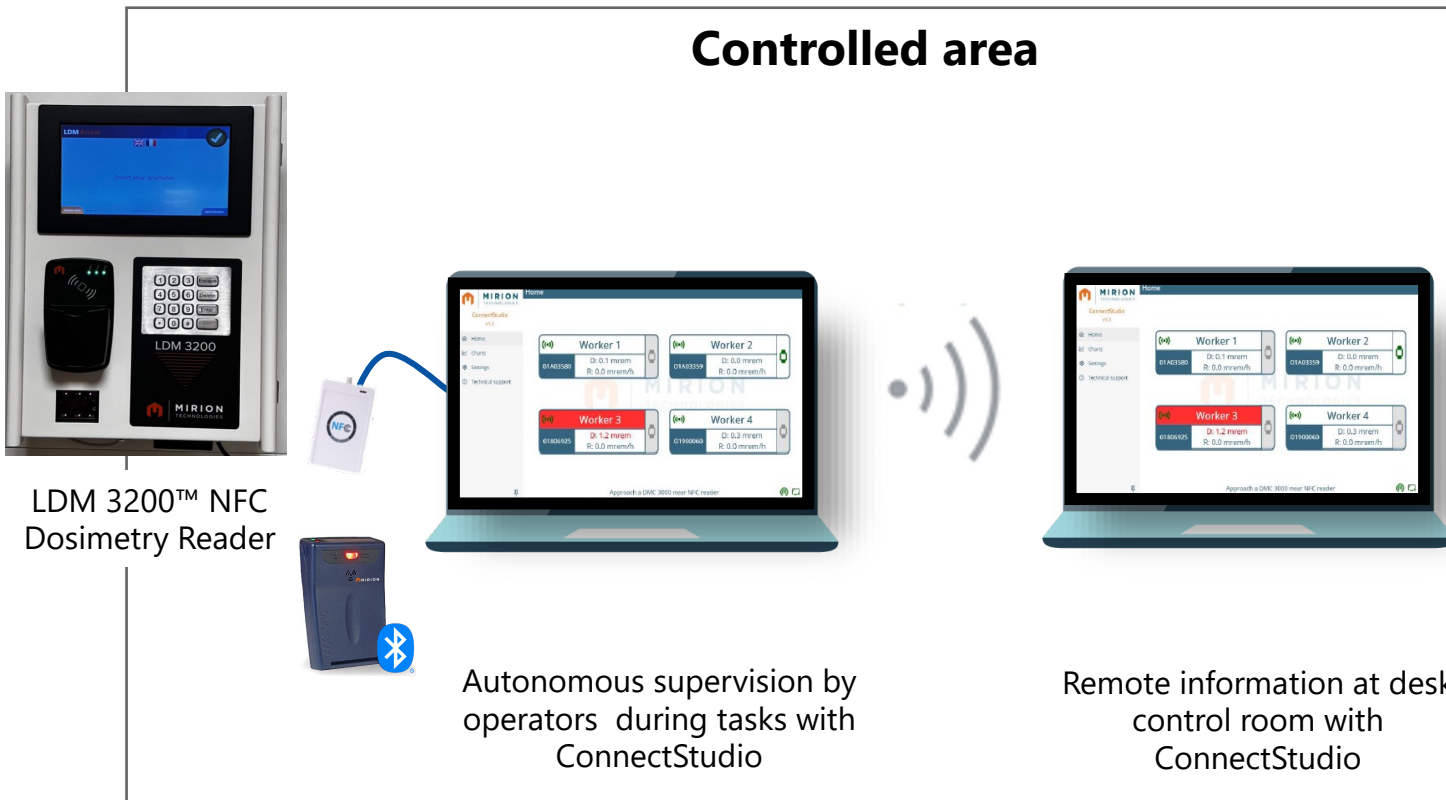
Pairing on site
By simple touch or automatic
pairing
visualization of ongoing
worker exposure

Enhanced safety with
local feedback

Nuclear Glove Box & Wireless supervision

Single & Dual monitoring solution

Controlled area



**Pairing on site by simple touch,
Visualization of paired worker
exposure simultaneous with
wearer & team leader**

Enhanced local feedback



Local & Long Range Wireless Supervision (Bluetooth and WRM Network)

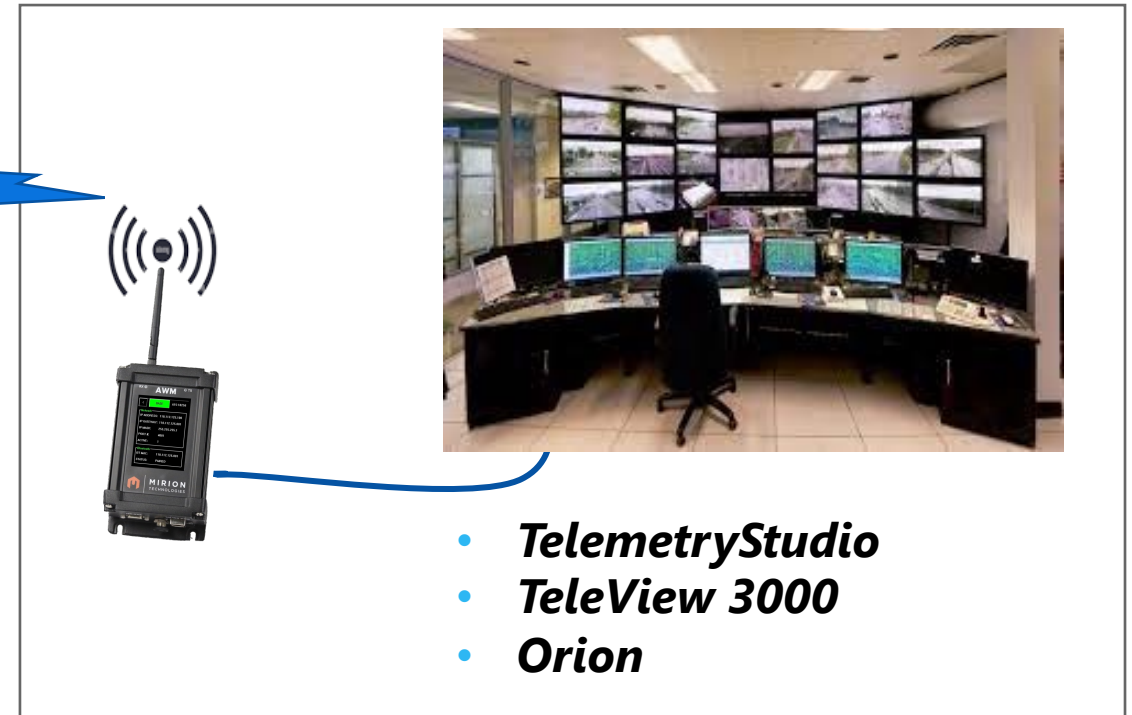
Local Telemetry by Bluetooth®



Local Supervision

- **ConnectStudio** as a bridge to WRM Network
- Control room has access to local supervision data
- Leverage your existing Telemetry System

Long Range Telemetry by WRM™ Network



Control Room Supervision

DMC 3000 Bluetooth & Connected Ecosystem

Long Range Telemetry

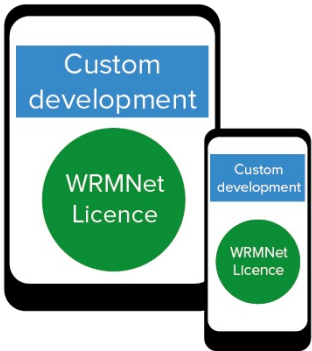
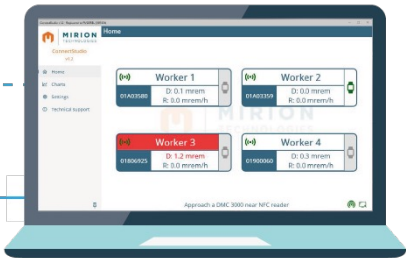
Mirion WRM System



900 MHz (US market)
2,4 GHz (EU market)
WIFI / WIRED communication

Short Range Telemetry

ConnectStudio



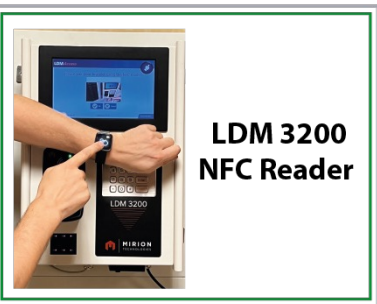
Mobility

DMC 3000 Bluetooth®



Bluetooth Module

Dosimeter Alarm Reinforcement



Mirion Watch



Connected Alarm Report Wristband

- Mirion Product
- Mirion Upgrade
- Mirion based provided, ready for customization
- Wired link
- - - Local Network

Dosimetry & Telemetry

- *DMC 3000 & Modules*
- *DMC 3000 & Connected Ecosystem*

Dosimetry & Telemetry

- *DMC 3000 & Modules*
- *DMC 3000 & Connected Ecosystem*
- *Dosimetry Integration C&C*

Dosimetry C&C Integration



Value Proposition:

- **Proof** that individuals have been properly monitored for contamination
- **Save time** at exit of RCA (read-out & switch-off dosimeter in parallel to contamination monitoring)
- **Save space** (combination of dosimetry and contamination monitoring stations)
- **Identify potential sources/areas for contamination** (through analysis of job-code vs. contamination events)
→ **Understand & reduce contamination events**
- For some cases: C&C products can become **an RCA entrance**

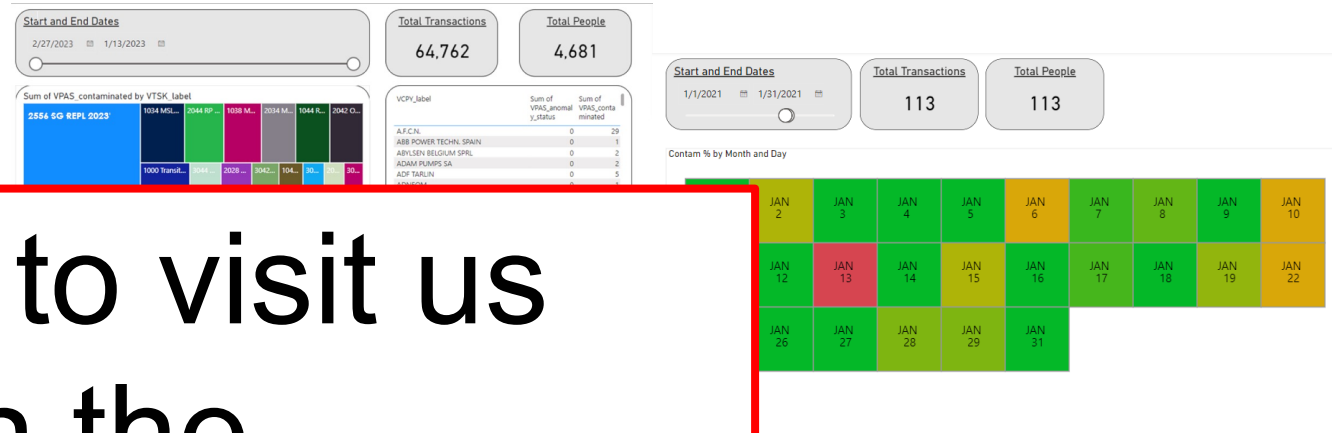
Key Features:

- Direct integration of LDM320 dosimeter reader for DMC3000 in Argos-3/-5 (5)
- User ID is stored with contamination measurement result
- Management of sequences and configuration possibilities
- LDMAccess software for contamination reader is running on Argos e
- Result of contamination monitoring (contam/clean) available in DosiServ

Come to visit us
in the
Nuclear Experience

=> Accelerate decisions & actions

- Time saving / cost saving
=> Productivity Gains



Benefits

management

Product End of Life

- **RAD60/62 & Ecosystem LBO (End of 2024)**
 - *No product available anymore*
- **Tx module: few modules available**
 - **Replacement Product eTx / NTx / LTx**
 - *Hard Components obsolescence*
 - *Upgrade to G3 + remote training*
 - *Customer Notification*
 - *Last Buy Offer (End of 2025)*

AWM Evolution

- **AWM**
 - *New FW (A037)*
 - *Display units for 2.4 GHz*
- **Repeater & Ext transmitter**
 - *Manufacturing issue fixed*
 - *Normal leadtime in coming weeks*



New Module : Beta BLE Module



Q3 2026

New telemetry Module

- *Current performance of detection*
- *Current form factor*
- *Incorporation of BLE capacity*
- *Compatible Mirion WRM*
- **FW update mandatory to V7.8.8**

Bridge with Occupational & Active Dosimeters

Mirion DSD
Legal Report

API

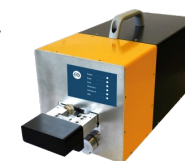
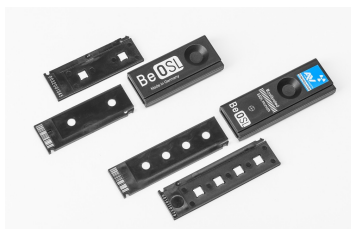
Mirion Dose
Management SW

Dosimetry
Platform

BLE
Connectivity

OSL Reader

DIS Reader



Information update

- **DMCUser (V1.17)**
 - *Beta BLE incorporation*
- **FW DMC 3000**
 - *V7.8.7: Increase Battery autonomous of DMC 3000 BLE*
 - *V7.8.8: Compatible with BLE Beta Module*
- **Passive Dosimetry**
 - *Discussion ongoing for DSD cross sell (Instadose / OSL / DIS)*
 - **DosiServ & HIS 20 API interface with DIS-1 / Instadose / BeOSL**

Information update

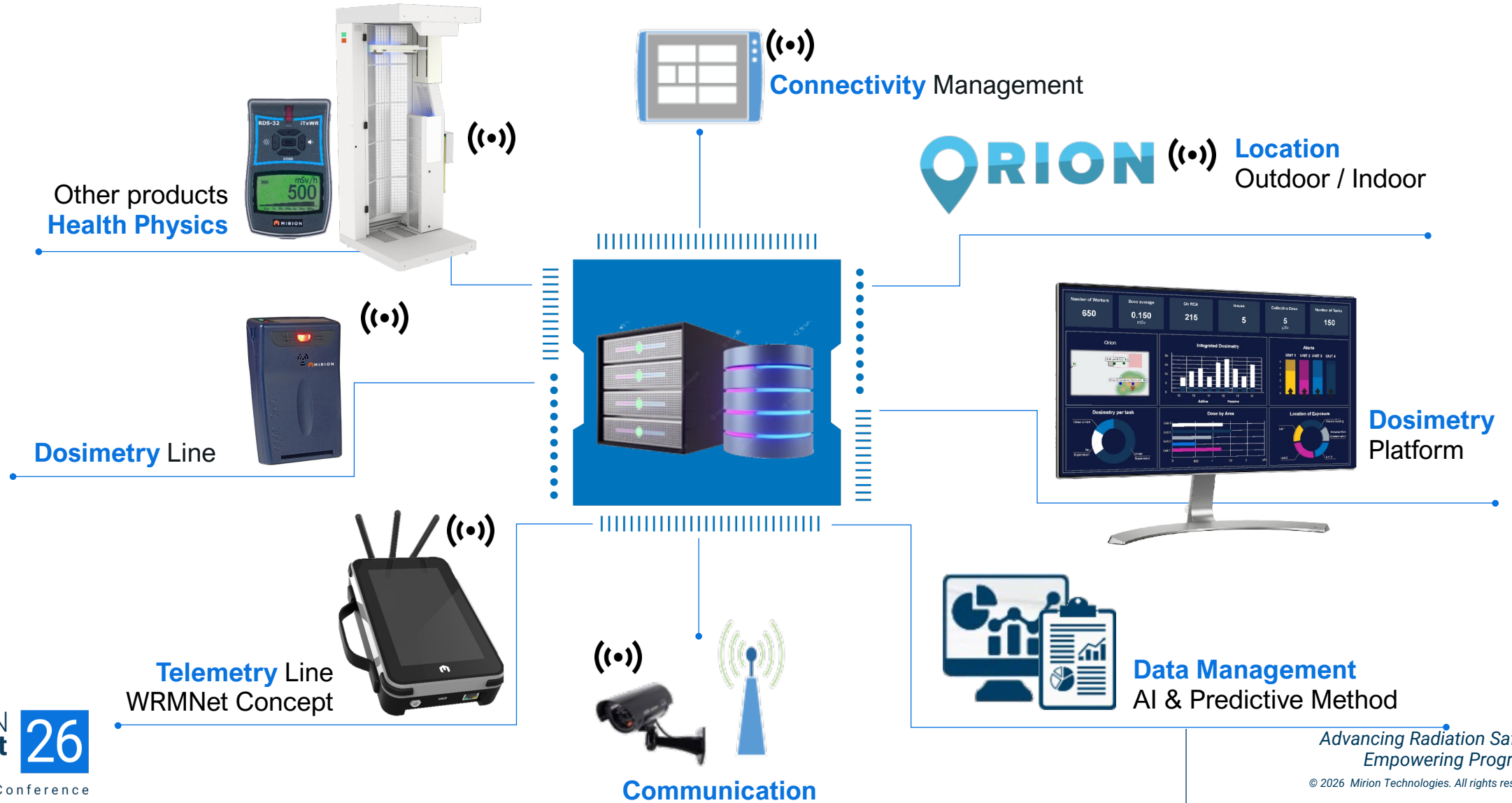
- **Survey on dosimetry & telemetry**
 - *DMC 3000*
 - *Telemetry*
 - *BLE*
 - *Modules*
 - *AWM*

Dosimetry & Telemetry Vision 2030

Shape the Future



Electronic Dosimetry: Vision 2030



-  **Passive & Hybrid Dosimetry**
TLD & Hybrid dosimetry services
-  **Active Dosimetry & Telemetry**
Dosimeters, access control, dosimeter readers, turnstiles, RTLS, watch
-  **Contamination Monitoring**
Whole body, hand & foot, and tool monitoring
-  **Air, Envir. and Area Monitoring**
CAMs, gamma area monitors, tritium, boron, outdoor/perimeter
-  **Spectroscopic Systems**
Stack monitors, CSM, Aegis, solutions, Gamma, Alpha, Alpha/Beta, In Vivo, Waste systems
-  **Imaging**
Radiation Tolerant Cameras
-  **Secure Critical Infrastructure**
Cameras, access control, intrusion detections
-  **Plant Data & Sensors**
Flow rates, chemical sensors, temperature & other data sensors
-  **Portable Radiation Measurement**
Dose meters with probes for surveys, frisking, etc.



Plant Data (flow, releases, etc.)  Radiological Data & Alarm Info 

- 
- On-Prem Plant Computers 
 - Shared Data Platforms like CBRNResponder in Cloud 



Supervisory

-  Rad Protection
-  Telemetry
-  Alarm Notification
-  Instrument Health & Faults



Dose Management

-  Realtime Worker & Site Dose
-  Effluents Dose Calcs
-  Rad Worker & ALARA planning
-  RWP management



Operations

-  Asset Management
-  Health -QA/QC, SoH and Predictive Maintenance.
-  Support - Expert Services
-  Simulation and Training

Vital™ Platform

*Powering Integrated Operations
for Nuclear Energy and Beyond*



Dosimetry & Telemetry

Thank you Question ?

Survey for:

Dosimetry & Telemetry Ecosystem: Connected Solutions for Modern Facilities



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

Section Title

