MIRION Connect 25

Annual Users' Conference

INNOVATION AT WORK

Connecting Visionaries in Radiation Safety, Science and Industry

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

MIRION TECHNOLOGIES

MC25 – Breakout Session
DosiServ

BLEUSE Olivier

Dosimetry & Telemetry – Product Line Manager

Mirion Connect | Annual Users' Conference 2025

Orlando, Florida

MIRION Connect 25
Annual Users' Conference

Innovation at Work

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Agenda

- **DosiServ Introduction**
- **DosiServ Part 2: Advanced features**
- **DosiServ Part 3: DosiServ 2026**
  US features & Roadmap

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DosiServ

- Introduction

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Mirion Electronic Dosimetry

A dosimeter for everyone, for all purposes

- **Over one million DMCs electronic dosimeters in service**
- **Used in all NPPs around the World:**
  More than 70 % of reactors are using a Mirion dosimeter
- Equipped many armies around the world (SOR R/RF/T)
- **Long in service life, Low failure Rate**
  (DMC 2000, DMC 3000)
- Full & complete ecosystem
- **Qualification with IEC & other standards**

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Mirion Dosimeters & Ecosytem

Dose Management SW

DosiServ

Access Control SW

Telemetry SW

ORION

DMC Configuration SW

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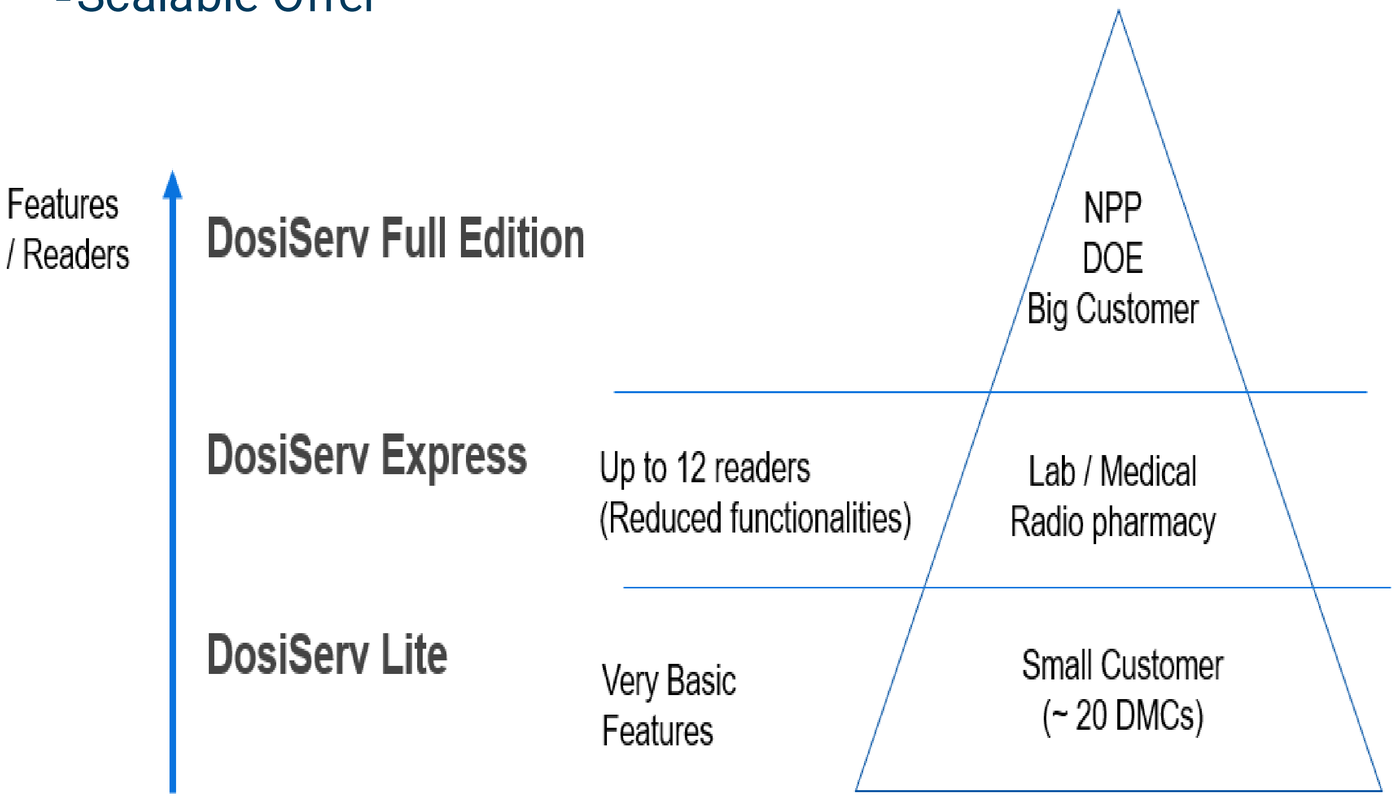
Mirion Dose Management Software

DosiServ™

- **Dose Management SW from 2006**
  - Leader in Europe & **Strong Customer base**
  - **Modern & efficient solution up to date**
  - **Evolutive & customizable**
  - **Cybersecurity up to date**

- **DosiServ Community**
  - Biannual user letter
  - Conferences

- Scalable Offer



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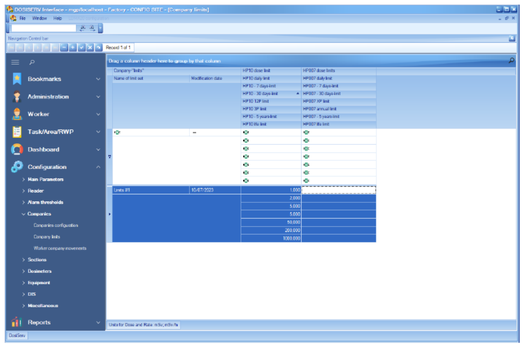
What is a Dose Management Software ?

Database Server

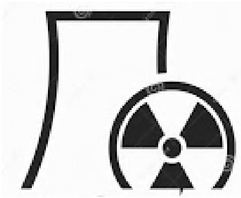
Application Server

Workstation



DosiServ

Manage the dosimetry of exposed people



Nuclear Energy (NPP&Lab)

Industrial
Oil & Gas
Mining

Military

Civilian
- Medical
- FR/HLS
- Gov

- **Mirion Dose Management Software scalable (NPPs, Lab, Hospital, etc…)**

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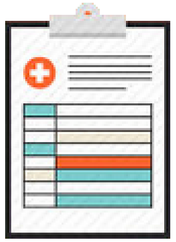
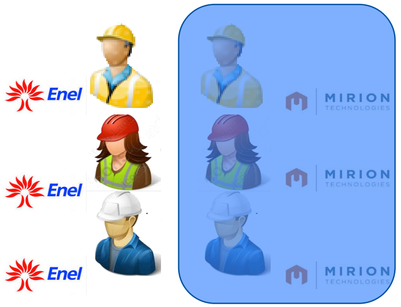
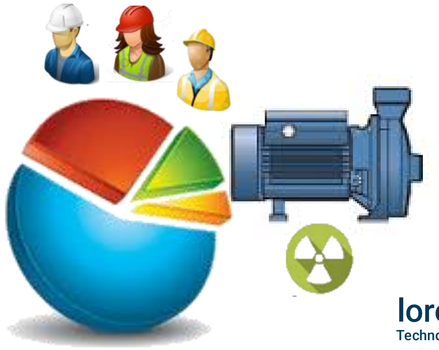
What is a Dose Management Solution ?

Work Orders &
Asset Management

- Management of workers, entrance/exits in RCA , DMC configuration
- Management of RWP, task & authorization, alarms
- Management of collective dose / Worker dose / Credit Dose / RWP dose
- Automatic Reports
- Scalable & customizable product







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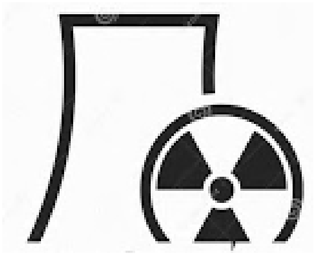
Mirion Dose Management Software Scalability

Health Physics Unit

Database Server

Application Server

Workstation



NPP 1 & 2

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Mirion Dose Management Software Scalability

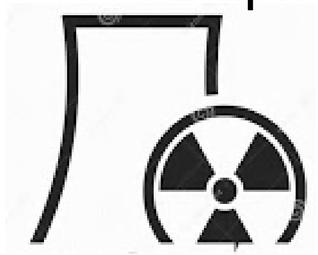
Health Physics Unit

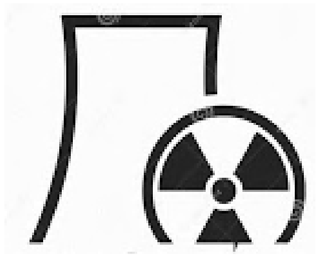
Database Server

Application Server

Workstation

Duplicate or custom





Health Physics Unit

Workstation

NPP 1 & 2

NPP 3 & 4

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Mirion Dose Ma… Soft… Scal…

…base …er

Mirion Dose Management SW

User friendly & GUI up to date
Global management approach
Scalable & Upgradable
Evolutive & Innovative
CyberSecurity up to date

Automatic reports ready

⇒ **Great flexibility regarding demands and needs**

Health Phy… …ysics Unit

NPP 1 & 2 NPP 3 & 4

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DosiServ Significant References

Nuclear reactors:

- **Spain**
  - ALMARAZ (R)
  - ASCO
  - VANDELLOS
  - TRILLO (R)
- **Sweden**
  - RINGHALS
  - Barsebäck
  - Forsmark
  - Oskarshamn
- **Finland**
  - Olkiluoto (R)
  - Loviisa
- **Belgium**
  - DOEL
  - Tihange
- **Netherlands**
  - BORSSELE
- **China**
  - Taishan
  - Qinshan
  - Sanmen
  - Day Bay
  - Ling AO
  - Fang Jiashan
  - Tianwan
  - Fuqing
- **Pakistan**
  - Chashma
  - Karachi
- **Ukraine**
  - Zaporozhye
- **Italy**
  - Caorso
  - Trino
- **RSA**
  - Koeberg
- **Switzerland**
  - Gosgen
  - Leibstadt (R)
- **Slovenia**
  - Krsko
- **Czech Republic**
  - Temelin

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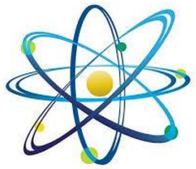
Industry facilities/Labs (significant)

- Studsvick (Waste &Decommissioning /Sweden)
- Svafo (Waste&Decommissioning/Sweden)
- ESS Lund (Sweden)
- NRG(Research/Netherlands)
- COVRA (Waste Mgt/Netherlands)
- CURIUM (Medical Isotopes/Netherlands)
- CYSBIO (Medical Isotopes/France) **X 2**
- CERN (Research/Switzerland)
- ISPRA / JRC (Research Italy)
- GANIL (Waste Mgt/France)
- PSI Institute (Research/Switzerland)
- ISS/STFC (Research/UK)
- Helmholtz-Zentrum Geesthacht (Germany)
- KTE Karlsruhe (Germany)
- French Navy (boats + bases + shipyards)
- Andra (Waste Mgt/ France)
- ILL (Research Reactor/France)
- Centraco (Waste Mgt/France)
- Cyclife Uk Ltd (Waste Mgt/UK)
- Cyclife Sweden AB (Waste Mgt/Sweeden)
- CH2M HILL BWXT West Valley, (DOE/USA)
- DND (Dpt of National Defense Canada)
- Global Medical Isotope (Oak Ridge) (USA)
- CURIUM (USA)
- General Motors (Industry/USA)
- LLNL (Lawrence Livermore National Laboratory, research/USA)
- MUR*R* (Missouri University Research Reactor/USA)
- MIT (University USA)
- Los Alamos NM (USA)
- Kinetrics (CANADA)
- ANGRA Fuel dry Storage (Brazil)
- LLWR (EDF Repository UK)
- NORTHSTAR Medical (USA)
- SHINE Medical (USA)



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DosiServ

- Introduction
- DosiServ Ecosystem

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Introduction

- The DosiServ dosimetry system is an integrated **state of the art dose management** system.

➔ **Current version name : DosiServ 2023**

It is fully **scalable** in order to comply with nuclear power plant as well as smaller industry expectations.

Multi-languages

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Introduction (Architecture)

system : Dosimeters + reader + management software

Dosimeter

Front-end

Mirion Readers or DYI

LDM "DIY"

Back-end

Network

Dedicated management SW

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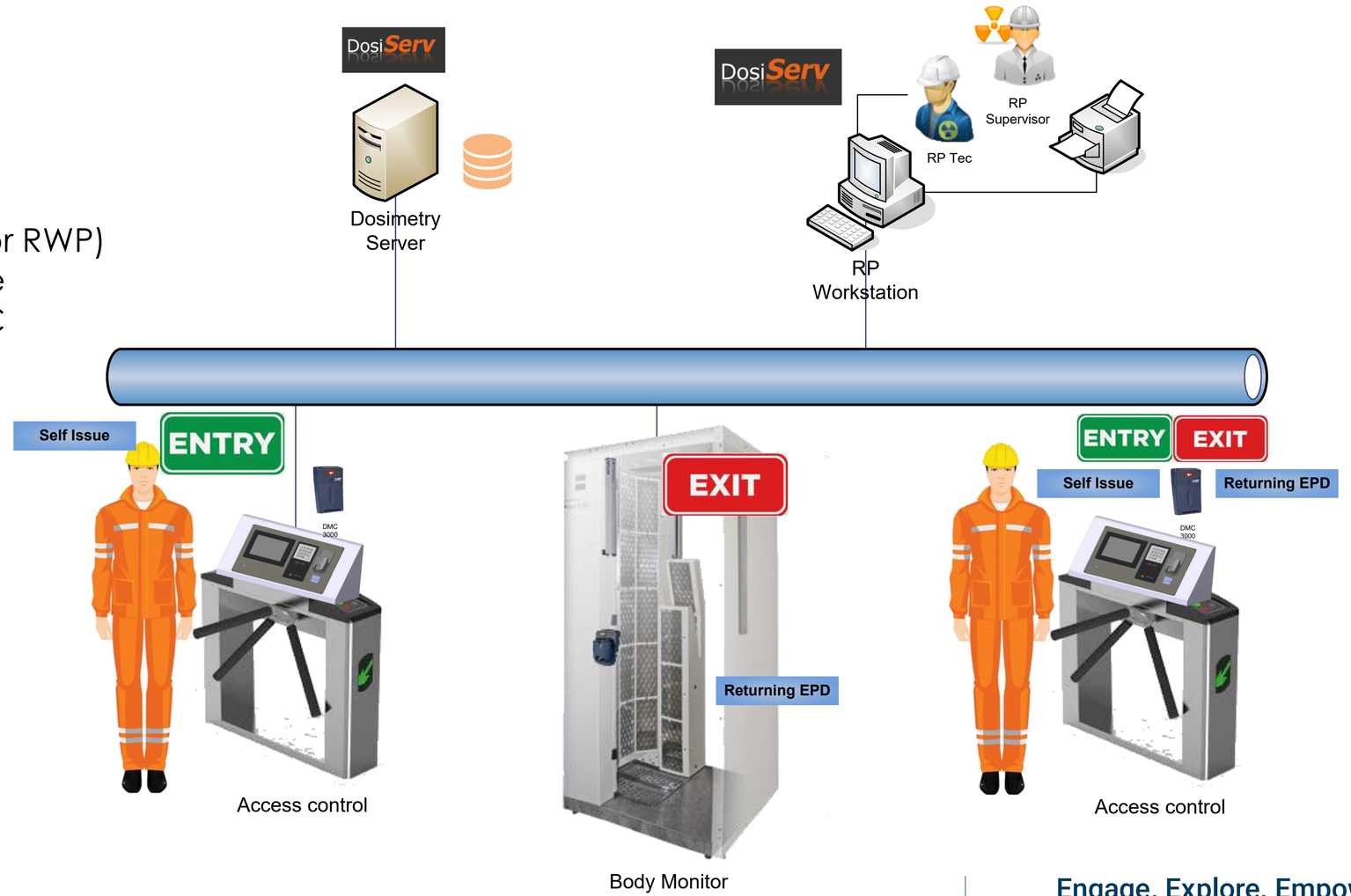
Dosimetry system main concepts

Architecture

- Verifying the Dosimeter is operating properly
- Verifying workers identity and qualification
- Selecting a Job code (also called Task code or RWP)
- Verifying the selected Job code is appropriate
- Programming the Alarms set point on the DMC
- Switching the DMC on

- reads the dosimeter
- stores the dose(s)
- stores dosimeter conditions
- switch the dosimeter off



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DosiServ

- Introduction
- DosiServ Ecosystem
- Access Control
  - From worker point of view

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From the worker perspective

LDMAccess

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From the worker perspective

RCA ENTRY

A very basic RCA Entry sequence is made of:

- Dosimeter Insertion
- Worker identification (badge input or scan)
- Job code/RWP selection

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From the worker perspective

RCA ENTRY

Worker Identification

Once a dosimeter has been detected, the worker identification process starts:

- Badge can be read using barcode reader or dedicated badge reader
- Badge number can be typed using keyboard
- Badge number can be read from the dosimeter if it is assigned to an individual.

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From the worker perspective

RCA ENTRY

Job / RWP input

Job / RWP input can be performed:

- Using barcode reader
- Using keyboard
- By selecting an item from the suggested list.

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From the worker perspective

RCA ENTRY

Access Denied

Once all inputs have been done, the access control is performed and if some mandatory checks fail then access is denied.

- The reason for the denial is displayed to the worker.

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From the worker perspective

RCA ENTRY

Access Authorized

Once all inputs have been done, the access control is performed and if all mandatory checks succeed then access is authorized and the appropriate alarms are set on the dosimeter.

- The successful entry message can be customized.

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From the worker perspective

RCA ENTRY

Additional Inputs

The entry sequence can be configured to request additional inputs from the worker:

- RWP and then Task input
- Official Dosimeter number input (OSL, TLD, DIS…).

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From the worker perspective

RCA EXIT

A very basic RCA Exit sequence is made of:

- Dosimeter Insertion
- ….and that’s it !!

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From the worker perspective

EXTENDED CAPABILITIES

- The DosiServ ecosystem can leverage from all the latest innovations that have been introduced in the active dosimetry product line.
- The use of external module (Beta, Neutron…) can be checked depending on the selected RWP/Job.
- The NFC capability can be used for MirionWatch Quick & Easy Pairing/Unpairing.

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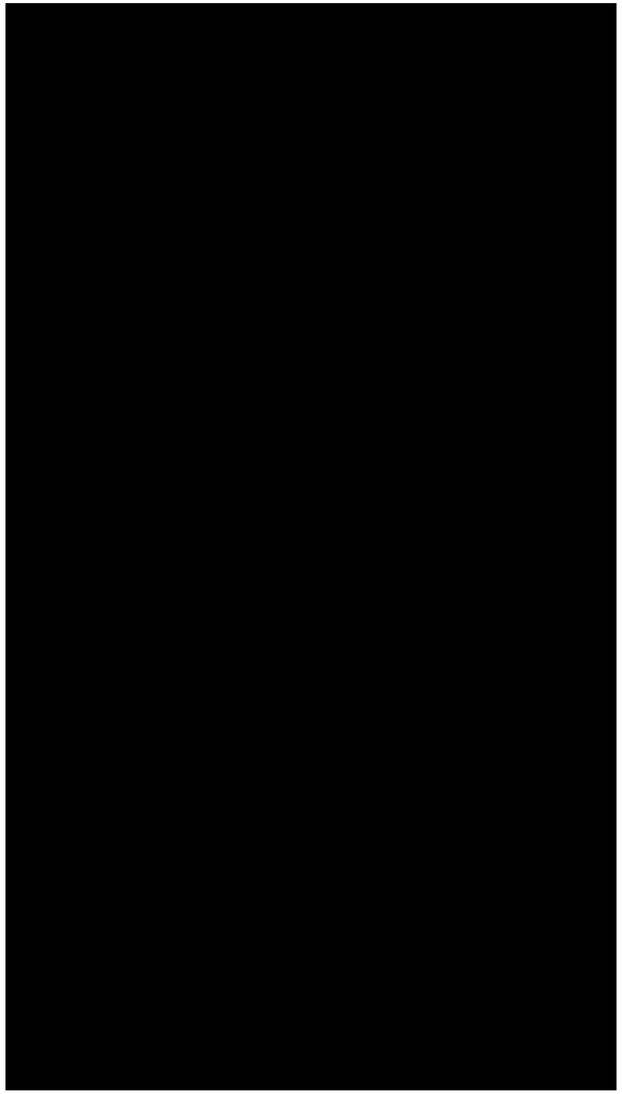
From the worker perspective



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DosiServ

- Introduction
- DosiServ Ecosystem
- Access Control
  - From worker point of view
  - From HP perspective

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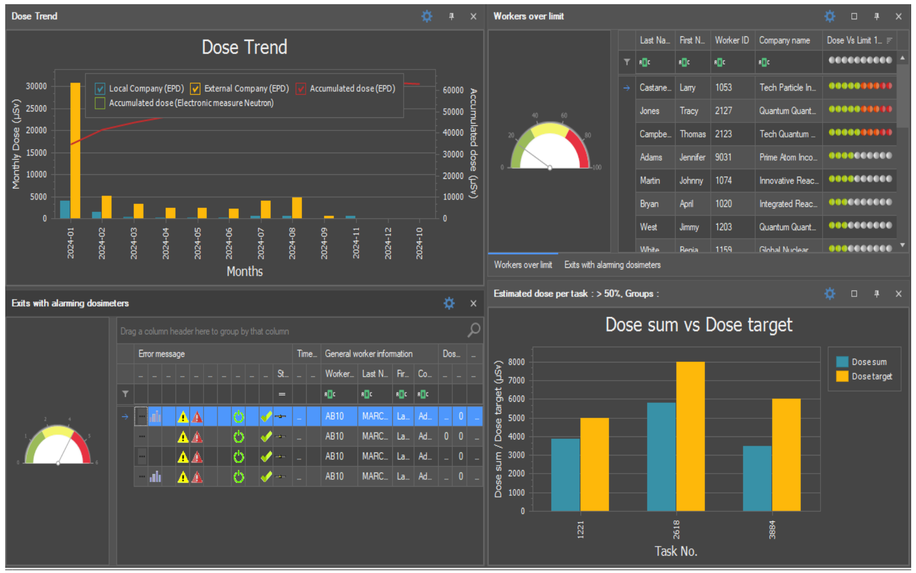
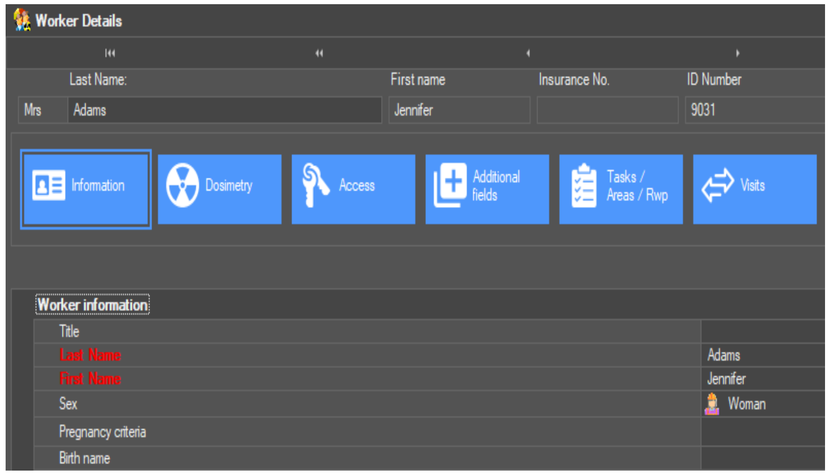
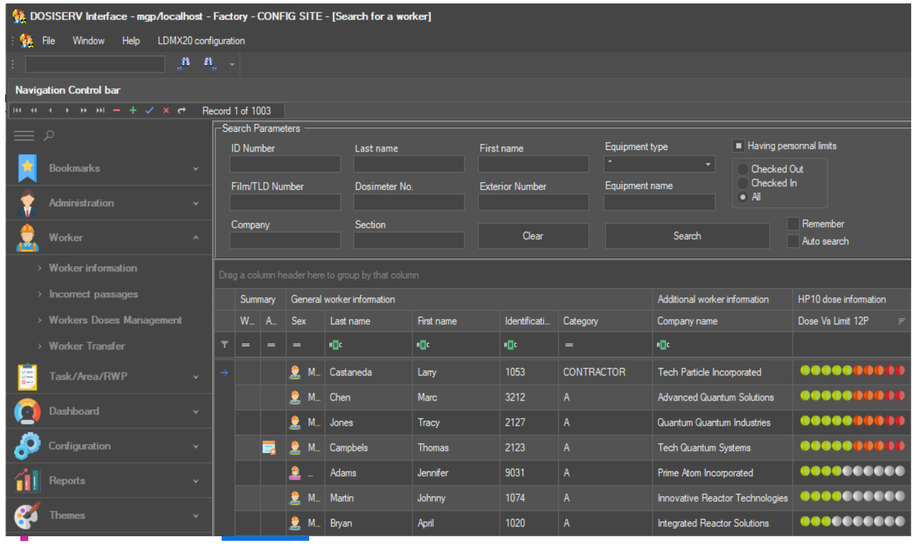
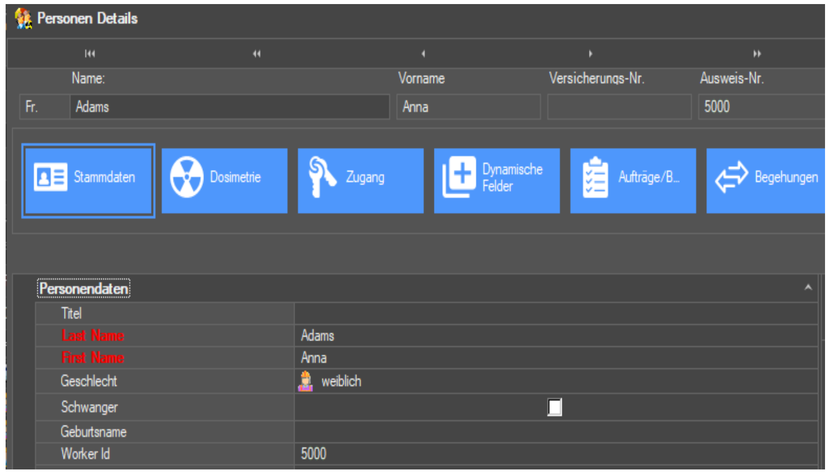
From the Health Physics perspective







DosiServ



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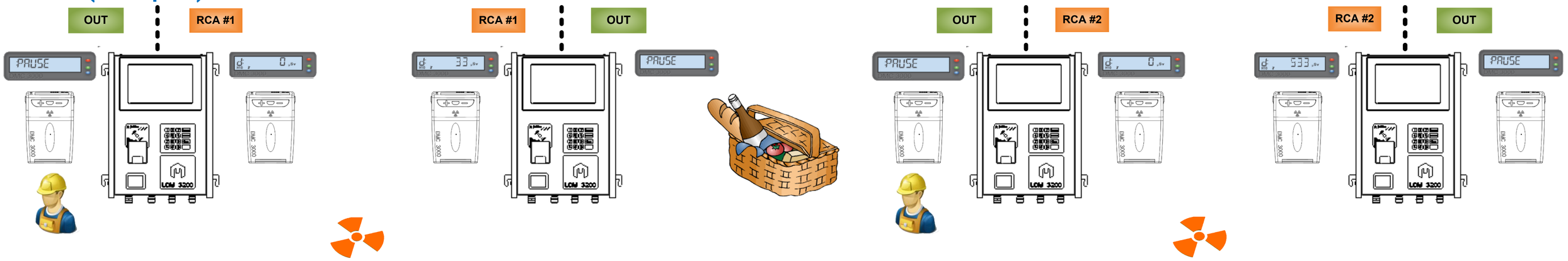
Dosimetry system main concepts

Visit (simple)



- Everything is recorded/archived
- Including EPD Settings

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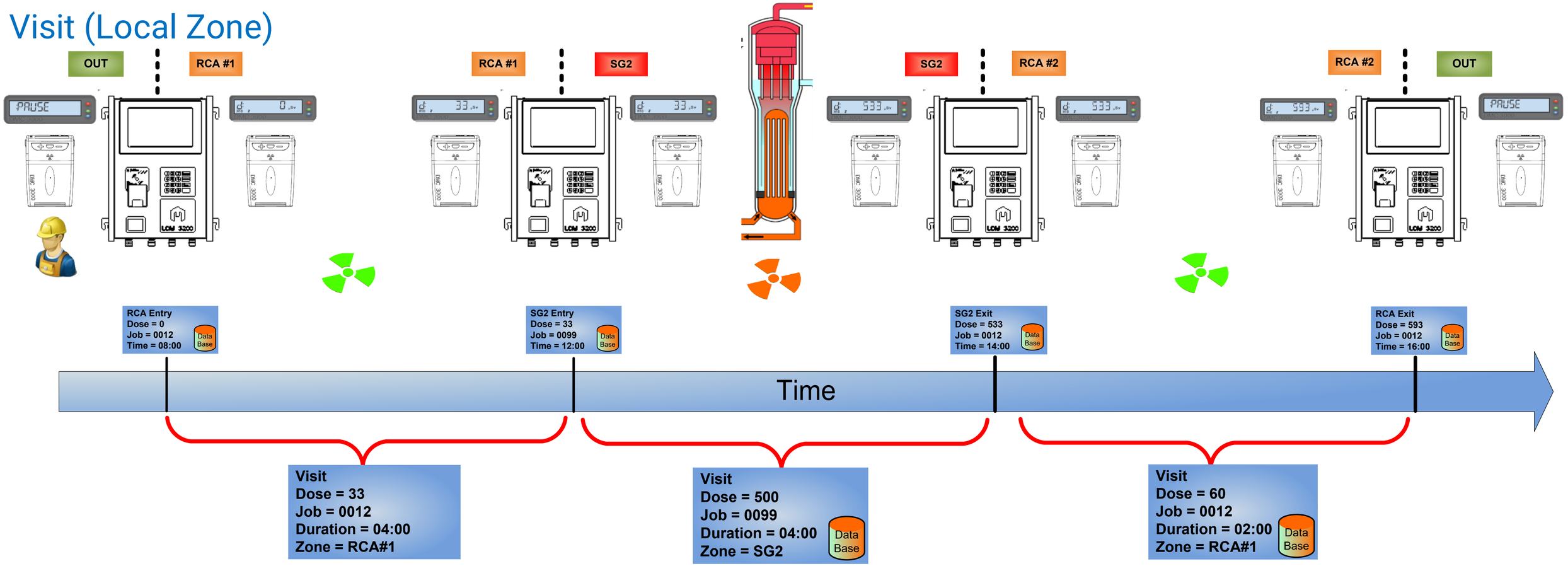
Dosimetry system main concepts

Visit (Local Zone)



- Within the RCA, EDP settings can be changes without need to switch off and back on
- Everything's recorded to allow dose tracking

33 + 500 + 66 = 593

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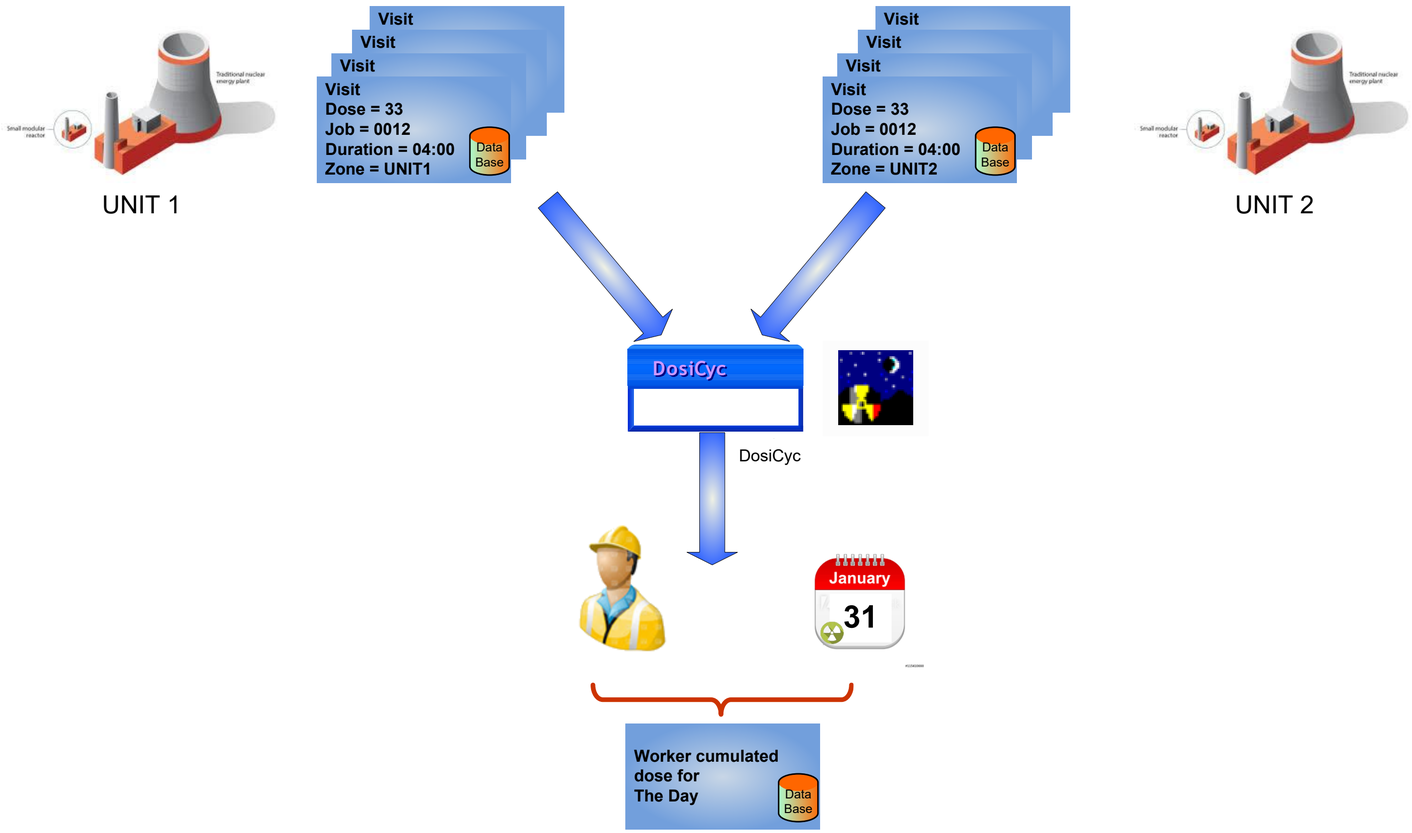
Dosimetry system main concepts: Dose Summary

Dose Calculation:

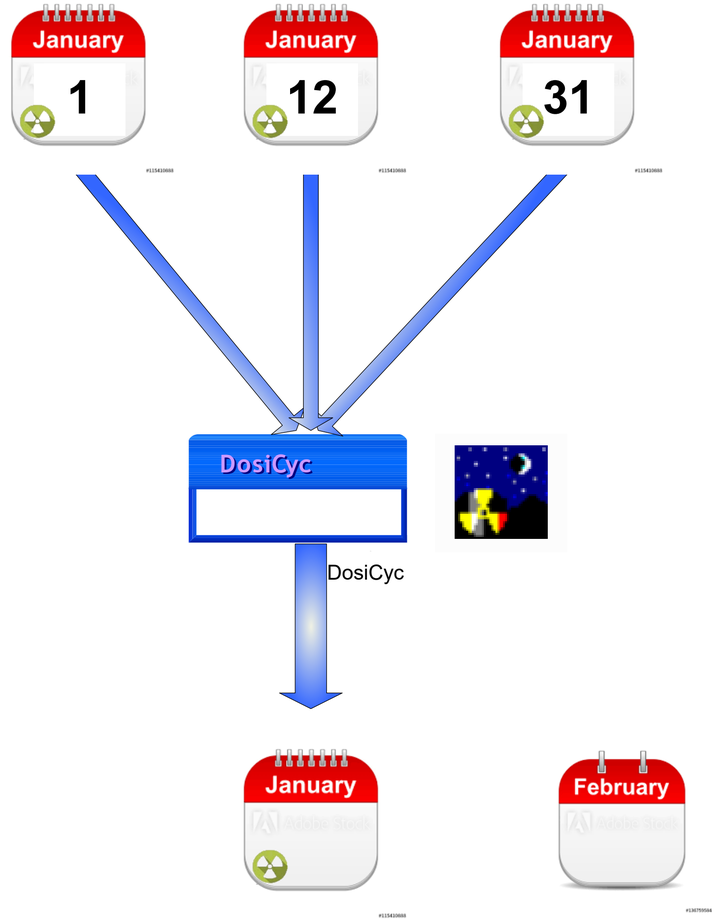
Daily Dose

(Multi Units & site example)



Dose Calculation:

Daily Dose & Monthly Dose



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From the Health Physics perspective

➔ Protect Worker VS Legal Limits

- One goal : protect the workers not to go over the yearly legal limit (20mSv/2 rem)
- "Legal" dose can "compete" with Electronic Dose
- One can add any time in the life of the system a dose to monitor and to be part of the calculations

Jan	Feb	Mar	Apr	May	
Jan 0,18 rem	Feb 0,1 rem	Mar 0,4 rem	Apr 0,4 rem	May 0,2 rem	YTD 1,28 rem
Jan 0,1 rem	Feb 0,0 rem	Mar 0,3 rem	Apr 0,3 rem	May ??? rem	YTD 0,7 rem
					YTD 0,9 rem

Access Control

- Official doses can be combined with EPD doses
- Any doses can participate to the "combination" (such as intakes/WBC measures)
- Official dose can be compared with Electronic dose

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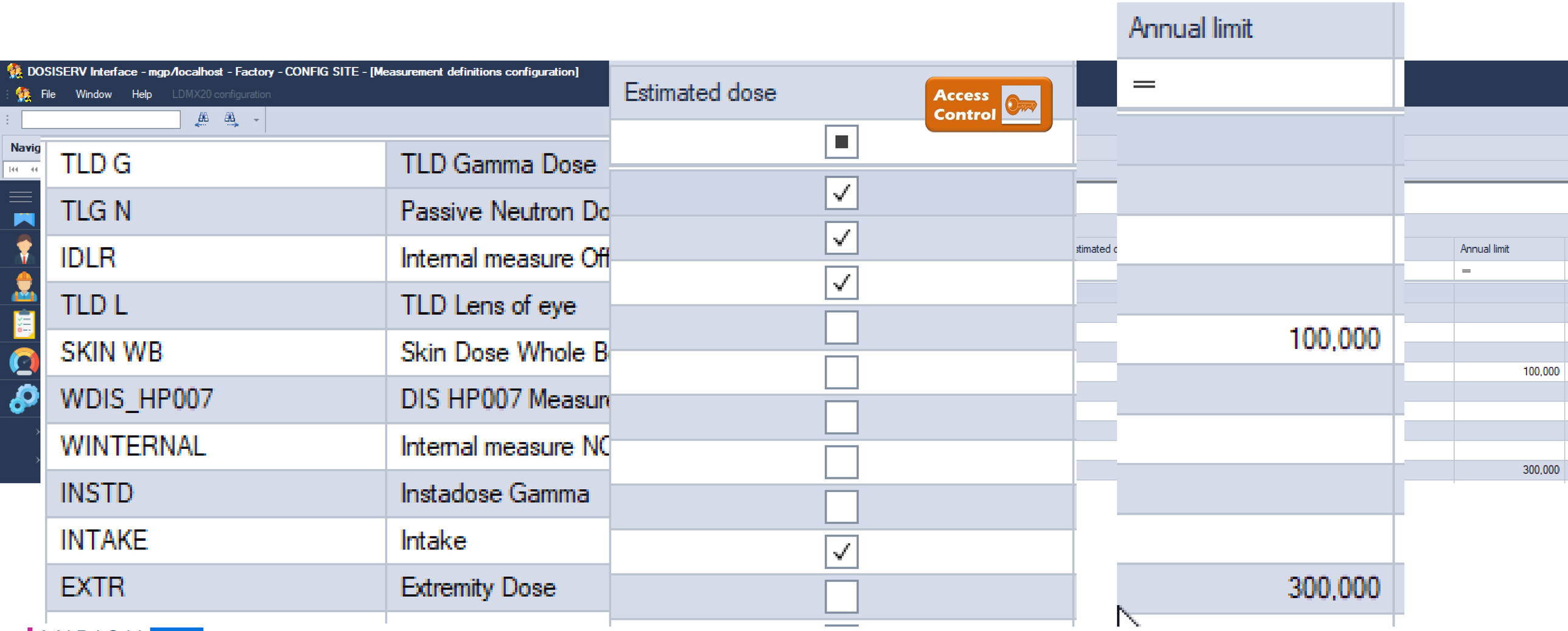
From the Health Physics perspective

➔ Create and monitor doses



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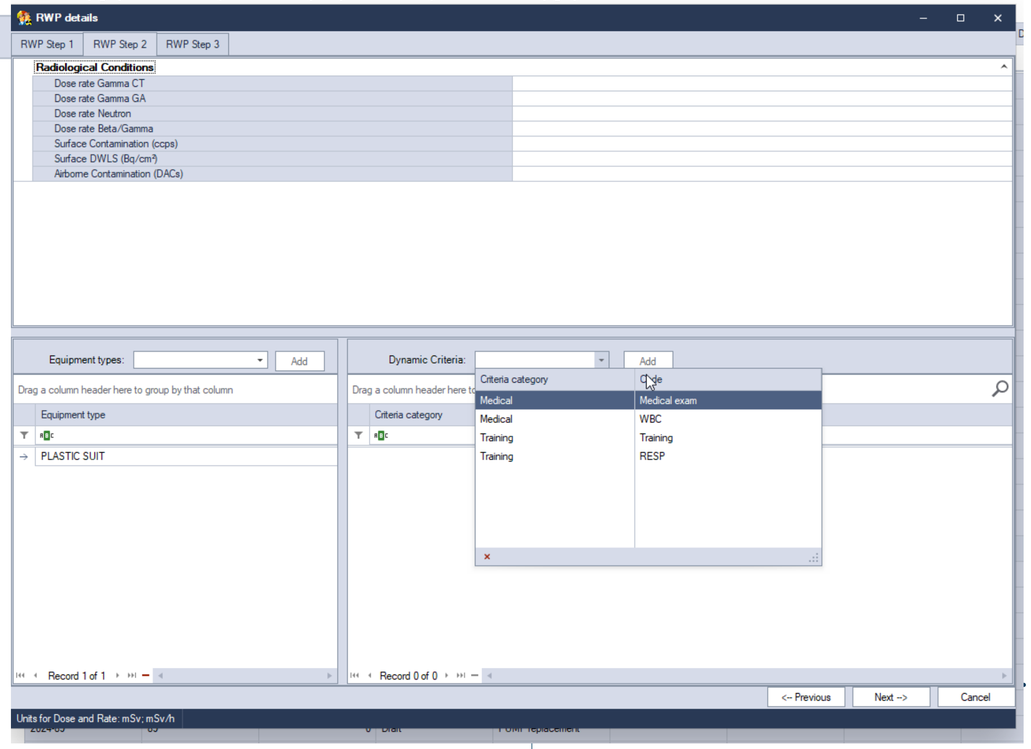
Qualifications

Record 1 of 4

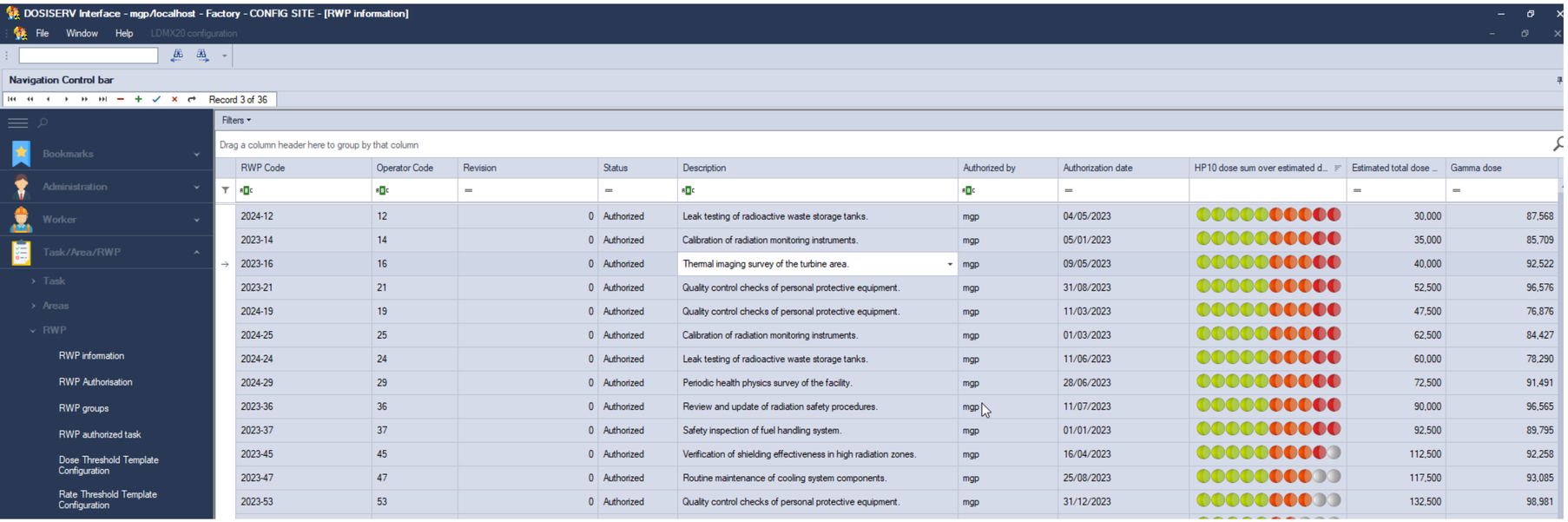
Drag a column header here to group by that column

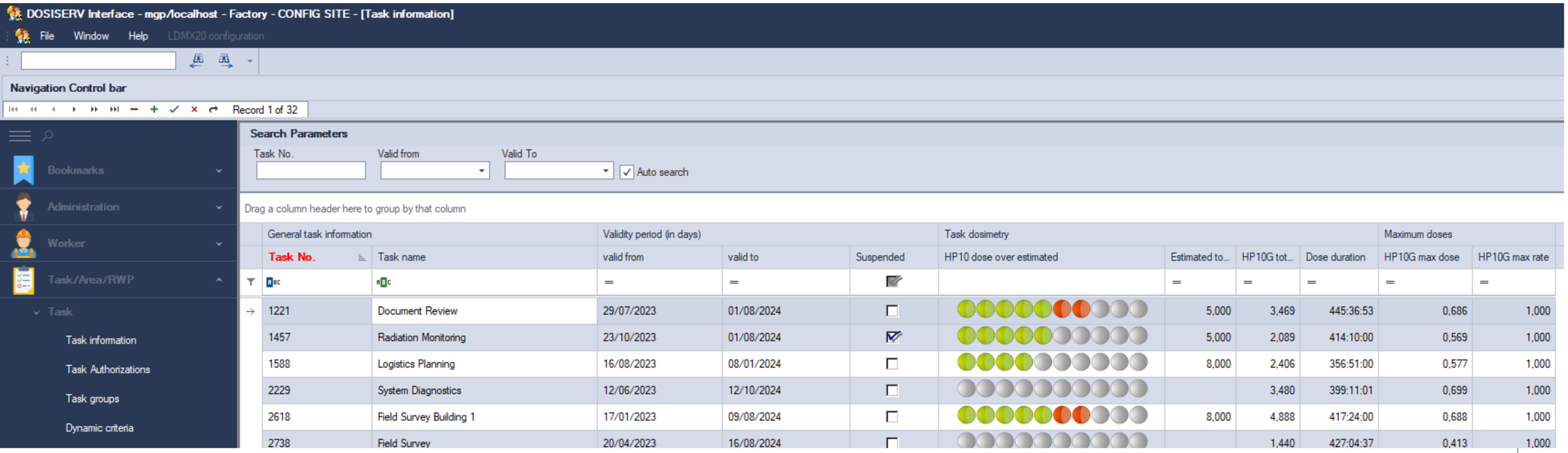
Configuration of dynamic criteria					Definition		
Category	Code	Message	Reader message	Sex conce…	Mandatory criteria	Mandatory date	Default value
Medical	Medical exam	Examen medical invalide ou éch…	EX. MEDICAL INVALIDE	Both	✓		✓
Training	RESP	Respirator Training and fit test	CALL 887	Both			
Training	Training	Formation invalide ou échéance …	FORMATION INVALIDE	Both	✓		✓
Medical	WBC	WBC invalide ou échéance dép…	WBC INVALIDE	Both			



- New qualifications to verify at access control can be added any time
- Qualifications does not need the be always matched
- As they can be connected to a RWP only

RWP / JOB (or both)





- Main difference: Workflow to get the number available
- Job code can be part of an RWP (i.e. worker select RWP first then Job)

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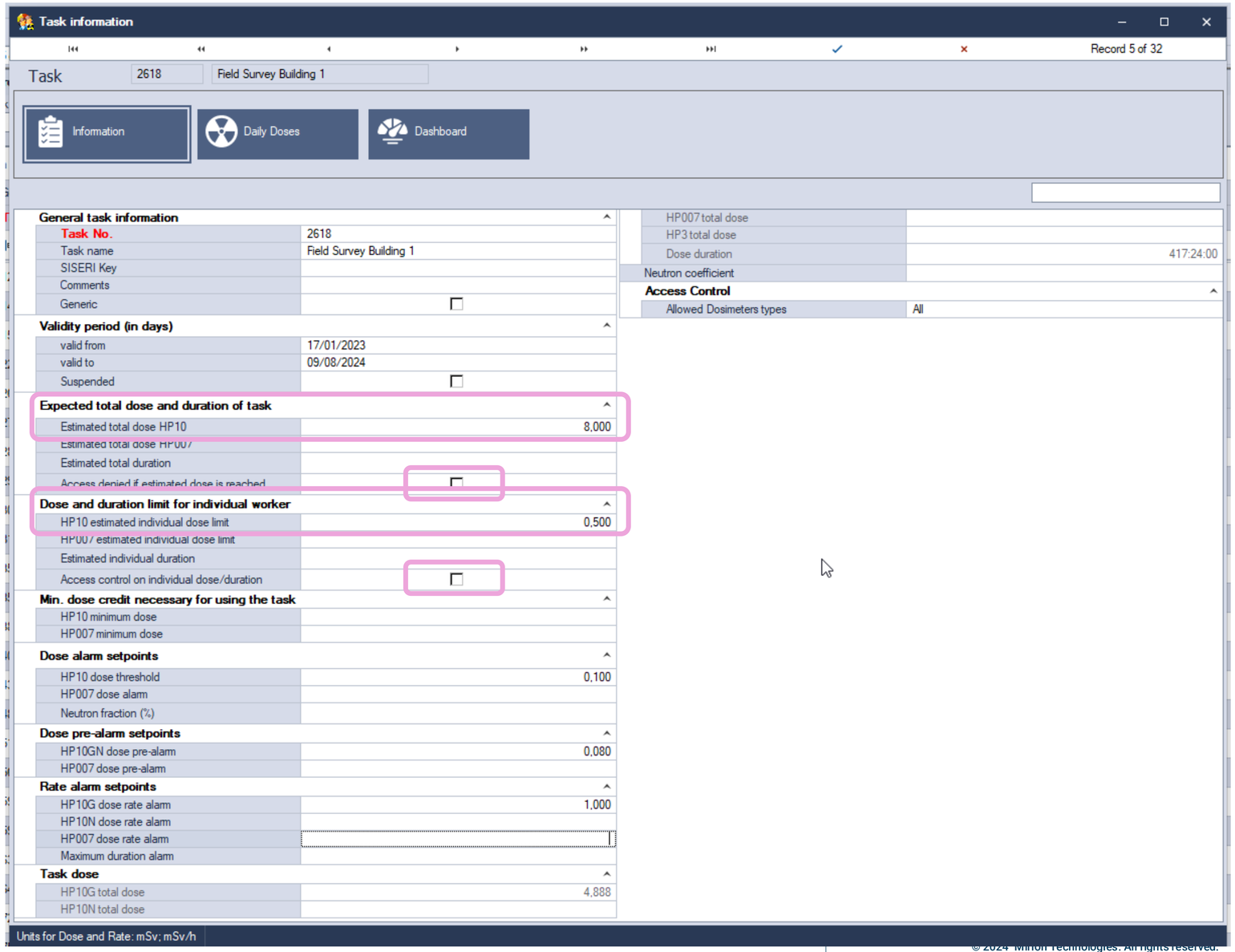
Dose Budgets

- Global budget for the Job
- Access still allowed ?
- Dose per individual for that Job
- Access still allowed ?



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Dose Budgets

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General task information		Validity period (in days)			Task dosimetry			
Task No.	Task name	valid from	valid to	Suspended	HP10 dose over estimated	Estimated to...	HP10G tot...	Do
ABC	ABC	=	=			=	=	=
5999	Project Planning	16/05/2023	06/05/2024	☐		1,000	2,903	
8171	Performance Review	12/06/2023	28/11/2024	☐		2,000	3,661	
3179	Equipment Testing	17/06/2023	08/05/2024	☐		4,000	3,647	
5902	Inspect Safety Gear	06/10/2023	24/03/2024	☐		5,000	4,020	
5160	Coolant System Check	27/11/2023	21/05/2024	☐		6,000	4,377	
1221	Document Review	29/07/2023	01/08/2024	☐		5,000	3,475	
2618	Field Survey Building 1	17/01/2023	09/08/2024	☐		8,000	4,888	
3884	Safety Briefing	20/09/2023	11/01/2024	☐		6,000	3,052	
7570	Technical Writing	15/07/2023	20/06/2024	☐		4,000	1,866	
8058	Inspect Safety Gear	12/04/2023	11/04/2024	☐		4,000	1,838	
1457	Radiation Monitoring	23/10/2023	01/08/2024	☑		5,000	2,089	
1588	Logistics Planning	16/08/2023	08/01/2024	☐		8,000	2,406	
8408	Hazard Assessment	12/12/2023	10/01/2024	☐			1,399	

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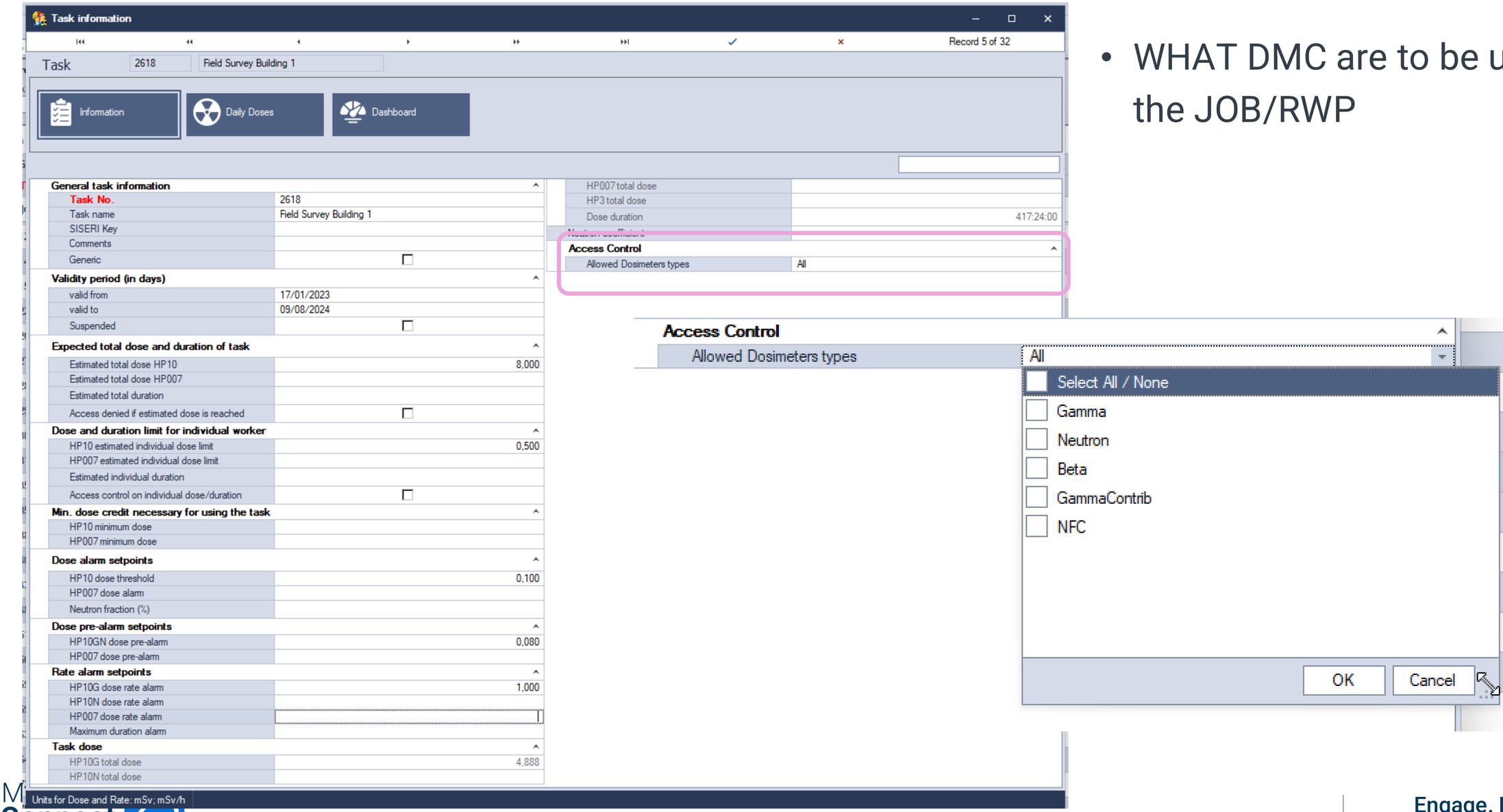
DMC Selection



- WHAT DMC are to be used for the JOB/RWP

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Dashboard

- The dashboard is a standalone application that does not need human interaction

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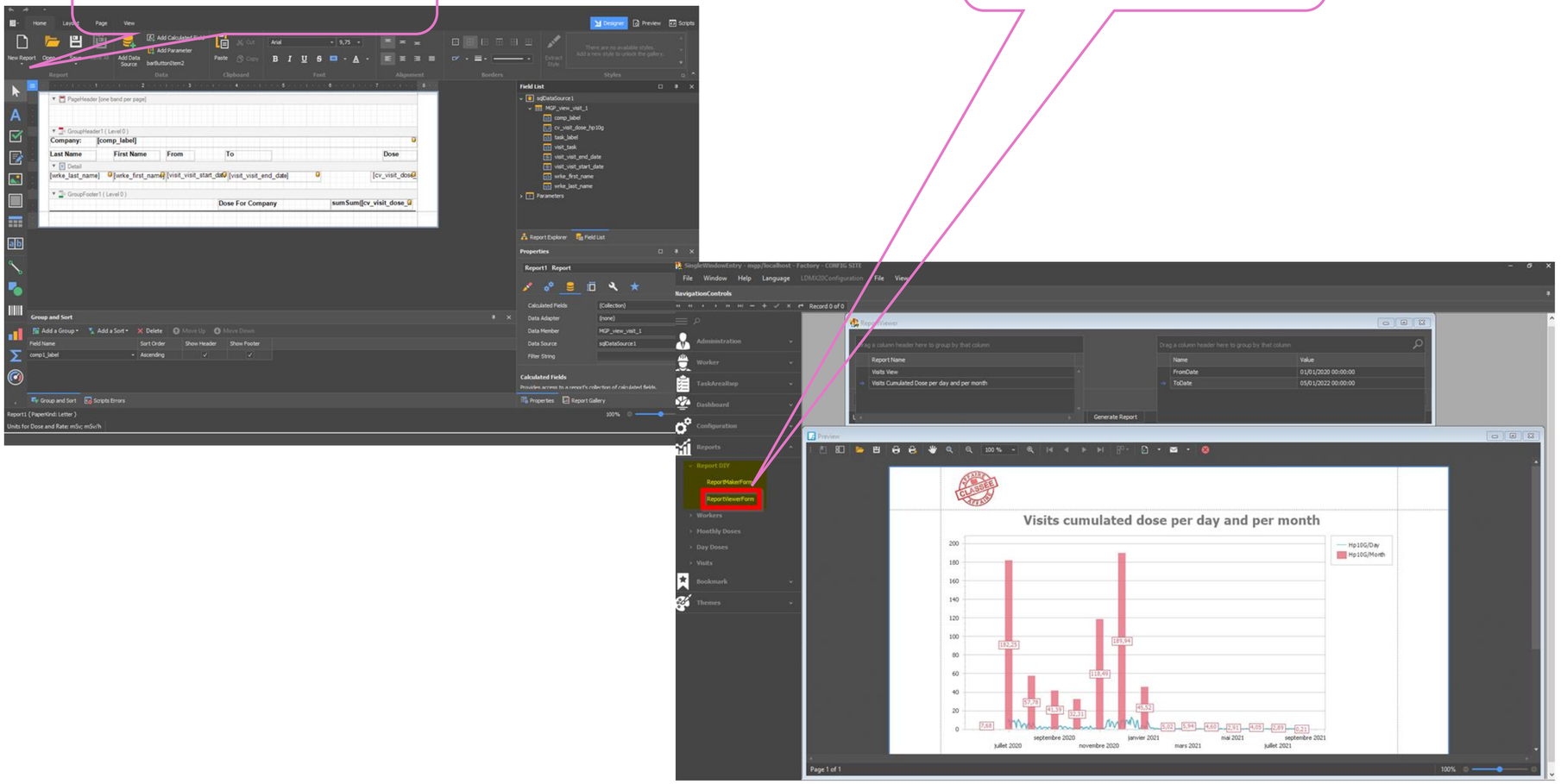
Reporting

- Training
- Excel direct into the database
- Power BI direct into database
- Dedicated tool

Step 1 : create report

Step 2 : make it available for others



MIRION Connect 25
Annual Users' Conference

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Body Monitors Measurements

Contamination Monitoring and Dosimetry Integrated Products

DMC 3000 Personal Electronic Dosimeter and LDM 320W Dosimeter Reader

DMC 3000 Personal Electronic Dosimeter and LDM 320D Dosimeter Reader

OUT

Data Base

1. Th
2. Wh
   mo
3. Workers take necessary actions and finaly exits
4. Worker witch of dosimeter

➔ DosiServ will record a visit for that person and the Job code selected at entry time

n order to connect the **visit** with the **Contam Event AND** with the **measurement results**

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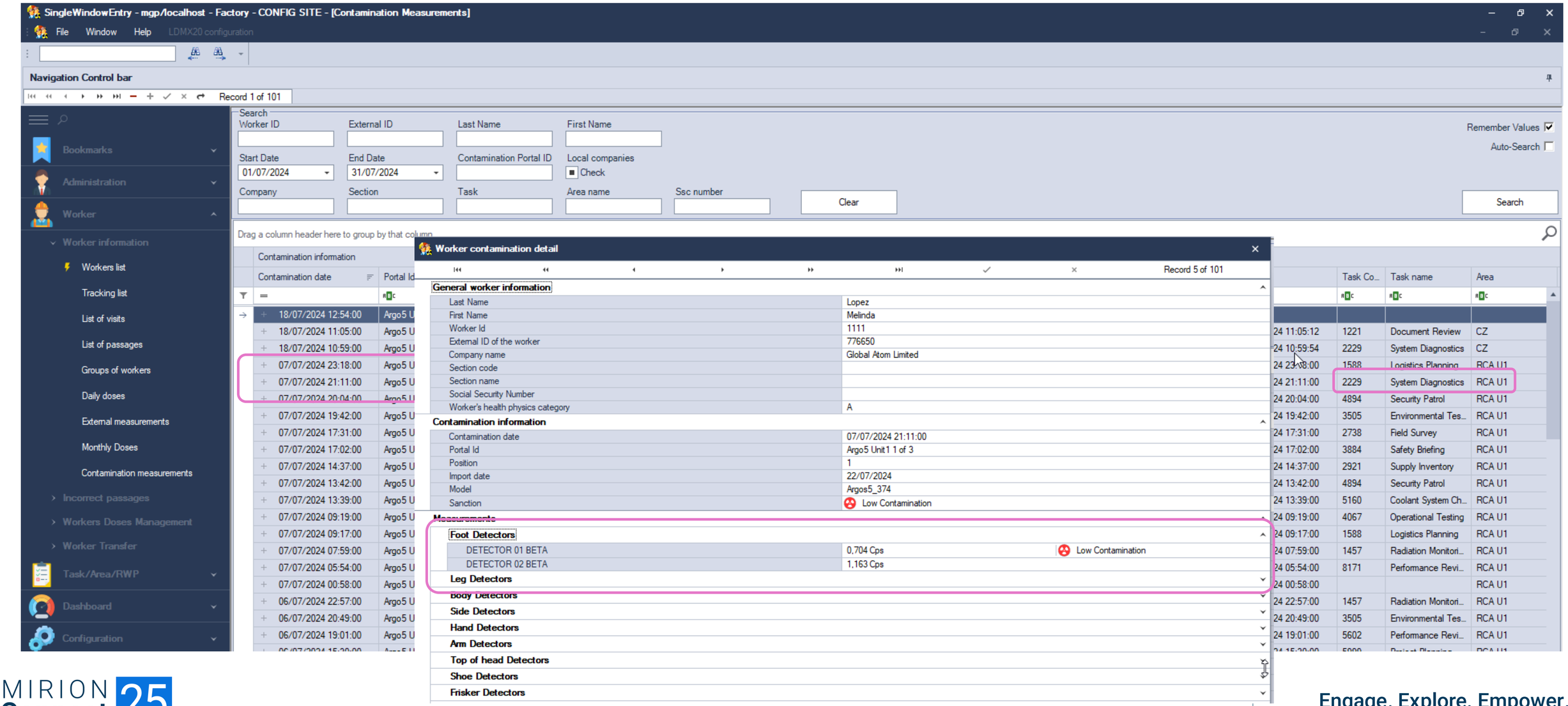
Body Monitors Measurements



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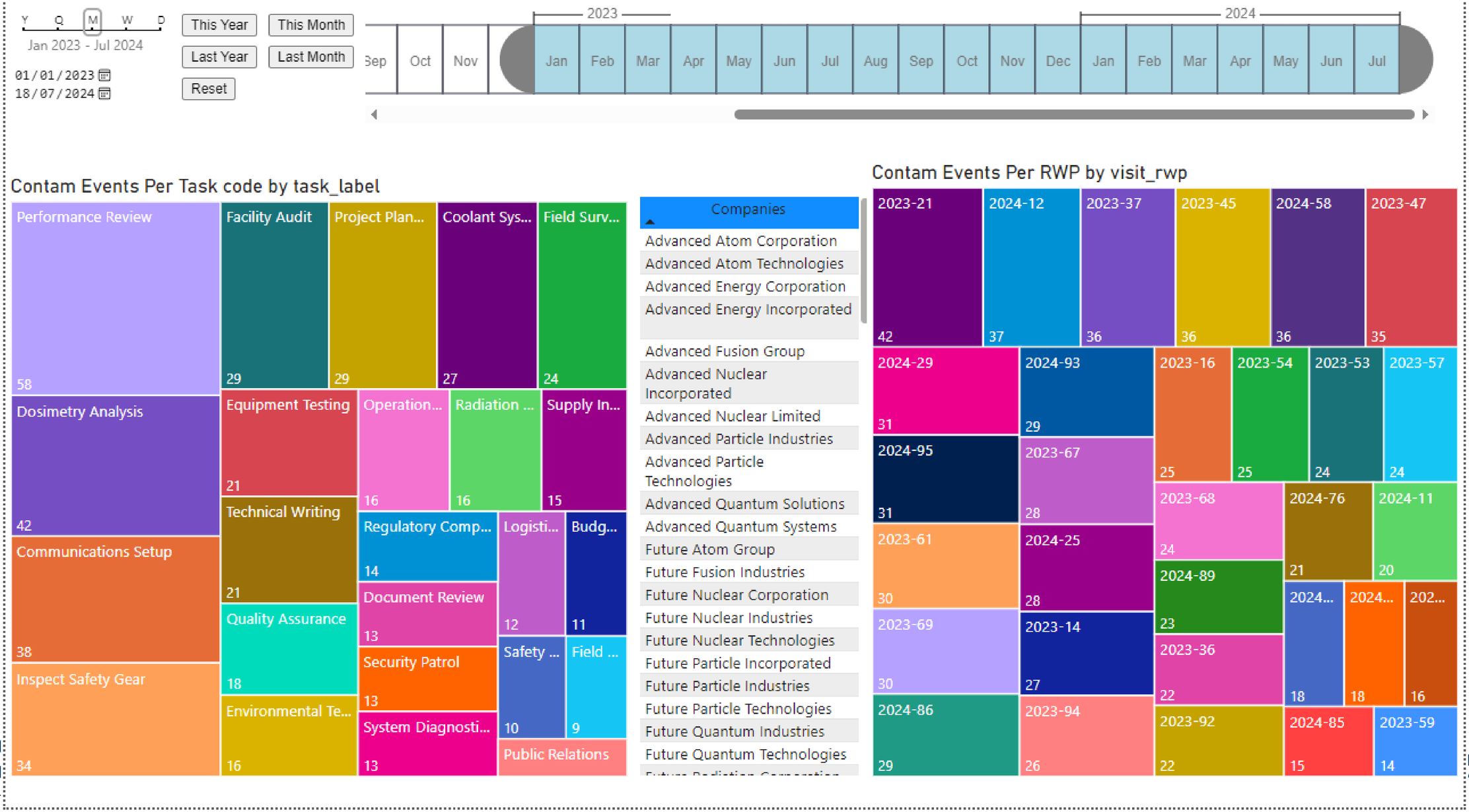
Body Monitors Measurements



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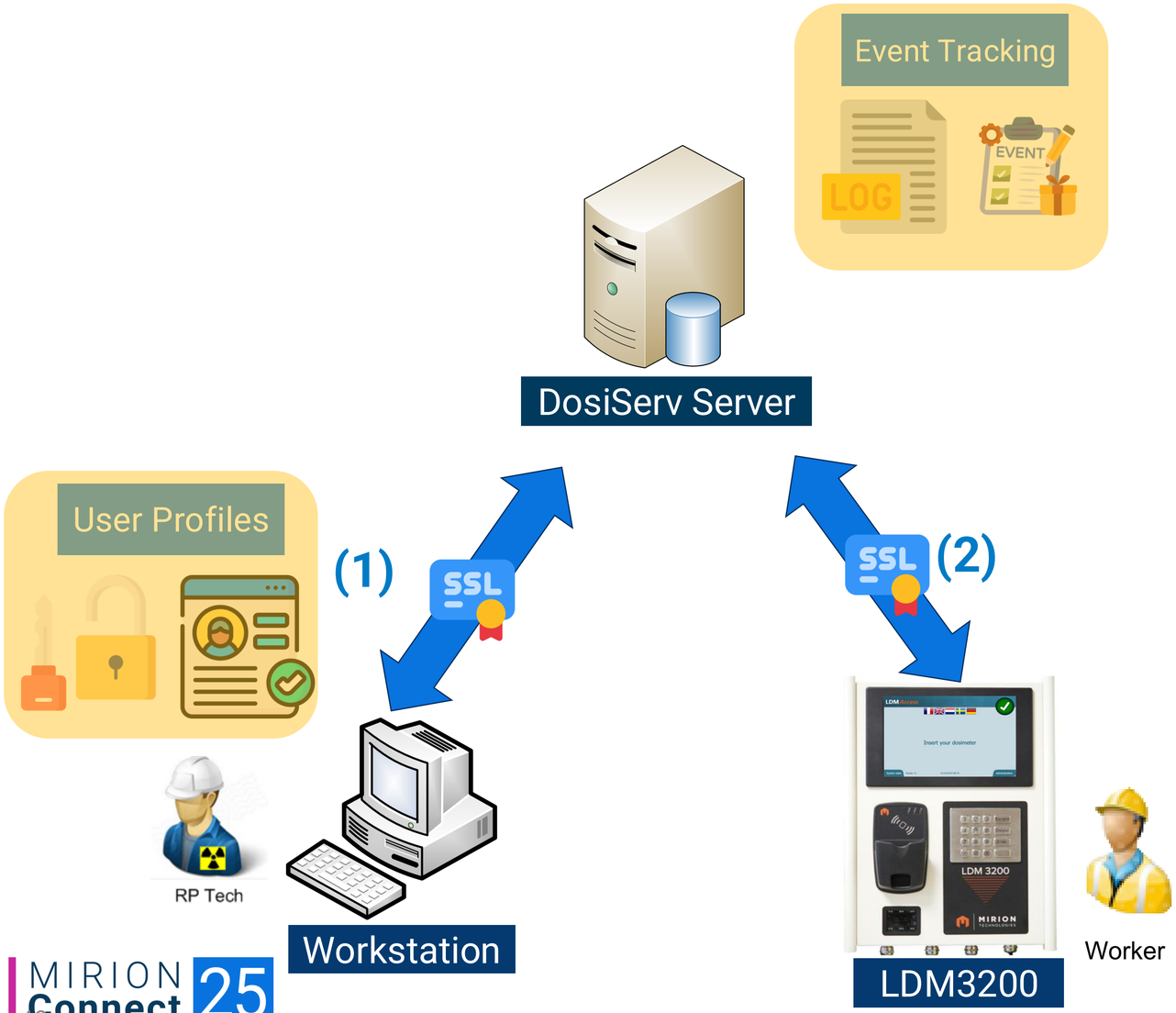
Cyber Security in DosiServ

➔ Cyber Security Concerns



Secured Protocols

- **DosiServ offers secured protocols:**
  - Between RP workstations and Server
  - Between Worker access control Kiosk and server

User Profiles

- DosiServ Client application embeds user rights management to guarantee users will authenticate and access to authorized data only

Event Tracking

- Several application logs, event logs and journal tables are available to keep track of all important information.

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DosiServ Customer Support

➔ Support

Customer Support

- Our team provides worldwide customer support.
- Maintenance contract subscription offers:
  - Support (Phone / email)
  - Corrective maintenance
  - Remote intervention
  - Software Upgrades
  - Yearly visit

Reader Equipment Support

- Support Contract to maintain reader equipment up-to-date (Operating System and SW)

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DosiServ

- Introduction
- DosiServ Ecosystem
- Access Control
  - From worker point of view
  - From HP perspective
- DosiServ Interface

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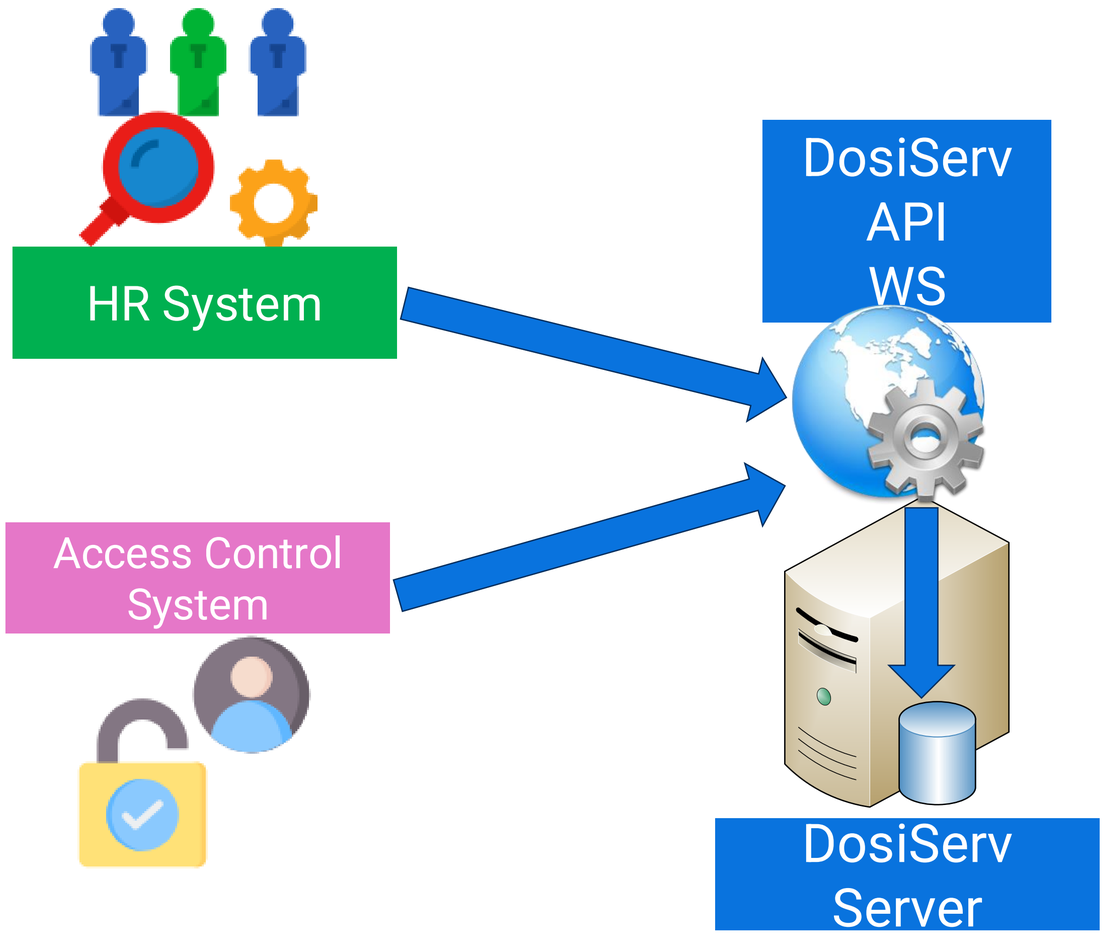
DosiServ Interfacing Capabilities

➔ Integration with Third-party Systems



Standard API

DosiServ provides a built-in API (Webservice) that allows maintaining DosiServ's database information.

- Data that can be updated:
  - Workers Information & Qualifications
  - Workers Doses
  - Workers Jobs Authorization
  - Jobs
  - Companies
  - …
- This API can be used to maintain DosiServ's data from customer's HR system or access control system.
- It is also an option to be able to import data into DosiServ (migration from a legacy system to DosiServ)

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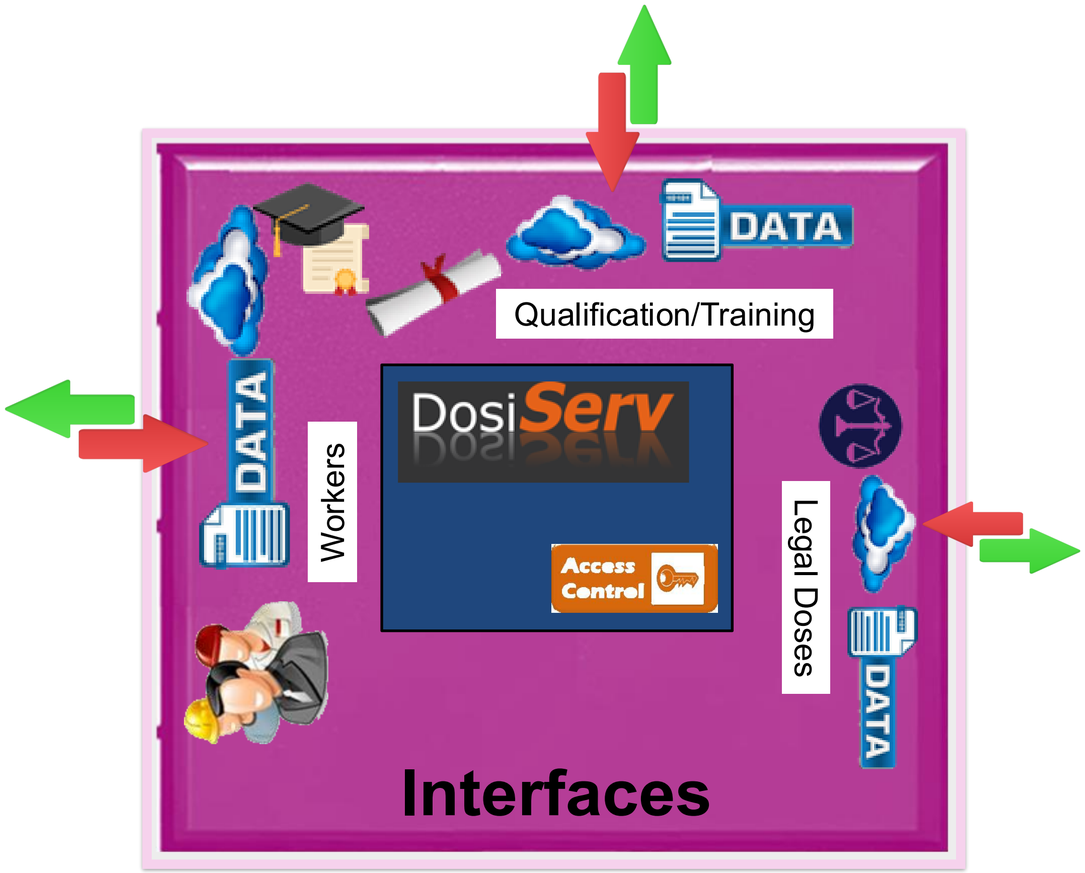
DosiServ Interfacing Capabilities

➔ Integration with Third-party Systems



DosiServ Integration Scenario

- **Standard DosiServ**
  - The standard version comes with a numerous number of so-called "interfaces with external systems"
  - These interface allows to "feed" the database with data. This can be done via :
    - Web Services
    - File transfer (file imports)

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DosiServ Interfacing Capabilities

➔ Integration with Third Party Systems

DosiServ Integration Scenario

- **What do we typically find in a "big" existing installation ? (i.e. NPP)**

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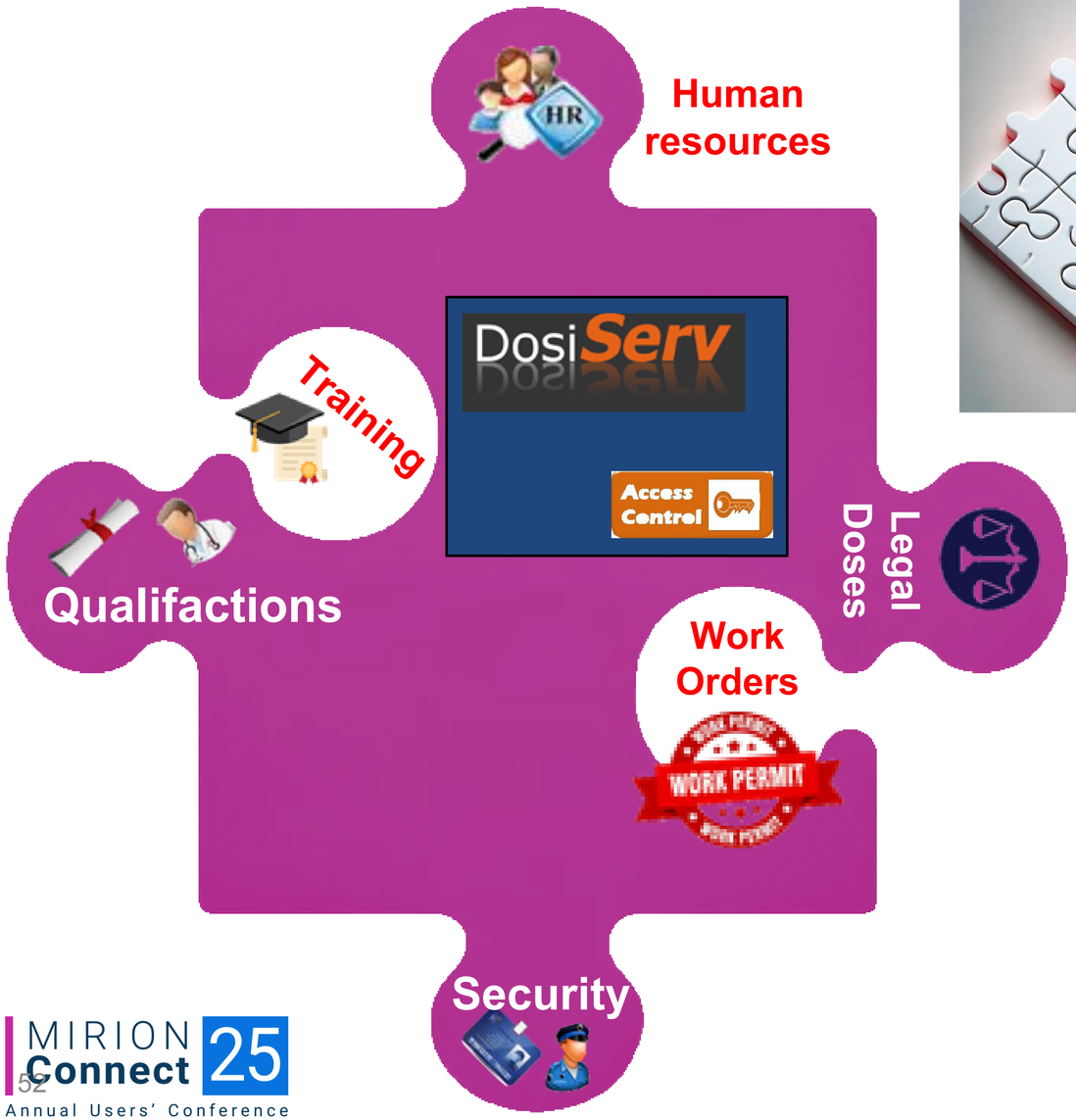
DosiServ Interfacing Capabilities

➔ Integration with Third Party Systems



DosiServ Solution

- Customize/adapt

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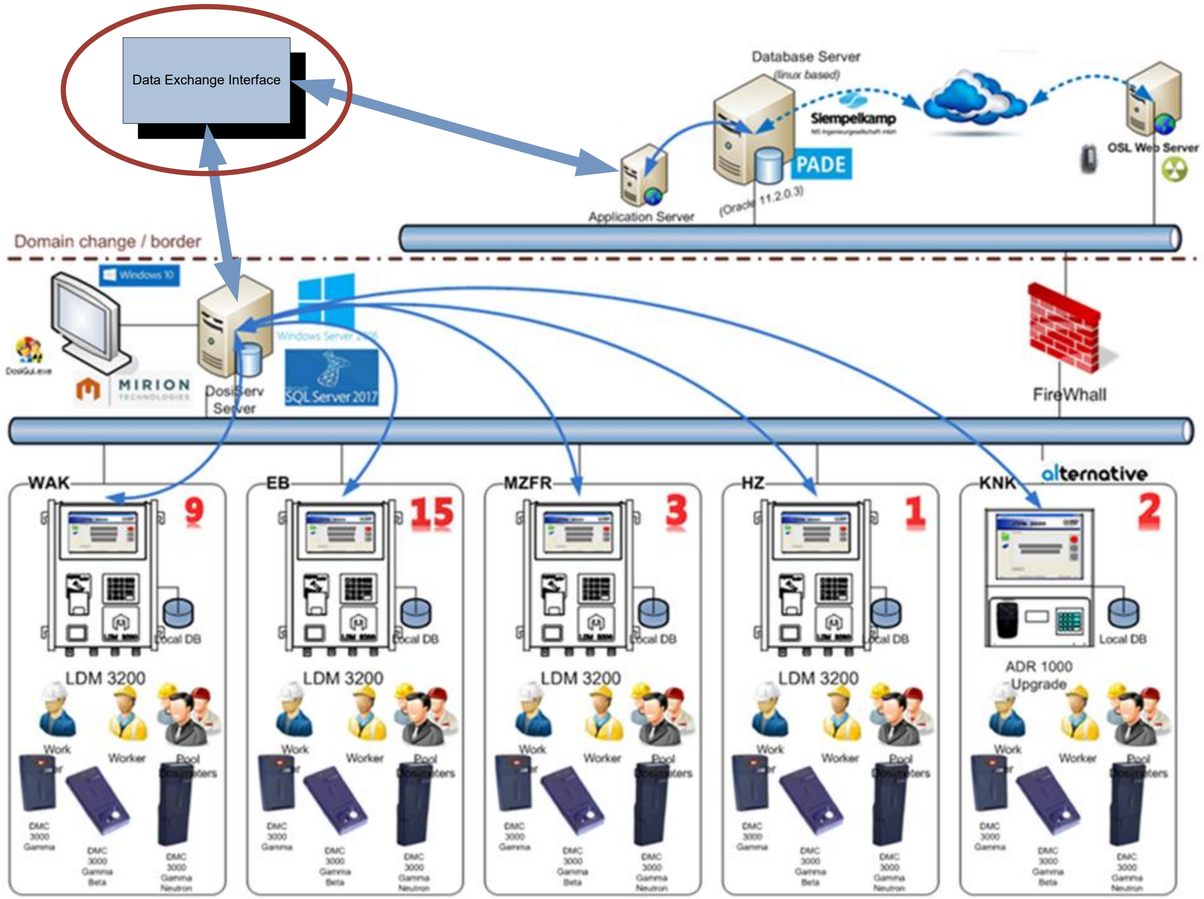
DosiServ Interface with Local DB

Interface

DosiServ has been deployed at KTE facility in Karlsruhe.

A Software Interface has been implemented between DosiServ and PADE, PADE being used as the main Dosimetry System and DosiServ being the interface between Access Control Readers and PADE.

The advantage is that it allows leveraging the DosiServ's supervision capabilities.



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DosiServ Interface with other DB

Interface

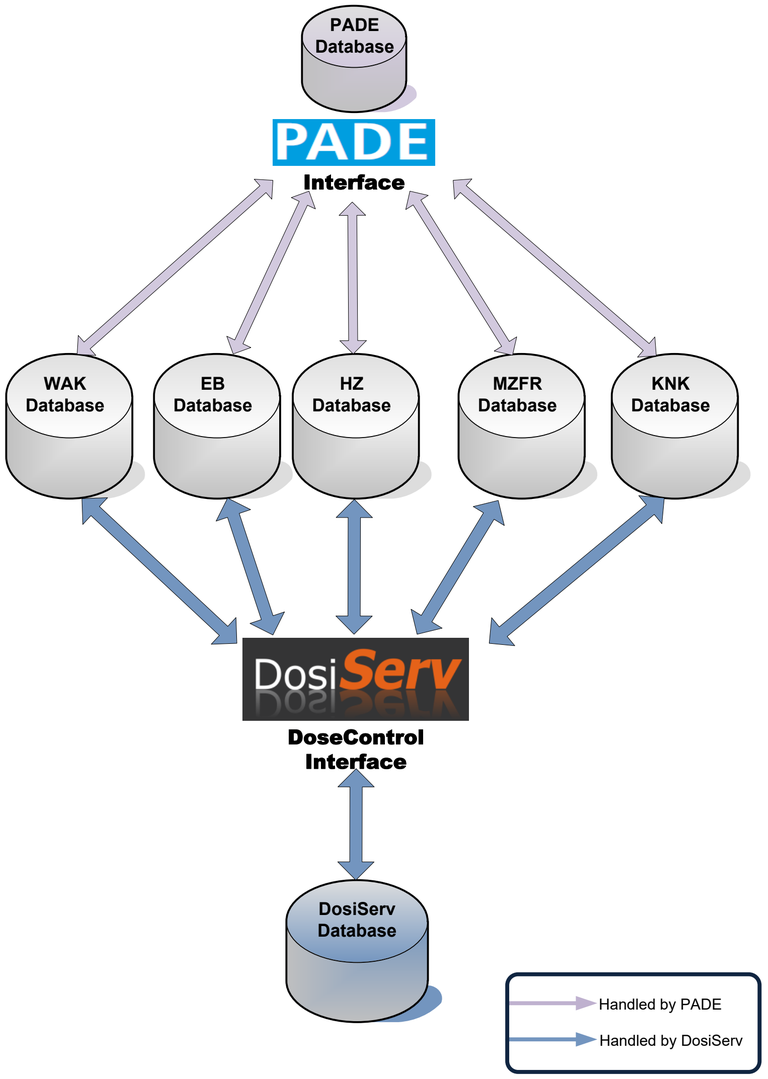
The interface allowed synchronization of both DosiServ and PADE databases.

Data update from PADE to DosiServ:

- Worker data (General information, Dose limits, message to be displayed to the worker…)
- Tasks
- Workers tasks’s authorizations
- Dosimeters information (serial numbers and calibration date)

Data update from DosiServ to PADE :

- Dose transactions



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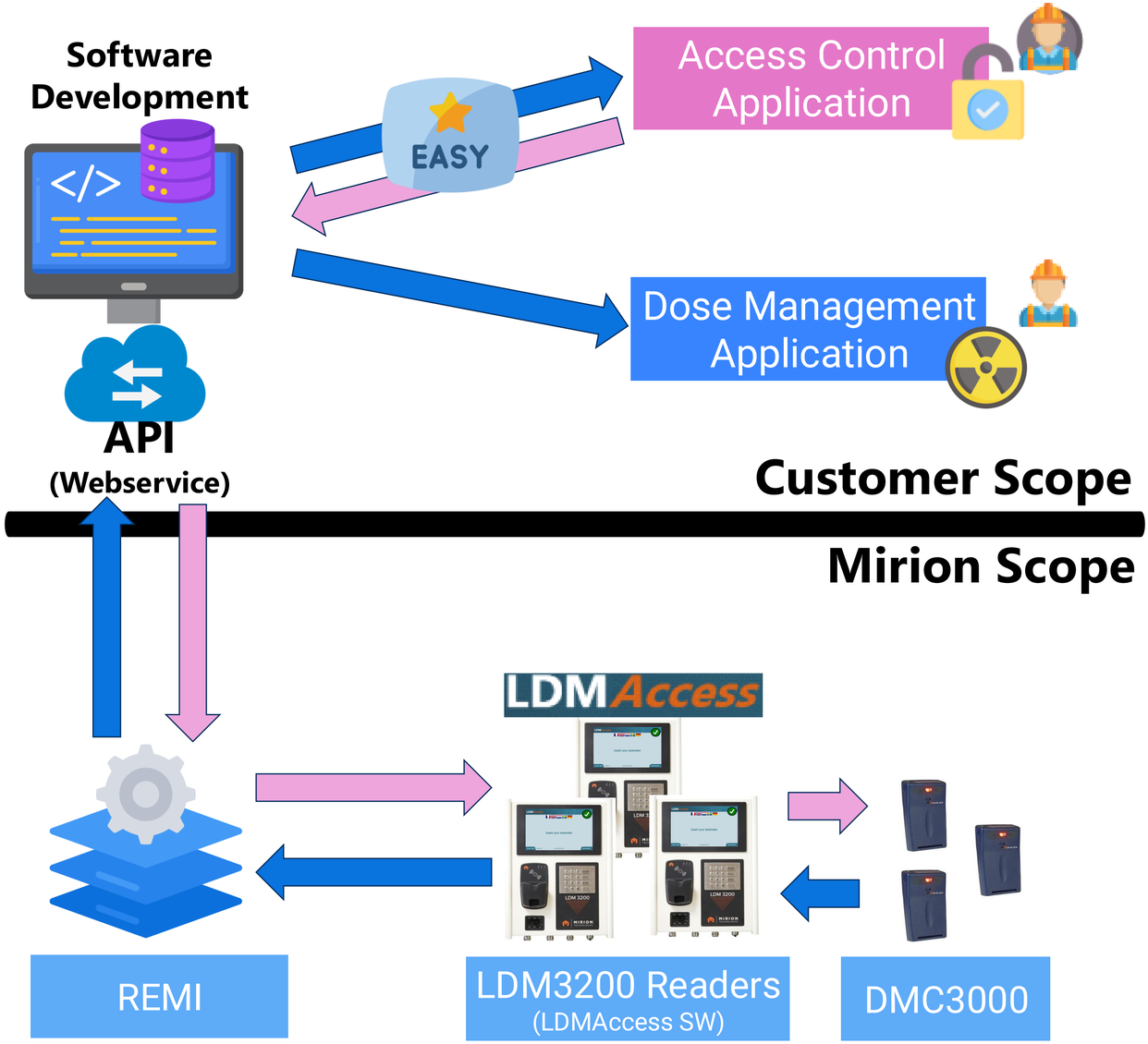
Building a Dosimetry System using REMI

REMI

REMI (Reader Ethernet Management Interface) is a Middleware that can be used to drive a network made of several Mirion's access point readers (LDM3200 / LDM1000).

- **Mirion Readers:**
  - Deal with DMC3000 communication using information provided by REMI (Alarms)
  - Send Collected Data to REMI
- **REMI:**
  - Handles Readers' incoming access requests and calls an API (Web Service) to get the access request verdict (Access granted/denied + Alarms)
  - Processes API (Web Service) responses and drives readers accordingly to program DMC3000.
- **Customer has to:**
  - Develop the Access Control API (Operations contract is provided by Mirion).
  - Develop its own application to consolidate data from DMC3000 (Dose management)



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DosiServ

- Introduction
- DosiServ Ecosystem
- Access Control
  - From worker point of view
  - From HP perspective
- DosiServ Interface
- New feature & Coming Up

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HSE Legal Approval

DosiServ has been legally approved in the UK

No need to passive (TLD) Dosimeters when system audited by regulator

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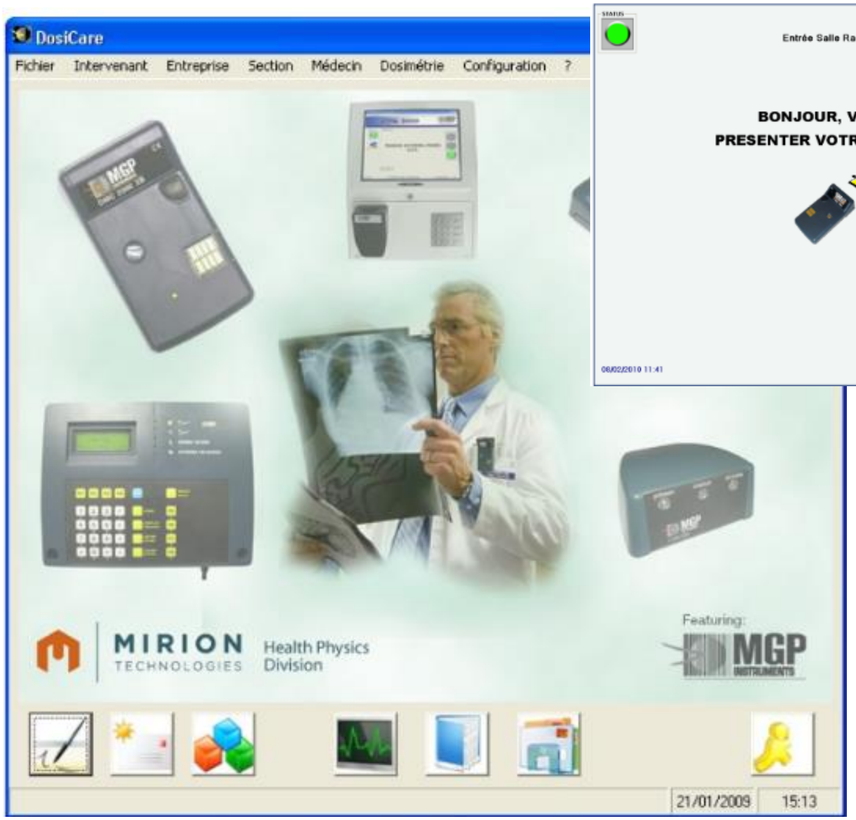
DosiServ Lite: Coming Soon



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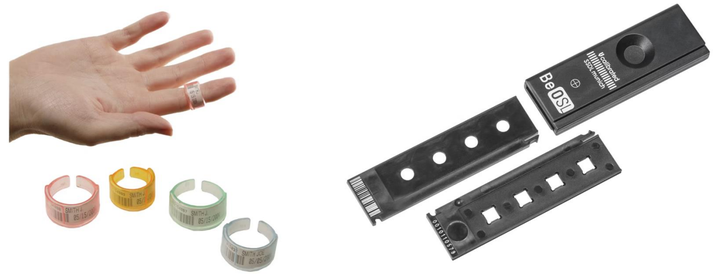
DosiServ 2026 : New Features

- LDM Access / WACS Bridge
- Nuclide library/Intakes management
- Form 4/5
- Workers Instrumentation verifications
- PII (Personal Identifiable Information)
- Document attachments

- Multi badging
- Survey management
- PADS interface
- Automatic recognition
- Source Control
- Many other……



- BeOSL
- Instadose

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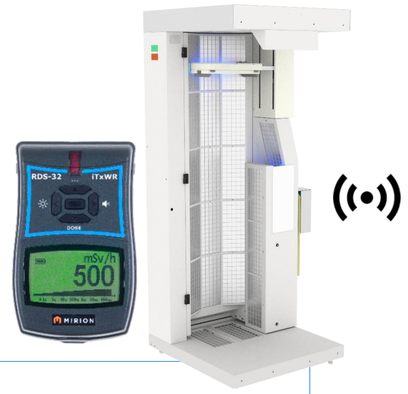
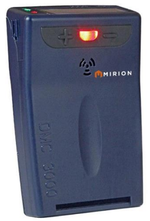
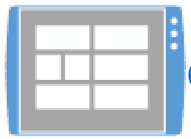
What’s next: Vision 2030



Other products
Health Physics



Dosimetry Line



Connectivity Management

ORION

Location
Outdoor / Indoor

Dosimetry
Platform

Telemetry Line
WRMNet Concept

Communication

Data Management
AI & Predictive Method

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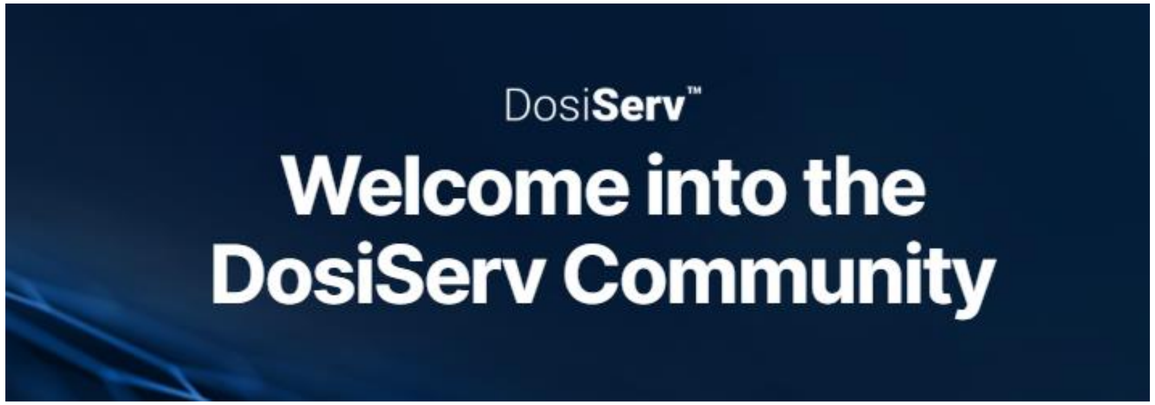
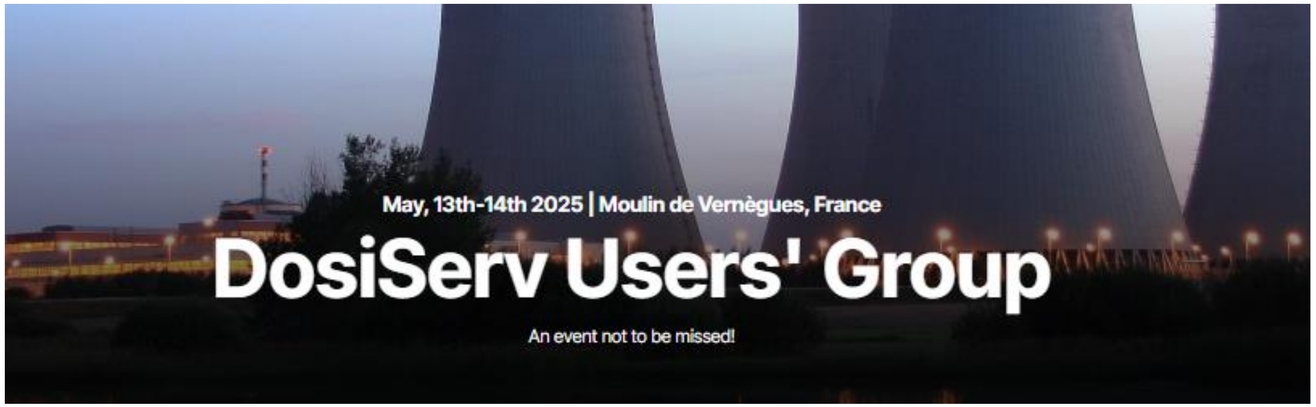
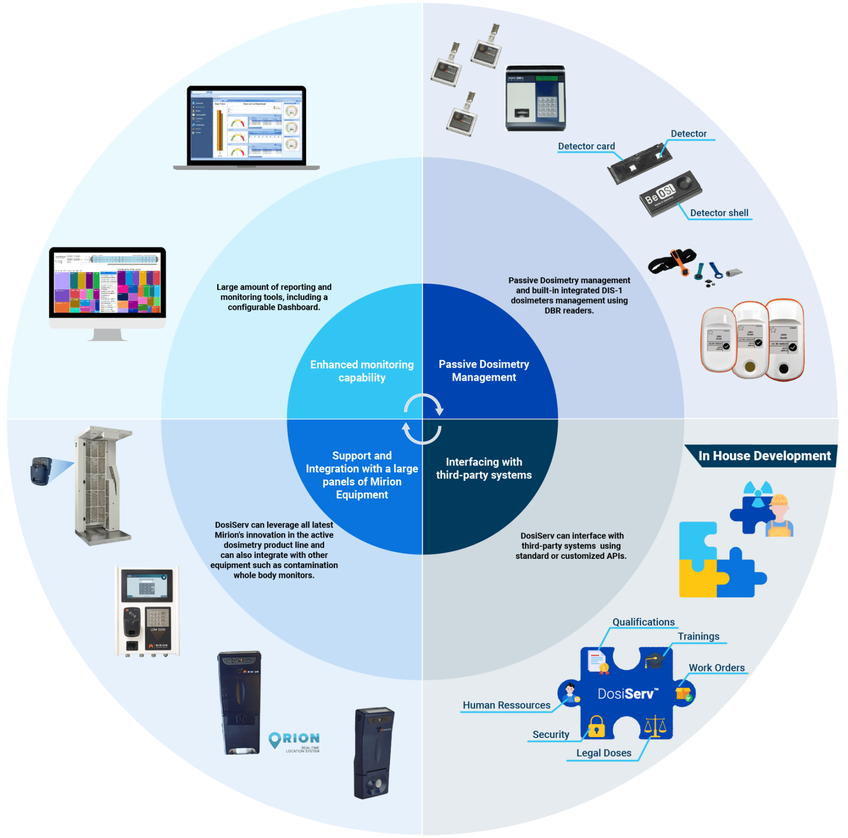
DosiServ Community





DosiServ Extended Features



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Conclusion

- **Mirion Dose Management SW: Best in class dose management SW**
  - More than 25 years of experience & customer feedback
  - Innovative & efficient, compliant with regulation

- **Solution robust & mature, up to date**
  - Cybersecurity compliant
  - Customizable, localizable, evolutive
  - Mirion support expertise & reactivity

- **Migration / Transition to DosiServ Easiest**
  - Great feedback & experiences
  - Period of 6/8 months

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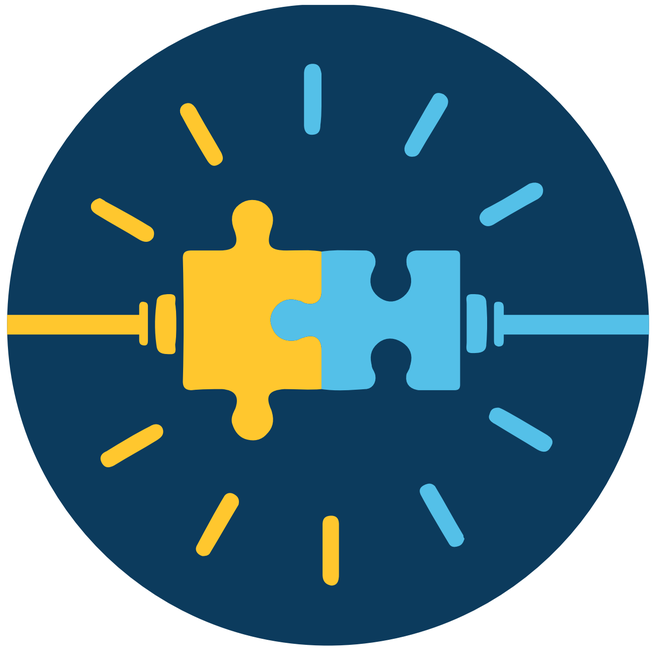
DosiServ™



The Power of Partnership.

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DosiServ

Question

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Additional information about DosiServ Features

The following slides will not be detailed during the DosiServ meeting but can provide more details to whoever would like to go deeper into DosiServ capabilities.

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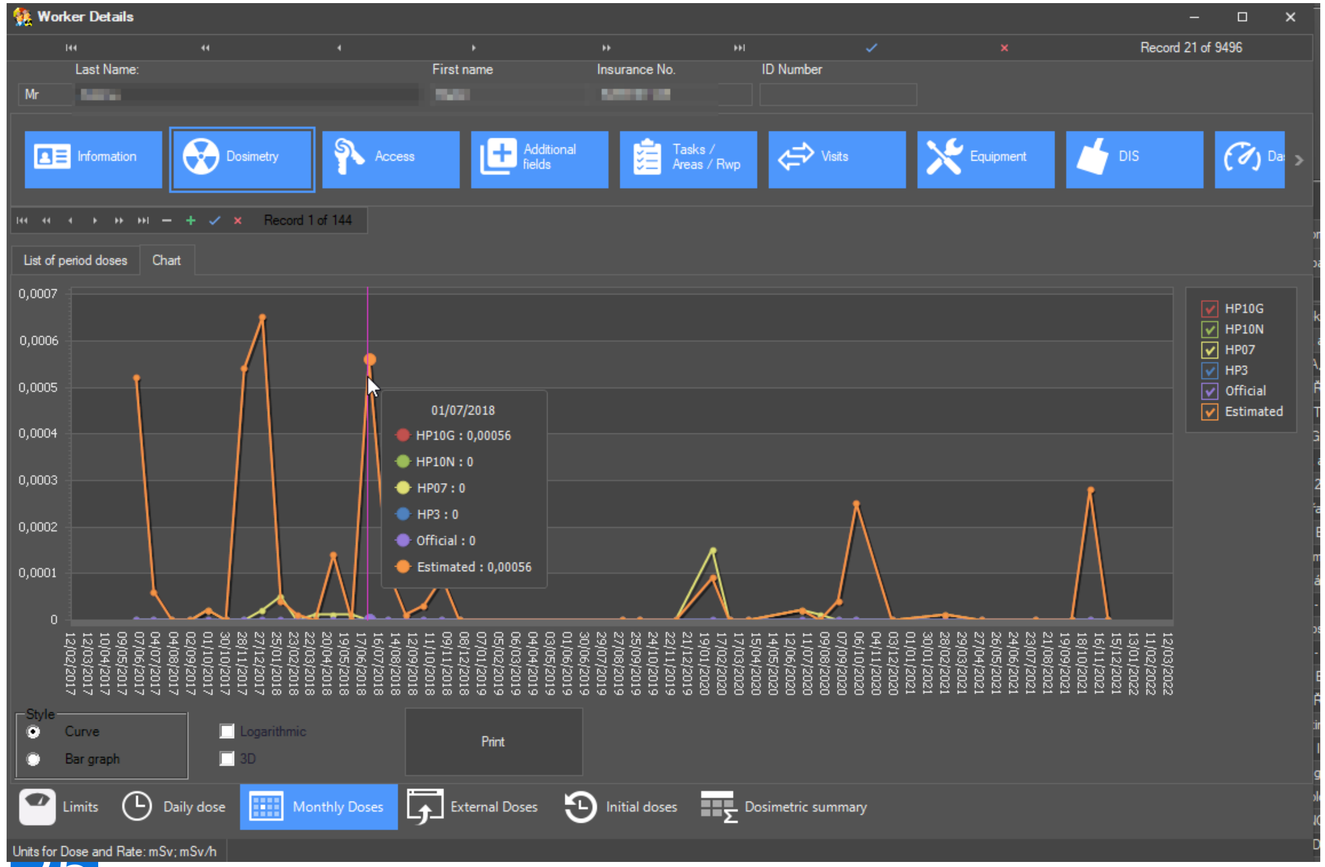
From the Health Physics perspective

➔Reporting/monitoring

Individuals Monitoring

DosiServ offers several features providing an at the glance vision on individual important information (dosimetry status, qualifications status, access blocked…).



Worker Daily doses / Monthly doses charts

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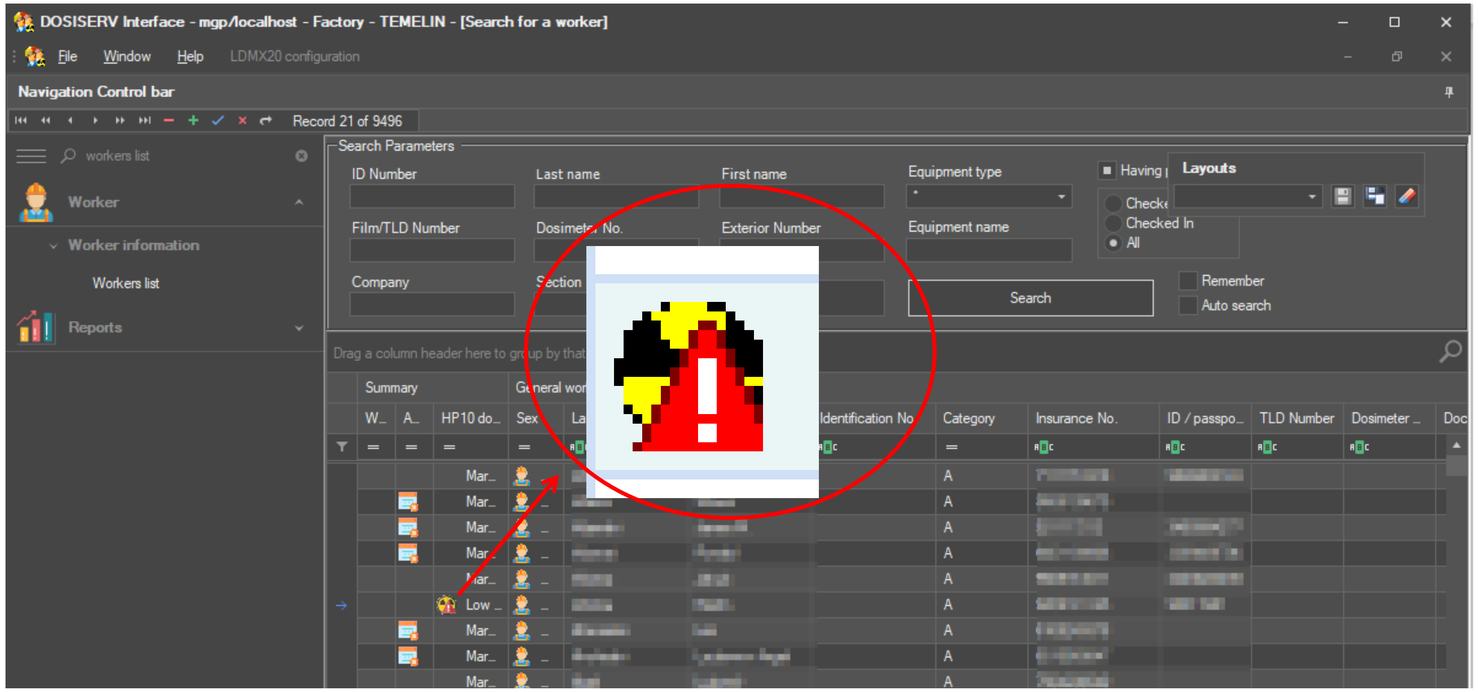
DosiServ Reporting / Monitoring

Individual Monitoring

DosiServ offers several features providing an at the glance vision on individual important information (dosimetry status, qualifications status, access blocked…).



"Low Margin" and "Qualifications outdated" icons on the workers list screen.

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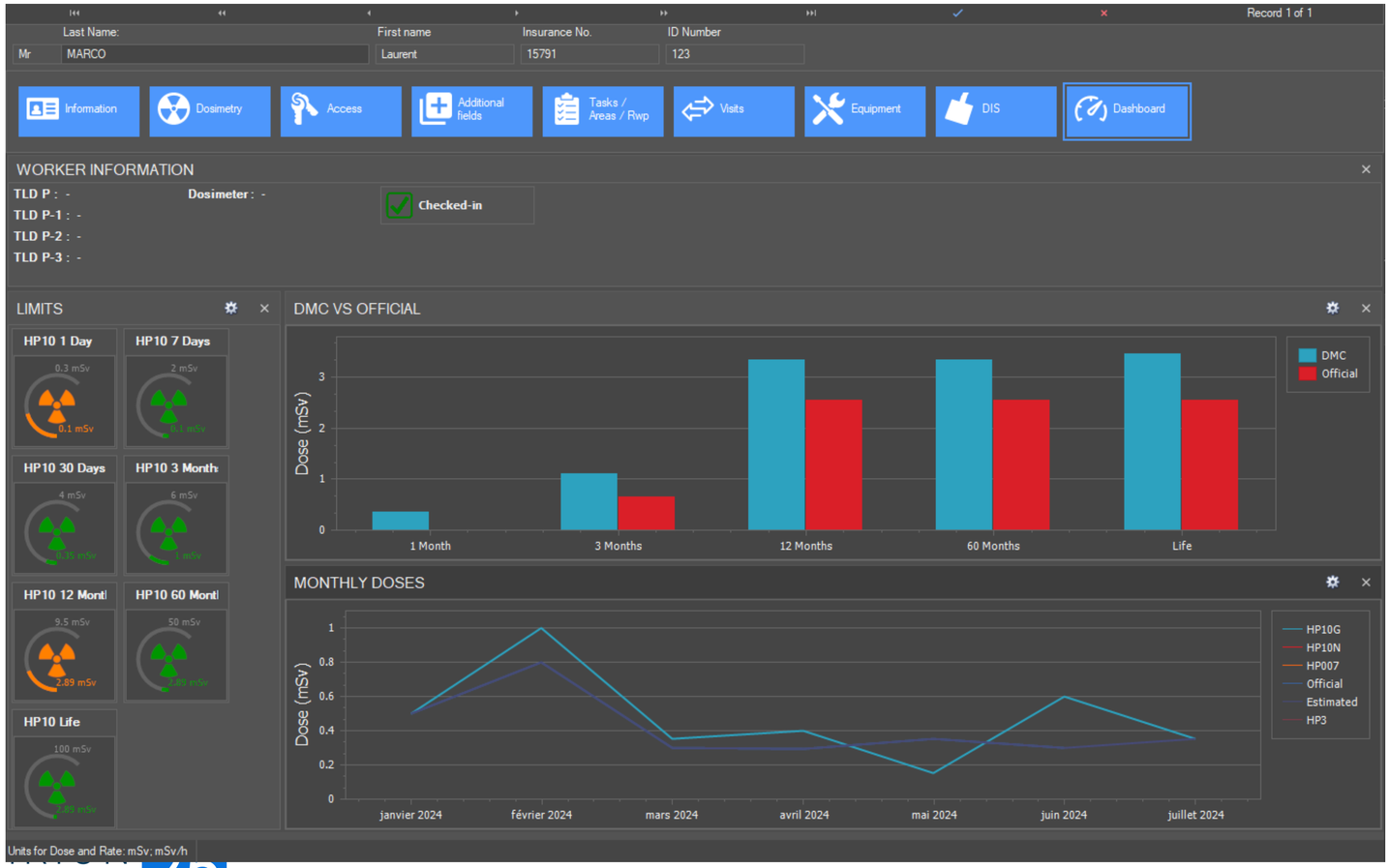
DosiServ Reporting / Monitoring

Individual Monitoring

DosiServ offers several features providing an at the glance vision on individual important information (dosimetry status, qualifications status, access blocked…).



Dashboard view in worker details screen

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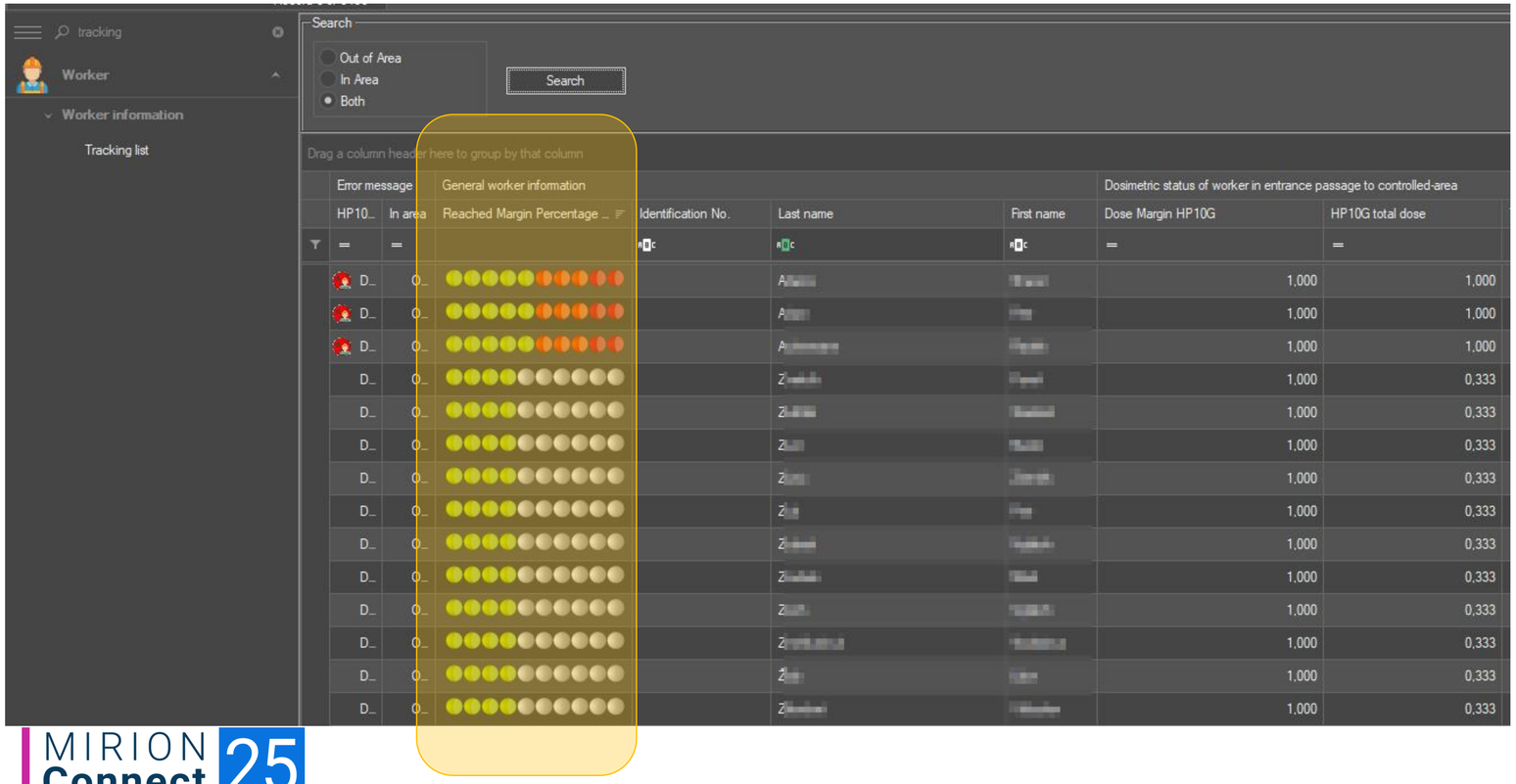
DosiServ Reporting / Monitoring

Individual Monitoring

DosiServ offers several features providing an at the glance vision on individual important information (dosimetry status, qualifications status, access blocked…).



Cumulated Dose vs Dose Limit indicators in the Workers list screen

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DosiServ Reporting / Monitoring

MIRION TECHNOLOGIES Health Physics Division

Monitoring

Limit : All
Percentage : 80,00
Sliding Dose: No
Local Company: Both
Checked In Both

RadWorker5	Mr	Mirion Technolo B	Day Dose	1 Days %	7 Days Dose	7 Days %	30 Days Dose	30 Days %	3 P Dose	3 P %
			0,01	4,00	0,25	100,00	0,25	50,00	0,25	16,67
			1 Year DOS	1 Year %	5 Years Dose	5 Years %	Life dose	Life %		
			0,25	4,17	0,25	0,83	0,25	0,50		

17/07/2017 11:44:39 License granted to [redacted]
Units used in this report Dose: mSv - Rate mSv/h - Duration: HH:MM 1/1

Individual Monitoring

DosiServ offers several features providing an at the glance vision on individual important information (dosimetry status, qualifications status, access blocked…).

Standard built-in Reports like the monitoring report that displays workers who are close or who reached a dose limit

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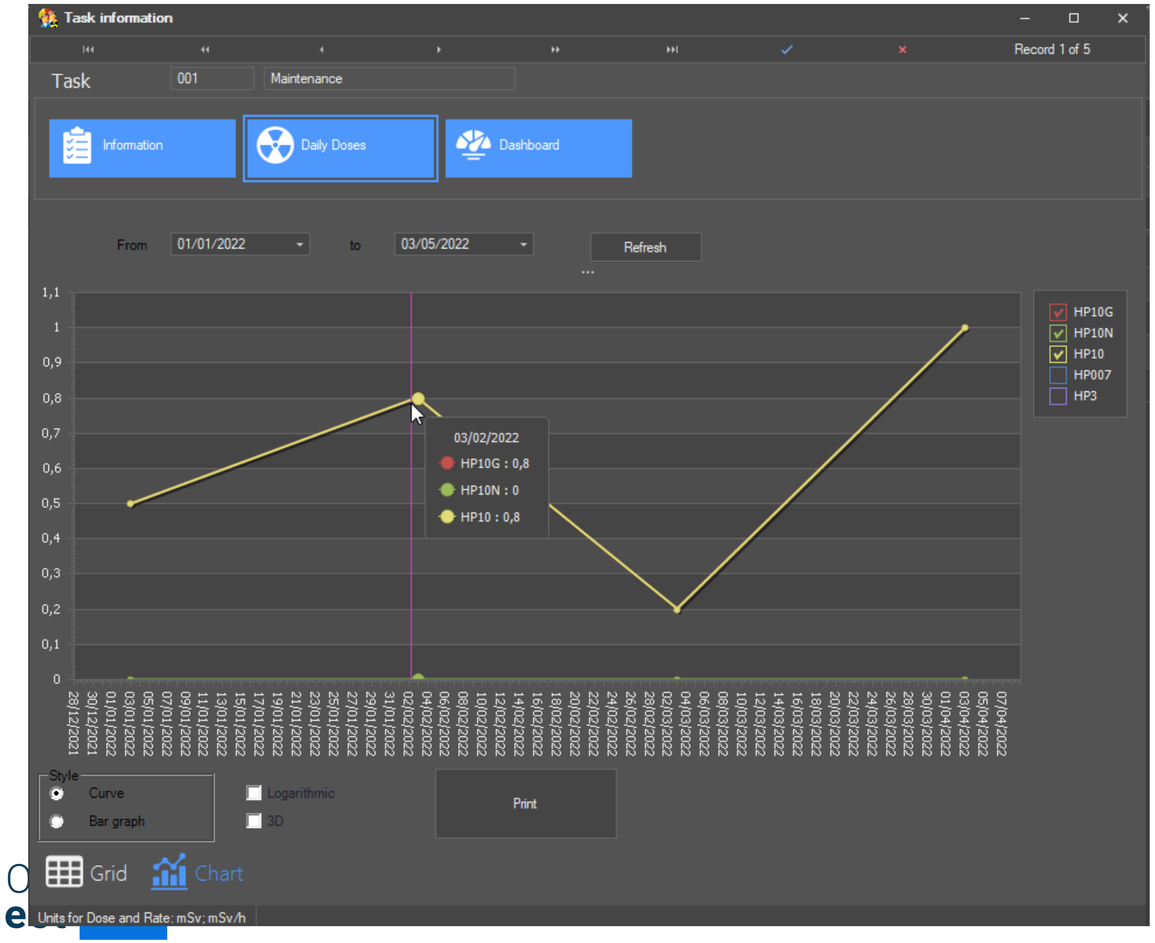
DosiServ Reporting / Monitoring

Collective Monitoring

DosiServ offers several screens providing an at the glance vision on collective important information (RWP/Job dosimetry, area dosimetry…).

RWP and Job details screens display the collective daily doses



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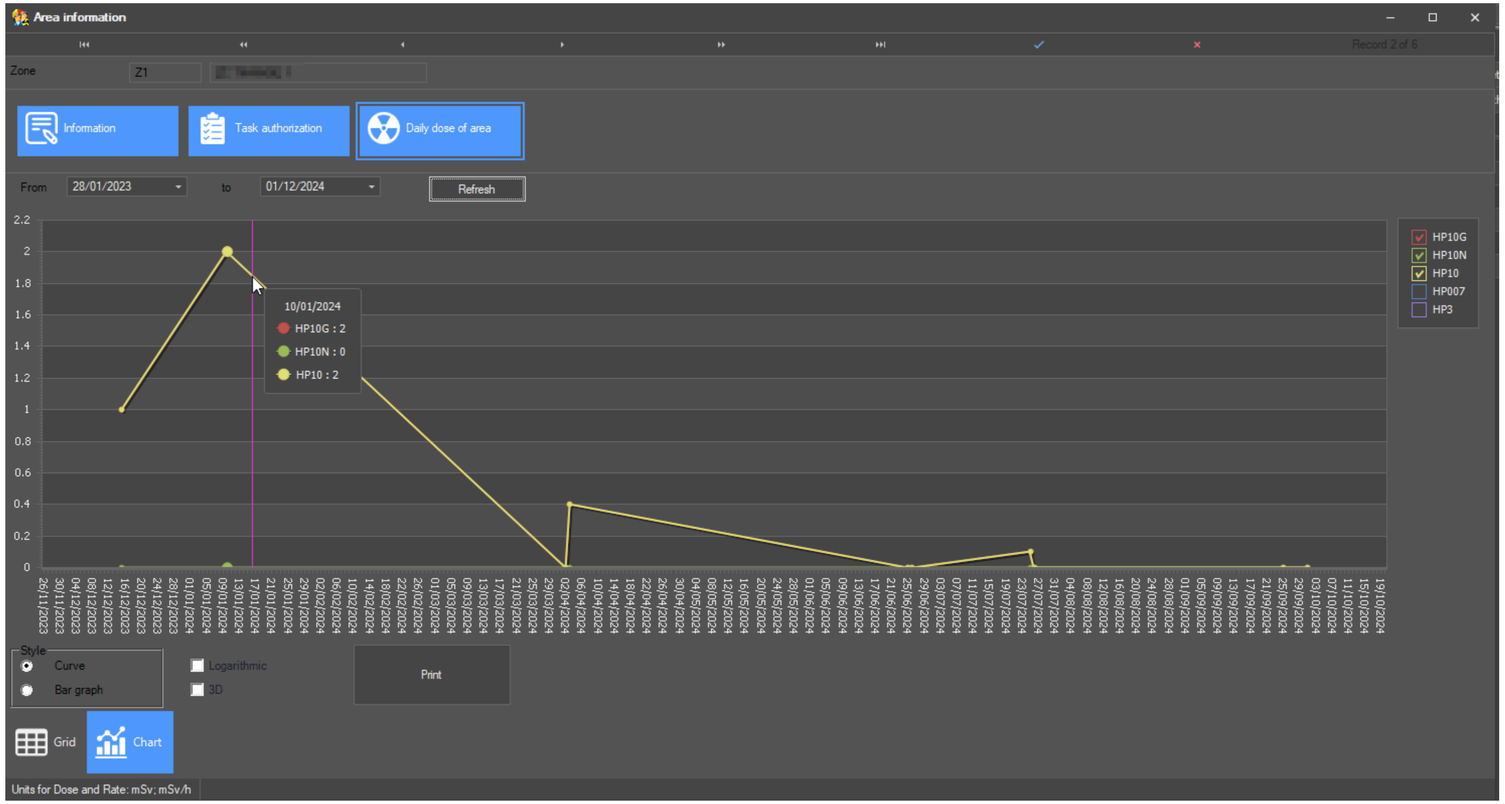
DosiServ Reporting / Monitoring

Collective Monitoring

DosiServ offers several screens providing an at the glance vision on collective important information (RWP/Job dosimetry, area dosimetry…).



Area details screen displays the collective daily doses

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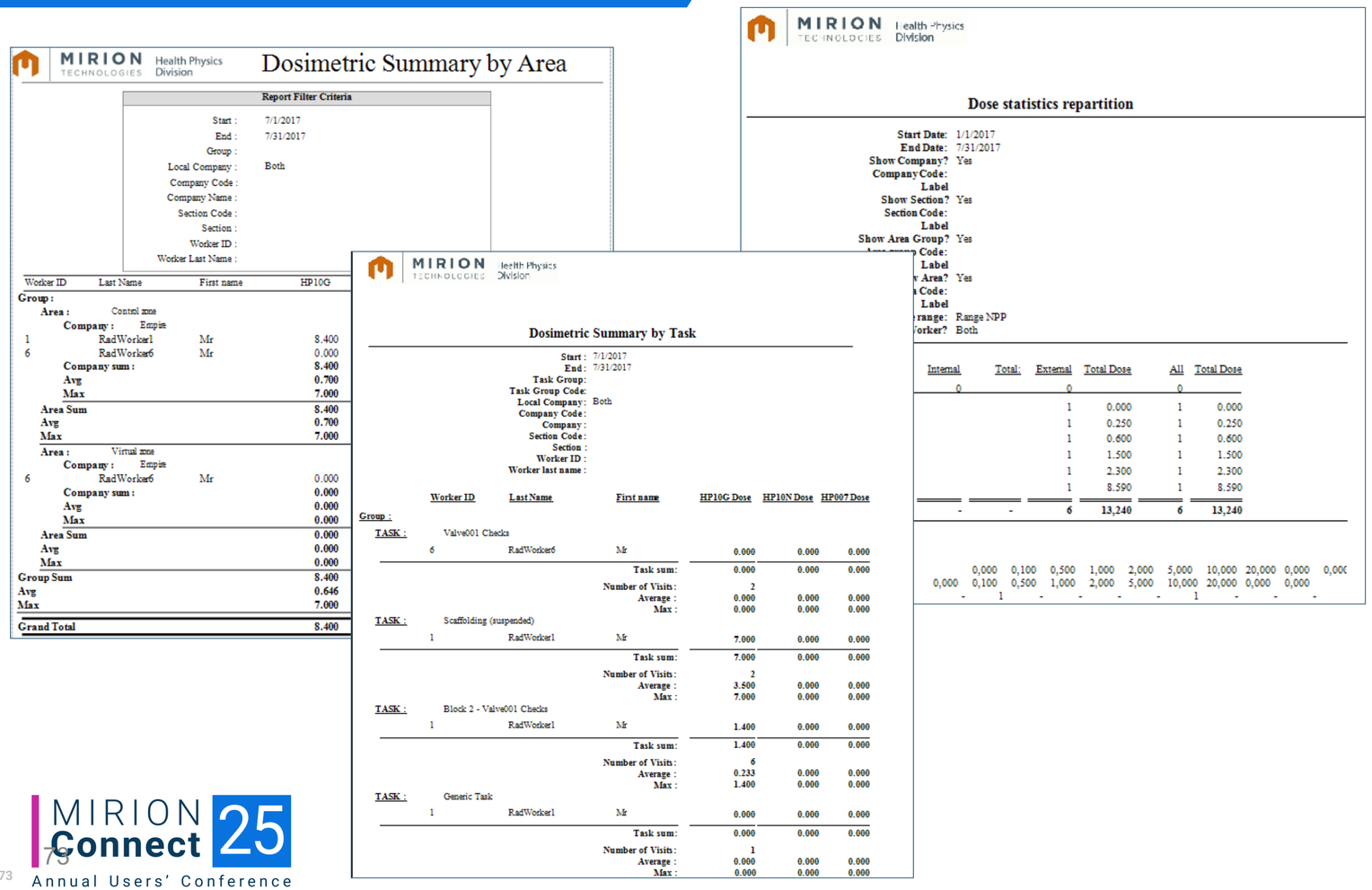
DosiServ Reporting / Monitoring

Collective Monitoring

DosiServ offers several screens providing an at the glance vision on collective important information (RWP/Job dosimetry, area dosimetry…).

Several built-in reports provide collective information (Dose summary by Area,Task or RWP, Dose statistics repartition…)



MIRION TECHNOLOGIES Health Physics Division

Dosimetric Summary by Area

Report Filter Criteria	
Start :	7/1/2017
End :	7/31/2017
Group :	
Local Company :	Both
Company Code :	
Company Name :	
Section Code :	
Section :	
Worker ID :	
Worker Last Name :	

Worker ID	Last Name	First name	HP10G
Group :			
Area :	Control zone		
Company :	Empire		
1	RadWorker1	Mr	8.400
6	RadWorker6	Mr	0.000
Company sum :			**8.400**
Avg			**0.700**
Max			**7.000**
Area Sum			**8.400**
Avg			**0.700**
Max			**7.000**
Area :	Virtual zone		
Company :	Empire		
6	RadWorker6	Mr	0.000
Company sum :			**0.000**
Avg			**0.000**
Max			**0.000**
Area Sum			**0.000**
Avg			**0.000**
Max			**0.000**
Group Sum			**8.400**
Avg			**0.646**
Max			**7.000**
Grand Total			**8.400**

MIRION TECHNOLOGIES Health Physics Division

Dosimetric Summary by Task

Start :	7/1/2017
End :	7/31/2017
Task Group :	
Task Group Code :	
Local Company :	Both
Company Code :	
Company :	
Section Code :	
Section :	
Worker ID :	
Worker last name :	

Worker ID	Last Name	First name	HP10G Dose	HP10N Dose	HP007 Dose
Group :					
TASK :	Valve001 Checks				
6	RadWorker6	Mr	0.000	0.000	0.000
		Task sum:	0.000	0.000	0.000
		Number of Visits:	2		
		Average :	0.000	0.000	0.000
		Max :	0.000	0.000	0.000
TASK :	Scaffolding (suspended)				
1	RadWorker1	Mr	7.000	0.000	0.000
		Task sum:	7.000	0.000	0.000
		Number of Visits:	2		
		Average :	3.500	0.000	0.000
		Max :	7.000	0.000	0.000
TASK :	Block 2 - Valve001 Checks				
1	RadWorker1	Mr	1.400	0.000	0.000
		Task sum:	1.400	0.000	0.000
		Number of Visits:	6		
		Average :	0.233	0.000	0.000
		Max :	1.400	0.000	0.000
TASK :	Generic Task				
1	RadWorker1	Mr	0.000	0.000	0.000
		Task sum:	0.000	0.000	0.000
		Number of Visits:	1		
		Average :	0.000	0.000	0.000
		Max :	0.000	0.000	0.000

MIRION TECHNOLOGIES Health Physics Division

Dose statistics repartition

Start Date:	1/1/2017
End Date:	7/31/2017
Show Company?	Yes
Company Code:	
Label	
Show Section?	Yes
Section Code:	
Label	
Show Area Group?	Yes
Code:	
Label	
Area?	Yes
Code:	
Label	
range:	Range NPP
Worker?	Both

Internal	Total:	External	Total Dose	All	Total Dose
0		0		0	
		1	0.000	1	0.000
		1	0.250	1	0.250
		1	0.600	1	0.600
		1	1.500	1	1.500
		1	2.300	1	2.300
		1	8.590	1	8.590
-	-	6	13,240	6	13,240

0,000	0,000 - 0,100	0,100 - 0,500	0,500 - 1,000	1,000 - 2,000	2,000 - 5,000	5,000 - 10,000	10,000 - 20,000	20,000 - 0,000	0,000 - 0,000	0,000
	1					1				

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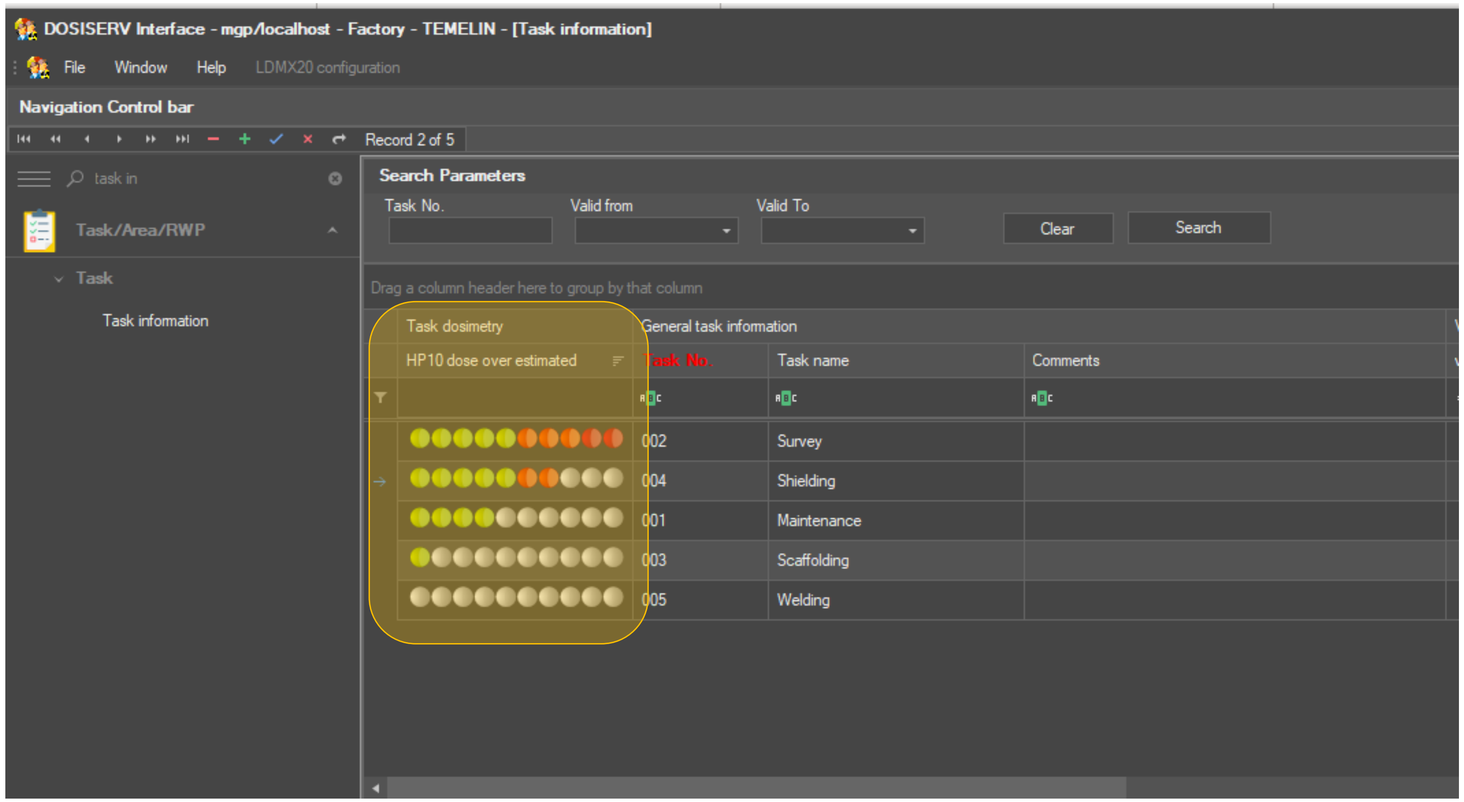
DosiServ Reporting / Monitoring

Collective Monitoring

DosiServ offers several screens providing an at the glance vision on collective important information (RWP/Job dosimetry, area dosimetry…).



Dose Limit VS Cumulated dose indicators in the RWP and Task list screens

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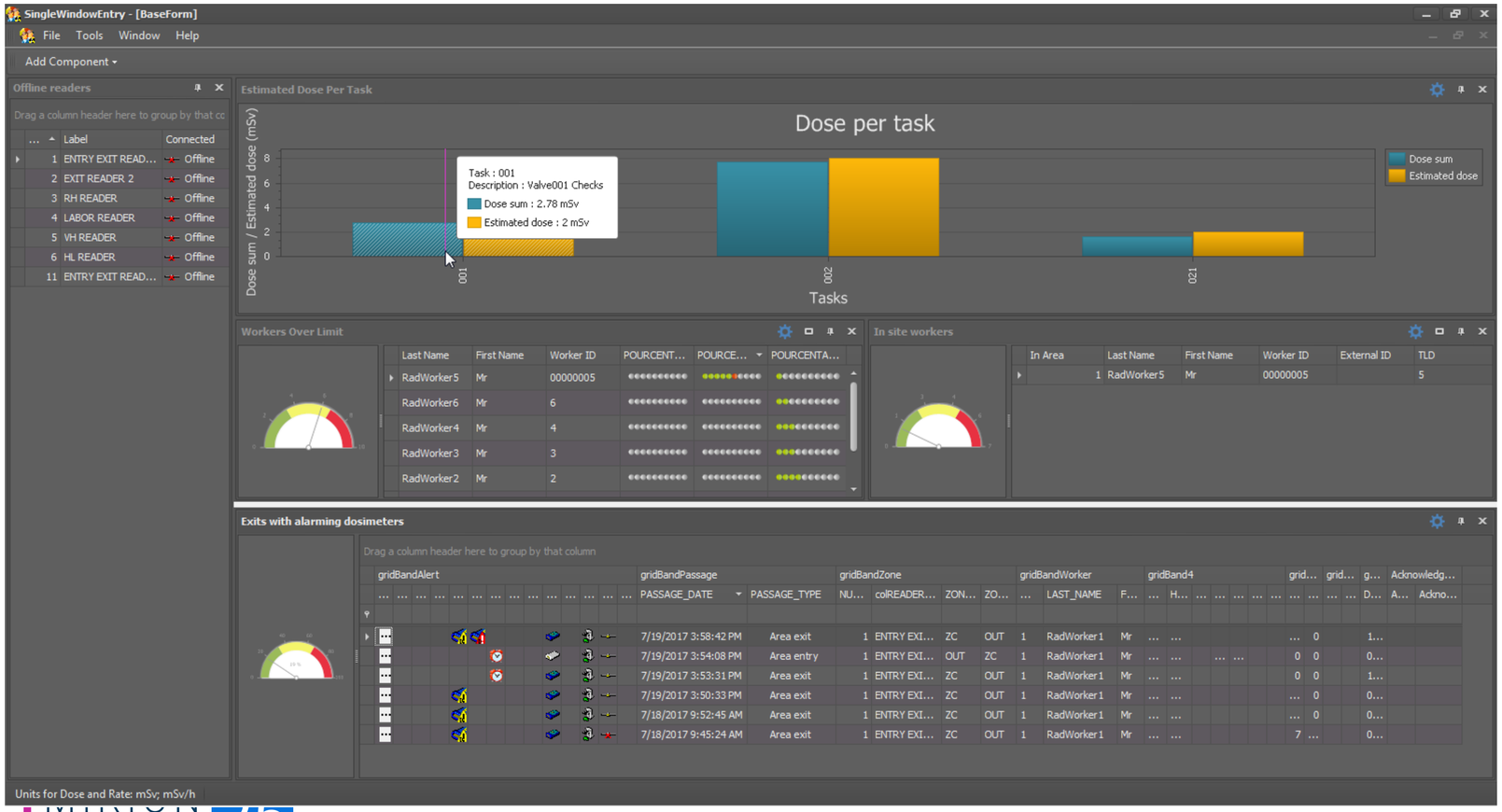
DosiServ Reporting / Monitoring

Dashboard

The Dashboard application provides both individual and collective information.

It offers an overview of the system and highlights the important items to be monitored.



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