

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

Agenda

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

DosiServ – Part 3

- DosiServ & Legal dose

Main concept about “Estimated” Dose and Legal Dose in DosiServ

Measure definitions

DOSISERV Interface - mgp/localhost - Factory - CONFIG SITE - [Measurement definitions configuration]

File Window Help LDMX20 configuration

Drag a column header here to group by that column

General dose type information			Measure options		
Code	Name	Dose type	Enters electronic dose	Official	Estimated dose
ABC	ABC	=	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TLD G	Passive TLD Gamma ...	Deep dose Gamma	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TLG N	Passive Neutron Dose	Deep dose Neutron	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Worker information

External measurements

Contamination

Workers Doses

TLDMeasurementImporter

External Measures Import

Configuration

Miscellaneous

Measurement definitions configuration

TLD L	Passive TLD Lens of e...	Eye Lens dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SDE_WB_EXT	NRC SDE_WB Off Pre...	Skin dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIS_HP007	DIS HP007 Measure	Skin dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WINTERNAL	Internal measure NON ...	Internal dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ID VUE	Instadose Gamma	Deep dose Gamma	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
INTAKE	Intake	Internal dose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EXTR	Extremity Dose	Extremity dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EDEX_EXT	NRC EDEX Off Premis...	Deep dose Gamma	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CEDE_EXT	NRC CEDE Off Premis...	Internal dose	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TRI	TRITIUM	Deep dose Gamma	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LDE_EXT	NRC LDE Off Premise ...	Eye Lens dose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BETA_TLD	NRC SDE_WB Measu...	Skin dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CDE_EXT	NRC CDE Off Premise ...	Deep dose Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CEDE_LOCAL	NRC CEDE On Premis...	Deep dose Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIS_HP10	DIS HP10 Measure	Deep dose Gamma	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MND	My New Dose	Other dose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Participate to estimated dose
→ If Deep Dose Gamme then will « compete »
with Electronic

Participate to Official dose
--> If checked AND Deep dose Gamma
THEN will « compete » with Electronic

Main concept about “Estimated” Dose and Legal Dose in DosiServ

What dose “compete” means ?

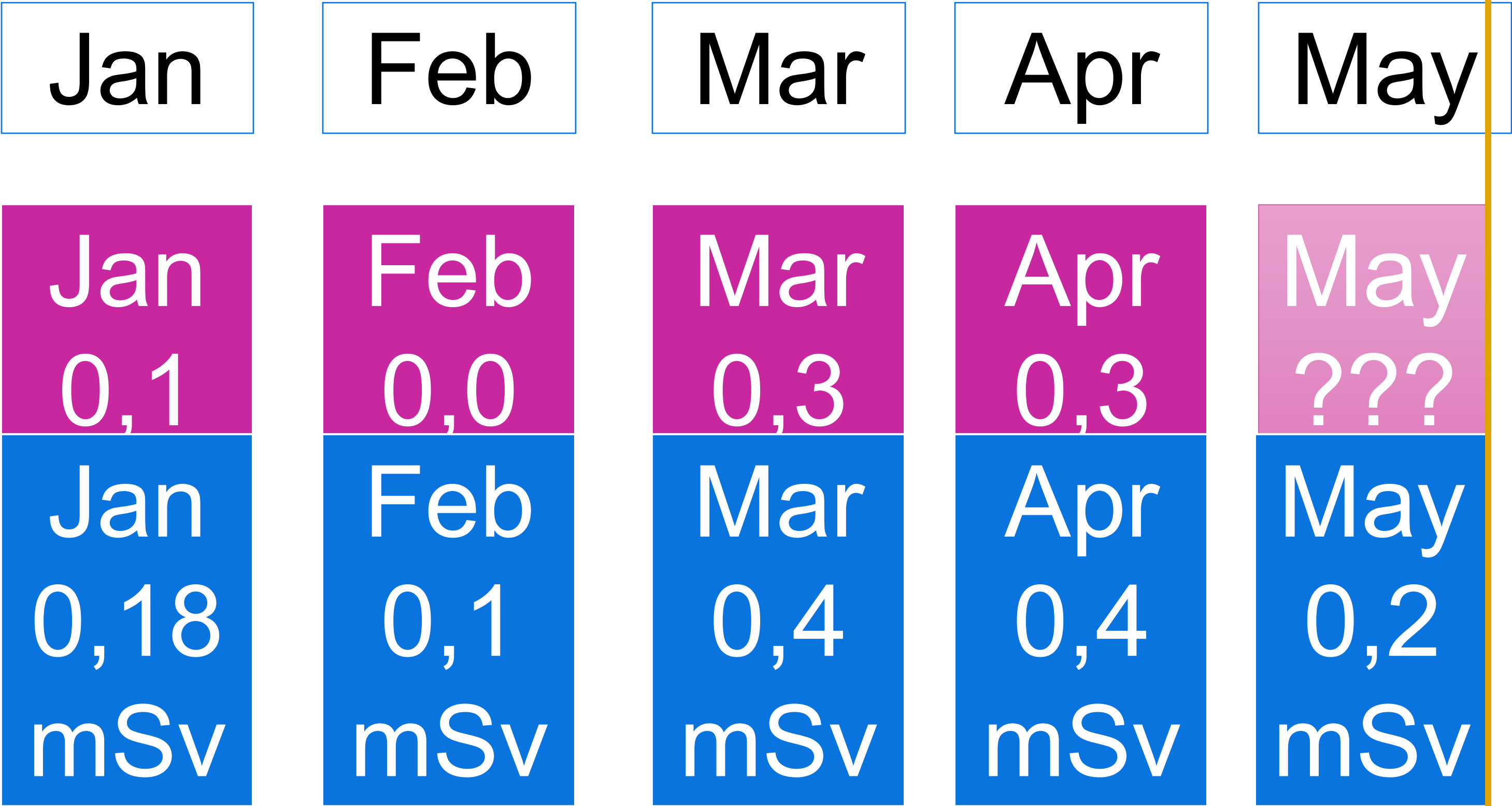
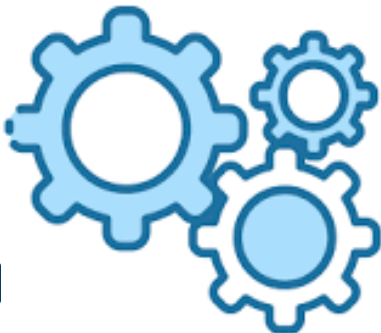
Goal : protect the workers not to go over the legal yearly legal

DosiServ uses the **Estimated** dose for access control

Access control	
Enable monitoring check-in/-out status	<input checked="" type="checkbox"/>
Check at controlled-area entry whether dosimeter exists.	<input type="checkbox"/>
Check if dosimeter is calibrated	<input type="checkbox"/>
Dosimeter blocked on exit with alarm	<input type="checkbox"/>
Access control only on operational dose	<input type="checkbox"/>



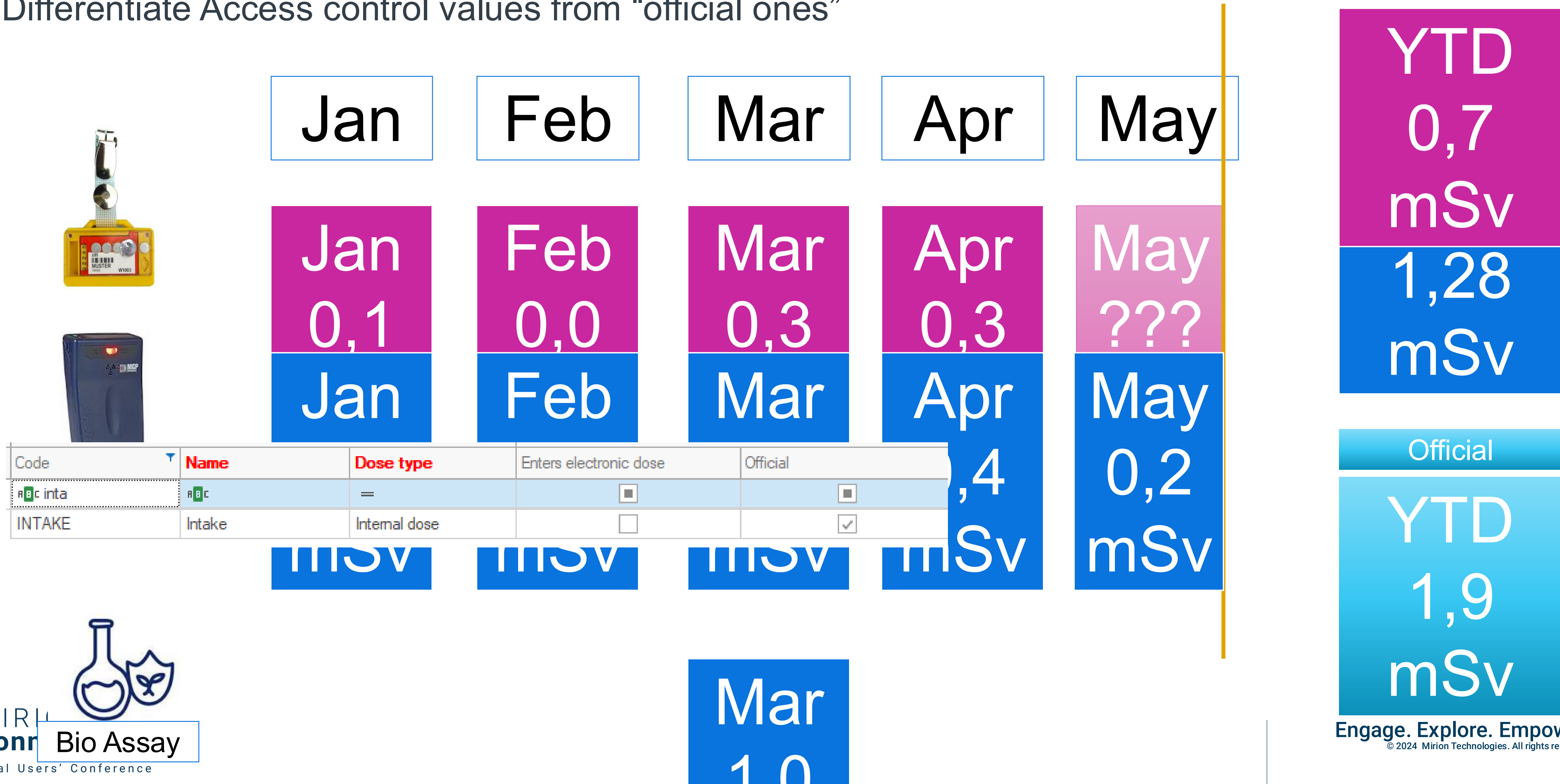
DMC 3000



Main concept about “Estimated” Dose and Legal Dose in DosiServ

Why “Official” was introduced

Differentiate Access control values from “official ones”



Main concept about “Estimated” Dose and Legal Dose in DosiServ

Estimated → Access control

Official → For information

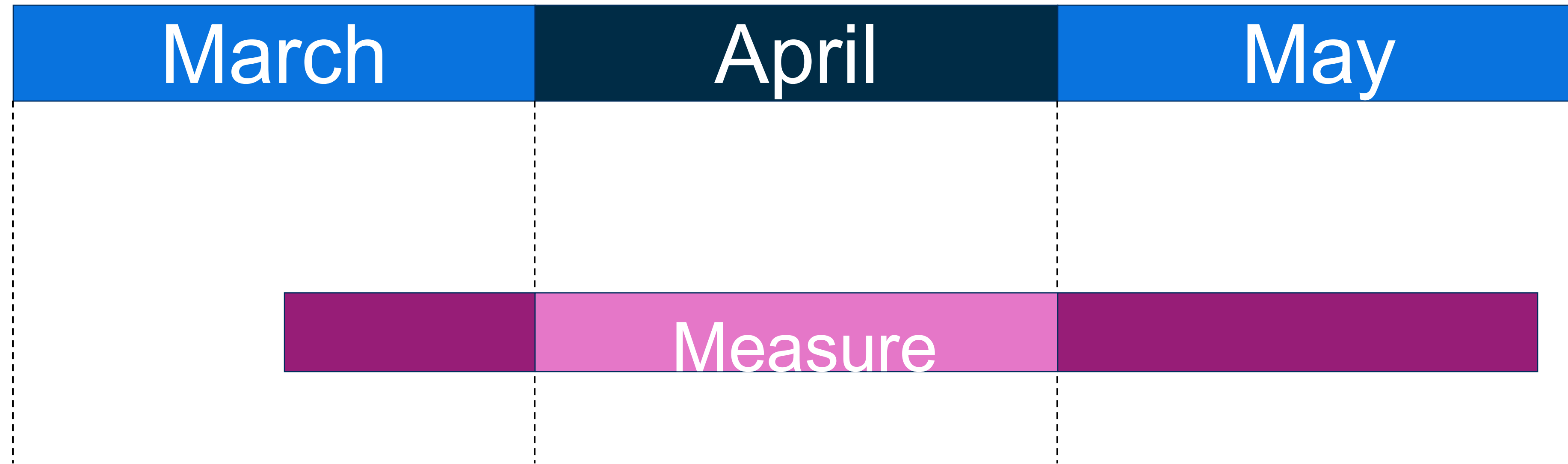
Dose and dose rate			^
Dose unit	mrem		
Dose rate unit	mrem/h		
Calculation factor for dose and dose rate unit		1	
Accuracy of dose unit		1	
HP10 minimum dose		0.5	
HP007 minimum dose		0.5	
Dose pre-alarm threshold (%)		80	
Rate pre-alarm percent		80	
Maximum rate alarm	<input checked="" type="checkbox"/>		
sliding dose management	<input checked="" type="checkbox"/>		
XP period number		3	
Default duration value of a virtual visit		8:00:00	
Reset personal limits	<input checked="" type="checkbox"/>		
ID format		99999999999999	
Access control			^
Enable monitoring check-in/-out status	<input checked="" type="checkbox"/>		
Check at controlled-area entry whether dosimeter exists.	<input type="checkbox"/>		
Check if dosimeter is calibrated	<input type="checkbox"/>		
Dosimeter blocked on exit with alarm		None	
Access control only on operational dose	<input type="checkbox"/>		
General task information			^



Introduction to new Worker measure BITS

Introduction to new Worker measure BITS

Today's situation

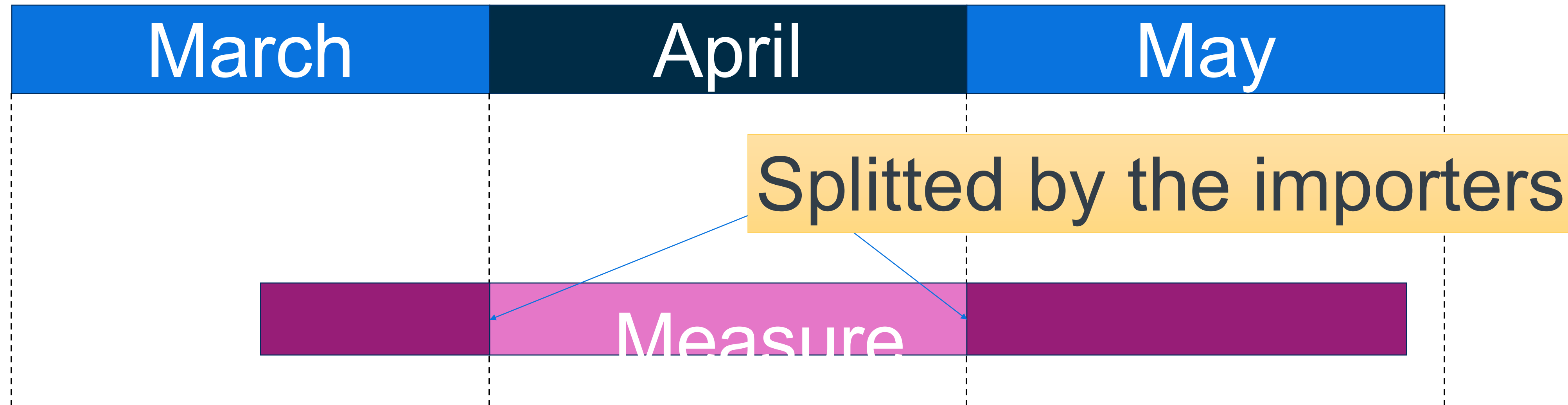


Constraints :

- Cannot overlap **multiple periods**
- Cannot overlap a **year change**
- In case of a **company change** during a measure, the **dose cannot be distributed to companies correctly**

Introduction to new Worker measure BITS

Bespoke implementations



Enhancement :

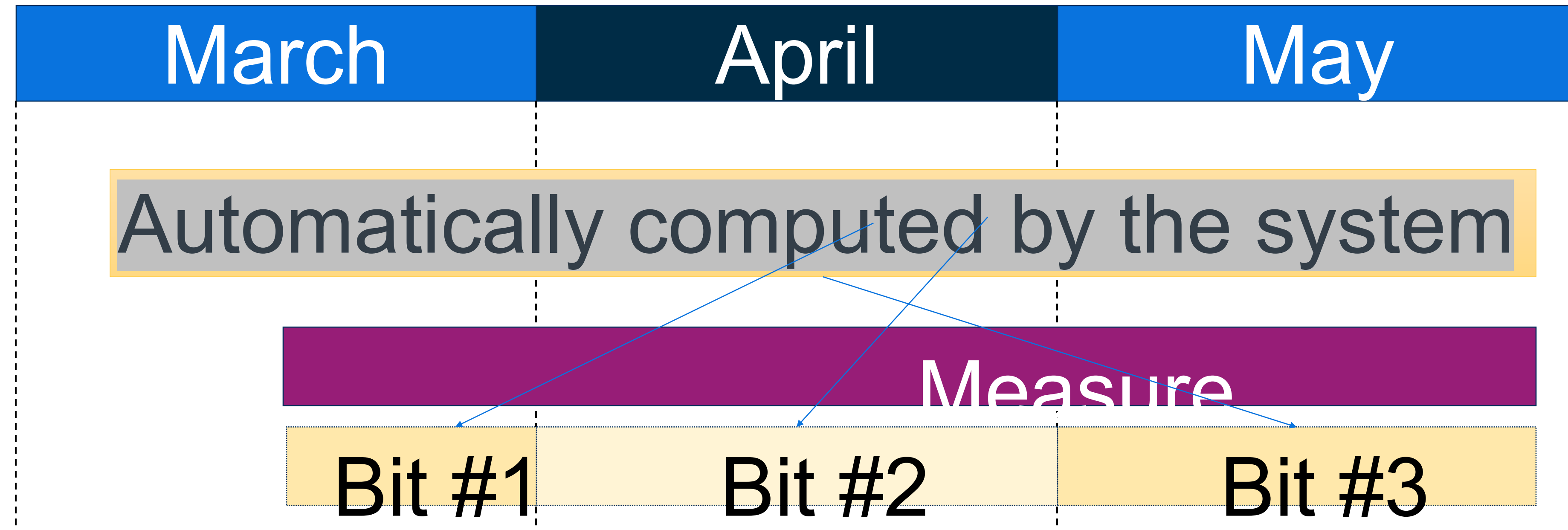
- The measures are **splitted during the import process**
 - The dose is distributed by **prorata-temporis** or **prorata-dosimetric**

Constraints :

- A fundamental measure can still not overlap **multiple periods**
- A fundamental measure can still not overlap a **year change**
 - A manual **aposteriori modification of the doses** need to be handled with caution
- In case of a **company change** during a measure, the **dose cannot be distributed to companies correctly**

Introduction to new Worker measure BITS

Worker Measure Bits

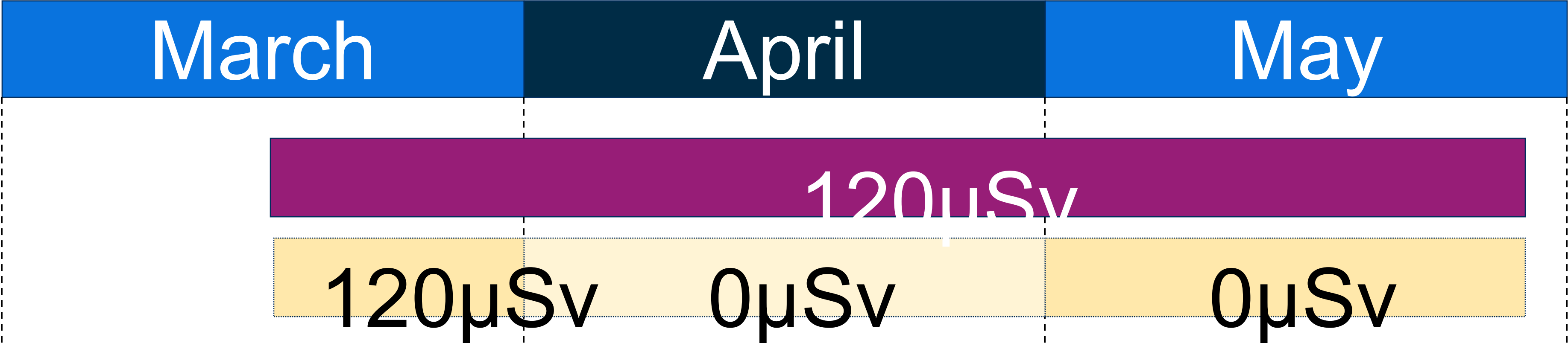


Enhancements :

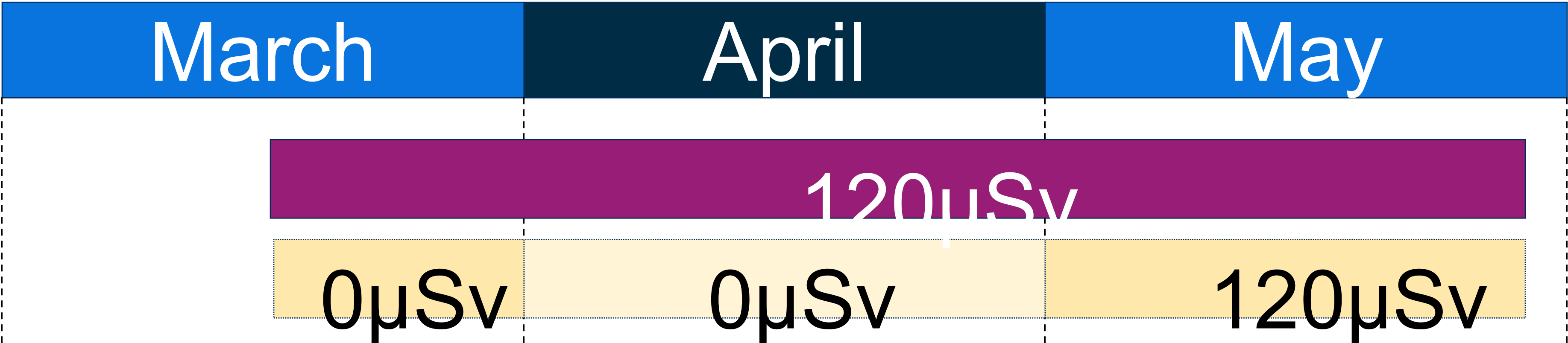
- Can overlap multiple periods
- Can overlap a year change
- In case of a **company change** during a measure, the **estimated dose is consistent and distributed over the companies**
 - **Flexible automatic distribution** according to the measurement type configuration :
Prorata-temporis / Prorata-dosimetric / All-On-First-Period / All-On-Last-Period
- Dosimetric **summaries are as closest as possible to reality !**
- **Manual dose changes can now be done** on the fundamental measure without struggling with calculations

Introduction to new Worker measure BITS : Examples

Worker Measure Bits – First Period

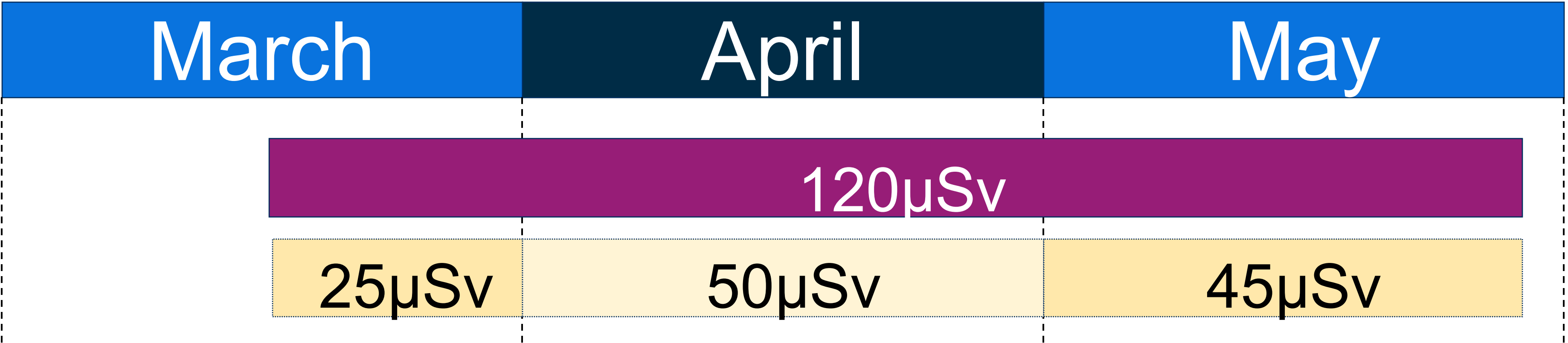


Worker Measure Bits – Last Period

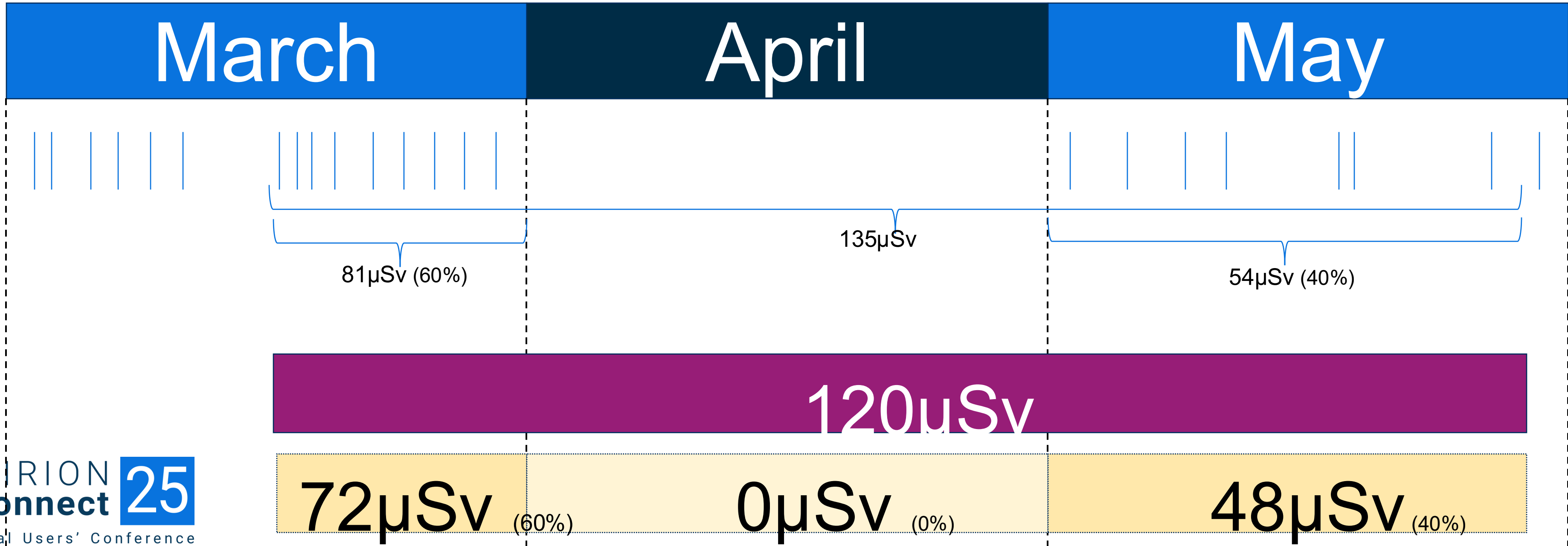


Introduction to new Worker measure BITS : Examples

Worker Measure Bits – Prorata Temporis

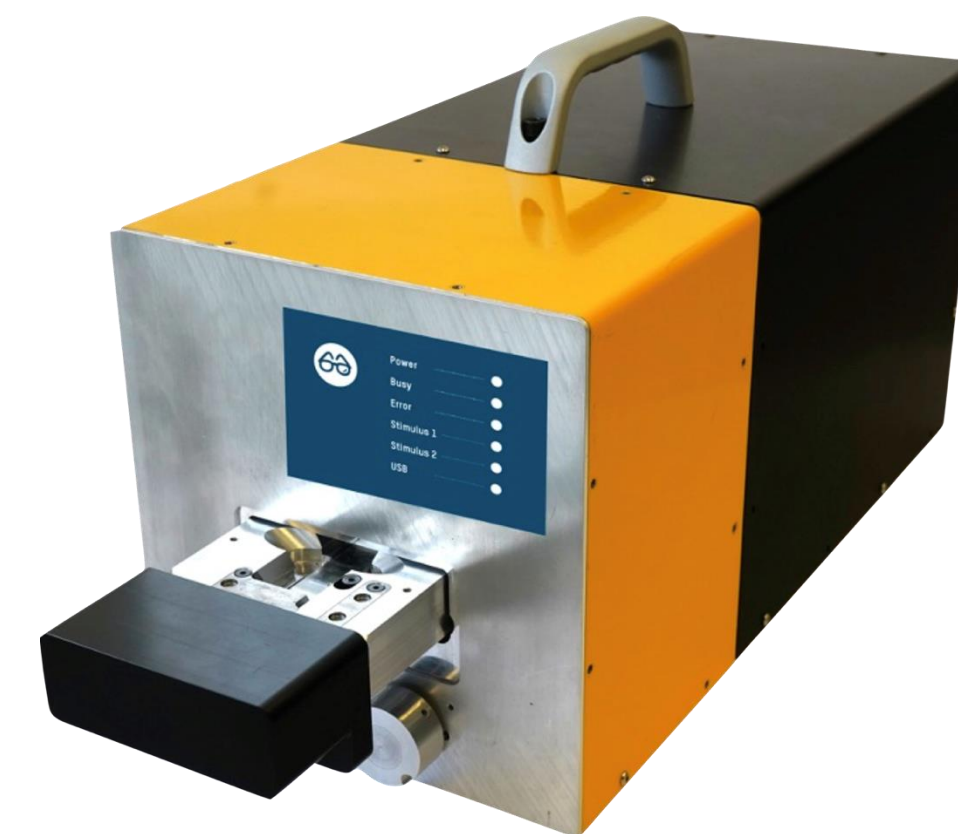
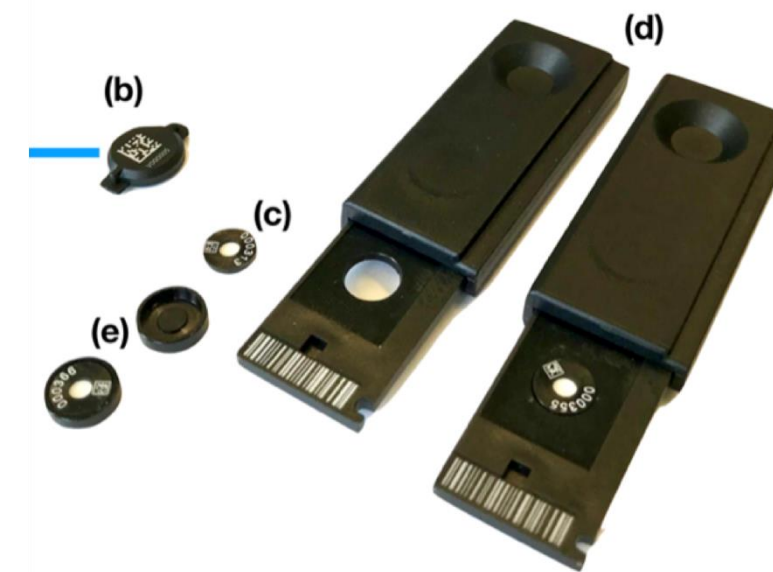


Worker Measure Bits – Prorata Dosimetric



The new connections with OSL readers

- OSL Dosimetry systems
 - OSL Readers
 - Erasers and Irradiators
 - OSL dosimeter
 - Whole body dosimeters 2/4 element
 - Extremity dosimeters
 - Eye lens dosimeters
 - Ambient and environmental dosimeters
 - Automation systems



Instadose

Instadose[®]VUE

Wireless Dosimeter

Photon + Beta + Neutron



Advancing Safety with Immediate Data

More than 20 years of wireless dosimetry experience.



The UK Experience



The UK Experience

- **INTRODUCTION**

- What is approve is not the DMC 3000 !!!
- What is approve is a **service**
- Service is provided by NUVIA

- **APPROVAL PROCESS**

- Approval submission/audit procedures
- Electronic Personal Dosimeters
- Readers
- Dose Management Software
- Dose assessment process/software
- Record keeping



The UK Experience

Stake holders



**Data
Central Record**

Approved
Dosimetry Service











MIRION
TECHNOLOGIES

EPD Data
Acquisition

OverView

Components

-  Approval submission/audit procedures
-  Electronic Personal Dosimeters
-  Readers
-  Dose Management Software
-  Dose assessment process/software
-  Record keeping



The UK Experience

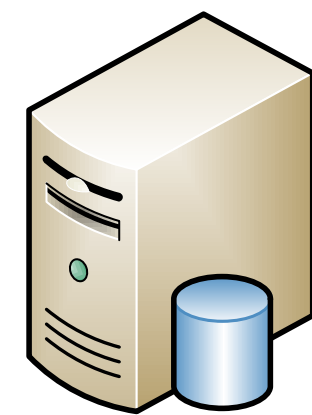
- Approval submission/audit procedures
- Electronic Personal Dosimeters
- Readers
- Dose Management Software
- Dose assessment process/software**
- Record keeping

Step 1 (at the end of the month)

- Site Generate files and sends to DAS
 - People
 - Visits
- DAS will then compute and if needed challenge some visits
- Challenges will be sent back to the site for investigation /correction
- Site will "clean up" / justify and send back

NOTA BENE!

The entire approval resides in the ability of the Dose Assessment Software to detect Dosimeter malfunction and/or miss use by the worker as well as the system malfunction and/or miss use by the RP personnel



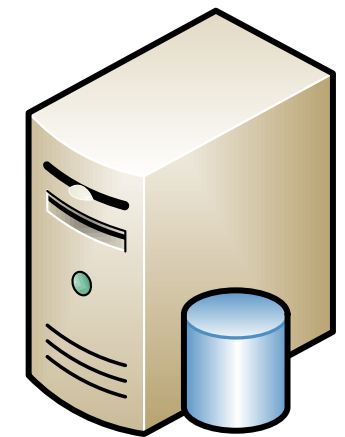
HSE



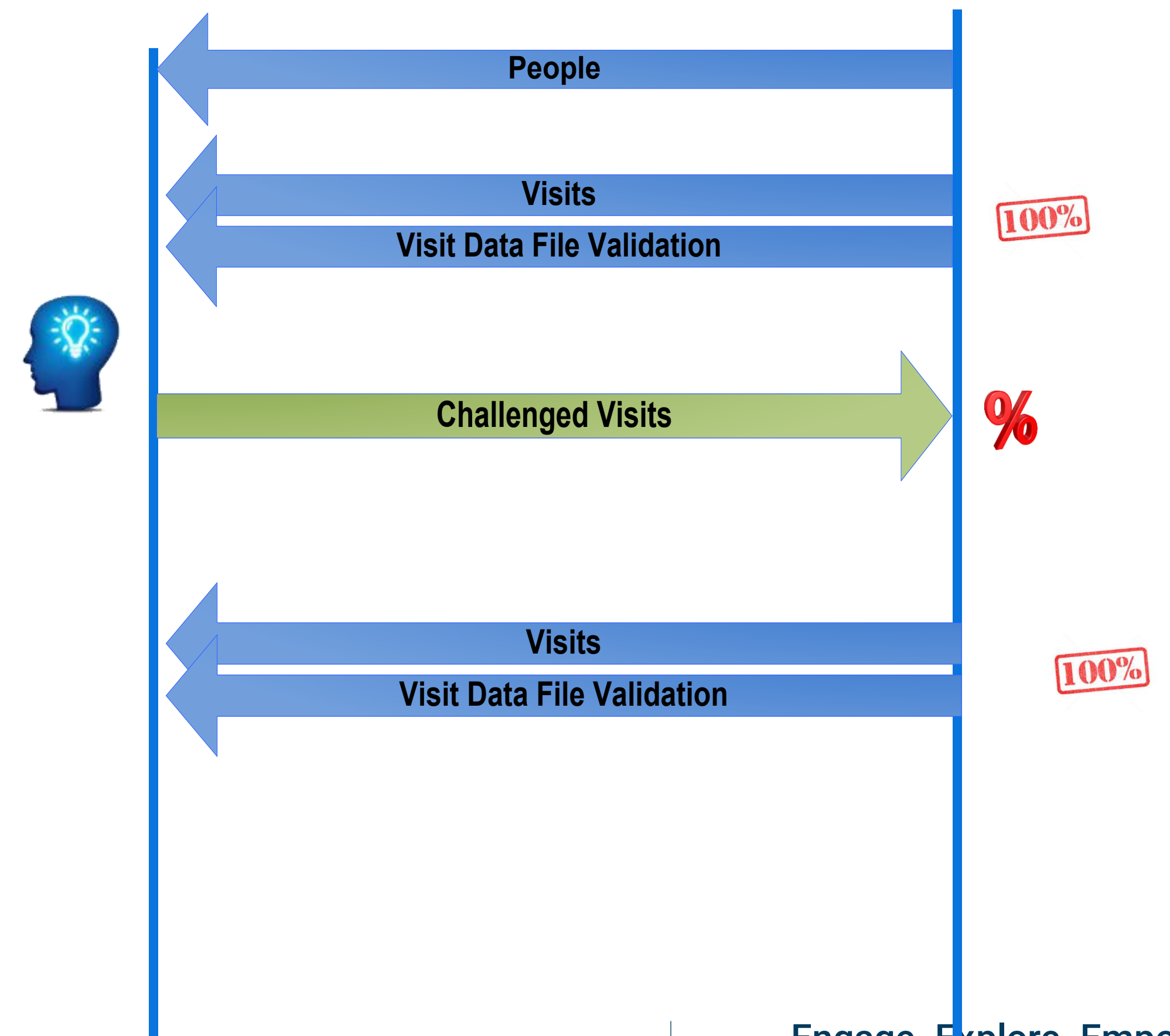
DAS
@
DAS



Site



DosiServ
App Server



The UK Experience

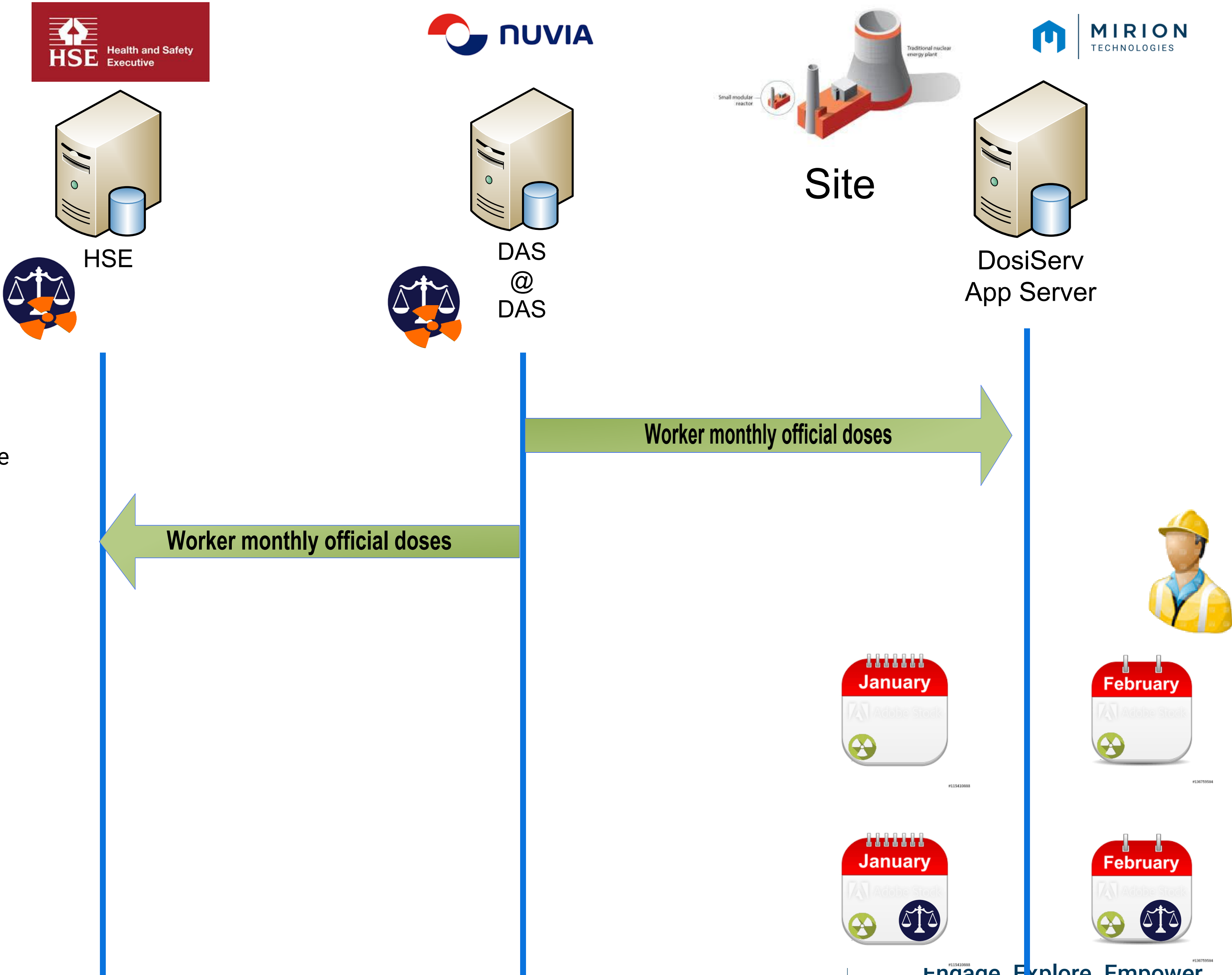
- Approval submission/audit procedures
- Electronic Personal Dosimeters
- Readers
- Dose Management Software
- Dose assessment process/software**
- Record keeping

Final Step

- DAS OK with the data
 - Will send back Monthly values to site
 - Will send Data to HSE (legal body)

NOTA BENE!

Both HSE and Approved Dosimetry Service (ADS) perform record keeping



The UK Experience

- Approval submission/audit procedures
- Electronic Personal Dosimeters
- Readers
- Dose Management Software
- Dose assessment process/software**
- Record keeping

NOTA BENE!

The entire approval resides in the ability of the Dose Assessment Software to detect

- 1) Dosimeter malfunction and/or
- 2) miss use by the worker as well as the
- 3) system malfunction and/or
- 4) miss use by the RP personnel

- **Dosimeter**
 - Max HP(10) doses
(Visit can be commented by the site to avoid challenge)
 - HP(10)/HP(0,07) or HP(3) ratio.
 - Duration
 - Dosimeter fault in self test
 - Battery removed
(triggers measure duration check in perspective with Visit duration)
- **Dosimetry system**
 - Dose alarm flag versus Dose alarm setpoint and dose
 - Cal due date consistency (not mandatory)
 - Dosimeter calibration factor.
 - Manually entered visit
 - Manually modified visit

DosiServ – Part 3

- DosiServ & Legal dose
- Equipment Management
- Data Migration

Equipment types

DOSISERV Interface - mgp/localhost - Factory - CONFIG SITE - [Equipment types]

FileWindowHelpLDMX20 configuration

Navigation Control bar

Record 1 of 7

Task

Areas

RWP

Dashboard

Configuration

Main Parameters

Reader

Alarm thresholds

Companies

Sections

Equipment types

Designation

Measurement device

802-TLD	<input checked="" type="checkbox"/>
DIS	<input checked="" type="checkbox"/>
Extremities	<input checked="" type="checkbox"/>
Mirion Electronic Dosimeter	<input checked="" type="checkbox"/>
PLASTIC SUIT	<input type="checkbox"/>
RESPIRATOR	<input type="checkbox"/>
RPL	<input checked="" type="checkbox"/>

Equipment types qualifications

DOSISERV Interface - mgp/localhost - Factory - CONFIG SITE - [Equipment Type Dynamic Criteria]

File Window Help LDMX20 configuration

Navigation Control bar

Record 4 of 7

Task

Areas

RWP

Dashboard

Configuration

Main Parameters

Reader

Alarm thresholds

Companies

Sections

Dosimeters

Equipment

Equipment types

Equipments list

Equipment history

Equipment Type Access

Equipment Type

Label	Measurement device
Ac	
Mirion Electronic Dosimeter	
DIS	
RPL	
RESPIRATOR	
Extremities	
PLASTIC SUIT	
802-TLD	

Available criteria

Criteria category	Code	Validity period (in d...
Ac	Ac	=
Medical	Medical exam	
Training	Training	
Medical	WBC	
Training	PAPR-TR	
Medical	PAPR-MED	

Assigned Criteria

Criteria category	Code	Validity period (in days)
Ac	Ac	=
Training	RESP	

>>

<<

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Equipment's themselves

DOSISERV Interface - mgp/localhost - Factory - CONFIG SITE - [Equipments list]

File Window Help LDMX20 configuration

Navigation Control bar

Record 14 of 15

Task

Areas

RWP

Dashboard

Configuration

Main Parameters

Reader

Alarm thresholds

Companies

Sections

Dosimeters

Equipment

Equipment types

Equipment type : * Equipment Name : Search

Drag a column header here to group by that column

Definition of Equipment										
Code	Name	Type	Location	Not available	Return necessary	Assignment period (in days)	Expiry date	Modification date	Temporary	
PLASTIC SUIT - 0...	001	PLASTIC SUIT						30/01/2024		
PLASTIC SUIT - 0...	002	PLASTIC SUIT						30/01/2024		
PLASTIC SUIT - 0...	003	PLASTIC SUIT					02/01/2024	30/01/2024		
RESPIRATOR - 0...	0900	RESPIRATOR						08/01/2024		
RESPIRATOR - 0...	0911	RESPIRATOR						08/01/2024		
RPL - 77888	77888	RPL					01/01/2024	08/01/2024		
RPL - 77999	77999	RPL						08/01/2024		
802-TLD - 802772	802772	802-TLD						07/04/2025		
802-TLD - 802773	802773	802-TLD						07/04/2025		
802-TLD - 888771	888771	802-TLD						07/04/2025		
802-TLD - 889900	889900	802-TLD					11/11/2024	27/11/2024		
RPL - 88999	88999	RPL						08/01/2024		
RESPIRATOR - 0...	0912	RESPIRATOR						12/05/2025		
RESPIRATOR - 0...	0913	RESPIRATOR						12/05/2025		
RESPIRATOR - 0...	0914	RESPIRATOR						12/05/2025		

Equipment's hand out and retrieve

Worker Details

Record 1 of 5

Last Name:First nameInsurance No.ID Number

MrRyanAlden491

Information

Dosimetry

Access

Additional fields

Tasks / Areas / Rwp

Visits

Equipment

DIS

Dashboard

Record 1 of 2

List of equipment:RESPIRATOR0913

Drag a column header here to group by that column

Definition of Equipment		Assignment			Return of equipment			
Name	Equipment type	Date	Assigned by	Comments	Expected return date	Return date	Taken back from	Return status
ABC	ABC	=	=	ABC	=	=	=	=
0912	RESPIRATOR	12/05/2025	mgp					Not returned
888771	802-TLD	12/05/2025	mgp					Not returned

Equipment's history

DOSISERV Interface - mgp/localhost - Factory - CONFIG SITE - [Equipment history]

FileWindowHelpLDMX20 configuration

Navigation Control bar

Record 4 of 14

Task

Areas

RWP

Dashboard

Configuration

Main Parameters

Reader

Alarm thresholds

Companies

Sections

Dosimeters

Equipment

Equipment type : *Worker :

Equipment Name :

Drag a column header here to group by that column

Equipment information							Worker information			
Name	Assignment date	Return date	Equipment type	Return status	Taken back from	Last name	First name	Company	Category	
001	27/11/2024 17:59:56	27/11/2024 18:01:13	PLASTIC SUIT	Returned and OK	mgp	Adams	Anna	Advanced Nuclear Limit...	Rad Worker A	
001	27/11/2024 18:01:37	27/11/2024 18:11:14	PLASTIC SUIT	Returned and OK	mgp	Adams	Anna	Advanced Nuclear Limit...	Rad Worker A	
001	27/11/2024 18:11:24	27/11/2024 18:11:37	PLASTIC SUIT	Returned and OK	mgp	Adams	Anna	Advanced Nuclear Limit...	Rad Worker A	
001	07/04/2025 23:25:54		PLASTIC SUIT	Not returned		Rodriguez	Rachel	Prime Fusion Incorporat...	Rad Worker A	
002	06/03/2024 12:57:48		PLASTIC SUIT	Not returned		Adams	Lori	Prime Energy Corporation	Rad Worker A	
0900	20/11/2024 18:02:44		RESPIRATOR	Not returned		Robinson	Megan	Advanced Atom Corpor...	Rad Worker A	
0911	27/11/2024 17:58:58	27/11/2024 18:01:17	RESPIRATOR	Returned and OK	mgp	Adams	Anna	Advanced Nuclear Limit...	Rad Worker A	
0911	27/11/2024 18:01:37	27/11/2024 18:11:21	RESPIRATOR	Returned and OK	mgp	Adams	Anna	Advanced Nuclear Limit...	Rad Worker A	
0911	27/11/2024 18:24:10		RESPIRATOR	Not returned		Adams	Anna	Advanced Nuclear Limit...	Rad Worker A	
0912	12/05/2025 16:05:19		RESPIRATOR	Not returned		Ryan	Alden	Quantum Radiation Indu...	Rad Worker A	
77999	08/01/2024 17:42:11	08/01/2024 17:42:44	RPL	Lost	mgp	Adams	Lori	Prime Energy Corporation	Rad Worker A	
802772	07/04/2025 23:26:02	07/04/2025 23:31:27	802-TLD	Returned and OK	mgp	Rodriguez	Rachel	Prime Fusion Incorporat...	Rad Worker A	
802773	07/04/2025 23:25:27	07/04/2025 23:32:10	802-TLD	Returned broken	mgp	Rodriguez	Rachel	Prime Fusion Incorporat...	Rad Worker A	
888771	12/05/2025 16:05:06		802-TLD	Not returned		Ryan	Alden	Quantum Radiation Indu...	Rad Worker A	

Equipment's and check-out

Worker Details

Last Name:

Mr

Ryan

First name

Alden

Insurance No.

ID Number

491

Information

Dosimetry

Access

Additional fields

Tasks / Areas / Rwp

Visits

Equipment

DIS

Dashboard

Checked-in

Drag a column header here to group by that column

List of check-in/check-out data

Date of check in	Check-in user	Check out date	Checked out by	Enforce a
14/12/2023 22:...	System			

Check-out the worker

Check in / Check out

➡

Check worker in controlled-area

☒ not in area

⚠

Check conflict visits

☒ Conflict visits

🔧

Check equipment

☐ Return all

☒ View report

Enforce

Cancel

Check-in/check-out history

Drag a column header here to group by that column

List of check-in/check-out data

Date of check in	Check in user	Check out date	Checked out by	Check out has ...	Reason to enfo...	Reason to enfo...	Reason for enfo...
14/12/2023 2...	System			<input type="checkbox"/>			

Qualifications

Area interdiction History

Check- in/-out

Units for Dose and Rate: mrem; mrem/h

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wer.

eserved.

TLD as an equipment

DOSISERV Interface - mgp/localhost - Factory - CONFIG SITE - [General Parameters]

File Window Help LDMX20 configuration

Navigation Control bar

Record 1 of 1

Task

Areas

RWP

Dashboard

Configuration

Main Parameters

General Parameters

Periods Configuration

Configuration of health physics

Mail dispatchers

Reader

Alarm thresholds

Companies

Sections

Dosimeters

Equipment

General parameters

Database

Worker Details

Dose and

Access

General

Database name: dosi2

Task authorization for worker may not be empty

DIS Skip Measurement Generation Error Flags

No Error

Exit control

Information

Dosimetry

Access

Additional fields

Tasks / Areas / Rwp

Visits

Equipment

DIS

Dashboard

List of Doctors

Delete doctor

Doctor Information

Doctor Information

Last name

First Name

Phone/Fax/e-Mail

Phone No.

Fax No.

E-Mail

Address of worker

Street address

City

Postal code

Country

Official

Current month : 01/05/2025

Current month - 1 : 01/04/2025

Current month - 2 : 01/03/2025

Current month - 3 : 01/02/2025

NAME

0912

0913

0914

008771

00990

×

General Information

Medical

Units for Dose and Rate: mrem, mrem/h

DosiServ – Part 3

- DosiServ & Legal dose
- DosiServ & Equipment Management
- Data Migration to DosiServ

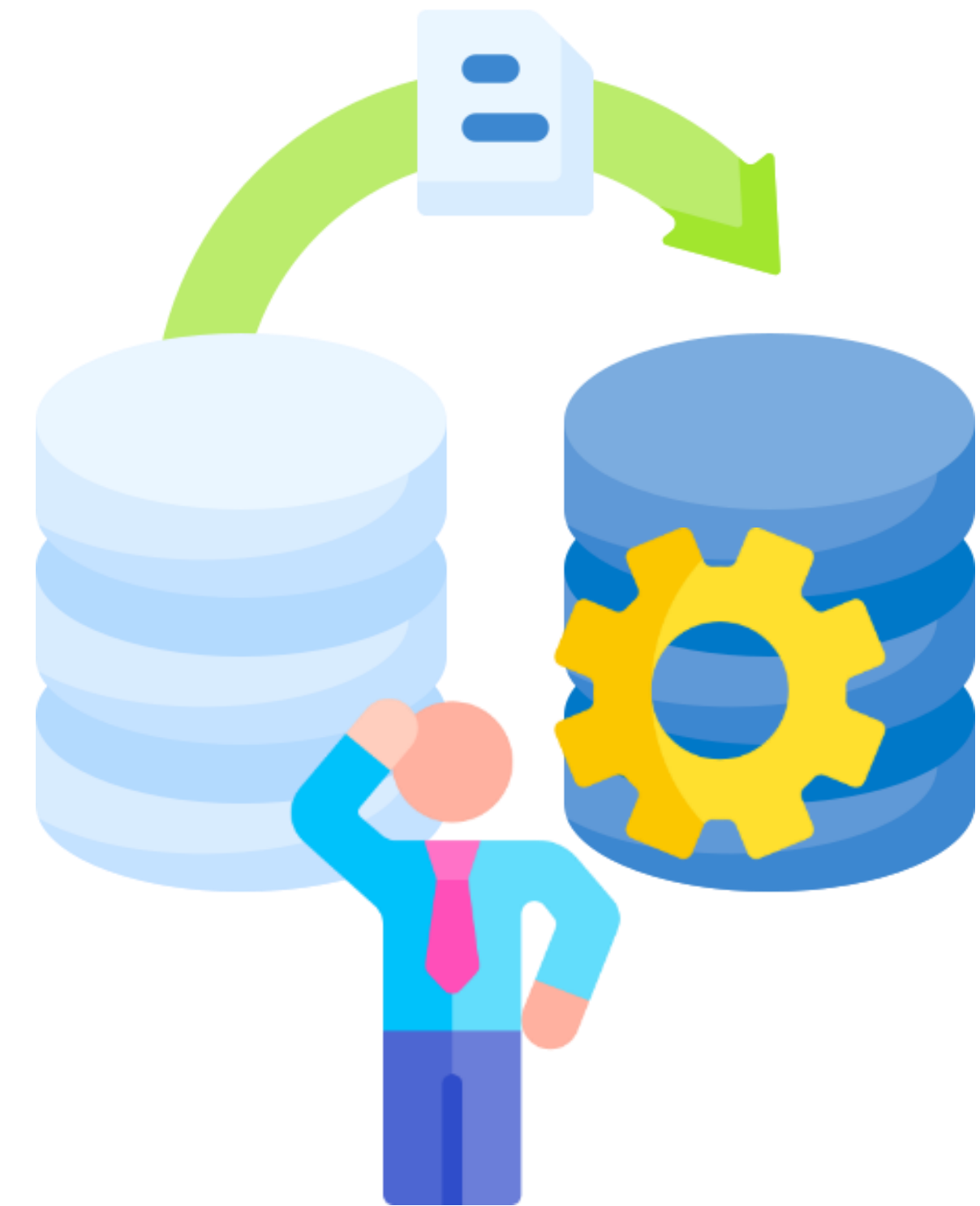
Migrating to DosiServ - Challenges

Very often when a DosiServ system is deployed at customer site, part of the requirements is to migrate legacy data to DosiServ.

This data is usually made of:

- Workers + Companies information
- Workers electronic doses history
- Workers legal doses history
- Job codes / RWPs

As the legacy database and the DosiServ database can use very different DB engines and can have very different structures and data constraints, migrating from a legacy system to DosiServ does not go without challenges.



Migrating to DosiServ - Challenges

The key items to address efficiently those challenges are :

- Good cooperation between Mirion and the site (RP, IT/DB).
- Good preparation to define the appropriate migration process
- Perform several test migrations and use tools to verify data
- Have a clearly defined migration plan (including a rollback plan)



Cooperation



Preparation



Testing



Migration Plan

Migrating to DosiServ – Migration Tools

Mirion has been performing legacy data migration on a yearly basis since 2007.

It has been the opportunity to build several migration tools that can be used to ease and secure the data migration.

Each data migration being unique, it is important to identify the most appropriate tools to perform the migration.

Data migration verification is also an important topic.



Migrating to DosiServ – Migration Tools

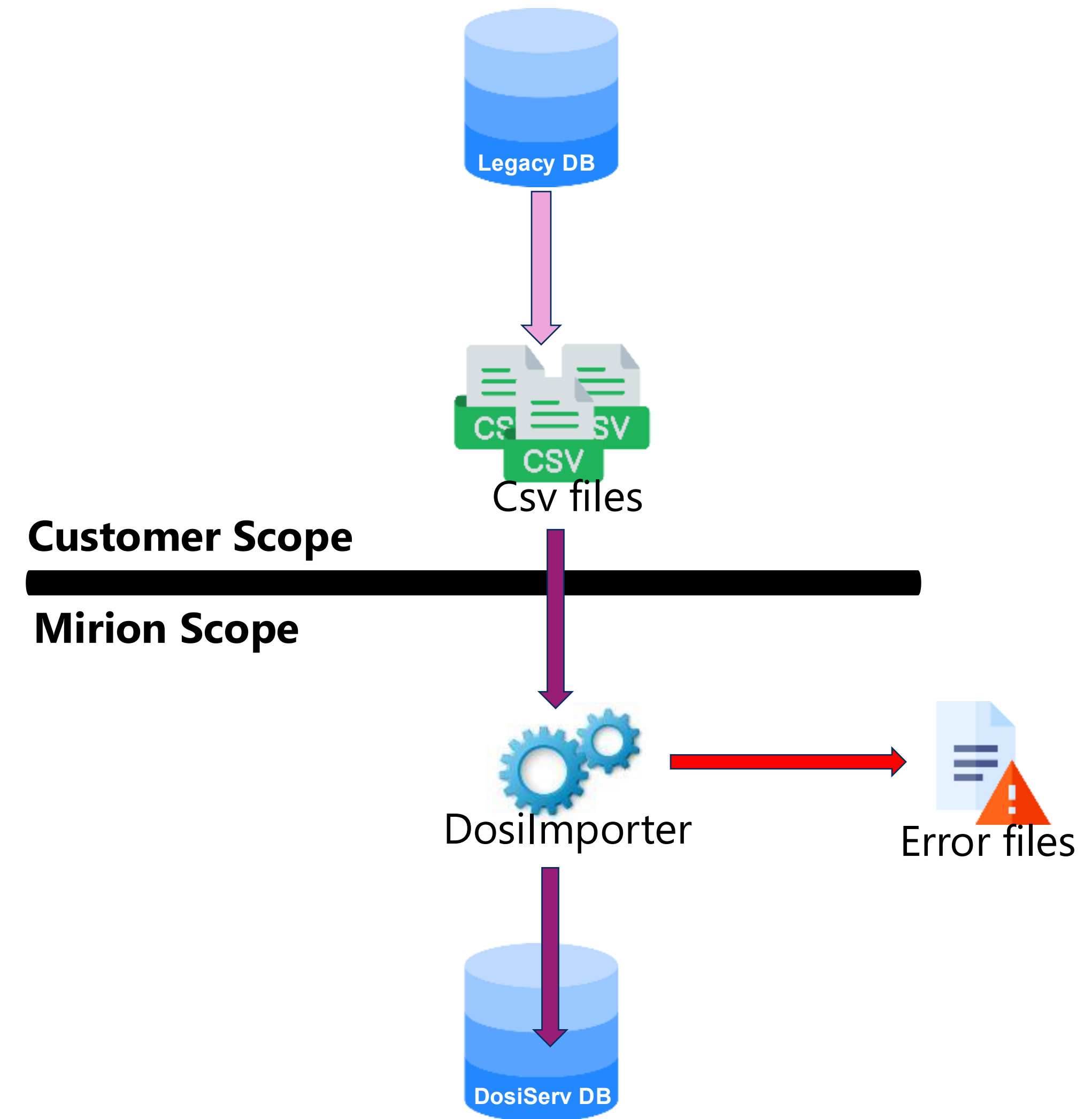
IMPORTERS

DosiServ provides built-in importers that can be used to import data from text files (csv formatted).

It is a two steps process:

- customer IT (usually) generates the files using expected format from the legacy database
- Mirion launches the importer program for every file to import data from the files to the DosiServ database.

Any record that cannot be imported is clearly stored into a dedicated error file.



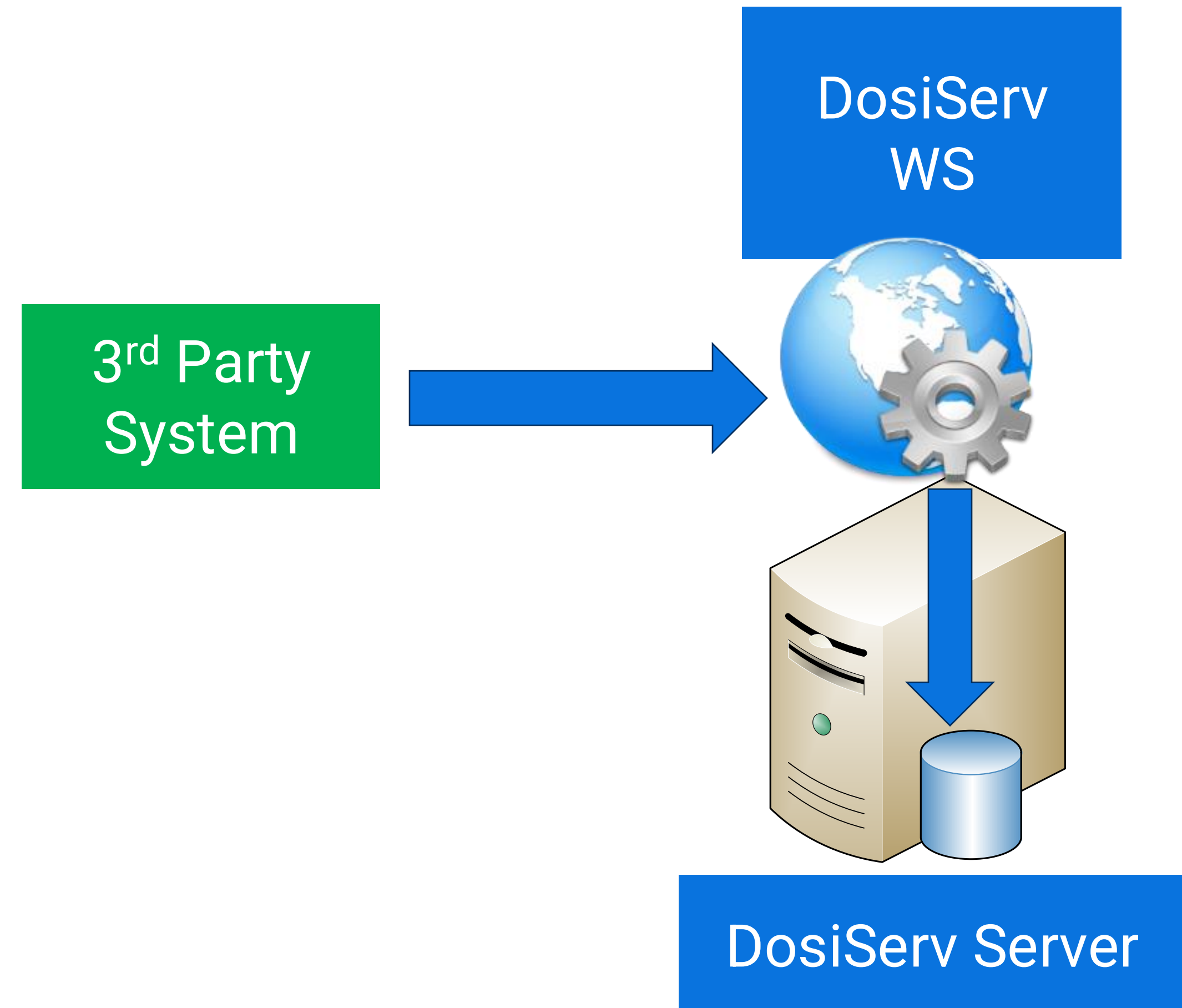
Migrating to DosiServ – Migration Tools

WEB SERVICE

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 is an option to be able to import data into DosiServ.



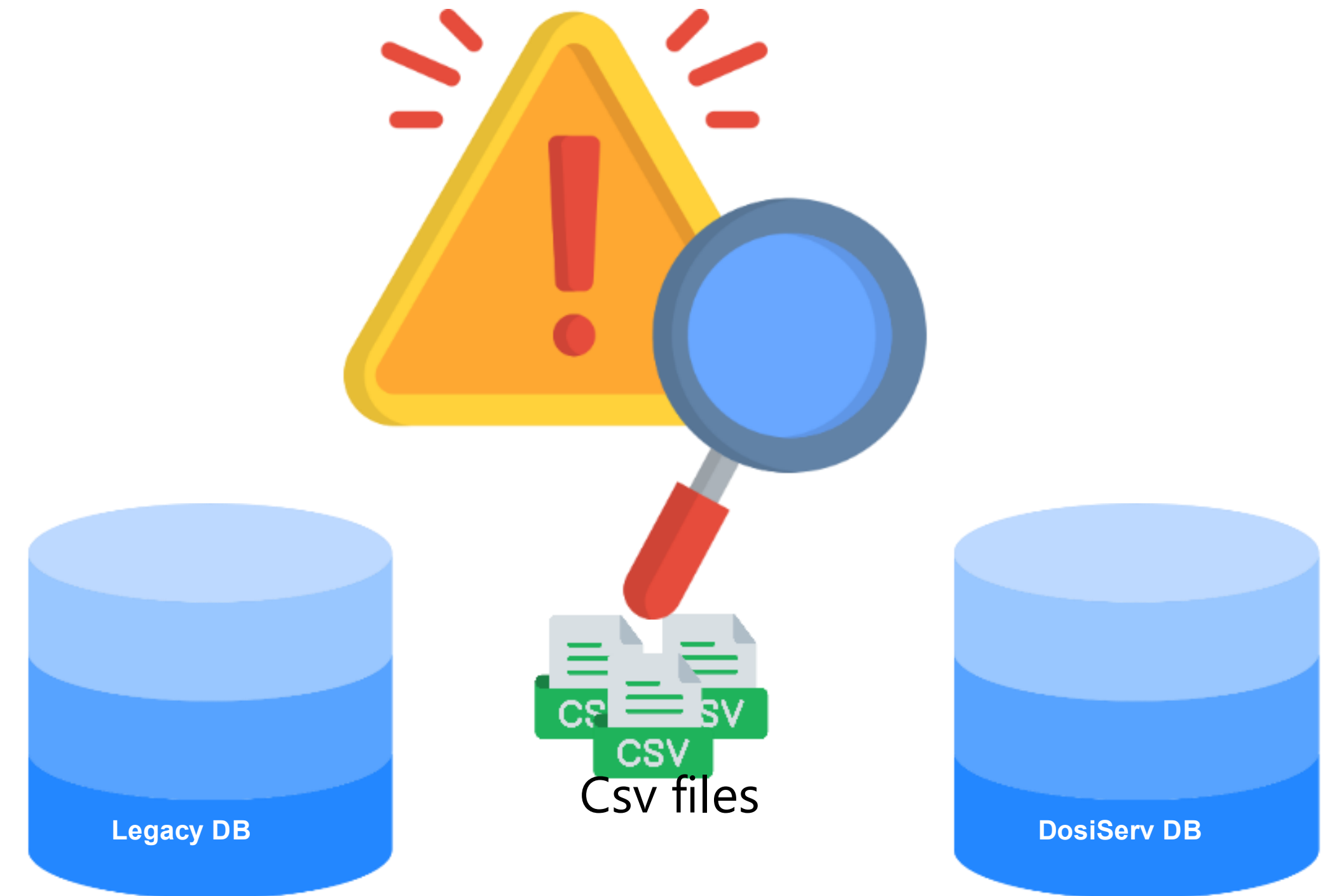
Migrating to DosiServ – Migration Tools

VERIFICATION TOOL

Being able to verify that data has been properly migrated is part of the migration process.

Mirion can provide tools to check data from an importer file has been properly stored into the DosiServ database.

However, specific customized verification routines are very often setup as every legacy data is unique.



Customizations with DosiServ

WHEN IS IT NEEDED ?

DosiServ is a Commercial-off-the-shelf product.

However, its architecture allows customizations and customers can require some customizations if the built-in features can fulfill all requirements.

Mirion will advise customers about the already built-in capabilities (API, importers...) and assesses if customizations are needed or not.



Customizations with DosiServ

WHEN IS IT NEEDED ?

In “big” installations, DosiServ is one more system to be integrated with a large numbers of other systems and the standard API is sometimes not enough to exactly fit.



Customizations with DosiServ

WHEN IS IT NEEDED ?

In “big” installations, DosiServ is one more system to be integrated with a large numbers of other systems and the standard API is sometimes not enough to exactly fit.

In this type of situation, DosiServ can be customized to perfectly adapt to the existing environment.



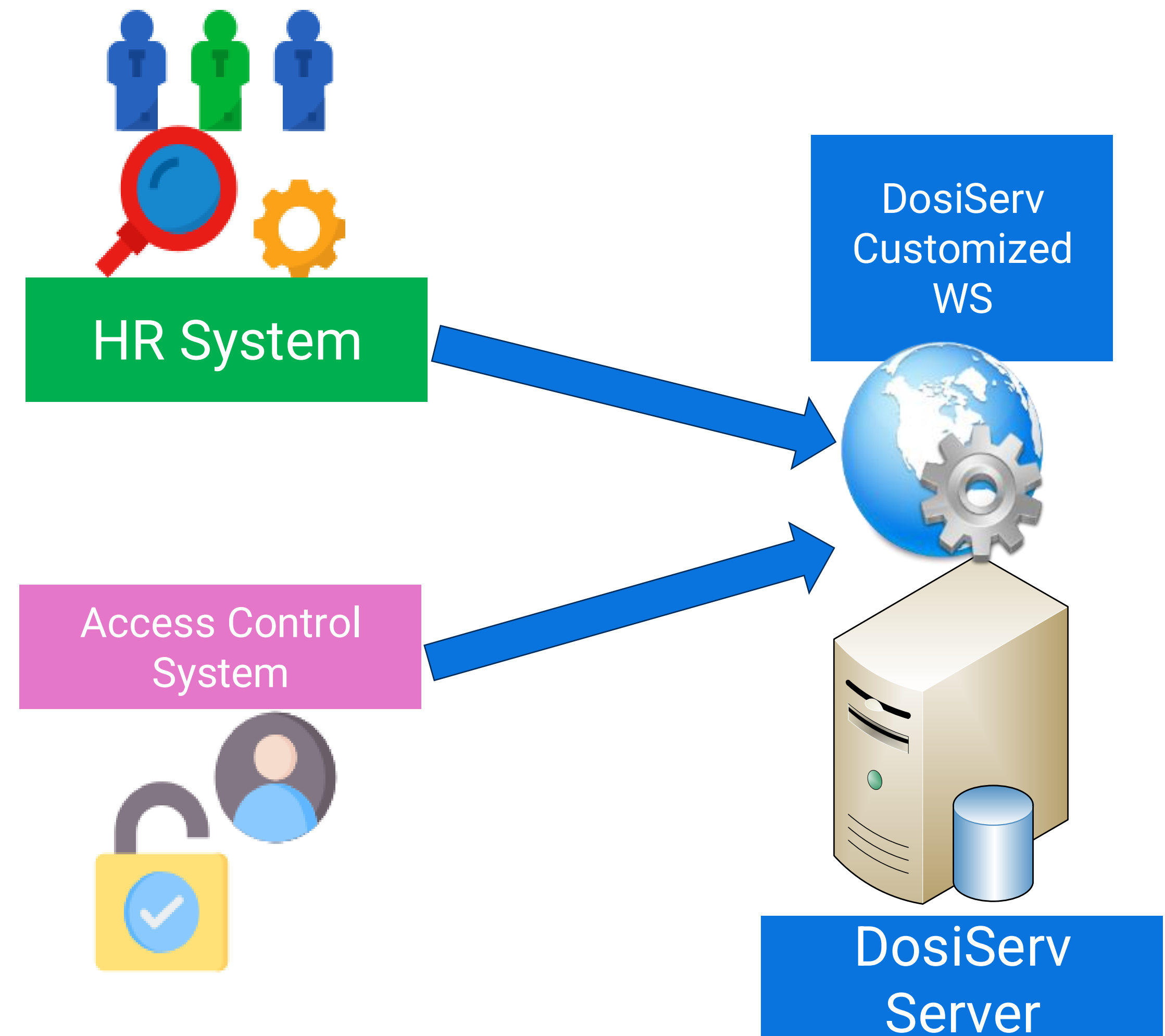
Customizations with DosiServ

DIFFERENT TYPES OF CUSTOMIZATIONS CUSTOMIZED API

Very frequently, the customizations made to a DosiServ installation are related to build software interfaces with third-party systems, like HR or Access Control, to maintain DosiServ's data from customer's other applications.

These interfaces are usually webservice based but database to database interfaces are possible too.

Cooperation with customer IT is needed for these customizations.



Customizations with DosiServ

DIFFERENT TYPES OF CUSTOMIZATIONS CUSTOMIZED SCREENS

Sometimes dedicated user interfaces are requested by customers.

The DosiServ application architecture can easily accommodate with theses UI customizations thanks to a plugin mechanism allowing to avoid code duplication.

These UI customizations sometimes get along with customized SW interface like doses export for instance.

Local Zone Manager

Alarm Definition

Worker Tracking

Rwp Tracking

Zone Group

D00

Zone

D12_GN4

Worker Informations

First Name

Philippe

Last Name

BRAZES4

Dosimeter

01A135C6

Badge Id

6

OSL Number

Company

Company1

Section Code

Section

Dosimetry

	12 Montsh Dose			Dose of the day	
	Actual	Limit	Margin	WZ	LZ
Body	0.132	20.000	19.868		
Eye	0.172	26.000	25.828		

RWP / Task Selection

RWP Group

D12_GN4_029

D12_GN4_029 title

Tot/Est .

0%

RWP

D12_GN4_029_03

Groot onderhoud servo in WWP

Tot/Est .

0%

Task	Hp10 Dose	HP10 Rate	Duration								
Code	Label	Total	Total N	Est.	Ratio	Max R	Est. R	Ratio R	Total	Est.	Ratio
23	Openen mangaten stoomgeneratoren A	0.098		0.050	196 %	0.408	0.500	82 %	00:23	00:10	236 %
29	ControlesANDinspecties stoomgenerator B			0.000			0.000			00:00	
D12_GN4_029_03_C01	Label Test 9			0.220			0.050			00:45	

Token Preparation

	Dosimeter	Suggested	To apply
Dose Alarm	0.898	0.094	0.094
Rate Alarm	1.000	0.500	0.500

Save Token

Dose and rate units : mSv;mSv/h

01A135C6 (v7.8.6 G3)

Login

Connected

MIRION
Connect25

43
Annual Users' Conference

Engage. Explore. Empower.

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Customizations with DosiServ

DIFFERENT TYPES OF CUSTOMIZATIONS CUSTOMIZED REPORTS

Providing additional reports to DosiGUI is also a common customization that has been done for several customers.

RADIATION PROTECTION CERTIFICATE

RPC NUMBER : 20070001

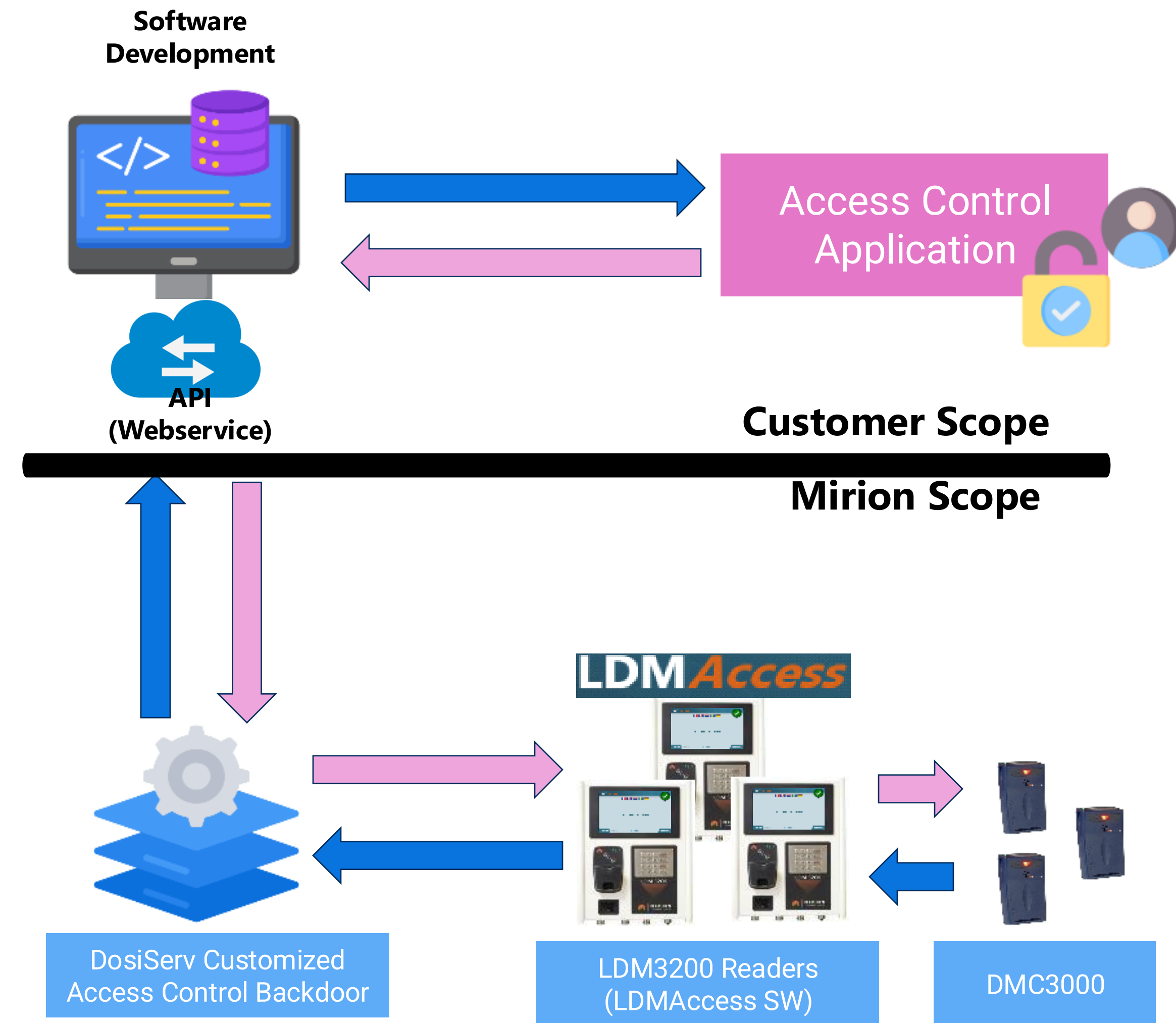
RADIATION PROTECTION CERTIFICATE		20070001	Revision :		7
ROUTINE OPERATING SURVEILLANCE ACTIVITIES IN THE CONTROLLED AREA					
Component :		Work Order :			
Project Code :		ALARA Review :			
Valid From :		2007/10/11 12:00:00AM	Dose Alarm :		150,000
Valid To :		2008/10/11 12:00:00AM	Rate Alarm :		2,000,000
Total Estimated Man Hours :		4:00	Total Estimated Dose :		100,000
Initiated by :		Revision Date : 2007/10/11 02:57:20PM			
Revision Reason : Rev 7					
Issued by : mgp		Issue Date : 2007/10/12 04:47:51PM			
Radiological Conditions:			Dosimetry (elements required):		
Expected Values : Survey Number :					
Dose Rate:			QFD: False Feet: False		
Contact: 0.00 CCPS:			TLD: False Head: False		
General area: 2,000.00 Bq/cm 50.00			TLD Neutron : True Hand: True		
Neutron: DAC: >1			EPD: True Finger: False		
Beta:			EPD Neutron: False Other: False		
			Neutron: False WB TLD: False		
RP Job Cover : None		No Cover necessary			
EQUIPMENT :					

Customizations with DosiServ

DIFFERENT TYPES OF CUSTOMIZATIONS EXTERNAL ACCESS CONTROL

Less frequent than the previous customizations, DosiServ can dedicate the access control to an external access control system.

Several technologies can be used for this purpose and cooperation with customer IT is needed in any case.



DosiServ – Part 3

- DosiServ & Legal dose
- DosiServ & Equipment Management
- Data Migration to DosiServ
- DosiServ 2026
 - Cybersecurity
 - New features
 - Access control
 - Form 4 / Form 5
 - AI

Cybersecurity Challenges

DosiServ is a software application that has been initiated in 2004. The application, as it has been designed at the time, could not have met today's expectations in terms of cybersecurity without a regular effort from Mirion to upgrade the technologies blocks that are involved in the application.

This is really an ongoing process as this field is permanently moving and new possible threats are raised almost every day in the software application world. Some DosiServ releases in the past did not bring a lot of visible features but were necessary to maintain the application at a good level from cybersecurity point of view.



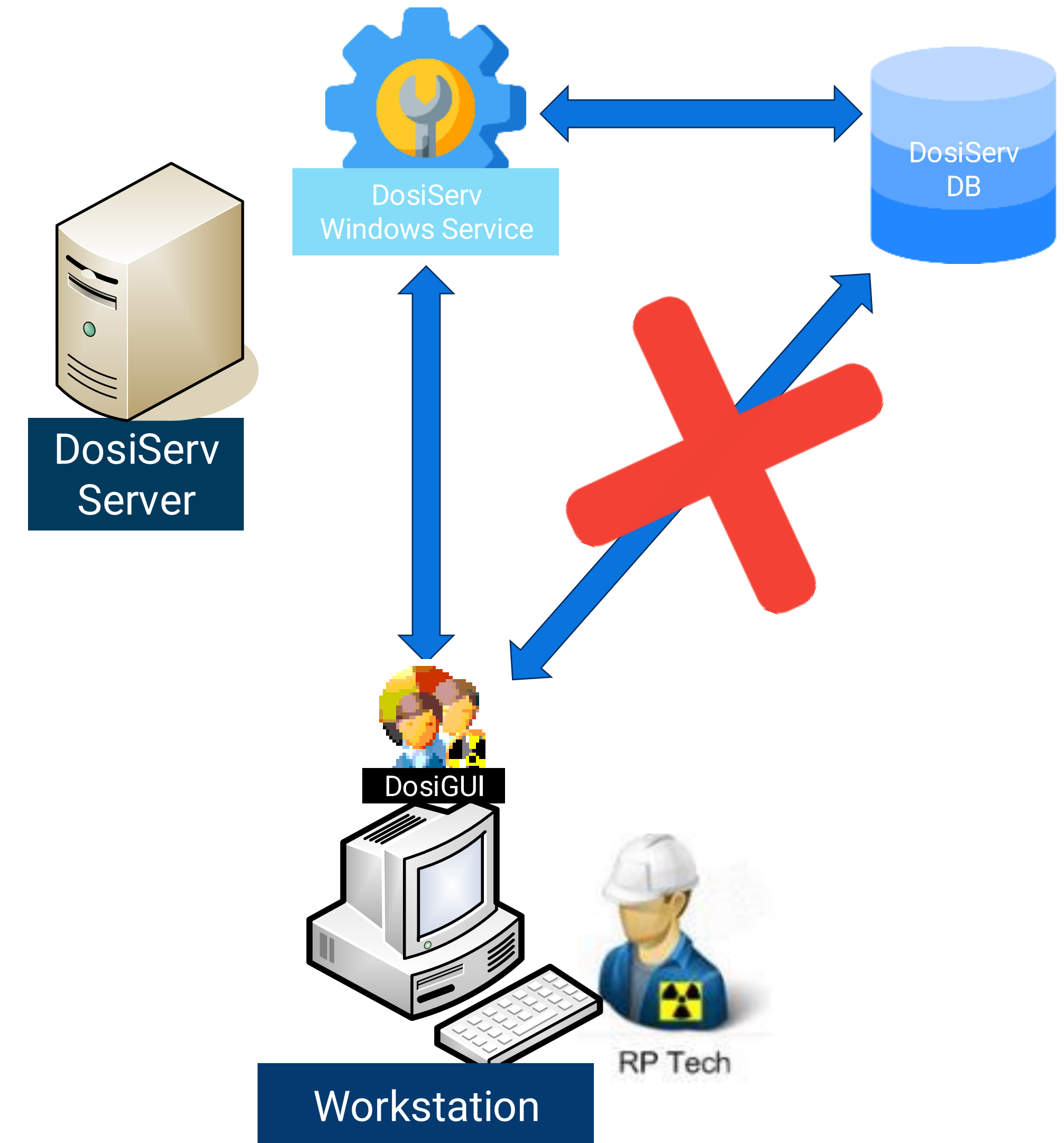
Securing Client / Server communication

DosiServ is a client / server application.

DosiServ client application, DosiGUI, is a desktop application running on the workstations.

DosiGUI does not connect directly to the database.

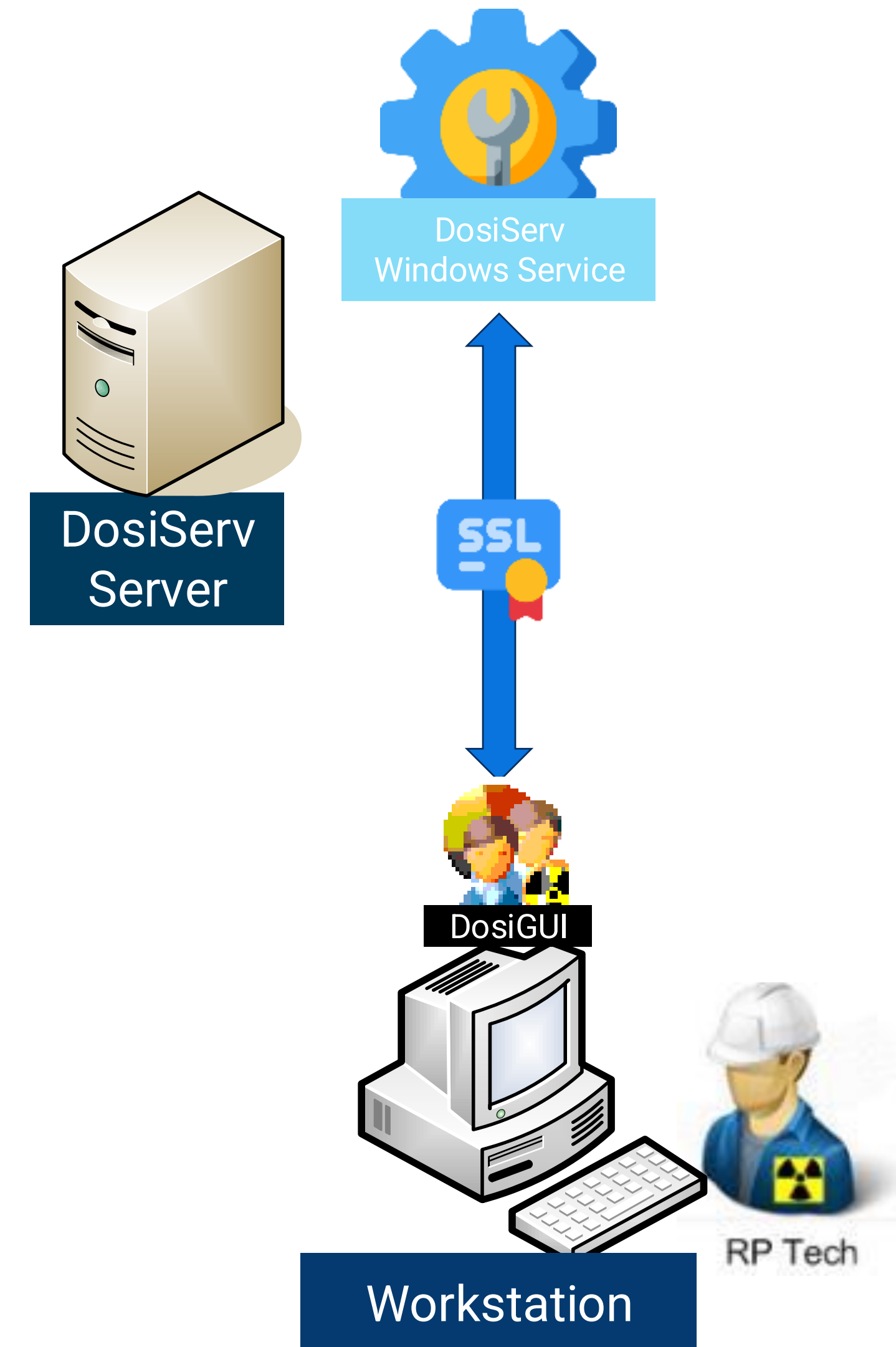
DosiGUI connects to a dedicated Windows Service running on the DosiServ application server.



Securing Client / Server communication

In addition, communication between DosiGUI (client) and the Windows Service running on the DosiServ Server is encrypted using certificates.

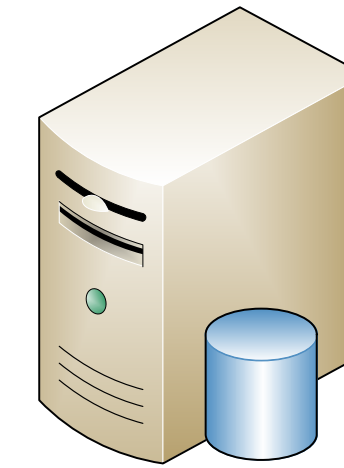
By default, DosiServ uses its built-in self-signed certificates but the system can be configured to customize the certificates to be used.



Securing Reader / Server communication

Part of the challenges to maintain DosiServ up-to-date in terms of cybersecurity, there is the needs to provide up-to-date & secure protocols with new equipment and to maintain reasonable backwards compatibility with the existing legacy systems.

The communication with the readers perfectly illustrates this compromise.



DosiServ Server



LDM2000

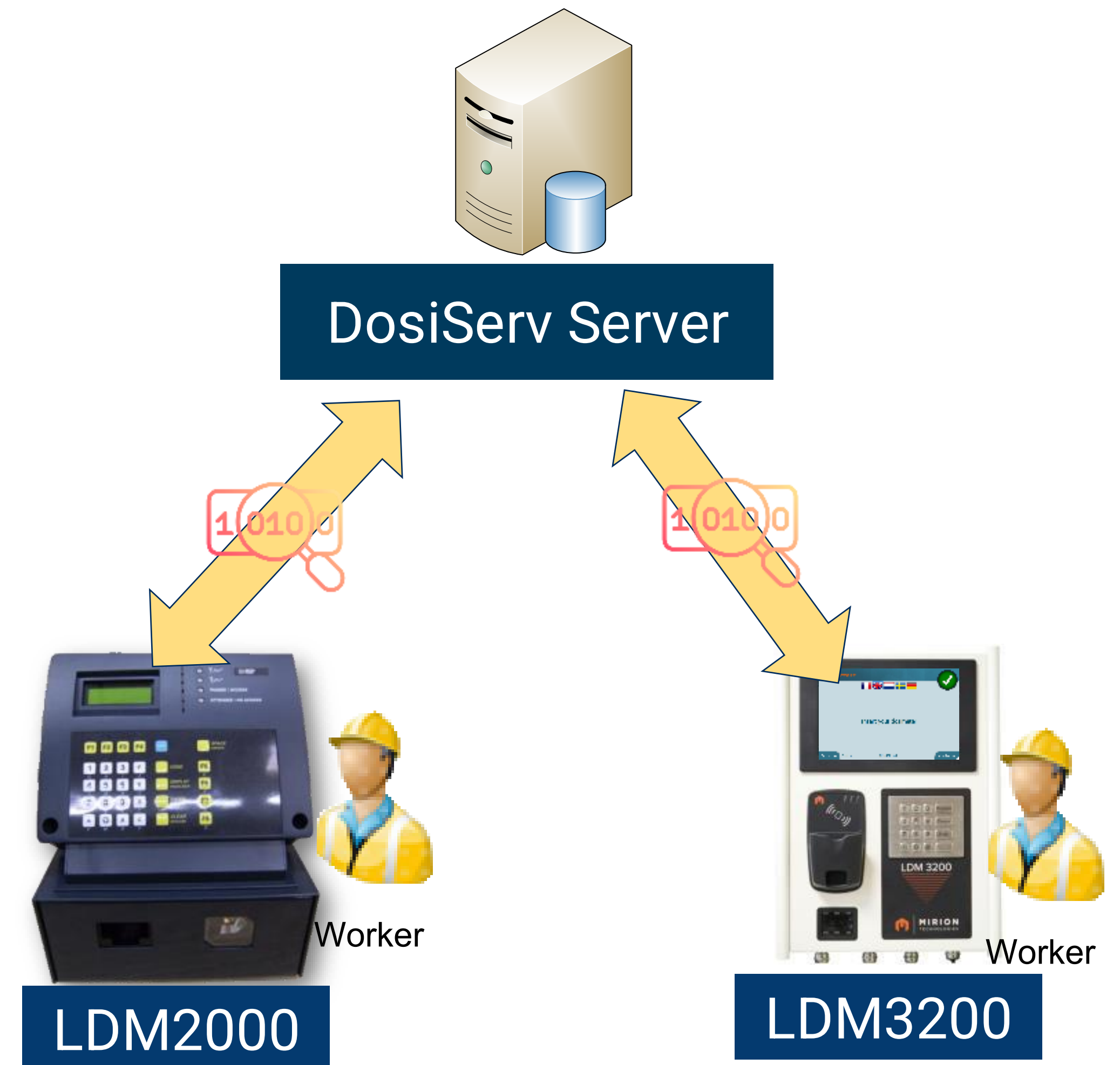


LDM3200

Securing Reader / Server communication

The first releases of DosiServ implemented the existing socket based protocol between LDM2000 and DosiView.

When LDM3000 application was launched, the same protocol has been initially used.

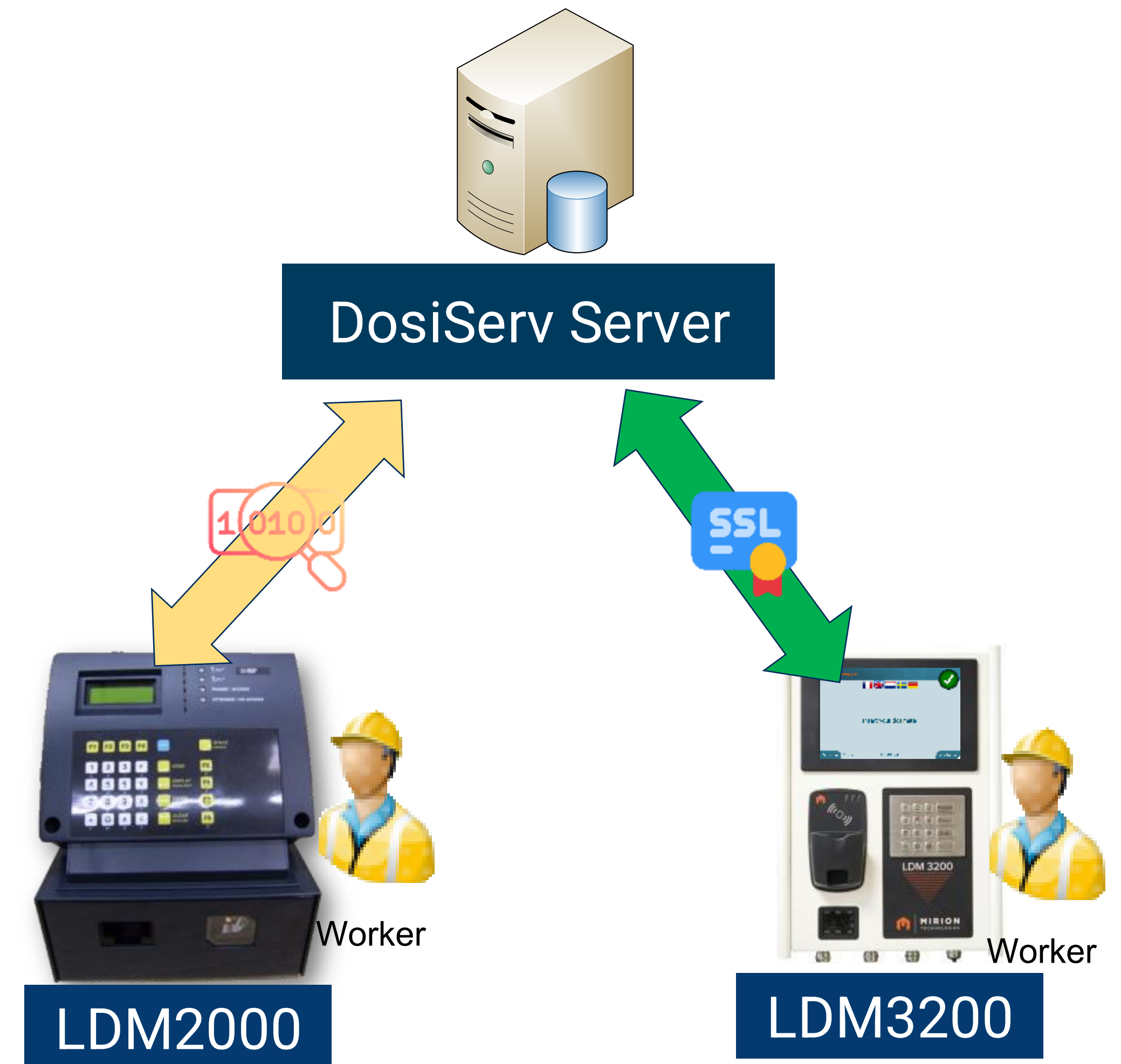


Securing Reader / Server communication

The first releases of DosiServ implemented the existing socket based protocol between LDM2000 and DosiView.

When LDM3000 application was launched, the same protocol has been initially used.

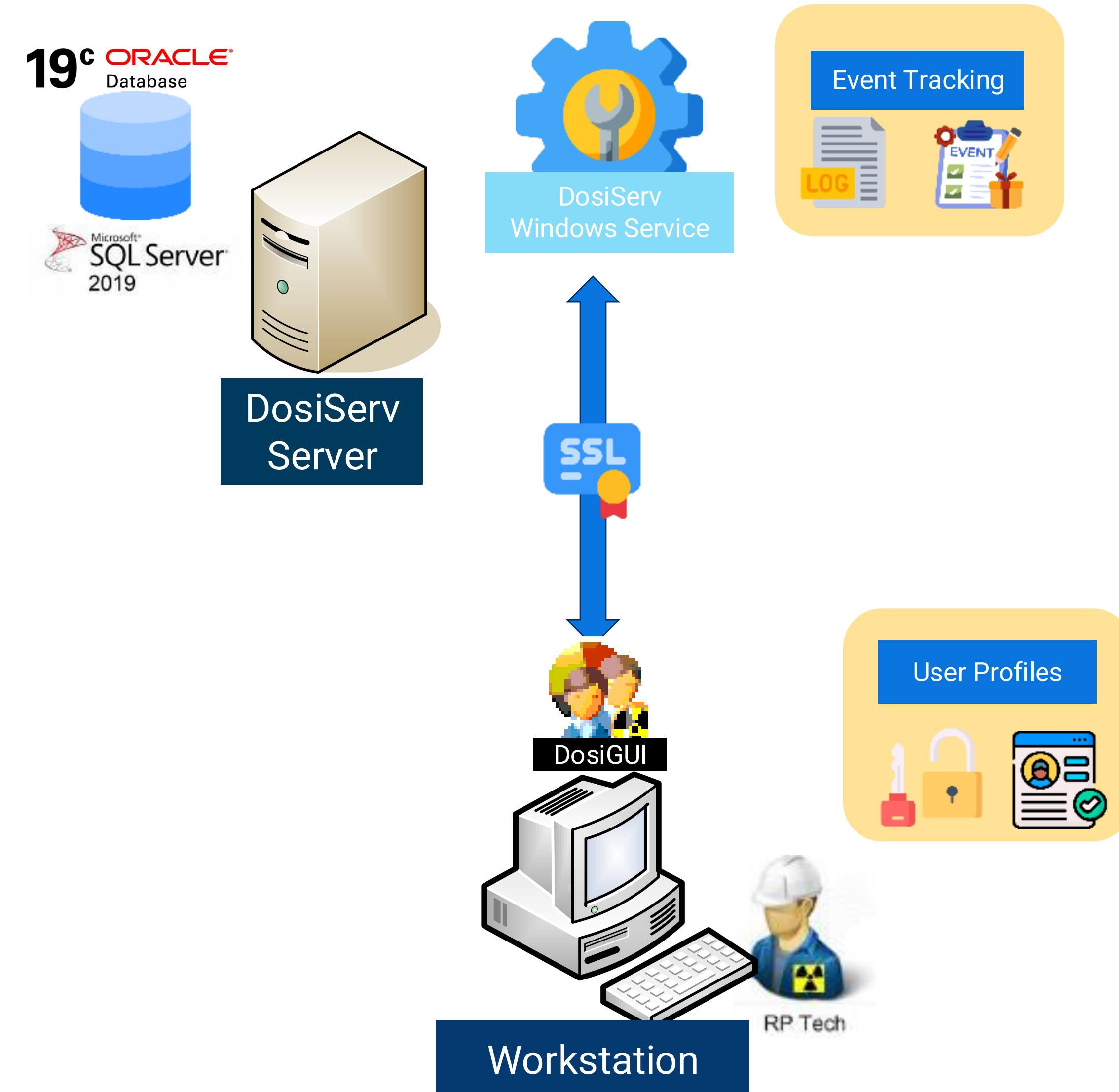
Then, to improve security and to extend possible features, the protocol between LDM3000 and DosiServ has been redesigned. That opened the door to new features (list display, smart offline...) and to a more secure communication involving encryption (using certificates).



Securing DosiServ Application

DosiServ itself implements some mechanisms to secure the application:

- User profiles management to guarantee users will authenticate and access to authorized data only.
- Event tracking (application logs, event logs, journal tables) to keep track of all important information
- Used of Oracle or SQL Server which are proven DB engines.



Securing DosiServ Application

Another cybersecurity related feature will be included in DosiServ 2023 SP1.


It concerns PII (Personal Identifiable Information).


It will be possible to enable a parameter so that PII will be hidden when data is not edited.


Worker Details


Last Name:
First name

Mr *****


 Information

 Dosimetry

 Access

 Additional fields

Worker information

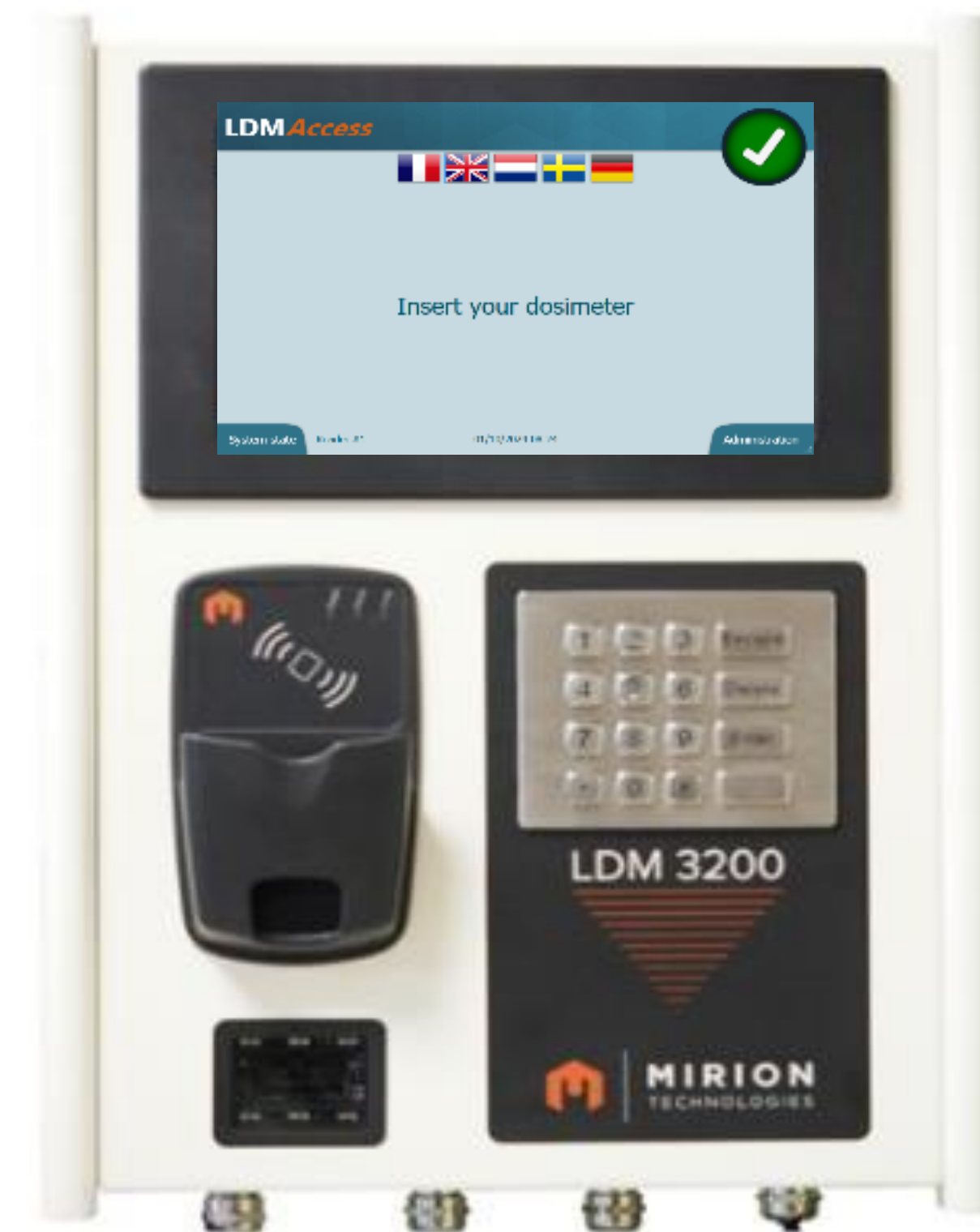
Title	
Last Name	*****
First Name	****
Sex	 Man
Pregnancy criteria	<input type="checkbox"/>
Birth name	
Worker Id	8592
Social Security Number	
Usual name	
Nickname	*****
Additional names	
Birthday	*****
Place of birth	
Country of birth	
Nationality	
Nationality No.	
ID / passport No.	
Exterior worker num	
External ID of the worker	341653
Locker number	
Comments	
Contact name	
Contact phone	

Address of worker

Street address	*****
Postal code	****

Securing Reader Equipment

Mirion is currently working on a Support Contract Offer to maintain reader equipment up-to-date (Operating System and SW)



WINDOWS UPDATE



DosiServ – Part 3

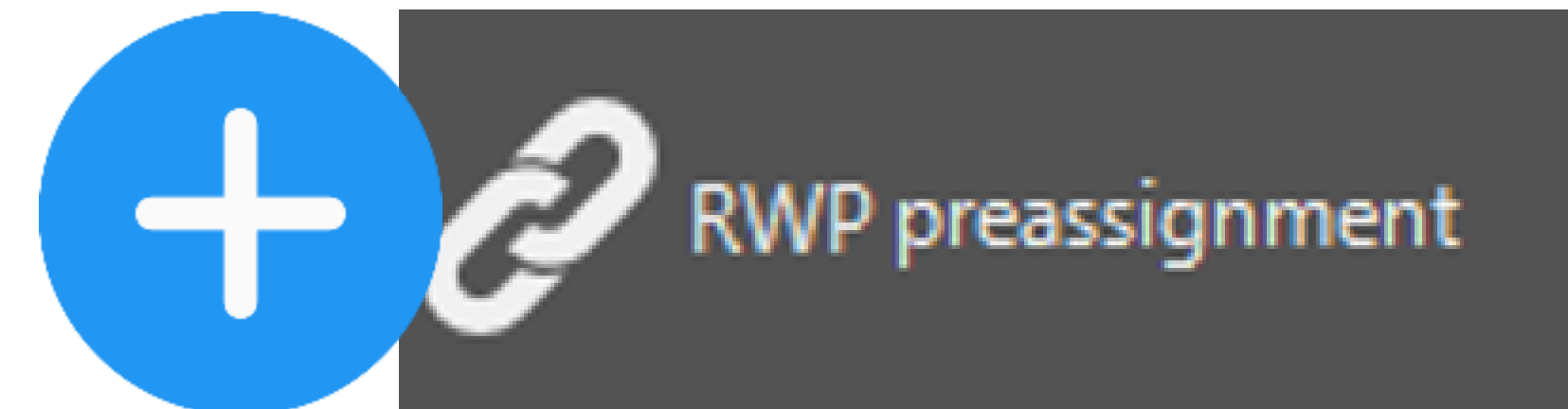
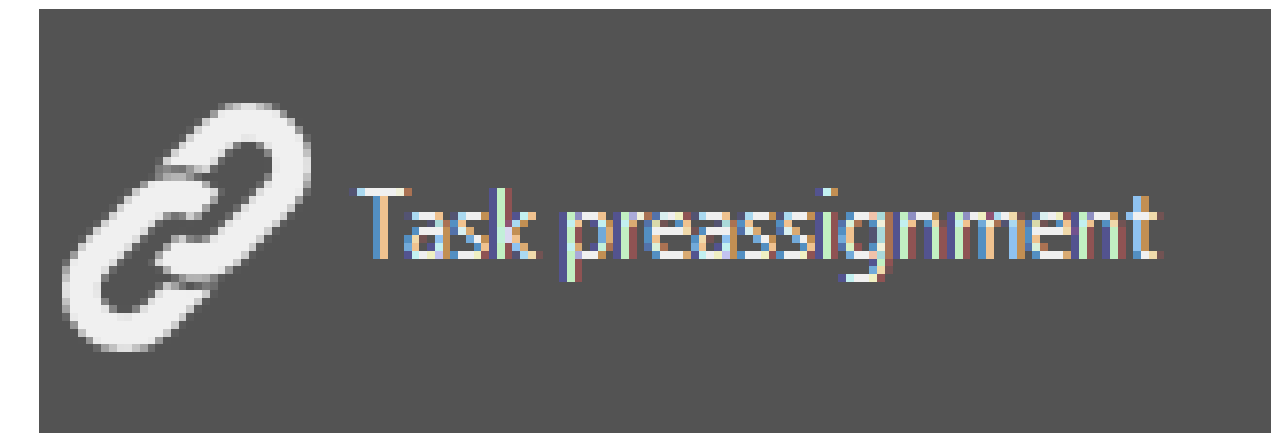
- DosiServ & Legal dose
- DosiServ & Equipment Management
- Data Migration to DosiServ
- DosiServ 2026
 - Cybersecurity
 - New features

New Features

RWP PRE ASSIGNMENT

Pre assignment of RWP as it is possible today with tasks.

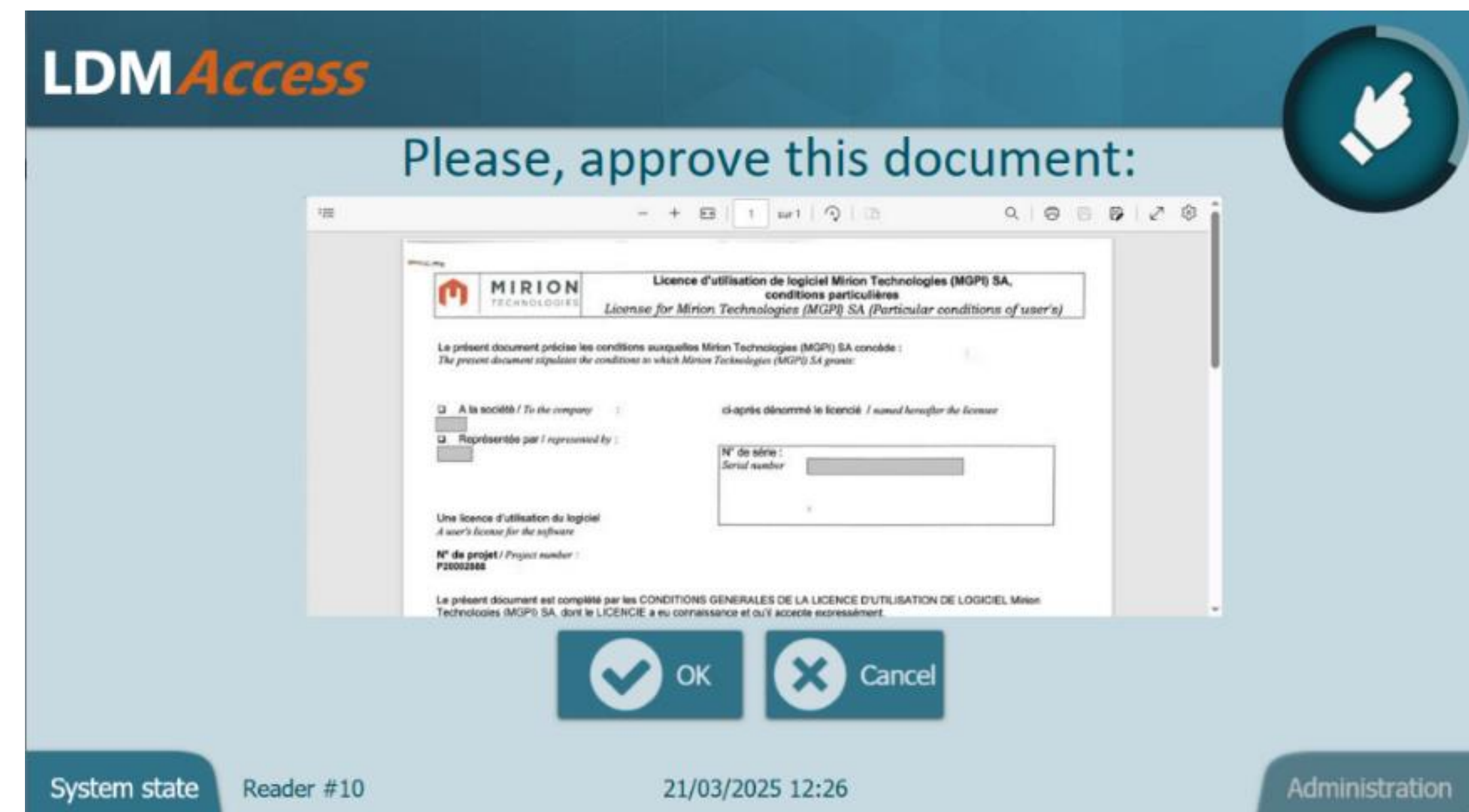
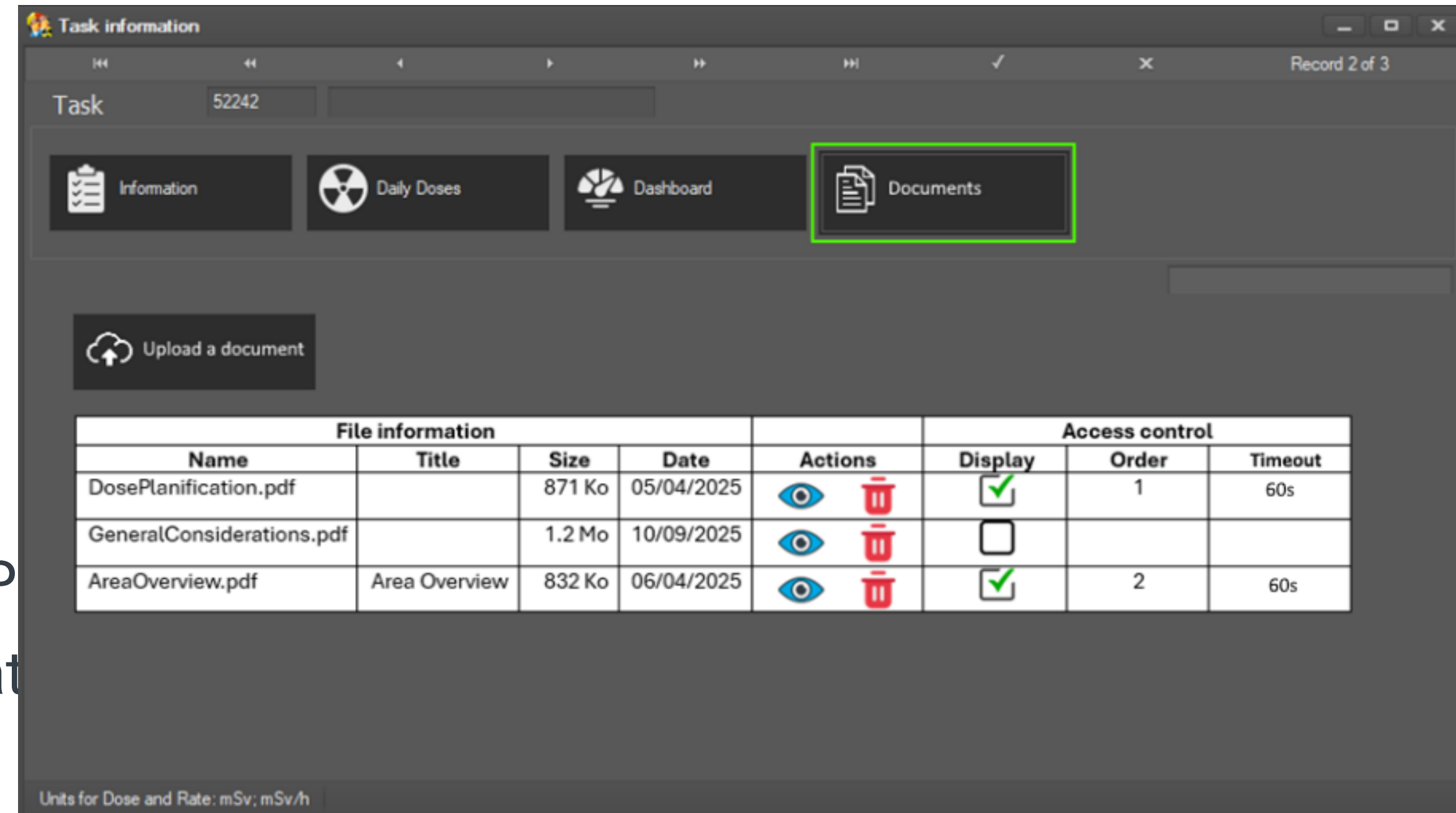
When a valid RWP is pre assigned to a worker, the worker does not have to type/select a RWP and his pre assigned RWP will be automatically linked to the visit.



New Features

DOCUMENT ATTACHMENTS AND DISPLAY (DosiServ + LDMAccess)

- Attach true document attachment to RWP
- Be able to display documents on reader at access time



New Features

RWP Type

Approval level

High Risk ?

Red Zone?

Task required ?

Medium

High

Low

☒

☐

☒

RWP Authorizations and Workflow

- Authorization Levels
 - In RWP
 - At profile Level
 - At User Level
- Authorization work-flow

DOSISERV Interface - mgp/lmn-l-hmichel - Factory - CONFIG SITE - [List of user profiles]

File Window Help LDMX20 configuration

Navigation Control bar

Record 6 of 8

Bookmarks

Administration

Users

Name

Administrator

Doctor

Factory

Operator

RP TECH

RSO

Details

GUI rights

Name:

RSO

RWP Approval level

High

Medium

Low

Comments:

DOSISERV Interface - mgp/lmn-l-hmichel - Factory - CONFIG SITE - [Users information]

File Window Help LDMX20 configuration

Navigation Control bar

Record 4 of 5

Bookmarks

Administration

Users

User information

Miscellaneous

Validity period (in days)

User name	Phone No.	E-Mail	RWP Appro	Profile	Reset password	Blocked	Area group	valid to	Expiration period (in days)
JSMITH		jsmith@myorg.com	High	RSO SUPERVISOR	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
HMICHEL		hmichel@myorg.c...	Medium	RSO	<input checked="" type="checkbox"/>	<input type="checkbox"/>		24/04/2025	4
TSMITH		tsmithsmith@myo...	Medium	RP TECH	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
TBRADY		tbrady@jsmith@m...		RP TECH	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
SJONSON		sjonsson@myorg...		RP TECH	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

New Features

RWP Authorizations Origin

- Authorization Levels
 - By Worker
 - By Company
 - By Section
 - Generic

Worker Details

Record 3 of 1000

Last Name:First nameInsurance No.ID Number

MrRodriguezMichael1012

Information

Dosimetry

Access

Additional fields

Tasks / Areas / Rwp

Visits

Equipment

DIS

Dashboard

Available RWP

RWP No.	RWP operator code	Comments	Status
2024-02	02	Inspection of reactor containment vessel for integrity assessment.	Authorized
2024-06	06	Periodic health physics survey of the facility.	Authorized
2024-11	11	Quality control checks of personal protective equipment.	Authorized
2024-76	76	Assessment of radiation dose rates in operational areas.	Authorized
2024-86	86	Verification of shielding effectiveness in high radiation zones.	Authorized
2024-89	89	PUMP replacement	Draft
2024-93	93	Safety inspection of fuel handling system.	Authorized

Assigned RWP

RWP No.	Briefed	Origin	RWP Revision	Open	valid from	valid to
2024-95	<input checked="" type="checkbox"/>	W	0 95	<input checked="" type="checkbox"/>	14/12/2023	13/12/2025
2024-24	<input type="checkbox"/>	W	0 24	<input type="checkbox"/>	14/12/2023	13/12/2025
2024-25	<input type="checkbox"/>	W	0 25	<input type="checkbox"/>	14/12/2023	13/12/2025
2024-58	<input type="checkbox"/>	W	0 58	<input type="checkbox"/>	14/12/2023	13/12/2025
2024-25	<input type="checkbox"/>	S	0 25	<input type="checkbox"/>	14/12/2023	13/12/2025
2024-58	<input type="checkbox"/>	C	0 58	<input type="checkbox"/>	14/12/2023	13/12/2025
2024-25	<input type="checkbox"/>	S	0 25	<input type="checkbox"/>	14/12/2023	13/12/2025
2024-58	<input type="checkbox"/>	G	0 58	<input type="checkbox"/>	14/12/2023	13/12/2025

Task authorization

Area Authorization

RWP authorisation

Task preassignment

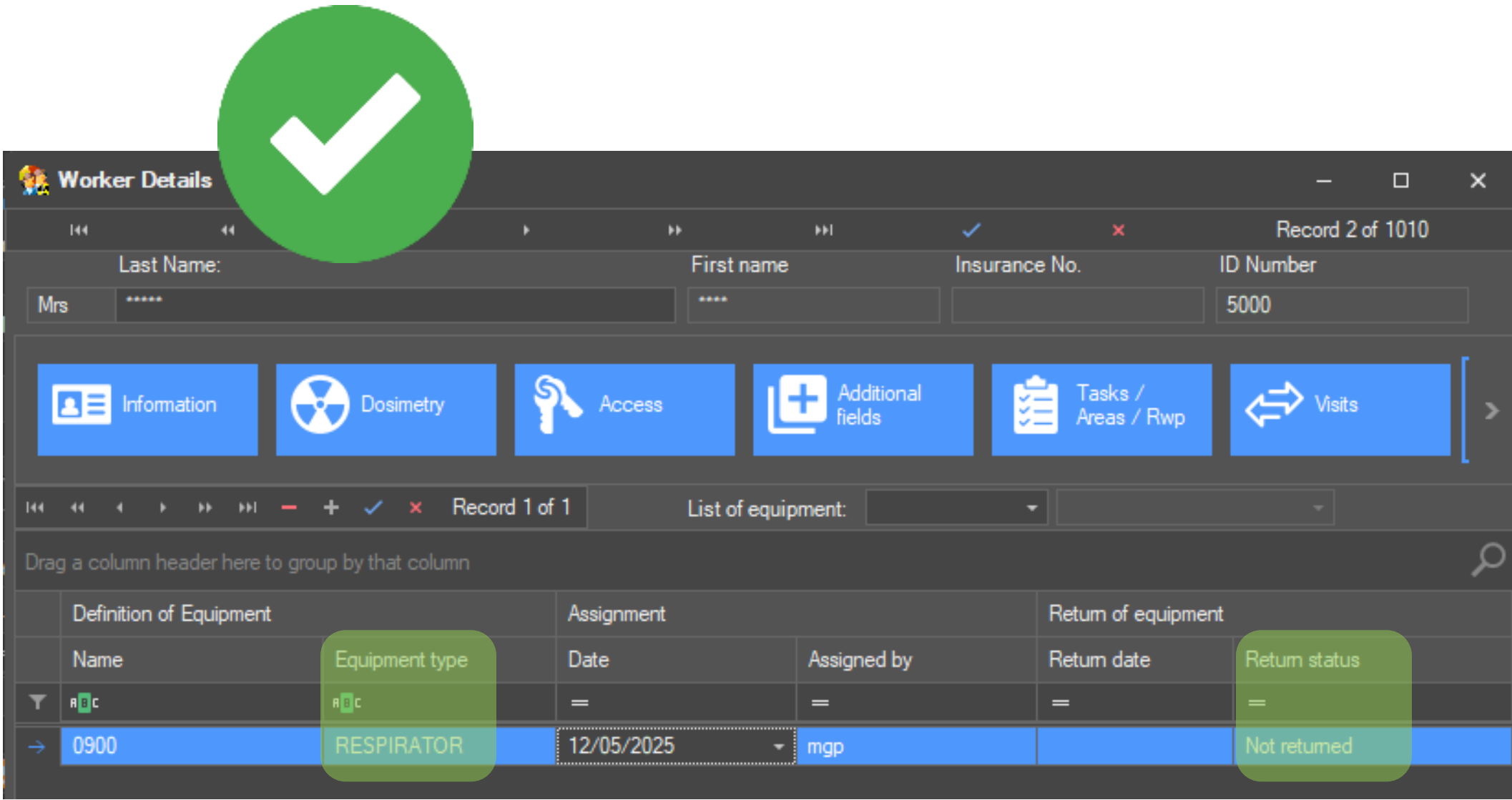
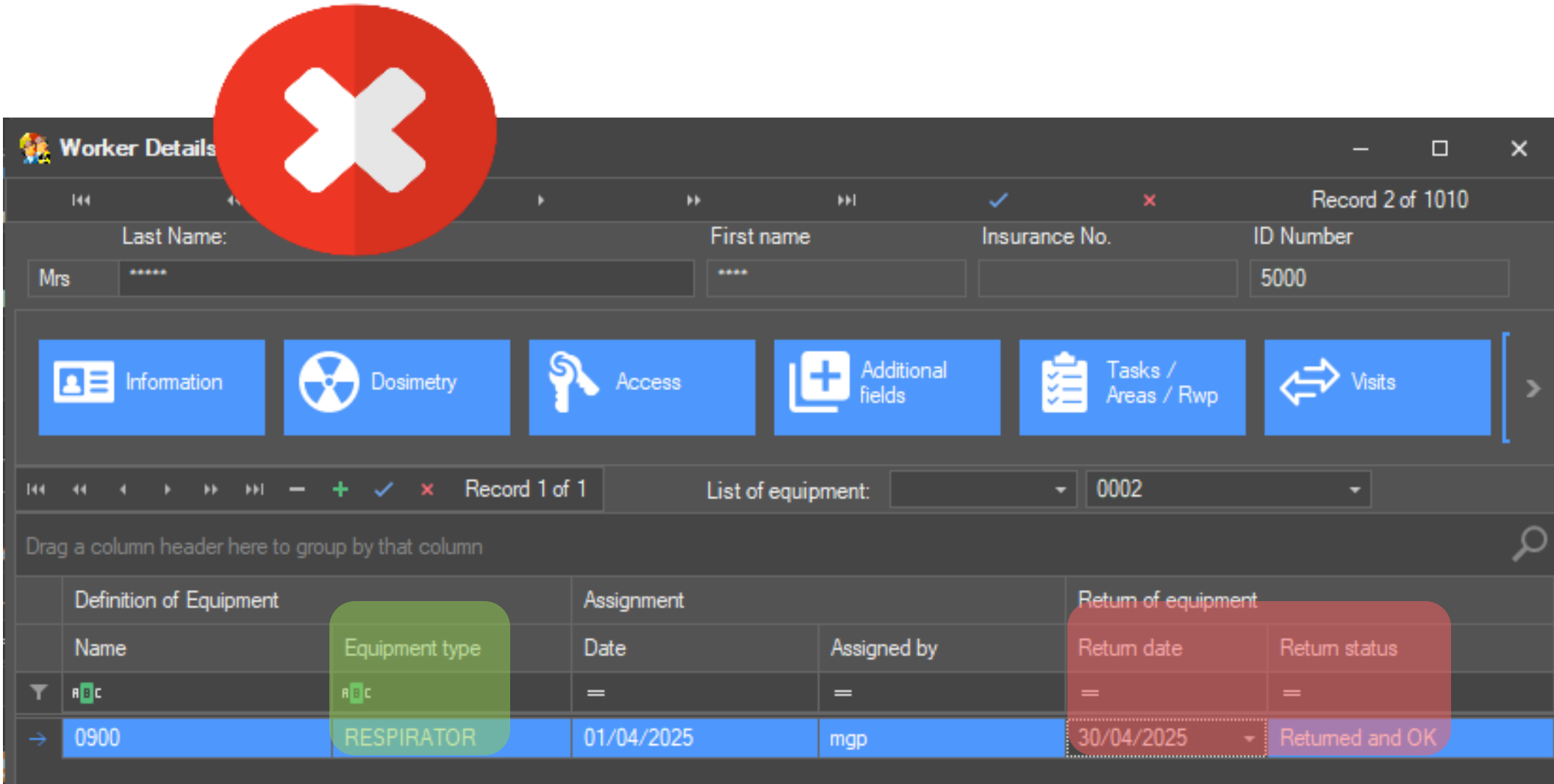
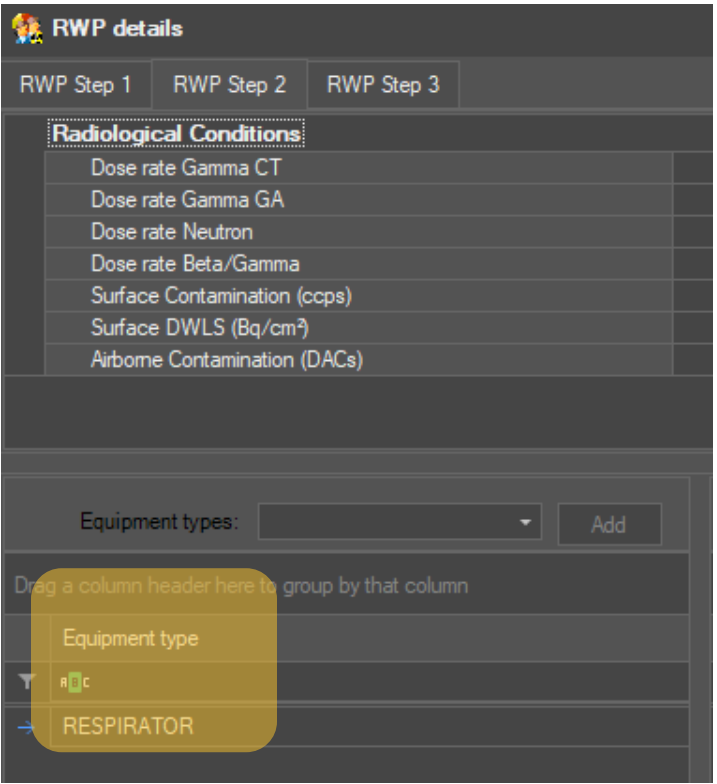
Units for Dose and Rate: mrem; mrem/h

New Features

EQUIPMENT ASSIGNMENT CHECK AT ACCESS CONTROL TIME (TASK AND RWP)

Possibility to link equipment types to RWP (already possible) and Tasks (new).

At Access Control time, if a worker selects a Task or RWP linked to an equipment type, then if the workers does not have a valid equipment assignment for this equipment type then access will be denied.



New Features

EQUIPMENT CHECK AT ACCESS CONTROL TIME (DosiServ + LDMAccess)

When a RWP or a Task requiring an equipment type is selected, then it will be possible to configure the system to ask equipment scan on the LDMAccess SW to verify that the worker is properly equipped.



New Features



Additional Inputs

- The 3 inputs limitation could be overcome now. Being able to allow ID, TLD, RWP and Task inputs for an access sequence is a target for future releases.
- In addition, from discussions with US customers, having another possible input, Work Orders, in addition to RWPs and Tasks would make sense too.

New Features



More Flexible Inputs Configuration

- Having more data inputs makes the needs of an intuitive and flexible configuration even bigger.
- Being able to accommodate with reader's offline mode has to be considered too.

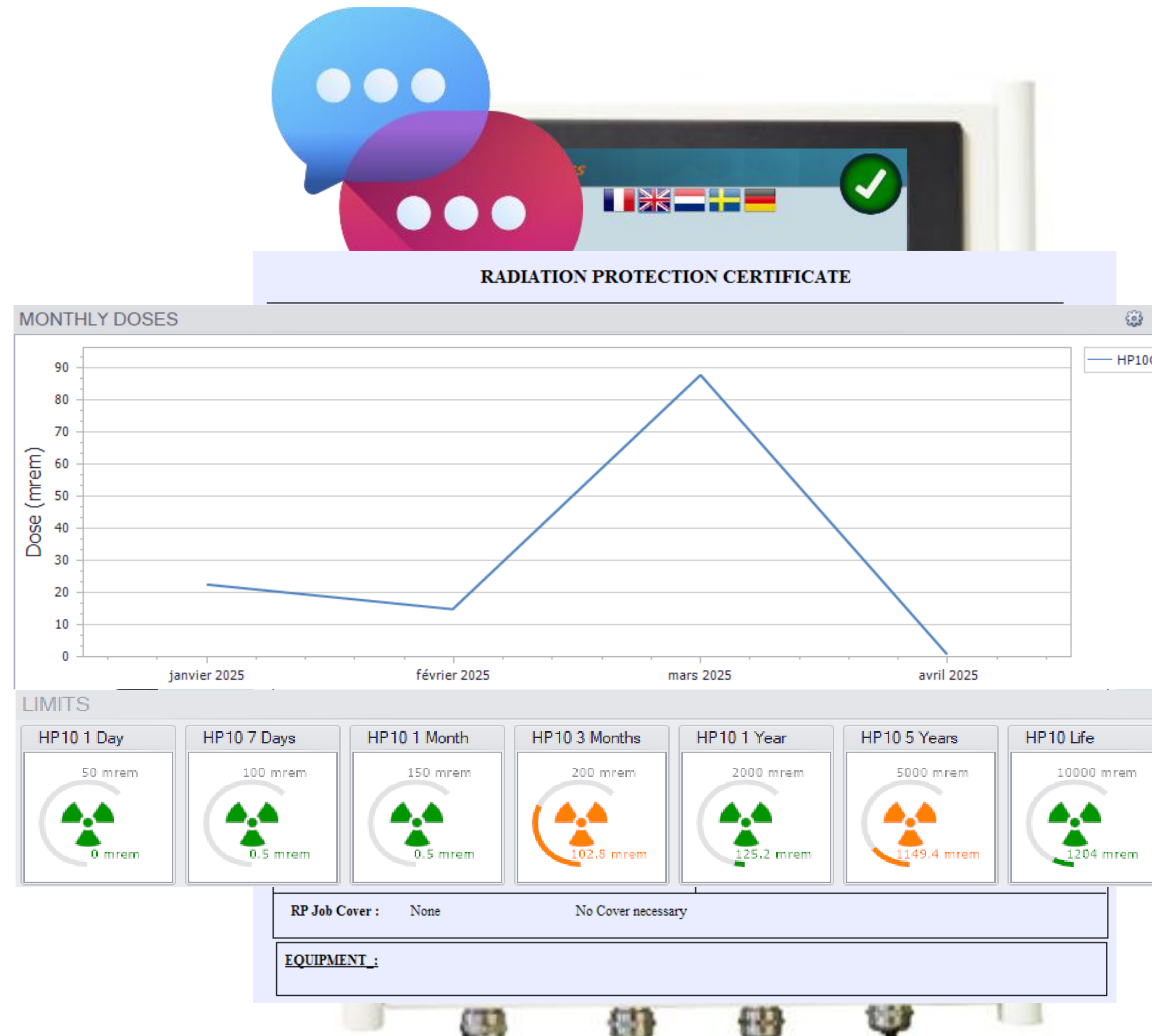
New Features



New Worker Authentication methods

- Mirion is currently investigating new options for workers authentication on the reader:
 - Facial recognition
 - Fingerprint scanning
 - ...

New Features



Additional Information Display

- Displaying more information to the worker during the access control sequence is currently investigated.
- The information could be made of:
 - Question/Confirmation (Y/N).
 - Display of RWP Instruction
 - Display of worker's dosimetry
 - Any information that would be valuable...

New Features

SURVEY MANAGEMENT

Built-in Survey management modules that will allow keeping track of the performed surveys.

This will also come with a survey instruments follow-up module and a source control management module.

Radiological Survey Details

Instrument

Dosimeter events

Instrument	Instrument event	Start date	End date	Comment
=	=	=	=	ABC
Instrument: E-600 - 01817 B				
E-600 - 01817 B	Calibration	05/01/2025	04/01/2026	Calibration Check - Alpha Efficiency 30% - Beta Efficiency: 9.9% - Pass
Instrument: L-177 - 00650				
L-177 - 00650	Calibration	27/04/2025	26/04/2026	
L-177 - 00650	Repair - Vendor	07/01/2025	13/02/2025	Sent to Vendor for display Issue
Instrument: Ludlum 9-4 - 01805				
Ludlum 9-4 - 01805	Scrap	30/01/2024	30/01/2024	Instrument Scrapped
Ludlum 9-4 - 01805	Calibration	05/01/2024	05/01/2024	Initial Calibration Check - Failed

Drag a column header here to group by that column

Instrument	Source	Reading						
Type	S. Number	C. Number	Calibration Due Date	PCF	Source Id	Nuclide	Source reading	Unit
Source Id	Initial activity	Initial activity unit	Location	Nuclide	Last update			
ABC	=	ABC	ABC	=	=			
HP28/S	366300.0	Bq	Counting Lab	Cs-137	01/12/1999			
HP76/S	373700.0	Bq	Counting Lab	Cs-137	01/12/1999			
HP83/S	3700.0	Bq	Counting Lab	Am-241	01/12/1999			
HP85/S	7400.0	Bq	Counting Lab	Cl-36	01/12/1999			
HP25/S	296.0	kBq	Counting Lab	Cs-137	01/12/1999			
HP16/S	296.0	kBq	Counting Lab	Cs-137	01/12/1999			
HP41/S	1.9	GBq	Counting Lab	Cs-137	01/12/1999			
HP81/S	11100.0	Bq	Instrument Store	Sr/Y-90	01/11/2000			
N299	0.0	Bq	Counting Lab	Am/Be	14/04/2000			
HP109/SU	199.8	Bq	Counting Lab	Tc-99	19/07/2000			
HP106/SU	337.0	Bq	Counting Lab	Th-230	09/09/2002			
HP148/S	2400.0	Bq	Counting Lab	Dep U	13/07/2005			
RP36/S	1190.0	Bq	Counting Lab	Pu-239	13/07/2005			
HP80/S	11100.0	Bq	Counting Lab	Sr/Y-90	25/01/2006			
IL/6	2789.9	Bq	Instrument Store	Tc-99	20/06/2011			
RP48/S	41.9	kBq	Instrument Store	Co-60	27/05/2014			
KRP005	3.0	kBq	L212	Cs-137	12/08/2014			
RP49/S	9.3	kBq	L212	Co-60	12/08/2014			













New Features

LOCALIZATION HELPER IMPROVEMENTS

The tool used to customize labels or to add new languages will be improved.

FormLocalization

DeleteLoadSaveLaunch Tools.LocalizationHelperLaunch Old Form Version

	<input type="checkbox"/>	ComponentName	Path	Hardcoded	cs_CZ	de_CH	de_DE	en_GB	en_US	es_ES	fr_FR	sv_SE	zh_CN	IsNew	IsNotFromGui	IsNotFoundInTheAss...
▼														<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	accordionControl				Accordion control			Contrôle accordéon			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	accordionControl				Accordion control			Contrôle accordéon			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	Custom 2	Stavový řádek	Statusleiste	Barre de statut	Status bar	Barre de statut	Barre de statut	Barre de statut		Barre de statut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	Custom 3	Lišta menu	Menüleiste	Menu bar	Menu bar	Menu bar	Menu bar	Barre de menu		Menu bar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	Custom 4	Lišta hledání	Suchleiste	Suchleiste	Search bar	Search bar	Search bar	Barre de recherche	Sökfält	搜索栏	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	Reports	Zprávy	Berichte	Reports	Reports	Reports	Reports	Rapports		Reports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	Search	Vyhledávání	Suchen	Search	Search	Search	Search	Recherche		Search	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	navBarPanel	Navigační řídící lišta	Navigations Steuerlei...	Navigation Control bar	Navigation Control bar	Navigation Control bar	Navigation Control bar	Barre de Navigation		Navigation Control bar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	FormList	Lišta menu	Menüleiste	Menu bar	Menu bar	Menu bar	Menu bar	Barre de menu		Menu bar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	treeViewPanel	Tree view panel	Menübaum	Menübaum	Tree view panel	Tree view panel	Tree view panel	Menu arborescent	Trädstruktur	树状视图面板	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	treeViewPanel	Tree view panel	Menübaum	Menübaum	Tree view panel	Tree view panel	Tree view panel	Menu arborescent	Trädstruktur	树状视图面板	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	printReport	Vytisknout report	Drucke den Bericht	Print the report	Print the report	Print the report	Print the report	Imprimer le rapport		Print the report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItem3										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItem4										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItem4										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	&About...	&About...	Über...	&About...	&About...	&About...	&About...	A &Propos...		&About...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItemAbout	O...	Über...	About...	About...	About...	About...	A propos...		About...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	Active Menu	Aktivní menu	Aktives Menü	Active Menu	Active Menu	Active Menu	Active Menu	Menu Actif		Active Menu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItemActive...				Active Menu			Menu Actif			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	&Close	&Close	Schliesse	&Close	&Close	&Close	&Close	&Quitter		&Close	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItemClose	Konec	Beende	Quit	Quit	Quit	Quit	Quitter		Quit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	Tout fermer		Alles schließen	Alles schließen	Close All	Close All	Close All	Tout fermer	Close All		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItemCloseAll				Close All			Tout fermer			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	&Help...	&Hilfe...	&Hilfe...	&Hilfe...	&Help...	&Help...	&Help...	&Aide		&Help...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItemHelp	Pomoc	Hilfe	Help	Help	Help	Help	Aide		Help	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	LDMX20Configuration	LDMX20 configuration	LDMX20 Konfiguration	LDMX20 Konfiguration	LDMX20 configuration	LDMX20 configuration	LDMX20 configuration	Configuration LDMX20	LDMX20 configuration		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barButtonItemLDMX2...		LDMX20 Konfiguration	LDMX20 Konfiguration	LDMX20 configuration			Configuration LDMX20			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiAreaWorkerTrac...	DosiSingleWindowEnt...	barEditItemCulture							Configuration LDMX20			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FormDuplicationAssistant															
Ligne de référence : (les textes de la ligne de référence peuvent être modifiés)															
	Component Na...	Path	Hardcoded	cs_CZ	de_CH	de_DE	en_GB	en_US	es_ES	fr_FR	sv_SE	zh_CN	Is New	Is Not Found I...	Is Not From Gui
	DosiAreaWorke...	DosiSingleWind...	Name	Název	Name	Name	Name	Name	Name	Nom		Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	DosiGui.Config...	EquipmentConf...	Name	Název	Name	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	DosiGui.Config...	EquipmentHisto...	Name	Název	Name	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	DosiGui.Interfa...	StringId.LookU...	Name	Název	Name	Name	Name	Name		Nom	Name	名称	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
▶	DosiGui.Main	SingleWindowE...	Name	Název	Name	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	DosiGui.Reports	ReportViewer....	Name	Název	Name	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	DosiGui.Worker	WorkerDetails....	Name	Název	Name	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appliquer aux langues : cs_CZ, de_CH, de_DE, en_GB, en_US, es_ES, fr_FR, sv_SE, zh_CN															
(Select All)															
Sur les lignes sélectionnées															
	<input type="checkbox"/>	Compo	<input checked="" type="checkbox"/>	cs_CZ											
	<input type="checkbox"/>	DosiAr	<input checked="" type="checkbox"/>	de_CH											
	<input type="checkbox"/>	DosiAr	<input checked="" type="checkbox"/>	de_DE											
	<input type="checkbox"/>	DosiGu	<input checked="" type="checkbox"/>	en_GB											
	<input type="checkbox"/>	DosiGu	<input checked="" type="checkbox"/>	en_US											
	<input checked="" type="checkbox"/>	DosiGu	<input checked="" type="checkbox"/>	es_ES											
	<input type="checkbox"/>	DosiGu													
	<input type="checkbox"/>	DosiGui.Reports	ReportViewer....	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiGui.Worker	WorkerDetails....	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiGui.Worker	WorkerDetails....	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiGui.Worker	WorkersExter....	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiGui.Worker	WorkerSmartD...	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiGui.Worker	WorkerSmartD...	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiGui.Worker	WorkerSmartD...	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DosiGui.Worker	WorkersMonth...	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶	<input checked="" type="checkbox"/>	Tools.Localization...	FormUpdateLo...	Name	Název	Name	Name	Name	Name	Nom	Namn	名称	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OKCancel															
AppliquerFermer															

New Features

QUARTERS OR MASTER PERIODS

It could be interesting to have the possibility to define "master periods" that would englobe one or multiple periods.

Having this notion would make it possible to have quarters defined and specific limits set for those master periods.

That would be a substitute to having Quarters defined (which would also be interesting).

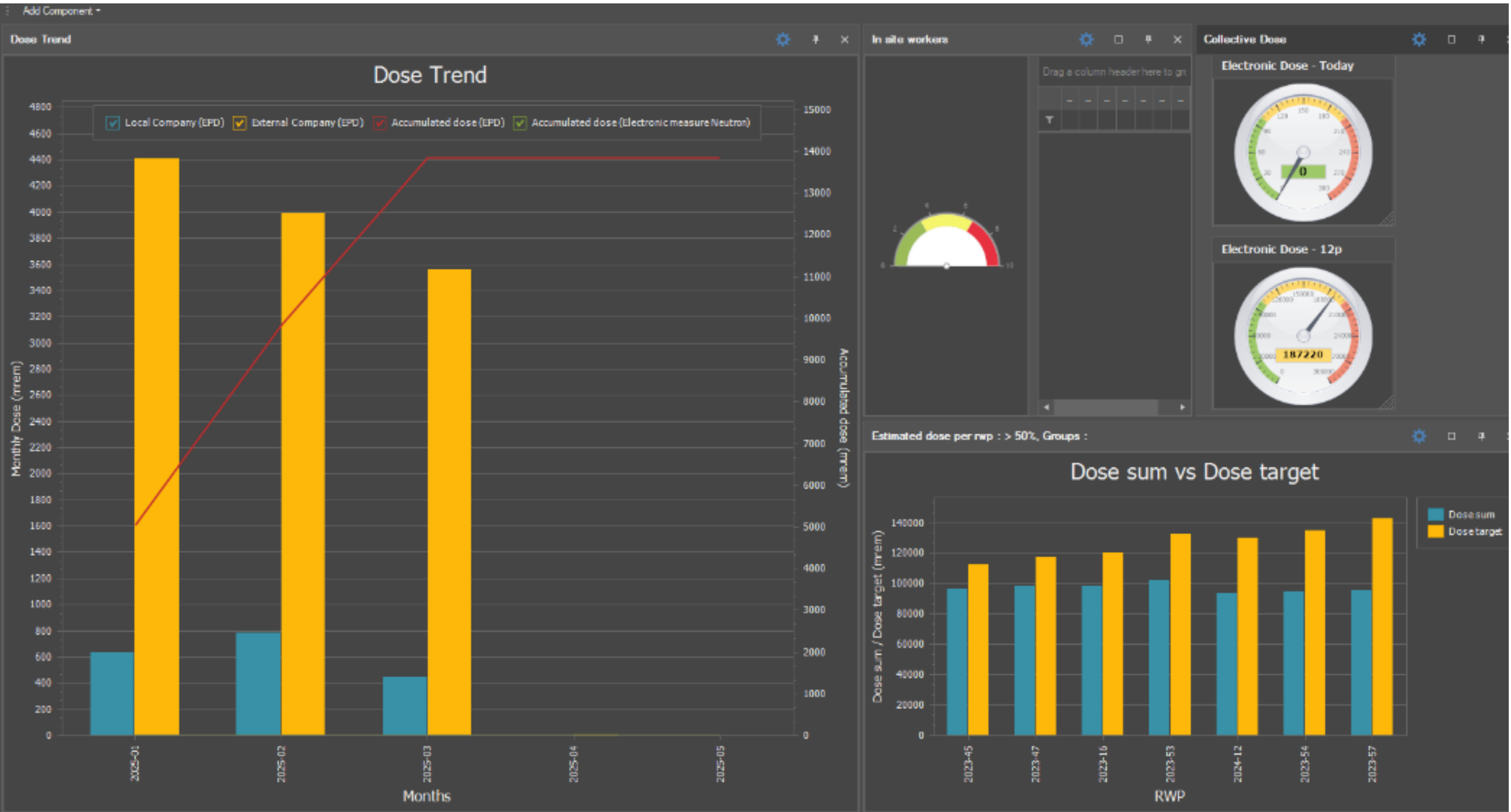


New Features

NEW DASHBOARD COMPONENTS

New components on the Dashboard will be investigated.

Contaminations events trend follow-up could be one of them.



New Features

ADDITIONAL VISUAL INDICATORS IN WORKER LIST

- New visual indicator to highlight workers with personal limits.
- Qualifications component improved to be able to display in a popup the qualification that is outdated/not fulfilled.

Summary		General worker information					Additional work
W_	A_	Sex	Last name	First name	Identification No.	Category	Company n_
=	=	=	ABC	ABC	ABC	=	ABC
		?	AAA	AAAA		A	Advanced _
			Adams	Anna	5000	A	IFE2
			Adams	Olivia	9912	A	Tech React_
			Adams	Mark	8592	A	Quantum P_
			Adams	Lori	7044	A	Prime Energ_
			Adams	Jennifer	9031	A	Prime Atom _
			Aguilar	Kim	5718	A	Global Nucl_
			Alexander	Elijah	3860	A	Tech Energ_

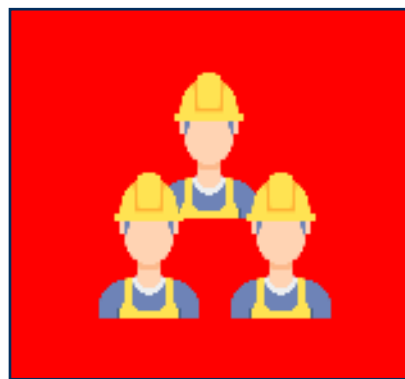


Medical Exam

New Features

IMPROVEMENT IN DISPLAY OF CONTAMINATION RELATED INFORMATION

- OKG request: distinguish the single contamination passage with the multiple ones (several passages attempted for the same contamination event).



Worker contamination detail

- Contamination measurement details display: focus on contaminated channels at screen opening.

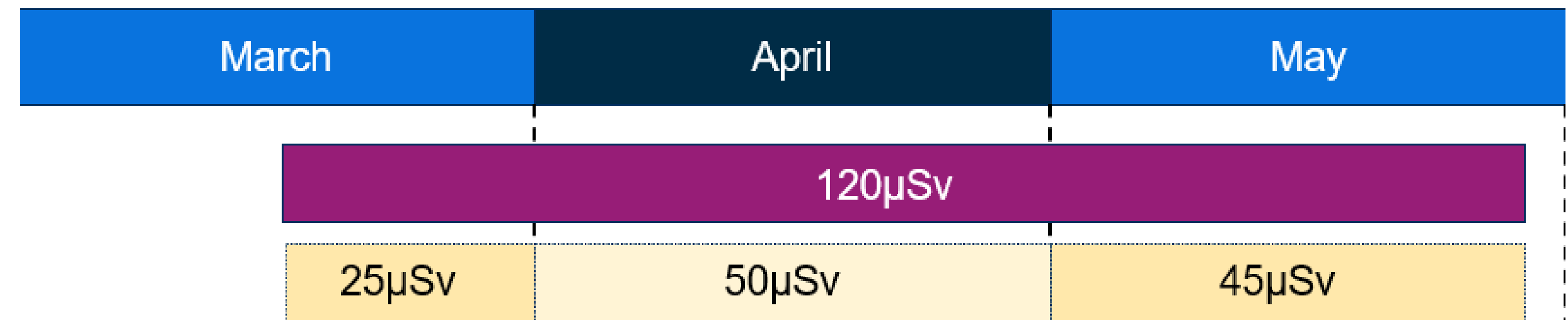
New Features

WORKER DOSIMETRY GANTT VIEWER

- Implementation of a Gantt doses viewer in DosiGui, focused on a worker and a selected period of dates.

That Gantt viewer will display:

- Periods
- Daily doses
- Worker Measures
- Worker Measures Bits
- Worker Period Doses of all types



New Features

MISCELLANEOUS

- Possibility to manage Area RWP authorization
- Customize histogram step based on job/RWP (limitation for job change)
- Implement some visits sanity checks to highlight visits inconsistencies (similar than what has been done with the challenges concept in UK Dosimetry approval)
- Visualization Rights Helper: Provide an intuitive manner to customize the user profiles for DosiGUI.

LDMACCESS

- Display explicit message when a dosimeter is denied due to its status word verification: for instance incorrect status → Battery removed
- Smart offline : dose rate alarm management in SmartOffline Access control (Worker, rwp and task).

New Interfaces and Supported Systems

LEGAL DOSIMETRY

- Built-in interface with Instadose management system
- Built-in interface with BeOSL dose control system



Technologies Block Upgrade

UP-TO-DATE SW COMPONENTS

- Maintaining compatibility with the latest Operating Systems and DB Engines
- Upgrade to the latest development tools versions

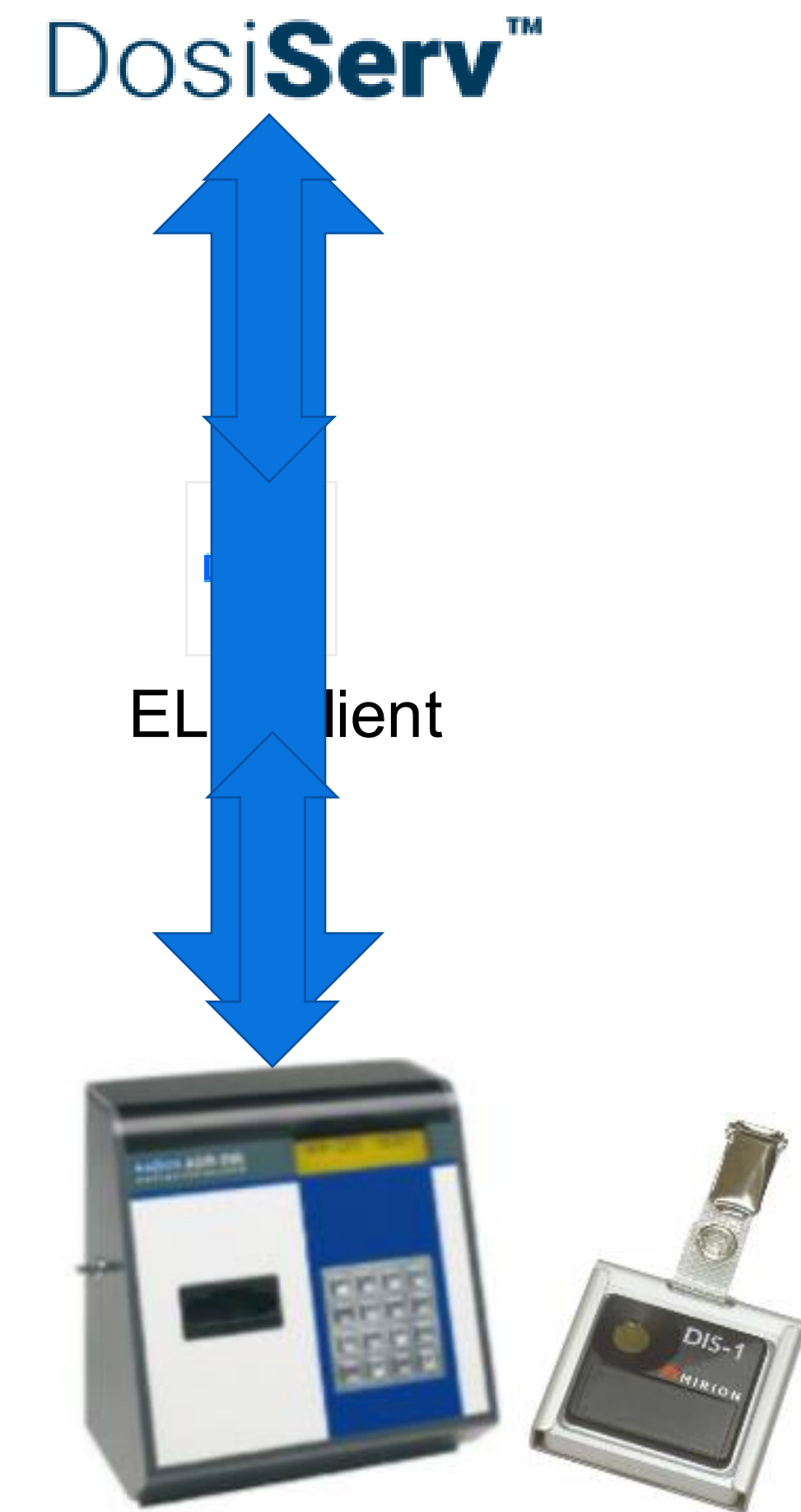
The Oracle logo, featuring the word "ORACLE" in a bold, red, sans-serif font with a registered trademark symbol.The DevExpress logo, featuring an orange and black square icon followed by the word "DevExpress" in a bold, sans-serif font.

Technologies Block Upgrade

ELD CLIENT REPLACEMENT

The ELD Client software is used by DosiServ to manage the DIS-1 DBR reader.

ELD Client is based on deprecated technologies and for future DIS-1 support redesigning an integrated communication module between DosiServ and the DBR readers seems to be the path to follow.



Technologies Block Upgrade

SSO

CONNECTION TO ACTIVE DIRECTORY

The current Single Sign On feature in DosiServ could be improved to connect to an Active Directory domain to check users authorizations and DosiServ profiles.



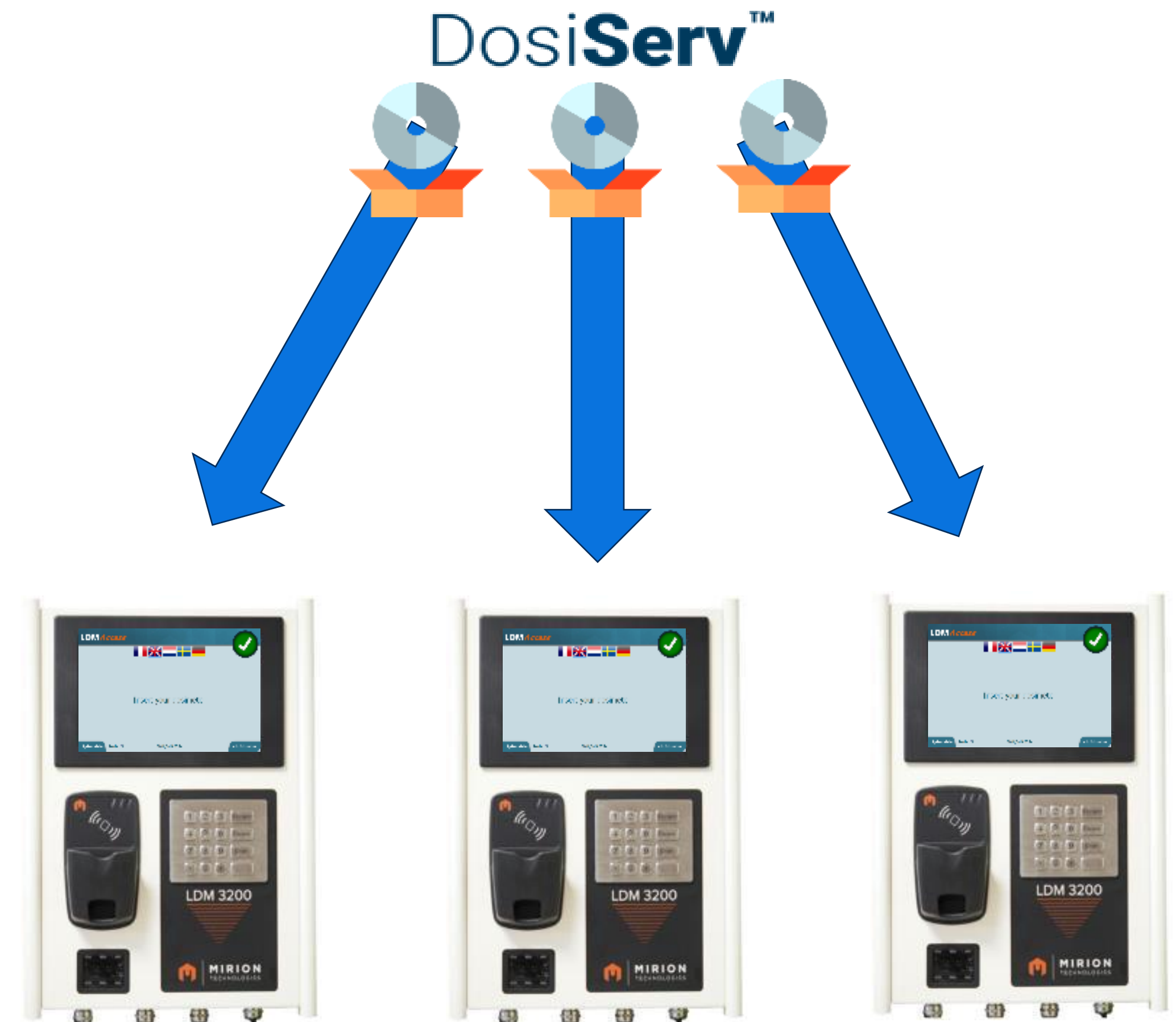
Technologies Block Upgrade

LDMAccess RELEASE DEPLOYMENT FROM DosiServ

The possibility to push reader software update from DosiServ could be valuable since remote access is very often blocked on LDM3200/LDM1000 readers.

On the same idea, having the possible to reset the readers from DosiGUI could be investigated.

An alternative could be a LDMAAdmin Webpage.



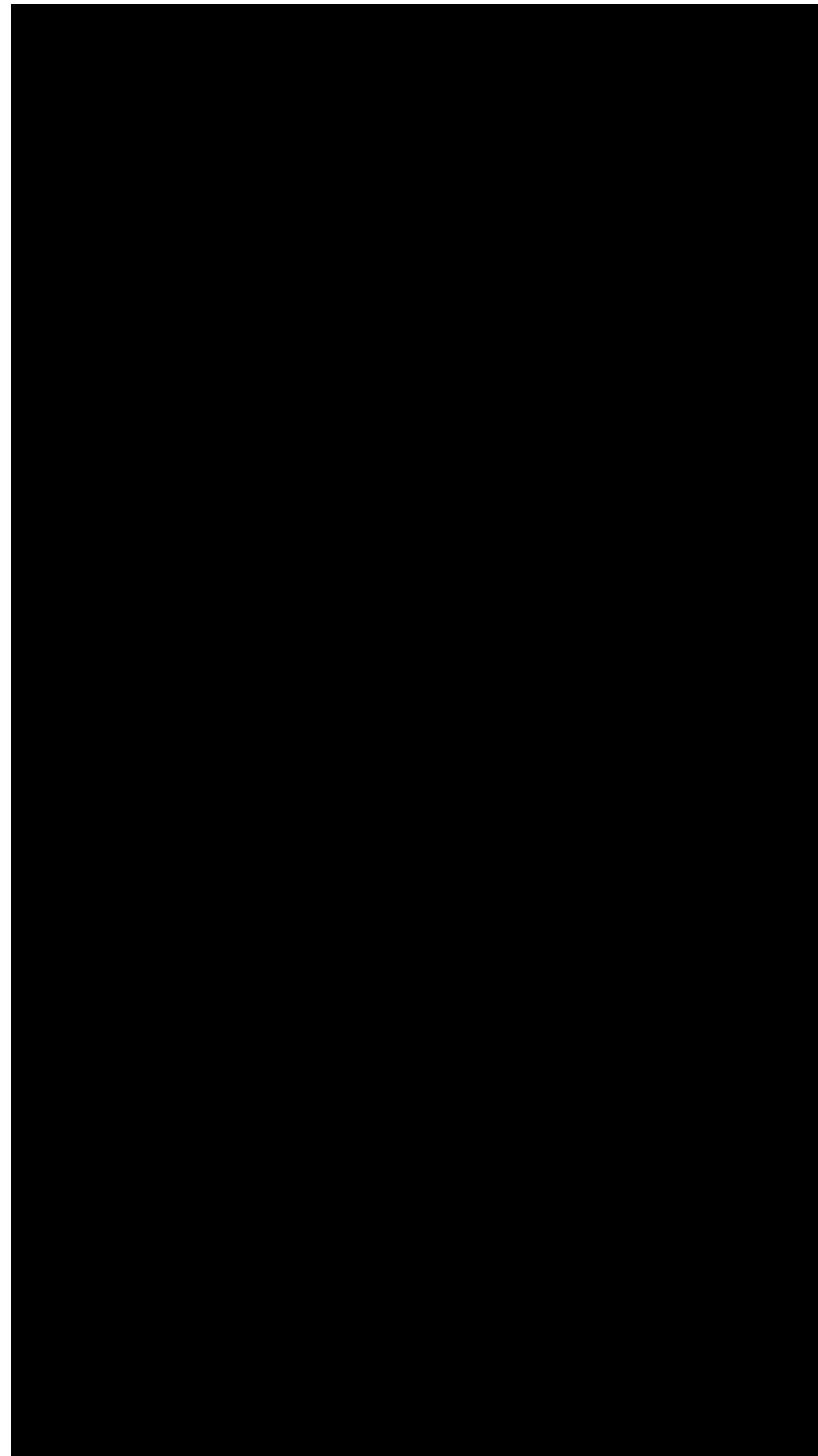
LDMAccess / DosiServ Protocol Improvements



Other 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

LDMAccess / DosiServ Protocol Improvements



Other Extended Capabilities

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DosiServ – Part 3

- DosiServ & Legal dose
- DosiServ & Equipment Management
- Data Migration to DosiServ
- DosiServ 2026
 - Cybersecurity
 - New features
 - Access control
 - Form 4 / Form 5

Form 4 Input

Form 5 Output



Connect 2023
Annual Users' Conference

FORM 4 / FORM 5

Last Name:First nameInsurance No.ID Number

MrAndersonKelly190011179969

- Information
- Dosimetry
- Access
- Additional fields
- Tasks / Areas / Rwp
- Visits
- Equipment
- DIS
- Dashboard
- Contamina...

Hide Column

Hide Column

Show all

Electronic dosimetric summary

Dose type	HP10G	HP10N	HP10	HP007	HP3	Officielle	Complement	Estimée	Complement	Limit	HP10 difference	HP007 difference	HP10 percent	Official difference	Offici
Daily dose															
Day	0,000	0,000	0,000	0,000	0,000					50,000	50,000		0,000		
7 days	0,000	0,000	0,000	0,000	0,000										
30 days	0,000	0,000	0,000	0,000	0,000										
Monthly doses															
1 Month	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000						
3 mon...	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000						
Year	33,000	0,000	33,000	0,000	0,000	833,000	0,000	833,000	0,000	1000,000	967,000		3,300	167,000	
5 years	544,870	0,000	544,870	0,000	0,000	833,000	0,000	1344,870	511,870						
Life dose															
Life d...	544,870	0,000	544,870	0,000	0,000	833,000		1344,870							

Contributive doses

Others

Dose type	TLD G	TLG N	IDLR	INTAKE	TRI	EDEX
Monthly doses						
1 Month	0,000	0,000	0,000	0,000	0,000	0,000
3 mon...	0,000	0,000	0,000	0,000	0,000	0,000
Year	0,000	0,000	0,000	0,000	0,000	833,000
5 years	0,000	0,000	0,000	0,000	0,000	833,000
Life dose						
Life d...	0,000	0,000	0,000	0,000	0,000	833,000

FORM 4 / FORM 5

Reports

Report viewer form

rs

rs dose report

rs list report

out report


s denial

Form 4 C

NRC FORM 4

(11-202 0)

10 CFR PART 20



U.S. NUCLEAR REGULATORY COMMISSION

CUMULATIVE OCCUPATIONAL DOSE HISTORY

APPROVED BY OMB NO. 3150-0005

Estimated burden per response to comply with this mandatory collection request: 20 minutes. This information is used to ensure that doses to individual do not exceed regulatory limits. This information is required to record/annually report individual occupational exposure to radiation to ensure that the exposure does not exceed regulatory limits. Send comments regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to infocollections.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0006), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; e-mail: oir_submission@omb.eop.gov. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

*Note: Social Security Numbers must not be visible on the outside of any package sent by mail.

1. NAME (LAST, FIRST, MIDDLE INITIAL)			2. IDENTIFICATION NUMBER		3. ID TYPE	4. SEX	5. DATE OF BIRTH	
Anderson Kelly			19001117		SSN	<input checked="" type="checkbox"/> MALE <input type="checkbox"/> FEMALE	11/17/1900	
6. MONITORING PERIOD			7. LICENSEE NAME		8. LICENSE NUMBER(S)		9.	
04/01/2024 08/01/2024			Demo Site		L1		<input type="checkbox"/> RECORD <input checked="" type="checkbox"/> ESTIMATE <input type="checkbox"/> NO RECORD	
11A. EDEX		11B. DDE	12. LDE	13. SDE, WB	14. SDE, ME	15. CEDE	16. CDE	17. TEDE
0,000		0,000	ND	ND	NR	NR	NR	0,000
6. MONITORING PERIOD			7. LICENSEE NAME		8. LICENSE NUMBER(S)		9.	
03/16/2024 03/28/2024			Braidwood		NPF-72		<input checked="" type="checkbox"/> RECORD <input type="checkbox"/> ESTIMATE <input type="checkbox"/> NO RECORD	
11A. EDEX		11B. DDE	12. LDE	13. SDE, WB	14. SDE, ME	15. CEDE	16. CDE	17. TEDE
0,600		ND	ND	ND	ND	ND	ND	ND
6. MONITORING PERIOD			7. LICENSEE NAME		8. LICENSE NUMBER(S)		9.	
03/01/2024 03/15/2024			Beaver Valley		NPF-73		<input checked="" type="checkbox"/> RECORD <input type="checkbox"/> ESTIMATE <input type="checkbox"/> NO RECORD	
11A. EDEX		11B. DDE	12. LDE	13. SDE, WB	14. SDE, ME	15. CEDE	16. CDE	17. TEDE
0,200		ND	ND	ND	ND	ND	ND	ND
6. MONITORING PERIOD			7. LICENSEE NAME		8. LICENSE NUMBER(S)		9.	
01/01/2024 02/28/2024			Local		MY Lic Num		<input checked="" type="checkbox"/> RECORD <input type="checkbox"/> ESTIMATE <input type="checkbox"/> NO RECORD	
11A. EDEX		11B. DDE	12. LDE	13. SDE, WB	14. SDE, ME	15. CEDE	16. CDE	17. TEDE
0,033		ND	ND	ND	ND	ND	ND	ND
19. SIGNATURE OF MONITORED INDIVIDUAL			20. DATE SIGNED		21. CERTIFYING ORGANISATION		22. SIGNATURE OF DESIGNEE	
					LLWR REPOSITORY			

Form 5 Output



FORM 4 / FORM 5

Navigation Control bar

Record 3 of 3

Bookmarks

Administration

Worker

Worker information

Workers list

Tracking list

List of passages

List of visits

Form4 Input

Boresay Headers

Groups of workers

Daily doses

Monthly Doses

External measurements

Contamination measurements

Incorrect passages

Workers Doses Management

Worker Transfer

Creation

Form4

Worker

Form4 Import Form

Record 3 of 3

1. Name

John Doe

2. Identification Number

1234

3. Id Type

OTH

4. Sex

Man

5. Date of birth

27/11/1979

6. Monitoring Start

07/10/2024

6. Monitoring End

21/11/2024

7. Licensee Name

Pome Island

8. Licensee Number

DPR-42

9. Dose Type

RECORD

10. Exposure

ROUTINE

11a. EDEX

0.123

11b. DDE

0.123

12. LDE

0.058

13. SDE, WB

0.890

14. SDE, ME

NO

15. CEDE

0.049

16. CDE

0.073

17. TEDE

0.172

18. TODE

0.196

6. Monitoring Start

15/03/2024

6. Monitoring End

15/06/2024

7. Licensee Name

Idaho National Laboratory

8. Licensee Number

XSNM3714

9. Dose Type

RECORD

10. Exposure

ROUTINE

11a. EDEX

0.055

11b. DDE

0.055

12. LDE

0.041

13. SDE, WB

0.025

14. SDE, ME

NO

15. CEDE

0.046

16. CDE

NO

17. TEDE

0.101

18. TODE

0.055

6. Monitoring Start

03/07/2023

6. Monitoring End

03/07/2023

7. Licensee Name

Wolf Creek 1

8. Licensee Number

NPF-42

9. Dose Type

RECORD

10. Exposure

ROUTINE

11a. EDEX

0.043

11b. DDE

0.043

12. LDE

NO

13. SDE, WB

0.034

14. SDE, ME

NO

15. CEDE

0.059

16. CDE

NO

17. TEDE

0.102

18. TODE

0.043

New Period

19. Sign. of individual

21. Certifying Organization

22. Sign. of Designee

All Doses in rem

BioAssay

Record 1 of 2

Bookmarks

Administration

Worker

Worker information

- Workers list
- Tracking list
- List of passages
- List of visits
- Form4 Import
- Bioassay Headers
- Groups of workers
- Daily doses
- Monthly Doses
- External measurements
- Contamination measurements

Incorrect passages

Workers Doses Management

Worker Transfer

Task/Area/RWP

Dashboard

Dates

- Start date
- End date

Header

Type

Drag a column header here to group by that column

BioassayHeaderForm

Record 1 of 2

Bioassay header

Record

Official

Sample date

22/05/2025

Type

WBC Annual Whole Body

Exposure type

ROUTINE

Datasource

BIO-MANUAL

Intake mode

Absorption

Intake date

22/05/2025

Comments

Input date

22/07/2025

Input user

mgp

Worker

Search

Lastname

Doe

Firstname

John

SSC Number

SSN-444444

Worker ID

1234

External ID

1234

Checkin

☐

Intake records

Organ records

Drag a column header here to group by that column

	Radionuclide	Record type	Class	Intake (uCi)	CEDE
→	AC-223	Official	D	0,0	900,0
	AG-103	Official	D	0,1	110,0

Units for Dose and Rate: mrem; mrem/h


externa...

mpower.
All rights reserved.

Radiological Surveys

General Info
➔ Including RWP
Number

- Rad Info Showing
 - Instruments used
 - Results


Radiological Survey Details
Record 3 of 313

General information

SURVEY_ID	95818
RPC Number	19990002
Survey date	28/03/2012 13:32:28
Survey type	Routine

RP People

Performed by	Van Wyk, Johannes
Reviewed by	

Description

Description	CHEMISTRY ACCESS AREA
-------------	-----------------------

Results

Radiation result template	
---------------------------	--


Radiation instruments

Drag a column header here to group by that column

Instrument					Source		Reading	
Type	S. Number	S. Numb...	Calibration Due D...	BCF	Source Id	Nuclide	Source rea...	Unit
PDR-2		00047	09/01/2013		HP76/5	Cs-137	20	µSv/h

Radiation results

Drag a column header here to group by that column

Ro...	Code				R t...	Description	General area		Contact ...	Dis...	Hot...	
...	...	T...	Description	.	Rate mS...	Zone c...	Rat...	...	H...
					G	ALL AREAS	<	0				

Units for Dose and Rate: mSv; mSv/h

Radiological Surveys

Contam Info
Showing

- Instruments used
- Results

Template will
populate Results
table to be filled up

Radiological Survey Details Record 3 of 313

Create corresponding airborne survey Authorize

General information					Performed by Van Wyk, Johannes				
SURVEY_ID 95818					Reviewed by				
RPC Number 19990002					Description				
Survey date 28/03/2012 13:32:28					Description CHEMISTRY ACCESS AREA				
Survey type Routine					Results				
RP People					Radiation result template				

General information Radiation Information Contamination information Link to gamma spec worksheet Additional information

Contamination instruments Record 1 of 1

Drag a column header here to group by that column

Instrument					Source		Reading		
Type	S. Number	S. Nu...	Calibration ...	Efficiency (%)	Source...	Nuclide	Source re...	Unit	Radiati...
L-177	01633		30/10/2012	9,6	HP109/SU	Tc-99	23 CPS	BG	

Contamination results Record 0 of 0

Drag a column header here to group by that column

Room	Descripti...	Instrum...	Measurements					
Room	Descript...	Instru...	Formula	Contamination...	Background ...	Counts (CPS)	Corrected cou...	Activity (...)

Units for Dose and Rate: mSv; mSv/h

Surveys Gamma spec Workheet

Radiological Survey Details Record 3 of 313

Create corresponding airborne survey Authorize

General information

SURVEY_ID	95818
RPC Number	19990002
Survey date	28/03/2012 13:32:28
Survey type	Routine

RP People

Performed by	Van Wyk, Johannes
Reviewed by	

Description

Description	CHEMISTRY ACCESS AREA
-------------	-----------------------

Results

Radiation result template	
---------------------------	--

General information Radiation Information Contamination information **Link to gamma spec worksheet** Additional information

Contamination instruments Record 1 of 1

Drag a column header here to group by that column

Instrument	Source	Reading
Type	S. Number	S. Nu...
L-177	01633	30/10/2012

Contamination results Record 0 of 0

Drag a column header here to group by that column

Room	Descripti...	Instrum...	Measurements
Room	Descript...	Instru...	Formula
			Contamination...

Units for Dose and Rate: mSv; mSv/h

Connect with a
Gamma Worksheet

Gamma Worksheet
allows to add
general info and
results infos

Gamma Worksheet Survey Details Record 3 of 4

Authorize

General

Gamma Worksheet Id	7827
Creation date	29/03/2007
Title	N281 - NOBLE GAS SAMPLE
Priority	1
Unit	Common
Corresponding survey	
Last update	
Comment	GAMMA SPEC - COUNT FOR 2 HOURS

Sample

Sample type	Gaseous
Sample Quantity (m³)	0,004
Sample start date	29/03/2007 02:25:00
Sample end date	29/03/2007 02:35:00

Filter efficiency (%) 100

Total volume (m³) 0,004

Oil

Responsible person	
Responsible person PAX	0
Discard sample	<input checked="" type="checkbox"/>
Total volume (m³)	0

H-3

Initial volume of water (m³)	0
------------------------------	---

RP People

Performed by	Ian Philander
Reviewed by	

Results Record 1 of 2

Drag a column header here to group by that column

Result	Activity (Bq/m³)	Fraction of DAC	Clearance ratio
Xe-133	2,000000000E+003	4,000000000E-004	
Xe-135	2,490000000E+002	4,000000000E-004	

8,000000000E-004

Airborne Surveys

General Info
→ Including RWP
Number

Airborne results
Showing

- Alpha
- Beta
- Sample info

Airborne Survey Details
Record 1 of 2843

Create corresponding radiological survey

General information

SURVEY: 46002
RPC No: 19990002
Survey Date: 21/07/2006 03:05
Survey Type: Special
RP People: Ian Philander

Description

Descrip: NAB ROUTINE AIRSAMPLE

Counter

Alpha

Counter type	UNK
Counter SN	
Alpha Efficiency (%)	0
Background counts (CPS)	0
Counting time (s)	0

Beta

Counter type	ASP-2E
Counter SN	1225
Beta Efficiency (%)	9,9
Background counts (CPS)	1
Counting time (s)	60

Whole body count required ☐
Isotopic analysis required ☐

Sampler

Sampler type: Hi-Q

Sample

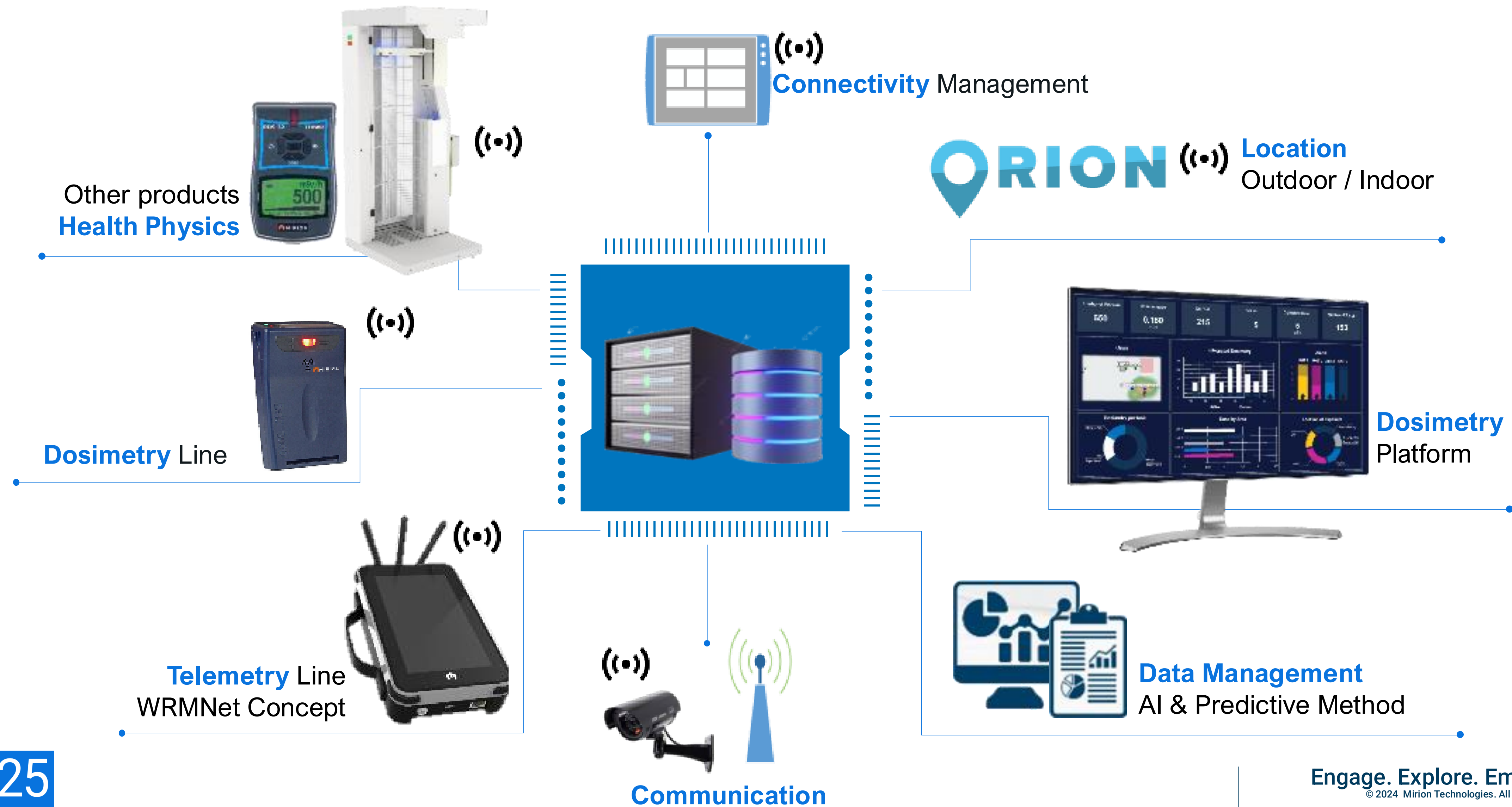
Start sampling date	20/07/2006 01:00
Start sampling flow rate	60
Stop sampling date	21/07/2006 01:00
Stop sampling flow rate	60
Average flow rate	60
Sample volume	86,4
Sample duration	1440

Comments

DosiServ – Part 3

- DosiServ & Legal dose
- DosiServ & Equipment Management
- Data Migration to DosiServ
- DosiServ 2026
 - Cybersecurity
 - New features
 - Access control
 - Form 4 / Form 5
- Roadmap

HP – Dosimetry & Telemetry : Vision 2030



Dose Management & Supervision Solution

DosiServ™



Posteriori Data
Configuration Data



Real Time Location Data
(Telemetry + Location)

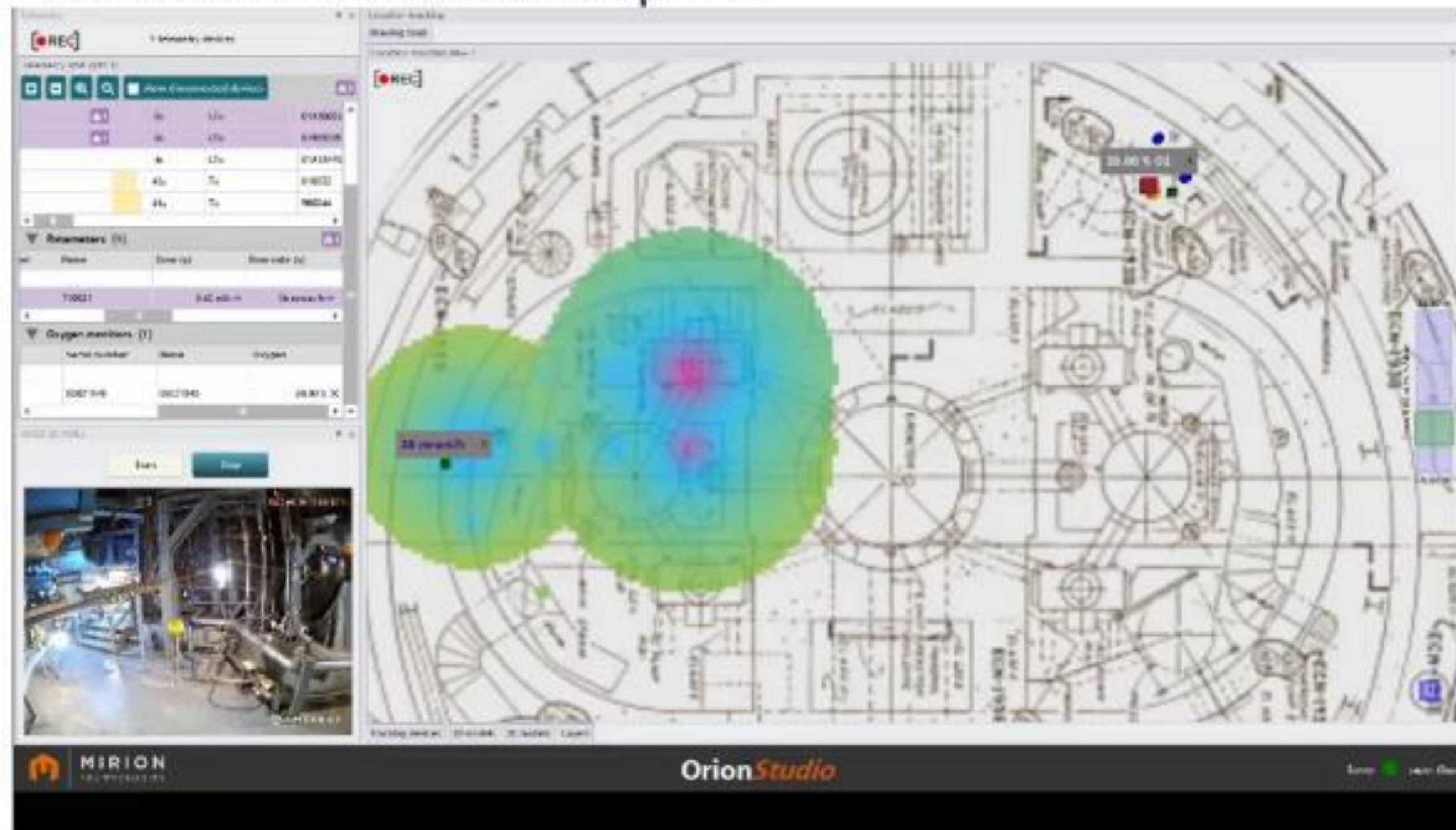
Entrance Area & Telemetry (Dose Rate Area monitoring)



Orion or DosiServ

- Can configure the reader to stop any entrance in RCA
- Can send information to Dose Management to restrict the access

Orion Studio Screen Capture



People into RCA

Orion or DosiServ

- Can report the number of people in RCA or sub-area.



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Dosimetry Data Management



Data Management
AI & Predictive Method

Vital™ Platform



Orion **RTLSTM**

DMC**User™**

Dosi**Serv™**

Configuration Data
DMC Data

Posteriori Data
Dose Management
Data

Real Time Location Data
(Telemetry + Location) Data

What DosiServ & AI can do: Support your daily operations



- Smart Training ?
- Automatic prompt for support ?
- Quality control ?
- DMC managements ?
- Face recognition ?
- Safety ?
- Translation ?
- Alara Optimization
- Alara Planning
- Task Automatisatation
- Data Migration
- Optimization process
- Numerical Simulation
- Predictive maintenance

RP Engine:

Différents modules that will be incorporated on SW

- Level 1
 - New user manual Approach : Prompt discussion
 - « Paper » data / OCR recognition
 - Auto full in feature
- Level 2
 - Prompt & configuration
 - Automatic reports bulding
 - UIUX configuration
 - Data integration
 - Managing DMC fleets (calibration & numbers)
- Level 3
 - Predictive maintenance / QA
 - Convergence of data / data mangement
 - Analytics & optimization