



DosiBase ELDos

User's Manual

Software version 1.9.3.x

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TABLE OF CONTENTS

Table of Contents	3
1 Introduction	4
1.1 Hardware requirements:.....	4
1.2 Software Requirements	4
2 Installation and Initial Setup	5
2.1 DosiBase ELDos installation	5
2.2 First Run	6
3 Main screen	9
4 Manage Organizational units and persons	11
4.1 Organizations	11
4.2 Persons.....	11
4.3 Classifier tables	12
4.4 Licenses	13
4.5 Status changes	14
4.6 Authentication codes.....	14
5 Dosimeters.....	15
5.1 List of Dosimeters	15
5.2 EPD device thresholds.....	16
5.3 EPD Status	17
5.4 Issue Dosimeters.....	24
5.5 Deissue	24
5.6 Deissue Extended.....	25
6 Self Service Mode	27
6.1 Issue Dosimeter.....	27
6.2 Delissue Dosimeter	28
7 Dose review	29
8 Reports.....	31
8.1 Dose Reports.....	31
8.2 Persons in Organisation Unit	31
8.3 Issued	31
9 Administrative functions	32
9.1 Users	32
9.2 Preferences	32
9.3 Units of Measure.....	34

1 INTRODUCTION

DosiBase ELDos® is developed using Microsoft® SQL Server® 2022 as data storage.

"DosiBase ELDos® is a flexible, configurable and easy to use TruDose database for rapid issuing and dose collection for the electronic dosimeters

- Collects dose for Hp (10), Hp (0.07), Hp (10G), Hp (10N)
- Status monitoring of dosimeters
- Possibility to connect / extend to TLD dose database (upon special request)
- Provides access control via password authentication
- Flexible reporting periods, standards for monthly, yearly and lifetime dose
- Freely configurable headers and footers for printed reports
- Easy export of reports to Word®, Excel® and PDF files



Designed to work with EPD TruDose IR Reader, EPD TruDose Desktop Reader, compatible with EPD TruDose Electronic Dosimeter Mk2, MK3, MK3.1 Series"

1.1 HARDWARE REQUIREMENTS:

- Minimum of 8 Gb of RAM or more.
- Minimum processor speed 2 GHz or higher.
- 200 MB of free hard drive space to store a database.
- Monitor with a resolution of 1280×720 or higher.
- EPD TruDose IR reader.

1.2 SOFTWARE REQUIREMENTS

For the software to be fully functional, it requires either of the following operating systems:

- Windows Server 2016/2019 Datacentre.
- Windows Server 2016/2019 Standard.
- Windows Server 2016/2019 Essentials.
- Windows 10/11 Professional.
- Windows 10/11 Home.

All latest OS updates should be applied.

Additional requirements:

- .NET 4.8 or later is required.
- MS SQL Server 2022 Local DB (It will be installed automatically)



Depending on your computer or network security policies, there can be restrictions on automatic downloading of additional components. Please contact your local IT support. Components can be download and installed in offline.

2 INSTALLATION AND INITIAL SETUP

2.1 DOSIBASE ELDOS INSTALLATION



Before installing DosiBase ELDos, ensure that the computer's operating system has all current updates and service packs installed.



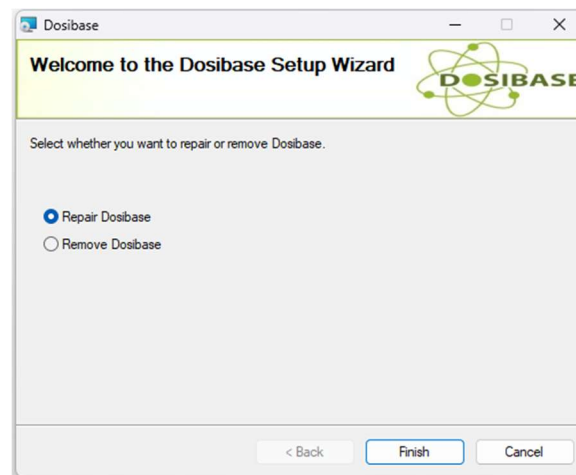
Note that if an SQL database LocalDB already exists on the computer, the DosiBase ELDos will require to recreate username and password.



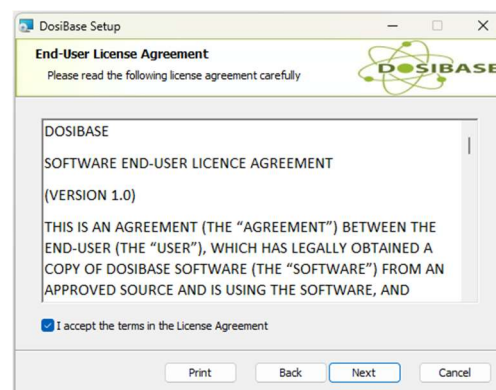
If the Dosibase database on the SQL server has already been created from a previous installation, install Dosibase and restore previous database from backup.

- A) Begin the installation by double clicking on the Dosibase installer DosibaseSetup .msi to start installation process.

If you attempt to install the same version, the installer will prompt you to either repair the existing Dosibase installation or remove it.



If you do not have SQL Server 2019/2019 Express LocalDB pre-installed on your computer. It will be installed in first run of application.



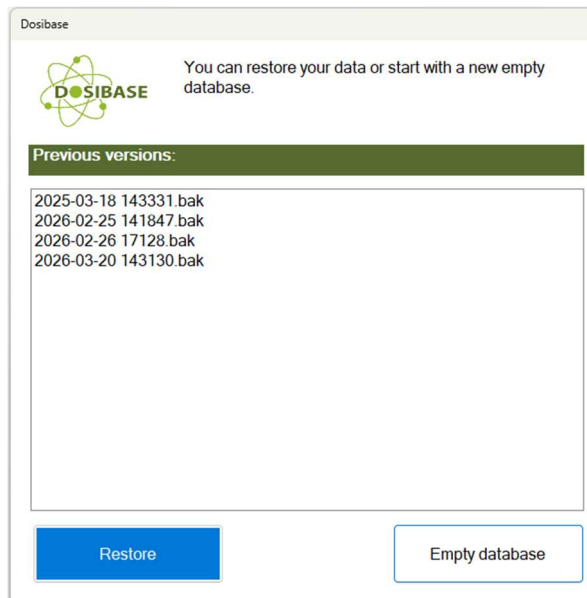
Click the "NEXT" button. Then, please, follow on-screen instructions. If the installation process is completed successfully, success messages appear. If case of installation failure, please, contact your local IT representative or DosiBase ELDos support.

2.2 FIRST RUN

If an existing database and configuration from a previous version are detected, DosiBase will start normally using those settings.

If this is a fresh installation, DosiBase will prompt the user to either:

- restore a database from a previous installation, or
- create a new, empty database.

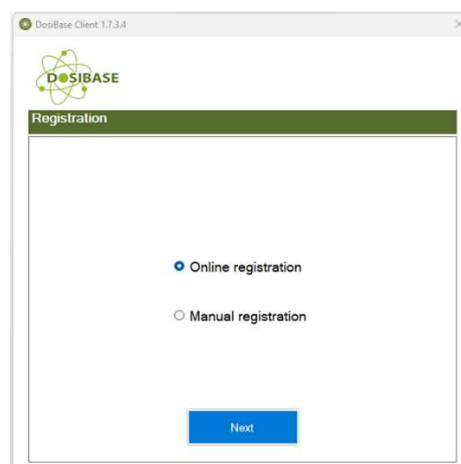


After restoring a previous database, the system starts normally and prompts the user for a username and password.

Database restoration from an SQL backup file requires first restoring an empty database. After logging in to the application, complete the restore process via the Preferences section.

2.2.1 Initiation of new installation

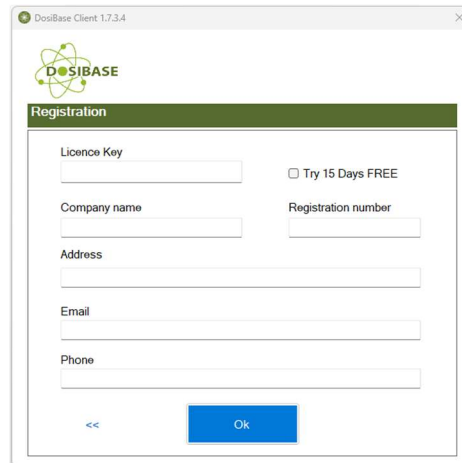
The system will request registration of the installation. You can choose either automatic online registration or proceed with manual registration. A valid DosiBase license key is required and can be obtained from your distributor.



Online registration requires entering the license key and contact information. This information is sent to the DosiBase activation service to complete automatic activation.

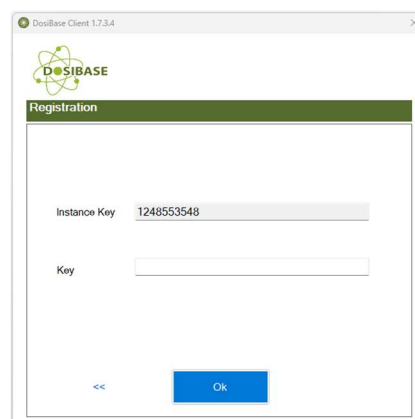
After successful registration, the license is linked to the hardware.

It is also possible to activate a 15-day trial license.



The screenshot shows the 'Registration' window of the DosiBase Client 1.7.3.4. The window has a green header bar with the DosiBase logo. Below the header, there are several input fields: 'Licence Key', 'Company name', 'Address', 'Email', and 'Phone'. There is also a 'Try 15 Days FREE' checkbox and a 'Registration number' field. At the bottom, there are '<<' and 'Ok' buttons.

If manual registration is selected, the Instance Key must be provided to the DosiBase Service Desk by phone or email in order to receive an activation key specific to your hardware.



The screenshot shows the 'Registration' window of the DosiBase Client 1.7.3.4, specifically the manual registration section. It features an 'Instance Key' field with the value '1248553548' and a 'Key' field. At the bottom, there are '<<' and 'Ok' buttons.

Once the activation key is confirmed, DosiBase will launch and prompt you to create the main administrator account. After this account is created, you can begin using DosiBase.

New user

Please create system admin user!

Name

Username

Password

Find EPD reader

DOSIBASE
SOFTWARE END-USER LICENCE AGREEMENT
(VERSION 1.0)

THIS IS AN AGREEMENT (THE "AGREEMENT") BETWEEN THE END-USER (THE "USER"), WHICH HAS LEGALLY OBTAINED A COPY OF DOSIBASE SOFTWARE (THE "SOFTWARE") FROM AN APPROVED SOURCE AND IS USING THE SOFTWARE, AND SABIEDRBA AR IEROBEŽOTU ATBILDĪBU ("DOSIBASE", COMPANY REGISTRATION NUMBER 50103485261, A

☐ Accept license agreement

OK Cancel

You can automatically search for the EPD reader port number.

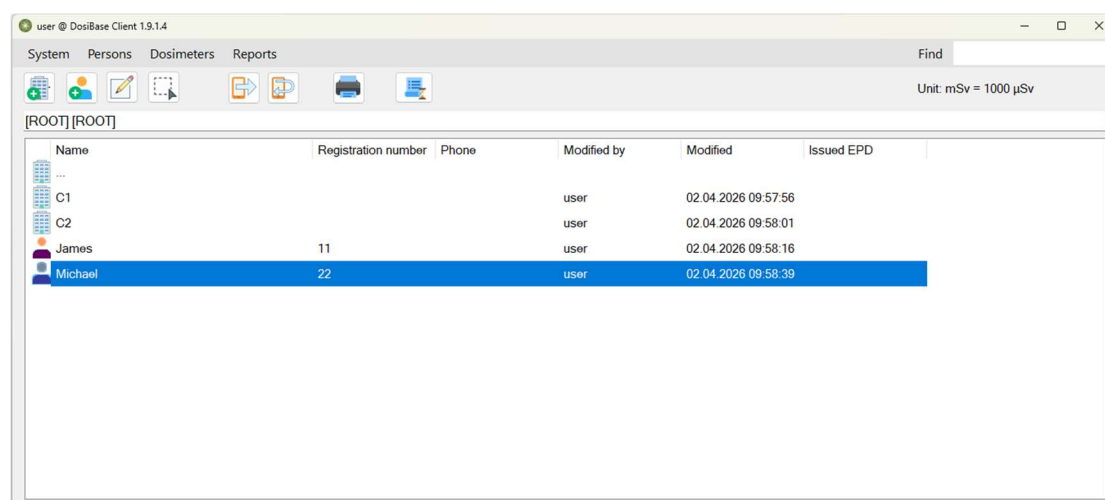
Click the **"Find EPD Reader"** button, then connect or reconnect the reader to a USB port. The system will detect the change and display the assigned port number.

- The search mode will run for up to 10 seconds or until the device is detected.
- The search can be repeated if necessary.
- Alternatively, the port number can be entered manually in the DosiBase settings.

Please read and accept the DosiBase license agreement to continue.

On subsequent launches, you will be able to log in to the system using your username and password.

3 MAIN SCREEN



In the main window of the system, you can access persons organised in hierarchical organisation structure. All functions can be found in Menu structure, but most frequently operations are available in the system toolbar. You also can access frequent functions in popup menus from selected person.

System menu Structure:

System

- Self Service – Switch DosiBase in Self Service mode. Persons can issue and return dosimeters themselves.
- Users- DosiBase user management. Creating of new user; password change.
- Options
 - Preferences – DosiBase Preferences, like language, communication port, Unit, etc;
 - Units – Dose units. Base Unit in μSv , it is possible to add derived units by specifying a conversion factor.
- Data
 - Professions – Management of the Professions classifier;
 - Operations - Management of the Operations classifier;
 - Risk Categories - Management of the Risk Categories classifier;
 - Countries - Management of the Countries classifier.
- About – Short information about Dosibase version and license status.
- Exit – Exit from system.

Persons

- Add organization – Add new organization in catalogue.
- Add person - Add new person in catalogue.
- Edit – Edit person or organization.
- Cut/Paste – Change person or organization location in catalogue tree. (CTRL+X)-> (CTRL+V).
- Remove – Remove persons. It is possible to remove only persons what are not active and enabled.

- Status Changes- management of person statuses changes.
- Licenses- management of person Licenses.
- History – History of all Issue and Deissue operations of person.
- Dose review – An overview of the doses received by the person.

Dosimeters

- EPD list – List of registered dosimeters, that can be issued to persons;
- EPD device thresholds – Define EPD thresholds, that can be used for specific task;
- EPD status – Instrument to review actual status of EPD;
- Issue – Issue the dosimeter for the person;
- Deissue – Return the dosimeter from the person and register dose into the database;
- Deissue Extended - Return the dosimeter from the person in extended mode and register dose into the database;

Reports

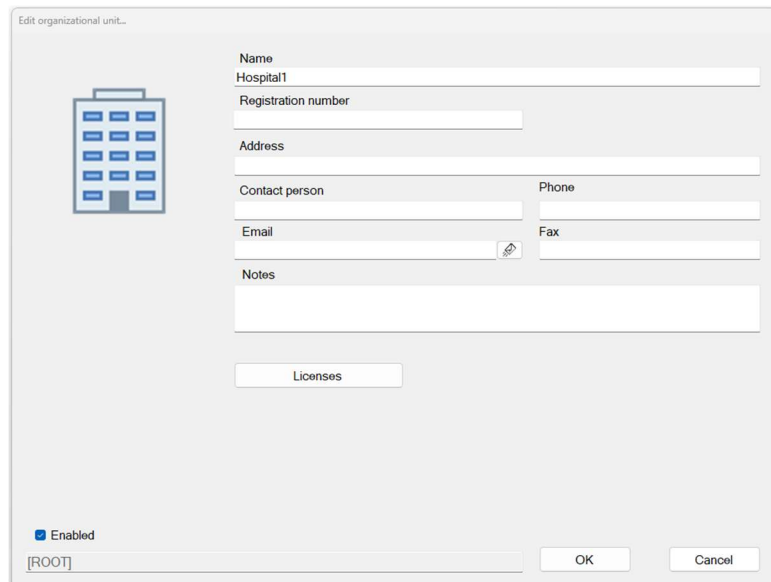
- Dose reports – Main report of collected doses.
- Persons in OU – list of persons in the organization.
- Issued – List of issued dosimeters a specific time.
- Person History – List of EPD Issue and Deissue operations.

4 MANAGE ORGANIZATIONAL UNITS AND PERSONS

4.1 ORGANIZATIONS

To create new organisation, select root or parent organisation and choose from menu Persons→Add Organization.

To edit existing one, select organization record and choose from menu Persons→Edit.



Mandatory field

- Name of the organisation unit.



Additional field in edit mode

- Licenses.

4.2 PERSONS

To create new person, select root or parent organisation and choose from menu Persons→Add Person.

To edit existing one, select person record and choose from menu Persons→Edit.



Mandatory fields

- Name of the person
- Registration number of the person



Fields from database classifier

- Profession
- Operation
- Risk category
- Country



Additional field in edit mode

- Lenses
- Person status changes
- Authentication codes

You can mark record as inactive when check out “Enabled” property of OU or person. It will show grey in the Dosibase main window. To hide disabled organisations or persons check in the Dosibase preferences “Hide disabled...”.

4.3 CLASSIFIER TABLES

A value from a classifier list can be assigned to the person. Profession, Operation, Risk category, Country. Each classifier can be Edited at the time of assignment or by opening the correction window from the system menu.

- Professions: *System → Data → Professions*
- Operations: *System → Data → Operations*
- Risk Categories: *System → Data → Risk Categories*
- Countries: *System → Data → Countries*

Code	Name
000	None
001	Radiologist
002	Chemist
003	Dentist



The corrected value will be reflected in all persons where it has been used.

- In the “Edit person” window, the status of the person can be controlled by means of the button “Person status changes”.

Status	Date	Modified by	Modified
Back to work	10.03.2024	Admin User	29.04.2024 17:43:34
On vacation	01.03.2024	Adm	
Start working	01.01.2024	Adm	

If a person works in several organizations, when adding the person for the second, third and further organizations, the “Add existing” check box must be selected, and the person’s registration number must be entered to enable the system to find this existing person.

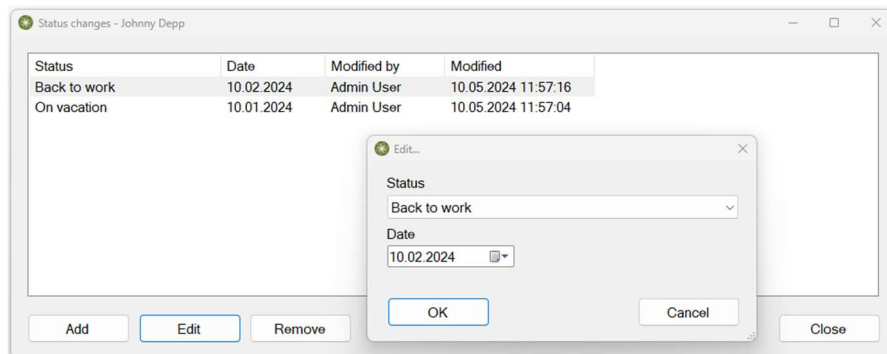
4.4 LICENSES

Once a person or organisation has been created, it is possible to assign one or more license records to it. Licenses can be accessed from main menu *Persons* → *Licenses* or directly from OU or Person edit window by pressing button “Licenses”.

Number	Title	Valid from	Valid to	Modified by	Modified
LI 001122	Certificate AA1	01.01.2024	31.12.2024	Admin User	10.05.2024 11:45:45

4.5 STATUS CHANGES

It is possible to track person status changes. Status changes can be managed from main menu *Persons* → *Status Changes* or directly from OU or Person edit window by pressing button “*Status Changes*”.

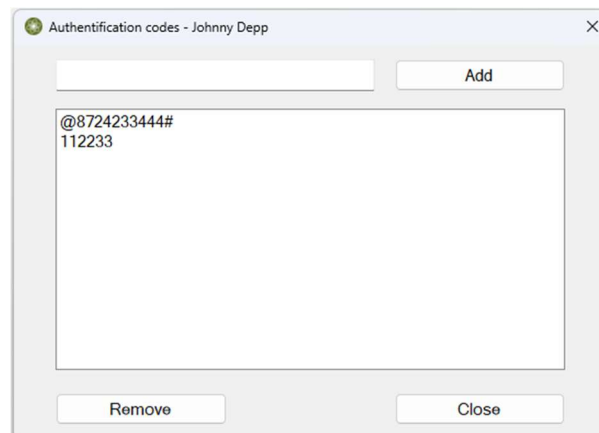


i Only last record is accessible for editing.

4.6 AUTHENTICATION CODES

Once a person has been created, it is possible to assign one or more authentication codes by clicking the “Authentication Code” button in the person edit window. These may include, for example, RFID codes from identity cards or user-friendly identifiers.

Authentication codes are used to identify persons in self-service mode.



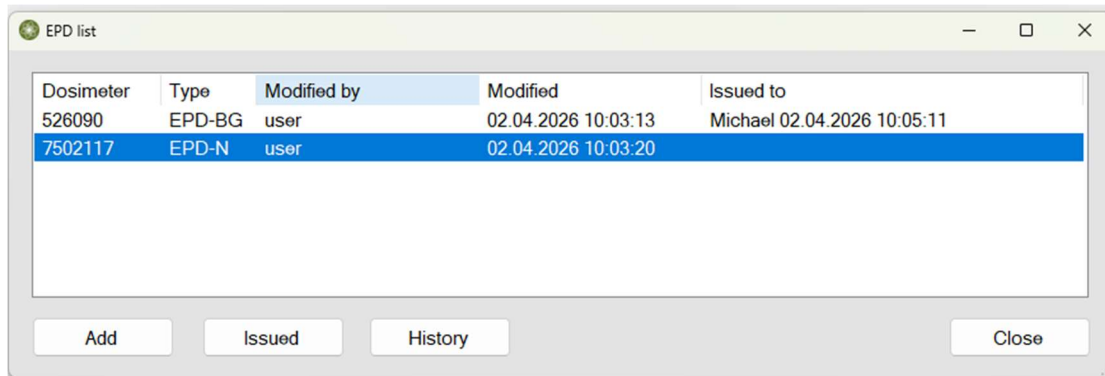
5 DOSIMETERS

Ensure that the EPD adapter is connected to your computer before launching DosiBase. Verify that the green indicator light is on. If it is not, check that the IR adapter is properly connected and that the correct COM port is configured.

The correct COM port can be identified in the Windows Device Manager. Navigate to Ports (COM & LPT) and locate your EPD adapter. Note the number shown in parentheses after “COM”.

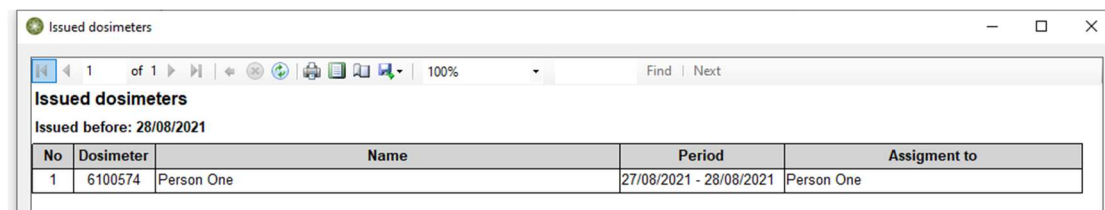
The COM port can be configured in DosiBase under Options → Preferences.

5.1 LIST OF DOSIMETERS



EPD List can be opened in menu *Dosimeters* → *EPD list*. In this window you can add new dosimeters to your database. Once they are added, they can be issued to specific persons in your organisation.

Through this window it is also possible to view all currently issued dosimeters along with the persons that the dosimeters are issued to. To do this, click the *Issued* button, then select the date before which you would like to see the data. This table can be exported to the appropriate file formats as well.



To view EPD issue/deissue history. click “*History*” button. Here you can also see the dose reports from any case of EPD deissue by selecting it and clicking *View*.

To search for unreturned dosimeters, click the “*Issued*” button.

Enter a date to find dosimeters issued before this date and not returned. By default, the date is set to today. If the date is today, the report that appears contains all unreturned dosimeters.

EPD history 526090

Unit: mSv = 1000 μ Sv

When	Status	Hp(10)	Hp(10G)	Hp(0.07)	Hp(10N)	User	Modified
02.04.2026 17:...	EPD issued to Michael (22)					user	
02.04.2026 17:...	EPD deissued from Michael (22)					user	
02.04.2026 17:...	EPD issued to Michael (22)					user	
02.04.2026 16:...	EPD deissued from Michael (22)	0.00	0.00			user	
02.04.2026 10:...	EPD issued to Michael (22)					user	
02.04.2026 10:...	EPD deissued from Michael (22)	0.12	0.12			user	02.04.2026 10:09:22
02.04.2026 10:...	EPD issued to Michael (22)					user	

Print Dose details EPD Status Close



If the dose is less than 0.001 μ Sv, it will be displayed as empty. If the dose is less than 0.01 μ Sv and DosiBase is configured to display two decimal places, it will be shown as 0.00.

Click **Dose Details** to view detailed information about the collected dose and its change history.

Click **EPD Status** to view the internal status flags of the dosimeter.

EPD Status record

Dosimeter 7502117 Date 02.04.2026 17:08

Operating

EpdOn
EpdIssued
DetectorTestRequested
DoseWriteEnabled
AlkalineFitted

Fault

TimeInvalid

Alarm

Close

If

5.2 EPD DEVICE THRESHOLDS

In the system menu Dosimeters → EPD Device Thresholds, you can access the Task List with thresholds. Here, you can add new thresholds that activate warning or alarm tasks, notifying users when the time limit for staying in a high-radiation zone is reached. It is possible to edit new EPD Device Thresholds if they have not yet been assigned to any dosimeter.

- Dose thresholds and stay time are fully customizable to meet specific requirements.

EPD device thresholds

Description	W Hp10	A Hp10	RW Hp10	RA Hp10	W Hp07	A Hp07	RA Hp07	RA Hp07	W Hp10N	A Hp10N	RA Hp07	RA Hp10N	Stay time	Modified...	Modified
Basic	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	60	aaaa	04.03.2025 10:...

EPD device thresholds

Description

Advanced

Stay time

300 (min)

Hp07 thresholds

Dose Warning

20 (uSv)

Dose Alarm

20 (uSv)

Dose Rate Warning

20 (uSv/h)

Dose Rate Alarm

20 (uSv/h)

Hp10 thresholds

Dose Warning

20 (uSv)

Dose Alarm

20 (uSv)

Dose Rate Warning

20 (uSv/h)

Dose Rate Alarm

20 (uSv/h)

Hp10G thresholds

Dose Warning

20 (uSv)

Dose Alarm

20 (uSv)

Dose Rate Warning

20 (uSv/h)

Dose Rate Alarm

20 (uSv/h)

Hp10N thresholds

Dose Warning

20 (uSv)

Dose Alarm

20 (uSv)

Dose Rate Warning

20 (uSv/h)

Dose Rate Alarm

20 (uSv/h)

Save

Close



Once a EPD device threshold task is added, it cannot be deleted. The record can be corrected until it gets used for the first time. Once the task is in use, it cannot be corrected any more, only new tasks can be added.

5.3 EPD STATUS

In the system menu Dosimeters → EPD status, you can access the access dosimeter data. It is possible to work with any EPD. There is no need to add it to the list of dosimeters

EPD Status

EPD

Doses

EPD Status

Profile

No

526090

Type

EPD3 Beta,Gamma

Hardware version

3.0.0.0

Software version

1.6.1.9

Factory calibration date

11.11.2022 13:45:51

Calibration Due date

11.11.2023 00:00:00

EPD time

05.09.2024 18:51:48

Sync. time

Dosibase Status

EPD does not exist! Please Add Dosimeter.

Wearer ID

202408201815

Wearer name

Test User

Read EPD

Close

Identities

No	EPD Serial number
Type	Identifies the Type of the EPD

Hardware version	Identifies the mark and build of the EPD
Software version	Version number for the loaded firmware
TotalDoseOverrange	Total dose overrange alarm active

Factory Calibration and EPD Time

Factory callibration date	Last Factory callibration date
Calibration Due Date	Callibration Due Date for next annual check
EPD Time	Actual EPD Clock

Sync time button – Synhronise the EPD date/time with your PC clock.

EPD Issue status

Dosibase Status	Disply EPD actual status in Dosibase: Issued, Not Issued, EPD does not exists,
Wearer ID	EPD's last user ID number
Wearer Name	EPD's last user name

Doses – actual collected doses an EPD thresholds

EPD Status

EPD

Doses

EPD Status

Profile

Doses

	Current Dose		Peak Rate		Peak time
HP 10	18.0138	μSv	7.720237	μSv/h	28.02.2025 23:13:00
HP 10G	6.613804	μSv	1.376777	μSv/h	28.02.2025 12:21:50
HP 10N	11.4	μSv	7.66468	μSv/h	27.02.2025 16:30:29

Clear Doses

EPD device thresholds

	Dose		Dose Warning		Rate Alarm		Rate Warning
HP10	500	μSv	200	μSv	500	μSv/h	200 μSv/h
HP10G	500	μSv	200	μSv	500	μSv/h	200 μSv/h
HP10N	500	μSv	200	μSv	500	μSv/h	200 μSv/h

Read EPD

Close

Depending on the dosimeter type, the dose and threshold fields vary. For example, the **BG dosimeter** operates with **Hp(10)** and **Hp(0.07)** doses, while the **Neutron dosimeter** works with **Hp(10)**, **Hp(10G)**, and **Hp(10N)** doses.

Doses

Current Dose	Dose is regarded as a short-term record of Dose received, usually associated with the issue of an EPD. It is this value that is compared with Dose Alarm Thresholds and an alarm raised if the value exceeds the thresholds
Peak Rate	This is the Peak Rate calculated by the EPD at the time of the Read.
Peak Time	This is the time at which the Peak Dose Rate occurred. No Peak is displayed if there has not been a peak recorded since the peak dose rate was last cleared.

Clear Dose button – Clear the Dose Values. If EPD is issued, Clear dose button will be disabled.

EPD device thresholds

Dose	When the Dose $\geq$ Dose Alarm Threshold, the EPD will activate the Dose Alarm.
Dose Warning	When the Dose $\geq$ Dose Warning Alarm Threshold, the EPD will operate the Dose Warning Alarm.
Rate Alarm	When the Rate $>$ Rate Alarm Threshold, the EPD will operate the Rate Alarm.
Rate Warning	When the Rate $>$ Rate Warning Alarm Threshold, the EPD will operate the Rate Warning Alarm.

EPD Status11 - actual state of EPD

EPD Status

EPD

Doses

EPD Status

Profile

Measurement Alarm Status

☐ Measurement
☐ Dose Overrange
☐ Total Dose Over Range
☐ Rate Overrange
☐ Dose Alarm
☐ Rate Alarm
☐ Dose Warning
☐ Rate Warning
☐ Latched Rate Overrange
☐ Latched Rate Alarm
☐ Latched Rate Warning
☐ Pulse Overrange

Operating Status

☒ EPD On
☐ Detector Test Requested
☒ Calibration Check Due
☐ Responder Enabled
☐ Telemetry On
☒ Apply Gains
☐ Pulsed Mode Enabled
☐ Reduced Rate Overrange
☒ Golden

☐ EPD Issued
☒ Detector Test Passed
☐ Calibration In Progress
☐ Responder Triggered
☐ Telemetry Connected
☐ Gains Adjusted
☐ Pulsed Mode Active
☒ Alkaline Fitted

☐ Protected Session
☐ Deep Sleep Mode Enabled
☐ Clear On Switch On Enabled
☒ Dose Write Enabled
☐ Industrial Pulse Mode
☐ Manufacturer Locked
☐ Covert Mode

General Alarm Status

☐ Stay Time Exceeded
☐ Return For Read
☐ Low Battery
☐ Telemetry Alert
☐ Abuse Alarm

Fault Statuses

☐ Time Invalid
☐ Detector Test Filed
☐ EPD Faulty
☐ Not Initialised
☐ Bad Detector Threshold

☐ Error Logged
☐ Battery Critical Low
☐ Power Loss While Issued
☐ Not Factory Calibrated
☐ Bad Sensitivities

☐ Disabled By External System
☐ Incomplete Reader Comms
☐ Telemetry Failure
☐ Eeprom Failed
☐ Sounder Failure

Read EPD

Close

Measurement Alarm Status

Dose Overrange	Dose overrange alarm active
Total Dose Overrange	Total dose overrange alarm active
Rate Overrange	Rate overrange alarm active
Pulse Overrange	Pulse mode overrange alarm active
Dose Alarm	Dose alarm active
Rate Alarm	Rate alarm active
Dose Warning	Dose warning alarm active
Rate Warning	Rate warning alarm active
Latched Rate Overrange	Rate overrange alarm previously occurred
Latched Rate Alarm	Rate alarm previously occurred
Latched Rate Warning	Rate warning alarm previously occurred

General Alarm Status

Stay Time Exceeded	Stay time alarm has occurred
--------------------	------------------------------

Dosibase ELDos User's Manual

Page 20

Return For Read	Return for Read alarm has occurred
Low Battery	Low battery alarm active
Telemetry Alert	Telemetry alert active e.g. a pager message has been received
Abuse Alarm	Abuse alarm has occurred

Operating Status

EPD On	EPD is switched on
Detector Test Requested	A detector test has been requested but not yet completed
Calibration Check Due	The calibration due date has been exceeded. The due date is set during calibration.
Responder Enabled	Responder mode is enabled to only accumulate dose after a trigger event
Telemetry On	Telemetry is enabled and powered on
Apply Gains	The EPD is unlocked so that calibration gains can be applied using the Gain Factors
Pulsed Mode Enabled	Pulsed mode enabled for operation in pulsed fields
Reduced Rate Overrange	The EPD is in pulsed mode and rate overrange limit has been reduced to a smaller value
Golden	This is a 'golden' dosimeter with a reference calibration
Epd Issued	EPD is issued
Detector Test Passed	Detector test has been run and passed
Calibration In Progress	A calibration is currently in progress (used in production)
Responder Triggered	Responder mode dose recording has been triggered
Telemetry Connected	Telemetry has an active BLE connection to a remote host
Gain Adjusted	Calibration gains are in effect
Pulsed Mode Active	Pulsed mode is currently active

Alkaline Fitted	An alkaline battery is fitted (rather than a Lithium)
Protected Session	A protected comms session is in progress which will cause the EPD to alarm if the comms session is ended prematurely. Cleared by an end of session command.
Deep Sleep Mode Enabled	Deep sleep mode has been enabled to disable IrDA comms detection when EPD is switched off
Clear On Switch On Enabled	Dose will be cleared when the EPD is switched on
Dose Write Enabled	Writing of dose has been enabled. Used for test and training purposes
Industrial Pulsed Mode	Pulsed mode is industrial (NDT)
Manufacturer Locked	Manufacturer Lock out Enabled
Covert Mode	Covert mode enabled to silence alarm and other indications

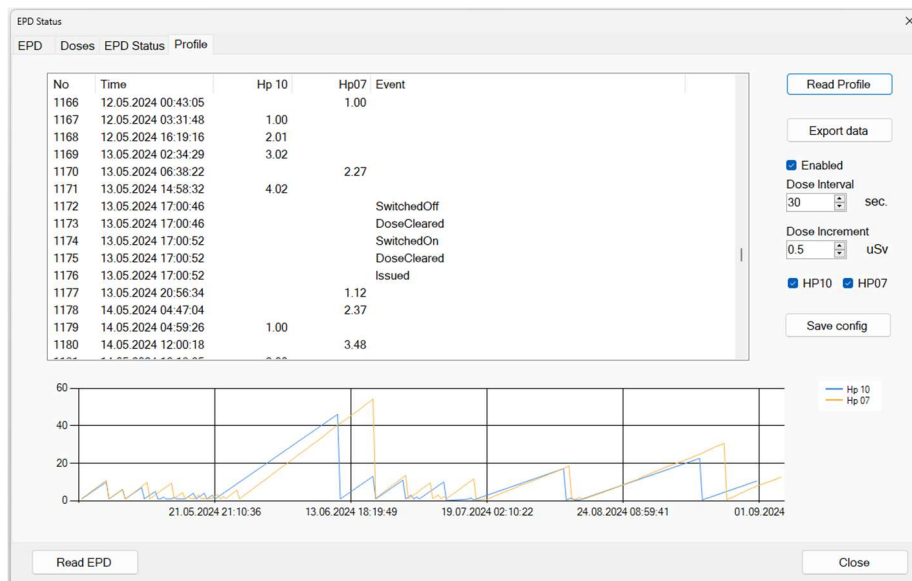
Fault Status

Time Invalid	Real Time Clock time is invalid and needs to be synchronised
Detector Test Fail	Detector test has failed
EPD Faulty	EPD has one or several fault conditions
Not Initialized	EPD has an uninitialized EEPROM memory
Bad Detector Threshold	Detector threshold data fails integrity checks
Error Logged	An error has been logged in the event log
Battery Critical Low	Battery condition has reached critical end of life
Power Loss While Issued	A reset occurred while the EPD was issued
Not Factory Calibrated	EPD has not been calibrated
Bad Sensitivities	Sensitivity factors fail integrity checks
Disabled By External System	An external system has flagged this EPD as disabled and not to be used

Incomplete Reader Comms	EPD has been removed or lost comms connection during a protected session
Telemetry Failure	Telemetry radio or internal interface has failed
Eeprom Failed	Failure of EPD internal storage in EEPROM
Sounder Failure	Sounder has failed self-test

Profile

You can read the profile data from the EPD and view it in tabular or graphical form



Export data – export data in csv format.

Dose Profile Configuration

Enabled	Enables/Disables Dose Profile Logging
Dose interval	Use the Spin buttons to select a minimum interval for the Dose Profile. This is how often a Dose Profile is logged. On power cycle or changing this interval, the EPD records the dose and then every increment after this. If the Dose has changed, a record is made; if the Dose has not changed, no record is made. Minimum value is 1 and maximum value is 65535 (i.e. 18 hours, 12 minutes and 15 seconds). Typical values for normal use are between 30 and 120 seconds.
Dose Increment	Use the Spin buttons to select a Dose Increment for the Profile.

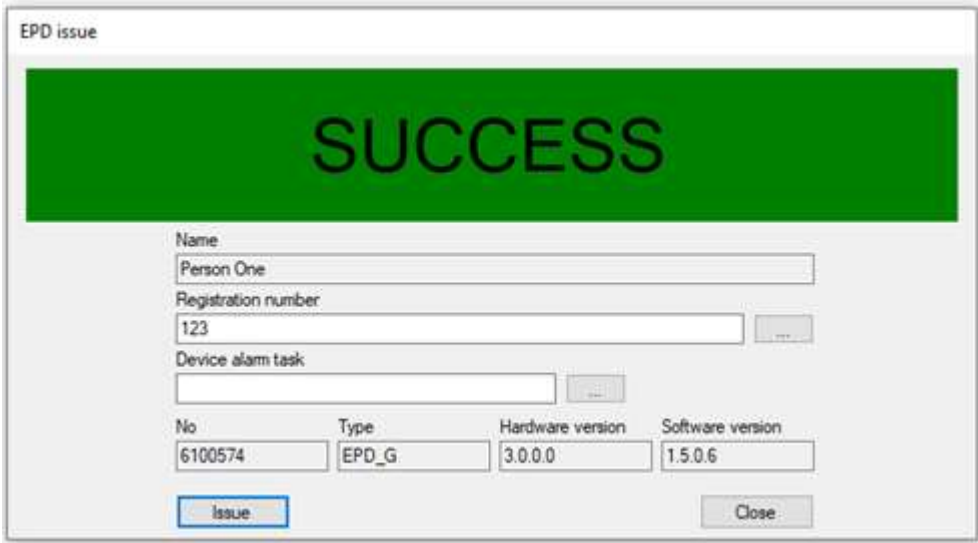
	This is the increment change required to log the Dose Profile. Minimum Value is 0.1 and maximum value is 60,000 μSv. Note that the Dose Increment is recorded in μSv
Measurands	Tick the check box to display the Dose Profile for the required measurand to be logged.

5.4 ISSUE DOSIMETERS

First, place the dosimeter on the infrared USB adapter. From the organization tree, select a person to whom to assign a dosimeter. Select from menu function *Dosimeters* → *Issue*.

This will open a new window. It is possible to change Person by entering Registration number and select Device alarm tasks. Once you have completed the alarm task setup, you can click the “Issue” button. A large banner will either confirm or deny the success of the issuing.

If parameter Check EPD calibration on issue is set On, the system will check Calibration Due Date. In case the calibration has expired system will show alarm message and ask to user to continue issue process.



The screenshot shows a window titled "EPD issue". At the top, there is a large green banner with the word "SUCCESS" in white capital letters. Below the banner, there is a form with the following fields:

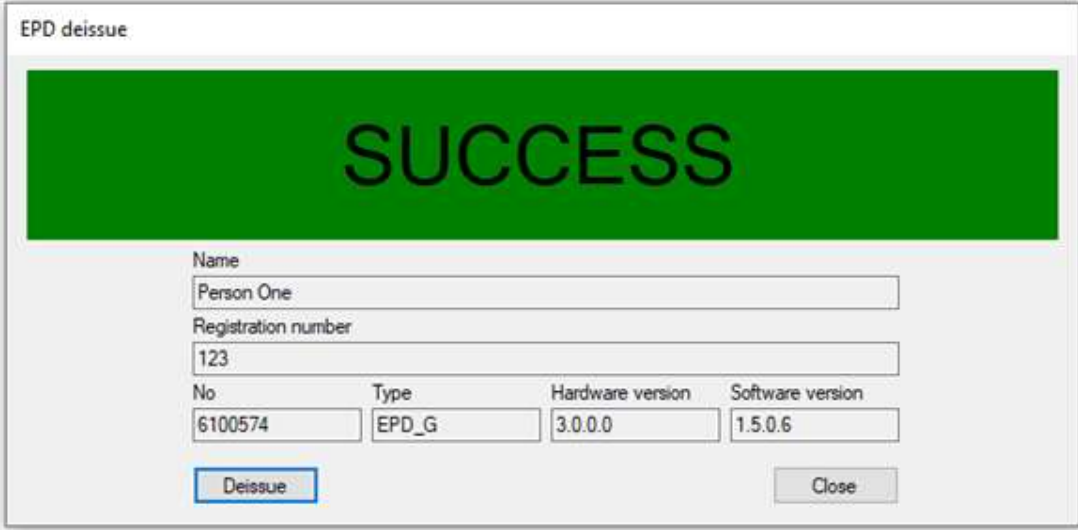
- Name: A text box containing "Person One".
- Registration number: A text box containing "123".
- Device alarm task: A text box with a dropdown arrow.
- No: A text box containing "6100574".
- Type: A text box containing "EPD_G".
- Hardware version: A text box containing "3.0.0.0".
- Software version: A text box containing "1.5.0.6".

At the bottom of the form, there are two buttons: "Issue" (highlighted with a blue border) and "Close".

In case of failed issue process, an error message will appear detailing the reason for the failure. Close the message window as well as the “EPD ISSUE” window. From the organization tree, select the next person and repeat the process.

5.5 DEISSUE

Place a currently issued dosimeter on the infrared USB adapter. Select from menu function *Dosimeters* → *Deissue*. Start process by push button “Deissue”. A large banner will either confirm or deny the success of the deissuing. In case of failure, an error message will appear, detailing the problem.



EPD deissue

SUCCESS

Name
Person One

Registration number
123

No	Type	Hardware version	Software version
6100574	EPD_G	3.0.0.0	1.5.0.6

Deissue Close

Unless the option “Clear EPD on deissue” is selected, data from a dosimeter is deleted ONLY when the next person receives the dosimeter. When the dosimeter is deissued, it only gets switched off.

While a dosimeter is not issued to anyone and the battery is not removed, the dosimeter will not be usable and will remain in the OFF state.

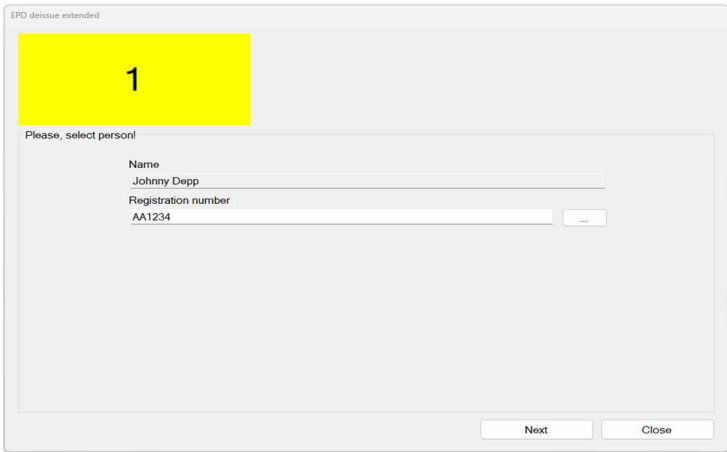
5.6 DEISSUE EXTENDED

This procedure is used when the user of a dosimeter is not known before issuing. It enables reading dosimeter data and assigning it to a user at the time.



Make sure that the dosimeter is erased before person start to use it. Deissue Extended not provide erasing of previous doses.

Select person from list and go to menu *Dosimeters* → *Deissue Extended*. A new window will appear.



EPD deissue extended

1

Please, select person!

Name
Johnny Depp

Registration number
AA1234

Next Close

If Person is not selected enter valid registration number. It is possible to use search by clicking the ellipsis button and find the person by several symbols of the person’s name or personal code.

Place the dosimeter near the infrared reader and click the “NEXT” button. Dosibase will read and display dosimeter data. Then enter the period for which the dosimeter being used by selected person.

EPD deissue extended

2

Issue

Name			
Dosimeter User			
Registration number			
11223311			
No	Type	Hardware version	Software version
6105322	EPD3 Gamma	3.0.0.0	1.6.10.0
Issued		Deissued	
07.03.2025 12:05:18		07.03.2025 12:05:18	
Hp(10) (uSv)	Hp(10) Peak (uSv/h)	Hp(10) Peak time	
8.676925	0.7567655	06.03.2025 07:35:22	
Hp(0.07) (uSv)	Hp(0.07) Peak (uSv/h)	Hp(0.07) Peak time	
8.756933	0.775123	06.03.2025 20:52:07	
(uSv)	Peak (uSv/h)	Peak time	

Back Next Close

Click the “DEISSUE” button. The message appears that returning the dosimeter is successfully completed.

If “Clear EPD on Deissue Data” is set On, Dosimeter dose data will be deleted after this reading.

EPD deissue extended

SUCCESS

Confirm

Name			
Dosimeter User			
Registration number			
11223311			
No	Type	Hardware version	Software version
6105322	EPD3 Gamma	3.0.0.0	1.6.10.0
Issued		Deissued	
07.03.2025 12:05:15		07.03.2025 12:05:18	
Hp(10) (uSv)	Hp(10) Peak (uSv/h)	Hp(10) Peak time	
8.676925	0.7567655	06.03.2025 07:35:22	
Hp(0.07) (uSv)	Hp(0.07) Peak (uSv/h)	Hp(0.07) Peak time	
8.756933	0.775123	06.03.2025 20:52:07	
(uSv)	Peak (uSv/h)	Peak time	

Deissue Close

EPD DEISSUED SUCCESSFULLY!

OK

6 SELF SERVICE MODE

Dosibase provides persons with self-service functions without using a Dosibase operator. Self-service mode can be started by *System* → *Self Service*

Please, locate the dosimeter

Using this mode, the user of the Dosibase program will not be able to use any other features of the program until it is closed and reopened. Upon opening again, it will require a login

6.1 ISSUE DOSIMETER

Place the dosimeter on the infrared USB adapter. Enter or scan the registration number or authorization code, then select the required task. If the "Issue to Assigned Person" function is enabled, the person identifier will be read from the EPD wearer ID record.

The system will display the device's alarm task menu if tasks are configured and the **Enable Tasks on Issue** parameter is set. If the **Enable Tasks on Issue** option is disabled, device alarm tasks will not be displayed.

If **Auto issue** parameter is enabled, the system will automatically initiate an issuing process as soon as an identifier is entered and the person is identified. It is recommended to use this function when automatic identifier readers or are used and no need to select the task.

Issuing dosimeter

Dosimeter
526090 EPD3 Beta,Gamma

Person
1111 Demo Person

Device alarm task

☒ Basic

OK Cancel

Click the "OK" button. Issuing is successfully completed.

ISSUED DOSIMETER: 526090



Dosimeter
 Person

Please take your dosimeter

The next dosimeter can be taken and placed on the infrared USB adapter to perform issuing or deissuing for the next person.

If option **Enable Tasks on Issue** is disabled Device alarm tasks will not be displayed

6.2 DEISSUE DOSIMETER

Place a dosimeter on the infrared USB adapter. System will read Dosimeter data and show results on the screen.

DEISSUED DOSIMETER: 526090



Dosimeter
 Person

	(uSv)	Peak Rate (uSv)/h
Hp07	0,04	0,35
Hp10	0,31	5,58

Please take your dosimeter

Depending on the dosimeter type, the list of doses may vary. In case If an alarm is recorded during the issue period, an exclamation mark will appear, and it will be displayed in this window.

DeIssuing is successfully completed.

Next dosimeter can be taken and placed on the infrared USB adapter to perform next assigning or returning operation.

7 DOSE REVIEW

To review and edit past recorded doses, select the person that interests you, then navigate to the option “Dose review” in the PERSONS drop-down menu. This will open a new window with the entire history of this persons’ recorded doses.

Dose Review - Demo Person (22222)

Here you also have the option to edit a reading. To do this, select the reading you wish to edit and click the “Edit” button. This enables you to correct faulty readings if they occur. Once a reading has been edited, an x will appear in the “Modified” column of the dose review table

EPD dose [Michael 22]

Number: 526090 Type: EPD_BG

Issue Date: 02.04.2026 Read Date: 02.04.2026

HP10: 0.12 (mSv/h) Peak: 0.11 (mSv)

HP07: 0.12 (mSv/h) Peak: 0.02 (mSv)

HP10G: 0.00 (mSv/h) Peak: 0.00 (mSv)

HP10N: 0.00 (mSv/h) Peak: 0.00 (mSv)

Notes: Hardware error

Save Close

These edits will be logged and recorded, and it is possible to view the entire history of any given dose report to see all past edits that have been made to it. This can be done by again selecting the relevant person in the organizational tree and clicking the History option of the PERSONS drop-down menu. This will open the History window. Here you can view a complete history of the person in your organization. Here you can select any reported doses and click View to see this recordings’ history.

Dose Review - Michael (22)

Hp10

Hp07

Hp10G

Hp10N

Total

0.12

0.12

0.00

0.00

Unit: mSv = 1000 µSv

Number	Issue Date	Read Date	Hp10	Hp10 Peak	Hp07	Hp07 Peak	Hp10G	Hp10G Peak	Hp10N	Hp10N Peak	Modified	Dosimeter ...
526090	02.04.2026	02.04.2026	0.12	0.11	0.12	0.02	0.00	0.00	0.00	0.00	x	EPD-BG

View...

Hp10

Peak

P.Time

Unit: mSv = 1000 µSv: uSv

Type

120.00

110.00

02.04.2026 10:06:33

526090

EPD-BG

Hp07

Peak

P.Time

120.00

20.00

02.04.2026 10:06:33

Issue

02.04.2026 10:05:11

Hp10G

Peak

P.Time

0.00

0.00

Deissue

02.04.2026 10:09:22

Hp10N

Peak

P.Time

0.00

0.00

Dose change log

Issue Date	Read Date	Hp10	Peak	Hp07	Peak	Hp10G	Peak	Hp10N	Peak	Modified	Modified...	Notes
02.04.2026	02.04.2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	02.04.2026 10:19:...	user	Hardware error

Add

Edit

Close

At the bottom of this view, the **Dose Change Log** is displayed. If any changes have been made to the dose record, entries will appear, detailing each modification along with a timestamp and the user who performed the change.

8 REPORTS

All reports can be exported to DOC, XLS and PDF format.

Dosibase has built-in reports. If you need adjustments and customisations, please contact your Dosibase consultant.

8.1 DOSE REPORTS

Select an organization subunit, or person for whom to view a dose report.

Select the option *Reports* → *Dose Reports*.

Select to view either of the following reports:

- Total doses of persons in given period - shows the total dose a person received over a report period
- Detailed report per persons - shows the list of each measurement

Select the period for which to view the report.

The four fields at the bottom of the window can be used to filter results by specifying threshold value for dosimeter elements.

8.2 PERSONS IN ORGANISATION UNIT

Select an organization or subunit for which to view a report about persons in it. The report can be viewed about one person – then it will contain the name and registration number of this person.

Select the menu *Reports* → *PERSONS IN OU*. A report appears as a result.

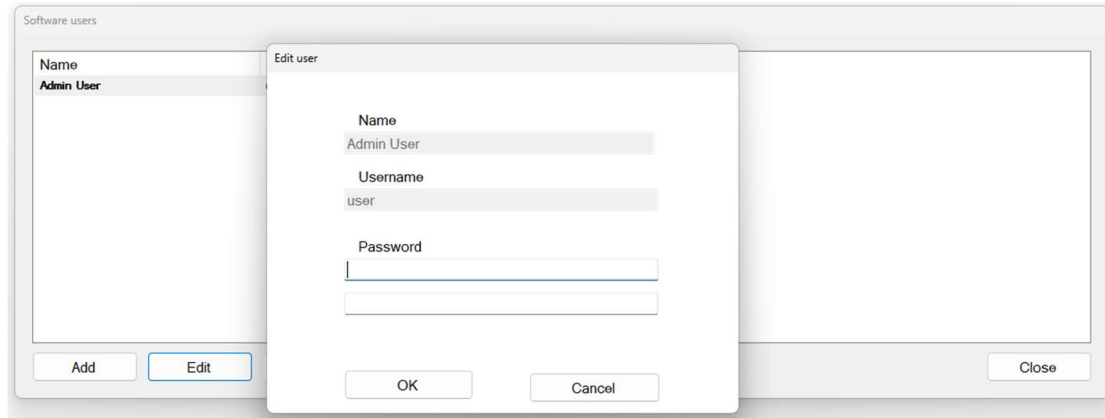
8.3 ISSUED

Select the menu *Reports* → *Issued*. Choose the date on which you want to check the issued dosimeters. A report appears as a result.

9 ADMINISTRATIVE FUNCTIONS

9.1 USERS

If more than one person will be working with the system, define other users *System* → *Users*. Specify the user's full name, username, and password.



9.2 PREFERENCES

It is possible to change system behaviour by changing system preferences. *Options* → *Preferences*. After configuring the desired settings, click **OK** to save changes or **Cancel** to discard them.

General tab

Allows configuration of basic system behaviour and display settings.

- **Digits after decimal separator**

Defines the number of decimal places displayed for dose values.

- **Unit**

Specifies the measurement unit used for dose values (e.g., mSv).

- **Hide disabled organizations, persons**

When enabled, inactive organizations and persons are hidden from selection lists and views.

- **Show registration number in reports**

Includes the registration number in generated reports.

- **Clear EPD on deissue**

Automatically clears the EPD device when it is deissued.

- **Check EPD calibration on Issue**

Verifies whether the EPD device calibration is valid during the issue process.

- **Read and store EPD Statuses**

Enables reading and storing of EPD device status information during operation.

Self Service tab

Allows configuration of system behavior when operating in self-service mode.

- **Start DosiBase in Self Service mode**

When enabled, the application will automatically start in self-service mode.

- **Password on exit**

Defines a password required to exit self-service mode and return to login screen.

- **Color Theme**

Self-service interface colour scheme. You can choose it from the presets.

- **Auto Issue**

The dosimeter is issued immediately once the system has identified the person based on their code.

- **Issue to Assigned Person**

During manual issuance, the system records the person's ID number in the dosimeter. Upon the next issuance, the system reads this number to reissue the dosimeter to the same person.

- **Synchronize EPD Clock**

Update EPD clock when issue

- **Enable Tasks on Issue**

Allows predefined tasks to be executed automatically during the EPD issue process.

- **Show Log in Self Service**

Displays system activity logs within the self-service interface.

System tab

Allows configuration of core system parameters, including database connection, language, logging, and hardware communication settings.

- **Database server**

Displays the current database server used by the system (e.g., localDB).

- **Interface language**

Defines the language of the user interface.

- **Error log**

Specifies the file path where system error logs are stored.

- **EPD adapter COM port**

Selects the communication port used by the EPD adapter. The correct COM port can be identified in the Windows Device Manager.

- **Backup (LocalDB version)**

The database backup function, allowing the user to create a backup of the current database.

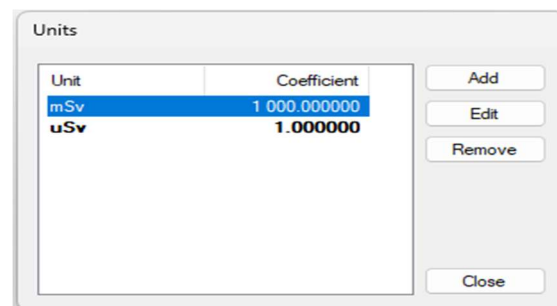
- **Restore (LocalDB version)**

Restore database from backup file

 The network version database must be backed up using Microsoft SQL Server tools.

9.3 UNITS OF MEASURE

Units of measure can be edited in *System* menu option *Options* → *Units*. Base unit is μSv (uSv). Dosibase use only Latin characters. It is possible to add derived units by indicating the conversion coefficient.



All units of measure are obtained by multiplying the base unit of measure μSv by an appropriate coefficient. For example, to define a unit of measure mSv, use the coefficient 1000.

 Dosibase store measurement values with an accuracy of 0.001 μSv .