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# **User Manual of DMCUser**

Reference	Date	DMCUser version	Evolution
154835-EN	15/06/2012	V. 1.0.0	First edition

### **Purpose**

The DMCUser application is an utility software for DMC/SOR dosimeter configuration:

- Dosimeter customization
- Batch process -
- Data / Parameters management -
- Incident analysis -
- History -

## **Operating Systems**

The DMCUser application is available on following operating systems:

- Windows Seven
- Windows XP -

#### **Supported dosimeters**

The DMCUser application is compliant with the following dosimeters:

- DMC 2000
- -DMC 2000S
- DMC 2000X -
- DMC 3000 G3 -
- DMC 3000 G2L -
- -DMC 2000 XB
- -DMC 2000 GN
- SOR/313 -
- -
- SOR/480
- SOR/R -
- SOR/T -

#### **Supported readers**

The list of supported readers by the DMCUser application is:

- LDM 320W
- LDM 320D
- LDM 220-2D -

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DMCUser principles



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## **Principles**

The main window of the DMCUser application is divided into 3 parts:

- ТОР
- · CENTER
- · BOTTOM

Detect Docineter T Dosine	- MIRIONIUSEE eter Number 01900635			- 🗆 🗙	ТОР
Menu Custonizer	View Manager	Demo	Settings	Technical support 🖗	K
Data Paramete					
View : Mesures *	Read data			Reset Layout	
Historical data				*	
Dosimeter life dose (mrem)					
Dosimeter life run-time (HH)		1649141100			
Dose total since last mainten					
Duration since last maintena Dosimeter life dose (mrem)	nce / calibration (HHMM155)	1763:17:00			CENTER
Dosimeter life dose (mrem) Dosimeter life run-time (HH)	MACES	15.3			CENTER
Dose total since last mainten		13.7			
Duration since last maintena		1763:17:00			
Measures	nce / construction (into 1 coop			8	
Dose (mrem)					
Peak dose rate (mrem/h)					
Rate (mrem/h)					
Duration in measurement (H	HMM55)	0100103			
Entry time (DateTime)		04 May 2012 @ 18:2	20:48		
					Į
Last-data update :: 09:23:47	DMC <mark>U</mark>	ser 📼	Go to Pause	Options + Go to Measure Reader Status 🔵	воттом

## TOP

In the 'TOP' part:

- View the License information
- View the Dosimeter information
- Consult the application events
- Availability of software updates

And the detail of the 'TOP' part is:

	License information	Update information
🕅 Dmellser V. X.X.X - E	Basic License - HRIONUIser	
Detect Dosimeter	* Dosimeter Number 01900635	0 Events
*	Dosimeter information	Application events 🛪

## **CENTER**

In the 'CENTER' part, find all the available features:

- Data
- Parameters
- Batch I/O
- Historical
- DM Editor
- Batch Configuration
- Menu Customizer
- View Manager
- Demo
- Administration
- Settings
- Technical Support

Note: The features depend on the DMCUser edition.

To unlock the **BASIC** or **ENTERPRISE** edition, go to the 'Technical support' feature.

And the detail of the 'CENTER' part is:

🖌 All available features

Data	Parameters	Batch In / Out	Historical	DW Editor	Batch Configuration
iew : Mesures	• Read	data			Reset Layout
Historical data	1				2
Dosimeter life	dose (mrem)				
Dosimeter life	run-time (HH:MM:55)		1649:41:00		
Dose total sine	e last maintenance / ca	libration (mrem)	13.7		
Duration since	last maintenance / cali	bration (HH:MM:SS)	1763:17:00		
Dosimeter life	dose (mrem)				
Dosimeter life	run-time (HH:MM:SS)		1649:41:00		
Dose total sin	ce last maintenance / ca	libration (mrem)			
Duration since	last maintenance / cali	bration (HH:MM:55)	1763:17:00		

Feature content

### **BOTTOM**

In the bottom part find:

- The messages displayed by the application
- The Go to Measure/Pause process
- The reader status (See 'Settings' feature)

And the detail of the 'BOTTOM' part is:



**Connect a reader** To connect a reader see the 'Settings' feature.

## **Detect a dosimeter**

To detect a dosimeter see the 'Detect dosimeter' part.

## Grids

Several data grids are used in the DMCUser application: see the 'Using Data Grids' part for their usage.

# Close the application

Click on 'Exit' 🔀 to close the DMCUser application.

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# Data feature

The 'Data' feature allows to read the Data contained into the dosimeter.

Batch Configuration Menu Customizer	Vie	w Manager	Settings	Technical support 🛞
Data Parameters	Batch In	/ Out	Historical	DM Editor
View : Default • Read data				Reset Layout
Historical data	\$	CRC of the pri	mary ASIC	16439
Dosimeter life dose (mrem)	105.4	MGP software	number	1130
Dosimeter life run-time (s)	263,220			
Dose total since last maintenance / calibration (mrem)	105.8			
Duration since last maintenance / calibration (s)	611,580			
Dosimeter life dose (mrem)	105.4			
Dosimeter life run-time (s)	263,220			
Dose total since last maintenance / calibration (mrem)	105.8			
Duration since last maintenance / calibration (s)	611,580			
Measures	\$			
Dose (mrem)	0.0			
Peak dose rate (mrem/h)	0.0			
Rate (mrem/h)	0.0			
Duration in measurement (s)	6			
Entry time (DateTime)	19 Apr 2012 @			
Constants	8			
CRC of the flash area	42689			

See the 'Generalities' chapter to consult the legend of the vertical grids.

## **Read Data**

Select the data view in the 'View' combo box and click on 'Read data' to visualize the data:



Note: The content of the grid can be different from a dosimeter type/version to an other. See the 'View Manager' feature for the

	Constants
management of data views.	Cal factor efficiency multiplier Hp(10) 1.00
inanagement of data views.	

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## **Parameters feature**

The 'Parameters' feature allows to read/write the Parameters contained into Dosimeter.

Batch Configuration	Menu Customizer		w Manager	Settings	Technical support 🔒	
Data	Parameters	Batch In a	/ Out	Historical	DM Editor	
w: Default 💌	Read Parameters	Write parameters	Multi column		Reset Layout	
User data		¥	Histogram error n	nessage	Yes	
MMI		\$	Enable backlight o	n alarm	Yes	
User message	UsrMsg		Display when activ	vation	Nothing	
Display constrast         15           Display in pause         Wearer Name           Displayed units         µSv			Enable 3 seconds beep		Disabled	
		Enable vibrator			Yes	
			Time format		24H	
Chirp mode	beep per impu	uls.	Date format		MM-DD-YY regular Yes Français	
Allow display of rate	Yes	Yes		type		
Allow display of dose	Yes		Assignment Language Thresholds Dose alarm set point (mrem) Dose varning set point (mrem)			
Displayed dose resolution	10µSv					
Displayed rate resolution	10µSv/h					
Display mode in measureme	nt Doses,Rates,	List(Pb)			100.2	
Enable speaker	Yes				100.2	
Enable backlight	Yes		Rate alarm set po		0.2	
Time of day	Yes		Rate warning set		100.3	
Time of day	100		Run-Time Warning	Set Point (s)	3,600	

See the 'Generalities' chapter to consult the legend of the vertical grids.

## **Read Parameters**

Select the parameters view in the 'View' combo box and click on 'Read Parameters' to visualize the parameters:

View : DMC3000 G3 Standard - Read F

Note: See the 'View Manager' feature for the management of parameters views.

## **Modify a value**

To modify a value:

- click on a parameter value
- enter the new value or choose it from the dropdown list (if available).

MMI		*
Displayed units	mrem	
Chirp mode	Bip inc. dose 10mrem	•
Display in pause	User message	
User message displayed in pause	PASSED	

To write the new dosimeter parameter(s) value(s) onto the dosimeter, click on 'Write Parameters'.

Note: The 'greyed' values are readonly values that cannot be written into the dosimeter. These fields are disabled in the grid.

calibrations			
Date of last calibration (Date)	11 Jan 2012		
Cal Factor efficiency Hp(10)	182		
		Thresholds	
		Dose alarm set point (mrem)	100.0
		Dose warning set point (mrem)	100.0
		Rate alarm set point (mrem/h)	101.0
		Rate warning set point (mrem/h)	100.0
Configuration		Configuration	
	Disable	Enable warnings	No

Thresholds		
Dose alarm set point (mrem)	100.0	
Dose warning set point (mrem)	100.0	
Rate alarm set point (mrem/h)	101.0	
Rate warning set point (mrem/h)	100.0	
Configuration		Constants
Enable warnings	Yes	Cal factor efficiency multiplier Hp(10) 1.00

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# **Demo feature**

The 'Demo' feature allows to test the different dosimeter alarms.

ta	Parameters	Demo	Settings	Technical support 🖨
			2/	Prepare your dosimeter by clicking on a button on the left pane. Start the test by clicking on the Start Test button on the right pane. Stop the test by clicking on the Stop Test button on the right pane.
	Dos	imeter Pr	eparation	
			Prepare Do	Dosimeter Preparation
			Prepare Ra	to Alarm Test Stop Test
		Pre	pare Dose ar	nd Rate Alarm Test
			Prepare Tir	me Alarm Test

# Select preparation

On the left pane, select the dosimeter preparation to test.

Prepare Dose Alarm Test Example:

## Test

Once the preparation is selected, click on '**Start Test'** to start the test. The dosimeter is put in **MEASUREMENT** mode and the **alarm** corresponding to the selected preparation is heard (buzzer, ring, ...)



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# **Batch In / Out feature**

The 'Batch In / Out' feature allows to switchs the states (PAUSE, MEASUREMENT) of a set of dosimeters.

Batch Configuration	View M	anager	Administration	Settings	Technical support
Data	Parameters		Batch In / Out	Historical	DW Editor
Auto confirm	n 🗋 🕅 Auto confirm Out	Do not proce	ess already processed dosimet	ers Start	Stop
Log					t
DateTime	V Dosimeter	Туре	Params		1
		Clear L	.og Save Log as .xls		

## **Dosimeter state**

#### PAUSE mode:

When a dosimeter is in **PAUSE** mode, the 'Batch In / Out' process switchs its mode to the **MEASUREMENT** mode. Except if the dosimeter has already been proceessed: see '**Do not process already processed dosimeters**'.

### MEASUREMENT mode:

When a dosimeter is in **MEASUREMENT** mode, the 'Batch In / Out' process switchs its mode to the **PAUSE** mode. Except if the dosimeter has already been proceessed: see '**Do not process already processed dosimeters**'.

### Visual and hearing reporting

The whole process can be monitored by following the visual and hearing informations of the software.

#### Start the batch In /Out

Click on 'Start' to begin the 'Batch In / Out' process.

1. The process waits for the user to present a dosimeter. The radar is displayed and "searching", and a tone called 'search echo' is played regularly.



2. As soon as a one is detected a point representing the dosimeter is displayed on the radar and a specific tone called "processing echo" is heard.



- 3. At the end of the dosimeter process, a tone called 'completed echo' is heard,
- 4. A tone called 'bad echo' is heard once the 'Batch In / Out' process is completed for this dosimeter.
- 5. Present now another dosimeter and repeat this process ...

Note: The processed dosimeter can be in **PAUSE** or in **MEASUREMENT** mode.

## 'Autoconfirm In/Out' options

If neither 'Autoconfirm In'nor 'Autoconfirm Out' option is not checked:

• Before changing the dosimeter state in 'IN' state (MEASUREMENT mode), the user can set the following parameters (dose,

rate,):		
Dose Alarm SetPoint :	100	(mrem)
Rate Alarm SetPoint :	100	(mrem/h)
Dose Warning SetPoint :	100	(mrem)
Rate Warning SetPoint :	100	(mrem/h)
Duration SetPoint :	1:00:00	(HH:MM:SS)
		In Skip

Note: The 'IN' state can be skipped using the 'Skip' button.

• Before changing the dosimeter state in 'OUT' state (PAUSE mode), the following parameters are displayed:

Alarms and Warnings	
✓ Dose Alarm     ✓ Rate Alarm       ✓ Dose Warning     ✓ Rate Warning       ✓ Duration Alarm	
Dose : 0 (mrem) Rate : 0 (mrem/h)	
Duration : 0:00:16 (HH:MM:SS)	
Dut	Skip

Note: The 'OUT' state can be skipped using the 'Skip' button.

If the '**Autoconfirm In**' option is checked, the previous information for the '**IN**' state is not displayed. The dosimeter will be put in RUN Mode

If the 'Autoconfirm Out' option is checked, the previous information for the 'OUT' state is not displayed. The dosimeter will be put in PAUSE Mode

Note: The 'Autoconfirm In/Out' option can be activated / deactivated during the 'batch in / out' process.

## 'Do not process already processed dosimeters' option

When the choice 'Do not process already processed dosimeters' is checked, the 'batch In / Out' process cannot be applied to a dosimeter which has already been processed.

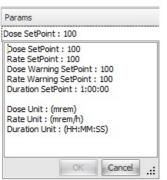
The 'already processed dosimeters' list is **cleared** when the '**Clear** button is used.

Note: The 'Do not process already processed dosimeters' option can be activated / deactivated during the 'batch in / out' process.

# Log

After each change of state of a dosimeter, the result of the operation is available with a click in the 'Params' column:

• For the 'IN' state:



• For the 'OUT' state:

Dose Alarm	: False
Rate Alarm	
Dose Warni Rate Warni	
Duration Ala	
Dose : 0	
Rate: 0	
Duration : 0	:31:23

Note: When the change of state failed, the error explanation is also available in the 'Params' column.

## Save log

Save all the logs displayed in an '.XLS' file using the 'Save as xls file' button.

## Stop the batch In / Out

Click on 'Stop' to finish the 'Batch In / Out' process.

Use the 'Clear' button to erase all the logs displayed in the list.

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# **Historical feature**

The 'Historical' feature allows to display all the actions (events, measures, commands,...) done with the dosimeter.

Data	Parameters	Ba	itch in / Out	Historical	۲ ۲	W. Editor	Ba	tch Configuration
	Append history	Get current	Get previous	Get all Save	current (.csv)	Save	tisplayed (.xls)	Load saved (.csv
ext								
		_						
istory Numb	Y 7							
Per Hist	A Date Time	A Record	Туре	Origin	Primary Dose (I	nren)	Primary Rate (mrem	n/h) Informations
Per Hist	▲ Date Time	A Record	Туре	Origin	Primary Dose (r	nrem)	Primary Rate (mrem	n/h) Informations
	Date Time Number : 1 (from 08 3a				Primary Dose (1	nren)	Primary Rate (niren	n/h) Informations
					Primary Dose (I	nren)	Primary Rate (mrem	a/h) Informations
	Number : 1 (from 08 3u	n 2012 09:35:10	to 08 Jun 2012 09: In run			nren)	Primary Rate (mren	n(h) Informations
	Number : 1 (from 00 )o 5 08 Jun 2012 09:35:18	n 2012 09:35:10 Event	to 08 Jun 2012 09: In run	15:59, 00mn 41s)		nren)	Primary Rate (mren	n(h) Informations
	Number : 1 (from 08 Ju 5 08 Jun 2012 09:35:18 6 08 Jun 2012 09:35:18	n 2012 09:35:10 Event Command	to 08 Jun 2012 09: In run Enter run mode	15:59, 00mn 41s)			Primary Rate (mren	(h) Informations

### Current

Click on 'Get current' button to display the 'actual' dosimeter history.

### Previous

To display the previous history, click on the '**Get previous**' button. Click several times on the '**Get previous**' button to retrieve 'older' history.

Note: If the 'Append History' choice is checked Append history when loading a previous history, it will be added to the grid, instead of replacing the currently displayed one.

## All

The '**Get all**' button displays **all** the history of the dosimeter. Note: The '**Get all**' action can take a long time; stop it using the 'Cancel Get All' button on the waiting window:

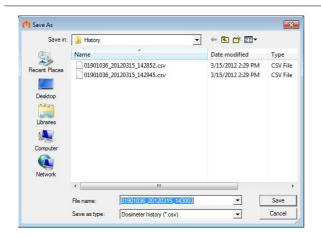


### Save history

### Current

Save the current history with the 'Save current (.csv)' button.

The default .csv name proposed has the following format : 'NumberDosimeter\_Date\_Time.csv':



## Displayed

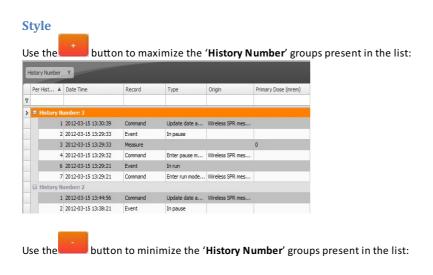
To save all the dosimeter history displayed in the list, click on 'Save displayed (.xls)' button.

The default .xls name proposed has the following format : 'DosimeterNumber\_Date\_Time.xls':

Save in:	listory		•	← 🗈 📸 🖛	
Recent Places	-	^ 20120315_143519.wls 20120315_143552.wls		Date modified 3/15/2012 2:35 PM 3/15/2012 2:35 PM	Type XLS File XLS File
Network	File name: Save as type:	III 01901036_20120315_1 Dosimeter history (*xls)	43630		Save

## **Load history**

Load a dosimeter saved history using the 'Load saved (.csv)' button.



	Per Hist 🔺	Date Time	Record	Туре	Origin	Primary Dose (mrem)
7						
>	History N	umber: 12				
	History N	umber: 11				
	History N	umber: 10				
	History N	umber: 9				
	History N	umber: 8				
	History N	umber: 7				
	History N	umber: 6				

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# **DM Editor feature**

The 'DM Editor' feature allows to create/modify dosimeter configuration files. A configuration file (also called '**DM file content**') contains all or a set of parameters of a dosimeter.

Data Parameters		Batch In / Out		Historical		DM Editor	
Open Save	Save As R	ead from DM Write to	DM	Remov	ve Intrinsic Rem	iove Selected	Close
I file content							
urce: C:\Documents and Settings	s\All Users\Applicat	ion Data\DmcUser\Test.DM			✓Multi	olumn De	osimeter : 8338
Configuration	×	Displayed units	mSv		Dose alarm set		
Dosimeter Interface	\$	Display upon activation	Nothing		Dose warning se		
Enable speaker	Yes	Latched rate alarm sound	No		Rate alarm set		
Transmitted rate	Max	User data		¥	Rate warning se Run-time warni		
Assignment	No	Measures		\$	Calibrations	ng set point	28,800
User message	SHAKED	Entry date (Date)	17 Apr 2012	2	Historical data		×
Displayed dose resolution	1µSv (0.1 mRem)	Entry time (s)	69,919		HISTORICAL GATA		Ý
Allow display of rate	Yes	Dose (mrem)	0.0				
Histogram error message	Yes	Rate (mrem/h)	0.0				
Display in pause	User message	Duration in measurement (	<b>s</b> 65				
Display mode in measureme		Com Settings		¥			
	Increment every	Thresholds		^			

See the 'Generalities' chapter to consult the legend of the vertical grids.

## Filling the grid

The grid content is the representation of what will compose the generated DM file.

It can be filled following two methods:

- Click on 'Read from DM' to download and fill the grid with all the parameters from the detected dosimeter.
- Click on 'Open' and chose an existing DM file to read it and fill the grid with its content.

## **Modify DM content**

To delete parameters from the view, select the parameters to delete and click on '**Remove Selected**'. The **<CTRL**> button can also be used to do a multi selection:

Configuration	*
Dosimeter activation	Normal
Allow sleep mode	Yes
Dosimeter mode	Autonomous
Enable rate alarm	Yes
Enable run-time warning	Yes
Enable warnings	No 🖣
Ack of run time alarm	Yes

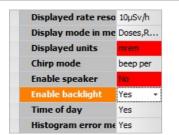
### **Intrinsic parameters**

Intrinsic parameters are strongly linked to one particular dosimeter, and cannot be written on another dosimeter. Then it can be usefu to remove them from the view: use the '**Remove Intrinsic**' button, and every intrinsic parameter will disappear.

Historical data	:	^
Date of last calibration (Date)	1/12/2012	
Date of next calibration (Date)	1/11/2013	
Alarm report		¥

## **Modify parameter value**

Click on a record, do modification and click on another record; the modified value becomes red:



Note: The 'greyed' values are disabled, only the values written in 'bold' can be modified:

alibrations	
Date of last calibration (Date)	11 Jan 2012
Cal Factor efficiency Hp(10)	182

### Menu Customizer

The Menu Customizer parameters are also imported in the 'DM file content'.

To access the **Menu Customizer**, click on corresponding '...' area:

IMI	☆	Display when active	Wearer name
Display constrast	14	Enable 3 seconds b	Disabled
Allow display of rat	Yes	Enable vibrator	Yes
Allow display of dos	Yes	Time format	24H
Displayed dose res	1µSv	Date format	MM-DD-YY
Displayed rate resc	10µSv/h	Rate alarm sound t	regular
Display mode in me	Doses,Rates,List(Pb)	Assignment	Yes
Displayed units	μSv	Language	English
Chirp mode	beep per impuls.	Display in pause	Custom message
Enable speaker	Yes	User displayed text	OSP
Enable backlight	Yes	Menu Customizer 🗕	
Time of day	Yes	Teletrans	*

### The Menu Customizer view is displayed and modifications can be done:

ource: Dosimeter Content			Multi columns view	Dosimeter : 01901036
Pause Data Pause Parameters	Measurement Data	Measurement Parameters	Autonomous Editable Parameters	
Available items		PRUSE	Selected items	
Hour (*) Date (*)			Dose (*) Maximum rate (*)	Hov
Full life dose (*)			Duration of integration in Measure (*)	
Full life duration (*)			Hour (*)	Rem
Total maintenance dose (*)				
Total maintenance duration (*)				Move
Dose (*)				
Current rate (*)				
Maximum rate (*)				
Duration of integration in Measure (*	")			
			Back	

To exit the 'Menu Customizer' view, click the 'Back' button:

### **Save DM content**

Once the dosimeter configuration content is correct, save it using the 'Save as' button: A '.DM' file is created for a G2/G2L dosimeter

A '.DM3' file is created for a G3 dosimeter

Note: Once the DM file content exists, the 'Save' button can be used.

## Write DM content

Use the '**Open**' button to open an existing 'DM file content' and click on '**Write to DM**' to apply this 'DM file content' to another dosimeter.

Note: The 'Open' button is available when a dosimeter is detected and only corresponding configuration files type are proposed.

lose DM content lick on 'Close' button	to delete the	ent DM file content.	
		Thresholds	
		Dose alarm set point (mrem)	100.0
		Dose warning set point (mrem)	100.0
		Rate alarm set point (mrem/h)	101.0
		Rate warning set point (mrem/h	100.0
Configuration		Configuration	
Raw count in histogram	Disable	Enable warnings	No
Thresholds			
Dose alarm set point (mrem)	100.0		
Dose warning set point (mrem)	100.0		
Rate alarm set point (mrem/h)	101.0		
Rate warning set point (mrem/h)	100.0		
Configuration		Constants	
Enable warnings	Yes	Cal factor efficiency multiplier Hp(10) 1.00	

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Batch Configuration feature



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# **Batch Configuration feature**

The 'Batch Configuration' feature allows to apply the same configuration to a batch of dosimeters.



#### Select batch file

Click on 'Select File' to choose the batch configuration file to download to dosimeter.

A batch configuration file with the extension '**.DM**' can be applied to a **G2/G2L** dosimeter. A batch configuration file with the extension '**.DM3**' can be applied to a **G3** dosimeter. Note: See the 'DM Editor' feature for the creation of the 'DM' files.

### Start the batch configuration

Click on 'Start' to begin the 'Batch Configuration' process.

1. If no dosimeter is detected, the radar is displayed without point:



And a tone called 'search echo' is heard.





And the dosimeter starts to be processed with a tone called 'processing echo'.

- 3. At the end of the dosimeter process, a tone called 'completed echo' is heard,
- 4. A tone called 'bad echo' is heard once the 'Batch configuration' process is completed for this dosimeter.
- 5. Present now another dosimeter and repeat this process ...

Note: The processed dosimeter can be in **PAUSE** or in **MEASUREMENT** mode.

#### 'Do not process already processed dosimeters' option

When the choice 'Do not process already processed dosimeters' is checked, the 'batch Configuration' process cannot be applied to a dosimeter already processed.

The 'already processed dosimeters' list is reset when the 'Clear' button is used.

Note: The 'Do not process already processed dosimeters' option can be activated / deactivated during the 'batch configuration' process

## Log

When the 'batch configuration' process is running, two lists are filled with logs:

- The 'left list' contains the detected dosimeter(s) logs.
- The 'right list' contains the processed dosimeter(s) logs.

The result of the batch configuration process is available in the 'right list' with the mouse over the 'Comments' column:

	#	DateTime	DMC Type	Dosimeter	Comments		
>	1				Configuration		
	Configuration of 833886 is completed using this file : C:\DMC2000XB.DM						

## Save log

Save all the logs displayed in an '.XLS' file using the 'Save as xls file' button.

## Stop the batch configuration

Click on 'Stop' to finish the 'Batch Configuration' process.

Use the 'Clear' button to erase all the logs displayed in the lists.

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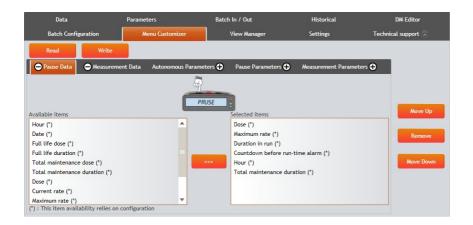




# Menu Customizer feature

The 'Menu Customizer' feature allows to modify the Data/Parameters items displayed on dosimeter in Pause, Measurement and Autonomous states.

Note: This feature is only available for dosimeter DMC 3000 G3.



### Read menu data

Click on 'Read' to load the actual dosimeter menus in the 'Selected items' list.

## Select menu data

All the dosimeter menus can be customized selecting the corresponding tab:

#### - 'Pause data'

These data are displayed when the dosimeter is in Pause state and available with the '-' button :



#### 'Measurement data'

These data are displayed when the dosimeter is in Measurement state and available with the '-' button :



#### - 'Autonomous Editable parameters'

These parameters are displayed when the dosimeter is in Autonomous state and available with the '+' button :



Note: if the dosimeter is not in 'Autonomous' mode, modify its parameter 'dosimeter mode' and change it from 'Satellite' to 'Autonomous'.

#### - 'Pause parameters'

These parameters are displayed when the dosimeter is in **Pause** state and available with the '+' button :



## - 'Measurement parameters'

These parameters are displayed when the dosimeter is in **Measurement** state and available with the '+' button :



## Modify menu data

Select an item in the '**Available items**' list and add it to the '**Selected items**' list using the button. Note: The drag & drop is also available.

In the 'Selected items' list, select one item and use the 'Move Up', 'Move Down' or 'Remove' buttons to customize the menu.

The position of the '**Selected items'** will determine the order of the items displayed on the dosimeter. Some items are followed by a '(\*)' which means that the item may not be displayed, depending on one or more parameter of the dosimeter.

## Save menu data

Once the menu is modified, select the 'Write' button to save and apply the modifications.

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# **View Manager feature**

The 'View Manager' feature allows to create custom views with dosimeter Data and Parameters.

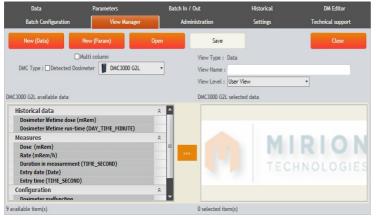


## Data view

#### **Create view**

Click on 'New (Data)' to create a new data view.

The 'Available data' list is displayed with the corresponding data of the dosimeter and the 'Selected data' list is empty:



Drag and drop the items from the 'Available data' list to the 'Selected data' one:

Data	Parameters	Bat	tch In / Out	Historical	DM Editor
Batch Configuration	View Manager		Administration	Settings	Technical support
New (Data)	New (Param)	Open	Save		Close
	Aulti column		View Type : Dat	a	
DMC Type : Detected Dosi	meter DMC3000 G2L	*	View Name :		
			View Level : Use	er View	•
3000 G2L available data			DMC3000 G2L set	ected data	
Historical data		*	Measures		*
Dosimeter lifetime dose (m			Dose (ml	Rem)	
Dosimeter lifetime run-tim	e (DAY_TIME_MINUTE)		Rate (mR	and the second second second second	
Configuration		*		in measurement (TII)	
Dosimeter malfunction			Entry dat		
Time saturation			>>> Entry tim	e (TIME_SECOND)	
					HNOLOGIE
vailable item(s)			5 selected item(	5)	

Note: Drag & drop a node is also possible (example: "Measures" node)

Enter the data 'View Name' and select the 'View Level':
---



<u>Note:</u> See the '<u>Administration</u>' feature for more explanation on the '**View level**'. The '**View Level**' is only available with the <u>Enterprise edition</u>.

#### Save view

Save the data view by clicking the 'Save View' button.

The 'data view' file name has the following format:

<DetectedDosimeter>\_ViewData <View Name>.xml
Example: 'DMC3000 OPL\_ViewData All.xml'

### **Parameters view**

### **Create view**

Click on 'New (Param)' button to create a new parameters view.

The 'Available parameters' list is displayed with the corresponding parameters of the dosimeter and the 'Selected parameters' list is empty:



Drag and drop the items from the 'Available parameters' list to the 'Selected parameters' one:

Data	Parameters	•	atch in 7 Out	mistoricat	Dim Editor
Batch Configuration	View Manager		Administration	Settings	Technical support
New (Data)	New (Param)	Open	Save		Close
	Multi column		View Type : Par	rameter	
DMC Type : Detected Dos	imeter DMC3000 G2L	-	View Name :		
			View Level : Us	er View	
			view Dever 1 Os	er view	
C3000 G2L available paramete	rs		DMC3000 G2L se	lected parameters	
User data		* ^	Threshold	ls	
Wearer ID				rm set point (mRem)	
RWP				rning set point (mRen	
Raw Wearer Name				rm set point (mRem/ł	
Wearer Name				ning set point (mRem	
Dosimeter Interface		~	>>> Run-time	e warning set point (T	
Displayed units					HNOLOGIE
Chirp mode					
Display in pause					
User message					
Allow display of dose		-			
available item(s)			5 selected item	s)	

Note: Drag & drop a node is also possible (example: 'Thresholds' node)

Enter the parameters 'View Name' and select the 'View Level':

View Level :	User View 🔻
	User View
	Supervisor View
	Advanced View

<u>Note:</u> See the '<u>Administration</u>' feature for more explanation on the '**View level**'. The '**View Leve**l' is only available with the <u>Enterprise edition</u>.

### Save view

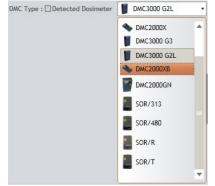
Save parameters view by clicking the 'Save View' button.

The parameters view file name has the following format:

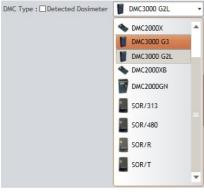
<DetectedDosimeter>\_ViewParameter <View Name>.xml Example: 'DMC3000 OPL\_ViewParameter All.xml'

## **Detected Dosimeter**

When no dosimeter is detected, the option 'Detected Dosimeter' is disabled and a dosimeter can be selected in the list:



When a dosimeter is detected, the option 'Detected Dosimeter' is enabled and unchecked and the detected dosimeter is automatical selected in the list:



The option 'Detected Dosimeter' can also be checked to automatically select the detected dosimeter: DMC Type : ✓ Detected Dosimeter

The 'Available data' list or 'Available parameters' list is refreshed with the corresponding dosimeter Data or Parameters.

### **Open a view**

To open an existing view, click the '**Open**' button and select a Data or Parameters view.

## **Close a view**

To close the current Data or Parameters view, click the 'Close' button.

## **Style**

Check the ' Multi columns view' choice Multi column to display the list with multi column.

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# **Administration feature**

The 'Administration' feature allows to manage users (Add/Modify/Delete). This feature allows also to customize users profile by giving them access to specific features(tabs).

The 'user' corresponds to the Windows account used on the machine where is started the DMCUser application.

Data Parame	eters Batch In / Ou	ıt Historical	DM Editor	Batch Configuration
Menu Customizer	View Manager	Administration	Settings	Technical support
Users				
Populate from Active Direct	ory	•		
Select an user : Guest	Ŧ			
Login : Guest				
This user is an Administrator				
Access to user views	Access to Menu Customizer	Access to Batch In/Out		
Access to supervisor views	Access to DM Editor	Access to Historical		
Access to administrator view	s Access to Batch Configuratio	n		
Create User Modify Use	r Delete User			
		Luser Simulation		

### **Create a user**

To create a new user, select 'New User' from the 'Select an user' combo box and enter a 'Login' name:

Select an user	: New User	•
Login : User 1		

To use an existing Windows account, click the 'Populate from Active Directory' button and select a user name:

Populate from Active Directory	Guest -
Select an user : New User	Guest
Login : Guest	ASPNET
	krbtgt

Access to Historical

## Accessibility

Configure the views and features available for this user.

### Check the available 'view(s)':

- Access to user views
- Access to supervisor views
- Access to administrator views

## Check the available 'feature(s)':

Access to Menu Customizer Access to Batch In/Out

Access to DM Editor

Access to Batch Configuration

Use the box 'This user is an Administrator' to give user the access to every views and every features of the application:

This user is an Administrator		
Access to user views	Access to Menu Customizer	Access to Batch In/Out
Access to supervisor views	Access to DM Editor	Access to Historical
Access to administrator views	Access to Batch Configuration	

Once the user configuration is finished, click on 'Create User' button.

# Modify a user

To modify a user, select an existing user from the '**Select an user**' combo box. And after modification, click the **'Modify User**' button to save it.

## **Delete a user**

To delete a user, select an existing user from the 'Select an user' combo box and use the 'Delete User' button.

### **Simulation**

To simulate a user and to verify its features access, select it in 'Select an user' and click on 'User Simulation' button:



Note: All users can be selected except 'New User'

The application is set with the available 'Views' and 'Features' of the user.



to exit the simulation mode.

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# **Settings feature**

The 'Settings' feature allows to configure the global application settings:

- Reader configuration
- Dose and Rate units
- Duration unit

	Data	Parameters	Batch In / Out	Historical	DM. Editor
	Batch Configuration	View Manager	Administration		Technical support
	Reader	_			Units
	Reader has been configu	ired on port : 12			Displayed Dose Unit :
			Connec		mrem *
			Comice		Displayed Rate Unit :
	Advanced Options			*	mrem/h *
•	Install drivers			*	Displayed Duration Unit :
					HH://///:SS *
					DWC User Update
					Search update
					At every startup     Every 30 days
					Reader configuration
					English - US 🔹

### **Connect a reader**

There are three methods to connect a reader.

## 1.Auto reader selection

Connect the reader and click on 'Connect' button.

### 2.Manual reader selection

Open the ' <b>Adv</b> a	anced Opti	i <b>ons'</b> pane and select ' <b>M</b> a	anual read	ler selection':	
Advanced Optio	ns				*
O Auto reader	selection 🤅	Manual reader selection		Number of retry :	3
Device	Com Port	State			
	1	Serial Port (free)	R	efresh	
	2	Serial Port (free)			
Speed	38400		*		

Click the '**Refresh**' button to check the devices connected to the machine. Select into the list the device corresponding to the reader and click on '**Connect**' button.

Note: The number of connection can be set with the 'Number of retry' field.

## **3.Install drivers**

Open the 'Install drivers' pane and click on the image of the reader:



Once the driver installation is done, click on 'Connect' button.

## **Reader status**

### Connected

On the 'Settings' feature, the status is green and a message indicates on which port the reader is connected:



At the bottom of the main window, the 'Reader Status' is set to 'green':

Reader Status

#### Not connected

On the 'Settings' feature, the status is red and a message indicates what to do to solve the issue: Installation failed, Please unplug, plug it again and try again, thanks

At the bottom of the main window, the '**Reader Status**' is set to 'red': Reader Status

The list of supported readers LDM 320W LDM 320D LDM 220-2D

## Units

To change the displayed units for 'Dose' and 'Rate', click on the corresponding combo box and select the unit:



The choice is validated once the dose/rate unit is selected. <u>Note:</u> '**Dose**' and '**Rate**' units are linked together, so modifying the dose unit modifies also the rate unit.

To change the displayed unit for '**Duration**', click on the corresponding combo box and select the unit: Displayed Duration Unit : HH:MM:SS



The choice is validated once the duration unit is selected.

## Language

To change the language, open the corresponding list and select the desired language :



The application will need to be restarted.

## **Reader Configuration**

Some internal reader parameters can be changed. Click the "Reader Configuration" button.

Reader configuration

#### A new window opens :

n Reader configuration					
User Parameters					
Read	Write		Rest	ore	
Current mode		Turnstile	•	Remove dosimeter to open the gate	
Limited range		No	-		
Default number of retr	ies	4	-		
Read user paramete	ers are cohe	erent			

Click "Read" to acquire the current settings from the reader.

- "Current mode" : can be "Normal" (default) or "Turnstile" if the reader is to be used with a turnstile.
- "Limited range" : reduces or not (default) the reader range.
- "Default number of retries" : Buil-in number of communication retries (default = 4).

Click "Write" to apply the changes onto the reader.

Click "Restore" to restore the default values of these parameters. A confirmation popup will appear :

Warning			×
2	Do you really wan	t to restore user	parameters?
	Oui	Non	

## **DMC User Update**

<u>Note:</u> The update process of DMC User need to reach an updater server on the Internet. TCP port 9003 need to be allowed for outgoing connection.

If the 'Search Update' option is enabled, you can specify whether an update of DMC User will be search at every start up of the software, or at start up every X days.

If an Update is available you will see an inform	mational icon on the	upper part of the screen :
Detect Dosimeter <b>V Dosimeter Number</b>	01900635	<b>I</b>
If you move the mouse over this icon, a toolti	p indicating the new	release version will appear.
Detect Dosimeter 🛛 🗸 Dosimeter Number	01900635	i
······································		A new release (V. 0.99.7.0) is available.
Batch Configuration Menu	Customizer	View Click to download the setup.
Click the informational icon to start the down Once downloaded a setup icon will appear :	load of the new vers	ion. The download is done in background.
Detect Dosimeter	01900635	
If you click on it, it will run the setup and inst	all the latest version	of DMC User.





# **Technical Support feature**

The 'Technical Support' feature allows to manage the DMCUser license and to find information on Mirion Technologies support.

Data	Parameters	Batch In / Out	Historical	DM Editor
Batch Configuration	View Ma	ager Administration	n Settings	Technical support
Support contact	_	_	_	_
Americas		France	Asia	
Mirion Technologies ( 5000 Highlands Parlwas Smyrna, GA 30082 USA Tel: (770) 432-2744 Fax: (770) 432-9179 License		Mirion Technologies (APGI) SA Lieu-dit Calès Route d'Eygulères F-13113 Lamanon, France Tel: +33 (0)4 90 59 59 59	Mirion Technologies Shan Room 801 78 Jiangchang SanLu - Zha District Shanghai 200436, China Tel: +86-21-6180 6921 Fax: +86-21-6180 6924	-
Client Server Configur	Ples	e choose the usage of this installati Client Only OClient and : erver information ierver name ( or IP ) localhost ierver port 9001 Check Link		

## Licenses

## Demo

The default edition is the **DEMO** one.

With the DEMO edition, following features are available:

- <u>Data</u>
- Parameters
- <u>Demo</u>
- <u>Settings</u>
- <u>Technical Support</u>

Two other editions are available:

- Basic
- Enterprise

## **Basic**

The BASIC edition is a single post license. With the BASIC edition, following features are available:

- The **DEMO** edition features +
- Batch I/O
- <u>Historical</u>
- DM Editor
- <u>Batch Configuration</u>
- Menu Customizer (for DMC3000 G3 only)
- <u>View Manager</u>

## **Enterprise**

The ENTERPRISE edition is a 5 posts license.

With the ENTERPRISE edition, following features are available:

- The **BASIC** edition features +
- <u>Administration</u>

## Unlock the BASIC license (single post)

- Contact the MIRION Technologies sale representative to obtain a BASIC license,
- Go to the 'Technical Support' feature,
- Enter the license in the 'License' pane,
- The '**Go**' button becomes clickable:

License		
	To unlock the Basic or Enterprise edition of DMC User, a license is required. To obtain a license please contact your Mirion Technologies sales reprensentative	
Company Enterprise A	User User 1 License MGP-X000X-X000X Go Demo	

After clicking the 'Go' button, the new license is displayed:

Go	Basic	and the application	has to be re	estarted	:	
Please	restart	your application	in order	to use	the new	license.

After the restart of the application, the BASIC edition is visible in the window title of the DMCUser application:

DmcUser V. 0.27 - Basic License - SevenEnterpx86\Administror

The 'Technical Support' feature has also changed:

## Technical support 🔒

Note: The different displays of the 'Technical Support' feature are:

- With the DEMO edition:
- With the BASIC edition:
- With the ENTERPRISE edition:

	Technical support 🔒
า:	Technical support

Technical support 🔒

## **Unlock the ENTERPRISE license (client/server)**

- Contact the MIRION Technologies sale representatives to obtain an ENTERPRISE license,
- Go to the 'Technical Support' feature,
- Enter the license in the appropriate place,
- The 'Go' button becomes clickable:

License									A	*
		required			ition of DMC User, a li contact your Mirion T		5			
Company	Enterprise A	User	User 1	License	MGP-XXXXX-XXXX-X	XXXXX	Go	Demo		

After clicking the 'Go' button the new license is displayed:

Co Enterprise and the application has to be restarted: Please restart your application in order to use the new license.

At the same time, the server configuration window is displayed:

Server configuration Please choose the usage	of this installation of DMC User
	O Client and Server
Server information	
Server name ( or IP )	localhost
Server port	9001
Check Link	
Save configur	ation Cancel

### **Configure a Client**

To configure a Client, check the 'Client only' option, enter the Server name (or IP address) and click on 'Check Link' button to verify it.

Note: Enter 'localhost' for the 'Server name' if there is only one instance of DMCUser (the Server is also the Client).

#### **Configure a Server**

To configure a **Server**, check the '**Client and Server**' option Don't forget to click on '**Save configuration**' button before continuing.

After the restart of the application, the ENTERPRISE edition is visible in the window title of the DMCUser application:

DmcUser V. 0.27 - Enterprise License - SevenEnterpx86\Administror (Admin)

The padlock of the 'Technical Support' feature has also changed:

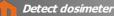
Technical support

## **Support**

Find the support contact information corresponding to the localization.

To create a 'maintenance' dump file from a dosimeter click on the '**Create maintenance file**' button and sen it to our technical support for analysis.

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## **Detect a dosimeter**

## No dosimeter detected

Click on 'Detect Dosimeter' button when no dosimeter is present in front of the reader. The dosimeter 'information' area is:

Dosimeter Number

and the message is:

Note: See also 'Messages and Events'.

## A dosimeter detected

Present the dosimeter to the reader and click the 'Detect Dosimeter' button.

Once the dosimeter is detected, its number is displayed:

Dosimeter Number 01901036



Note: See also 'Messages and Events'.

### **Dosimeter information**

Click on the dosimeter pane to have more information:

 Dosimeter Number
 01900780

 Dosimeter V: 5.0.C
 Type : DMC3000 G3
 Datetime : 08/06/12 10:00:14

 LdmNet V: 3.1.0
 Supervisor

 Reader V: 1.5
 Type : LDM320

 Descriptor V: 3.1.0.0

In this window, find, among others, the **Reader** and **Dosimeter** information.

## **Dosimeter in PAUSE mode**

When the dosimeter is in PAUSE mode, the dosimeter is:

Dosimeter Number 01901036

Note: See also 'Go to Measure Pause'

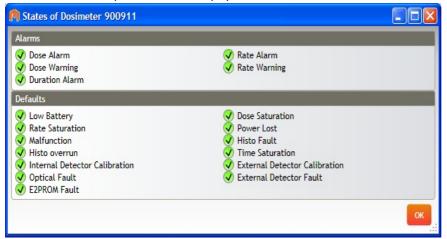
## **Dosimeter in MEASUREMENT mode**

When the dosimeter is running, a border and a blinking icon is added to the dosimeter window:

Dosimeter Number 01901036

## **Defaults and Alarms**

Click on the dosimeter picture to display the 'States' window with its defaults and alarms indicators:



### **Dosimeter with Defaults and Alarms**

When the dosimeter has no defaults and alarms, no icon is added to the dosimeter picture:



When the dosimeter has at least one warning alarm, a 'warning' icon is added to the dosimeter picture:



When the dosimeter has at least one default error or one default alarm, an 'error' icon is added to the dosimeter picture:



## Legend

#### Defaults

- The indicator is green when there is no error. Example: V Low Battery
- The indicator is red if there is an error.
- Example: 🗙 Reboot

## Alarms

.

- Alarms
  - $\,\circ\,$  The indicator is green when there is no error. Example: V Dose Alarm
  - $\,\circ\,$  The indicator is red if there is an error.
  - Example: ጰ Dose Alarm

  - Warning  $\,\circ\,$  The indicator is green when there is no error.
    - Example: V Dose Warning
    - $\,\circ\,$  The indicator is orange if there is an error
    - Example: 🛆 Dose Warning

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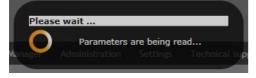


## **Messages and Events**

#### **Messages**

During the DMCUser utilization, the messages are displayed in the bottom of the window (left down corner). These messages displayed indicate to the user if the action was successful or not.

Note: When a process is running, a waiting window with messages can also be displayed:



#### Information message

When the action is successful, an information message is displayed in green:

Warning message If there is a warning, the message is displayed in orange: « Get all » command cancelled

#### **Error message**

If the action failed, the error message is displayed in red:

No DMC Detected

### Tooltip

For all the **items** present in '**vertical**' or '**horizontal**' lists, a **tooltip** is available passing the mouse cursor over the item. Note: See also the 'Data Grids' part.

### **Events**

All the messages displayed during the DMCUser utilization are also saved into the 'Events' window.

Note: Pass the mouse cursor over the 'Events' button to have information on stocked events:



No event

When there is no event, the 'Events' button is disabled:

Events

Information event

If there are only successful events, an 'information' icon is added to the 'Events' button:

Events

The information events are displayed in green:

n Eve	ents List					, • ×
	🛞 Hide O	Error(s)	👍 Hide 0 War	ning(s)	Hide 1 Infos(s)	
Eve	nts		_		_	
	3/15/2012 6:14:52 PM	Informational	DM : 01901036	Last 'Deter	ct Dosimeter' : 18:14:52	Î
						•
			рк	Clear		

#### Warning event

If there is at least one warning event, a 'warning' icon is added to the 'Events' button:



The warning events are displayed in orange:

Events List				• <b>X</b>
🛞 Hide O Erro	r(s)	🔥 Hide 1 Warr	ning(s) Hide 8 Infos(s)	
Events				
3/15/2012 6:20:59 PM Wa	rning	DM : 01901036	« Get all » command cancelled	
3/15/2012 6:20:59 PM Inf	ormational	DM: 01901036	Get all histories : 18:20:59	
3/15/2012 6:20:57 PM Infe	ormational	DM: 01901036	Cancelling « Get all » command, please wait	
3/15/2012 6:20:00 PM Inf	ormational	DM: 01901036	Last parameters update : 18:20:00	
3/15/2012 6:19:47 PM Infe	ormational	DM: 01901036	Dosimeter already processed, remove dosimeter.	
3/15/2012 6:19:46 PM Inf	ormational	DM: 01901036	Dosimeter processed.	
3/15/2012 6:19:46 PM Inf	ormational	DM: 01901036	3/15/2012 18:19:46 01901036 processed.	
3/15/2012 6:19:41 PM Inf	ormational	DM : N/A	Dosimeter is being processed.	
3/15/2012 6:14:52 PM Info	ormational	DM: 01901036	Last 'Detect Dosimeter' : 18:14:52	Ŧ
	_			
	0	ж	Clear	
	1.000			

#### **Error event**

If there is at least one failed event, an 'error' icon is added to the 'Events' button:

#### 🛞 Events

The errors events are displayed in red.:

Hide 173	Error(s)	Hide 6 Warr	ning(s) Hide 22 Infos(s)	
ents		_		-
3/15/2012 6:12:08 PM	Error	DM:N/A	No DMC Detected	
3/15/2012 6:06:54 PM	Informational		Last 'Detect Dosimeter' : 18:06:54	
3/15/2012 6:06:41 PM	Informational	DM: 01901036	Last 'Detect Dosimeter' : 18:06:41	
3/15/2012 6:06:20 PM	Informational	DM: 900746	Last 'Detect Dosimeter' : 18:06:20	
3/15/2012 6:06:16 PM	Error	DM:N/A	(-50084) COM connexion failed	
3/15/2012 6:06:16 PM	Error	DM:N/A	(-50084) COM connexion failed	
3/15/2012 6:06:16 PM	Error	DM:N/A	(-50084) COM connexion failed	
3/15/2012 6:06:12 PM	Error	DM:N/A	(-30701) Timeout serial line	
3/15/2012 6:06:12 PM	Error	DM:N/A	(-30701) Timeout serial line	
3/15/2012 6:06:12 PM	Error	DM:N/A	(-30701) Timeout serial line	
3/15/2012 6:05:56 PM	Informational	DM: 01901036	Go to Pause : 18:05:56	
3/15/2012 5:49:21 PM	Informational	DM: 01901036	Go to Measure : 17:49:21	
3/15/2012 5:49:20 PM	Informational	DM : 01901036	Undate Date/Time : 17:49:20	Ť
		ок	Clear	



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Navigation: DMCUser Help > DMCUser principles >

## Go to Measure / Pause

#### **Go to Measure**

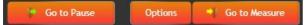
Pass the dosimeter from the **PAUSE** mode to the **MEASUREMENT** mode.



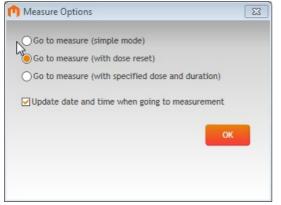
Note: See also 'Detect Dosimeter'

#### Go to Measure option

Different modes and options are available with the **MEASUREMENT** mode.



#### Click on the 'Options' button to display the 'Measure Options' window:



#### Modes

Three 'Go to measure' modes are available when the dosimeter goes to **MEASUREMENT** mode:

- 'Simple mode': the 'dose' and 'duration' are kept from the last use
- 'With dose reset': the 'dose' and 'duration' values are reset
- 'With specified dose and duration': the 'dose' and 'duration' are set by user:

Go to measure - Preset values	
Primary Dose (mrem)	1.2
Duration (s)	300
Cancel	ок

#### Option

One option is proposed:

• **'Update date and time when going to measurement'**: the dosimeter is updated with the **current** date and time when going to measurement mode.

#### **Go to Pause**

Pass the dosimeter from the **MEASUREMENT** mode to the **PAUSE** mode.

🕨 Go to Pause

Click on the 'Go to Pause' button

The color of the dosimeter border changes to grey and the blinking icon is removed: **Constant Sector Dosimeter Number O1901036** 

Note: See also 'Detect Dosimeter'

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Navigation: DMCUser Help >

# Use the Data grids

Two types of grids are used in the DMCUser application.

## 'Vertical' grid

User data	*
Task code	123
Wearer ID	393939494400000
🗄 User data area	000F00000000000000000000000000000000000
TLD / Badge	tld1234
	RWP
User data area	000E00000000000000000000000000000000000
MMI	*
User displayed text	GO ARGOS
Display constrast	15
Display in pause	Custom message
Displayed units	μSv
Chirp mode	beep per impuls.
Allow display of rate	Yes
Allow display of dose	Yes
Displayed dose resolution	10µSv
Displayed rate resolution	10µSv/h
Display mode in measurement	Doses,Rates,List(Pb)
Enable speaker	Yes

# 'Horizontal' grid

H	History Number 🔻							
	Date Time	Record	Туре	Origin	Primary Dose (mrem)	Primary Rate (mrem/h)		
7								
>								
	2012-03-16 14:00:00	Command	Enter in stand					
	2012-03-16 13:49:13	Event		Sleep mode exit b				
	2012-03-16 13:18:00	Command	Enter in stand					
	2012-03-16 13:08:45	Command	Enter pause m	Wireless SPR mes				
	2012-03-16 13:08:45	Measure			0	0		

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### Navigation: DMCUser Help > Data Grids >

# Vertical grid

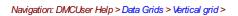
User data	*		
Task code	123		
Wearer ID	393939494400000		
🗄 User data area	000500000000000000000000000000000000000		
TLD / Badge	tld1234		
	RWP		
User data area	000E0000000000000000000000000000000000		
MMI	*		
User displayed text	GO ARGOS		
Display constrast	15		
Display in pause	Custom message		
Displayed units	μSv		
Chirp mode	beep per impuls.		
Allow display of rate	Yes		
Allow display of dose	Yes		
Displayed dose resolution	10µSv		
Displayed rate resolution	10µSv/h		
Display mode in measurement	Doses,Rates,List(Pb)		
Enable speaker	Yes		

The 'vertical' grid can be customized:

- Minimize / Maximize group
- Columns width
- Row height

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Minimize/Maximize group





# Minimize / Maximize group

To minimize a group on a vertical grid, click on the button. The group is minimized:

Teletrans	¥
Com Settings	¥
Constants	¥

To maximize a group on a vertical grid, click on the southon. The group is maximized:

Teletrans		\$
Enable telemetry	On	
Com Settings		×
Constants		¥

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# Change column width

To change the column width on a vertical grid, click on a column line and drag and drop to the left or right:

User data	\$	Displayed dose reso	10µSv
Task code	123	Displayed rate reso	10µSv/h
Wearer ID	393939494400000	Display mode in me Doses,Rates,List(Pl	
User data area	000E0000000000000000	Enable speaker	es
Wearer name	Fredo	Enable backlight	Yes
TLD / Badge	tld1234		
RWP	RWP	Time of day	Yes
User data area	000E0000000000000000	Histogram error me	Yes

Note: if the vertical grid in displayed in 2 parts (like previous example), the drag and drop is only available on the left part.

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To change the row height on a vertical grid, click on a vertical line and drag and drop up or down:

Task code	123
Wearer ID	393939494400000
User data area 🕴	000E000000000000000000
Wearer name 🔰	Fredo
TLD / Badge	tld1234
RWP	RWP
User data area	000E00000000000000000

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Navigation: DMCUser Help > Data Grids >

# Horizontal grid

Н	History Number 🔻						
	Date Time	Record	Туре	Origin	Primary Dose (mrem)	Primary Rate (mrem/h)	
7							
>							
	2012-03-16 14:00:00	Command	Enter in stand				
	2012-03-16 13:49:13	Event		Sleep mode exit b			
	2012-03-16 13:18:00	Command	Enter in stand				
	2012-03-16 13:08:45	Command	Enter pause m	Wireless SPR mes			
	2012-03-16 13:08:45	Measure			0	0	

The 'horizontal' grid can be customized:

- Sorting records
- Grouping records
- Filtering records
- Hide / Display columns

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### Sort records

To sort records by a column's values, click the target column's header, until an Up or Down Arrow icon is displayed within the header. The Up and Down Arrows indicate ascending and descending sort orders respectively.

The "Date Time" column has been sorted in ascending order:

Da	ate Time 🔺	Record	Туре
Θ	History Number: 1		
	2012-03-16 12:08:33	Command	Enter run mode
	2012-03-16 12:08:34	Event	In run
	2012-03-16 13:08:38	Event	Duration alarm
	2012-03-16 13:08:45	Event	In pause
	2012-03-16 13:08:45	Measure	
	2012-03-16 13:08:45	Command	Enter pause m
	2012-03-16 13:18:00	Command	Enter in stand

#### The "Date Time" column has been sorted in descending order:

Date	Time	¥	Record	Туре
	4			
ΘH	istory Number: 1	L		
20	012-03-16 13:18:0	0	Command	Enter in stand
20	012-03-16 13:08:4	5	Command	Enter pause m
20	012-03-16 13:08:4	5	Measure	
20	012-03-16 13:08:4	5	Event	In pause
20	012-03-16 13:08:3	8	Event	Duration alarm
20	012-03-16 12:08:3	4	Event	In run
20	012-03-16 12:08:3	3	Command	Enter run mode

To remove sorting by a column, click a column header while holding the CTRL key down. You can also select "Clear Sorting" from the column header context menu.

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## **Group records**

To group records by a specific column, drag the column header from the column header line to the group panel:

H	listo	ry Number 🔻		
	Da	te Time 🔹	Record	Туре
7				
	Ξ	History Number: 2		
		2012-03-19 15:20:10	Command	Update date a
		2012-03-19 15:17:30	Command	Enter pause m
		2012-03-19 15:17:30	Measure	
		2012-03-19 15:17:30	Event	In pause
		2012-03-19 15:12:41	Command	Enter run mode
		2012-03-19 15:12:41	Event	In run
	Θ	History Number: 1		

To cancel the grouping function, drag back the grouped column header to the column header line:

	Da	te Time 🛛 🔻	Record	Туре
7				
	Θ	History Number: 2		
		2012-03-19 15:20:10	Command	Update date a
		2012-03-19 15:17:30	Command	Enter pause m
		2012-03-19 15:17:30	Measure	
		2012-03-19 15:17:30	Event	In pause
		2012-03-19 15:12:41	Command	Enter run mode.
		2012-03-19 15:12:41	Event	In run

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# **Filter records**

To filter records by a column's values, type the desired filtering value in the corresponding cell of the filter line.

In the following example, only rows with a rank containing "Reset" are displayed:

H	listo	ry Number 🔻			
	Da	te Time	Record <sup>9</sup>	Туре 🔻	Origin
7			command		
	Θ	History Number: 2			
		2012-03-19 15:20:10	Command	Update date a	Wireless SPR mes
		2012-03-19 15:12:41	Command	Enter run mode	Wireless SPR mes
		2012-03-19 15:17:30	Command	Enter pause m	Wireless SPR mes
	Θ	History Number: 1			
		2012-03-19 15:20:11	Command	Enter run mode	Wireless SPR mes
		2012-03-19 15:20:13	Command	Enter pause m	Wireless SPR mes

#### To remove sorting by a column, empty the filtering cell of the filter line.

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# Hide / Display column

### Hide a displayed column

To hide a displayed column from the grid, drag its header onto the cells area and drop it:

F	listo	ry Number 🔻			
	Da	ite Time	Record	🖗 Туре	Origin 🗸 🔻
7			command		
>	Ð			_	
	Θ	History Number: 1			
		2012-03-19 15:20:11	Command	Enter run mode	e Wireless SPR mes
		2012-03-19 15:20:13	Command	Enter pause m.	Wireless SPR mes

### Display a hidden column

To display a hidden column onto the grid, right click on the header line and chose "Column Chooser" from the context menu:

	Date Time	Record <sup>9</sup>	Туре	A↓ Sort Ascending
7		command		Z Sort Descending
>	History Number: 2			Clear Sorting
	History Number: 1			
	2012-03-19 15:20:11	Command	Enter run mode	Group By This Column
	2012-03-19 15:20:13	Command	Enter pause m	Hide Group By Box
				Remove This Column
				📋 Column Chooser
				Best Fit
				Best Fit (all columns)
				🚏 Filter Editor
				Show Find Panel
				Hide Auto Filter Row

#### The Customization Form will be displayed, listing all hidden columns:



Drag the required column from the Customization Form onto the column header line and drop it where you want it to be:

Cust	omization		x			
Origi	in	~	v			
Per H	History Id					
Seco	ondary Dose	(mrem)				
Seco	ondary Rate	(mrem/h)	$\searrow$			
Hist	tory Number	Y				
	tory Number Date Time	Y	Record	⊽ Туре		Primary Dose (mrem)
D		Y	Record	Ŷ Туре		Primary Dose (mrem)
D 7				<sup>♥</sup> Туре	•	Primary Dose (mrem)
□ 7 2	ate Time	umber: 2		♥ Туре	•	Primary Dose (mrem)
D	Date Time History N History N	umber: 2	command	Туре	un mode	Primary Dose (mrem)

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### LdmNetManager

The LdmNet library offers to Mirion softwares the ability to communicate with the dosimeter readers. Each software may have to use a specific version of this library. Recent softwares automatically register their own LdmNet on startup b oldest ones use the current registered LdmNet, which may have been replaced.

LdmNetManager is a tool from which the current version of LdmNet can be easily changed.

an LdmNet Fil	es	
Custom sca	n 🛛 Quick scan 📝 Ask fo	or confirmation before register or unregister LdmNet
Date	Folder	Description
06/08/2012	C:\Program Files\Mirion\DMC User\Clien	nt LdmNetCtl 3.1.0 without values control - Mirion Technologie
05/22/2012	C:\Program FilesWirion\DosiFactory	LdmNetCtl 3.0.51.8 Factory without values control - Mirion Te.
05/03/2012	C:\Windows\System32	LdmNetCtl 3.0.51.0 - Mirion Technologies
Register		
gistred LdmN(	et	
Unregister	Current registred LdmNet: C:\Pr	rogram Files\MIRION\DMC User\Client\LdmNetCtl.dll NetCtl 3.1.0 without values control - Mirion Technologies

### **Current LdmNet**

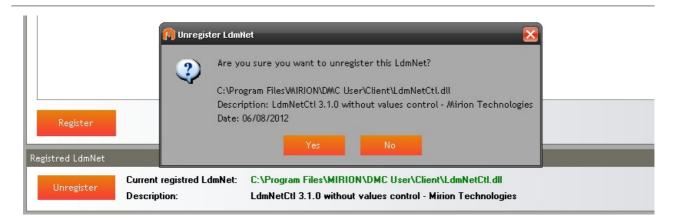
In the botton part of the screen, the "Registered LdmNet" shows the current registered version of the LdmNet.

Registred LdmNet		
Unregister	Current registred LdmNet: Description:	None
Registred LdmNet		
Unregister	Current registred LdmNet: Description:	C:\Program Files\Mirion\DMC User\Client\LdmNetCtLdll LdmNetCtl 3.1.0 without values control - Mirion Technologies

#### **Unregistering the current LdmNet**

Click the "Unregister" button to unregister the current LdmNet.

If the checkbox "Ask for confirmation before register or unregister LdmNet" has been checked, a confirmation popup will be displayed



#### After confirmation, t he LdmNet is unregistered :

C	Unregistering LdmNet. Please wait	
Registred LdmNet		
Unregister	Current registred LdmNet: None Description:	

#### Scanning and finding available versions

The grid at the upper part of the screen shows the different version of LdmNet available on the computer.

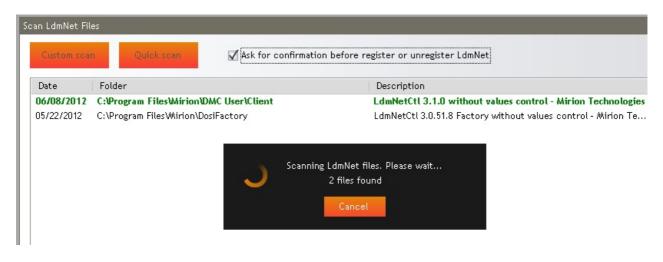
Click the "Custom scan" button to search the files through a selection a sélection of drives of the system, this may take a very long time A popup appears, choose the drives to scan and click "Scan".

Custom so	an	Quick scan	Ask for confirmation	n before register or unregister LdmNet
[	🗌 H:\	S:\		Description
0: 🗹 D:\	🗖 I:V	🗖 T:\	n\DMC User\Client	LdmNetCtl 3.1.0 without values control - Mirion Technologie
0! 🗖 E:\	/:L	🗖 U:\	\DosiFactory	LdmNetCtl 3.0.51.8 Factory without values control - Mirion Te
0!	L:V	🗖 W:\		LdmNetCtl 3.0.51.0 - Mirion Technologies
🗖 G:\	N:V	🗖 Z:\		

Click the "Quick scan" button to search the files on a pre-selection of directories :

- Usual Mirion softwares installation folders,

- Windows System32 directory.



During the process, click "Cancel" to stop the scan. The list of available LdmNet versions is displayed.

### **Registering another LdmNet**

To register another version of LdmNet, choose one in the list of the available versions and click the "Register" button.

If the checkbox "Ask for confirmation before register or unregister LdmNet" has been checked, a confirmation popup will be displayed

Date	Folder	Description	
06/08/2012	C:\Program Files\Wi		ut values control - Mirion Technologie
05/22/2012	C:\Program Files\Wi		ory without values control - Mirion Te
05/03/2012	C:\Windows\System		ion Technologies

#### After confirmation, the chosen LdmNet is registered :

Registred LdmNet Current registred LdmNet: C:\Program Files\Mirion\DMC User\Client\LdmNetCtl.dll					
Unregister	Current registred LdmNet: Description:	C:\Program Files\Mirion\DMC User\Client\LdmNetCtl.dll LdmNetCtl 3.1.0 without values control - Mirion Technologies			

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