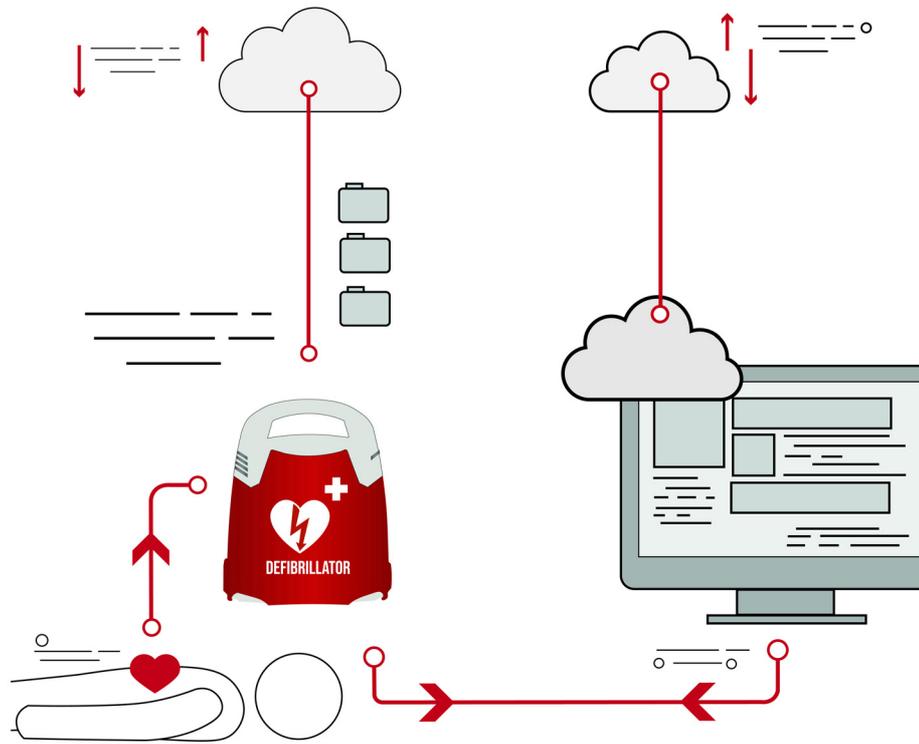
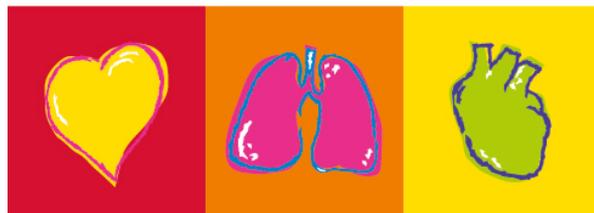


LifeDataNet G2[®]

SCHILLER device Management System



User guide



SCHILLER
The Art of Saving Lives



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1 Safety Information

1.1 Owner Responsibility



- ▲ These instructions for use are an integral part of the software and must be kept in its vicinity. The strict observation of these instructions for use is a necessary condition to guarantee the proper operation and the correct use of the software.
- ▲ These instructions for use must also inform the user about the normal use, the operation and how to operate the software.
- ▲ Ensure that users have read and understood this user guide. In particular this section "1 Safety Information" must be read and understood.

1.2 Intended Use



- ▲ **LifeDataNet G2** is used for the remote management (monitoring, setting, updating, etc.) of Schiller devices.
- ▲ Any use not described in this user manual is deemed to be non compliant and is not authorised.

1.3 Organisational Measures



Hold this user manual and any assistance documentation at hand at the place of use of the software. Make sure any documentation are always complete and legible.

1.4 Networks and Internet



- ▲ SCHILLER cannot be held liable for the configuration of the system on the computer used to view the data.
- ▲ SCHILLER waives any responsibility concerning the network infrastructure implemented for the system.
- ▲ The security of patient data fall under the sole responsibility of the user.

1.5 Responsibility

The manufacturer can only be held responsible for the safety, reliability, and performance of the software, and assume, if:

- the system is used on a safe network,
- modifications and updates are carried out, in accordance with the recommendations, by persons authorised by SCHILLER.

SCHILLER waives any responsibility concerning the safety, the reliability and the characteristics of the software if:

- The installation, the extensions, the settings, the configurations were not performed by Schiller or authorised people.
- The software is not used according to instructions for use.

1.6 Symbols

1.6.1 Symbols used in this user guide

The following overview presents the safety symbols and pictograms used in this user guide.



For notes regarding software use and other helpful information.



Reference to other documentation.

2 General information

2.1 LifeDataNet G2

LifeDataNet G2 is a hosted solution that allows centralising (on a dedicated server) and analysing the data transmitted (events recorded during interventions) by the Schiller defibrillators.

The hosting provider is ISO 27001 compliant and authorised for medical data hosting and the server is installed in a secured data centre.

The devices transmit their data remotely and securely, via cellular network. Through this connectivity, **LifeDataNet G2** allows managing all the device fleet.

Moreover, **LifeDataNet G2** allows to update the devices settings and software.

2.1.1 Possible operations with LifeDataNet G2

- presenting, simply and legibly an overview of the device fleet (device and consumables status)
- generating an intervention report in PDF format.
- updating remotely the configuration of the device,
- viewing the status of the device
- receiving an alert by email
 - a battery is almost empty
 - a battery is empty
 - pads are almost expired
 - pads are expired
 - error during device's self-test
 - the device didn't connect in an expected time laps
 - the device is re-connected
 - a maintenance is advised
 - a maintenance is required
 - device in use / device cover is opened
- updating remotely the Software of the device
- Updating the device ID
- Create and manage LifeDataNet users

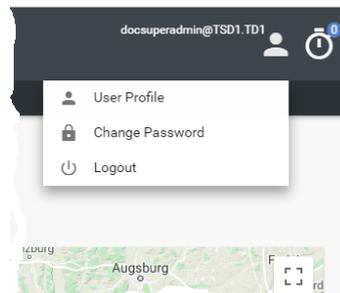
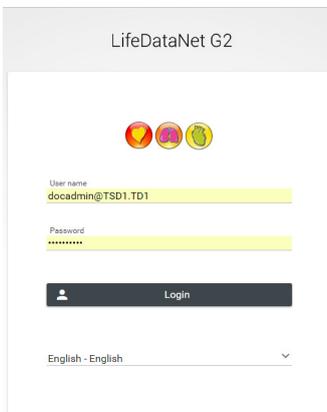
3 Operation

3.1 Access to LifeDataNet G2 server

Only authorised users can access to LifeDataNet G2. Users are created by the Administrator. The user will receive an email with the following connection information.

URL: [xxxxxx](#)
Domain: xxx
Subdomain: xxxxx
Login: xxxxx@subdomain.domain
Password: xxxxxxxxxx

1. Click on the link (URL) in your email.
2. Select desired interface language.
3. Enter the Login name and the password.
4. The application start with the dashboard view.
5. SCHILLER strongly recommends to immediately change the password:



3.2 User rights

The following table shows the different user rights within the LifeDataNet G2.

Access → User ↓	Device management	Domain management	User management	Update management	Task	Setting	Responsibility
Admin	Devices Maintenance	Nodes	New Delete Reset Password	Device Setting set Device Settings	New Edit Delete	-	Customer
Manager	Devices	-	-	-	-	-	Customer

Admin

- Device management** devices, maintenances
- Domain management** create nodes for update tasks or deleting nodes
- User management** create or delete users, reset password
- Update management** create/delete configuration, configuration update, software update, ID update, log request

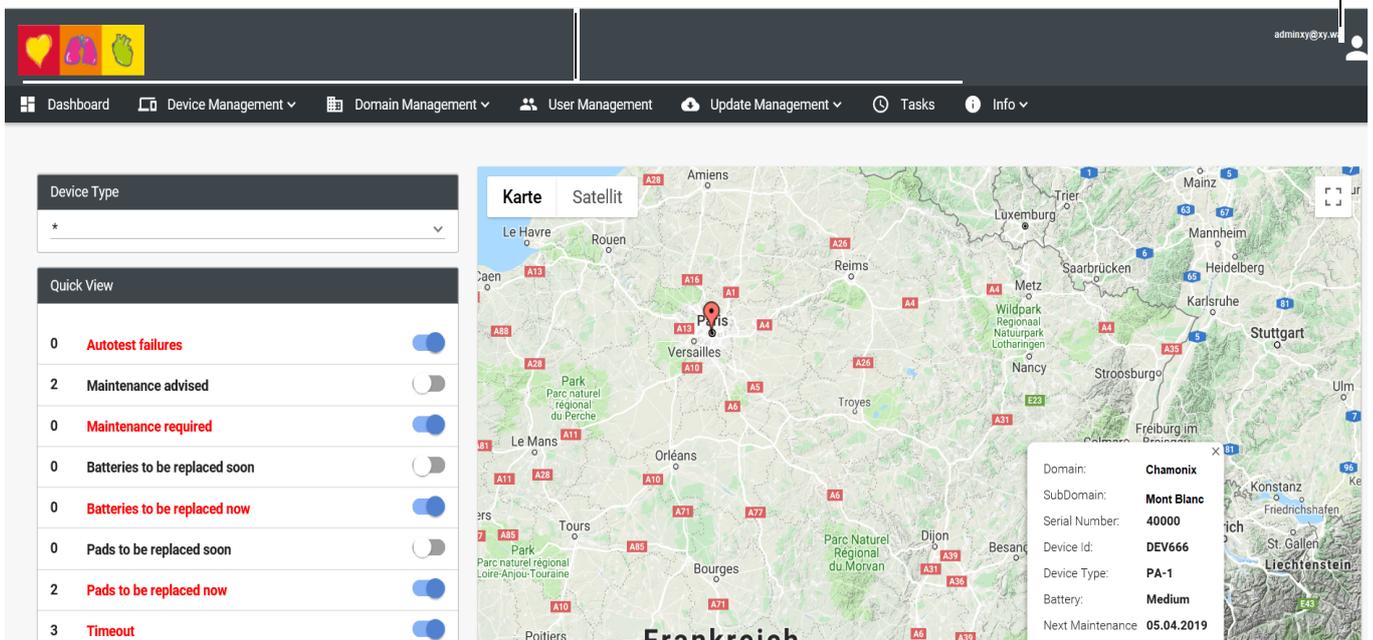
Manager

- Device management** devices

The following screen cut shows the access for the Admin.

Menu

Access to menu user profile, Password, Logout



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The following description shows the screen with the rights of the "Admin" and Manager. Refer to the list above to verify what rights you have for your login.

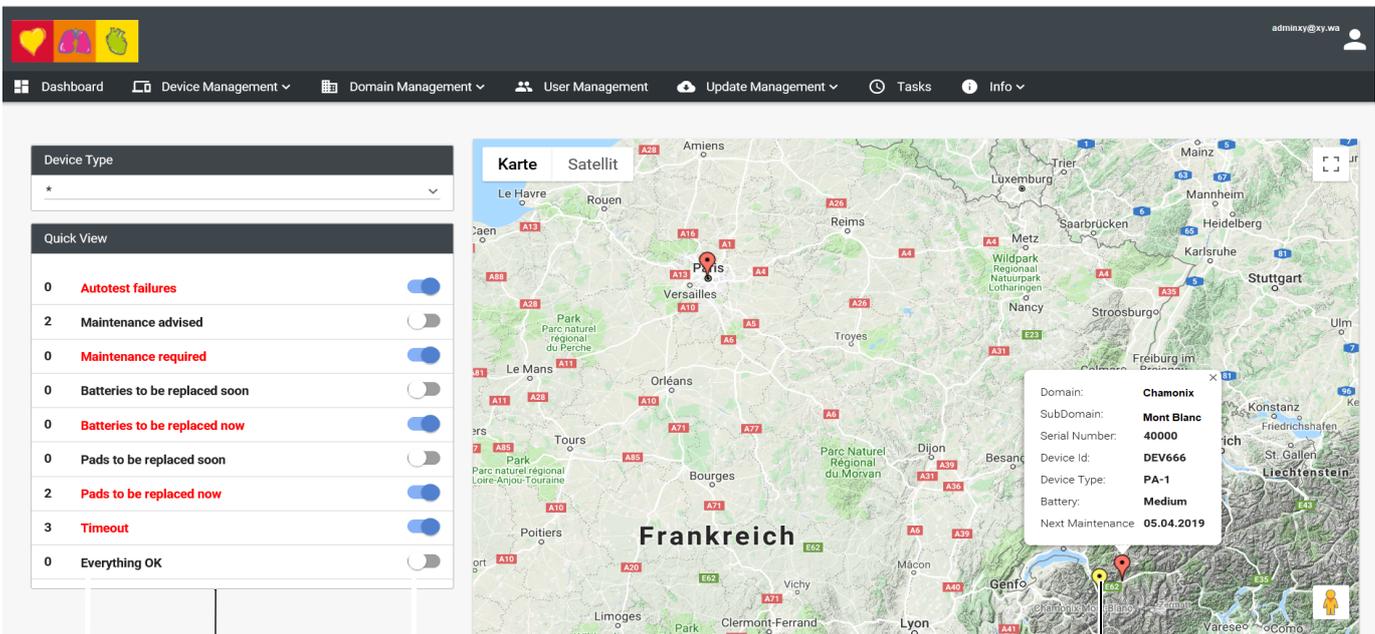
4 Functionality overview

The following chapter describes the functionality of the different menus.

4.1 Dashboard

The dashboard gives an overview of all your devices including the location on a map if previously provided via the device management (see 4.2.1).

Quick View Status Overview of all devices and display of the positions of the devices on the map. By switching on / off the individual status it is defined which status should be displayed on the map.



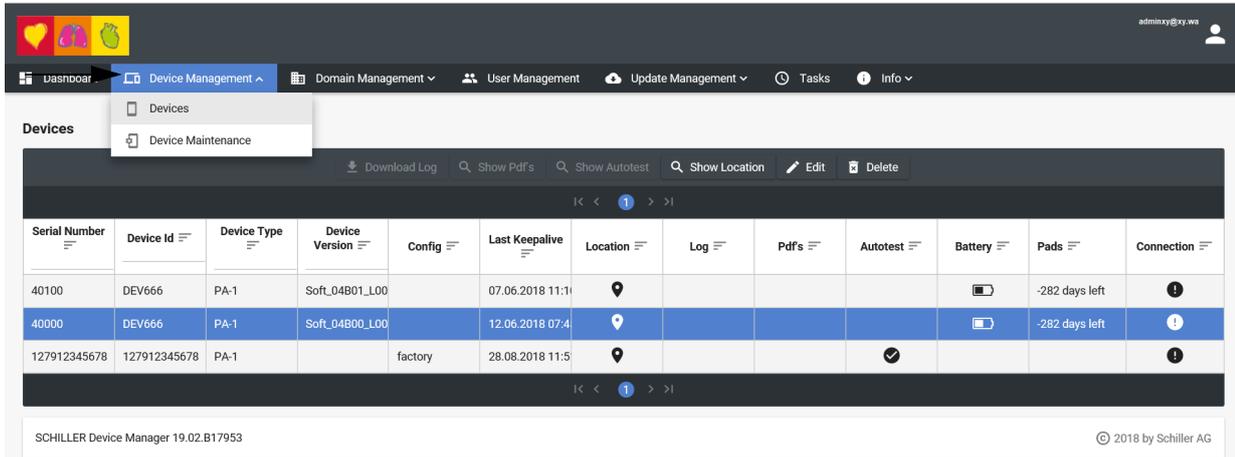
Status selection zone

Location of the AED's according to the selected status left

4.2 Device management

4.2.1 Devices

The device appears on the list after the first connection.



The following actions can be done on the selected device (the selected device is highlighted in blue):

- Delete** Delete function is used when a device needs to be definitely replaced.
- Edit** This function is used to enter the location of the device.
 1. Select **Edit** and enter the exact address of the location of the device.
 2. Click on **Lookup** and when location is found click on **Save**.
 The device appears now exactly on the entered location on the map.
- Show Location** Shows the entered location on the map
- Show Autotest** This function will show the detailed result of the last device self test. This test result can be printed out.
- Show Pdf's** If the device has been used for an intervention on a patient, this function will display a list of intervention files (pdf) sorted by date and time that can individually be downloaded. Interventions reports are visible 10 minutes after the device cover has been closed.
- Download log** Downloads the transmitted Log file on your computer. To be able to download the log file an upload log task (see 4.6 Tasks) has first to be performed. Log file will be available after the self test following the log upload task.

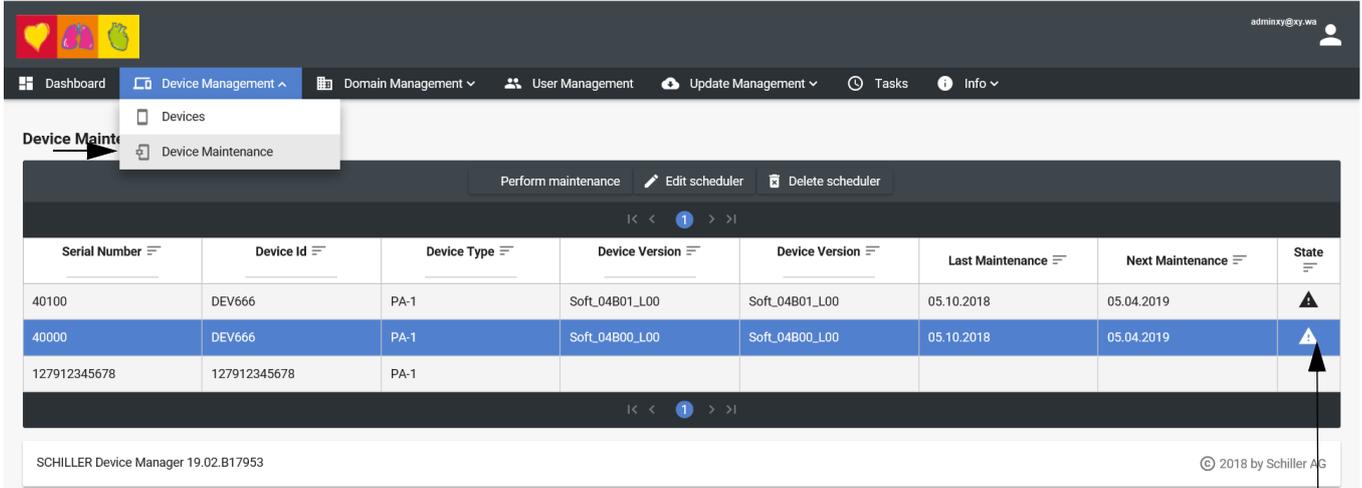
In the device management table following information are available for each device:

- Serial number
- Device ID (can be changed via an update device ID task, see 4.6 Tasks)
- Device type
- Device version: corresponds to the software version installed on the device
- Config: name of the configuration installed on the device
- Last keepalive: last connection of the device

- Location icon is present if a location has been entered
- Log icon is present if a log file is available for download
- PDF icon is present if an intervention file is available for download
- Autotest icon that indicates the status of the last self-test
- Battery icon that indicates the battery level (high/medium/low)
- Pads indicates the remaining life time of the pads in days (if adequate pads are connected to the device).
- Connection icon that indicates if the device did connect or not

4.2.2 Devices Maintenance

The maintenance menu is for scheduling maintenance.



Device is in maintenance status

The following actions can be done on the selected device (the selected device is highlighted in blue):

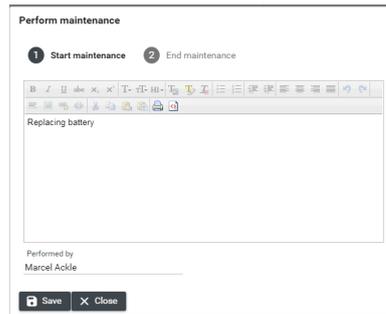
Scheduling maintenance

1. Choose "Edit scheduler".
2. Enter last maintenance date and interval for next maintenance.
3. Save changes.

Performing maintenance

An email notification will be sent when maintenance has to be performed.

1. Select device.
2. Choose "Perform maintenance" (only possible when the maintenance is scheduled)
3. Enter the reason for maintenance in the pop up window and save the entries.



4. When maintenance is finalised choose again "Perform maintenance" to put the device back to duty.

4.3 Domain management

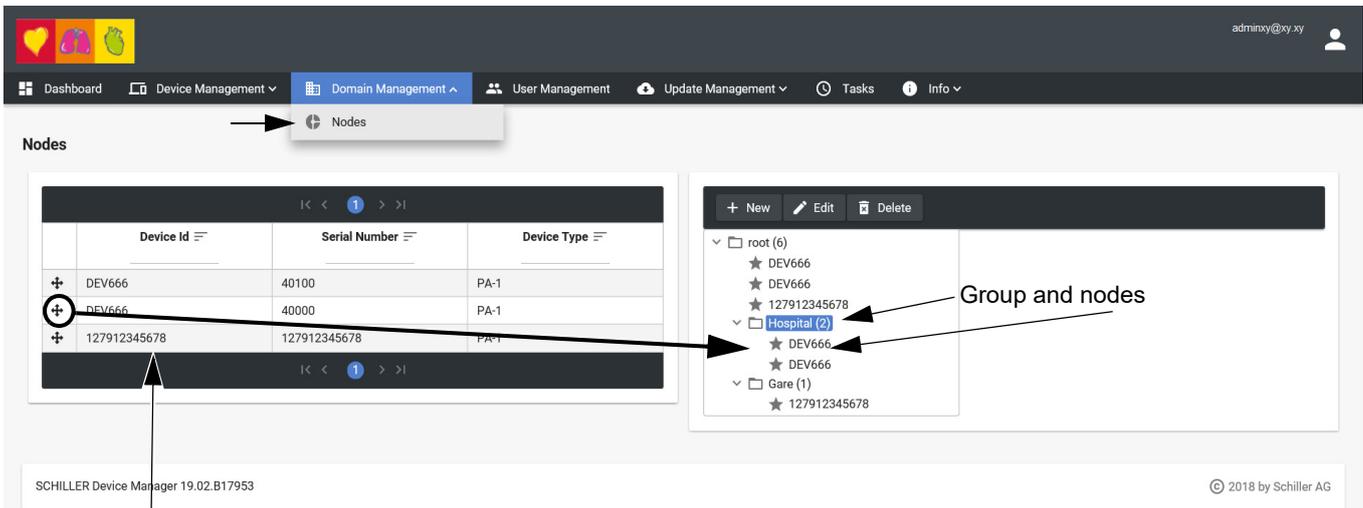
Admin user has the right to add new, editing or deleting groups or nodes

Domain	SubDomain	Nodes
Chamonix	Mont Blanc	Hospital (2) -DEV 666 -DEV 666 Gare (1) - 127911234567

4.3.1 Nodes

The Nodes/Groups are used to apply an update task (see [4.6 Tasks](#)) to a part of your device fleet.

1. Select "New" to add nodes.
2. Drag and drop the desired device to the desired node.



Display of all assigned devices

3. Save the entries.

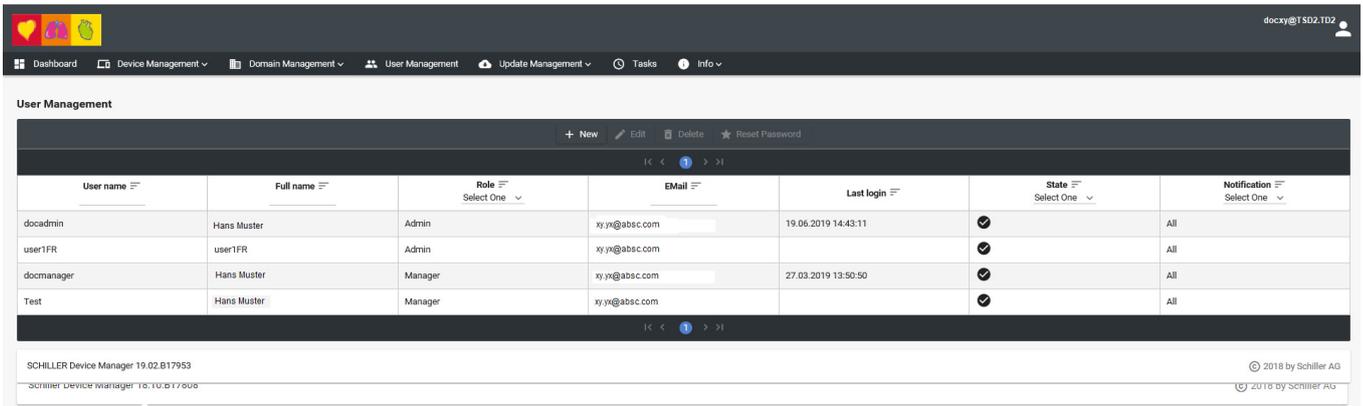
4.4 User management

The user management menu is for:

- Add new user
- Delete user
- Edit user
- Reset password

New user

1. Select "New" to enter the user data
2. Save entries.



State Enable, disabled or locked

Notification Users can receive several notification levels:

- Use
 - notification when the device is in use (device cover is opened)
- Technical
 - battery is almost empty
 - battery is empty
 - pads are almost expired
 - pads are expired
 - there is in issue with the device
 - the device didn't connect in an expected
- All
 - all notifications
- None
 - no notifications

4.5 Update management

The update management menu is for:

Device Settingset

- Upload new device settings template to server
- Download device settings file from the server to your computer
- Create a copy of an existing device settings template

Device Setting

- Editing device settings templates.

4.5.1 Device Settingset

1. Select device type and device version
2. Select an existing device settings template
3. Create a copy of an existing settings template or edit it.
4. Edit file name, description and select the state (Active/Inactive).
5. Save entries.

The screenshot shows the 'Device Settingsets' section of the SCHILLER Device Manager. At the top, there are two dropdown menus for 'Device Type' (set to 'PA-1') and 'Device Version' (set to 'Soft_04B01_L00'). Below these are action buttons: Edit, Delete, Copy, Download, and Upload. A table displays the following data:

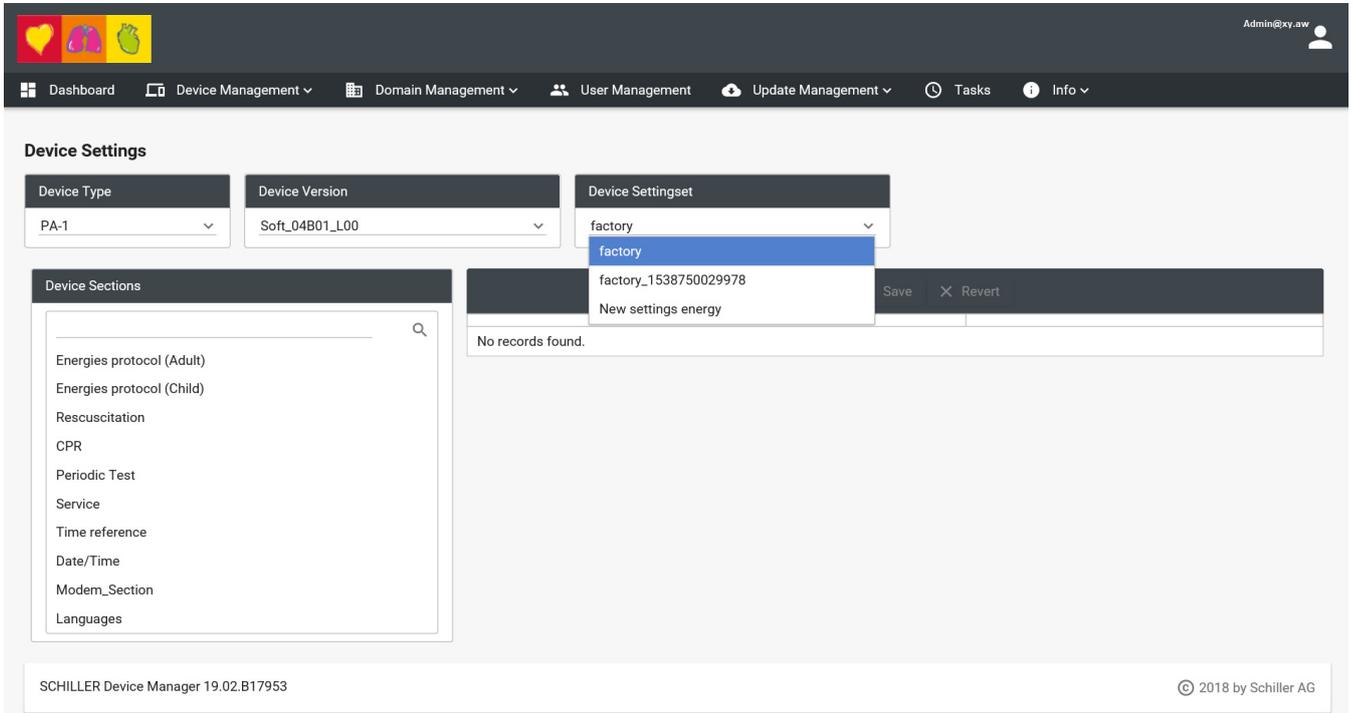
Name	Description	State
factory	Factory Settings	✓
factory_1538750029978	Factory Settings	✓
New settings energy	Factory Settings	✓

At the bottom of the interface, it shows 'SCHILLER Device Manager 19.02.B17953' and '© 2018 by Schiller AG'.

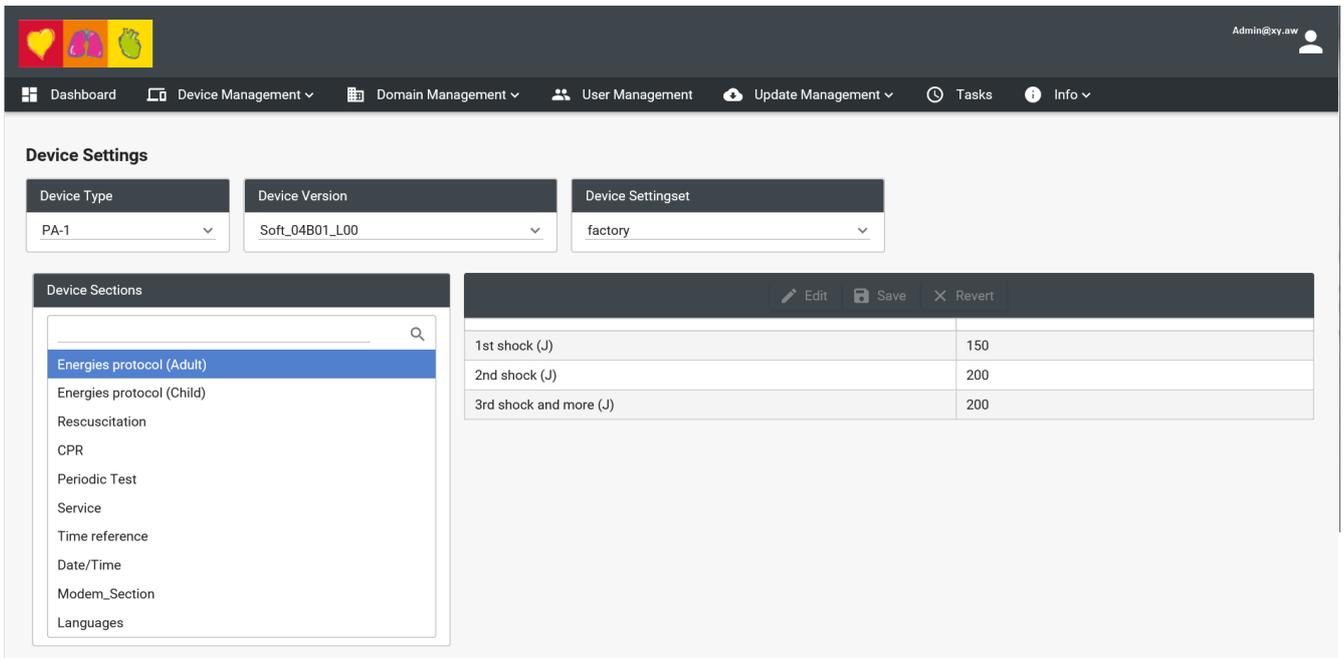
6. Go to Device setting

4.5.2 Device Setting

1. Select Device Type and the "Device Settingset" generated above.



2. Select a Device Section and Edit it to change the settings.
3. Save setting.



Art. no.: 0-48-0354 Rev.: a

Overview Device sections settings

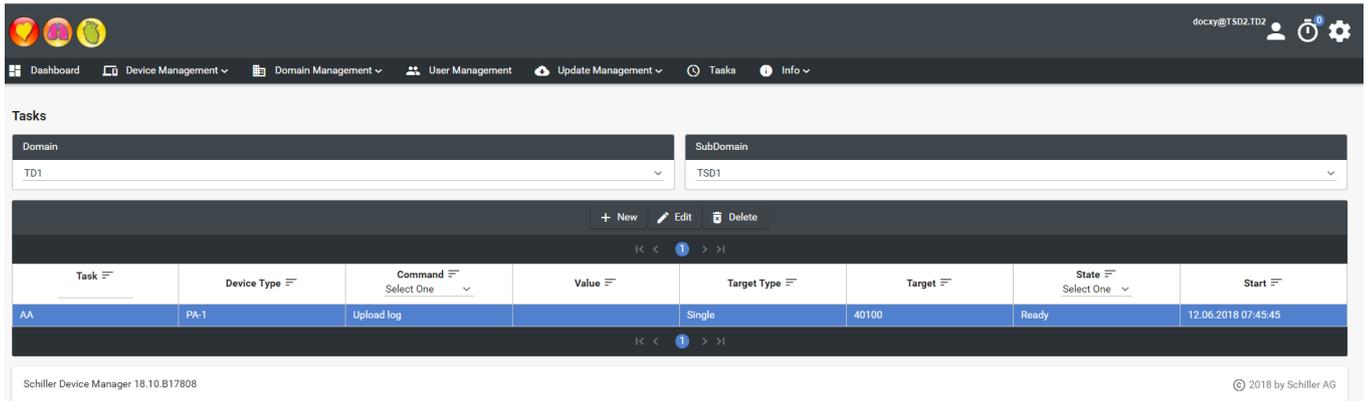
Device sections	Settings	Value
Energies protocol (Adult)	1st shock (J)	150
	2nd shock (J)	200
	3rd shock and more (J)	200
Energies protocol (Child)	1st shock (J)	50
	2nd shock (J)	50
	3rd shock and more (J)	50
Resuscitation	Notch filtering	Off
	16.7Hz filtering (y/N)	no/yes
	Shortened instructions (y/N)	no/yes
	Volume	3
CPR	N/A for PA-1	
Periodic test	Frequency	8
	Temperature test	Yes/no
	Sound alarm on T°	Yes/no
	Temperature measurement frequency (1h... 24h)	8
	Alarm on Schiller electrodes absence	Yes/no
Service	Frequency (Years)	6
Time reference	Time Zone	(UTC+01:00) Paris
	Daylight saving time (Y/n)	Yes
Date/Time	Clock update (y/N)	Yes/no
	Day (1... 31)	1
	Month (1... 12)	1
	Year (2015...2999)	2018
	Hour (0... 23)	0
	Minute (0... 59)	0
Network	apn_name	m2m.tele2.com
	port	443
	url_server	www.lifedatanet.net
	Number of GSM connection extra attempt	0/1/2/3
	Note: Modem settings shall not be changed for the device provided with SCHILLER SIM card, otherwise the AED might no longer be able to connect to the system	
Language	Language update	Yes/no
	Installed language	English (ENG)
	Language at start (if the language option is installed)	First

4.6 Tasks

The tasks menu is for:

- Scheduling tasks like:
 - upload log
 - update software
 - Update configuration
 - Update device ID

1. Select "New" to add new Task.



2. Name the task
3. Select device type
4. Select the type of task
5. Select the target: single or group (see [4.3.1 Nodes](#))
6. Select the file to use or enter device ID
7. Select start date.
Note: the task will be performed at the next self-test after the selected date
8. Save

4.6.1 New device installation

When a new device enters the device fleet it is recommended to

1. Enter a device ID (see [4.6 Tasks](#)) a task -> device ID)
2. Enter the device location (see [4.2.1 Devices](#))
3. If necessary prepare and or apply a new customized configuration (see [4.5 Update management](#))
4. In order to apply the changes immediately do a battery insertion, the device does a self-test and connects to the server to get the new data.
5. Check on the dashboard (see [4.1 Dashboard](#)) and / or device management (see [4.2 Device management](#)) that the changes have been applied.