

Smart Central

USER MANUAL

Revision 1.0

2019-06-11

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1. Digistat Smart Central

1.1 Information for the user

Please read carefully the following warnings.



The purpose of the system is to help with alarm management and shall not be used as a remote alarm system or as an alarm replicator.



Digistat Smart Central must not be used to replace the monitoring of the device alarms.



Up to a distance of 1m (3,28 ft) the Operator is able to read the notifications on Digistat Smart Central. Within a maximum distance of 4m (13,12 ft) it is possible for the Operator to see that there is an alarm.

This is true if:

- the Operator has a visual acuity of 0 on the logMAR scale or 6-6 (20/20) vision (corrected if necessary),
- the viewpoint is at the Operator's position or at any point within the base of a cone subtended by an angle of 30° to the axis horizontal to or normal to the center of the plane of display of the monitoring display or visual indication,
- the ambient illuminance in the range of 100 lx to 1 500 lx.



If the generic Alaris[®] Driver is in use it is necessary to wait at least ten seconds after disconnecting an infusion pump before connecting another.



Check that the medical devices are correctly connected by verifying that their data are displayed on the Smart Central.



Use the sound check procedure to verify if the audio on the workstation/handheld device is correctly working (see related paragraph for the procedure).



On the connected medical device where it is possible, generate an artificial alarm condition to verify that the corresponding alarm notification is correctly displayed on the Smart Central (it is suggested to perform this check at least once per shift).



Digistat Smart Central acquires the information generated by the primary medical devices and display them. Therefore, Digistat Smart Central always reports what the primary medical devices communicate. The assignment of alarm priorities is decided according on the primary medical device. On Digistat Smart Central it is possible to decide the order of the medical devices, for every bed, in accordance to the customer preference: per device type, model / manufacturer. This kind of ordering is setup in Digistat Smart Central during deployment of the product according to the user request/preference. The color of every bed card (i.e. "bed area") is always the color of the highest priority alarm among all alarms occurring on that bed.

1.2 Module selection

To select the Digistat Smart Central module:

> Click the corresponding icon on the lateral bar (Fig 1)



The Smart Central screen, shown in Fig 2, opens.

1

In some Digistat configurations, the Smart Central module is the only one available and is automatically selected after user log in.

1.3 Digistat Smart Central functionality

The Smart Central screen displays a schematic representation overview of the situation of each patient in the ward (Fig 2).

1 🕛 Antonio, Bando	2 🔗 Patient 2, Jim	3 🔗 Patient 3, Joe
(R S	6
	(i) Pump 2: Next EOI: 0h13m	(i) Pump 3: Next EOI: 1h20m
4 🔗 Patient 4, Rose	5 🔗 Patient 5, Ellen	6 🔗 Patient 6, Bill
G	G	G
(i) Pump 1: Next EOI: 0h55m	(i) Pump 2: Next EOI: 2h01m	(i) Pump 3: Next EOI: 1h05m
SMART CENTRAL	V 🔋 Legend 🕑 🗸	Values

Fig 2

The screen is divided into rectangular areas, named "Bed areas" (Fig 2 **A**). Every area refers to a bed and displays information on the devices connected to the patient admitted to that bed. By default, only the data referring to alarmed beds is displayed (Fig 4), and only data relating to alarms is displayed. A bed is alarmed if at least one of the devices connected to the bed is alarmed. If multiple alarms occur at the same time on the same bed, the alarm with the highest priority is notified.

It is possible to display all the available data (both referring to the non-alarmed beds and referring to the non-alarmed devices on the alarmed beds) by clicking the "VALUES" button on the command bar (Fig 2 **B**).

To display all the available data:

Click the **Values** button on the command bar (Fig 2 **B**)

The button will be selected. The available information will be displayed as in Fig 3.

1 🕛 Antonio, Bando	2 🔗 Patient 2, Jim	3 🔗 Patient 3, Joe
	AGW P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min	AGW P1:Amiodaron 10 ng/mL/min P2:Noradrenaline 14 ng/mL/min P3: P4:Frusemide 12 ng/mL/min
		More devices
	More devices	
	(i) Pump 2: Next EOI: 0h13m	(i) Pump 3: Next EOI: 1h20m
4 🔗 Patient 4, Rose	5 🔗 Patient 5, Ellen	6 🔗 Patient 6, Bill
AC111	AGW.	AGW
 AGW P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min 	P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min	P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min
 ✔ AGW P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min ✓ CARESCAPE HR ECG: 76 bpm NBP: 117/61 (89) mm Hg 	P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min -₩ CARESCAPE HR ECG: 77 bpm NBP: 126/67 (96) mm Hg >>>	P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min →→ CARESCAPE HR ECG: 71 bpm NBP: 128/62 (95) mm Hg >>>
 ✓ AGW P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min ✓ CARESCAPE HR ECG: 76 bpm NBP: 117/61 (89) mm Hg >>> ✓ More devices 	P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min -₩ CARESCAPE HR ECG: 77 bpm NBP: 126/67 (96) mm Hg >>> Image: More devices	P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min → CARESCAPE HR ECG: 71 bpm NBP: 128/62 (95) mm Hg >>>
 AGW P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min ✓ CARESCAPE HR ECG: 76 bpm NBP: 117/61 (89) mm Hg >>> More devices Pump 1: Next EOI: 0h55m 	 P1: Amiodaron 10 ng/mL/min P1: Amiodaron 10 ng/mL/min P3: P4: Frusemide 12 ng/mL/min → CARESCAPE HR ECG: 77 bpm NBP: 126/67 (96) mm Hg >>> More devices Pump 2: Next EOI: 2h01m 	P1: Amiodaron 10 ng/mL/min P2: Noradrenaline 14 ng/mL/min P3: P4: Frusemide 12 ng/mL/min →→ CARESCAPE HR ECG: 71 bpm NBP: 128/62 (95) mm Hg >>> More devices Pump 3: Next EOI: 1h05m

Fig 3

1.4 Bed areas

Each "Bed area" displays some of the data provided by the devices connected to the patient (Fig 4). The kind of data displayed depends on the design and configuration of the device.

If the "Bed area" is light blue, as in Fig 4, it means that there is at least one low priority alarm, and no medium and/or high priority alarms, coming from the connected devices.



If the "Bed area" is yellow, as in Fig 5, it means that there is at least one medium priority alarm, and no high priority alarms, coming from the connected devices.



If the "Bed area" is red, as in Fig 6, it means that at least one of the connected devices is in high priority alarm state.



Fig 6

The connected beds from which no alarms are received appear as in Fig 7. No device data is displayed as this might distract the reading of possible alarms occurring on the other beds.

2 6	^{>} Patient 2, Jim
	S
	0
Ú	Pump 2: Next EOI: 0h13m
Fia 7	

To display device data on these devices "pump" click the **Values** button on the command bar (Fig 2 **B**). The "Bed area" will appear as in Fig 8.

2 (🔗 Patient 2, Jim
	AGW
	P1:Amiodaron 10 ng/mL/min
	P2:Noradrenaline 14 ng/mL/min
	P3:
	P4:Frusemide 12 ng/mL/min
	CARESCAPE
	HR ECG: 72 bpm
	NBP: 104/71 (87) mm Hg >>>
•••	More devices
(\mathbf{i})	Pump 2: Next EOI: 0h13m
Fig 8	8

Disconnected beds are displayed as in Fig 9.

1 (^I) Antonio, Bando
1 C Antonio, Bando
Fig 9

1.4.1 Bed area description

This section provides a detailed description of the way information is displayed on every "Bed area". On top of the "Bed area" the bed number and the patient name are displayed (Fig 10). The *e* icon means that the bed is connected to Smart Central and that Smart Central is currently receiving device data from the bed. If one of the devices connected to the bed is notifying a low priority alarm the **1** icon is displayed instead.

If one of the devices connected to the bed is notifying a medium priority alarm the \mathbf{A} icon is displayed instead. If one of the devices connected to the bed is notifying a high

priority alarm the 📥 icon is displayed instead.

2	8	Patient 2, Jim

Fig 10

The information in the bed area is divided by "Device type". Each device type is characterized by a specific icon (Fig 11 **A**).



A legend is available showing which device type a specific icon refers to.

To display the legend:

Click the Legend button on the command bar. See paragraph 1.5.1 for a detailed description

Data coming from the same kind of devices are grouped together. In Fig 12, for instance, two groups are indicated: infusion pumps and patient monitor.



It is possible that not all the data coming from the devices is displayed in the box. If there is hidden data the >>> signal is displayed at the end of every group (see Fig 13 **A**).



Hidden data can be displayed by clicking the "Bed area", which is enlarged to fullscreen mode (Fig 14). All the available information is displayed.

	AGW P1: Amiodaron 10 ng/mL/min , 20 mL/h , 10 mcg/mL , 00:21:00 minutes P2: Noradrenaline 14 ng/mL/min , 23 mL/h , 15 mcg/mL , 00:20:00 minutes P3: ,45 mL/h , ,00:21:00 minutes P4: Frusemide 12 ng/mL/min ,22 mL/h ,4 mcg/mL , 00:20:00 minutes
-//	CARESCAPE HR ECG: 70 bpm NBP: 125/62 (93) mm Hg SPO2 Art: 80 % LOW
ei3	Evita HR: 64 bpm RR: 16 bpm PEEP: 5 mm Hg PSF: 6 mL/s PI mean: 5 mbar PLT: 5 mbar FiO2: 32 % VTe: 324 mL MVe: 5184 L/min
í	Pump 2: Next EOI: 0h23m

Additional information about the connected devices and the list of the possible disconnected devices are displayed at the bottom of the "Bed area" (Fig 15 **A**). Disconnected devices are indicated by the $\overset{\sim}{\sim}$ icon. Additional information is indicated by the ⁽¹⁾ icon.



It is possible, by configuration, to associate messages to the displayed values. For instance it is possible to define a range of values that are "normal" and configure the system to inform the user if the collected values are outside this range. See for instance Fig 16 **A**, in which the values are defined as "Low".

5 d	Patient 5, Ellen Female 29 y MRN: 20000005 AGW - Carefusion P1: Amiodaron 10 ng/mL/min , 20 mL/h , 10 mcg/mL , 00:21:00 P2: Noradrenaline 14 ng/mL/min , 23 mL/h , 15 mcg/mL , 00:20:00 minutes P3: ,45 mL/h , 00:21:00 minutes P4: Frusemide 12 ng/mL/min , 22 mL/h , 4 mcg/mL , 00:21:00 minutes
-//-	650 - GE HR ECG: 63 bpn AP: 124/89 (106) - Hre SPO2 Art: 82 % LOW
Eið	Evita XL - Draeger HR ECG: 66 bpm RR: 25 bpm HIGH PEEP: 9 mm Hg PSF: 8 mL/s PI mean: 8 mbar PLT: 8 mbar FiO2 Art: 66 % VTe: 435 mL MVe: 10875 L/min
(i)	Pump 3: Next EOI: 1h20m



A visual feature on the upper bar on each "Bed area" keeps temporarily track of the last alarm notification provided after the "Bed area" has changed to a different priority alarm (or no alarm). This makes it possible to be aware of alarms occurring and rapidly passing (Fig 17).



Fig 17

1.5 The Smart Central command bar

The buttons on the command bar of the Smart Central make it possible to perform different actions.



The arrow buttons (Fig 18 **A**) make it possible to scroll up and down the screen when it is not possible to display all the configured "Bed areas" at the same time.

When one (at least) of the non-displayed "Bed areas" is notifying an alarm, the corresponding button takes the color corresponding to the alarm priority level (blue = low; yellow = medium; red = high).

In case of multiple alarms the arrow color corresponds to the highest priority notified.

An icon can be displayed in the box between the arrow buttons (Fig 19). It indicates that there is an alarm on one of the "Bed areas" currently displayed.





The **Legend** button displays a window with the meaning of all the different icons that can be found while using the software (See paragraph 1.5.1).

The **Values** button displays all the available data (both referring to the non-alarmed beds and referring to the non-alarmed devices on the alarmed beds).

The **ICU** button contains an acronym indicating the ward currently displayed. If the system is configured to cover more than one ward, the button can be clicked to open a menu displaying all the configured wards.

1.5.1 Legend

The **Legend** button opens a window explaining the meaning of all the different icons that can be found while using the software.

To display the "Legend":

Click the Legend button

The following window is displayed (Fig 20).

	A	
Legend		\times
GENERAL	DEVICES	
۴	High priority alarm	
A	Medium priority alarm	
0	Low priority alarm	
(\mathbf{i})	Additional Informations	
Ĩ	Device not connected	
8	Bed connected with no alarms	
\bigcirc	Bed in stand-by	
•••	More connected devices	
	× CLOSE	

Fig 20

The window lists the "General" icons that can appear in different contexts. Another list of icons, those indicating the connected devices, can be displayed by clicking the "DEVICES" button indicated in Fig 20 A.

To see the "Devices":

> Click the **Devices** button indicated in Fig 20 A

The "Devices" legend is this way displayed (Fig 21)





On this window all the possible icons are listed. Alongside the icon the device name is specified, with the corresponding abbreviation / acronym (e.g. INF refers to infusion pumps, MON to patient monitors and so on).

1.6 Events list

It is possible to display a detailed list of all the events occurred for a patient.

To display the events list:

Click the "Bed area" referring to the bed to be displayed (Fig 22)



The events list will be displayed on the right (Fig 23).



Fig 23



The vertical bar indicated in Fig 23 delimiting the Events area, can be dragged left/right to resize the area.

1.6.1 Events list description

The table shown in Fig 24 contains the list of all the events occurred on all the devices connected to the selected patient during their stay.





The time period to which the events list refers can be selected using the "**Range**" filters (Fig 24 **A**).

The "**Event**" buttons indicated in Fig 24 **B** are also filters making it possible to display only certain types of events. The **All** button, selected by default, displays all the events occurred in the selected time period. The ^① button only displays the "Information" events; the ^① [△] buttons only display the low and medium priority alarms; the [▲] button only displays the high priority alarms. Multiple selections is possible to display two kinds of events at the same time (i.e. only low and medium priority alarms).

The "**Device**" buttons indicated in (Fig 24 **C**) are also filters making it possible to display only the events referring to a specific device. The **All** button, selected by default,

displays all the events occurred in the selected time period; the \checkmark button only displays the events referring to the infusion pumps; the \checkmark button only displays the events referring to patient monitors and so on... The full list of icons with their explanation can be found in the "**Legend**" window (see paragraph 1.5.1). Multiple selection is possible to display the events referring to two or more devices at the same time.

The **Print** button indicated in Fig 24 **D** makes it possible to print the list of events displayed (Fig 25).

Description Description Date of the second se
DEPARTMENT CHEE DR. CODE: 2000004 BIRTHDATE: 5/3/1992 DATE/TIME DEVICE # LEVEL DESCRIPTION 23/11/2017 02:52:17 MON I Heart Rate High 23/11/2017 02:05:17 MON I Heart Rate High 22/11/2017 10:20:35 MON III Heart Rate High 22/11/2017 10:10:20:55 MON III Heart Rate High 22/11/2017 10:10:20:5 MON III Heart Rate High 22/11/2017 10:10:23 INF 5 END OF INFUSION 22/11/2017 10:10:28 INF 5 III END OF INFUSION 22/11/2017 10:10:28 INF 5 II NEAR END OF INFUSION 22/11/2017 10:10:28 INF 5 II NEAR END OF INFUSION 22/11/2017 10:00:01 INF 5 II NEAR END OF INFUSION 22/11/2017 10:00:01 INF 3 X NEAR END OF INFUSION 22/11/2017 10:00:05 INF 3 II ND OF INFUSION 22/11/2017 10:00:05 INF 5 </th
PATIENT: Patient 4 Rose CODE: 2000004 BIRTHDATE: 5/3/1992 DATE/TIME DEVICE # LEVEL DESCRIPTION 23/11/2017 02:52:17 MON I Heart Rate High 22/11/2017 10:20:3 MON X Heart Rate High 22/11/2017 10:20:33 MON X Heart Rate High 22/11/2017 10:10:20:5 MON III Heart Rate High 22/11/2017 10:10:20:05 MON III Heart Rate High 22/11/2017 10:10:43 INF 5 X END OF INFUSION 22/11/2017 10:10:28 INF 5 III END OF INFUSION 22/11/2017 10:10:28 INF 5 III NEAR END OF INFUSION 22/11/2017 10:10:28 INF 5 II NEAR END OF INFUSION 22/11/2017 10:00:10 22/11/2017 10:00 22/11/2017 10:00 INF 3 X END OF INFUSION 22/11/2017 10:00:15 INF 3 X NEAR END OF INFUSION 22/11/2017 10:00:10 22/11/2017 10:00:10 22/11/2017 10:00:10 22/11/2017 10:00:10 22/11/2017 10:00:10 22/11/2017 10:00:10 22/11/2017 10:00:
DATE/TIME DEVICE # LEVEL DESCRIPTION 23/11/2017 D2:0:25:17 MON I Heart Rate High 22/11/2017 D0:20:25:17 MON X Heart Rate High 22/11/2017 D0:20:25:17 MON X Heart Rate High 22/11/2017 D0:20:05 MON III Heart Rate High 22/11/2017 10:10:44 MON I Heart Rate High 22/11/2017 10:10:43 INF 5 X END OF INFUSION 22/11/2017 10:10:28 INF 5 III END OF INFUSION 22/11/2017 10:10:28 INF 5 X NEAR END OF INFUSION 22/11/2017 10:10:28 INF 5 X NEAR END OF INFUSION 22/11/2017 10:10:28 INF 5 X END OF INFUSION 22/11/2017 10:00:00 INF 3 X END OF INFUSION 22/11/2017 10:00:00 INF 3 X NEAR END OF INFUSION
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22111/2017 10:20:33 MON X Heart Rate High 22111/2017 10:20:05 MON III Heart Rate High 22111/2017 10:19:44 MON I Heart Rate High 22111/2017 10:19:44 MON I Heart Rate High 22111/2017 10:10:28 INF 5 X END OF INFUSION 22111/2017 10:10:28 INF 5 HI END OF INFUSION 22111/2017 10:10:28 INF 5 N EAR END OF INFUSION 22111/2017 10:0:28 INF 5 N EAR END OF INFUSION 22111/2017 10:0:28 INF 5 II NEAR END OF INFUSION 22111/2017 10:0:9:15 INF 3 X END OF INFUSION 22111/2017 10:09:00 INF 3 X END OF INFUSION 22111/2017 10:09:00 INF 3 III END OF INFUSION 22111/2017 10:08:45 INF 3 II NEAR END OF INFUSION 22111/2017 10:06:51 INF 5 X END OF INFUSION 22111/2017 10:06:51
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2211/12017 10.19.44 MON I Heart Rate High 2211/12017 10.10.43 INF 5 X END OF INFUSION 2211/12017 10.10.28 INF 5 HI END OF INFUSION 2211/12017 10.10.28 INF 5 H END OF INFUSION 2211/12017 10.10.28 INF 5 X NEAR END OF INFUSION 2211/12017 10.10.13 INF 5 H NEAR END OF INFUSION 2211/12017 10.09.10 INF 3 X END OF INFUSION 2211/12017 10.09.00 INF 3 H NEAR END OF INFUSION 2211/12017 10.07.06 INF 5 X END OF INFUSION 2211/12017 10.06.51 INF 5 H NEAR END OF INFUSION 22111/2017 10.06.51 INF 5 H N
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22/11/2017 10:10:28 INF 5 X NEAR END OF INFUSION 22/11/2017 10:01:31 INF 5 IH NEAR END OF INFUSION 22/11/2017 10:09:15 INF 3 X END OF INFUSION 22/11/2017 10:09:10 INF 3 IH END OF INFUSION 22/11/2017 10:09:00 INF 3 IH END OF INFUSION 22/11/2017 10:09:45 INF 3 IH NEAR END OF INFUSION 22/11/2017 10:06:51 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 X NEAR END OF INFUSION 22/11/2017 10:06:51 INF 5 X NEAR END OF INFUSION 22/11/2017 10:06:51 INF 5 IH END OF INFUSION 22/11/2017 10:06:36 INF 5 IH END OF INFUSION
22111/2017 10:10:13 INF 5 II NER END OF INFUSION 22/11/2017 10:09:15 INF 3 X END OF INFUSION 22/11/2017 10:09:00 INF 3 III END OF INFUSION 22/11/2017 10:09:00 INF 3 X NEAR END OF INFUSION 22/11/2017 10:08:45 INF 3 II NEAR END OF INFUSION 22/11/2017 10:07:06 INF 5 X END OF INFUSION 22/11/2017 10:07:06 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:36 INF 5 III NEAR END OF INFUSION
22/11/2017 10:09:15 INF 3 X END OF INFUSION 22/11/2017 10:09:00 INF 3 III END OF INFUSION 22/11/2017 10:09:00 INF 3 X NEAR END OF INFUSION 22/11/2017 10:09:00 INF 3 X NEAR END OF INFUSION 22/11/2017 10:08:45 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 X NEAR END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION
22/11/2017 10:09:00 INF 3 III END OF INFUSION 22/11/2017 10:09:00 INF 3 X NEAR END OF INFUSION 22/11/2017 10:09:45 INF 3 II NEAR END OF INFUSION 22/11/2017 10:09:45 INF 3 II NEAR END OF INFUSION 22/11/2017 10:09:51 INF 5 X END OF INFUSION 22/11/2017 10:09:51 INF 5 III NEAD OF INFUSION 22/11/2017 10:09:53 INF 5 III NEAD OF INFUSION
2211/2011 10:09:00 INF 3 X NEAR END OF INFUSION 22/11/2017 10:08:45 INF 3 II NEAR END OF INFUSION 22/11/2017 10:07:06 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 X NEAR END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:36 INF 5 II NEAR END OF INFUSION
22/11/2017 10:08:45 INF 3 II NEAK END OF INFUSION 22/11/2017 10:06:51 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 X NEAR END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:36 INF 5 II END OF INFUSION
22/11/2017 10:07:06 INF 5 X END OF INFUSION 22/11/2017 10:06:51 INF 5 X NEAR END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:36 INF 5 III NEAR END OF INFUSION
22/11/2017 10:06:51 INF 5 X NEAK END OF INFUSION 22/11/2017 10:06:51 INF 5 III END OF INFUSION 22/11/2017 10:06:36 INF 5 II NEAR END OF INFUSION
22/11/2017 10:06:31 INF 5 III END OF INFUSION 22/11/2017 10:06:36 INF 5 II NEAR END OF INFUSION
22/11/2017 10:06:36 INF 5 !! NEAR END OF INFUSION
22/11/2017 10:03:02 INF 1 X Occusion
22/11/2017 10:02:47 INF 1 III Occlusion
22/11/2017 10:00:36 INP 1 X END OF INPOSION
22/11/2017 10:00:23 INF 1 A INEAR END OF INFUSION
22/11/2017 10:00:23 INI 1 III END OF INFUSION
22/17/2017 10:00:00 INT 1 1: NEAK END OF INT OSION
22/11/2017 09:22:53 MON A Heat Page
22/11/2017 05:20:31 WON I Heart Rate Figh
22/11/2017 03:20:40 MON II Heart Pate High



The events table is displayed below (Fig 26).

Time	Device		Description	^
12:22		×	End: ECG Sensor Warning	
12:22	-//	*	End: Arterial Blood Pressure too high	
12:21			Arterial Blood Pressure too high	
12:21		•	ECG Sensor Warning	-
12:14		×	End: ECG Sensor Warning	
12:14	-//	*	End: Arterial Blood Pressure too high	-
12:14			Arterial Blood Pressure too high	-
12:14		•	ECG Sensor Warning	_
Fia 26	;			

The events table provides the following information:

- Event time (indicated as hh:mm)
- Type of device in which the event occurred
- Number (in case of infusion pumps it indicates the pump number)
- Alarm priority level
- Event description
- The black cross on the alarm symbol indicates the end of the corresponding alarm

1.7 Dashboard configuration

If the Smart Central is configured as a "Dashboard" Smart Central, some additional functionalities are available. These are the "Vital Signs" and "Charts" functionalities, described below (Fig 27 **A**).

Both functionalities are accessible from the "Notification area".



1.7.1 Vital Signs

Click the Vital Signs button to activate the "Vital Signs" functionality (Fig 28 A).

		Ø			
Alarm and even	ts	Vital Signs		Cha	r 💷 🛱
Range:	1 hour 7 days	6 hours all	12 hou	rs 1	day
Interval:	1 min 1 hour	5 mins	15 min	s 30	mins
Devices:	all	-≁- * ∃ & ¥	1a 📦 2		рН
) PARAMETER:	5	:19	12:20	12:21
HR		bpm	2	73	62
RR		bpm	2	20	17
FiO2		%	1	42	24

Fig 28

"Vital signs" makes it possible to display in a table some selected patient parameters (Fig 29). The displayed parameters are defined by configuration. In the table they are grouped by acquisition device.

,	Alarms and eve	nts	Vital signs		Charts	
A	Range:	1 hour all	6 hours	12 hours	1 day	7 days
B	Interval:	1 min	5 mins	15 mins	30 mins	1 hour
\bigcirc	Devices:	all	پن ^م -∿- ۵	h 💫 🕴) 🐞 рН	36 Å
	- ALL PARAN	IETERS	0	18	13:19	^
-	💉 AGW (AGW	SERIAL-5)				
	СН				10	
	💉 Alaris CC (1					
	VolumeRate		mL/h		45	
	InfusedVolun	ne	mL	83.988	3184	.788
	VTBI		mL	8	603	
	PumpPressu	e	mm Hg	2	109	
	PumpTimeRe	main	S		20	
	PumpTimeRe	main		:20:00	00:21	1:00
	DeltaInfused	/olume	mL	300	0.800)
	💉 Alaris CC (1	295)				
	DrugConc		mcg/mL		10	
	4					•
	Fig 29					

Use the "Range" filter (Fig 29 **A**) to display the time span within which the parameters are acquired. For instance: if **1 hour** is selected the table displays the parameters acquired from one hour in the past to the present time; if **6 hours** is selected the table displays the parameters acquired from six hours in the past to the present time, and so on.

Use the "Interval" filter (Fig 29 **B**) to define the values acquisition interval (i.e., depending on the interval selected, the values displayed in the table are acquired each minute, every 5 minutes, every 15 minutes, and so on).

Use the "Devices" filter (Fig 29 C) to display only the values acquired by the selected devices.

Click on "Configured Parameters" (Fig 29 **D**) to display all the acquired parameters (1 minute interval).

The "all" option displays all the acquired parameters (1 minute interval).



A task in the database deletes the previous data at a set time.

Click the print button b to create a print report of the displayed parameters. Click on the excel icon b to export the data to an XLS file.

1.7.2 Charts

Click the Charts button to activate the "Charts" functionality (Fig 30 A).



Fig 30

"Charts" makes it possible to display different charts drawn from the acquired parameters (Fig 31). The charts show the configured parameters as trends. The number of charts, their contents and names are defined by configuration.



Use the "Range" filter (Fig 31 **A**) to define the time span to which the charts refer. For instance: if **1 hour** is selected the charts display the trends starting one hour in the past until present time; if **6 hours** is selected the charts display the trends starting six hours in the past until present time, and so on.

Use the "Filter" option (Fig 31 **B**) to activate an algorithm that approximates the charts values in a way making it possible to better display and evaluate the trends. If this option is activated the acquired data are grouped five by five. Each group of five is then ordered. Then only the middle value of five is kept, while the other four are discarded. This procedure eliminates the lowest and highest values (i.e. artefacts) and provides a "normalised" chart.

The chart indicated at the bottom of the page (Fig 31 C) is always present and displays on three rows the device events. Each event is positioned according to its priority level and time of occurrence.

Click any chart to display a vertical cursor making it possible to display the values of all charts at a given time (Fig 32 A).



Fig 32

1.7.3 Alarms statistics

A printed report of the alarm statistic history can be generated by accessing the System Report menu, displaying graphical statistics inclusive of event summaries and event details.

To print an Alarm statistic report:

- Click Menu button on the control bar
- Click on System Reports
- Click Smart Central Dashboard

From the prompted window will be possible to select the data source between All patients available or the selected patient, as well as the customizable Date Range.

Click on Generate button

A print preview of the selected Event statistics will open.

1.8 Notification area

A notification area is displayed on the right of the Smart Central screen, reporting various notifications sent by the connected devices (Fig 33 **A**).



Fig 33

The notification area can be, by configuration:

- Always visible
- Automatically displayed when a new notification comes
- Only visible after user click on the Digistat button on Control Bar (Fig 33 B).

The different messages are displayed in chronological order, (most recent on top - Fig 34 **A**) and by criticality (High priority alarms on top, then medium priority, then low priority).

[
	All messages
	12/07/2017 12:31 Bed - 5 ALARM
	Arterial Blood Pressure
4	too high; ECG Sensor L'
	Filter
	Select Alarms only
	Showall
	Show all
	Current Patient
	All patients
<u> </u>	Fig 34

Each notification is characterized by the colour corresponding to the priority level (red for high priority, yellow for medium priority, blue for low priority).



In the message box (Fig 35), the following information is displayed:

- Date-time of occurrence
- The number of the bed from which the message comes •
- The actual message text ٠
- An icon characterizing the message type (Warning, Alarm, Info Fig 35 A) •
- An icon indicating the message category (Fig 35 B) ٠
- A "Callback" button. Click the button to access the patient station on which the notification occurred (Fig 35 C)

At the bottom of the area, four different filters are available, making it possible to choose the type of message to be displayed (Fig 34 B). The available filters are:

- Only alarms •
- All messages •
- Messages relating only to the selected patient •

Messages relating to all patients

1.9 Alarms notification



The purpose of the system is to help with alarm management and shall not be used as a remote alarm system or as an alarm replicator.

By default, the Smart Central screen displays the device data referring to a bed only if there is an alarm notification coming from at least one of the devices connected to that bed.

In a condition of "No alarms" the Smart Central screen would appear as in Fig 36, where five connected "Beds" are displayed and where no devices on any of the beds is in alarm state.





Each time an alarm occurs on one of the devices, the data relating to the bed to which the device is connected is displayed. In Fig 37, for instance, bed 3 is notifying a high priority alarm. A short text specifying the kind of alarm occurring is displayed on the "Bed area".

1 () Patient 1, Care	2 🔗 Patient 2, Jim	3 🌲 Patient 3, Joe
		 Carescape Arterial Blood Pressure too high; ECG Sensor Warning
Ċ	I	
	(i) Pump 2: Next EOI: 0h13m	
4 🔗 Patient 4, Rose	5 🔗 Patient 5, Ellen	6 🔗 Patient 6, Bill
I	9	I
(i) Pump 1: Next EOI: 0h55m	(i) Pump 2: Next EOI: 2h01m	(i) Pump 3: Next EOI: 1h05m
SMART CENTRAL	V (?) LEGEND (VALUES	
Fig 37		

In addition, a sound notification is provided. Three different sounds exist, one for each alarm priority level. In case of multiple alarms, the sound corresponding to the one with highest priority is provided.

The occurrence of alarms is also notified on the command bar by the arrow-buttons indicated in Fig 38, Fig 39 and Fig 40.

SMART CENTRAL		Legend	 Values 	
Fig 38				
SMART CENTRAL	\sim	Legend	Values	
Fig 39				
SMART CENTRAL	\sim	(?) Legend	💿 Values	
Fig 40		<u> </u>		

These buttons make it possible to scroll up and down the screen when it is not possible to display all the configured "Bed areas" at the same time.

When one (at least) of the non-displayed "Bed areas" is notifying an alarm, the corresponding button takes the color corresponding to the alarm priority level (blue = low; yellow = medium; red = high).

In case of multiple alarms the arrow color corresponds to the one with the highest priority.

An icon can be displayed within the box between the arrow buttons (Fig 41). It indicates that there is an alarm on one of the "Bed areas" currently displayed.



A visual feature on the upper bar on each "Bed area" keeps temporarily track of the last alarm notified after the "Bed area" has changed to a different priority level alarm (or no alarm). This makes it possible to be aware of alarms occurring and rapidly passing.

When the state of a "Bed area" changes to a lower level alarm (or no alarm), the color relating to the previous alarm (Fig 42) remains on the heading bar for a certain configurable time.



1.9.1 Alarms notification on Control Bar

Alarms are also notified on the Digistat Control Bar, so that they are always visible in case other Digistat modules are installed and currently selected.



The button color depends on the alarm priority level (cyan=low; yellow=medium; red=high). For high and medium priority alarms, the button flashes.

Click the button to display the notification area (Fig 43 A)

The notification disappears when the alarm conditions no longer exist.

1.10 Sound Check procedure



The Sound Check procedure shall be performed at least once per shift.

When Smart Central is started, it provides a specific sound indicating that the sound notification of alarms is working properly.

If the sound is not provided the user can perform a "Sound Check" procedure. To perform the "Sound Check" procedure

Click the **Menu** button on Control Bar (Fig 44)



The following menu is displayed (Fig 45).

MAIN	MENU		×
矏	CLINICAL CONFIGURATION	ŝ	SYSTEM CONFIGURATION
X		₽ ¢	MODULES CONFIGURATION
all.	PATIENT REPORTS		SYSTEM REPORTS
iiiii	STATISTICS	Þ	CHANGE PASSWORD
(QUIT	ñ	ABOUT
\times	(CLOSE	

Fig 45

Click on Modules Configuration (Fig 45 A)

The following menu opens (Fig 46).

MOD	ULES CONFIG	URAT	ION		\times
Ģ	DAS Ports	A	C _{\$}	SOUND CHECK	
Ģ	SmartCentral Maintenance Lo	g			
\times		CLO	DSE		

Fig 46

Click on Sound Check (Fig 46 A)

The following pop-up window opens, asking whether a sound is heard or not from speakers (Fig 47).



If a sound is heard, then click **Yes**. The pop-up window disappears and nothing else happens (meaning that the system is working correctly).

If no sound is heard, then click **No**. The pop-up window disappears and a notification is displayed on Control Bar, meaning that an error occurred while checking the sound notification system (Fig 48 and Fig 49).



The notification remains while working with Smart Central. It disappears when another "Sound Check" procedure is performed and a "YES" answer is provided in the end. The notification button can be clicked to display a more detailed explanation of the error occurred.

1.11 Smart Central Video

The Smart Central module can be configured to support the video stream of a webcam. This feature enables the visual monitoring of the patient area.

If the Smart Central Video feature is enabled and properly configured, the Smart Central main screen is like the one reported below (Fig 50).

=	DIGISTAT Choose patient		🖄 ? 🕞 CENTRAL 🕑 20 MAR 2019 🕐
Â	1 & Occupied bed	2 S Occupied bed	3 🔗 Occupied bed
žΞ	Space Rack + BBraun P1:22 mcg/n, 0.4 mi/h, 50 mcg/ml, 00:03:03 remaining P2: Dobutimes 3: ml/h, 50 mcg/ml, 00:03:03 remaining Conscious P480-06 HP (EOG 645 bpm Art: 19/15 (90) mm Hg NI0P-131779 (96) mm Hg SPO2 Art: 806		
	4 & Occupied bed	5 8 Occupied bed	6 Occupied bed
		5	6
		 5 Ø Occupied bed <i>Ø</i> Space Rack - BBraun P1: 8 mcg/th, 051 mcg/mL, 00:17:34 remaining P2: 6 mil/h, 00:12 of remaining P3: 8 mil/h, 00:12 of remaining P3: 8 mil/metanil 4 4 mu/h, 10 mmol/mL, 00:17:05 remaining P3: 8 mil/metanil 4 4 mu/h, 10 mmol/mL, 00:17:05 remaining P4: Carcisoge 9 M50-05 H4 RF (Co: 64 bpm Art: 324/93 (00) mm Hg HUB: L285 (50) mm Hg SP02 Art: 92% 	 G ⊘ Occupied bed ✓ Space Rack. BBraun P1: 10 mg/h, 6.67 mg/ml, 10.052.39 remaining P1: 11 mg/h, 0.67 mg/ml, 15.mg/ml, 0.0052.39 remaining P4: Dobbarnies Psmg/h, 15.mg/ml, 0.0012.30 remaining P6: Diltiazem 26 mg/h, 0.52 mJ/h, 50 mg/ml, 0003/37 remaining → Carecage B850-0E HR ECG: 64 bpm Art: 11.77 (68) mm Hg NIBP: 128/83 (08) mm Hg SPO2 Art: 96%

Fig 50

A thumbnail is displayed in the "bed area", showing the real-time video stream of the webcam (Fig 50 A). The thumbnail size is configurable.

An additional button is present in the Smart Central command bar.

Touch the button Camera to toggle (show or hide) the webcam thumbnail (Fig 51).

DIGISTAT Choose patient			▲ Ω ADM □ ICU CENTRAL ③ 11:42 AM 20 MAR 2019 ⑦
Otto:STAT Choose patient 100 Patient 1, Care Pspace Rack - Beraun P1: 19 mg/n, 12.67 mL/n, 1.5 mg/ P2: Dobutamics 31 mL/n,0007X PC PC Carescape B450 - GE HR ECC: 60 bpm Art: 123/a) B50 - ME HR B2: 32177 (92) mm Hg SP02 Art: 94% SP02 Art: 94%	nL, 00:12:36 remaining 5 remaining	Patient 2, Jim Space Rack: #Brain Space Rack: #Brain EnD OF INFUSION P1: Cabecate mexystate 26mm/u/h, 2.6 mL/h, 10 mm/u/mL, 00:06:13 remaining P2: 2 mp/u/h, 1.5 mm/u/mL, 00:00:05 remaining P3: 31 mm/u/h, 10:00:01:11 remaining P4: 31 mm/u/h, 10:00:00:00:00:00:00:00:00:00:00:00:00:0	Image: Constraint of the
(i) Pump 2: Next EOI: 00h07m			Pump 1: Next EOI: 00h04m
4 A Patient 4, Rose		5 🖉 Patient 5, Ellen	6 Patient 6, Bill
A Patient 4, Rose Separe Nack- BiBaun Magnet Nack- BiBaun Magnet Nack- BiBaun Pit-Galesate merytate 2 mms// Pit-9 mms//bit, 2-9 mm, 2/0 mms// Pit-9 mms//bit, 2-9 mm, 2/0 mms// Pit-9 million 9 mm, 2/0 mms// Pit-9 million 9 mms// MiBrit 117/83 (H) mm Hg SP02 Art: 946	ON , 0.3 mL/h.1.0 mmol/ml., 0005015 remaining ./ml., 0000114 remaining ml.h.10 mmol/ml., 0000012 remaining	S P Patient 5, Ellen Space Rack-BBraun P1: 8 mcg/mL, 00:13:40 remaining P2: 6 mL/h, 00:36:40 remaining P2: 6 mL/h, 00:36:40 remaining P2: 8 mml/mLani 44 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P2: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P2: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P2: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P2: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P2: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P2: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P2: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 10 mmol/mL, 00:13:11 remaining P3: Remitten 14 4 mmol/h, 10 mmol/mL, 10	 G → Patient 6, Bill Space Tack- BBraun P1: 10mg/h, 647mL/h, 1.5mg/mL, 0001:44 remaining P2: 31mg/h, 647mL/h, 1.5mg/mL, 000507 remaining P3: 15mg/h, 647mL/h, 1.5mg/mL, 000507 remaining P4: 37mg/h, 0.74mL/h, 50mg/mL, 000507 remaining P6: 37mg/h, 0.74mL/h, 50mg/mL, 0000000 remaining P6: 27mg/h, 0.74mL/h, 50mg/mL, 0000000 remaining P6: 27mg/h, 0.74mL/h, 50mg/mL, 0000000 remaining P6: 27mg/h, 00000000000 remaining P6: 27mg/h, 000000000000000000000000000 remaining P6: 27mg/h, 000000000000000000000000000000000000
A Patient 4, Rose Sopace Rock - Behavin Sopace Rock - Behavin Marce Rock - Behavin Marce Rock - Behavin Marce Rock - Behavin Post Hermolytic, 3-end, h, 1000-2-end Post Hermolytic, 3-end, h, 1000-2-end Post Biological And Andrea Andrea Post Biological Andrea Andrea Post Biological Andrea Post Biological Andrea Sopace Rock - Behaving Andrea Sopace Rock - Be	CN , b, 2m / 1, 0 mmol (mt., 40.05015 remaining (mt., 50.000 : 1 remaining mt.)h, 1 0 mmol (mt., 60.0612 remaining	5 Patient 5, Ellen Image: Space Rack-BBraun P1: 8 mcg/m, 0.61m (/h, 50 mcg/mL, 00:13:40 remaining P2: 6 mL/h, 0.0058:05 mcg/mL, 00:13:10 mmol/mL, 00:13:11 remaining P3: Remitmani 44 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:13:11 remaining P4: Carescape B460-0E MMC Carescape B460-0E MR ECG: 66 bpm ATL: 12/83 (98) mm Hg SP02 Art: 92% Pump 2: Next EOI: 00h08m	

Fig 51



> Touch the relevant Bed Area (Fig 50 **A**) to enlarge the video (Fig 52):

The patient Dashboard displays an additional tab, labelled as **Camera**, corresponding to the enlarged view.

Alarms and events	Vital signs	Charts	Camera

The Camera tab is shown first if the 6 Camera button is selected in the Smart Central main screen:

Touch the Camera label to select the Camera tab in the Dashboard, if not currently selected.

The "Privacy Blind" feature allows the user to turn off the webcam of the considered patient: this can be done either permanently or for a certain time interval. During the Privacy Blind mode no video stream can be viewed. The Privacy Blind mode is disabled by default.

The Privacy Blind mode is indicated by the icon \square in the Smart Central screen and in the Bed Area screen.

The Privacy Blind button bar is represented below

Privacy blind: Off on 5 mins 15 mins 30 mins

> Touch the On button to enable the Privacy Blind mode.

When selected, the **On** button is highlighted.

Privacy blind: Off on 5 mins 15 mins 30 mins

In Privacy Blind mode the Bed Area is like the one shown below (Fig 53):



1 Patient 1, Care	2 Patient 2, Jim	3 & Patient 3, Joe
	 Space Rack - BBraun P1: Gabecate mesylate 26 mmol/h, 2.6 mL/h, 10 mmol/mL, 00:08:25 remaining P2: 21 mmol/h, 1.3 mL/h, 15 mg/mL, 00:02:24 remaining P3: 10 mmol/h, 10 mmol/mL, 00:03:11 emaining P4: Bernifentanii SmL/h, 00:02:03 remaining P4: Remeintentanii SmL/h, 00:02:03 remaining P4: Carecage P450-06 HR ECG: 68 bpm Art: 11/37 (19) mm Hg NIBP: 121/77 (19) mm Hg SP02 Art: 89% 	 Space Rack-BBraun P1: 27 mL/h,005657 remaining P2: Dobutamie 38 mcgh, 0.72 mL/h,50 mcg/mL,00:11:05 remaining Carrescape PM50- GE He EG: 64 bom Art: 134/74 (94) mm Hg NIPE: 123/33 (96) mm Hg SP02 Art: 89%
	5 S Patient 5, Ellen Space Rack - Bizsun P1:8 mcgh, 0.51m (J, 50 mcg/mL, 00:15:52 remaining P2:6 mL/h, 0.01022 remaining P3:8 millertanil 44 mmol/h, 4.4 mL/h, 10 mmol/mL, 00:15:23 remaining → Carescape B450 - GE	6 ♂ Patient 6, Bill ✓ Space Back - Bitrum P: 10mg/h, 6.67 mL/h, 1.5 mg/mL, 00:0357 remaining P: 11 mL/h, 00:0125 remaining P: 10 mg/h, 12.67 mL/h, 1.5 mg/mL, 00:0151 9 remaining P: 10 mg/h, 12.67 mL/h, 1.5 mg/mL, 00:00645 remaining
P>:kemidentani 2≠miu/m,23 miu/m,10 mimoi/mL,0008r;24 remaining +/+ Carescape 8450 - 0E +/+ ECC:68 bpm Art: 12/63 3/7 mm Hg NIBP:121/74 (90) mm Hg SPO2 Art: 88%	Ht ELGs 66 bpm Art: 12185 (97) mm Hg NIBP: 134/77 (96) mm Hg SPP02 Art: 90%	Pr: 31 mg/p, 0, 4 mg/p, 50 mg/p, 100058.17 remaining Pro Dilatara 26 mg/h, 0.5 mg/mL, 0000155 remaining → Carrescape B450-0E HR ECG: 67 bpm Art 131774 (93) mm Hg SP02 Art 84%

In Privacy mode the Smart Central screen is like the one shown below (Fig 54):

Fig 54

> Touch the **Off** button to disable the Privacy Blind mode.

To activate the Privacy Mode only for certain time interval:

Touch the **5 mins** or **15 mins** or **30 mins** buttons to enable the Privacy Mode for 5 or 15 or 30 minutes.

The selected button in the button bar is highlighted.

Privacy blind: Off on 5 mins 15 mins 3	0 mins
--	--------

After the selected time interval, the Privacy Mode automatically turns off.

1.12 Patient admission, selection and search

Although Smart Central is commonly used as a monitor in the ward or unit to facilitate alarms notification and management, in some installation it is possible, for users having specific permissions, to use patient admission, search and selection tools. To access these functionalities:

Click the Patient button on Control Bar (Fig 55 A and Fig 56).



Fig 55



The "Anonymous Patient" screen is displayed by default (Fig 57).

	DIGISTAT	Choose pati	ient		<u>्र</u> adm	CENTRAL	3 NOV 2017	?
Â			A	Create and admit ar	i anonymous patie	nt		
	ADM	IISSION	Location		Bed			
	PAT	TIENTS	ICU		9 10			_
	SE	ARCH			10			
	5							
	ANO	NYMOUS	IN BED	ADT				
	PATIENT EX	PLORER (+) NEW/ADMIT 🖉 EDIT			SELECT	NONE × 0	CLOSE
Fig	57							

1.12.1 The "Anonymous Patient" screen



The "Anonymous Patient" screen makes it possible to admit a patient whose data are not yet available. In the area indicated in Fig 57 A all the available beds are listed.

To admit an anonymous patient to a bed,

> Double click the row corresponding to the wanted bed

User confirmation is required (Fig 58).

Are you sure you want to patient?	create and admit an anonymous
7	NO

Fig 58

> Click Yes to admit the patient. The Smart Central screen related to that patient is then displayed. A temporary name is automatically assigned (Patient 10 - Fig 59 **A**)



Use the "Edit patient" functionalities to later complete the patient data (see paragraph 1.14.2)

1.12.2 Admitted patients list

To display the list of admitted patients:

> Click the In Bed button on the command bar (Fig 60 A)

The list of beds configured in the domain is this way displayed (Fig 60 B).

DIGISTAT Choose patier	ıt		(j)	<u>₰</u> adm	CENTRAL	() 2:56 AM 23 NOV 2017	0
PATIENTS ADMISSION	1 100	Patient 1 Care 22/11/2017 07:57					
PATIENTS SEARCH	2 icu	Patient 2 Jim 22/11/2017 07:57					
	3 icu	Patient 3 Joe 22/11/2017 07:57					
B	4 F	Patient 4 Rose 22/11/2017 07:57					
	5 F	Patient 5 Ellen 22/11/2017 07:57					
	<mark>6</mark> іси	Patient 6 Bill 22/11/2017 07:57					
	7 F	Patient 7 Mark 22/11/2017 07:57					
	8 P	atient 8 Aaron 22/11/2017 07:57					
	9 P	atient 9 Blake 22/11/2017 07:57					
		-					
ANONYMOUS	IN BED	A	DT				
PATIENT EXPLORER (🕀	ew/admit 🧷 edi	Т				NONE X	CLOSE

Fig 60

The rectangular buttons on the screen (Fig 60 **B**) represent the beds configured in the workstation domain (usually the beds of a specific ward). If a patient is admitted to a bed, the patient name is displayed on the area (Fig 61 **A**). Below the patient name you can read the admission date. Areas with no name correspond to empty beds (Fig 61 **B**).



Fig 61

Click one of the areas to select the corresponding patient

The name of the selected patient is displayed on the **Patient** button on Control Bar (Fig 62).



The system displays the current situation of the selected patient on the Smart Central (i.e. the corresponding "Bed area") in full-screen mode (Fig 63).

4 S Patient 4, Rose Femmina 25 y MRN: 20000004	Alarms and events	Vital signs Charts 🖨
 AGW - Carefusion P1: Amiodaron 10 ng/mL/min ,20 mL/h ,10 mcg/mL ,00: P2: Noradrenaline 14 ng/mL/min ,23 mL/h ,15 mcg/mL ,00 P3: ,45 mL/h , 00:21:00 minutes P4: Frusemide 12 ng/mL/min ,22 mL/h ,4 mcg/mL ,00:20 	Range: <u>1 hour</u> 7 days Event: all Devices: all	6 hours 12 hours 1 day all ⓐ ❶ ▲ ♣ ở ↔ ☆ ゐ ゐ ⓓ ఈ bH
⊷√⊷ 650 - GE HR ECG: 62 bpm NBP: 103/60 (81) mm Hg SPO2 Art: 90 %	Time Device # 10:46 ∳ 2 🗙	End: P2: Near End of Infusion
 Evita XL - Draeger HR ECG: 71 bpm RR: 24 bpm HIGH PEEP: 8 mm Hg PSF: 5 mL/s PI mean: 6 mbar PLT: 9 mbar FiO2 Art: 50 % VTe: 337 mL NM contact for the second se	10:46 -\frac{1}{2}- 10:46 -\frac{1}{2}- 10:46 -\frac{1}{2}- 10:46 -\frac{1}{2}- 10:46 -\frac{1}{2}- 10:46 -\frac{1}{2}-	End: Arterial Blood Pressure too high End: ECG Sensor Warning Near End of Infusion Arterial Blood Pressure too high ECG Sensor Warning End: Arterial Blood Pressure too high End: ECG Sensor Warning
WVE: SUBS L/min Pump 2: Next EOI: 0h13m	10:45 -\lambda - 10:45 -\lambda -	Arterial Blood Pressure too high ECG Sensor Warning End: Arterial Blood Pressure too high End: ECG Sensor Warning Arterial Blood Pressure too high ECG Sensor Warning
SMART CENTRAL) Legend	

Fig 63

1.12.3 Patients from ADT

If a specific software component is installed server-side, the Smart Central system can acquire patient data from the Healthcare Structure ADT.

If the system is so configured, and if bed information is provided, then the patient can be directly admitted to bed by the ADT. In this case the ward staff will automatically see the new patients on the list of admitted patients (Fig 60).

Otherwise, the patients assigned to the department by the ADT will be listed on a specific screen. To access this screen:



Click the ADT button on the command bar (Fig 64 A)

Fig 64

Patients assigned by the ADT are listed on the area indicated in Fig 69 **B**. For each patient the following information is provided:

- First name
- Last name
- Sex
- Birthdate
- Patient Code

To select a patient

> Double click the row corresponding to the patient

The **New/Admit Patient** window, containing the available patient data will be displayed (Fig 65).



Fig 65

Specify the bed number in the field indicated in Fig 65 A

1.12.4 Direct patient admission

It is possible to directly admit a patient to a bed by entering patient data. To do that, use the New/Admit patient functionality, which is described in paragraph 1.14.1.

1.13 Patient search

To search for a patient's data on the Digistat database:

Click the SEARCH button indicated in Fig 66 A

	DIGISTAT Choose patien	t		<u>(</u>)	R adm	CENTRAL	C 2:56 AM 23 NOV 2017	?
Ŷ	PATIENTS ADMISSION	1 .cu	Patient 1 Care 22/11/2017 07:57					
A	PATIENTS SEARCH	2 	Patient 2 Jim 22/11/2017 07:57					
		3 ICU	Patient 3 Joe 22/11/2017 07:57					
		<mark>4</mark> іси	Patient 4 Rose 22/11/2017 07:57					
		5 ICU	Patient 5 Ellen 22/11/2017 07:57					
		6 ICU	Patient 6 Bill 22/11/2017 07:57					
		7 ICU	Patient 7 Mark 22/11/2017 07:57					
		8 ICU	Patient 8 Aaron 22/11/2017 07:57					
		9 ICU	Patient 9 Blake 22/11/2017 07:57					
		10	_					
	ANONYMOUS	1	N BED	ADT				
	PATIENT EXPLORER (🕀 N	EW/ADMIT	Ø EDIT				NONE ×	CLOSE

Fig 66

The following screen will open (Fig 67).

\equiv	DIGISTAT	Choose pati	ent					CENTRAL	3:20 A 23 NOV	M / 2017 ⑦
Â	_					LOCAL SEARC	CH			
	ADM	TIENTS	First name Birth date	- Sex	Last name Patient code					SEARCH
	PA		Location		•					CLEAR
	LOCA	LSEARCH								
	PATIENT EX	PLORER					SE SE	LECT	NONE	× CLOSE
Fig	67									

Fig 67

The search fields in the upper area make allow relevant patient's information to be searched (Fig 68).

	A	®
First name	Last name	SEARCH
Birth date	/ / • Sex Patient code	
Location		CLEAR
Fig 68		

To search for a patient:

- Enter the data of the patient you are searching for in one or more fields (Fig 68 A).
- Click the **Search** button (Fig 68 **B**).

The central area displays in a table the list of all the patients whose data match those specified.

The system displays the list of patients who satisfy <u>all</u> the search parameters entered.

For example: if a search is performed by entering the patient's date of birth, the result will list all patients born on that date. If a search is performed by entering the patient's date of birth **and** sex the result will list only the men or women born on that date.

- Click the Search button without entering any value in the search fields to display the list of all the patients registered in the database
- > Use the **Clear** button to clear the search filters

1.13.1 The search results

The search results are shown in the central part of the screen (Fig 69).

Family Name	Given Name	Sex	Birthdate	Patient Code
Patient	Test	м		3342
Patient 1	Care	м	03/11/1990	20000001
Patient 2	Jim	M	07/05/1993	2000002
Patient 3	Joe	м	07/05/1989	2000003
Patient 4	Rose	F	03/05/1992	20000004
Patient 5	Ellen	F	03/09/1987	2000005
Patient 6	Bill	м	03/11/1967	20000006
Patient 7	Mark	м	03/12/1967	2000007
Patient 8	Aaron	м	01/12/1960	2000008

Fig 69

The results are displayed in alphabetical order of the family name. The information provided for each result depends on the configuration in use. In the example shown in Fig 69 the columns indicate the family name, first name, sex, patient code and date of birth of every patient. It is possible that not all the data will be available for a patient, in which case the area corresponding to the missing information is empty.

To select a patient on the list:

> Double click the row corresponding to that patient

1.14 The Command bar

The command bar (Fig 70) contains buttons making it possible to perform different actions.



- 1) **New/Admit Patient** (Fig 70 **A**) This button makes it possible to enter a new patient in the database and to admit him/her to a bed (see paragraph 1.14.1 for the detailed procedure).
- 2) Edit Patient (Fig 70 B) This button makes it possible to edit the patient's data (see paragraph 1.14.2).
- 3) **Print** (Fig 70 **C**) This button, when enabled, prints the grid currently displayed on screen.
- 4) **Export** (Fig 70 **D**) This button, when enabled, makes it possible to export the current data to an XLS file.
- 5) Select (Fig 70 E) This button makes it possible to select a patient.
- 6) None (Fig 70 F) This button makes it possible to deselect a patient when he/she is selected. After clicking the None button, the name of the previously selected patient disappears from the Patient button (see paragraph 1.14.8).
- 7) Close (Fig 70 G) This button closes the search screen (see paragraph 1.14.9).

1.14.1 New/Admit patient

The **New/Admit Patient** button (Fig 71) makes it possible to enter a new patient in the database and to admit them into a bed.



To enter a new patient:

Click the New/Admit Patient button

The following window opens (Fig 72).

NEW/A						
	Family Name		Given Name		Initial	5
•	Patient Code		Birth Date		Sex	
				-		•
	Notes					
						^
						\sim
	Admission Date - time		Discharge Date - tir	ne		
	11/23/2017 - 3:27:16 AM	*		-	-	*
Ŀ	Admission Code		Height [cm]	Weight [k	g]	
				÷		÷
_i	Location		Bed			
	ICU	-				•
			/ ок	XC	ANCEL	
			•	~ ~		

Fig 72

- > Enter the new patient's data. The fields highlighted in pink are mandatory
- Click **Ok** to confirm

The new patient is registered in the database and admitted to the bed/department specified in the "Location" and "Bed" fields (Fig 72).

1.14.2 Edit patient

The Edit Patient button (Fig 73) makes it possible to edit the data of a selected patient.

PATIENT EXPLORER	+ NEW/ADMIT	🧷 EDIT	B PRINT	EXPORT	SELECT	NONE	× CLOSE
Fig 73		\smile					

Remember that this button can only be used if a patient is selected. The name must appear on the **Patient** button of the Digistat Control Bar (Fig 74).

The "edit" operations performed are always for the patient whose name appears on the **Patient** button (Fig 74).



To edit the patient's data:

- > Select the patient whose data must be edited
- Click the Edit Patient button

A menu containing different options opens (Fig 75).



Each of these options makes it possible to perform a different operation. The functions of the different buttons on the menu are described in the following sections.

1.14.3 Move

The **Move** button (Fig 75 **A**) makes it possible to register the transfer of the patient selected to a different bed and/or a different location.

To transfer a patient:

Select the patient

The name of the selected patient is displayed on the **Patient** button.

Click the Edit Patient button

A drop-down menu containing various options opens (Fig 75).

Click the Move button (Fig 75 A)

The following window opens (Fig 76).

BED				×
	SELECT Location	THE NEW	BED FOR T	
•	ICU	-		
Ň	Bed			
	1 (Pati	ent 1, Care)	-
	_		_	\sim
	\checkmark	OK	×	CANCEL

Fig 76

Use the arrow buttons (Fig 76 A) to select the bed to which the patient will be transferred

The upper button opens a list of all the locations available.

The lower button opens a list of all the beds available in the location selected.

If the name of a patient appears alongside the bed number, the bed is already occupied.

Click **Ok** to confirm

If an occupied bed is selected and the **Ok** button is clicked, a pop-up message is provided, asking whether we want to exchange the patients in the two beds.

1				
THE SELECTED BED IS	OCCUPIED. DO YOU WAN	T TO SWAP THE PAT	IENTS ON THE TWO BEDS	?
	YES	NO		
Fig 77				

1.14.4 Admit

The admission button is disabled. The admission procedure is performed together with the "New patient" recording procedure. See paragraph 1.14.1.

1.14.5 Discharge

The **Discharge** button makes it possible to register the discharge of a patient.

To discharge a patient

> Select the patient

The name of the selected patient is displayed on the **Patient** button.

Click the Edit Patient button

A menu containing various options opens (Fig 78).

EDIT	
DELETE	
A DISCHARGE	
ADMIT	
MOVE	
🖉 EDIT	
Fig 78	

Click the **Discharge** button (Fig 78 A)

A pop-up message requesting confirmation of the operation opens (Fig 79).

i						
ARE YOU SURE YO	OU WANT TO	DISCHARGE	THIS PATIEN	IT?		
				NO		
Fig 79						

Click Yes to proceed with the discharge of the patient

This action opens the window containing the patient's data (Fig 80 – unlike the window shown in Fig 72, here you can change the date and time of discharge).

Family Name		Given Name		Initia	
Patient 7		Mark			
Patient Code		Birth Date		Sex	
2000007		12/3/1967	-	м	
Notes				_	
Admission Date - time	•	Discharge Date	- time		
Admission Date - time 11/22/2017	▼ 7:57:40 AM	Discharge Date	- time • 9:07:56	AM	
Admission Date - time 11/22/2017 Admission Code	▼ 7:57:40 AM	Discharge Date 11/23/2017 Height [cm]	- time 9:07:56 Weight [J	AM	
Admission Date - time 11/22/2017 Admission Code 20000007#1	▼ 7:57:40 AM	Discharge Date 11/23/2017 Height [cm] 181	- time 9:07:56 Weight [I 90	AM (g]	

Fig 80

> Click **Ok** to complete the discharge procedure (Fig 80 **A**)

1.14.6 Delete

The **Delete** button makes it possible to delete all data of a patient from the database.

To delete a patient's data:

> Select the patient

The name of the selected patient is displayed on the **Patient** button.

Click the Edit Patient button

A menu containing various options opens (Fig 81).

EDIT	
DELETE	
DISCHARGE	
ADMIT	
MOVE	
Ø EDIT	
Fig 81	

Click the **Delete** button (Fig 81 A)

A pop-up message requesting confirmation is provided (Fig 82).

i
Are you sure you want to permanently DELETE THIS PATIENT and ALL THEIR RECORDS?
PATIENT: Patient 7, Mark
YES NO
Fig 82

> Click **Yes** to proceed with the deletion procedure



Once a patient has been deleted it is no longer possible to access any document regarding him/her acquired through the Product Digistat. Therefore, it is necessary to perform this operation with extreme caution. Only users with specific permissions are enabled to delete a patient.

1.14.7 Edit

The **Edit** button makes it possible to edit data of a selected patient.

To edit a patient's data:

Select the patient.

The name of the selected patient is displayed on the **Patient** button.

Click the **Edit Patient** button

A menu containing various options opens (Fig 83).



Fig 83

Click the Edit button (Fig 83 A)

A window containing the patient's data opens (Fig 84).

Family Name	Given Name	Initials
Patient 7	Mark	
Patient Code	Birth Date	Sex
2000007	12/3/1967	• M
Notes		
Admission Date - time	Discharge Date - time	
11/22/2017 - 7.57.40 AM	▲	
11/22/2017 • 7:57:40 AM	▼	
Admission Code	Height [cm]	eight [kg]

Fig 84

- > Edit the patient's data
- Click **Ok** to confirm (Fig 84 **A**).

1.14.8 Deselect patient

The **None** button (Fig 85) makes it possible to deselect the selected patient (whose name is shown on the PATIENT button).

PATIENT EXPLORER	+ NEW/ADMIT	🖉 EDIT	EXPORT	SELECT		× CLOSE
Fig 85					\smile	

To deselect a patient:

Click the None button (Fig 85)

The patient's name disappears from the **Patient** button.

1.14.9 Close

The **Close** button (Fig 86) makes it possible to close the search screen.

PATIENT EXPLORER	+ NEW/ADMIT	🖉 EDIT	🖨 PRINT	EXPORT	SELECT	NONE	$\left(\times \text{ close} \right)$
Fig 86							

To close the patient search screen:

> Click the **Close** button on the screen (Fig 86)

2. Bedside configuration

The Smart Central system can be configured to be "locked" to a single bed. In this case the screen displays the data of the connected bed in full-screen mode. In Fig 87 the workstation is locked to bed 2.

2 🔗 Patient 2, Jim
 AGW P1: Amiodaron 10 ng/mL/min ,20 mL/h ,10 mcg/mL , 00:21:00 minutes P2: Noradrenaline 14 ng/mL/min ,23 mL/h ,15 mcg/mL , 00:20:00 minutes P3: ,45 mL/h , ,00:21:00 minutes P4: Frusemide 12 ng/mL/min ,22 mL/h ,4 mcg/mL , 00:21:00 minutes
Evita HR ECG: 73 bpm RR: 22 bpm HIGH PEEP: 6 mm Hg PSF: 5 mL/s PI mean: 5 mbar FIO2 Art: 59 % VTe: 332 mL MVe: 7304 L/min
Pump 2: Next EOI: 0h13m SMART CENTRAL

Fig 87

The "Bed area" is the same as described above.

Three buttons are in the command bar.

Use the **Legend** button to display the "Legend" window explaining the meaning of the different icons (see paragraph 1.5.1).

Use the **Values** button to display the device values when no alarm is provided (see paragraph 1.4.1).

Use the **MyPatients** button to select other beds to be displayed on the screen (see next section).

2.1 My Patients

The "My patients" functionality makes it possible to display up to 4 additional "Bed areas" on a "Bedside" workstation (maximum 5 in total, depending on configuration).

To use this functionality:

> Click the **MyPatients** button on the command bar

The following window opens (Fig 88).

My patients	B Otł	her patients	IC
2 - Patient 2, Jim		1 - Patient 1, Care	
	-	3 - Patient 3, Joe	
		4 - Patient 4, Rose	
		5 - Patient 5, Ellen	
		6 - Patient 6, Bill	
		7 - Patient 7, Mark	
		8 - Patient 8, Aaron	
		0	~
		ок	CANCEL

Fig 88

On the left, in the "My patients" column, is the list of "Bed areas" currently displayed (Fig 88 **A**). Each box represents a "Bed area". The box on top represents the patient to which the workstation is locked.

On the right, in the "Other Patients" column, all the existing "Bed areas" are listed (Fig 88 **B**).

To select a "Bed area" to be displayed on screen,

Click the corresponding box for the patient in the "Other Patients" column

The box disappears from the "Other Patients" column (right) and is displayed on the "My Patients" column (Left). A maximum of 4 additional "Bed areas" can be selected (depending on configuration).

MYPATIENTS	X
My patients	Other patients ICU
2 - Patient 2, Jim	1 - Patient 1, Care
3 - Patient 3, Joe 5 - Patient 5, Ellen	4 - Patient 4, Rose
	6 - Patient 6, Bill
	7 - Patient 7, Mark
8 - Patient 8, Aaron	9
	10
	OK CANCEL



In Fig 89 "Bed areas" 3, 5 and 8 are selected.

> Then click the **Ok** button

The Smart Central screen is displayed as shown in Fig 90.

2 🔗 Patient 2, Jim		
AGW P1:Amiodaron 10 ng/mL/min P2:Noradrenaline 14 ng/mL/min P3: P4:Frusemide 12 ng/mL/min		
-₩- Carescape HR ECG: 61 bpm AP: 109/80 (94) mm Hg		>>>
More devices		
 Pump 2: Next EOI: 0h13m Patient 3, Joe 	5 🔗 Patient 5, Ellen	8 🔗 Patient 8, Aaron
ø∳ AGW	,ø∲* AGW	AGW
P1:Amiodaron 10 ng/mL/min P2:Noradrenaline 14 ng/mL/min	P1:Amiodaron 10 ng/mL/min P2:Noradrenaline 14 ng/mL/min	P1:Amiodaron 10 ng/mL/min P2:Noradrenaline 14 ng/mL/min
P3:	P3:	P3:
P4:Frusemide 12 ng/mL/min	P4:Frusemide 12 ng/mL/min	P4:Frusemide 12 ng/mL/min
More devices	More devices	More devices
(i) Pump 3: Next EOI: 1h20m	Pump 2: Next EOI: 2h01m	(i) Pump 2: Next EOI: 0h23m
SMART CENTRAL		
Fig 90		

The "Bed area" to which the workstation is locked is number 1 (large, on top). "Bed areas" 3, 5, 8 are displayed underneath the locked "bed area" and are smaller.

The additional "Bed areas" can be enlarged.

Click on one of the additional "Bed areas" to enlarge it. Click again to bring it back to the original proportions

In order to remove one or all the additional "Bed areas",

> Click the **MyPatients** button on the command bar

The "My Patients" window is displayed (Fig 89).

To remove an additional "Bed area",

Click the box corresponding to the "Bed area" to be deselected in the "My Patients" column

The box disappears from the "My Patients" column (left) and is displayed on the "Other Patients" column (Right). The deselected "Bed area" will not displayed anymore.