WARNING
To properly use this medical device, read and comply with the Instructions for use, all supplements, and these release notes.
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Introduction

This document describes the VG3.0.1 software version for the Infinity® CentralStation Wide (ICS). The ICS VG3.0.1 software includes software enhancements, performance enhancements, and addresses limitations identified in preceding software versions.

Enhancements

Update Linux operating system

Infinity CentralStation has been validated with CentOS 7.

Tabular Trend Report

Users can print a patient tabular trend data report as follows:

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>HR</td>
<td>bpm</td>
<td>88</td>
<td>88</td>
<td>88</td>
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<td>88</td>
</tr>
<tr>
<td>SpO₂</td>
<td>%</td>
<td>97</td>
<td>97</td>
<td>97</td>
<td>97</td>
<td>97</td>
<td>97</td>
</tr>
<tr>
<td>PAP/dPAP</td>
<td>mmHg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MAP</td>
<td>mmHg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>STI</td>
<td>mmHg</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>STH</td>
<td>mmHg</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>SMM</td>
<td>mmHg</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>PI₂</td>
<td>mmHg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MII</td>
<td>mmHg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ABP</td>
<td>mmHg</td>
<td>20.290 (14.4)</td>
<td>20.290 (14.4)</td>
<td>20.290 (14.4)</td>
<td>20.290 (14.4)</td>
<td>20.290 (14.4)</td>
<td>20.290 (14.4)</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

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Export patient PDF reports to a file location

Users can export patient reports to a file location. They can also send reports to a file location, printer, or both. The patient must be assigned a **Patient ID** to export any patient reports.

![Configure report destination dialog](image)

**NOTE**
A feature to save reports to a USB drive (USB check box on the **Configure report destination** dialog) as described in the IFU is not available in the VG3.0.1 software release.

Scheduled patient reports

Users can schedule the following patient shift reports with durations of 2, 4, 8, 12, or 24 hours:

- **Patient Shift report**
- **Patient status report**
- **Graphical trend report**
- **Tabular trend report**

Scheduled reports can include all or specific patients in the Full Disclosure database.
Collated shift reports

When users select multiple scheduled reports, they can also choose to collate the reports into a single file.
Add picture to patient report header

Users can specify a picture file (such as the hospital’s logo) to display in the header of patient reports, except for the 12 Lead REST ECG report.
ICS host name on *Trends/Data* census page

Users can view the patient bed host CentralStation on the *Trends/Data* census page.

![Trends/Data census page](image)

Mixed Infinity and IEC alarm tones

Alarms can be customized to use either Infinity or IEC tones by individually selecting the tone for *High*, *Medium*, or *Low* alarm tones.

![System setup](image)

Vertical mouse movements

Infinity CentralStation supports vertically mounted displays with optional vertical mouse movements.

Support for 21.5" display HDMI port

Users can enable HDMI port connection on 21.5" displays.
**Multiple printer trays**

Users can select from multiple paper trays for default printer output.

![Printer setup screenshot](image)

**Minimum offline M300/M300+ volume**

The M300/M300+ minimum selectable alarm volume is set to 50% when the device is offline.

**New grouped parameter boxes**

Users can configure the new NIBP grouped parameter box with either ECG2 or ECG3.

**Enhanced M300/M300+ low battery icon indicator**

The M300/M300+ battery icon turns red when a single bar is shown and is framed in red when no power level bars are available.

**KVM switch kit**

The new Black Box KVM switch kit offering includes the extender and receiver.
Corrected issues

The VG3.0.1 software release resolves the following issues:

- High CPU usage on the Infinity CentralStation application.
- The **OK** button should highlight yellow when selected in the Customize layout dialog box.
- A pop-up does not display when the user exits without selecting the **Apply** or **Undo** button inside the **Trends/Data** application.
- ICS restarts when a USB bar code scanner is connected.
- The **Care unit** drop-down for **Full disclosure** is unreadable when accessing a remote ICS.
- The ICS Main audio pause banner comes down when latching alarm conditions go away.
- Incorrect label displayed for the **TOF Ratio** parameter.
- For **VentCentral** trends, the selected parameter window retains only 3 parameters in the selected list.
- For **VentCentral Setup**, the confirmation pop-up is not displayed during electronic rounds.
- Characters cut-off and buttons overlap in the **Trends/Data** and **VentCentral** screens.
- The source IP address of HL7 data should be displayed.
- The minute volume button is displayed as "Minute Vol" in the trends setup screen.
- The audio off banner still appears in cluster and BedView when M540 is discharged.
- Several grouped parameter boxes from the Customized menu are not displayed on the ICS main screen.
- Saved **Vent** parameter settings are not saved as default and displayed for new patients.
- The undo function does not work on the M300 Network configuration page.
- "**No bed assigned**" message is not displayed.
- Within the **ST complexes** screen, moving the **ISO point**: or **ST measurement point [ms]** leaves display artifacts.
- The **NIBP** parameter box is not cyan in the cluster view.
- The Agent, **SvO2**, and CO parameter box labels are incorrect.
- The **Parameter box** is represented by "??" for the **Warmer** parameter box.
- The Customized layout icon appears in the M300 bed viewport after the bed is discharged.
- The default bottom channel setting is not applied after discharge and re-admit.
- The **Apply** button remains highlighted even after the changes are applied.
- The **Full disclosure** census screen fails to display the lock icon.
- The **Biomed** or **Clinical password** is not validated after the password is changed.
- The **ST** parameter is available for selection on Channel 7 or Channel 8 of the telemetry defaults.
● The **Layout** name text box is not pre-selected when the **Main screen layout password** is **On**.
● BedView is not in sync with the main screen alarm flashing.
● The bottom channel cannot be customized using the touchscreen interface.
● The BedView **Vent Setting** page does not handle updates to vent mode properly; data is lost.
● ICS reset per PW150413 customer complaint.
● The IEC alarm off icon is not displayed in the cluster view.
● The system will not start with DVI cables and 21.5” new touchscreens connected.
● **Trends System setup** is not retaining the **Follow ICS** setting when set to default.
● Newer Edifier speakers will not connect via USB.
● On occasion, keyboard input is not accepted, and patient demographics cannot be entered.
● A **Full disclosure** data segment cannot be selected by clicking the right mouse button at the ending point.
● ECG export does not appear in the **Full disclosure** report drop-down selection when configured.
● The ICS hardware watchdog would not always trigger when a hardware issue was detected. This results in an unresolved frozen main screen.
● The **Biomed** screen could be blank when opened. This occurs when there is a connection error to the database, resulting in unsaved full disclosure.

**Hardware, software compatibility and labeling**

**Software compatibility**

The VG3.0.1 software has been validated with the following devices and software versions:

- IACS VG7.1
- Delta VF9.1 and VF10.1
- Kappa VF9.1 and VF10.0
- Infinity Explorer VF9.1.1 and VF10.1
- M300 VG2.3.1
- M300/M300+ VG2.4
- Infinity Gateway VF7.2 and VF9.0
- M540 (wired) VG7.1
- M540 (wireless) VG7.1
Known limitations

The VG3.0.1 software release has the following unresolved issues:

- When the language in ICS is set to Serbian, the date text is incorrectly shown in Cyrillic.
- The reference ECG lead is included in the Caliper report without the measurement being saved.
- Anesthesia agent waveform colors may not match the bedside waveforms. Opening and closing the bedside will refresh the main screen and update the waveform color.
- Evita XL ventilator alarm messages will not generate on the BedView if the Delta experiences a reset while the device has an active alarm. The alarm tone will still annunciate from the CentralStation and ventilator.
- The waveform scale does not update to customized settings when Follow ICS is selected. The waveform scale will retain the bed settings.
- In some instances, only a partial temperature parameter box will display an alarm condition on the main screen. The monitor BedView displays the full temperature alarm.
- Relabeled temperature parameters are not displayed on the main screen when using Customized layouts.
- The parameter order is not applied if a parameter is dragged over another parameter in the Customized layout setup. When this occurs, use the Up and Down arrow keys.
- The Customized layout is retained when a bed is removed and reassigned.
- The Paw parameter box is not displayed when using the Customized layout.
- Within the Trends graph, the lower scale value of the temperature graph does not auto scale correctly in some instances.
- When the Split screen is toggled On and Off within the Main screen layout, the layout will change even though the Apply button has not been selected.
- The M540 wireless icon is not displayed when viewing an M540 in Surveillance mode. BedView will display the wireless icon.
- When changing the Main screen layout, the user is notified that a bed no longer included in the layout will no longer be monitored on the ICS. The user is not notified that the Notes and any pending recordings will be deleted. The user should wait until pending recordings are complete, and capture any Notes if needed.
Training recommendations

The VG3.0 Instructions for use apply to VG3.0.1 and can be downloaded from Service Connect. Dräger, the manufacturer of Infinity CentralStation, requires that clinicians as well as those responsible for setting up and servicing devices read all Instructions for use manuals and supplements prior to employing the system in the care of patients.

If needed, Dräger will provide product training specific to the enhancements and corrected issues referenced in these release notes, enabling your organization to fulfill the requirements of local regulations. Contact your Dräger representative for details.

Trademarks

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These release notes only apply to
Infinity® CentralStation Wide VG3.0.1
with the Serial No.: [serial number]
If no Serial No. has been filled in by Dräger, these release notes are provided for general information only and are not intended for use with any specific machine or unit.
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