

# cvi42®

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v.6.3.1 (4801)

Release Notes

## What's New in Version 6.3.1

### AI-enabled Coronary Plaque Analysis

- AI-automated coronary lumen and wall segmentation
- Per-lesion, and per-vessel analysis of calcified, non-calcified, and low-attenuation non-calcified plaque with adjustable thresholds
- Re-modelling index assessment
- Improved coronary reporting for coronary stenoses and plaque characterization

### Mitral Valve

- Automated landmark detection for mitral valve center and LV apex
- Automated mitral annulus contouring

### Report

- All report sections are now included in DICOM SR export
- Improved templating tools in the Summary section
- Ability to download XML and DICOM SR formatted files

### cvi42 | Web Viewer

- Review processed TruPlan cases and reports away from the TruPlan workstation using the Web Viewer
- Smart layout to review original images and secondary captures created using TruPlan

## Resolved Issues

The following list contains resolved usability related issues, in addition to all other internal issues resolved during the product development process.

Number	Summary
<b>CV-28705</b>	cvi42   Strain: cvi42 may crash when running Strain analysis with specific contours
<b>CV-28760</b>	cvi42   Report: HL7 send and CSV export fail when Template Findings is empty
<b>CV-29516</b>	cvi42 application crashes on open for a specific study
<b>CV-29547</b>	cvi42   Vascular: Selecting the Ruler may cause cvi42 to hang.
<b>CV-30042</b>	cvi42 hangs trying to access Tissue T1 mapping module using specific study and series
<b>CV-30090</b>	cvi42   CORE CT: Undoing a deleted ROI measurement causes a crash

<b>CV-29491</b>	Tissue SI: Hide threshold exclusion contour doesn't hide more than 1 contour
<b>CV-26945</b>	cvi42 4D Flow: Specific Philips studies do not sort correctly
<b>CV-28049</b>	cvi42 4D Flow: Study may unload after saving the Secondary Capture image in specific studies
<b>CV-28515</b>	cvi42 CORE CT Calcium: Restoring workspace in Calcium module results in an application error
<b>CV-28867</b>	For a remote DICOM node setup, "Restricted to Role" only works for Q/R and not for Send
<b>CV-28999</b>	cvi42 Report: Final report and final addendum have identical DICOM content date and DICOM content time
<b>CV-28962</b>	Non-alphanumeric characters set in the password set in the installer results in login failure
<b>CV-29061</b>	SAX module: Contour detection fails on studies acquired with PhotometricInterpretation in colour
<b>CV-29062</b>	Web Configurator and Web Client do not support special characters in passwords
<b>CV-29507</b>	Overlays in Tissue SI and 2D Flow may disappear under specific settings unless image is moved
<b>CV-29489</b>	Tissue SI: LGE viewer LAX reference frame unloads when study map is updated
<b>CV-29490</b>	Video export error if export folder name has umlauts
<b>CV-29651</b>	cvi42 Aortic Valve: Perpendicular line contour measurements may not be consistently visible
<b>CV-29661</b>	Importing an ADAS3D floating license does not work
<b>CV-29806</b>	cvi42 Report: Schlich BSA formula changes from patient sex are not saved
<b>CV-30383</b>	cvi42 CORE CT Calcium: Exporting calcium slices while the series list is open causes the process to freeze at 0%
<b>CV-30558</b>	Turning on Image Histogram causes infinite 'Invalid Image format' pop-up loop in viewer for a secondary capture image
<b>CV-30652</b>	HL7 ORU is sending UID in OBR.33 instead of the secondary reporter

<b>CV-28061</b>	Logging in to admin port on enterprise server is allowed with an expired license
<b>CV-28069</b>	Unexpected error asking user to rebuild database when server can't connect to database
<b>CV-28323</b>	cvi42   MPR: "Save Cine Images (Secondary Capture)" option does not work
<b>CV-28713</b>	Series in MPR frames are rotated images 180 degrees in Coronary, Vascular, and Femoral modules
<b>CV-28869</b>	cvi42   Report: Trans-Septal section header remains present even when there is no data
<b>CV-28998</b>	Study list: Column widths in the study list are not saved between sessions
<b>CV-29798</b>	cvi42   2D Flow: Background Correction ROI is not propagated between phase and magnitude images
<b>CV-29797</b>	Workspace names in the series pane do not support non-Latin1 characters
<b>CV-29808</b>	Web Configurator: The option to use TLS/SSL connection cannot be un-toggled

## Known Issues

Number	Summary
<b>CV-61</b>	Changing the windows display scaling while cvi42 is running results in an erratic user interface  <i>Workaround: After changing the system Windows Display Scaling, the cvi42 client should be restarted to correctly apply the changes.</i>
<b>CV-1467</b>	Flow 2D: Contour detection with threshold mode is erroneously enabled when flow colour overlay is active  <i>Workaround: Turn off flow colour overlay when defining the vessel contour to better see vessel borders</i>
<b>CV-2536</b>	cvi42   Quantitative Perfusion: Refresh lag on Rest and Stress viewers in module when multiple users are reading the same study simultaneously  <i>Workaround: Avoid multiple users opening the same study in Quantitative Perfusion module at the same time</i>
<b>CV-6970</b>	cvi42 does not appear optimized on some high-resolution displays.  <i>Workaround: Adjust the system display resolution or adjust the Display Scaling as needed</i>
<b>CV-10957</b>	Certain workflows may result in patient data automatically synced between cvi42 and Report

	<i>Workaround: The user can update values via entering in the cvi42   Patient Data module or manual editing in cvi42   Report</i>
<b>CV-11598</b>	Flow 2D module: Auto Segmentation Flow may result in poor contours depending on image or acquisition quality  <i>Workaround: Deselect and select the contour again, then press "Segment Flow Contour" to adjust the contour to the correct anatomy</i>
<b>CV-13057</b>	Tissue SI: LAX reference lines appear incorrectly sometimes in second LAX viewer  <i>Workaround: Load a SAX series into the T2 frame or navigate to a different phase/slice</i>
<b>CV-14490</b>	cvi42   4D Flow: Contour detection is not triggered after re-activating "auto-contouring" options  <i>Workaround: Activate one of the double-oblique cursors to trigger the contour detection or adjust the flow plane position</i>
<b>CV-16643</b>	cvi42   4D Flow: Mac Only - Region Growing is not activated using keyboard shortcut cmd+g in Segmentation Page  <i>Workaround: Use the context menu: Clipping - 3D Region Grow Clip to activate region growing.</i>
<b>CV-17009</b>	Enable Indication functions in CVI cause protocol save button to be greyed out  <i>Workaround: None</i>
<b>CV-24827</b>	Tissue T1/T2: The number of skipped phases option prioritizes cvi42 series classification to remove phases over user-saved protocols or workspaces  <i>Workaround: Users can visually identify the number of phases that should be skipped, and adjust to the desired setting.</i>
<b>CV-25654</b>	cvi42   Quantitative Perfusion: Users may experience inconsistent results when using different contrast agents while selecting the Pre-bolus option  <i>Workaround: No workaround.</i>
<b>CV-26436</b>	Installers might take longer to present the user with the UAC dialogue  <i>Workaround: No workaround.</i>
<b>CV-26627</b>	MRA MIP radial reconstructions may not combine properly to allow smooth visualization  <i>Workaround: The user can manually re-compose slices that have been interleaved incorrectly.</i>
<b>CV-29188</b>	Report Module: Add csv option for exporting the text scientific report  <i>Workaround: None</i>
<b>CV-29352</b>	cvi42   Strain: Strain analysis changes polar map results from SAX due to insertion point movement  <i>Workaround: User can Add to Report from Function SAX after running Strain analysis to ensure consistent results</i>
<b>CV-29660</b>	Allow user to compose manual series with inconsistent FrameofRefUID given they are displayed a warning  <i>Workaround: No workaround.</i>
<b>CV-29722</b>	cvi42   CORE CT Calcium: Allow studies with axial FOV $\leq 256$ to be classified as Calcium series and be server-side processed and upgrade to series cls version x.xx

	<i>Workaround: Client side processing will produce results.</i>
<b>CV-30089</b>	<p>Tissue T1/T2: Inconsistent font size in polar map values may cut off results when there's a large number of slices and segments</p> <p><i>Workaround: The user can opt to use less segments when displaying polar map results. The results are also shown when mousing over segments. Hiding the side panels or resizing the Window may fix font sizing. When using cvi42   Report, polar maps are visible and consistent font size, and readable.</i></p>
<b>CV-30202</b>	<p>Window center/width of some images does not match DICOM after Siemens scanner software upgrade to XA61 from XA51</p> <p><i>Workaround: The user can manually adjust windowing as needed.</i></p>
<b>CV-30203</b>	<p>cvi42   Report: Images sent to the Report may break when ProgramData path is configured incorrectly</p> <p><i>Workaround: Sites should ensure effective installation and configuration by following the supplied user documentation.</i></p>
<b>CV-30290</b>	<p>cvi42   Report: LV CI normal range ruleset uses the wrong citation</p> <p><i>Workaround: The user can manually change the citation.</i></p>
<b>CV-30382</b>	<p>cvi42   4D Flow: Some Siemens studies may have inconsistent phase direction, pathline display, and/or valve tracking</p> <p><i>Workaround: Users may flip the flow direction to improve phase direction or pathlines, however the results may be inconsistent and dependent on the series.</i></p>
<b>CV-30780</b>	<p>cvi42   Report: Custom measurements are not listed in the order they were created</p> <p><i>Workaround: The user could manually reorder their expected measurements when reviewing the report.</i></p>

## External Libraries – Copyright and Licensing Requirements

Open-source libraries can be found on the [Circle website](#). It can also be found as Open\_Source\_Notices.pdf in the install directory of cvi42.

## Support

For further information on installing/exchanging the dynamic libraries please contact Circle Cardiovascular Imaging support.

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