

CVI42®

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

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

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

Known Issues

Number	Summary
CV-61	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>
CV-1467	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>
CV-2536	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>
CV-6970	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>
CV-10957	Certain workflows may result in patient data automatically synced between cvi42 and Report

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

	<p><i>Workaround: Client side processing will produce results.</i></p>
	<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>
CV-30089	<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>
CV-30202	<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>
CV-30203	<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>
CV-30290	<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>
CV-30382	<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>
CV-30780	<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.

Phone: +1 (403) 338-1870

E-mail: support@circlecv.com

Circle Cardiovascular Imaging Inc.

Suite 1800, 707 - 8th Ave SW

Calgary, AB, T2P 1H5

Canada

Phone: +1 (587) 747 4692

Website: circlecvi.com

At the Heart of
IMAGING