
MeVis Medical Solutions continues its commitment to provide customers with the most comprehensive, clinically relevant solutions for the evaluation of patient anatomy and pathology. MeVis Vitrea Advanced is a scalable, multi-vendor medical imaging software system used to deploy a variety of MeVis clinical applications for dynamic MR. MeVis Vitrea Advanced provides the clinician with a broad set of viewing and analysis tools to annotate, measure, and output selected image views or reports.

This release is intended to be integrated into the Vitrea Enterprise Suite (VES) by installing it on the Vital Image Management System (VIMS) and the advanced application servers. Only a 64-bit version of MeVis Vitrea Advanced is provided. These release notes apply to the following software versions:

MeVis Vitrea Advanced, 64-bit, build 119098

MeVis Vitrea Advanced

The MeVis Vitrea Advanced provides the following features:

General Reading: MeVis Vitrea Advanced is a medical imaging software platform that allows processing, review, and analysis of multi-dimensional digital images acquired from a variety of medical imaging modalities. MeVis Vitrea Advanced offers flexible workflow options to aid clinicians in the evaluation of patient anatomy and pathology. It provides a broad set of viewing and analysis tools to annotate, measure, and output selected views or reports.

Dynamic Review: The Dynamic Review feature enables physicians to review dynamic MR imaging studies by providing functionality for visualizing and assessing images obtained at different time points. The Dynamic Review feature registers serial images to minimize the impact of patient motion and provides a means for visualizing changes in image intensity over time, using graphical representations and color maps overlaid on the source image. It performs other common, user defined post-processing functions such as image

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subtractions, multi-planar reformats, and maximum intensity projections.

New User Interface: Parts of the user interface have been adapted to the look and feel of the VES. This includes colors and dialog backgrounds as well as keyboard shortcuts and mouse actions. Moreover some functionality not needed for the integration has been removed from the user interface. For example some menu entries have been removed and only level 3 of the side panel is available. The available functionality differs for non-admin and admin users, so the latter has the possibility to maintain the system.

VES Integration: For the integration into the VES the tellApp interface of the MeVis Vitrea Advanced system has been extended, for example to control the size of the application window and to enhance the user management. Especially the defer Task

command has been reworked to ensure that a currently open dialog is handled correctly. Furthermore tellApp now supports more error codes to return the current state of a study.

Client/Server Integration: The MeVis Vitrea Advanced system enables the system to receive and transfer image data over the network. The image data can be displayed from a server or a client personal computer based on dedicated protocols.

Silent Installer: To enable the integration of the MeVis Vitrea Advanced installer into another installer a silent mode with several options has been introduced. It is possible to fully control the database setup, to define where the application shall be installed and how the service center shall be set up. In addition some error codes have been introduced to indicate if a problem occurred and which.

We have made the following updates:

- ADS has been updated (Bugs 47509, 47543, and 47558)
- Hanging icons are now stored in the installation folder and can easily be extended for OEMs (47501)
- The image list has been enhanced (47754/47565)
- Paging behavior has been re-worked (47241/48103)
- Added Auto-stacking functionality (47535)
- It is now possible to set special features via tellApp (47537)
- Data from SECTRA PACS handles duplicate localizers (48368)
- Workspace is working after changing the hostname of a client or server (48435)

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- Updated ADS and sortPart.config (49606/49802/50054/50089)
- Usability fixes in the pie menu, global toolbar (47993)
- Fix known crash on demo laptops (50029)
- Liver Motion Correction DICOM tags update – This is an important fix for motion corrected data. It ensures that the curve parameters do not need to be updated by the user while using the curve viewport. (47428)
- Update of the scrolling behavior in the side panel (48252)

Important Note for Upgrading Workspaces:

1. Install new software version (build no. \geq 109475)
2. Start the application
3. Enter 'admin' as user name and 'simsalabim' as password.
4. press ALT-W -> the workspace setup panel opens
5. Create a new workspace by pressing 'Add'
6. Enter a new name for the workspace
7. Enter a dummy name for the workspace path.
8. Use the database name of the old workspace.
9. Press 'Upgrade DB for Workspace'
10. Press 'Save' and 'Quit'
11. Close the application
12. Go to registry and change the name of the newly created workspace to the old workspace name
13. Delete old workspace settings from registry.
14. Log into the software and it should work as expected

Known Limitations for the Dynamic MR feature:

General Limitations:

50417 Paging can lead to not completely filled inspectors.

When paging rapidly, under rare circumstances some inspectors are not filled and remain blank.
Solution: Drag the images you want to review to the inspectors manually.

45729: Truncated data sets after import (intermittently).

Since there is no end-of-transmission indicator in the DICOM standard, the application starts processing of the received data after a certain amount of time has passed in which no new data was received. If after that timeout, new data for the study is received, an additional data set containing the old and new data is created. Both data sets are available to the user. The user can clearly distinguish the two data sets by the information displayed for the data sets. Therefore, after processing is completed, the user has the full information available.

Solution: Be aware that if DICOM data comes in very slowly, you might encounter extra image sets available that are subsets of the final image sets.

Annotation Limitations:

41067 3D angular measurements may be misinterpreted and considered wrong when viewed in single 2D views.

When creating angle measurements, it is possible to create out-of-plane measurements that show up visibly as their in-plane projection. The software shows the actual three-dimensional angle between the two lines of the double line annotation. This may look confusing, as this angle may be considerably larger than the angle seemingly visible in the 2D projection.

Solution: Keep in mind, that displayed angles might be out-of-plane and verify this by changing multi-planar reformat of the dataset if in doubt.

50247 Duplicates of Angle Annotation are named as original.

If you duplicate a Double Line (Angle annotation), its duplicate is initially named the same as the original.

Solution: As soon as you change any aspect of the copy, it gets a new name. As the duplicate will need to be adjusted anyway to do the second measurement, no mix-up can occur.

Printing Limitations:

40286 Annotations are partly cut off in printout.

When printing, some annotation may be cut off by a few pixels which may result in misinterpretation of actual length or included pixels in case of ROIs.

Solution: Do not use printouts for any type of diagnosis. Always refer to the original images, saved and reviewed snapshots and/or approved reports.

49231 Crash by selecting remove image from page in the Print Tool. If multiple images are removed from a large layout in the print tool, it is possible that Dynamic MR crashes.
Solution: Remove images one by one in this case. No data is lost in the crash.

50264 Printing of annotation labels in original slices.

When printing slices from original images from the image list, it is possible, that accompanying labels like the angle are not printed.
Solution: If you want to print annotations and their values, use the snapshot tool. Snapshots print correctly.

Known Limitations affecting Service Personnel:

41027: Deleted directory not restored automatically.

When manually - from outside the application - deleting a directory required by the application, all operations fail that require this directory. The directory itself contains a clear warning that the directory must never be deleted manually.
Solution: Do not delete data in the workspace directory or in the application installation directory.

47525 In order for a hanging to update correctly, hanging layouts should not have the same name.

Hanging protocol changes will not be saved correctly if the names of the layouts are the same.
Solution: When creating multiple hanging layouts for a single protocol, the names of each hanging should be unique.

50178 Dynamic MR may crash when processing studies as new that contain a finding folder. *This feature is only enabled when logged in as an administrator.*

Solution: Delete the Study and re-import it if necessary.

Not enabled in the Dynamic MR ADS:

39040 MIP Result Creation Processor crashes if applied to 2D data. *This feature is not enabled in the default Vitrea Advanced Dynamic MR ADS.*

This processor needs three-dimensional data to operate and crashes if a rule is configured that causes it to run on two-dimensional data.

Solution: No such rule is contained in the default configuration. When changing Advanced Processor Rules, make sure that there is no rule configured for the MIP Result Creation Processor that causes it to run on 2D data.

47503 It is not possible to open the pie menu of the volume renderer inspector after a VOI has been created for an image in an alternator. *This feature is not enabled in the default Vitrea Advanced Dynamic MR ADS.*

Drawing a Volume of Interest (VOI) on an image synchronized with a Volume Rendering may not allow the pie menu to be opened.

Solution: To open the pie menu, remove the VOI on the image.

50089/50215 PIR processing disabled by default

This feature is not enabled in the default Vitrea Advanced Dynamic MR ADS.

Due to possible crashes and the possibility of a stalled inbound processing pipeline, PIR processing is turned off by default.

Solution: If you have changed patient information for a patient, make sure to delete the patient from the system and re-send with the updated information.