



SecurView® DX/RT Workstation 8.4

Release Notes

MAN-04424 Revision 004



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1. Introduction

The Release Notes provide a listing of New Features, Problems Corrected, and Known Issues in the most recent release of the SecurView® DX/RT Workstation software. The 8.x releases include:

Version	Release Date
8.1.1	October, 2012
8.2	May, 2013
8.2.1	August, 2013
8.3	November, 2013
8.4	April, 2014
8.4.1	February, 2015
8.4.2	May, 2016

1.1. Removal of CAD Score

When displaying ImageChecker® CAD results, SecurView workstations no longer include the CAD Score as one of the LesionMetrics™ results. An upgrade to SecurView software 8.2 or later is required for Cenova™ server customers who are upgrading to Cenova server version 2.2 or later, or for new Cenova server customers, in order to ensure compatibility and full feature support.

2. Notes for Version 8.x

- ▶ 2.1. New Features in 8.4.2
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- ▶ 2.14. Known Issues in Version 8.4

2.1. New Features in 8.4.2

2.1.1. Unique Device Identifier Information (UDI)

The About tab displays UDI information.

2.2. New Features in 8.4

2.2.1. Support for DICOM 6000 overlays

Annotations and markings contained in a DICOM 6000 overlay can now be displayed on SecurView workstations. For images containing a DICOM 6000 overlay, SecurView software creates an internal copy of the image with the overlay burned in. When the original image is displayed on the workstation, the user may toggle to the image containing the annotations by using the stacking indicator.

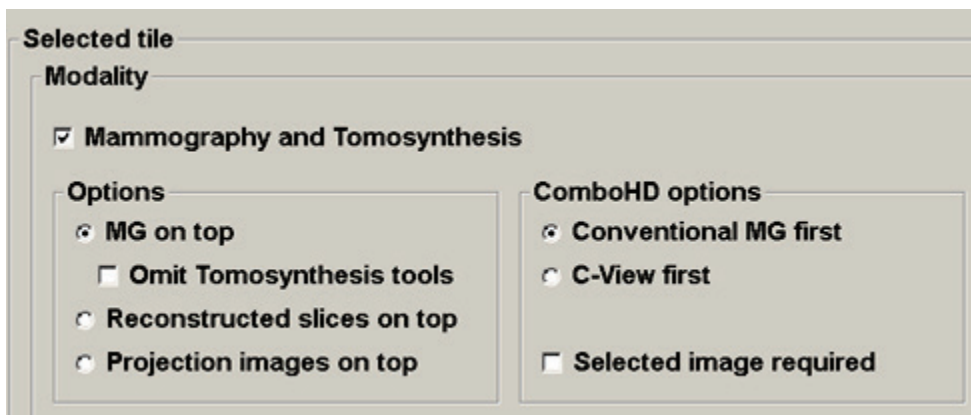
2.2.2. CLAHE Image Enhancement

A new configuration setting allows Contrast-limited Adaptive Histogram Equalization (CLAHE) enhancement to be applied to images. CLAHE operates on the whole image and results in enhanced contrast and ability to better visualize the skin line. It is valuable for users who have been accustomed to using a workstation that supports CLAHE enhancement, such as syngo® MammoReport from Siemens.

 **Note:** CLAHE enhancement is not applied to GE digital mammography images or Hologic tomosynthesis images.

2.2.3. Hanging Protocol Enhancements for Tomosynthesis Studies

The Hanging Snapshots configuration has been enhanced to provide more flexibility for creating ReportFlows that can be used for Combo, ComboHD, TomoHD, and conventional mammography studies. It provides an option for ComboHD cases that determines whether conventional MG or C-View™ 2D images are presented by default. In addition, a new option allows for display of conventional MG and C-View 2D images without display of the tomosynthesis tools by using the 'Omit Tomosynthesis tools' check box. When this is selected, the stacking indicator can be used to toggle between the images. These new hanging protocol enhancements allow for a seamless path for customers who are transitioning to the use of C-View 2D images. ReportFlows created on earlier versions can be imported to version 8.4, and the new Hanging Snapshot configuration settings will be automatically applied to ensure consistent behavior.



The screenshot shows a configuration window titled "Selected tile". Under the "Modality" section, the checkbox "Mammography and Tomosynthesis" is checked. Below this, there are two columns of options. The left column, titled "Options", contains three radio buttons: "MG on top" (selected), "Omit Tomosynthesis tools" (unchecked), "Reconstructed slices on top", and "Projection images on top". The right column, titled "ComboHD options", contains two radio buttons: "Conventional MG first" (selected) and "C-View first", and a checkbox "Selected image required" which is unchecked.

2.2.4. Enhancement to Right Size Behavior

The behavior for the Right Size mode has been enhanced to eliminate certain images from consideration as the “scaling master” used to determine optimal sizing. This results in performance that is more consistent when Right Size is selected as the user preference for Image Size Mode. This is particularly important when used with the improved double tiling behavior introduced in version 8.2.1. Images in double tiling mode will be sized to fill out the viewport optimally when displayed using Right Size mode.

2.2.5. Option to choose legacy behavior for double tiling mode

Changes were introduced in version 8.2.1 to improve the image sizing behavior in double tiling mode. Version 8.4 includes a new user preference for users who preferred the behavior prior to version 8.2.1. The new options are located on the User Preferences Image Presentation tab under the ‘Adjust Image Size in Double Tiling’ section.



2.3. New Features in 8.3

2.3.1. Integration with MultiView™ MM to view multimodality images

Beginning with version 8.3, SecurView software supports integration with Hologic MultiView MM for viewing breast ultrasound and MR images. The Patient Lists for both SecurView workstation and MultiView MM will represent a master list of all patients from both applications, so that workflow can be driven from either Patient List.

2.3.2. Display Imaging Biomarkers in Hanging Protocols

The ReportFlow configuration screen includes a new option to allow display of the Imaging Biomarkers dialog, which includes Quantra™ results, as a ReportFlow step.

2.3.3. User preference for Quantra results display

A new user preference is available to indicate whether Quantra results are displayed per subject, per breast, or per image by default when the Imaging Biomarkers dialog is displayed.

2.3.4. New Hanging Snapshots are public

When hanging snapshots are created in the ReportFlow configuration screen, they are assigned the status of ‘public’ by default.

2.4. New Features in Version 8.2.1

2.4.1. New Hanging Snapshots Option for Tomosynthesis Studies

An additional check box is now available for use in conjunction with the option to select which image in a tomosynthesis combination view is displayed on top. When the

option “Leave tile empty if top image is missing,” is selected, the tile will be empty if the configured top image is not present for that view. When used together with the option to “Omit Hanging Snapshot if tile is empty,” this allows the same ReportFlow to be used for different study types. The addition of this check box corrects a limitation that was introduced in version 8.2 where snapshots that were used for both 2D and tomosynthesis combination views were not omitted if tomosynthesis images were not present.

2.4.2. Updated Hanging Configuration Option

The ‘Alternate 2D images on top’ hanging configuration option has been renamed ‘C-View images on top’.

2.5. New Features in Version 8.2

2.5.1. Improved Configurability for Hanging C-View 2D Images

A new option has been added to the Hanging Snapshots configuration tab so that when a tomosynthesis study is displayed in a ReportFlow, the conventional 2D image, the C-View 2D image, the Reconstructed slices, or the Projection images can be selected to be displayed on top.

2.5.2. Full Support for Sizing Modes for Tomosynthesis Images

The same sizing modes that can be applied to 2D images, whether as a user preference or as a dynamic selection during review, can now be applied to tomosynthesis images. For combination studies, image registration between 2D and tomosynthesis images is maintained regardless of the selected sizing mode.

2.5.3. Faster Throughput for Tomosynthesis Reconstructed Slices

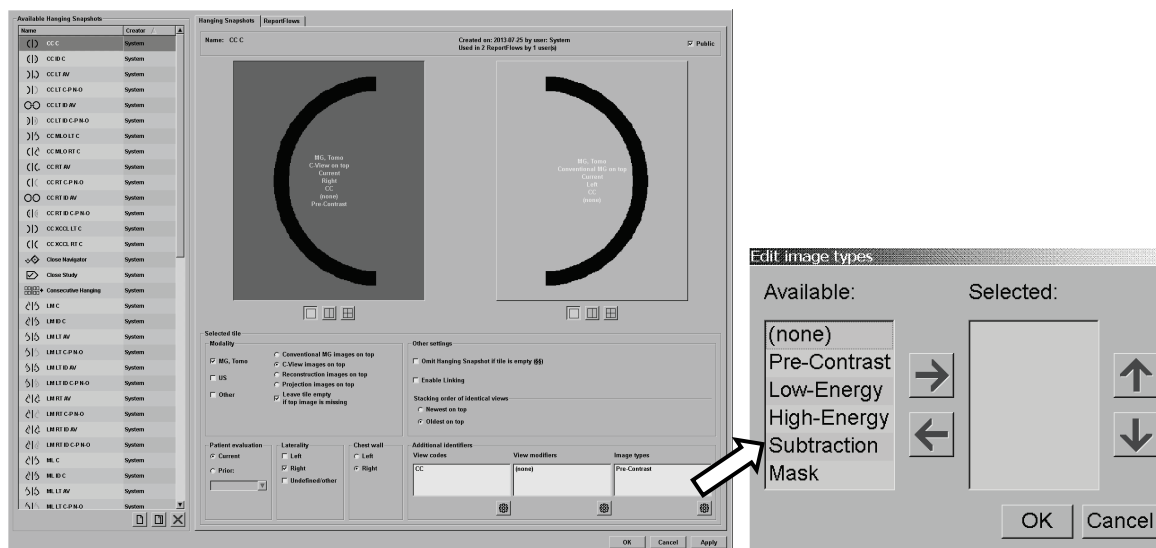
The processing of tomosynthesis reconstructed slices received in DICOM Breast Tomosynthesis Image (BTO) format has been optimized. After DICOM images are received, the processing time to prepare them for presentation has been reduced, allowing for faster overall throughput.

2.5.4. Enhanced Support for Sizing Modes in Double-Tiling Image Presentation

In earlier versions, double-tiled images were sized according to Fit to Viewport sizing for single tiling mode. This sometimes resulted in the full image not fitting in the viewport. Now, the sizing mode for double-tiled images can be selected from Fit to Viewport, Same Size, Right Size, or True Size modes. For users who use double-tiling mode in their ReportFlows, it is recommended that Right Size be selected as the Image Presentation user preference in the Sizing Group. This will ensure that images are displayed at the maximum resolution that will fit in the viewport.

2.5.5. Support for Hanging Contrast-Enhanced Digital Mammography Images

New configuration options support Contrast-Enhanced Digital Mammography (CEDM) images. "Image Type" has been added to the Additional identifiers section of the Hanging Snapshots configuration tab. This allows for configurable hanging of images acquired as part of a CEDM procedure.



2.5.6. Support for Tomosynthesis Reconstructed Slices as CT Image

Tomosynthesis reconstructed slices received as DICOM CT Image objects are supported. Once they are present on the workstation, these images are treated equivalently to tomosynthesis reconstructed slices received in other formats.

2.5.7. Change in Fit to Viewport Sizing for Images Smaller than 5MP

The behavior of Fit to Viewport sizing mode has changed for images that are smaller than the viewport when displayed in single-tiling mode on a 5MP display. In earlier versions, such images were magnified to fit into the viewport. Now these images are displayed at native resolution without magnification. This applies to images such as those from GE Senographe[®] mammography systems.

2.5.8. Improved Navigation in Patient List

When the Patient List is displayed, the user can advance to a desired patient by typing the first several characters of a patient's name. In earlier versions, this feature only worked with the first character of the patient's name.

2.5.9. Search on PACS Enhancements

A Workflow user preference has been added so that when the Search on PACS dialog is displayed, the default field to search on is configurable to either Patient ID or Patient Name.

A new field has been added to the Search on PACS dialog so that it is now possible to search on Patient Birth Date.

2.5.10. Ability to Select Default LUT for Images with Multiple LUTs

For images that identify multiple VOI LUTs (Value of Interest Lookup Tables), it is now possible to select the default LUT for initial display through a configuration file setting. This applies to images such as those from Hologic DigitalNow™ film digitizers or GE Senographe mammography systems. Please contact your Hologic Field Engineer for assistance in configuring this option.

2.5.11. New Configuration Option for Cursor Tool Behavior

A Tools and Overlays user preference has been added that determines the cursor tool behavior when advancing through patients in a session. The setting determines whether the default cursor tool is used when advancing from one patient to the next, regardless of whether the tool had been changed during review, or whether the currently selected tool persists.

2.6. New Features in Version 8.1.1

2.6.1. MPE Processing

Version 8.1 provides Mammography Prior Enhancement™ (MPE), a licensable feature that allows for advanced processing of prior GE images. MPE software is designed specifically for use with screening views (i.e., CC and MLO views) from prior exams originating from GE Senographe Full-Field Digital Mammography (FFDM) systems. MPE-processed images are intended for comparison purposes only and cannot be used for primary diagnosis. For information on purchasing an MPE license, contact your Hologic Account Manager.

2.6.2. Improved Tomosynthesis Scrolling Performance

Version 8.1 offers improved tomosynthesis scrolling performance. The speed of scrolling the first time through a tomosynthesis dataset is now equivalent to the speed of the subsequent scrolls through the dataset.

2.6.3. Tomosynthesis Cine Mode Improvements

In version 8.1, tomosynthesis Cine mode has been enhanced so that the speed can be selected with greater granularity. The user preference for Cine Speed under the Image Presentation tab can now be selected in frames per second. In addition, the cine speed the first time through a set of reconstructed slices will be the same as for subsequent passes through the slices. Note that the achievable scrolling speed is hardware dependent. It is recommended that any workstation used for tomosynthesis review have at least a Dell T7500 computer and the Windows 7 operating system. For information

on upgrading your workstation to the latest hardware, contact your Hologic Account Manager.

2.6.4. Local Cine Mode Enhancement for Tomosynthesis Scrolling

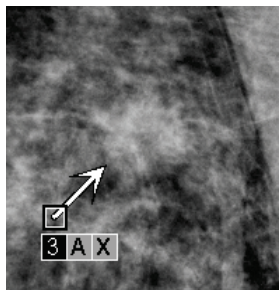
The Local Cine mode for tomosynthesis scrolling, which can be activated by clicking and holding the Cine button on the keypad or in the user interface, has been enhanced. You can now move the center slice for Local Cine mode interactively while Cine mode is active by using the scroll wheel.

2.6.5. Arrow Marking Tool

Version 8.1 includes a new tool that allows you to mark a region of interest with an arrow. Once you mark the region, SecurView workstations allow you to enter an optional description. The arrow tool is an addition to the existing marking tools (Ellipse, Freehand, and Measurement). The Arrow tool appears on the main toolbar and the Pie menu. As with other marking tools, an arrow annotation can be captured in a GSPS object or Secondary Capture image for transmission to external systems.



Arrow Icon



Arrow Marking

2.6.6. Application Event Logging

Version 8.1 can create a log file that captures key application level events. Customers may access these logs to monitor activity on the system or to help demonstrate compliance with HIPAA or other patient privacy policies. An Administrator or Service user can configure application event logging through the Settings tab on the Administration screen. Refer to the User Guide for details on the format of the Application Event log file.

2.6.7. Active Directory Authentication

Version 8.1 provides the option of user authentication via Active Directory so that passwords and user accounts can be managed in compliance with secure LDAP. When you add or edit a SecurView user profile using an administrator account, version 8.1 gives you the option to indicate that a user is an LDAP user that must be authenticated via the Active Directory server.

2.6.8. Automatic Logout Enhancement

A new configuration file setting in version 8.1 allows a local setting to override the user-defined automatic logout time. This can help protect patient privacy in a setting where a workstation is located in a public area by ensuring a fixed logout time, regardless of the individual user setting. For instructions on configuring your workstation, contact your Hologic Field Service Engineer.

2.6.9. Patient List Sorting

In version 8.1, the feature for sorting the Patient List by clicking on the column headings has been improved. The secondary sort now uses the previous sort column as the sorting criterion. For example, to see all the patients whose studies originated at a particular institution sorted alphabetically by patient, first click on the Name column to sort by patient name, then click the Institution column.

2.7. Problems Corrected in Version 8.4.2

2.7.1. Double-click to Single Tiling Behavior with Stacked Images

In previous versions, stacked images showed the top time point after the user scrolled to a different time point and then double-clicked on the image. This problem has been corrected.

2.8. Problems Corrected in Version 8.4.1

2.8.1. Sizing of C-View 2D and tomosynthesis images when compared with conventional 2D images

A problem has been corrected in the sizing of C-View 2D images or tomosynthesis reconstructed slices when used as the scaling master in Right Size, Same Size, or True Size mode. In this scenario, the C-View 2D images or tomosynthesis reconstructed slices displayed smaller than expected. The problem was most evident when C-View 2D images from a current TomoHD procedure were displayed with prior conventional 2D images.

2.8.2. Measurements on C-View BTO images

In earlier versions of software, measurements made on C-View 2D images that were received in BTO format differed from the measurement of the same feature on the corresponding conventional 2D image by a factor of 7%. This has been corrected.

2.8.3. Invalid Implementation Class UID

In version 8.4, SecurView workstations used an invalid Implementation Class UID that resulted in the inability of certain PACS to accept DICOM associations from SecurView workstations. This has been corrected.

2.8.4. Database maintenance error causes performance degradation

A database maintenance parameter has been changed to prevent an “out of memory” error in the auto-vacuum process. Failure of this process to complete can result in performance degradation.

2.9. Problems Corrected in Version 8.4

2.9.1. Patient list re-sorted upon arrival of new data

A problem was introduced in version 8.2, which caused the patient list to be re-sorted when new data arrived at the system. This has been corrected.

2.9.2. Lightbox crash due to corrupted SCO tomosynthesis images

A number of cases have been reported where tomosynthesis images stored as SCO have been corrupted after being exported from PACS. Specifically, the Series Number is incorrect so the Pixel Spacing information is not found. In previous versions, this resulted in a lightbox crash. In 8.4, the system will not crash; however, the corrupted tomosynthesis images will not be viewable.

2.9.3. ReportFlow step not skipped when Secondary Capture images present

In version 8.2, a problem occurred if a ReportFlow step was configured to display “MG, Tomo” with “Reconstruction images on top”, and both “Leave tile empty if top image is

missing” and “Omit Hanging Snapshot if tile is empty” were checked. In this scenario, the ReportFlow step was not skipped if the case contained a Secondary Capture image. This has been corrected with the changes to the Hanging Snapshots configuration (see [2.2.3 Hanging Protocol Enhancements for Tomosynthesis Studies](#)).

2.9.4. Prior images not shown when using the Current/Prior toolbar button

In version 8.2, under certain circumstances, for patients with multiple prior studies, if a particular view was missing from one prior, then that view was not displayed for other priors, even if the image was available. This has been corrected.

2.9.5. Corrupt CAD SR results in inability to accept patient studies

An error was introduced in version 8.1 that a database failure occurred when a corrupt DICOM object was received, such as a CAD SR with missing required tags (e.g., Manufacturer). The database error resulted in failure to receive subsequent images from that patient. This has been corrected.

2.9.6. Manual merge of non-local studies in MultiView configuration

In version 8.3, it was possible to manually merge two patients that were present in MultiView MM but were not local to SecurView workstations. This resulted in undesirable behavior. In 8.4, manual merging of non-local studies is prohibited.

2.9.7. Diagnostic printing of GE images not possible without MPE license

After the introduction of the MPE feature in version 8.1, it was not possible to print GE digital mammography images in diagnostic mode unless the MPE license was present. This has been corrected.

2.9.8. Print queue blocked if there is no reply from printer

In previous versions, a problem occurred if SecurView workstations failed to receive a response from the printer during a print job. In this case, subsequent print jobs were blocked. This has been corrected.

2.10. Problems Corrected in Version 8.3

2.10.1. Unknown photometric interpretation halts image preparation

In earlier versions, image preparation failure of ultrasound color images with a photometric interpretation value of YUV_RCT received or imported from removable media could halt image preparation for all incoming images. This has been corrected.

2.10.2. Intelligent Roaming Interrupted during ReportFlows

In earlier versions, if you interrupted the Intelligent Roaming sequence within the ReportFlows and returned to Intelligent Roaming, the remaining steps were not displayed. This has been corrected.

2.10.3. Annotations from Other Users Not Shown Correctly

In earlier versions, if a study contained annotations from other users in addition to the current user, the annotations from other users may not have been displayed if “All” was selected in the Annotation User Filter. This has been corrected.

2.11. Problems Corrected in Version 8.2.1

2.11.1. Image Distribution Failure after Client Workstation Restart

In version 8.2, if a client in a multi-workstation cluster was restarted while images were being distributed from the manager, then image distribution to all clients could fail after that point. This problem has been corrected.

2.11.2. Memory Leak Leading to Failure to Receive Images

In earlier versions of software, a memory leak in the DICOM Store SCP module, most evident when receiving tomosynthesis images in Hologic SCO format using JPEG lossless compression could result in the failure to receive images. This has been corrected.

2.11.3. Failure to Prepare Images Received with JPEG Lossless Compression

An intermittent problem related to the padding of compressed pixel data that causes a failure to prepare certain images transmitted using JPEG lossless compression has been corrected.

2.12. Problems Corrected in Version 8.2

2.12.1. Image Preparation Failure for Tomosynthesis Reconstructed Slices

In earlier versions, an intermittent software failure occurred when preparing tomosynthesis reconstructed slices sent from Dimensions® mammography systems as DICOM Breast Tomosynthesis Image (BTO) using JPEG compression transfer syntax. A “Missing Images” message was displayed on affected cases. This problem has been corrected.

2.12.2. Performance Problems on Windows XP systems after 7.3/8.1 Upgrade

On SecurView systems running Windows XP, a problem was introduced after an upgrade to version 7.3 or 8.1. This resulted in slow image display performance, including when advancing through steps in a ReportFlow and scrolling through tomosynthesis images. This was due to an error in a Barco display library and has been corrected as part of the 8.2 upgrade procedure.

2.12.3. Display of Paddle Description for Dimensions Mammography System 1.6 Images

In earlier versions, the Paddle Description field in the image overlays and the MammoNavigator was not displayed correctly for images created on Dimensions mammography systems 1.6. This problem has been corrected.

2.12.4. Sorting Problem for US Studies in MM Viewer

In earlier versions, only the Acquisition Date and Acquisition Time DICOM attributes were considered when displaying the thumbnails of ultrasound studies in the Study Browser of the Multimodality viewer. For images that used the optional attribute Acquisition DateTime, the thumbnail images were not correctly ordered by acquisition time. The Acquisition DateTime attribute is now used if the Acquisition Date and Acquisition Time attributes are not present.

2.12.5. Toolbar Buttons Incorrectly Displayed

In version 8.1, the toolbar buttons were displayed incorrectly after changing the Image Presentation user preferences for the Toolbar Hanging Buttons. This problem has been corrected.

2.12.6. Tomosynthesis Image Hanging Error

In earlier versions, the hanging order of images in a ReportFlow was sometimes displayed incorrectly if the patient was opened for review before all images had arrived at the workstation. One result for tomosynthesis studies was that the setting to display 2D or tomosynthesis images on top was not followed. This problem has been corrected.

2.12.7. Preparation Failure for Images Sent with JPEG Compression Transfer Syntax

In version 8.1, some images sent with the JPEG compression transfer syntax were not prepared correctly. The problem was observed on 8-bit ultrasound images following an upgrade to version 8.1. This problem has been corrected.

2.12.8. Lightbox Crash after Dragging a Tomosynthesis Image from the MammoNavigator

In version 8.1, a Lightbox crash could occur if a tomosynthesis image was dragged from the MammoNavigator onto an empty tile configured to contain a prior image. This problem has been corrected.

2.12.9. Smaller Font Size Needed for Printing Overlay

The lower limit for Printing Overlay Font Size was reduced from 8 to 4 so that overlay text does not overwrite breast tissue when printing quarter-tile images.

2.13. Problems Corrected in Version 8.1.1

2.13.1. Multimodality ReportFlow Advances Incorrectly

In previous versions, this issue sometimes occurred when using the barcode scanner to open a patient with both MG and MM images. In some cases when the user attempted to advance to the next ReportFlow step, both the MG and MM ReportFlows would advance simultaneously. The problem has been corrected.

2.13.2. Tomosynthesis Printouts with Missing Patient Information

In previous versions, in some situations when multiple tomosynthesis slices were printed on a single film, patient information was missing from some slices. The problem has been corrected.

2.13.3. Tomosynthesis Printouts with Missing Annotations

In previous versions, Annotations received in a GSPS object were not printed on tomosynthesis slices. The problem has been corrected.

2.13.4. Failure to Prepare Images Resulting in 'Missing Images' Message

In previous versions, certain conditions resulted in an intermittent failure to prepare a new incoming image for presentation; this resulted in the display of a 'Missing Images' message when a patient was opened for review. The failure was most likely to occur on systems configured for auto-fetching of prior images when those images already were present on the system. The problem has been corrected in version 8.1.

2.13.5. Lightbox Crash when Scrolling

In previous versions, a lightbox crash could occur if the mouse scroll wheel was used to advance through images in a stack immediately after display. This problem has been corrected.

2.13.6. Pending State Behavior

In previous versions, patients that were opened for review when auto-logoff occurred were put in a Pending state. In version 8.1, the patient state does not change.

2.13.7. Slice Out Of Bounds Message in Multimodality Viewer

In previous versions, a 'Slice Out of Bounds' message could be displayed for ultrasound images due to misleading pixel spacing information. This problem has been corrected in version 8.1.

2.14. Known Issues in Version 8.4

2.14.1. Importing Version 5-x ReportFlows

It is not possible to import saved MG ReportFlows created on version 5-x SecurView workstations. The import fails with an error indicating an incompatible format. The minimum version supported by version 8.x is 6-x.

2.14.2. Ultrasound Measurement Calculations

When Pixel Spacing and Sequence of Ultrasound Regions are both present in an ultrasound image, SecurView workstations use the Pixel Spacing value to calculate measurement lengths.

2.14.3. Preparation Times for Color Ultrasound Images

Longer than normal preparation times may occur when color ultrasound images are sent to SecurView workstations that use compression transfer syntaxes. This problem can be resolved by disabling support for compression transfer syntaxes so that ultrasound images are sent uncompressed from PACS or from modalities. For assistance, contact Technical Support.

2.14.4. Annotations Displayed Incorrectly on Reduced Resolution Center Slice of SCO Image

If an annotation is made on a tomosynthesis image sent as Hologic SCO to SecurView workstations, and then stored to PACS as a GSPS, the marking may appear at the wrong location on a PACS viewer if displayed on the reduced resolution center slice stored in the public pixel data attribute of a Hologic SCO image.

2.14.5. C-View BTO Diagnostic Print is not True Size

When C-View 2D images that have been received in BTO format are printed in Diagnostic mode, they are not printed True Size, as is expected, but rather are sized to fit the film area. If Diagnostic mode printing is required, the C-View 2D images should be printed from the Dimensions mammography system, or the C-View 2D output format on the Dimensions mammography system should be changed from BTO to MG. C-View 2D images in MG format can be printed True Size in Diagnostic mode on the SecurView workstation.

3. Security Enhancements

3.1. OS Patches from Microsoft

SecurView software 8.4 is validated with Microsoft security updates for:

- Windows Server 2008/Windows 7 x64 through December 2015
- Windows XP through May 2014
- Windows Server 2003 through July 2015