

SecurView®

Breast Imaging Workstation



SecurView® DX/RT Workstation

Release Notes

MAN-10408 Revision 001

HOLOGIC®

SecurView[®]

Breast Imaging Workstation

Release Notes

For Software Version 11.1.2

Part Number MAN-10408

Revision 001

July 2023

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Introduction

The *Release Notes* document provides a listing of New Features, Problems Corrected, and Known Issues in the most recent release of the SecurView® DX/RT workstation software. The 11.x releases include:

Version	Release Date
11.0	July 2020
11.0.1	January 2021
11.0.2	September 2021
11.1.1	April 2022
11.1.2	June 2022

Version 11.1 requires the Windows® 10 (Standalone, Client) or Windows Server 2016 (Manager) operating system. Windows 7 and Windows Server 2008 operating systems are not supported.

Notes for Version 11.1.2

2.1 Problems Corrected in Version 11.1.2

2.1.1 Standalone Workstation Image Availability Delays

In SecurView versions 11.0 and 11.1.1 on Standalone workstations, noticeable image availability delays could occur when a large volume of incoming image data, such as for prior studies, was being received and prepared while a user was logged in for reading. Now it is possible to disable the default lowering of image preparation process priority while a user is logged into a Standalone workstation.

Notes for Version 11.1.1

3.1 New Features in 11.1.1

3.1.1 User Password Control Enhancements

For SecurView application users that do not use Active Directory, user password content rules are extended to ensure stronger passwords. In addition, an Administrator can set up the system so that users are required to change the initial password at first login. User passwords can be configured to expire after a configurable number of days, and a message will be displayed informing the user of pending password expiration for a configurable number of days in advance.

3.1.2 Separate Cine Speed Controls for Slices, SmartSlices, US Multi-frame

The user preference that sets the default cine speed provides separate cine speed control settings for tomosynthesis reconstructed slices, tomosynthesis reconstructed slabs or SmartSlices, and ultrasound multi-frame images.

3.1.3 Genius AI Detection Read Time Indicator Column

The Hologic® Genius AI™ Detection case level result Read Time Indicator (RTI) is in a separate column on the patient list. In SecurView 11.0, the Read Time Indicator value replaced the '+' in the CAD column on the patient list.

3.1.4 View Actual Pixels Enhancement

Tomosynthesis images of a combination procedure that have the same matrix size, such as reconstructed slices, SmartSlices, and synthesized 2D images, are displayed as co-registered in View Actual Pixels scaling mode, such that the same image area is displayed when switching between the image types.

3.1.5 Image Scaling Disabled for Ineligible Images

When only images that are not eligible for the scaling modes are displayed, such as ultrasound images, the Image Scaling options (Fit to Viewport, Right Size, Same Size, True Size, and View Actual Pixels) are disabled.

3.1.6 Delete Multiple Hanging Snapshots and ReportFlows

Multiple Hanging Snapshots can be selected from the Available Hangings list to delete at once.

Multiple ReportFlows can be selected from the ReportFlows tab to delete at once.

3.1.7 Client Image Distribution Eligibility Enhancement

In a cluster environment that is configured for Client workstations to participate in image distribution, measuring the network bandwidth between the Manager and Client is included in the criteria used to select connected Clients that are eligible to assist with image distribution.

3.1.8 DICOM 6000 Overlay Support for Ultrasound Images

DICOM 6000 Overlay content is displayed when present in grayscale or color ultrasound images by creating a copy of the image with the overlay burned in. The copy with the burned-in overlay is stacked with the corresponding original image.

3.2 Problems Corrected in Version 11.1.1

3.2.1 Display Freeze Due to Data Collection for Unifi Analytics

The SecurView 11.0 application became unresponsive when a large quantity of events were being processed to record in the data collected for Unifi™ Analytics. The workaround was to disable data collection for Unifi Analytics. This problem is corrected.

3.2.2 Receiving Incomplete Mammography CAD SR Requires Reboot

Received DICOM Mammography CAD SR objects that were missing significant required content caused a CAD SR parser failure that required the SecurView Manager to be rebooted. Incomplete Mammography CAD SR objects are detected and ignored.

3.2.3 Application Crash After Logout During Query/Retrieve

If a user logged out, either manually or automatically, shortly after performing manual Query/Retrieve while the retrieve process was still completing in the background, the application would crash. This problem is corrected.

3.2.4 Barcode Reader Conflict When Worklists Dialog Box is Open

If a user scanned a barcode to open a patient while the *Worklists* dialog box was open, the patient did not open, the dialog box was closed, and the Application Selector was not visible. A restart was required to resolve the issue. This problem has been corrected such that the patient matching the scanned barcode is opened.

3.3 Known Issues in Version 11.1.2

3.3.1 Application Appears Unresponsive with Hidden Modal Dialog Box

When a user moves the MammoNavigator feature manually to a location that covers the area where a modal dialog box would be displayed, such as the *No Currents Available* warning dialog box, the SecurView application appears to be unresponsive, blocking other actions until the user closes the hidden modal dialog box.

3.3.2 Compressed Ultrasound Color Images Displayed with Incorrect Colors

Ultrasound YBR_FULL color images received using JPEG compression are displayed with incorrect colors. To resolve this problem, disable compression transfer syntaxes when receiving ultrasound images. For assistance, contact Technical Support.

3.3.3 Annotations Not Sent on Secondary Capture Images

When a Secondary Capture Image other than digitized film is the only image in a study, user annotations made on that image are not sent at close study.

3.3.4 Ultrasound Measurement Calculations

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

3.3.5 Annotations Displayed Incorrectly on Reduced Resolution Center Slice of SCO Image

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

Notes for Version 11.0.2

4.1 Problems Corrected in Version 11.0.2

4.1.1 Display Freeze on Image Hanging Transition

In SecurView 11.0, intermittently the application would appear to freeze by not updating some image display viewports, for example, when changing the image hanging or ReportFlow step in rapid succession, before all images were completely displayed. This problem is corrected.

Notes for Version 11.0.1

5.1 New Features in 11.0.1

5.1.1 Tomosynthesis Scrolling Performance Improvements on Standalone

Tomosynthesis scrolling on the first scroll is improved on Standalone workstations by automatically granting higher priority to image viewing processes over image preparation processes when both are active.

5.1.2 Improvements to Client Reconnection with Manager

When a Client workstation loses its connection with the Manager (for example, during overnight pre-fetching and routing of prior studies), the Client restarts automatically when the connection is re-established so that image distribution resumes immediately. If a user is logged in to a Client workstation when a disconnect and reconnect with the Manager occurs, the user is prompted to restart the Client.

It is no longer possible for the Manager to mistakenly restart distribution to a disconnected Client after another Client reconnects.

5.1.3 Improvements to Image Preparation Recovery

When an image preparation process is unresponsive and needs to be terminated, after the image preparation process is restarted automatically, the image that was being prepared is given one more chance to complete preparation.

5.2 Problems Corrected in Version 11.0.1

5.2.1 Smart Mapping Conflict with View Actual Pixels

In SecurView 11.0, the application crashed after applying **Smart Mapping** in single tiling mode and then attempting to apply **View Actual Pixels**. This problem is corrected.

5.2.2 Scrolling Through Stacked Priors Conflict with Empty Tile

In SecurView 11.0, the Mammography viewer crashed in quadruple tiling mode when scrolling through stacked priors in an empty tile. This problem is corrected.

5.2.3 Cannot Change Displayed Image with Cine Button Pressed

In previous SecurView versions, when the user took action to change a displayed image while the Cine mode button was pressed, the Mammography viewer would crash. This problem is corrected.

5.2.4 Hologic SCO Tomosynthesis Image Preparation Failure

In previous SecurView versions, Hologic SCO tomosynthesis image preparation failed with multi-threaded SCO image preparation enabled. This problem is corrected.

5.2.5 Memory Leak Stalled Image Preparation

In previous SecurView versions, a memory leak in a third-party multi-threading library stalled tomosynthesis image preparation, requiring a restart of the Manager. This problem is corrected.

Notes for Version 11.0

6.1 New Features in 11.0

6.1.1 Tomosynthesis Scrolling Performance Improvements

Tomosynthesis scrolling on the first and second scroll is improved by using a more efficient strategy to load the slices into memory. The first scroll is also smoother in ReportFlow steps that include automatic cine with a configurable one second delay prior to starting cine.

Tomosynthesis scrolling performance on the second scroll is improved by up to a factor of two by changing the background of the Tomo Slider from transparent to black while scrolling through slices. This setting is configurable per workstation and allows the cine speed maximum to be increased to more than 30 frames per second.

6.1.2 Synchronized Cine Position in Unlinked Viewports

When cine mode is started manually in multiple unlinked viewports, the starting position is synchronized such that approximately the same position in the breast is maintained simultaneously in each viewport. The cine position for each viewport with cine already in progress is set to match the starting position of the viewport where cine mode is started last.

You can disable synchronization of cine for unlinked viewports with a new user preference.

6.1.3 Hologic 3D CAD Results Display (Not available in all markets)

CAD marks from Hologic Genius AI Detection that analyze Hologic tomosynthesis reconstructed slices can be displayed on the referenced reconstructed slices or SmartSlices. The Tomo Slider indicates which slices have 3D CAD marks, with highlighted display of CAD marks on the referenced slice and faded display on a few surrounding slices. Whether or not to display CAD score and case score with 3D CAD marks is configurable as a system setting.

Genius AI Detection results are displayed using Hologic RightOn™, PeerView™, and EmphaSize™ CAD marks. The existing CAD mark user preferences applies to both ImageChecker® CAD and Genius AI Detection results.

The CAD marks can be projected onto corresponding conventional 2D images, synthesized 2D images, or SmartSlices of the same view and tomosynthesis acquisition. Projection of CAD marks is configurable as a system setting.

The Genius AI Detection case level results CAD Complexity, Reading Priority, and Read Time Indicator are included in the patient list.

6.1.4 Automatic Worklist Enhancements

Automatic worklists do not open eligible patients that are locked by another user in a cluster environment. If eligible cluster-locked patients are unlocked before the user reaches the end of the worklist and another user has not marked the patients as Read, these patients are added to the end of the worklist.

By default, Screening and Diagnostic patients are combined in a single automatic worklist. This setting cannot be used if different reading methods (single versus double reading) are used for Screening and Diagnostic studies.

The Undefined study category is no longer used. If Procedure Identification does not identify a study as Screening or Diagnostic, additional logic is applied. All studies that are not identified as Diagnostic are assigned as Screening. For example, a study is identified as Diagnostic if it contains images of modality other than MG, or MG images that are not considered screening views.

You may use Genius AI Detection Read Time Indicator values (Low, Medium, and High) to customize automatic screening worklists. A new user preference allows configuration of a user defined Read Time Mix.

6.1.5 Ultrasound Image Display Enhancements

Performance improvements were made to preparation of large color multi-frame ultrasound image sets for Mammography Viewer display.

Color images are displayed with color in the Mammography Viewer if a high-resolution color display is connected.

Single-frame ultrasound images of the same laterality within a study are combined under one thumbnail image and sorted by acquisition time, oldest to newest. Additional sorting by series number and instance number in ascending order is applied if necessary.

Single-frame ultrasound thumbnail images are labeled "US". Multi-frame ultrasound thumbnail images are labeled "US-MF".

A new horizontal slider is displayed to allow manual scrolling through multiple single-frame ultrasound images stacked within a tile or a multi-frame ultrasound image set. You may also use the keypad scroll wheel. A cine button is included for use with a multi-frame ultrasound image set.

6.1.6 Export to Media with Compression

All grayscale images that are exported to media as a DICOM file compress the pixel data using JPEG Lossless Compression.

6.1.7 Collect Data for Unifi Analytics

A licensed option is available to collect SecurView application data to provide to Unifi Analytics in an XML file produced daily at a configurable time, with anonymized patient information. The recorded events include receipt of DICOM objects, image preparation start and finish, image distribution in a cluster, and patient study user interaction such as open and close.

6.1.8 Contrast Enhanced Biopsy Combinations

Contrast enhanced low energy and subtraction images for a biopsy view are combined in one thumbnail image based on the biopsy view, where the minus and plus images of a paired biopsy view are in separate thumbnail images.

6.1.9 Suspend and Review Warning

A new user preference can be enabled to inform you when returning to an automatic worklist after Suspend and Review that the patient order in the worklist may have changed such that a patient that is not yet reviewed precedes the currently open patient.

6.2 Problems Corrected in Version 11.0

6.2.1 Patient List Sorting after Local Search

Patients that match the search criteria of a local search are grouped at the top of the patient list and now remain there until the user performs a new local search, the user changes patient list sorting manually, the patient list is reset, or the user logs out.

6.2.2 Link Tile Possible with Default Linking Properties Disabled

When one of the **User Preferences > Tools and Overlays > Default Linking Properties** settings is disabled, it is now possible to link tiles manually using Link Tile on the pie menu.

6.2.3 Window/Level Not Linked Automatically

Window/Level is no longer synchronized automatically by default in linked viewports. You can still activate Window/Level synchronization with a user preference.

6.2.4 Predefined Hanging Reset

After you select a predefined hanging button, if you perform a different action such as dragging and dropping an image into a viewport, the predefined hanging button is reset so the next selection displays current images.

6.2.5 Stalled Image Preparation Restarted

When the SecurView application is shut down while preparing image data, in-process image preparation jobs are now detected and restarted when the SecurView application is restarted.

6.2.6 Display of Rotated Tomosynthesis Reconstructed Slices

Reconstructed slices received as DICOM Breast Tomosynthesis Image with pixel data oriented such that the chest wall is at the top or bottom are now accepted and displayed.