

SecurView®

Breast Imaging Workstation



Release Notes

MAN-11728 Revision 001

HOLOGIC®

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Breast Imaging Workstation

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For Software Version 12.0

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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 12.0 release includes:

Version	Release Date
12.0.1	August 2023
12.0.2	November 2024

Version 12.0 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 12.0.2

2.1 New Features in Version 12.0.2

2.1.1 No Currents Available Warning Improved

The 'No Currents Available' warning dialog box now includes a caution symbol and two buttons, Exit Review and Continue Review. The user must select whether or not to proceed with reviewing a patient that does not have current images available.

2.1.2 Locked Patient Notification Improved

The SecurView application has two patient lock types that are identified in the State Indicator when a patient is opened for review, user-locked or cluster-locked.

Cluster-locked, when a patient is currently open on a different Client in a SecurView cluster, is now identified by displaying 'In Review by' with the username and IP address of the Client where the patient is already open.

User-locked is still identified by displaying the selected state: Pending, Additional Images Required (or Arrived), or Consultation Required.

2.1.3 Enhanced Image Distribution Manager to Client Control

With the SecurView 12.0 software image distribution enhancements, the ability to assign specific Clients to receive images directly from the Manager was omitted. A new configuration setting restores this capability.

2.1.4 New High Resolution Color Display Supported

The SecurView workstation now supports the latest Barco high-resolution color display for the SVDX-01200 model, or as a display upgrade for existing customers. A display upgrade requires a SecurView 12.0.2 software upgrade.

2.1.5 Additional Languages Supported

The Mammography Viewer user interface may be displayed in any of the following additional languages: Canadian French, Danish, Greek, Finnish, or Norwegian.

The decimal separator displayed with numeric values is configurable at the system level (',' or '.').

The following languages are already supported per earlier SecurView versions: Dutch, English, French, German, Italian, Portuguese (Brazil), Portuguese (Portugal), Spanish, Swedish.

2.2 Problems Corrected in Version 12.0.2

2.2.1 Lightbox Crash with Viewer Closing User Preference Enabled

A race condition, related to the Viewer Closing user preference, could cause a lightbox crash when closing the last patient in a review session when the setting is enabled. For example, exiting Suspend and Review immediately after closing a patient could trigger a crash. This problem is corrected.

2.2.2 Lightbox Crash with Rapid ReportFlow and Mouse Interaction

During rapid stepping back and forth in a ReportFlow while simultaneously clicking a mouse button, a race condition could cause a lightbox crash. This problem is corrected.

2.2.3 Patient Not Displayed in Patient List After Marked Read

When the patient list 'Not Read' filter is used, after marking a patient 'Read' the patient was removed from the 'Not Read' filtered patient list as expected. However, if you changed the patient list filter, for example, by deselecting the 'Not Read' filter or selecting a different filter ('Read' or 'Today'), patients that you marked 'Read' that met the filter criteria were not displayed at all in the patient list until you selected 'Update Patient List'. This problem is corrected.

2.2.4 Incorrect ReportFlow Automatically Applied to Unilateral Study

A diagnostic ReportFlow could be applied automatically instead of the expected unilateral ReportFlow when a unilateral study also included images with undefined laterality (for example, Secondary Capture Image of a document). This problem is corrected.

2.2.5 Incorrect ReportFlow Automatically Selected for Conventional 2D

When a patient with only current conventional 2D mammography x-ray images was opened, the Ultrasound HSS ReportFlow was selected incorrectly with the Workflow Selection user preference set to 'Select best matching ReportFlow, based on all images'. This problem is corrected, along with reverting the 'fraction of used images' factor calculation to use the SecurView software version 11.x and earlier logic.

2.2.6 Client Automatic Deletion Performance Improvement

Automatic Deletion in progress on a Client workstation may prevent user login for many minutes. This problem is corrected.

2.2.7 Image Preparation Crash with Unexpected Pixel Bit Depth

Received compressed images with pixel data that contain 16-bit values but are identified as 8-bit (for example, scanned paper documents) cause image preparation to crash after decompression. This problem is corrected such that the images are prepared and displayed.

2.2.8 Lightbox Crash with Patient AutoMerge Enabled

With Patient AutoMerge enabled, additional images arriving with a patient ID that matched a secondary patient ID of an automatically merged patient caused a lightbox crash. This problem is corrected.

2.2.9 Open Patient Message Closes Viewer During Suspend and Review

If during Suspend and Review the SecurView application received an Open Patient message for a patient or study that was not in the SecurView database, the Viewer would close. This problem is corrected, such that all received Open Patient messages are ignored during Suspend and Review.

2.2.10 Genius AI® Detection SR Manufacturer Value

If a Genius AI Detection Mammography CAD SR contained the Manufacturer value "R2 Technology, Inc." the SecurView application did not display the results correctly. This problem is corrected.

2.3 Known Issues in Version 12.0.2

2.3.1 JPEG Lossless Compressed Image May Fail Decompression

On some SecurView Standalone workstations, decompression of some received JPEG Lossless Compressed images may fail with GITT error code 29. The issue is CPU dependent (for example, Intel Xeon W-2225, in Hologic provided CMP-01728, Dell 5820). The workaround is to resend the images uncompressed.

2.3.2 Some Spot SIO Reconstructed Slices Display Upside Down

Some received Spot SIO reconstructed slices (BTO) may display upside down. The workaround is to manually flip or rotate the images.

2.3.3 Compressed Ultrasound Color Images Display 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 Product Support.

2.3.4 Procedure Identification Requires Separate Entry for Each Modality

Starting with SecurView software version 11.0 and the removal of the Undefined study type, Examination Procedure Identification configuration requires each

Procedure Description to be identified as Screening or Diagnostic for each applicable modality (for example, MG, SC-MG, Tomo-Reconstruction).

2.3.5 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.

2.3.6 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 12.0

3.1 New Features in Version 12.0

3.1.1 Ultrasound Image Workflow Enhancements

The Mammography Viewer supports ultrasound reading workflow with the following enhancements:

- Grouping of ultrasound images: single MammoNavigator™ feature thumbnail per ultrasound study and laterality, labeled with SF (single frame) and MF (multi-frame) based on the study content. The MammoNavigator feature includes horizontal tiles.
- Labeling: displayed ultrasound images are identified with the current image number, the total number of images in the set, the zoom factor, and a cine icon if the current image is multi-frame.
- Navigating ultrasound image sets: use the scroll wheel (mouse or keypad) with the cursor in the viewport containing the image set. A slider and cine button provide navigation through multi-frame images, or use the scroll wheel with the cursor on the slider.
- Viewport layout: Grid mode tool with options for horizontal and vertical combinations up to 12 images per tile, with snaking or paging navigation modes per user preference.
- Hanging snapshots and ReportFlows: Horizontal layouts available in hanging snapshot configuration, with new ultrasound default hanging snapshots and ReportFlow.
- Distance measurements: Length calculations in mm use the encoded pixel size per region within an ultrasound image.
- Exporting ultrasound multi-frame images to media as a movie in AVI format.

3.1.2 Genius AI Detection 2.0 Software Correlated Results Display

The SecurView application displays Genius AI Detection 2.0 software results that correlate findings between CC and MLO views of the same breast, using single step

or two-step options. Correlated findings are labeled with the same alphabetic letter in each view.

3.1.3 New Patient List Filters

The Patient List has three new filter options: Read, Not Read, Today's patients.

Type the first few letters of the patient name or patient ID to highlight a matching patient in the Patient List.

3.1.4 Pie Menu Enhancements

The Pie menu is redesigned to have eight main Pie menu selections and five submenus, where each user can configure the most frequently used tool from each submenu as the main Pie menu selection.

3.1.5 Close Study Dialog Box Enhancements

The *Close Study* dialog box is updated to allow marking studies as Read with fewer clicks by preselecting all studies that can be marked as Read, and with clearer descriptions of the annotation output options. When adding a new user, the workflow user preferences are enabled by default for the sending annotations options in the *Close Study* dialog box.

3.1.6 Export Displayed Images Screen Capture as PNG

The Pie menu provides tools to export a screen capture of all currently displayed viewports, or a screen capture of a single selected viewport, to a selected media folder as a PNG file (instead of TIFF). The keyboard shortcut [E] can be used to export a screen capture of all currently displayed viewports.

Exporting a screen capture of currently displayed viewports as PNG or DICOM media files is an alternative to Screen Capture printing of 2D images to film, which was removed in SecurView 12.0. The Diagnostic Printing of 2D images to film and Tomosynthesis slices printing to film features are still available.

3.1.7 Image Distribution Enhancements

When Client workstations are used for image distribution in addition to the Manager in a multi-workstation environment, the distribution chain is now configurable.

Specific Client workstations can be configured in priority order to receive images before other Client workstations in the distribution chain.

Specific Client workstations can be configured not to be used as image distributors.

3.1.8 Image Overlay Enhancements

Image Overlay content can be configured specifically for ultrasound images.

Contrast imaging characteristics are available to include in the MG Image Overlay.

3.1.9 Missed View Safety Warning Improved Wording

The Missed View Safety Warning message is updated to state, "Caution: You did not look at all current images in the required resolution: View MG images in full screen view, View other images in any size."

3.1.10 CAD Results Display Enhancements

Display of CAD / Case Score is now a user preference instead of a system-wide setting.

Mass with calcifications and Individual Calcification findings can be displayed for non-Hologic CAD results.

Case score can be displayed using the Certainty of impression or Impression Description content, configured per non-Hologic CAD manufacturer.

CAD score can be displayed using the Certainty of Finding or the numeric value or text description of specified Calculated Value content, configured per non-Hologic CAD manufacturer.

3.1.11 Initiate Local Search with Enter Key

When using the *Local Search* dialog box to search for patients in the SecurView application patient list, it is now possible to initiate the search by pressing the **Enter** key on the keyboard, as an alternative to selecting the **Search** button in the dialog box.

3.2 Problems Corrected in Version 12.0

3.2.1 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. This problem is corrected; the MammoNavigator feature is moved to its default location.

3.2.2 Application Stops Responding to User Selections (Freezes)

In SecurView software version 11.1, it is possible for the application to stop responding to user selections (for example, via mouse, keyboard) due to an intermittent internal timing issue, requiring an application restart or workaround (for example, press the 'e' key, then cancel the export dialog box) to restore operation. This problem is corrected.

3.2.3 Delayed Client Connections to Manager

If a Client workstation cannot connect to the Manager, all Client workstations still awaiting connection are blocked until the troublesome Client workstation is corrected or removed. This problem is corrected with a timeout for each Client workstation connection attempt that prevents the blockage.

3.2.4 Image Preparation Crash Prevents SecurView Application Restart

It is possible for the image preparation process to crash due to ultrasound, Hologic SCO tomosynthesis, or CT images with corrupt or missing or unexpected data. For example, lossless compressed subsampled YBR_FULL_422 ultrasound images, Hologic SCO tomosynthesis images missing the private pixel data, or unexpected negative pixel padding values in CT images may lead to preparation delay or inability to restart the SecurView application successfully. These problems are corrected. In addition, the number of times a failed process is restarted automatically is no longer limited.

3.2.5 Stack Indicator Displays Twice when Stepping through ReportFlow

In SecurView software versions 11.0.x and 11.1.x, it is possible for the stack indicator to be displayed twice in a tile briefly when stepping through a ReportFlow. This problem is corrected.

3.2.6 Stack Indicator Position Changes When Toggling Prior Images

When some images in a stack display the Tomo Navigation tool and others do not, the Stack Indicator position changes when toggling stacked images. This problem is corrected.

3.2.7 GE Ultrasound Grayscale Images Display with Low Contrast

GE ultrasound grayscale images may display with poor contrast due to a manufacturer specific setting that applies a sigmoid interpretation to Window/Level values of GE images, instead of the default linear interpretation. This problem is corrected by applying sigmoid interpretation only to GE mammography x-ray images.

3.2.8 MammoNavigator Feature Thumbnail Issue with Create Combination Procedure by View

When the SecurView application is configured for Create Combination Procedure by View, primarily for GE tomosynthesis combination procedures, when a 2D view without Frame of Reference UID matches more than one tomosynthesis data set for the same view in a study, the MammoNavigator feature thumbnails are not labeled correctly. This problem is corrected such that the 2D view is not combined with any reconstruction data set of the same view.

3.2.9 Maximum Storage Period of 1 Day Deletes Patients Prematurely on Mondays

The Maximum Storage Period when set to one day with Saturday and Sunday excluded unexpectedly deletes patients on Monday that arrived over the weekend. This problem is corrected.

3.2.10 Auto-Fetch Does Not Retrieve Prior Studies due to Associations Left Open

The Auto-Fetch operation can misinterpret query responses from the PACS if old open DICOM Associations are reused, causing prior studies not to be retrieved. This problem is corrected.

3.2.11 Hologic Quantra Results from Hologic Dimensions Not Displayed

SecurView software versions 11.0.x and 11.1.x do not display Hologic Quantra® results received from Hologic Dimensions® systems as Mammography CAD SR unless the Manufacturer value is changed in Dimensions configuration. This problem is corrected.