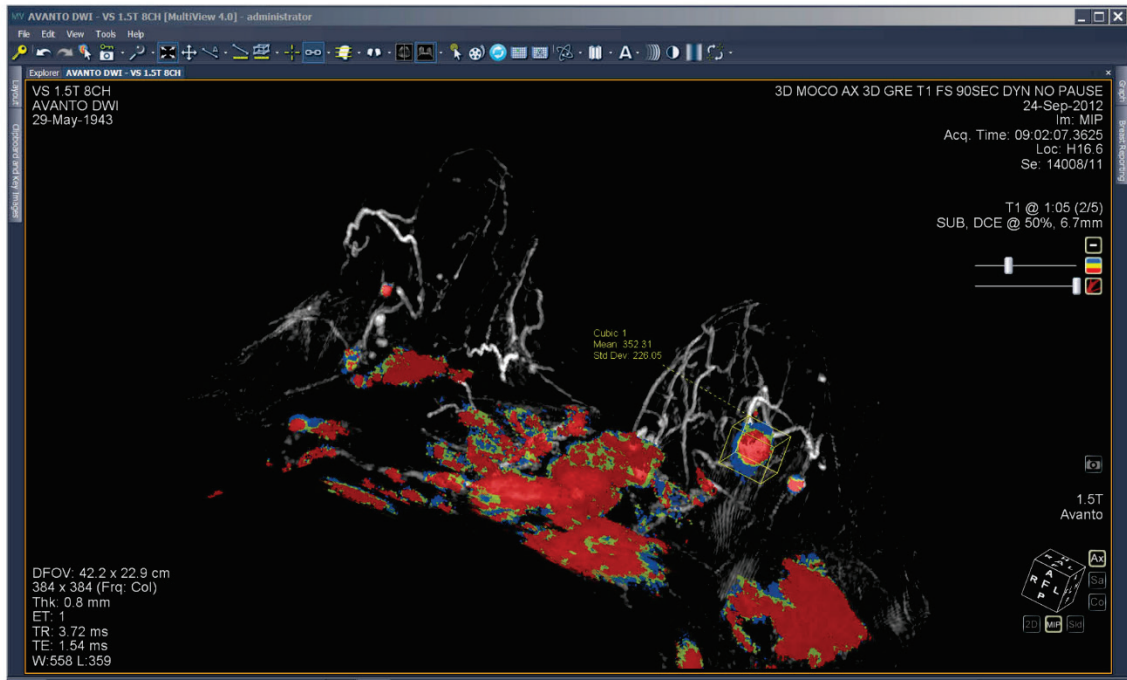


# MultiView™ Software



## Installation Manual MAN-10433 Revision 003

# MultiView™

Multimodality Software

## Installation Manual

For Software Version 4.1 for SecurView® Workstation

Part Number MAN-10433

Revision 003

August 2024

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# 1: Introduction

## 1.1 Purpose

This guide describes how to install MultiView™ Multimodality (also known as MultiView MM) software on SecurView® hardware.

## 1.2 Warnings and Precautions

This guide uses the following conventions to provide technical and safety information of special interest.



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**Warning:**

**An instruction that, if not followed, can result in a hazardous condition.**

---



---

**Caution**

**An instruction that, if not followed, can result in damage to the system.**

---



---

**Important**

An instruction provided to ensure correct results and optimal performance, or to clarify limitations of the device.

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**Note**

Information provided to clarify a particular step or procedure.

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## 1.3 Prerequisites

- For Windows® 7 standalone or client workstations, SecurView 10.1 or earlier (SecurView 10.3 can be installed on Windows 7, but it requires a workaround) with Application Synchronization 4.0 or later.



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**Note**

The earliest SecurView version that can be updated with this procedure is version 8.4. If you have version 8.3 or earlier, you will need a separate installation kit to upgrade to version 8.4 before performing this procedure.

---

- For Windows 10 standalone or client workstations, SecurView 10.3 or later with Application Synchronization 4.3 or later.

### 1.4 Required Material

- Updates Removable Media  
(includes MultiView System Updates)
- Product Installation Removable Media  
(includes MultiView Software Application, ClearCanvas® Software Application, and MultiView Documentation for US or OUS)

### 1.5 Required Hardware

The following hardware is the minimum hardware for SecurView 10.4 standalone and client workstations:

- Dell T7910 CMP-01469

Hardware upgrade kits are available for purchase to support customers requiring new hardware.

Kits are available to support an upgrade of the computer, video card, software, and operating system to Windows 10.

Hardware upgrades are not covered under warranty or contract agreements. Sites that do not meet minimum hardware specifications must purchase a hardware upgrade unless they are covered under the RENEW computer service program.

## 2: Installation

On the SecurView workstation, log in as **administrator** and insert the Product Installation Removable Media into the computer to begin. Follow the procedure described below to install ClearCanvas Workstation, MultiView, and MultiView Breast software.

### 2.1 Install ClearCanvas Workstation Software

To install the ClearCanvas Workstation software:

1. Double-click the ClearCanvas Workstation executable file (for example, ClearCanvas Workstation 1.5.0.x x64.exe).

**Note**

This step could take up to 30 seconds to start.

---

2. Select **English** and select **OK** to continue.
3. Select **Next** on the *Welcome to the ClearCanvas Workstation 1.5 Setup* page.
4. Select **I Agree** on the *ClearCanvas Workstation License Agreement* page.
5. For the install location, leave the destination folder as C:\Program Files\ClearCanvas\Clear Canvas Workstation and select **Next**.
6. On the *DICOM Server Settings* page, enter the AE Title, enter 11112 as the port, and select **Next**.

**Note**

MultiView software cannot use the same AE Title as SecurView software when installed on a SecurView standalone. Do not use port 104 for the MultiView DICOM port number; it may conflict with the SecurView DICOM port number on a standalone.

---

7. On the *Specify File Store Paths* screen, enter the following File Store Paths. For example, change C:\ to F:\.
  - DICOM File Store Path — *F:\MultiView\filestore*
  - Interim DICOM File Store Path — *F:\MultiView\dicom\_interim*
  - Bad DICOM File Store Path — *F:\MultiView\badfiles*



---

### Important

Do not use the C: drive to set the file store path. Use the F: (Data) drive on the SecurView workstation to set the DICOM, Interim DICOM, and Bad DICOM file store paths. The folders are created automatically during the install. The MultiView and SecurView applications share the same disk space, and each has its own cleanup settings. Configure the cleanup settings for both applications appropriately.

---



---

### Note

SecurView disk space monitoring is based on disk usage, and cleanup is based on the number of days to store studies per study state. Refer to the *SecurView DX/RT Workstation User Guide* regarding these settings.

---



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### Note

MultiView system cleanup is based on either disk usage or the number of MultiView studies. For configuration instructions, see [5.3 Diskspace Manager Configuration](#). For additional information about Diskspace Manager, refer to the *MultiView Multimodality Software User Guide*.

---

8. Select **Install**.
9. Deselect **Run Sentinelle ClearCanvas Workstation 1.5** and select **Finish**.

## 2.2 Install MultiView Software

To install the MultiView software:

1. Double-click the MultiView executable file (for example, MultiView 4.x.x.x x64.exe).
2. Select **Next** on the *Welcome to the MultiView Setup* page.
3. Select **I Agree** to accept the license agreement and to continue with the installation.
4. Select **Finish** to close the Setup Wizard.



### 2.3 Install MultiView Breast Software

To install the MultiView Breast software:

1. Double-click the Breast executable file (for example, Breast 4.x.x.x x64.exe).



#### Note

Do not install MultiView Breast Web software.

---

2. Select **Install** on the *Welcome to the MultiView Breast Setup* page.
3. Select **Finish** to close the Setup Wizard.

### 2.4 Install MultiView Documentation

To install the MultiView Documentation:

1. Navigate to the MultiView Documentation folder of the Product Installation Removable Media.



#### Note

For OUS/International installations, use the 'MultiView Documentation for OUS' folder instead.

---

2. Double-click **SystemUpdater.exe** and select **Start** to begin the MultiView Documentation update.
3. Select **Exit** when the update is complete.
4. Remove the Product Installation Removable Media and store it in a safe location.

### 2.5 License MultiView Software

To configure a license for MultiView software:

1. Launch the MultiView application.
2. On the software registration page, enter the name of the hospital or clinic and the organization. If the site is not affiliated with an organization or the organization is not known, enter the same name for both.
3. Enter the serial number information (requires a unique serial number from Hologic) and select **Register** to continue.



#### Note

Contact Technical Support at 877-371-4372 to get a valid serial number. Requests can also be sent to [BreastHealth.Support@hologic.com](mailto:BreastHealth.Support@hologic.com). The serial number should be requested before installing MultiView software.

---

4. On the activation page, select **Activate manually by entering a code** and enter the activation code (requires a unique activation code from Hologic).



#### Note

To request the activation code, you must provide the serial number and machine code of the system. Select the **Copy to Clipboard** button on the Activation page, which copies the serial number and machine code onto the clipboard. Then paste the information into the body of the email or paste the information into a text file and attach the file to the email. Send the email to [BreastHealth.Support@hologic.com](mailto:BreastHealth.Support@hologic.com).

---



#### Note

If there is a delay in receiving the activation code, go to the next section and return to this step upon receiving the activation code. By default, users are given a 10-day activation period before they must apply an activation code. After the activation period expires, the MultiView application will not launch.

---

5. Select **Activate** to close the licensing window.
6. Launch the MultiView application and log in to confirm that the license is enabled.

### 2.6 Apply the Dark Theme

To apply a dark theme for the MultiView application:

1. Insert the Updates Removable Media into the SecurView computer and navigate to the Vendor/Theme/MultiModality\_Theme folder.
2. Double-click the **Apply\_MMDarkTheme.bat** file in the MultiModality\_Theme folder and press any key to continue after import is complete.
3. Remove the Updates Removable Media and store it in a safe location.
4. Reboot the system.

## 3: Synchronize with SecurView Software

Use Application Synchronization to synchronize MultiView MM software with SecurView software. Setup of MultiView/SecurView software synchronization involves the following tasks:

- Configure Application Synchronization on SecurView software.
- Configure SecurView software and MultiView software on Application Synchronization.
- Configure Application Synchronization on MultiView software.
- Configure User Credentials and Login Synchronization on SecurView software.



### Important

Make sure that Application Synchronization 4.0 or later is installed before completing this procedure. Version 4.3 or later is required for SecurView software version 10.4 or later.

---



### Note

Installation of Application Synchronization is not covered in this document. Refer to the *Application Synchronization Installation Manual* for more information.

---

### 3.1 Configure Application Synchronization on SecurView Software

1. Log in as the **service** user on the SecurView workstation.
2. Navigate to the **Administration > Settings** tab and, under the **Synchronization Interface** section, select **Configure** (see Figure 1).

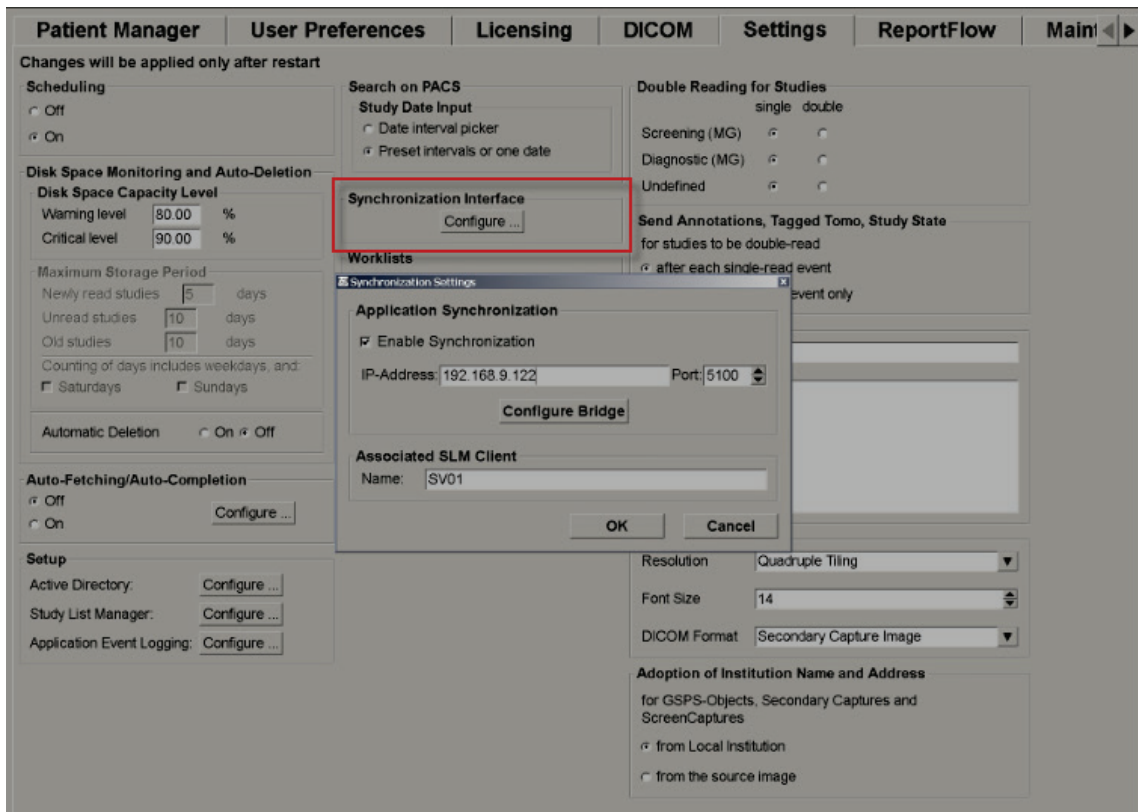


Figure 1: SecurView Settings Tab



#### Note

Figure 1 is from a SecurView 8.3 workstation. For detailed information on setting up the Synchronization Interface, refer to the *SecurView DX/RT Workstation User Guide*.

3. In the Synchronization Settings dialog box, select **Enable Synchronization** and enter the IP address and port for Application Synchronization.



#### Note

Typically, Application Synchronization and SecurView software are installed on SecurView hardware and share the same IP address. The port number for SecurView software is 4700, and the port number for Application Synchronization is 5100. Set the port number to 5100 for Application Synchronization as shown in Figure 1.

4. Select **OK** to save and close the dialog box.

## 3.2 Configure SecurView Software and MultiView Software on Application Synchronization

1. Log in as the **service** user on the SecurView workstation and navigate to the **Administration > Settings** tab.
2. In the Synchronization Interface section, select **Configure**.
3. In the Synchronization Settings dialog box, select **Configure Bridge** to launch the Hologic Application Synchronization Configuration Interface.
4. In the Application Synchronization Configuration Interface, select **Application List** (Figure 2) to view the list of applications.
5. If SCR (SecurView) is not in the Application List, continue to Step 6 to add the SecurView application information to Application Synchronization; otherwise, skip to Step 8 to add the MultiView application information to Application Synchronization.
6. If *SecurView* is not listed, select **Add Application** and enter the SecurView application information:
  - Application Alias: **SCR**
  - Application Type: **SecurView**

**Note**

If the Application Synchronization service is running, select **Stop** before adding an application.

---

7. Continue through the configuration pages by selecting **Next** (right arrow). Select **Save** (check mark) to save the SecurView configuration at the end.
  - a. Under the **Comm** tab, enter the IP address of the SecurView system and set the port to **4700**.
  - b. Under the **Misc** tab, set the **Response Timeout** to **15** seconds.

**Note**

For most sites, the remaining default settings are adequate. Refer to the *Application Synchronization Installation Manual* for more information if custom settings are required.

---

8. Select **Add Application** and enter the MultiView application information:
  - Application Alias: **MV AppSync Adapter**
  - Application Type: **MultiView** or **Aegis**

**Note**

If the Application Synchronization service is running, select **Stop** before adding an application.

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# MultiView Multimodality Software Installation Manual

## 3: Synchronize with SecurView Software

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9. Continue through the configuration pages by selecting **Next** (right arrow). Select **Save** (check mark) to save the MultiView configuration at the end.
  - a. Under the **Comm** tab, enter the IP Address of the MultiView system and set the port to 5102.
  - b. Under the **Misc** tab, set the **Response Timeout** to 15 seconds.



### Note

For most sites, the remaining default settings are adequate. Refer to the *Application Synchronization Installation Manual* for more information if custom settings are required.

---

10. Select **Application List** to view the list of applications. The Application Synchronization application list should be similar to Figure 2.

App ID	Alias	Application Type	Communication Type	Description
1	MV AppSync Adapter	Aegis	TCPIP	Hologic Aegis Version 3.2
2	SCR	SecurView	TCPIP	SecurViewDX V5-0-0 or

Figure 2: AppSync Application List

11. Select **Start** to start the Application Synchronization service. Exit the Hologic Application Synchronization Configuration Interface by selecting the **Close** button.

### 3.3 Configure Application Synchronization on MultiView Software

To configure Application Synchronization on MultiView software:

1. Launch the MultiView application and log in as the **administrator** user.
2. Navigate to **Tools > Options** menu and select **Application Synchronization**.
3. In the Application Synchronization Servers section, select **Add (+)**.
4. Enter the IP address for Application Synchronization (Hologic Bridge). Keep the default name (Hologic Bridge) and port number (**5100**).
5. Enter **LOCAL** for the **Client Hostname** if Application Synchronization is on the same computer as the MultiView application. Otherwise, enter the hostname of the computer where the MultiView application is running.
6. Select **OK** to add the server.

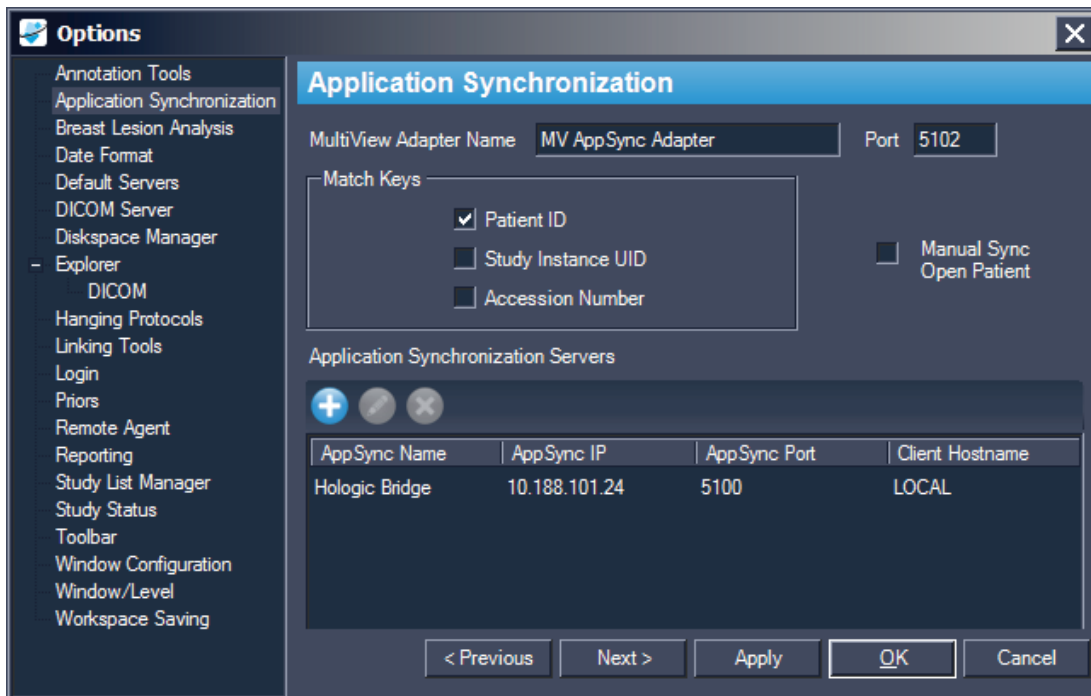


Figure 3: MultiView Application Synchronization Options

7. Select **OK** to close the Options dialog box, then exit the MultiView application.
8. Restart the workstation to restart services.

### 3.4 Configure User Credentials and Login Synchronization on SecurView Software

Follow these steps for each radiologist user on the SecurView workstation:

1. Log into the SecurView application as a **radiologist** user and select **Administration > User Preferences > User Profile**.
2. Under the Synchronization Credentials section, enter the information for the corresponding MultiView user account (if different from SecurView user account) and select the actions to be synchronized. If Active Directory is used select the Use SecurView Password check box instead of entering the password.

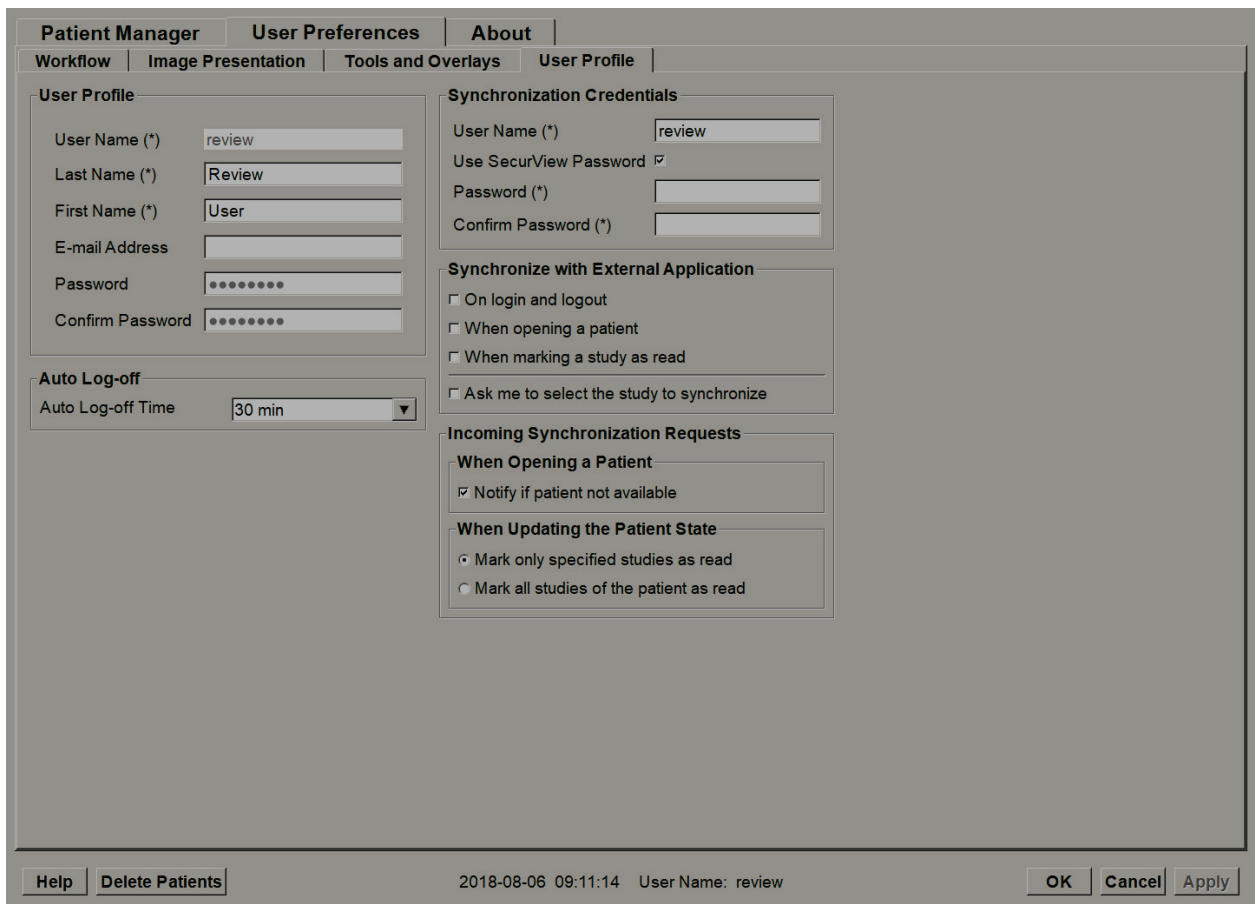


Figure 4: SecurView Software User Profile Tab



#### Important

Verify that the Username and Password match that of the corresponding user on the MultiView application.

3. Select **OK** to save the user profile settings.  
Repeat Steps 1–3 for each radiologist user.



## 4: Configure MultiView Software with Study List Manager

**Note**

The following instructions are for the configuration of the Study List Manager (SLM) options on MultiView software (client) and not the Study List Manager (server). Refer to the *Application Synchronization Installation Manual* for more information on the Study List Manager.

---

### 4.1 Enable SLM on the MultiView Application

To enable MultiView software as an SLM client:

1. Launch the MultiView application and log in as the **administrator** user.
2. Navigate to **Tools > Options** and select **Study List Manager**.
3. Select one or more of the following options:
  - Enable writing to Study List Manager.
  - Enable reading from Study List Manager.
  - Set Enterprise as the Default login page\*.

\*This option is available when reading from Study List Manager is enabled.

---

**Note**

Typically, sites that use SLM have both the writing and the reading options enabled.

---

4. Select the Security Setting and enter the IP Address and Port for the SLM server.
- 

**Note**

The client settings must match the SLM server settings for MultiView software to communicate with the Study List Manager. Refer to the *MultiView MM Software User Guide* for the configuration options.

---

**Note**

If there are issues with the “Windows Credentials” Security Setting, consult Technical Support or try a different Security Setting option.

---

5. Keep the Synchronization Interval at 10 seconds and select **Apply**.
  6. Select **OK** to acknowledge restart of the MultiView application if the ‘Reading from Study List Manager option has been enabled or disabled’ and to close the dialog box.
  7. Select **OK** to close the Options dialog box and then exit the MultiView application.
  8. Re-launch the MultiView application and verify that SLM is working correctly.
- 

**Note**

If ‘Enable Reading from Study List Manager’ is configured, an **Enterprise** tab appears in the MultiView user interface after re-launching the application. Select the **Enterprise** tab to view the study list. This page is blank at first but is updated based on the synchronization interval.

---



## 5: Additional MultiView Software Configurations

Proceed with the following section to:

- Add a DICOM server on MultiView MM Software.
- Configure the MultiView application window so that it does not span across all the monitors on a SecurView workstation.
- Configure Diskspace Manager for optimal performance.
- Configure auto-logout.
- Configure auto-launch.

### 5.1 Add a DICOM Server

To add a DICOM server:



#### Note

Remote DICOM devices are referred to as “servers” in the MultiView application. You must add a DICOM server to identify each remote DICOM device that sends images to the MultiView application (for example, PACS, modalities).

1. Launch the MultiView application and log in as the **administrator** user.
2. Navigate to the **Servers** pane, right-click **My Servers**, and select **Add server**.

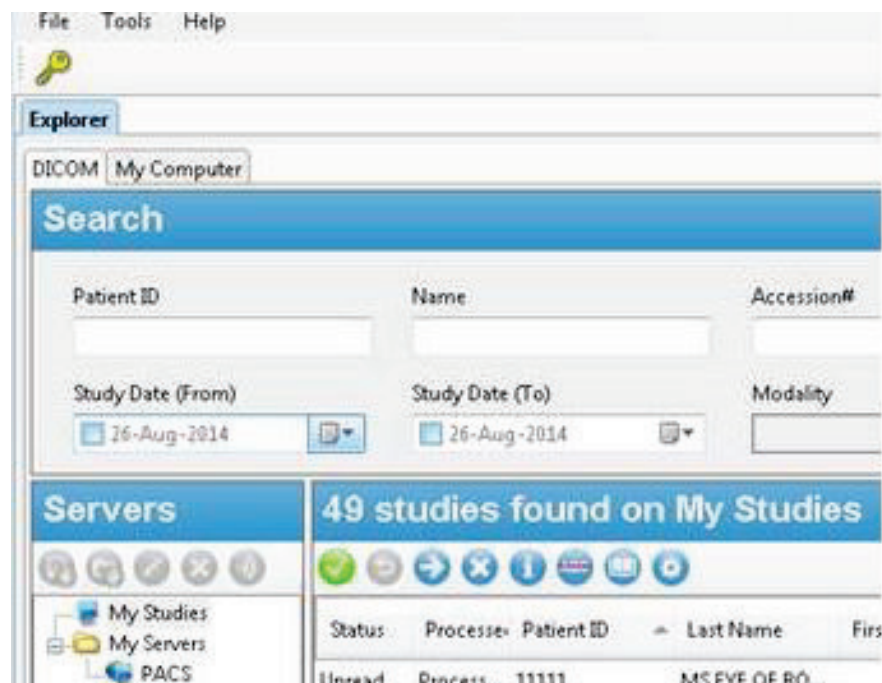


Figure 5: MultiView Servers Pane

3. In the **Add New Server** window, enter the **Server Name**, **Host (IP Address)**, **Location**, **AE Title**, and **Port** of the remote DICOM device, then select **OK**.



### Note

The **Server Name** is the name that appears in the **Servers** pane. **Location** is optional.

---

4. In the **Servers** pane, right-click the device that was added and select **Verify** to perform a DICOM ping if the MultiView software is initiating DICOM communications with the device. Select **OK** to close the C-ECHO Verification dialog box.

## 5.2 MultiView Window Configuration for SecurView Setups

To configure the MultiView application so that it does not span across multiple monitors on a SecurView workstation:

1. Launch the MultiView application and log in as the **administrator** user.
2. Navigate to **Tools > Utilities > Configure Settings**.
3. Select **Sentinel** > **Aegis** > **Desktop** > **View** > **WinForms** > **DesktopFormSettings** from the main window and double-click the **AutomaticallySpanAcrossAllScreens** property.
4. Set the value to **False** in the Edit Value dialog box and select **OK** to save.
5. Exit the MultiView application and restart to confirm the setting change.



### Note

After launching the application, you may need to drag the MultiView window to the desired monitor (for example, the 3rd or 4th monitor) and maximize the window in that monitor for the window to launch in the same location the next time the MultiView application is launched.

---

## 5.3 Diskspace Manager Configuration

To configure the MultiView software so that cleanup is performed at a specific time and is based on the number of studies instead of disk usage:

1. Launch the MultiView application and log in as the **administrator** user.
2. Navigate to **Tools > Options** and select **Diskspace Manager**.
3. Select the checkbox in the Study Count Window and set the number of studies in the **Limit to** field to **500** or less.



### Note

Cleanup is based on the number of studies instead of the disk space usage.

---

4. Select the **Run For** checkbox and set the starting time and number of hours for cleanup.

**Note**

For optimal performance, choose a time when the system is not in use or is not actively receiving images. For example, set the time to 2:00 AM and have cleanup run for one hour.

---

5. Select **Apply** to apply the changes and select **OK** to close the Options dialog box.
6. Exit the MultiView application and restart the MultiView application.

## 5.4 Auto-Logout Configuration

To set the auto-logout timeout value for the MultiView application:

1. Launch the MultiView application and log in as the **administrator** user.
2. Navigate to **Tools > Utilities > Configuration Settings**.
3. In the *Settings Management* window, select **Sentinelle > Aegis > Desktop > Tools > Login > AutoLogoutSettings**.
4. To configure the MultiView logout timer to a specific value, double-click **AutoLogoutTimeMinutes**, change 'CurrentValue' to a new number of minutes, and select **OK** to close the window.

**Note**

The default timeout values for the MultiView application and the SecurView application are different. The default value for MultiView software is 30 minutes, and the default value for SecurView software is 120 minutes. If the MultiView application is not used for most patients, set the value on the MultiView application so that it is compatible with the site SecurView workflow (for example; to a value slightly longer than the average SecurView user session).

---

5. Select **Save All** to save the changes and close the *Settings Management* window.
6. Exit the MultiView application and restart the MultiView application.

## 5.5 Auto-Launch Configuration

To set up the MultiView application for auto-launch after a system reboot:

1. Log into Windows as the user that you want to configure for Auto-Launch.
2. Right-click the **MultiView** shortcut on the desktop and select **Copy**.
3. Open Windows Explorer and navigate to **C:\Users\<Current User>\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup**.
4. Right-click in the *Startup folder* window and select **Paste** to copy over the MultiView shortcut.
5. Close the *Startup* window.



## 6: Complete the Installation

Ensure that an installation report is recorded in H1. For regions outside the US that do not have access to H1, refer to your local procedures.



**Note**

If you are unable to verify that the system is running correctly, contact Technical Support at [BreastHealth.Support@hologic.com](mailto:BreastHealth.Support@hologic.com). Make sure that your email includes a brief description of the issue along with the clinic name and location (city, state, zip).

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