



Cenova™ Image Analytics Server User Guide

Software Version 2.5

MAN-04756 Rev 001



Cenova™ Image Analytics Server 2.5

User Guide

MAN-04756 Rev 001

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MergeCOM-3 Advanced Integrator's
Tool Kit is a product of Merge
Healthcare.

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Chapter 1: Introduction

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- ▶ 1.2. Using This Manual
- ▶ 1.3. Resources Available
- ▶ 1.4. Server Warnings and Precautions

1.1. Overview

This manual provides instructions for operating and maintaining the Cenova Image Analytics Server in the clinical environment. The server processes mammography images using proprietary software algorithms.

The Cenova server is a high-performance application server that provides proprietary software applications to assist radiologists in the analysis of digital mammography images. Cenova is designed to be used by radiologists working in a hospital, outpatient clinic, or a breast imaging center. The server also may be used for research-related activities.

The server can be located in any non-patient environment, provided it is connected to the mammography network. Once configured, little direct interaction with the server is necessary. Any interaction is through a user-friendly web browser interface.

DICOM Conventions

DICOM (Digital Imaging and Communications in Medicine) is an international standard used for developing, transmitting, printing, and archiving medical imaging information. Hologic uses the following DICOM standard designations for digital mammography images:

- DICOM Digital Mammography X-Ray Image – For Processing
- DICOM Digital Mammography X-Ray Image – For Presentation
- DICOM Secondary Capture Image – Raw Projection
- DICOM Secondary Capture Image – Raw C-View

To simplify, this manual shortens these designations to 'For Processing images', 'For Presentation images', 'Raw Projection images', and 'Raw C-View images.'

1.2. Using This Manual

This manual is organized as follows:

- **Chapter 1: Introduction** provides background information on the Cenova server and the manuals.
- **Chapter 2: System Description** provides a summary of image specifications and data formats passed between the Cenova server and other devices that may be installed at your site.
- **Chapter 3: System Operation** provides information about managing clinical workflow, shutting down and powering up the server, accessing UDI information, and using the Cenova Case Manager.

1.3. Resources Available

In addition to this manual, the following resources are available to assist you when working with the Cenova server.

- **Training:** The Hologic Applications team is available to train your staff, should you feel they need additional training. To purchase additional onsite training, contact your Hologic Account Manager.
- **Manuals:** Hologic provides the following manuals for the Cenova server and its applications:
 - *Cenova Image Analytics Server User Guide*
 - *Understanding ImageChecker CAD User Guide*
 - *Understanding ImageChecker 3D Calc CAD User Guide*
 - *Understanding Quantra User Guide*
 - *Understanding BACS User Guide*
 - *Understanding DigitalNow HD User Guide*
 - *Cenova Image Analytics Server Installation & Service Manual*
 - *Cenova Image Analytics Server Release Notes*
 - *Cenova Image Analytics Server DICOM Conformance Statement*
 - *Cenova Image Analytics Server Cybersecurity Product Report*
 - *Cenova Image Analytics Server System Requirements*

You can obtain additional copies of printed manuals through your Hologic Account Manager. You can find the DICOM Conformance Statement and Cybersecurity Product Report on the Hologic website.

- **Technical Support and Service:** For support in North America contact:
 - Toll Free: +1.866.243.2533 (+1.866.CHECKED)
 - Email: sctechsupport@hologic.com
 - Hours: Monday – Friday, 6:00 AM – 5:00 PM, PT (GMT –8:00)
 - Website: www.hologic.com

For support in Europe, South America, or Asia, contact your local dealer or distributor.

1.4. Server Warnings and Precautions



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

⚠ 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.

⚠ Note: Information provided to clarify a particular step or procedure.

Before using the system, read the following warnings and precautions.

1.4.1. System Operation

⚠ WARNING! Observe the following instructions that, if not followed, can result in a hazardous condition:

- The server is intended for use only by personnel who have read this manual and received training on how to use the server. Hologic does not accept responsibility for injury or damage associated with improper or unsafe system operation.
- Use the server only outside the patient environment. The server is rated for use only in an office environment.
- Do not place liquid containers on the device. In the event of a spill, shut down power to all components prior to cleaning to minimize the possibility of electrical shock. If internal components are exposed to liquid, do not operate the device – contact your service representative.

⚠ CAUTION: Always shut down the computer according to the procedures provided in this manual. Improper system shutdown can cause loss of data or damage to the computer operating system.

⚠ Important: Observe the following instructions provided either to ensure correct results and optimal performance, or to clarify limitations of the device.

- For proper system operation, the technical quality of the images (e.g., contrast) should be acceptable to the interpreting radiologist and meet the requirements of the Mammography Quality Standards Act (MQSA) or the appropriate national standards.
- The device design and mode of operation are consistent with current standard mammography clinical practices, as governed by the MQSA. Users are advised to comply with the MQSA for the United States, or the appropriate national standards, when implementing Cenova mammography applications in clinical protocols.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at her or his own expense.

1.4.2. Installation and Maintenance



⚠ WARNING! Observe the following instructions that, if not followed, can result in a hazardous condition:

- The symbol next to the power connector indicates a potential shock hazard. To reduce the likelihood of electrical shock or fire hazard, connect the computer only to a power receptacle that is properly grounded and provides voltage and current within the specifications of the server.
- To connect primary power to the server, always use a three-conductor grounded power cable that meets local regulatory standards. Use of a two-prong adapter disconnects the utility ground and creates a severe shock hazard.
- Cenova servers are heavy! If you have any concerns about lifting or positioning the server, request assistance.
- Before cleaning the server, always shut down the server according to the procedures in this manual and disconnect the power cord to prevent electrical shock. Never use alcohol, benzene, thinner, or other flammable cleaning agents.

⚠ CAUTION: This product contains no user-serviceable parts. To prevent damage to the server:

- Maintain equipment in a well-ventilated, air-conditioned environment that meets the temperature and humidity specifications provided in the product service manual.
- Do not install or repair the Cenova server. Only trained personnel, authorized by Hologic, are qualified to install or repair the server.
- Disconnect power cord before moving or servicing.
- Install the server behind the institution firewall for network security and antivirus protection. Hologic provides no computer virus protection or network security for the server. If antivirus software is required, visit the Hologic website for information on Hologic's cybersecurity program and antivirus software installation guidance.

Chapter 2: System Description

- ▶ 2.1. Inputs to Cenova
- ▶ 2.2. Results from Cenova
- ▶ 2.3. Data Flows

This chapter describes the flow of data passed between Cenova and other devices that may be installed at your site.

2.1. Inputs to Cenova

- ▶ 2.1.1. Input Devices
- ▶ 2.1.2. Image Formats
- ▶ 2.1.3. Input Ports and Application Licenses

2.1.1. Input Devices

The server supports inputs from the types of devices listed below. Certain in-country restrictions may apply.

- **Full Field Digital Mammography Systems:** Cenova processes two-dimensional digital mammography images originating from Full-Field Digital Mammography (FFDM) image acquisition systems. Cenova supports inputs from FFDM devices manufactured by Hologic Inc. (Bedford, MA), GE Healthcare (Waukesha, WI), and Siemens AG (Munich, Germany).
- **Digital Breast Tomosynthesis Systems:** Cenova processes 3D Mammography™ datasets and C-View™ 2D images originating from Hologic Selenia® Dimensions® systems.
- **Film Digitizing Systems:** For film mammograms, Cenova processes DigitalNow images originating from any of Hologic's film-scanning systems.

In addition, images produced by any of these systems may be sent to Cenova from a Picture Archiving and Communication System (PACS).

For more information about supported input devices, see the manual for the specific software application.

2.1.2. Image Formats

The Cenova server processes digital mammography image objects that conform to the DICOM standard. The server processes the following types of DICOM image objects:

- Image objects sent to Cenova by an FFDM system following a conventional mammography examination known as *For Processing* images (also referred to as 'raw' 2D images).
- Image objects sent to Cenova by Hologic 3D Mammography™ systems known as *Raw Projection* images.
- Image objects sent to Cenova by Hologic 3D Mammography™ systems known as *Raw C-View* images.
- Image objects sent to Cenova by any of the Hologic film-digitizing systems known as *For Presentation* images.

Some DICOM image objects are not processed by the software, depending upon the application and mammography view shown in the image.

For more information on image formats, see the diagrams in [2.3. Data Flows](#).

2.1.3. Input Ports and Application Licenses

Each device that produces digital mammography image files maps to an input port on the Cenova server. The DICOM header for each image object includes an identifier (e.g., a serial number) that indicates the device from which the image originated.

For each Cenova server, sites can support:

- Up to four licenses for any or all of the 2D software applications plus a single license for DigitalNow HD, or
- Up to two licenses for ImageChecker 3D Calc CAD, or
- A single license for DigitalNow HD

Note that exceeding these guidelines with a single server can affect system response times.

Each Cenova software application requires one software license for each input device. For example, if there are four FFDM devices, then the Cenova server must be configured with four software licenses for each desired Cenova software application.

The Cenova server can also process images sent from any number of PACS devices, as long as the images originated from one of the licensed input devices.

For assistance with license configurations, contact your Hologic Account Manager.


2.2. Results from Cenova

Cenova sends its results to diagnostic review workstations (such as Hologic SecurView DX) and PACS devices. Depending upon the application, Cenova can transmit results in one or more forms. The table below shows output formats for each application.

Application	CAD SR	SC Image	RTSS	Printer	MG Image
ImageChecker CAD (2D)	✓	✓	✓	✓	
ImageChecker 3D Calc CAD		✓			
Hologic Imaging Biomarkers	✓	✓			
DigitalNow HD					✓

- **CAD SR** – The Mammography CAD SR format is the DICOM standard used for ImageChecker CAD and/or Hologic Imaging Biomarker results.
- **SC Image** – Mammography CAD SC (Secondary Capture) provides the case-processed views (normally the four screening views) with ImageChecker CAD, Hologic Imaging Biomarkers, or proprietary ImageChecker 3D Calc CAD results. For ImageChecker CAD and Hologic Imaging Biomarkers, this format is for workstations that do not support Mammography CAD SR.
- **RTSS** – The Radiotherapy Structure Set format was developed specifically to display ImageChecker CAD results on certain GE review workstations.
- **Printer** – This format provides ImageChecker CAD results for the case-processed views (normally the four screening views).
- **MG Image** – This format (DICOM Digital Mammography X-Ray Image – For Presentation) provides DigitalNow HD images.

For workstations and PACS devices that do not support ImageChecker CAD Mammography CAD SR objects but do support DICOM 6000 overlays, Hologic's DICOM 6000 Interface solution can be used to convert the ImageChecker CAD results (see [2.3.2. ImageChecker CAD with DICOM 6000 Data Flow](#)). For more information, contact your Hologic Account Manager.

 **Note:** DICOM 6000 version 1.1.7 is required to support CAD on C-View 2D image results as DICOM 6000 overlay.

 **Note:** DICOM 6000 Interface version 1.1.7 may reside on a Cenova server.

2.3. Data Flows


This section describes how information flows among the various devices for the Cenova applications, as listed below.

- ▶ **2.3.1. ImageChecker CAD Data Flow**
- ▶ **2.3.2. ImageChecker CAD with DICOM 6000 Data Flow**
- ▶ **2.3.3. ImageChecker 3D Calc CAD Data Flow**
- ▶ **2.3.4. Hologic Imaging Biomarkers Data Flow**
- ▶ **2.3.5. DigitalNow HD Data Flow**

Note that mammography systems may have different configurations, depending upon the devices installed at your site.

2.3.1. ImageChecker CAD Data Flow

The diagram below shows how information typically flows through systems with ImageChecker CAD.

 **Note:** ImageChecker CAD also applies to C-View 2D images. Raw C-View images are sent to the Cenova server. Corresponding Breast Tomosynthesis Image or For Presentation images are sent to the diagnostic review workstation(s) and PACS.


 **Note:** When both conventional 2D mammography and C-View 2D images are sent to Cenova for a ComboHD study, the Cenova server will produce separate ImageChecker CAD results for the conventional 2D mammography and C-View 2D images, respectively.

Image Acquisition System(s)

1, 2, 3: FFDM systems can be configured to send digital mammography x-ray images to any device that conforms to the DICOM standard. The FFDM device sends two types of images, For Processing images to the Cenova server, and For Presentation images to the diagnostic review workstation(s) and PACS.

Cenova Server

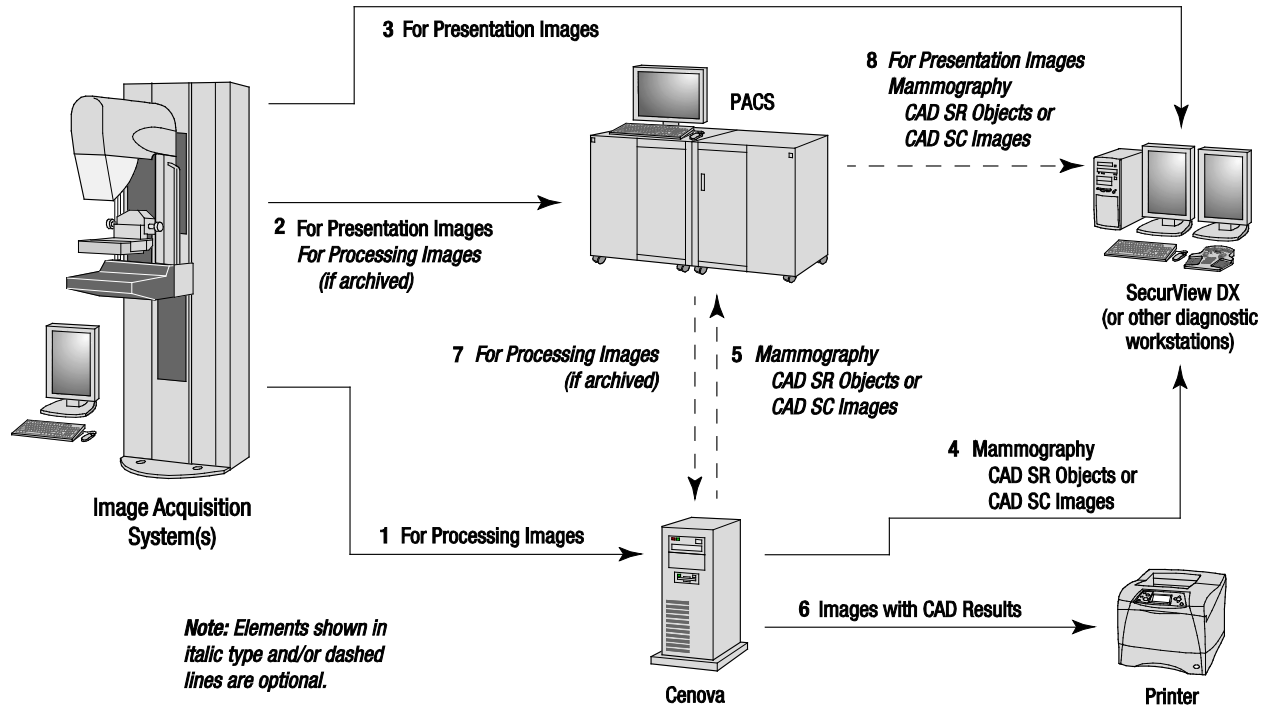
4, 5, 6: The Cenova server sends results (for example, Mammography CAD SR objects or CAD SC images) to one or more diagnostic review workstation(s) and/or PACS devices. The Cenova server can also provide printed results showing the four case-processed views with CAD marks.

Diagnostic Review Workstation(s) and PACS

3, 4, 8: The review workstation(s) are configured to receive the For Presentation images (3, 8) and ImageChecker CAD results (4, 8), which are then reviewed by the radiologist.

7, 8: The PACS can be configured to send:

- For Processing images to Cenova (7), which processes the images and distributes the CAD results according to its configuration, and/or
- ImageChecker CAD results and/or For Presentation images to the review workstations (8).



ImageChecker CAD Data Flow

2.3.2. ImageChecker CAD with DICOM 6000 Data Flow

Typically, diagnostic review workstations and PACS devices support the Mammography CAD SR results format. If the review workstation or PACS does not support Mammography CAD SR, but does support DICOM 6000 overlays, a supplementary interface solution can be installed. For more information about the Hologic DICOM 6000 interface option, contact your Hologic Account Manager.

Image Acquisition System(s)


1, 2, 3, 4: The FFDM device sends For Processing images to the Cenova server, and For Presentation images to the diagnostic review workstation(s), PACS, and DICOM 6000 Interface.

Cenova Server

5: The Cenova server sends CAD results in DICOM Mammography CAD SR format to the DICOM 6000 Interface. No images need be forwarded.

DICOM 6000 Interface

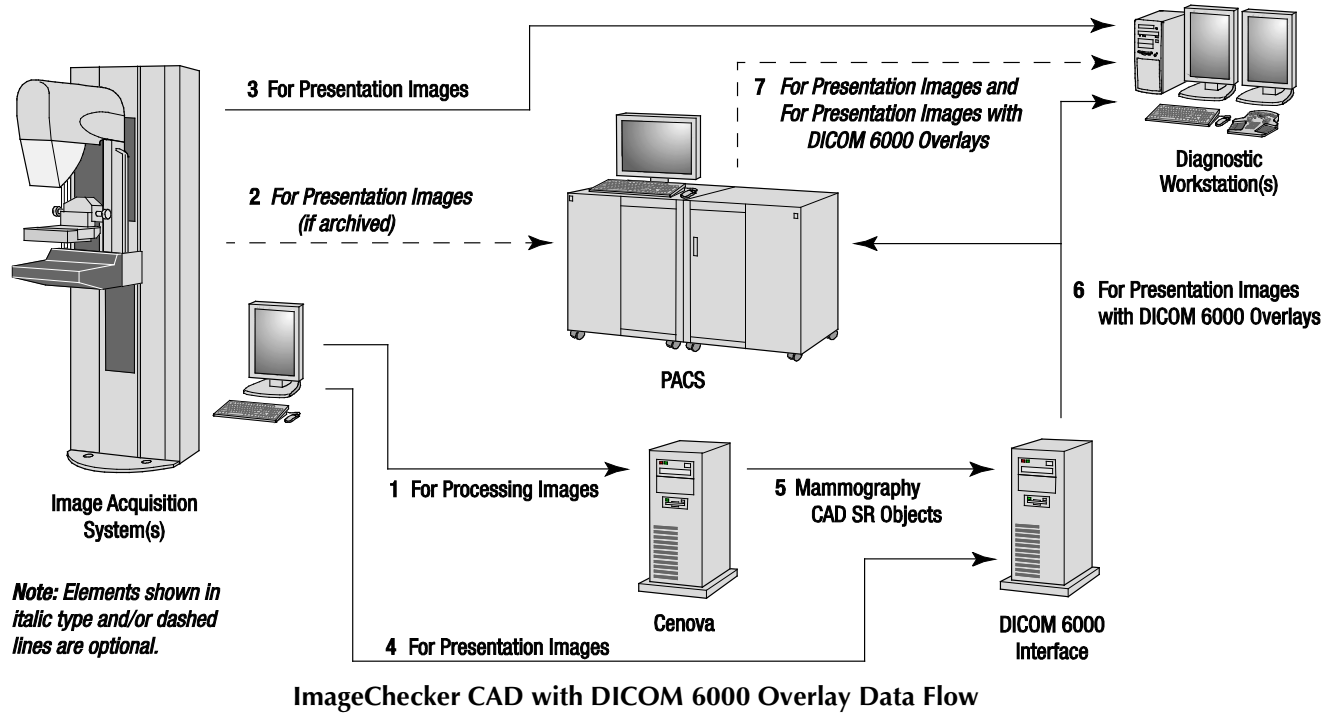
6: The DICOM 6000 Interface sends the images with DICOM 6000 CAD results overlays to the diagnostic workstation for review and to the PACS for storage.

 **Note:** The DICOM 6000 Interface may reside on a Cenova server.

Diagnostic Review Workstation(s) and PACS

3, 6: The review workstation receives the For Presentation images and the For Presentation images with DICOM 6000 CAD results overlays, which then can be reviewed by the radiologist.

7: If results are stored on a PACS, then they can be retrieved and sent to the review workstation at any time.



2.3.3. ImageChecker 3D Calc CAD Data Flow

This section describes the data flows among the various devices Hologic 3D Mammography™ imaging and review. To follow the data flows, refer to the diagram below.

Image Acquisition System(s)

1, 2, 3: Hologic 3D Mammography™ systems can be configured to send 3D Mammography™ datasets to any compatible device. For CAD purposes, the 3D Mammography™ device sends two types of images, Raw Projection images to the Cenova server, and Reconstructed Slices to the diagnostic review workstation(s) and PACS.

Cenova Server

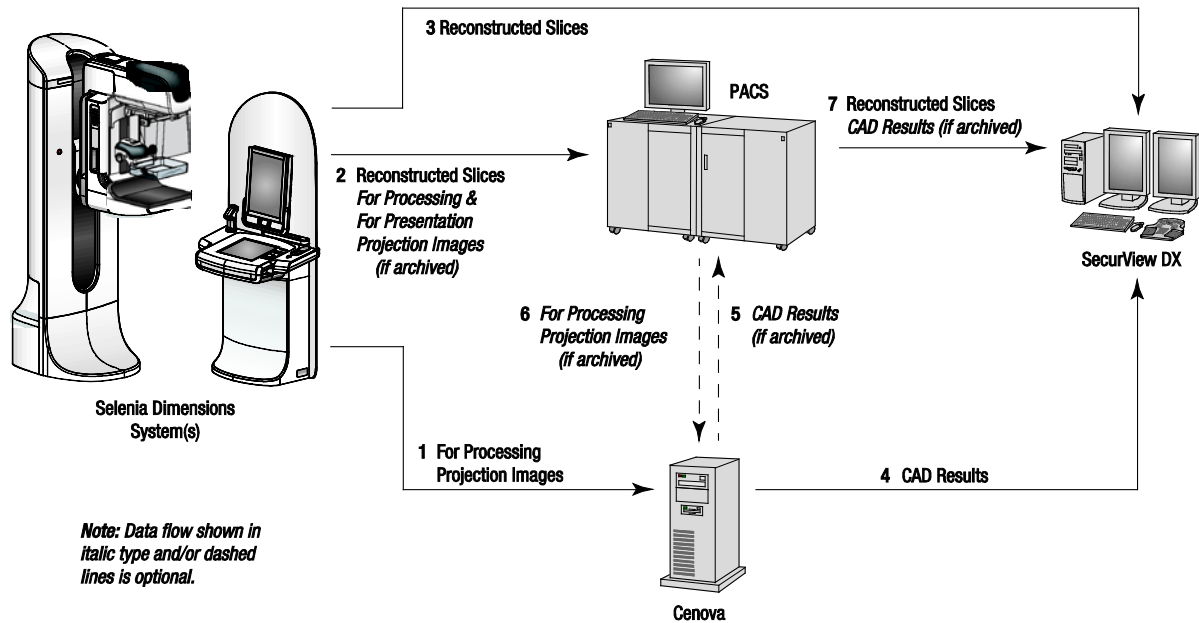
4, 5: The Cenova server sends CAD results to one or more diagnostic review workstation(s) and/or PACS devices. The results are encoded in a proprietary manner within a DICOM Secondary Capture Image object. Only Hologic SecurView can interpret the Cenova output. No DICOM format is available for interoperable encoding of 3D Mammography™ CAD results at this time.

Diagnostic Review Workstation(s) and PACS

3, 4, 7: The review workstation(s) are configured to receive the Reconstructed Slices (3, 7) and ImageChecker 3D Calc CAD results (4, 7), which are reviewed by the radiologist.

6, 7: The PACS can be configured to send:

- Projection images to Cenova (6), which processes the images and distributes the CAD results according to its configuration, and/or
- ImageChecker 3D Calc CAD results and/or Reconstructed Slices to the review workstation(s) (7).



ImageChecker 3D Calc CAD Data Flow

2.3.4. Hologic Imaging Biomarkers Data Flow

The figure below shows the data flows among the various devices for the Quantra and BACS applications.



 **Note:** When both conventional 2D mammography and Raw Projection images are sent to Cenova for a Combo or ComboHD study, the Cenova server will produce one set of Quantra results for either the 2D or 3D images, per Cenova configuration.

Image Acquisition Device(s)

1, 2, 3: The FFDM device sends For Processing images to the Cenova server, and For Presentation images to the diagnostic review workstation(s) and PACS. The Hologic 3D Mammography™ device sends Raw Projection images to the Cenova server, and Reconstructed Slices to the diagnostic review workstation(s) and PACS.

Cenova Server

4, 5: The Cenova server sends Hologic Imaging Biomarker results (DICOM SR objects or DICOM SC images) to one or more diagnostic review workstation(s) and/or PACS devices simultaneously.

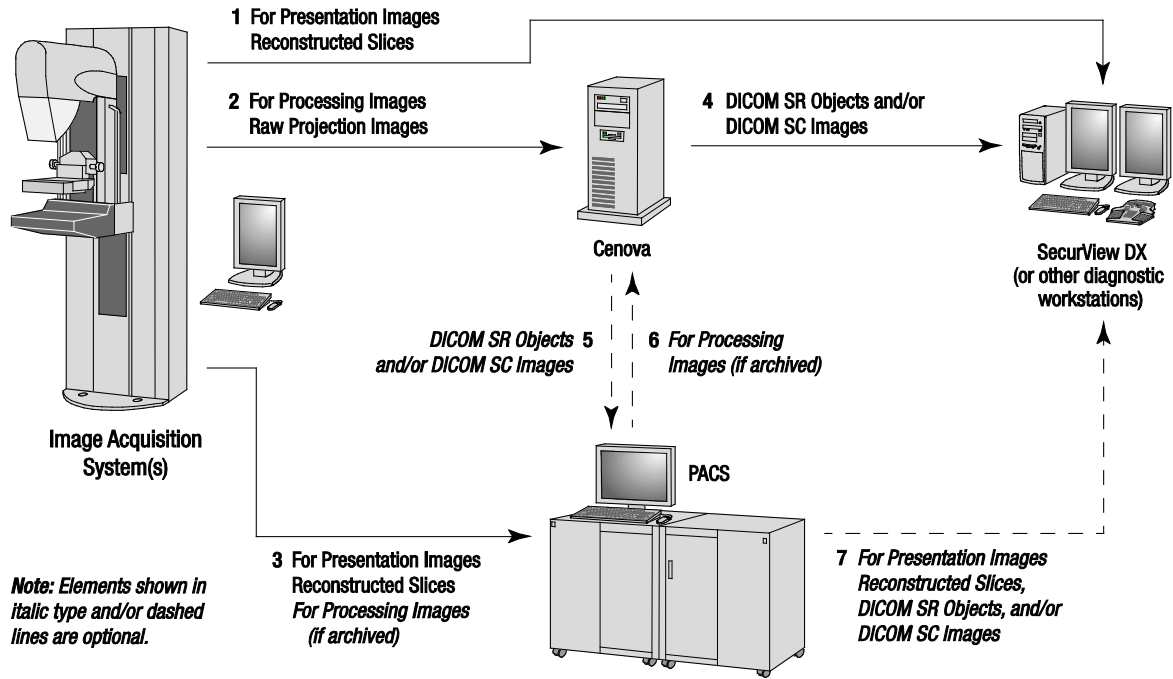
 **Note:** Because of the complex nature of DICOM SR objects, it is likely that only the Hologic SecurView DX workstation will display Biomarker SR objects in the near term. It is for this reason that the Cenova server can be configured instead to send Biomarker results as DICOM Secondary Capture images.

Diagnostic Review Workstation(s) and PACS

1, 4, 7: The review workstation(s) are configured to receive the For Presentation images, Reconstructed Slices, and Biomarker results, which are then reviewed by the radiologist.

6, 7: As an option, the PACS can be configured to send:

- For Processing images to Cenova (6), which processes the images and distributes the Biomarker results according to its configuration, and/or
- Biomarker results and/or For Presentation images to the review workstations (7).



Hologic Imaging Biomarkers Data Flow

2.3.5. DigitalNow HD Data Flow

The figure below shows the data flows among the various devices.

Source Image Device

1: The Hologic film scanning system sends DigitalNow For Presentation images to the Cenova server.

Cenova Server

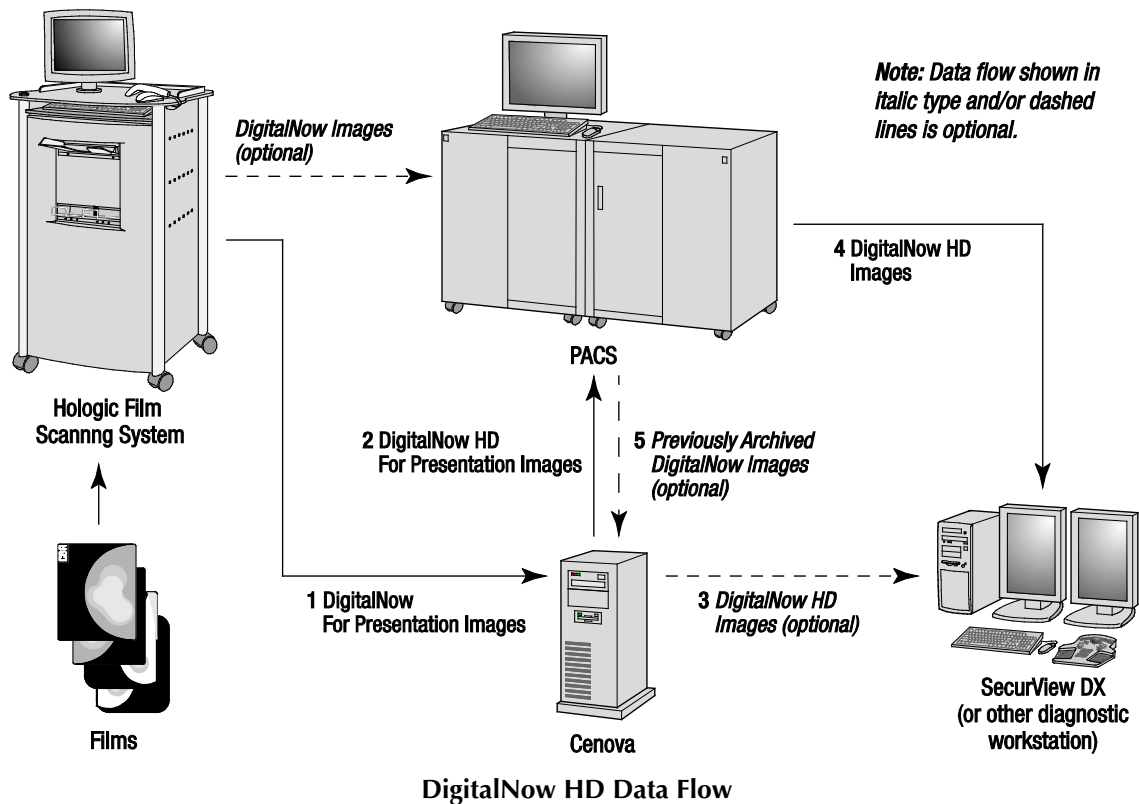
2: The Cenova server processes the images and sends new DigitalNow HD For Presentation images to a PACS device.

3: As an option, the server can also send the images directly to one or more diagnostic review workstation(s).

Diagnostic Review Workstation(s) and PACS

4: The PACS is configured to send the For Presentation DigitalNow HD images to one or more review workstation(s). The radiologist can then review the images.

5: Depending upon the needs of the site, the PACS can also be configured to send previously archived DigitalNow images to the Cenova server.



Chapter 3: System Operation

- ▶ **3.1. Clinical Workflow**
- ▶ **3.2. Sending Images to the Server**
- ▶ **3.3. Server Startup and Shutdown**
- ▶ **3.4. Accessing Unique Device Identifier (UDI) Information**
- ▶ **3.5. Using Case Manager**

Once configured, little direct interaction with the Cenova server is necessary. Any interaction with the server is through a web browser and a user-friendly interface.

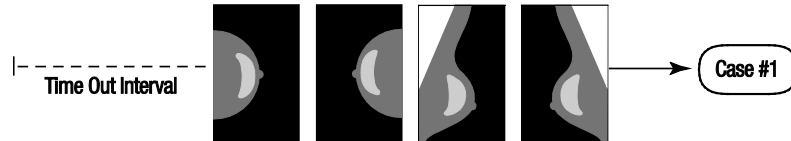
3.1. Clinical Workflow

To view results produced by the Cenova server with the patient's mammography images, follow the guidelines of your workstation vendor. Radiologists typically review mammography images using a protocol similar to the sequence shown in the following table:

For this step...	The radiologist...
Preliminary Review	Reviews the mammography images to get a preliminary sense of the patient's status.
DigitalNow HD	Compares prior digitized film images to the new mammography images.
Hologic Imaging Biomarkers	Reviews and notes the Biomarker findings.
Preliminary Assessment	Examines the mammography images in detail and forms a primary diagnosis.
Computer Aided Detection	Views CAD marks and evaluates related ImageChecker data to determine if other areas on the images warrant further review.
Final Assessment	Makes a final assessment and creates a report.

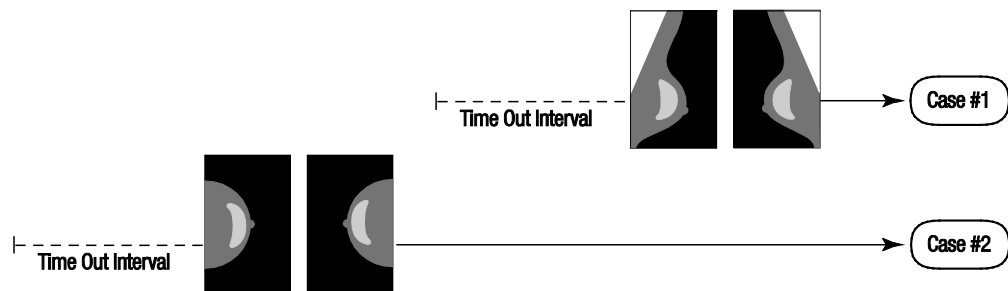
3.2. Sending Images to the Server

The server accepts the images automatically as they are sent from the image acquisition system, film-scanner, or archiving device. The Cenova server groups successive images with the same DICOM study instance UID (unique identifier) into a case if the images are received within a time-out period configured by the service representative upon system installation. The time-out period is not fixed; the server automatically adjusts the time-out period to maximize throughput. (For more information, contact Hologic Technical Support.)



Server Assigns Images Received Before Timeout Elapses to One Case

The server assigns any image received after the time-out period to a new case using the same study instance UID. At the review workstation, two sets of results will be seen, distinguishable by the date and time they were produced by the server.



Server Assigns Images Received After Timeout Elapses to a New Case

To reduce the possibility of multiple results, Hologic recommends that images for each patient examination be sent from the image acquisition system together at the close of the study and in rapid succession.

Note: As an alternative, the server can be configured to group all images with the same study instance UID automatically into a single case, no matter when they were received (i.e., include images from a previous case). For more information, consult with a technical support representative.

It is the service representative's responsibility to set up your system such that the images are sent correctly to the server in addition to the review workstation and to the desired final destinations. For more about the data flow among the various devices, see [2.3. Data Flows](#).

3.3. Server Startup and Shutdown

The Cenova server does not require regular maintenance. The only procedures you might need to perform are:

- ▶ **3.3.1. Shutting Down the Server**
- ▶ **3.3.2. Starting Up the Server**
- ▶ **3.3.3. Restarting the Server** (turning off and on again)

For these procedures, you need to know the IP address for the computer. You can get the IP address from the Cenova System Settings – Connectivity screen. Write that number here:

Cenova Server IP Address: _____

Note: Use these procedures when DICOM 6000 Interface is installed on a Cenova server.

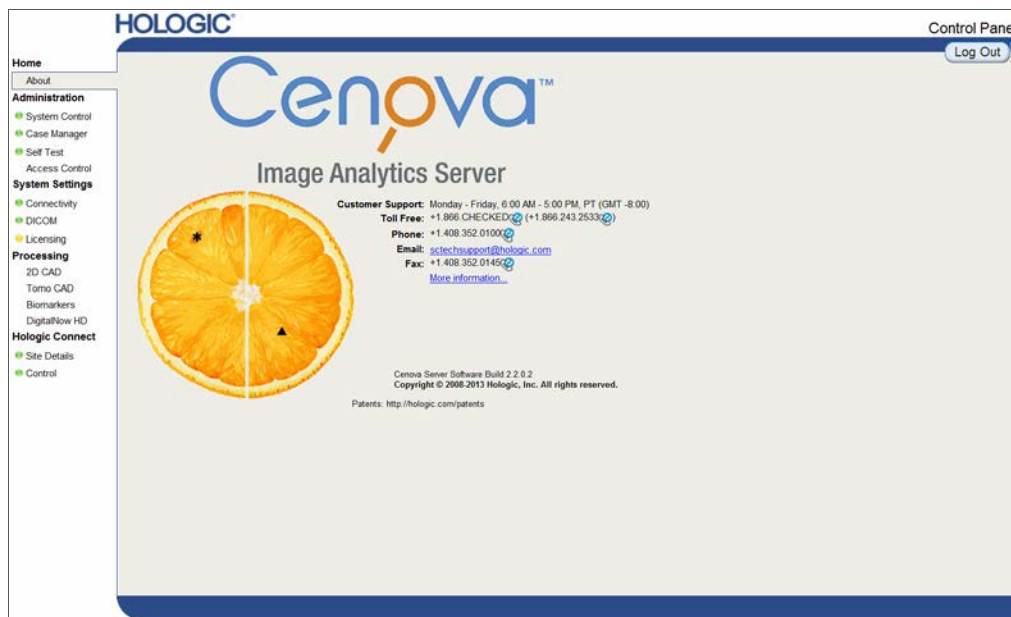
3.3.1. Shutting Down the Server

You might need to shut down the Cenova server if you are going to move the computer, or if you know the power is going out for a period of time.

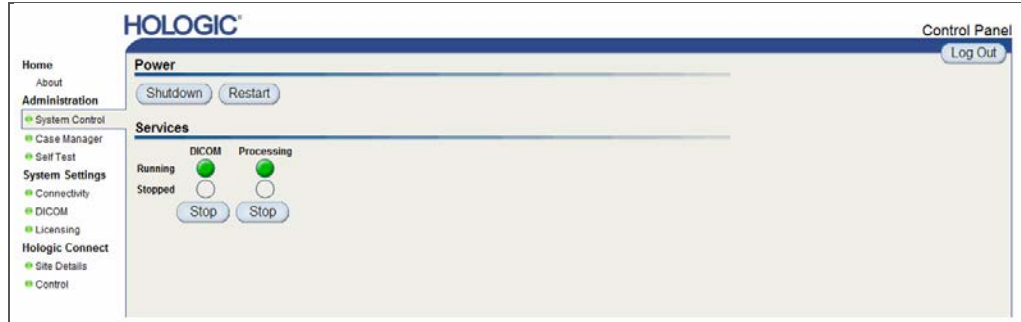
Important! If you shut down the server from a remote location, be aware that In order to switch the server back on, you will need to have physical access to the server.

▶ **To shut down the server:**

- 1 Using a computer that is on the same network as the server, open a web browser (e.g., Internet Explorer).
- 2 Type the IP address for the server in the address box and press [Enter]. You do not need to type 'http' or anything other than the IP address.
- 3 At the log-in screen, enter the user name (siteadmin) and password. The About screen should appear as shown below.



- 4 Click **System Control** to display the following screen:



Shutdown

- 5 Click **Shutdown**. The server prompts 'Are you sure...?' Click **OK** to switch the server off.

Note: Physical access to the server is required to restore power from a shutdown. If the server is in a remote location, use **Restart**.

3.3.2. Starting Up the Server

If the server has been powered off, you can switch it back on by pressing the power switch on the front of the computer. (An indicator light indicates whether the server is on or off.) The Cenova software starts up automatically, and the server should be ready for use within 3–5 minutes.

3.3.3. Restarting the Server

You might need to restart the Cenova server if results are not transferring. Often, restarting the server clears any errors. In some cases, your service representative will ask you to restart the server.

► **To restart the server:**

- 1 Using a computer that is on the same network as the Cenova server, open a web browser.
- 2 Type the IP address for the Cenova server in the address box and press **[Enter]**. You do not need to type 'http' or anything other than the IP address.
- 3 At the log-in screen, enter the user name ('Administrator') and password. The About screen should appear as shown in the previous procedure.
- 4 On the About screen, click **System Control**.
- 5 From the System Control screen, click **Restart**. The server prompts 'Are you sure...?' Click the Restart button once more. The server should shut down and then restart automatically. The server should be ready for use within about 5 minutes.

Restart

Note: To continue using the server, refresh the browser by repeating steps 1–3.

3.4. Accessing Unique Device Identifier (UDI) Information

Unique Device Identifier (UDI) is a unique numeric or alphanumeric code that identifies a medical device through distribution and use. UDI information is displayed in the About screen of the Cenova application.

► **To access UDI information in Cenova:**

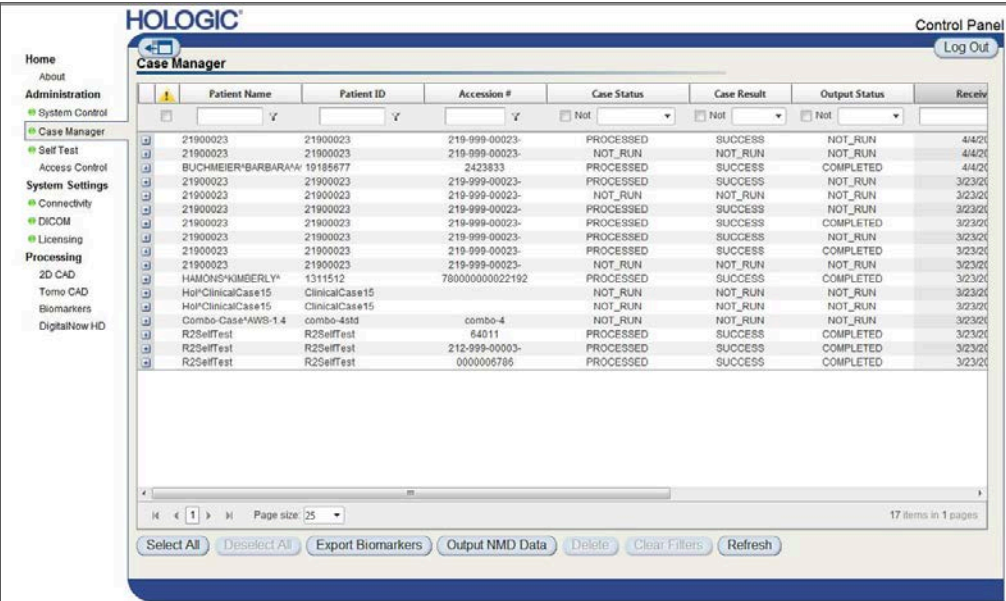
- 1 Launch the Cenova application and log in (see [3.3. Server Startup and Shutdown](#)). The About screen appears.
- 2 On the About screen, click **More Information**.
UDI information is displayed on the subsequent screen.

3.5. Using Case Manager

Case Manager allows you to display, analyze, and troubleshoot cases from within the Cenova Control Panel. You can use Case Manager to:

- Browse and sort cases
- Search for a study using data such as patient information, date processed, etc.
- Export Biomarker results
- Delete cases
- Review details for a study

When you select the Case Manager option from the Cenova control panel, a screen similar to the following appears:



	Patient Name	Patient ID	Accession #	Case Status	Case Result	Output Status	Receive
<input type="checkbox"/>				<input type="checkbox"/> Not	<input type="checkbox"/> Not	<input type="checkbox"/> Not	
<input type="checkbox"/>	21900023	21900023	219-999-00023-	PROCESSED	SUCCESS	NOT_RUN	4/4/20
<input type="checkbox"/>	21900023	21900023	219-999-00023-	NOT_RUN	NOT_RUN	NOT_RUN	4/4/20
<input type="checkbox"/>	BUCHMEIER*BARBARA**	19185677	2423833	PROCESSED	SUCCESS	COMPLETED	4/4/20
<input type="checkbox"/>	21900023	21900023	219-999-00023-	PROCESSED	SUCCESS	NOT_RUN	3/23/20
<input type="checkbox"/>	21900023	21900023	219-999-00023-	NOT_RUN	NOT_RUN	NOT_RUN	3/23/20
<input type="checkbox"/>	21900023	21900023	219-999-00023-	PROCESSED	SUCCESS	NOT_RUN	3/23/20
<input type="checkbox"/>	21900023	21900023	219-999-00023-	PROCESSED	SUCCESS	COMPLETED	3/23/20
<input type="checkbox"/>	21900023	21900023	219-999-00023-	PROCESSED	SUCCESS	NOT_RUN	3/23/20
<input type="checkbox"/>	21900023	21900023	219-999-00023-	PROCESSED	SUCCESS	COMPLETED	3/23/20
<input type="checkbox"/>	21900023	21900023	219-999-00023-	NOT_RUN	NOT_RUN	NOT_RUN	3/23/20
<input type="checkbox"/>	HAMONS*KIMBERLY*	1311512	780000000022192	PROCESSED	SUCCESS	COMPLETED	3/23/20
<input type="checkbox"/>	HolClinicalCase15	ClinicalCase15		NOT_RUN	NOT_RUN	NOT_RUN	3/23/20
<input type="checkbox"/>	HolClinicalCase15	ClinicalCase15		NOT_RUN	NOT_RUN	NOT_RUN	3/23/20
<input type="checkbox"/>	Combo-Case*AWS-1.4	combo-4std	combo-4	NOT_RUN	NOT_RUN	NOT_RUN	3/23/20
<input type="checkbox"/>	R2SelfTest	R2SelfTest	64011	PROCESSED	SUCCESS	COMPLETED	3/23/20
<input type="checkbox"/>	R2SelfTest	R2SelfTest	212-999-00003-	PROCESSED	SUCCESS	COMPLETED	3/23/20
<input type="checkbox"/>	R2SelfTest	R2SelfTest	00000005786	PROCESSED	SUCCESS	COMPLETED	3/23/20

By default, the cases appear in reverse chronological order (newest first). The records are arranged in rows and columns. Each row shows one case.

Click **Hide Navigation Panel** to expand the Case Manager viewing window.



► **To browse and sort cases:**

You can sort the values in any column by clicking any of the column headings (Patient Name, Patient ID, etc.). The server sorts the values in ascending order either alpha-numerically or by date and time, depending upon the type of data to be sorted. Click the column heading again to sort in descending order.

Patient Name	Patient ID	Accession #	Case Status	Case Result
<input type="text"/> ▼	<input type="text"/> ▼	<input type="text"/> ▼	<input type="checkbox"/> Not <input type="text"/> ▼	<input type="checkbox"/> Not <input type="text"/> ▼

► **To search for a study:**

In any of the column heading boxes, enter text or numbers you want to find and press **[Enter]**. The server searches its database and returns only studies with values containing the characters you typed.

To remove the filter, click the **Filter Icon** ▼ and click **NoFilter** in the drop-down list:

Patient Name	Patient ID
<input type="text" value="Loretta"/> ▼	<input type="text"/> ▼
Lords^Loretta 1	

NoFilter
 Contains

For some columns, you can exclude a search criterion by using the 'Not' box:

Algorithm
<input checked="" type="checkbox"/> Not <input type="text"/> ▼
DigitalNowHD
MAMMO
DigitalNowHD
DigitalNowHD
DigitalNowHD
MAMMO

Clear Filters

To clear selected search criteria, click **Clear Filters**.

► **To export Biomarker results:**

Export Biomarkers

You can collect Biomarker results and export the results to a .csv file, which can be opened using a spreadsheet application. To use this feature, the server must be configured with a valid Hologic Imaging Biomarkers license.

- 1 Select one or more cases using the Case Manager search function. If you do not select any cases, then the server will export all Biomarker results.
- 2 Click **Export Biomarkers** to display the File Download window.
- 3 Click **Save**. In the Save As window, navigate to the location where you wish to save the file and click **Save**.

► **To delete cases:**

Display the case you want to delete and click the checkbox next to the case:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Anonymous^Female 1946
--------------------------	-------------------------------------	-----------------------

Delete

Then, click **Delete**.

► **To review details for a study:**

Click  to expand the case and review the Images and Output Jobs details:













87800006

87800006


PROCESSED


SUCCESS

Images:4

	Image ID	View	View Modifier	Case Processing	State	
	92	RCC			PROCESSED	
	93	LCC			PROCESSED	
	94	LMLO			PROCESSED	
	95	RMLO			PROCESSED	

Output Jobs:1

	Job ID	Format	Destination	Status	
	40	5.X SR - CAD	DVT_STORE2	Complete	

Click  to view additional details for each image.

Case ID: 26, View: LCC

Case		Image	
Case ID	26	Image ID	90
Patient Name	10100191	View	LCC
Patient ID	10100191	View Modifier	
Study Date	20060508	State	PROCESSED
Algorithm	MAMMO	Start Time	1/31/2009 12:45:47 AM
Case Result	SUCCESS	End Time	1/31/2009 12:46:11 AM

AlgoName	Result
Masses	SUCCESS
Calcifications	SUCCESS
Volumetric Assessment	SUCCESS

ImageDetails.aspx?id=90

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