VistA Imaging

Clinical Display User Manual

January 2012 – Revision 3

MAG*3.0*121

Department of Veterans Affairs
Office of Enterprise Development
Health Provider Systems

Clinical Display Workstation User Manual
VA Imaging MAG*3.0*121
January 2012

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VistA Imaging Office of Enterprise Development

Department of Veterans Affairs

Internet: http://www.va.gov/imaging
VA intranet: http://vaww.va.gov/imaging

Revision History

Date	Rev	Notes
August 2010	1	Initial draft. Eddie Null. Dot White
July 2011	2	Revision for Patch 117. Hima Suri
January 2012	3	Updated for Patch 121: Added section *Watermarked Images for Rescinded Advance Directives*. C. Gilbert, Hima Suri. Lina Scorza.

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Introduction

This manual explains how to use the Clinical Display software as of the Patch 94 release for viewing patient images. Clinical Display is a part of the Veterans Health Information System and Technology Architecture (VistA) Imaging System. Clinical and administrative staff responsible for providing patient care and maintaining patient's electronic medical records should use this manual. This manual assumes that you are familiar with the Windows environment.

This manual introduces you to the Clinical Display application and explains how to navigate and complete the following tasks:

- *Signing in to Clinical Display*
- *Selecting a Patient*
- *Working with the Image List*
- *Working with Abstracts*
- *Viewing Patient Images at Remote Sites*
- *Printing and Copying Images*
- *Configuring User Preferences for the Image List and Abstracts*
- *Displaying Reports*

Supporting information is provided in the following appendixes:

- *Appendix A: Shortcut Key Legend* to navigate in the interface
- *Appendix B: Clinical Display Security Keys* list for restricted tasks
- *Appendix C: Deleting Images* to delete single images and group images
- *Appendix D: Clinical Context Object Workgroup* on CCOW compliance
- *Appendix E: For System* Managers for access to all functionality in Clinical Display

Terms of Use

In compliance with Food and Drug Administration (FDA) and VA policies, authorization to use this software is contingent on the execution of a Site Agreement between the VistA Imaging Office of Enterprise Development (OED) group and the site where this software is installed.

In addition to any restrictions noted in the Site Agreement, the following restrictions apply.

Caution: Federal law restricts this device to use by or on the order of either a licensed practitioner or persons lawfully engaged in the manufacture or distribution of the product.

The FDA classifies VistA Imaging as a medical device. Unauthorized Modifications to VistA Imaging, including the Clinical Display software, will adulterate the medical device. The use of an adulterated medical device violates US federal law (21CFR820).

Clinical Display is not intended for the primary interpretation of radiology exams or EKG waveforms. When Clinical Display is installed on approved and properly maintained hardware, primary interpretation of other image types is permissible by licensed practitioners at their discretion.

Conventions

This manual uses the following conventions:

-
- Controls, options, and button names are shown in **Bold**.
- A vertical bar is used to separate menu choices. For example: "**Select File | Open**" means: "Click the **File** menu, and then select the **Open** option."
- Keyboard key names are shown in bold and in brackets.
- When this document is used online, hyperlinks are indicated by blue text.
- Useful or supplementary information is shown in a Tip.
- Important or required information is shown in a Note.
- Critical information is indicated by: ⚠

Acronyms

Acronym	Definition
CCOW	Clinical Context Object Workgroup
CPRS	Computerized Patient Record System
DICOM	Digital Imaging and Communications in Medicine
DoD	Department of Defense (DoD)
EKG	Electrocardiogram
FAQ	Frequently Asked Questions
FDA	Food and Drug Administration
HIMS ROI	Health Information Management Services Release of Information (department)
ID	Identifier or Identification
OED	Office of Enterprise Development
QA	Quality Assurance
QI	Questionable Integrity
RIV	Remote Image Views
SSN	Social Security Number
TGA	Targa Image
TIU	Text Integration Utility
US	United States
VA	Veteran Affairs
VHA	Veteran Health Administration
VistA	Veterans Health Information System and Technology Architecture

Related Information

Additional information about VistA Imaging Clinical Display can be found in the following documents:

- Imaging System User Manual
- Imaging System Technical Manual
- Imaging System Installation Guide
- The Document Imaging web page
- HIMS FAQ Page

Getting Help

If you encounter any problems with Clinical Display, contact your Imaging Coordinator for assistance. If the problem cannot be resolved locally, Imaging Coordinators can log a Remedy ticket or call the National Help Desk at 1-888-596-4357.

Getting Started

This chapter provides how-to instructions for the following operations:

- *Using Clinical Display*
- *Signing in to Clinical Display*
- Navigating the *VistA Imaging Display Main Window*
- *Selecting a Patient*

Using Clinical Display

At most sites, Clinical Display is started from the CPRS tools menu. The functionality of Clinical Display behaves the same way whether the application is started from CPRS or from the desktop.

Signing in to Clinical Display

When you start the application from CPRS, you are automatically signed in. The patient that is selected in CPRS is the same patient selected in Clinical Display when the application is opened. This method of matching the same patient between two applications is performed by Clinical Context Object Workgroup (CCOW), a standard for synchronizing common data. See *Appendix D: Clinical Context Object Workgroup* for information on CCOW and patient context in Clinical Display.

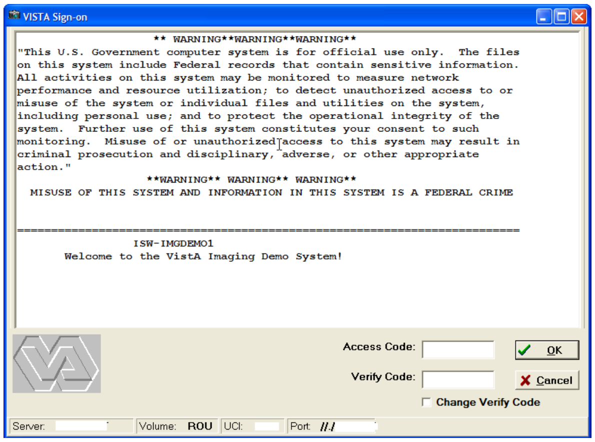
For more information on using Clinical Display in the context of CPRS, see the CPRS User Guide at
http://www.va.gov/vdl/documents/Clinical/Comp_Patient_Recrd_Sys_(CPRS)/cprsguium.pdf

1. Double-click the Display Shortcut on the Windows desktop, or click **Start | All Programs | VistA Imaging Programs | VistA Imaging Clinical Display 32-bit.**

VistA Imaging
Display 32bit

2. The VistA Sign on dialog box is displayed.

   Note: If the Connect To dialog box is displayed instead of the Sign on dialog box continue to Step 3.

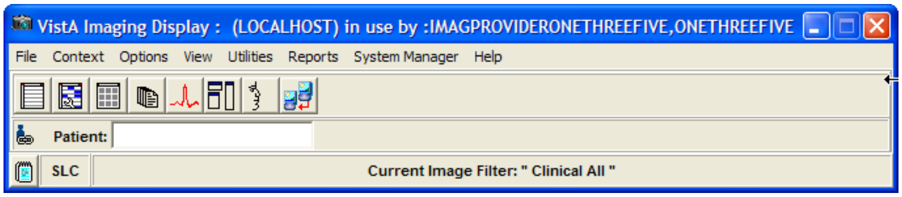

VISTA Sign-on
Access Code:
Verify Code:
OK
Cancel
☐ Change Verify Code

```
                  ** WARNING**WARNING**WARNING**
"This U.S. Government computer system is for official use only.  The files
on this system include Federal records that contain sensitive information.
All activities on this system may be monitored to measure network
performance and resource utilization; to detect unauthorized access to or
misuse of the system or individual files and utilities on the system,
including personal use; and to protect the operational integrity of the
system.  Further use of this system constitutes your consent to such
monitoring.  Misuse of or unauthorized access to this system may result in
criminal prosecution and disciplinary, adverse, or other appropriate
action."
                 **WARNING** WARNING** WARNING**
  MISUSE OF THIS SYSTEM AND INFORMATION IN THIS SYSTEM IS A FEDERAL CRIME


==========================================================================
                    ISW-IMGDEMO1
       Welcome to the VistA Imaging Demo System!
```

Server: | Volume: ROU | UCI: | Port: //./

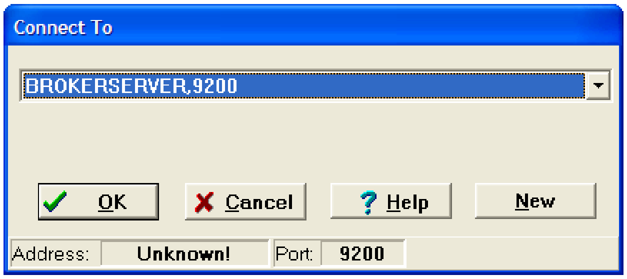
3. Enter your Access and Verify codes in the VistA Sign on dialog box, click **OK.**

   The VistA Imaging Display main window opens. Continue to the next section.


VistA Imaging Display : (LOCALHOST) in use by :IMAGPROVIDERONETHREEFIVE,ONETHREEFIVE
File
Context
Options
View
Utilities
Reports
System Manager
Help
Patient:
SLC

Current Image Filter: " Clinical All "

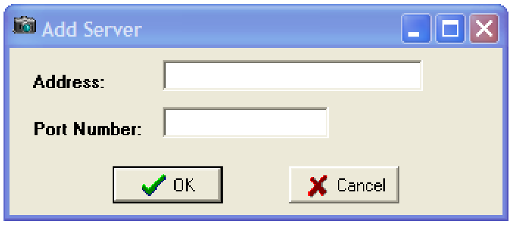
4. If the Connect To dialog box is displayed, select the server that you have been instructed to log in to and click **OK**.


Connect To
OK
Cancel
Help
New

BROKERSERVER,9200

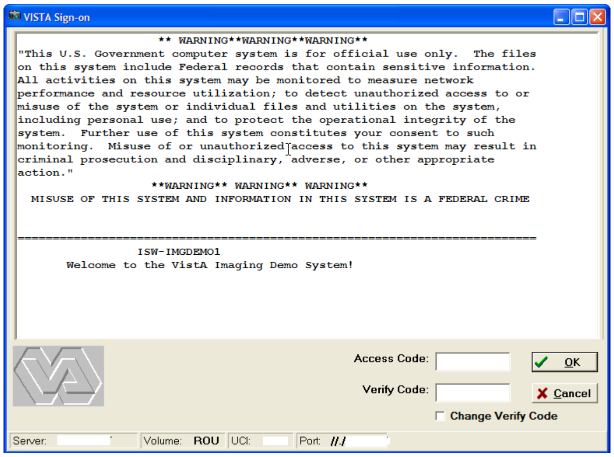
Address: Unknown! Port: 9200

5. If the server is not listed in the drop down list, click the **New** button, enter the Address and Port Number in the Add Server window, and click **OK**.


Add Server
Address:
Port Number:
OK
Cancel

   Your site administrator should have the server information.

6. In the VistA Sign on dialog box displayed, enter your Access and Verify codes and click **OK**.



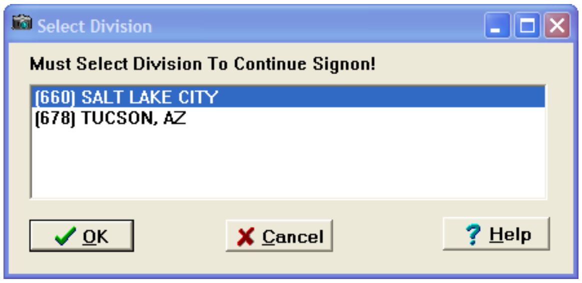
```
                   ** WARNING**WARNING**WARNING**
"This U.S. Government computer system is for official use only.  The files
on this system include Federal records that contain sensitive information.
All activities on this system may be monitored to measure network
performance and resource utilization; to detect unauthorized access to or
misuse of the system or individual files and utilities on the system,
including personal use; and to protect the operational integrity of the
system.  Further use of this system constitutes your consent to such
monitoring.  Misuse of or unauthorized access to this system may result in
criminal prosecution and disciplinary, adverse, or other appropriate
action."
                  **WARNING** WARNING** WARNING**
 MISUSE OF THIS SYSTEM AND INFORMATION IN THIS SYSTEM IS A FEDERAL CRIME



===========================================================================
                 ISW-IMGDEMO1
       Welcome to the VistA Imaging Demo System!
```

Volume: ROU

Port: //./

VISTA Sign-on
Access Code:
Verify Code:
✓ OK
✗ Cancel
☐ Change Verify Code
Server:
UCI:

7. In the Select Division dialog box displayed, select your division and click **OK**.

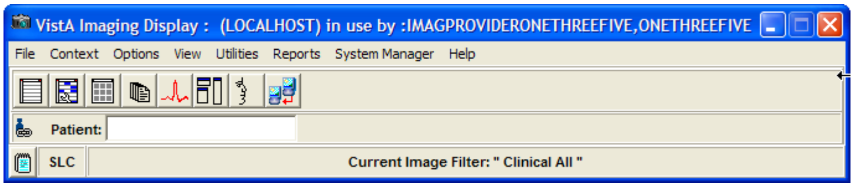


Must Select Division To Continue Signon!

(660) SALT LAKE CITY
(678) TUCSON, AZ

Select Division
✓ OK
✗ Cancel
? Help

The VistA Imaging Display main window opens. Continue to the next section.



VistA Imaging Display : (LOCALHOST) in use by :IMAGPROVIDERONETHREEFIVE,ONETHREEFIVE

Current Image Filter: " Clinical All "

File
Context
Options
View
Utilities
Reports
System Manager
Help
Patient:
SLC

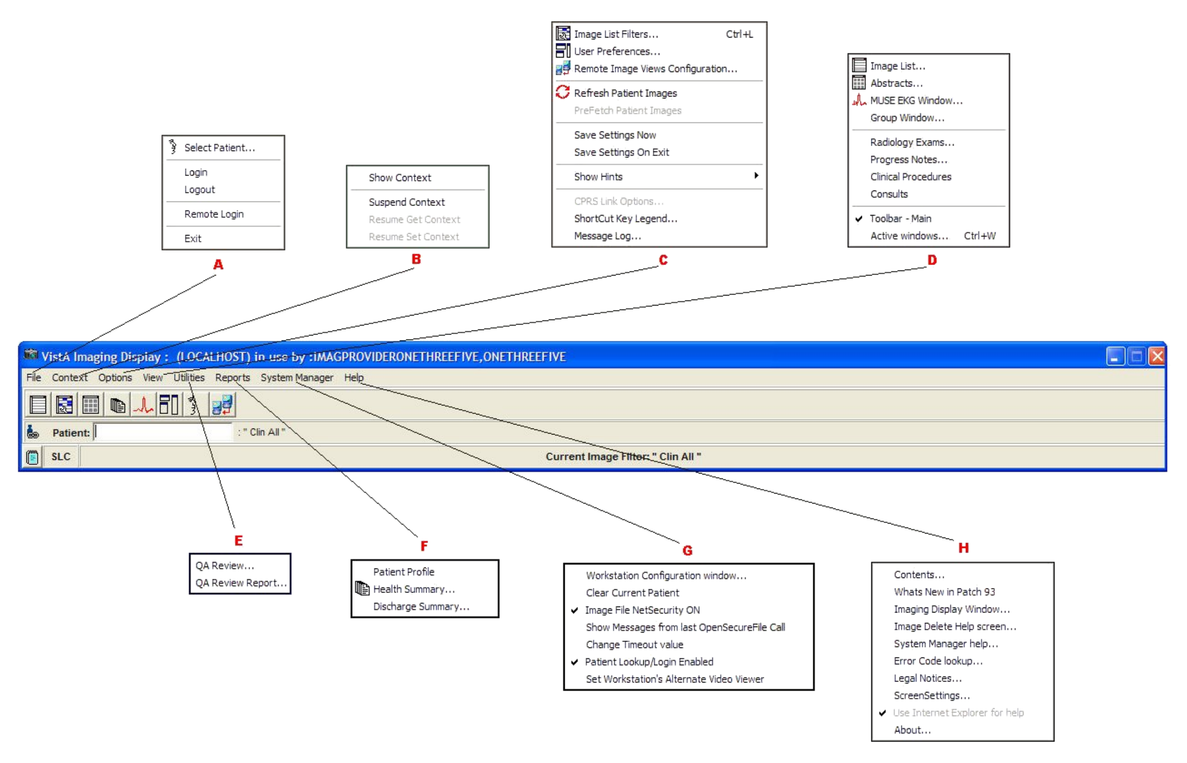
VistA Imaging Display Main Window

From this window, you can perform the following tasks:

- Select a patient
- Set user preferences
- Show or suspend patient context
- Create and use image filters
- Configure remote image view configuration (if available)
- View reports

- Use additional features if you have the appropriate security keys

  Note: The Utilities and System Manager menus on the menu bar may not be available to you if your site coordinator has not assigned you access to these tools.

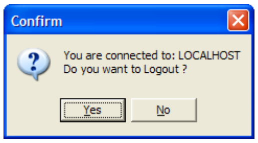
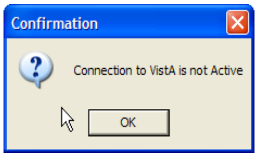
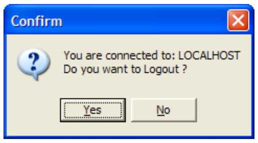

Select Patient…
Login
Logout
Remote Login
Exit
A
Show Context
Suspend Context
Resume Get Context
Resume Set Context
B
Image List Filters… Ctrl+L
User Preferences…
Remote Image Views Configuration…
Refresh Patient Images
PreFetch Patient Images
Save Settings Now
Save Settings On Exit
Show Hints
CPRS Link Options…
ShortCut Key Legend…
Message Log…
C
Image List…
Abstracts…
MUSE EKG Window…
Group Window…
Radiology Exams…
Progress Notes…
Clinical Procedures
Consults
Toolbar - Main
Active windows… Ctrl+W
D
VistA Imaging Display : (LOCALHOST) in use by :IMAGPROVIDERONETHREEFIVE,ONETHREEFIVE
File Context Options View Utilities Reports System Manager Help
Patient:
: " Clin All "
SLC
Current Image Filter: " Clin All "
E
QA Review…
QA Review Report…
F
Patient Profile
Health Summary…
Discharge Summary…
G
Workstation Configuration window…
Clear Current Patient
Image File NetSecurity ON
Show Messages from last OpenSecureFile Call
Change Timeout value
Patient Lookup/Login Enabled
Set Workstation's Alternate Video Viewer
H
Contents…
Whats New in Patch 93
Imaging Display Window…
Image Delete Help screen…
System Manager help…
Error Code lookup…
Legal Notices…
ScreenSettings…
Use Internet Explorer for help
About…

Note: The Clinical Display software is user configurable. Its appearance may not match the examples shown in this manual. Details on how to configure your system by setting user preferences are explained later in this manual.

Menu Bar in the VistA Imaging Display Main Window

File Menu

Menu Option	Description
Select Patient	Opens the Patient Lookup window.
Login	When selecting Login you will be prompted for your Access and Verify codes. Follow the Signing into Clinical Display procedures in this manual. If you are already logged into VistA you will receive a Confirm message for logging out. See Logout below.

Menu Option	Description
Logout	Confirms your logout from the VistA database  You are connected to: LOCALHOST Do you want to Logout ? **Note**: If you are not logged in, the following message confirms this.  Connection to VistA is not Active
Remote Login	If you are not already logged into VistA the Connect To dialog box is displayed. Follow the Signing into Clinical Display procedures in this manual starting at Step 3. If you are already logged into VistA you will receive a Confirm message for logging out. See Logout below.  You are connected to: LOCALHOST Do you want to Logout ? After confirming that you want to log out the dialog box closes and the Connect To box opens. Continue the Signing into Clinical Display procedures in this manual starting at Step 3.
Exit	Ends your session in Clinical Display.

Context Menu

Menu Option	Description
Show Context	See *Appendix D: Clinical Context Object Workgroup* for the details of CCOW and these menu options
Suspend Context	
Resume Get Context	
Resume Set Context	

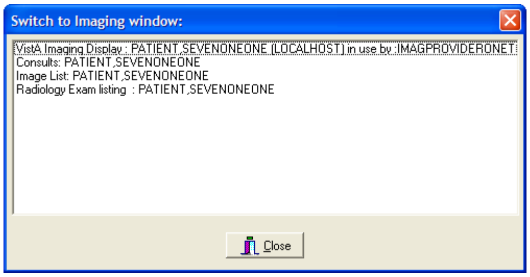
Options Menu

Menu Option	Description
Image List Filters	Displays the Image Filter Add/Edit window.
User Preferences	Displays the User Preferences window.

Menu Option	Description
Remote Image Views Configuration	Opens the Remote Image Views Configuration window.
Refresh Patient Images	Refreshes the Image List and all Abstracts windows that are open when the refresh was initiated.
Pre Fetch Patient Images	All images for the patient are queued to be copied from the Jukebox to the Magnetic Image server for faster loading of images. User must have a Security Key.
Save Settings Now	Equivalent to the Windows Save button to explicitly save settings as you go along.
Save Settings On Exit	On or off option: • When selected the settings are saved on exiting Clinical Display. • When not selected, all changes to settings are lost on exiting if you do not manually save the changes.
Show Hints	Show Hints has the following options: • Main Imaging Display Window - When selected a check mark appears and hints are displayed. • Turn Hints OFF for all windows - When selected a check mark appears and hints are not shown. • Turn Hints ON for all windows - When selected a check mark appears and hints are displayed.
CPRS Link Options	Allows user to break the Link to CPRS. It is only enabled if VistA Imaging was started from the CPRS Tools menu.
ShortCut Key Legend	Opens the Short Cut Key Legend which is shown in the System References section of this manual.
Message Log	Opens the Imaging Session Message History window. (available as a button on the Tool Bar)

View Menu

Menu Option	Description
Image List	Opens the Image List window.
Abstracts	Opens the Abstracts window. (available as a button on the Tool Bar)
MUSE EKG Window	Opens the MUSE EKG viewer
Group Window	Enabled if a Group Abstracts window is open. It is used to bring the window to the forefront.
Radiology Exams	Opens the Radiology Exam listing window.

Menu Option	Description
Progress Notes	Opens the Progress Notes window.
Clinical Procedures	Opens the Clinical Procedures window.
Consults	Opens the Consults window. The link to Consults is not available.
Tool bar -Main	Toggles between displaying the Main Tool bar, or not.
Active Windows	 VistA Imaging Display : PATIENT,SEVENONEONE (LOCALHOST) in use by :IMAGPROVIDERONET Consults: PATIENT,SEVENONEONE Image List: PATIENT,SEVENONEONE Radiology Exam listing : PATIENT,SEVENONEONE Selecting an entry in the list enables transfer of focus to that window.

Utilities Menu

(The menu options are displayed only if you have certain security keys. See *Appendix B: Clinical Display Security Keys*.)

Menu Option	Description
QA Review	Opens the QA Review utility. See *Checking Quality Assurance on Images*
QA Review Report	Opens the QA Review Report utility. See *Running the QA Review Report.*

Reports Menu

Menu Option	**Description**
Patient Profile	Displays the *Patient Profile* report window.
Health Summary	Displays the *Health Summary* Reports window.
Discharge Summary	Displays the *Discharge Summary* List window. When you select a summary, the report is displayed.

System Manager Menu

Note: This menu is enabled only if you hold the MAG SYSTEM security key. See *Appendix E: For System* Managers for the menu options.

Help Menu

Menu Option	**Description**
Contents	Displays a welcome to the VA VistA Imaging Help System
Whats New in Patch 93	Displays a document which explains the Patch 93 changes to Clinical Display
Imaging Display Window	Displays windows in the application beginning with the main window and describes the use
Imaging Delete Help screen	Displays the Image Delete confirmation window whenever you select the Image Delete menu option. You can delete images only if you have the proper security keys. See *Appendix B: Clinical Display Security Keys*.
System Manager help	Displays the System Manager On-Line help file.
Error Code Lookup	Displays the Error Lookup window so you can find out the meaning by entering the error code in the error message.
Legal Notices	Lists the medical and vendor regulations pertaining to this software.
Screen Settings	Provides settings to adjust the screen resolution to view medical images.
Use Internet Explorer for help.	Sets the default browser to Internet Explorer. This is selected by default and it is not configurable.
About	Displays the About window, which specifies the software name, current Patch number, current version and build, past versions installed, etc.

Tool Bar in the VistA Imaging Display Main Window

Button	Description
Open the Image List window	Opens the *Image List Window*
Select/Create an Image Filter	Opens the Image Filter List Add/Edit window
Open the Abstracts window	Opens the *Abstracts Window*
Open the VistA Health Summary Reports window	Opens the Health Summary Report window. When the window opens, there may be many Health Summary Reports for the selected patient. You select the Health Summary Report from the list of reports that are available and the report is displayed.
Open the MUSE EGK viewing window	Opens the MUSE EKG viewer
Open the User Preferences window	Opens the User Preferences window
Select a Patient	Opens the Patient Lookup window
Remote Image Views Configuration	Opens the Remote Image View Configuration window

Fields

Field	Description
Patient	Displays the patient name and identifier if a patient is selected. If no patient is selected, the field is blank.
Institution Identifier	Institution identifier that the client is currently logged in to. For example, SLC = Salt Lake City.

Show Message History Window Button

Button	Description
Show/Hide Message window	Displayed in the lower left corner of the VistA Imaging main window, this button opens the *Message History Window* where you can view messages.

Selecting a Patient

Clinical Display provides three ways to select patients:

- Patient lookup box
- Menu bar or tool bar
- Image List tool bar

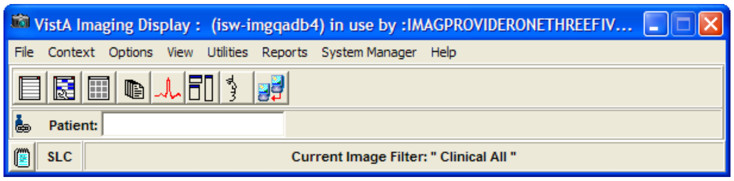
Using the Patient Lookup Box

The Patient lookup box enables you to quickly perform a patient lookup by not having to navigate a system menu or another popup window. Typing one of the following patient identifiers in the Patient lookup box displays one patient or a list of patients with similar names or other similar identifiers:

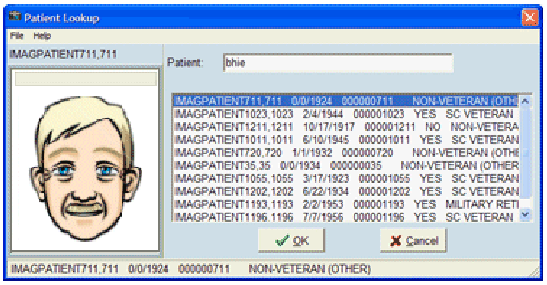
- Patient Name (or partial name)
- Full SSN
- Last four digits of the SSN

Note: If you hold the MAG PAT PHOTO ONLY security key, you are only able to look up patients to verify their identities through a photo ID. You cannot view their medical records. Refer to *Appendix B: Clinical Display Security Keys*.

1. Type the patient identifier in the Patient lookup box.


VistA Imaging Display : (isw-imgqadb4) in use by :IMAGPROVIDERONETHREEFIV...
File
Context
Options
View
Utilities
Reports
System Manager
Help
Patient:
SLC
Current Image Filter: " Clinical All "

  - If an exact match is found, then the patient is selected in the VistA Imaging Display main window. User Preferences can be set to open the Image List and or the Abstracts window when a patient is selected. Continue to the next section *Working with the Image List*.
  - If multiple patients match the patient identifier you entered, then the Patient Lookup window displays the matching patients and their demographics, as shown.


Patient Lookup
File Help
OK
Cancel

IMAGPATIENT711,711

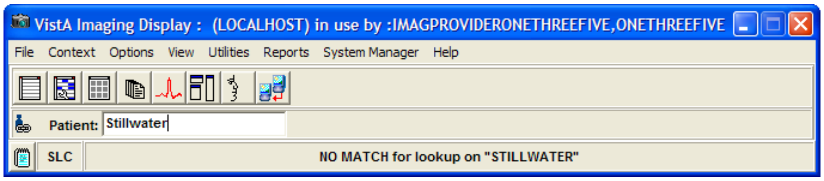
Patient: bhie

IMAGPATIENT711,711 0/0/1924 000000711 NON-VETERAN (OTH
IMAGPATIENT1023,1023 2/4/1944 000001023 YES SC VETERAN
IMAGPATIENT1211,1211 10/17/1917 000001211 NO NON-VETERA
IMAGPATIENT1011,1011 6/10/1945 000001011 YES SC VETERAN
IMAGPATIENT720,720 1/1/1932 000000720 NON-VETERAN (OTHE
IMAGPATIENT35,35 0/0/1934 000000035 NON-VETERAN (OTHER
IMAGPATIENT1055,1055 3/17/1923 000001055 YES SC VETERAN
IMAGPATIENT1202,1202 6/22/1934 000001202 YES SC VETERAN
IMAGPATIENT1193,1193 2/2/1953 000001193 YES MILITARY RETI
IMAGPATIENT1196,1196 7/7/1956 000001196 YES SC VETERAN

IMAGPATIENT711,711 0/0/1924 000000711 NON-VETERAN (OTHER)

2. Choose the patient by selecting the appropriate row and then click **OK** (or **Cancel** if the patient you are searching for is not listed).

   If no match is found, the status message displays “NO MATCH for lookup on” (the patient identifier provided), as shown.


VistA Imaging Display : (LOCALHOST) in use by :IMAGPROVIDERONETHREEFIVE,ONETHREEFIVE
File Context Options View Utilities Reports System Manager Help
SLC

Patient: Stillwater

NO MATCH for lookup on "STILLWATER"

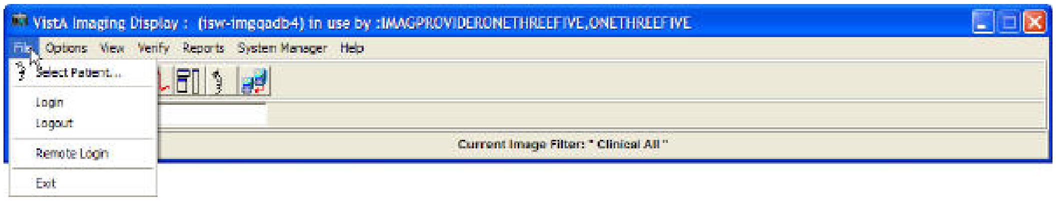
3. Enter a new patient name in the Patient lookup box.

Note: To work with the patient data, see the next chapter *Working with the Image List*.

Using the Menu Bar or Tool Bar

1. In the VistA Imaging Display main window, perform either step:

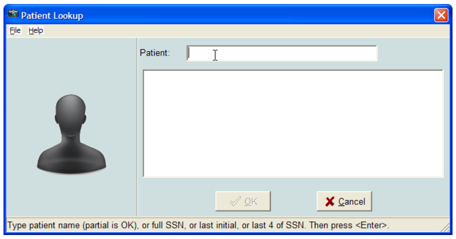
   - Choose **File | Select Patient** from the menu bar.


VistA Imaging Display : (isw-imgqadb4) in use by :IMAGPROVIDERONETHREEFIVE,ONETHREEFIVE
File Options View Verify Reports System Manager Help
Select Patient...
Login
Logout
Remote Login
Exit

Current Image Filter: " Clinical All "

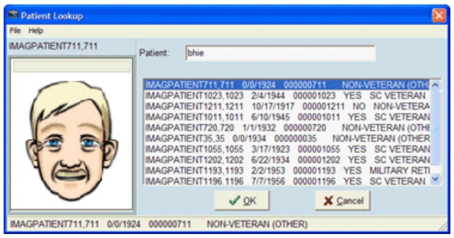
   - Click the **Select a Patient** button on the tool bar.

     If an exact match is found, the Patient Lookup window opens displaying the patient's data and the silhouette is replaced with the patient's photo.



Type patient name (partial is OK), or full SSN, or last initial, or last 4 of SSN. Then press <Enter>.

If multiple patients match the patient identifier you entered, then the Patient Lookup window displays the matching patients and their demographics, as shown.



IMAGPATIENT711,711

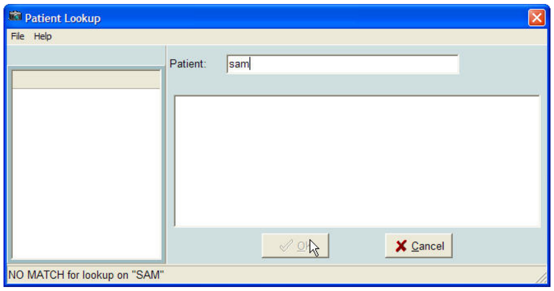
Patient: bhie

```
IMAGPATIENT711,711   0/0/1924   000000711      NON-VETERAN (OTH
IMAGPATIENT1023,1023   2/4/1944   000001023   YES   SC VETERAN
IMAGPATIENT1211,1211   10/17/1917   000001211   NO   NON-VETERA
IMAGPATIENT1011,1011   6/10/1945   000001011   YES   SC VETERAN
IMAGPATIENT720,720   1/1/1932   000000720      NON-VETERAN (OTHE
IMAGPATIENT35,35   0/0/1934   000000035      NON-VETERAN (OTHER
IMAGPATIENT1055,1055   3/17/1923   000001055   YES   SC VETERAN
IMAGPATIENT1202,1202   6/22/1934   000001202   YES   SC VETERAN
IMAGPATIENT1193,1193   2/2/1953   000001193   YES   MILITARY RETI
IMAGPATIENT1196,1196   7/7/1956   000001196   YES   SC VETERAN
```

IMAGPATIENT711,711   0/0/1924   000000711   NON-VETERAN (OTHER)

2. Choose the patient by selecting the appropriate row and then clicking **OK** (or **Cancel** if the patient you are searching for is not listed).

   If no match is found, the status message displays “NO MATCH for lookup on” (the patient identifier provided), as shown. The Patient list and patient photo are blank.



Patient: sam

NO MATCH for lookup on "SAM"

3. Click **Cancel** or enter a new patient name to search.

Note: To work with the patient data, see the next chapter *Working with the Image List.*

Using the Image List Tool Bar

The Image List window is explained in detail in the next chapter.

1. Click the **Open the Image List window** button on the tool bar.

2. In the Image List window, click the **Select a Patient** button on the tool bar.

Note: To work with the patient data, see the next chapter *Working with the Image List* window.

Working with the Image List Window

The Image List Window is used to perform the following tasks:

- Enables you to select an image or image group and opens the selection in the appropriate viewer or the Group Abstracts window (for image groups)
- Enables you to filter the patients images
- Shows the remote sites that are connected or disconnected where the patient has images (if the ability to view remote images is enabled)
- Enables you to navigate to other windows and tools within the application through the button tool bar and file menu options

Image List Window

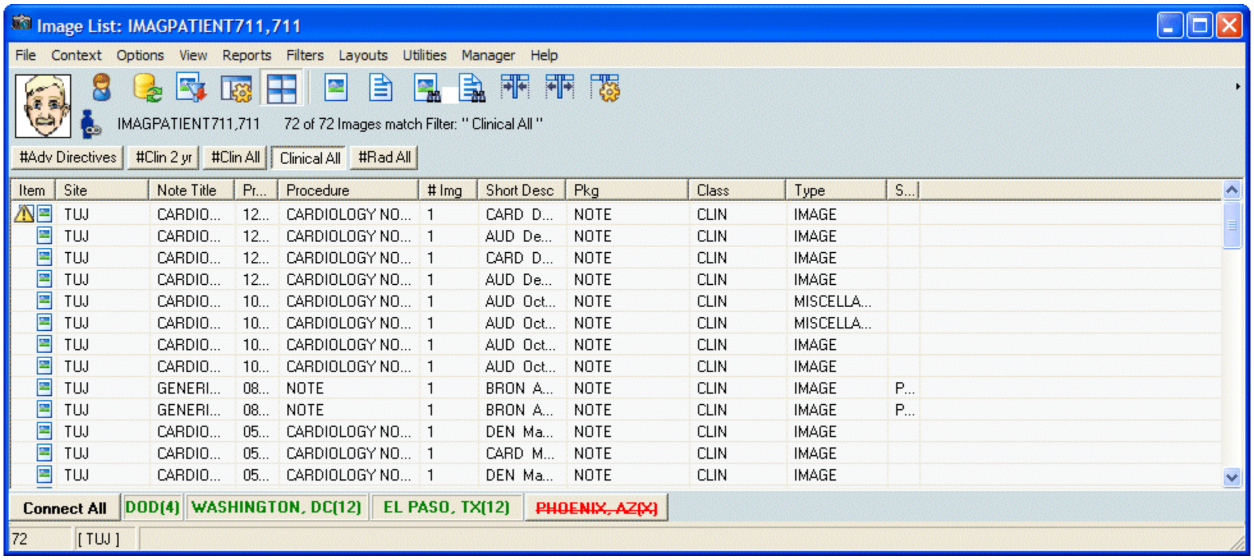


Image List: IMAGPATIENT711,711
File
Context
Options
View
Reports
Filters
Layouts
Utilities
Manager
Help
#Adv Directives
#Clin 2 yr
#Clin All
Clinical All
#Rad All
Connect All
DOD(4)
WASHINGTON, DC(12)
EL PASO, TX(12)
~~PHOENIX, AZ(X)~~

IMAGPATIENT711,711   72 of 72 Images match Filter: " Clinical All "

Item	Site	Note Title	Pr...	Procedure	# Img	Short Desc	Pkg	Class	Type	S...
⚠	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	CARD D...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	AUD De...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	CARD D...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	AUD De...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	MISCELLA...	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	MISCELLA...	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	IMAGE	
	TUJ	GENERI...	08...	NOTE	1	BRON A...	NOTE	CLIN	IMAGE	P...
	TUJ	GENERI...	08...	NOTE	1	BRON A...	NOTE	CLIN	IMAGE	P...
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	DEN Ma...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	CARD M...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	DEN Ma...	NOTE	CLIN	IMAGE	

72   [TUJ]

Menu Bar in the Image List

File Menu

Menu Option	Description
Select Patient	Displays a welcome to the VA VistA Imaging Help System
Open Image	Opens the Patient Lookup window.

Menu Option	**Description**
Open Image in 2nd Radiology Window (if Radiology image is selected)	Enables the user to view two radiology images side by side
Image Copy	See Printing and Copying Images
Image Print	See Printing and Copying Images
Image Report	Opens the Image Report for the selected image.
Image Delete (shown if a single image is selected)	Opens the Image Delete window.
Image Group Delete (shown if an image group is selected)	Opens the Image Delete window.
Image Index Edit	Opens the Image Index Edit window for the selected image.
Image Information	Opens the Image Information window.
Image Information Advanced	Opens the Image Information/properties window.
Cache images	Caches the currently selected image in the background to the workstation, enabling you to continue working while the images are brought to the workstation.
Close	Closes the Image List window
Exit	Closes the imaging session

Context Menu

Menu Option	**Description**
Pertains to CCOW compliance. See *Appendix D: Clinical Context Object Workgroup.*	

Options Menu

Menu Option	**Description**
Refresh Patient Images	Refreshes the list of images and image status.
Prefetch Patient Images	All images for the patient are queued to be copied from the Jukebox to the Magnetic Image server for faster loading of images. User must have a Security Key.

Menu Option	**Description**
User Preferences	User Preferences has the following options: • Configure User Preferences - Displays the User Preferences window. • Save Settings Now - Equivalent to the Windows Save button to explicitly save settings as you go along. • Save Settings on Exit - When selected the settings are saved on exiting Clinical Display. When not selected, all changes to settings are lost on exiting if you do not manually save the changes.
Remote Image Views Configuration	Configures remote image views (RIVs)
Shows Hints	Shows Hints has the following options: • Show Hints on This Window - When selected a check mark appears. • Hints OFF for all windows - When selected a check mark appears and hints are not shown. • Hints ON for all windows - When selected a check mark appears and hints are displayed.
Browse Image List	Normally focus will shift to the image when an image is opened. To enable browsing a patient’s images with the arrow keys, the user would select ‘Browse Image List’.
CPRS Sync Options	Allows user to break the link to CPRS. Enabled only if VistA Imaging was started from the CPRS Tool menu.
Shortcut Key legend	Opens the Short Cut Key Legend which is shown in the System References section of this manual.
Message Log	Opens *Message History Window*

View Menu

Menu Option	**Description**
MUSE EKG Window	Opens the MUSE EKG window.
Group Window	Brings the Group Abstracts window to the forefront if it is open.
Radiology Exams	Opens the Radiology Exams window.
Progress Notes	Opens the Progress Notes window.

Menu Option	**Description**
Toolbars	Toolbars has the following options: • Main Toolbar - The top toolbar of the window. • Main Toolbar in tree - If the Tree View is visible the user can insert the Main Toolbar at the top of the Tree View. This option gives the maximum area to the Image Panel when viewing images in the Image List window. • Image Toolbar - Is the toolbar for the Image Viewer. • Tree Sort Buttons - This will show/hide the Tree Sort button toolbar. • Filter Buttons - This will show/hide the Filter Button bar. • Remote Connections - This will show/hide the remote image connection toolbar at the bottom of the Image List window.
Active windows	Displays the active windows Go to Main Window
Go to Main Window	Sets focus on the Main Window.

Reports Menu

Menu Option	**Description**
Patient Profile	Displays the Patient Profile report for a selected patient
Health Summary	Displays the VistA Health Summary report window for a selected patient
Discharge Summary	Displays the Discharge Summaries window for a selected patient

Filters Menu

Menu Option	**Description**
Image List Filters	Opens the Image Filter Add/Edit window
Filter Details	Displays the filter Information window for the active filter
Refresh Filter list	Refreshes the filter list
Filters as Buttons	Turns on or off filters as buttons
Multi-Line Tabs	Turns on or off multi-line tabs
Include Deleted Image Placeholders	Displays or hides deleted image placeholders

Layouts Menu

Menu Option	**Description**
Abstracts	Abstracts has the following options: • Show Abstracts – This item works when abstracts are shown in the Image List window or the Abstracts window itself. Selecting or clearing this item will show or hide the Abstracts Component on the Image List window or the Abstracts window if “Abstracts Viewer in Separate Window’ is selected. • Abstracts Bottom – Position the Abstracts at the bottom of the window. • Abstracts Left – Positions the Abstracts to the left side of the window. • Abstracts Bottom Tree – Positions the Abstracts to the bottom of the Tree View. The Tree View will become visible when this option is selected. • Abstract Viewer in Separate Window – View the abstracts in a separate window. • Refresh – Reloads all abstract images.
Tree view For details, see *Configure Tree View Window*.	Tree view has the following options: • Show Tree View – Show or Hide the Tree View. • Sort Buttons – Show or Hide the Tree Sort buttons. • Auto Expand/Collapse – If selected then the Tree Level will collapse when an item from a different branch is selected. • ‘Specialty – Event’ – Configure Tree View with Specialty Index value as the first branch and Event as the second. • ‘Type – Specialty’ – Configure the Tree View with the Type Index value as the first branch and the Specialty as the second. • ‘Package – Type’ – Configure the Tree View with Package Index value as the first branch and Type as the second. • Custom – Opens the Configure Tree View window • Expand All – All levels of the tree are expanded. • Expand 1 level – All Tree nodes are expanded so that the first level is visible. This is useful when multiple tree levels are used. • Collapse All – All levels are collapsed so that only the first level of the image properties is visible. • Refresh – Refreshes the Tree View listing.

Menu Option	Description
List view	List view has the following options: • Show Image List – Show or Hide the List View. • Select Columns – Opens the Column Selector window • Fit to Text – Select to resize the columns so that they will display the longest entry. • Fit to Window – Adjusts the columns to fit in the Image List window • Show Grid – Display or hide the grid. The grid provides an easy way to measure and compare portions of the study. Studies can be displayed both with the grid on and off. To toggle the grid, select the Display/Hide Study. • Preview Abstract – Previews the abstract of the selected image • Preview Report – Previews the report of the selected image • Refresh – Refreshes the list of images for the selected patient. **Note**: If both the Tree View and List View (and optionally the Abstracts) are visible, all data is updated when the patient images are refreshed.
Explorer Style	Tree View to the left and the image on the right
Explorer with List	Same as the Explorer style plus the list view on top of the image
Explorer with Abstracts	Same as the Explorer style plus the abstracts displayed at the bottom of the Tree View
Abstract strip	Abstracts at the bottom of the window and the Full Resolution image displayed at the top.
Abstract strip left	Abstracts to the left of the window and the Full Resolution image displayed on the right.
Abstract strip with List	Same as Abstracts strip left plus the list view to the top of the Full Resolution image.
List with Previews	List view is on the top with Abstracts, Image Information and Image Report panes visible as preview panes. The panes are updated when a new entry is selected in the list.
Document Viewer in a separate window	If selected this will display the Full Resolution Image in the Full Resolution window.

Menu Option	Description
Set Active Control	The menu item makes navigation easier for the Image List. An indicator can be used to visually determine the active control and Short Cut keys are available to navigate to the main controls on the Image List window. Set Active Control has the following options: • Abstract – This will set the Abstract Viewer as the active control. If the Abstract window is where the abstracts are being shown then this function will Open the abstract window and set focus to it. • Tree View – Tree View control in the Image List window will be made the active control. It will be made visible. • List View – The List View control in the Image List window will be made the active control. It will be made visible. • Full Resolution Viewer – This will set the Full Resolution Viewer as the active control. If the Full Resolution window is where Images are being shown then this function will Open the Full Resolution window and set focus to it. • Active Control Indicator – If selected a yellow bar will be displayed to the left of the control that currently has focus.

Utilities Menu

Menu Option	Description
QA Review	QA Review – Opens the *QA Review Window*.
QA Review Report	Opens the Select a Date Range window with the QA Review / Image Status Report window in the background. **Note**: The QA Review / Image Status Report window is a blank report template. When you specify the date range and click OK, the results are displayed in the QA Statistics Report window.
Edit Index fields	Opens the Edit Index Edit window.
ROI Print Options	ROI Print Options has the following options: • Print all listed images… • Chose Images to Print
Image Status	Displays the current image status and allows the user to change the image status from the current status to: Viewable, QA Reviewed, or Needs Review (block from view).
Controlled Image	Changes the value for a controlled image to True. When you select Refresh, the image entry is marked as controlled in the Image List, tree view, and Abstract viewers.

Manager Menu

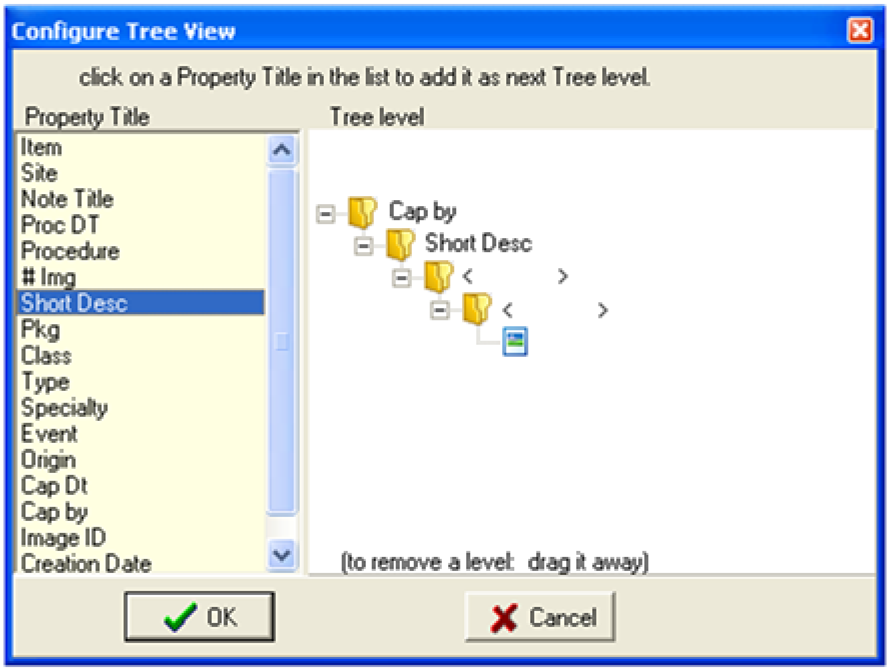
Menu Option	**Description**
The menu option requires the MAG SYSTEM security key. See *Appendix E: For System Managers* for the menu options.	

Help Menu

Menu Option	**Description**
Image Listing window	Displays the online help file for the Image List window
What's new in Patch 93	Displays the online help file.
About	Opens the About window.

Configure Tree View Window

The Configure Tree View window is opened from the **Layouts | Tree view** menu by selecting the **Custom** menu option.



Configure Tree View
Property Title
Tree level
Item
Site
Note Title
Proc DT
Procedure
# Img
Short Desc
Pkg
Class
Type
Specialty
Event
Origin
Cap Dt
Cap by
Image ID
Creation Date
Cap by
Short Desc
<
>
<
>
OK
Cancel

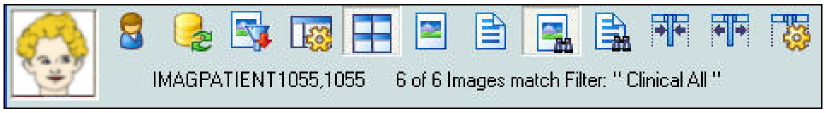
click on a Property Title in the list to add it as next Tree level.

(to remove a level: drag it away)

1. Select an item in the Property Name list and it will be added as the next tree level.
2. To remove a Level, drag it away with the mouse and drop it (anywhere).
3. Click the 'OK' button and the tree view will be reconfigured with the selected image properties as the new levels. Clicking Cancel will close the window without applying the changes.

Note: In the graphic, the user selects Captured By 'Cap By' and then the Short Description 'Short Desc'.

Tool Bar in the Image List Window



IMAGPATIENT1055,1055   6 of 6 Images match Filter: " Clinical All "

Note: When no patient is selected, a silhouette is displayed in place of the patient's photo.

Button	**Description**
Select a Patient	Opens the Patient Lookup window
Refresh Patient Images	Refreshes the list of images for the selected patient **Note**: If both the Tree View and List View (and optionally the Abstracts) are visible, all data is updated when the patient images are refreshed.
Select/Create an Image Filter	Opens the Image Filter Add/Edit window
Configure User Preferences	Opens the User Preferences window
Show/Hide Abstracts	Displays or hides image abstracts in the Image List window
Open the Image	Opens the selected image
Open the Report	Opens the report associated with the selected image
Preview Abstract of selected list item	Previews the abstract of the selected image
Preview Report of selected list item	Previews the report of the selected image
Fit Columns to Text	Select to resize the columns so that they will display the longest entry.
Fit Columns in Window	Adjusts the columns to fit in the Image List window

Button	Description
⚙ Select Columns	Selects a column in the Image List window

Filter Buttons

The Filters menu enables you to set user preferences to add, remove, and display filters as buttons. Buttons on the Filters menu provide quick access to filters. The following buttons are displayed above the list pane to sort the images.
Note: The pound (#) sign indicates public filters (filters available to all users). Filters are explained in detail later in this chapter.

Button	Description
#Adv Directives	Filter to show all of the images that are Advanced Directives
#Clin 2Yr	Filter to show all Clinical images acquired in the last 2 years
#Clin All	Filter to show all of the clinical images
#Rad All	Filter to show all radiology images

Icons in the Item Column

In the Item column, the following icons indicate in the Image List and Tree View:

Icon	Description
🖼	Indicates a single image. Single images are not part of an image group.
⧉	Indicates an image group An image group is a collection of related single images of the same or mixed formats.
⬇	Indicates an image that has been cached.
👓	Indicates a "Needs Review" status
🔒	Indicates a "TIU Authorization Failed" status
🔄	Indicates that the image has been updated in the database and needs to be refreshed in the Image List.
⚠	Indicates that the image is a Controlled Image.
☒	Deleted Image. Deleted image placeholders are displayed when the user selects Filters | Include Deleted Image Placeholders option from the Image list window. This setting is saved as a user preference.

Icon	Description
	Deleted Image group. Indicates that the group of images has been deleted. This icon is displayed when Include Deleted Image Placeholders is selected.

Display of the Column Listings

You can vary the display of the data in the following ways:

- Sort the order of images by selecting a column heading.
- Change the column width by selecting the column dividers and dragging them to the left or right.
- Display a popup menu of options by right-clicking in the Image List.

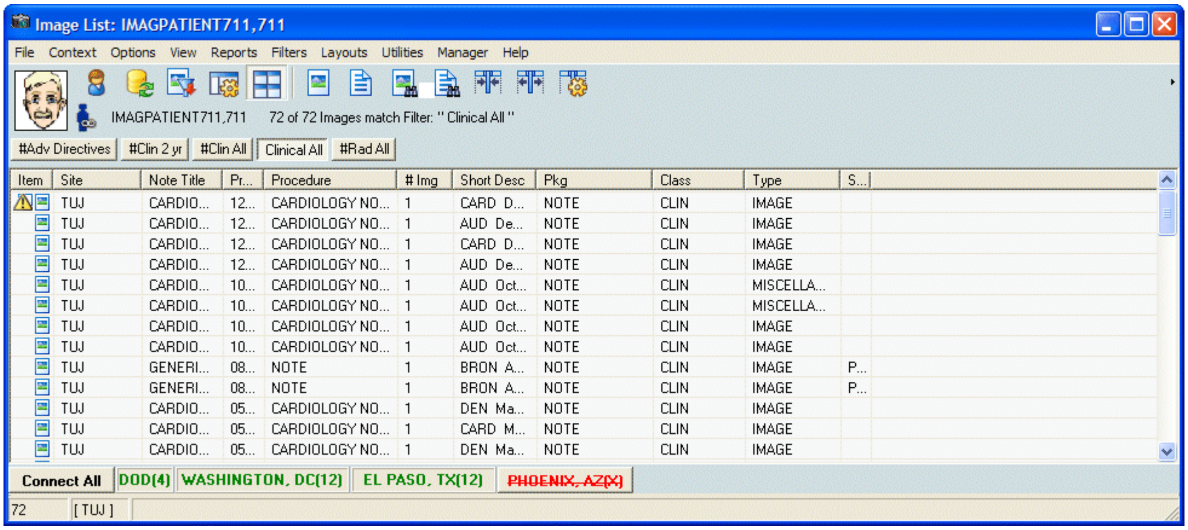
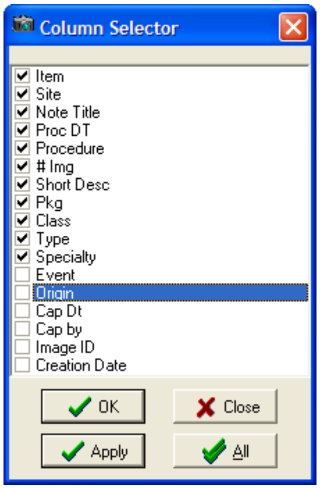


Image List: IMAGPATIENT711,711
File
Context
Options
View
Reports
Filters
Layouts
Utilities
Manager
Help
#Adv Directives
#Clin 2 yr
#Clin All
Clinical All
#Rad All
Connect All
DOD(4)
WASHINGTON, DC(12)
EL PASO, TX(12)
~~PHOENIX, AZ(X)~~
72
[TUJ]

IMAGPATIENT711,711 72 of 72 Images match Filter: " Clinical All "

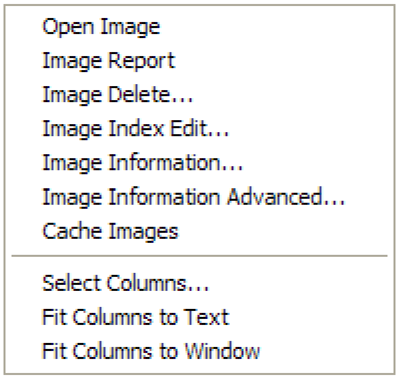
Item	Site	Note Title	Pr...	Procedure	# Img	Short Desc	Pkg	Class	Type	S...
⚠	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	CARD D...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	AUD De...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	CARD D...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	AUD De...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	MISCELLA...	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	MISCELLA...	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	IMAGE	
	TUJ	GENERI...	08...	NOTE	1	BRON A...	NOTE	CLIN	IMAGE	P...
	TUJ	GENERI...	08...	NOTE	1	BRON A...	NOTE	CLIN	IMAGE	P...
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	DEN Ma...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	CARD M...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	DEN Ma...	NOTE	CLIN	IMAGE	

- Display or hide columns by right-clicking in the Image List and clicking the **Select Columns** option to open the Column Selector window shown. You can select each column name or click **All** to select all column names to display. When you are finished, you can click **OK** to save and close, or **Apply** and **Close**.


Column Selector
OK
Close
Apply
All

☑ Item
☑ Site
☑ Note Title
☑ Proc DT
☑ Procedure
☑ # Img
☑ Short Desc
☑ Pkg
☑ Class
☑ Type
☑ Specialty
☐ Event
☐ Origin
☐ Cap Dt
☐ Cap by
☐ Image ID
☐ Creation Date

Popup Menu in the Image List Window


Open Image
Image Report
Image Delete...
Image Index Edit...
Image Information...
Image Information Advanced...
Cache Images
Select Columns...
Fit Columns to Text
Fit Columns to Window

Menu Option	**Description**
Open Image	Opens the selected image in the appropriate viewer, Full Resolution, Radiology, or Group Abstracts
Image Report	Opens the *Image Report* for the selected image.
Image Delete	[security key required] See *Appendix C: Deleting Images*.
Image Index Edit	[security key required] See *Appendix B: Clinical Display Security Keys.*
Image Information	Displays the image information for the image.
Image Information Advanced	[security key required] Displays more detailed image information exclusively for system managers. See *Image Information.*
Cache Images	Caches images and marks the row in the image list with a
Select Columns	Displays the Column Selector window
Fit Columns to Text	Resize the column so that all text is visible.
Fit Columns to Window	Resizes the columns so that they fit to the window size.

Image Information Window

Note: See *Image Information Window* and *Viewing Image Information* in the chapter *Working with Abstracts*.

Working with Filters in the Image List

The Image List and Abstract window are populated based on the filters that are set. Only the images that fit the criteria of the selected filter are displayed. You can use filters to limit the number of images displayed such as Clinical Type, Specialty or Sub Specialty, or Procedure and Event.

Filters are used in two modes in the interface:

- Normal, used in the Image List window
- Advanced, used in the QA Review utility
  Note: Security keys are required. See *Applying Advanced Filters to the QA Review*.

The two types of filters used in the Image List are:

- Public = filters available to all users indicated by pound (#) sign before the name.
  An example of a public filter is '#Clin All' images.
  Note: Only users holding the MAG SYSTEM security key can create public filters.
- Private = user-specified and available only for users who create them

Applying the Filters in the Image List

Available filters are usually shown as buttons at the top of the Image List. To filter information in the lists, click a filter button for that filter.

If the filter buttons are not visible, they can be displayed as follows:

1. To display all the filters as buttons above the list pane in the Image List window, select **Filters | Filters as Buttons**.
2. To display the filters in stackable rows of buttons, choose **Filters | Multiline Tabs**.

Image Filters Add/Edit Window

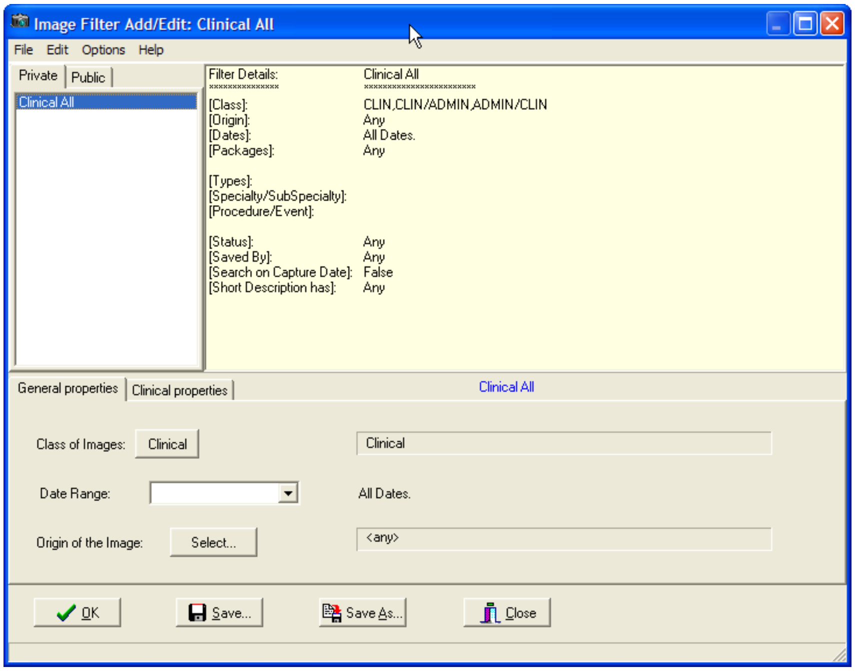


Image Filter Add/Edit: Clinical All
File
Edit
Options
Help
Private
Public
Clinical All
General properties
Clinical properties
Clinical All
OK
Save...
Save As...
Close

```
Filter Details:                Clinical All
****************               **************************
[Class]:                       CLIN,CLIN/ADMIN,ADMIN/CLIN
[Origin]:                      Any
[Dates]:                       All Dates.
[Packages]:                    Any

[Types]:
[Specialty/SubSpecialty]:
[Procedure/Event]:

[Status]:                      Any
[Saved By]:                    Any
[Search on Capture Date]:      False
[Short Description has]:       Any
```

Class of Images: Clinical Clinical

Date Range: All Dates.

Origin of the Image: Select... <any>

File Menu

Menu Option	Description
New	Allows the user to create a new filter.
Save	Saves changes to the selected filter.
Save As	Saves the filter with a new name.
Save as Public	Saves the filter as a public filter. For MAG SYSTEM key holders only.

Edit Menu

Menu Option	Description
Delete Filter	Deletes the selected filter.

Options Menu

Menu Option	Description
Clear All	Clears all filter selections.

Menu Option	Description
Refresh Drop Down Lists	Refreshes all drop down lists for the filter.
Refresh Filter lists	Refreshes the filter lists.
Refresh Details	Refreshed the filter.

File Menu

Menu Option	Description
Image Filter	Displays the Image Filters help file.

Creating Private Filters

1. To create a private filter, perform one of the following steps:

    - In the VistA Imaging Display main window, either click the **Select/Create an Image Filter button** on the tool bar or choose **Options | Image List Filters** from the menu bar.

    - In the Image List window, either click the **Select/Create an Image Filter** on the tool bar or choose **Filters | Image List Filters** from the menu bar.

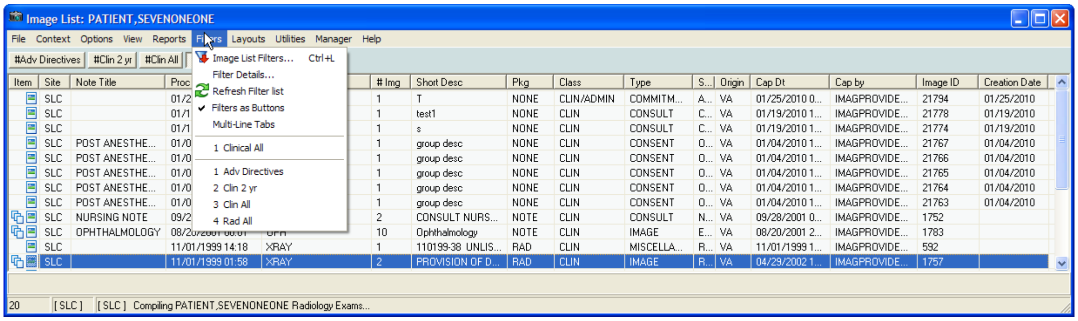


Image List: PATIENT,SEVENONEONE

Item	Site	Note Title	Proc		# Img	Short Desc	Pkg	Class	Type	S...	Origin	Cap Dt	Cap by	Image ID	Creation Date
	SLC		01/2		1	T	NONE	CLIN/ADMIN	COMMITM...	A...	VA	01/25/2010 0...	IMAGPROVIDE...	21794	01/25/2010
	SLC		01/1		1	test1	NONE	CLIN	CONSULT	C...	VA	01/19/2010 1...	IMAGPROVIDE...	21778	01/19/2010
	SLC		01/1		1	s	NONE	CLIN	CONSULT	C...	VA	01/19/2010 1...	IMAGPROVIDE...	21774	01/19/2010
	SLC	POST ANESTHE...	01/0		1	group desc	NONE	CLIN	CONSENT	O...	VA	01/04/2010 1...	IMAGPROVIDE...	21767	01/04/2010
	SLC	POST ANESTHE...	01/0		1	group desc	NONE	CLIN	CONSENT	O...	VA	01/04/2010 1...	IMAGPROVIDE...	21766	01/04/2010
	SLC	POST ANESTHE...	01/0		1	group desc	NONE	CLIN	CONSENT	O...	VA	01/04/2010 1...	IMAGPROVIDE...	21765	01/04/2010
	SLC	POST ANESTHE...	01/0		1	group desc	NONE	CLIN	CONSENT	O...	VA	01/04/2010 1...	IMAGPROVIDE...	21764	01/04/2010
	SLC	POST ANESTHE...	01/0		1	group desc	NONE	CLIN	CONSENT	O...	VA	01/04/2010 1...	IMAGPROVIDE...	21763	01/04/2010
	SLC	NURSING NOTE	09/2		2	CONSULT NURS...	NOTE	CLIN	CONSULT	N...	VA	09/28/2001 0...	IMAGPROVIDE...	1752	
	SLC	OPHTHALMOLOGY	08/2		10	Ophthalmology	NOTE	CLIN	IMAGE	E...	VA	08/20/2001 2...	IMAGPROVIDE...	1783	
	SLC		11/01/1999 14:18	XRAY	1	110199-38 UNLIS...	RAD	CLIN	MISCELLA...	R...	VA	11/01/1999 1...	IMAGPROVIDE...	592	
	SLC		11/01/1999 01:58	XRAY	2	PROVISION OF D...	RAD	CLIN	IMAGE	R...	VA	04/29/2002 1...	IMAGPROVIDE...	1757	

20 [SLC] [SLC] Compiling PATIENT,SEVENONEONE Radiology Exams...

The Image Filters Add/Edit window opens.

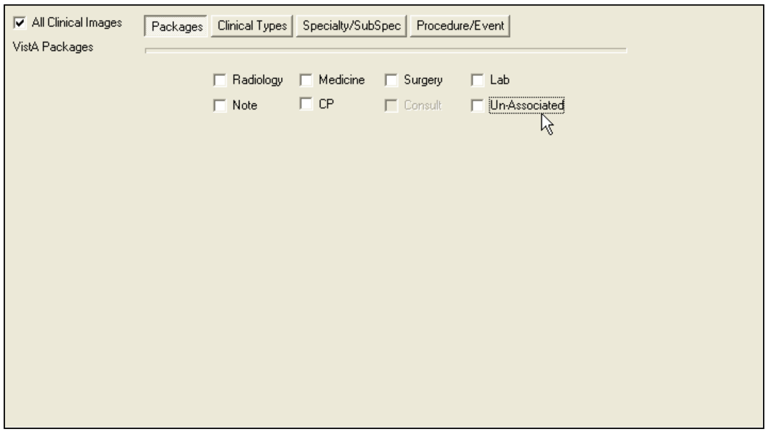
2. Choose **File | New** from the menu bar.

    - The filter information in the Filter Details pane is cleared so that you can specify a new filter.

    - The title bar changes from the current filter to "Image Filter Add/Edit: Custom" to indicate that you are working in custom mode when you create a filter. Once the filter is saved and you select it in the Private or Public pane, the filter name is displayed in the title bar in place of "Custom".

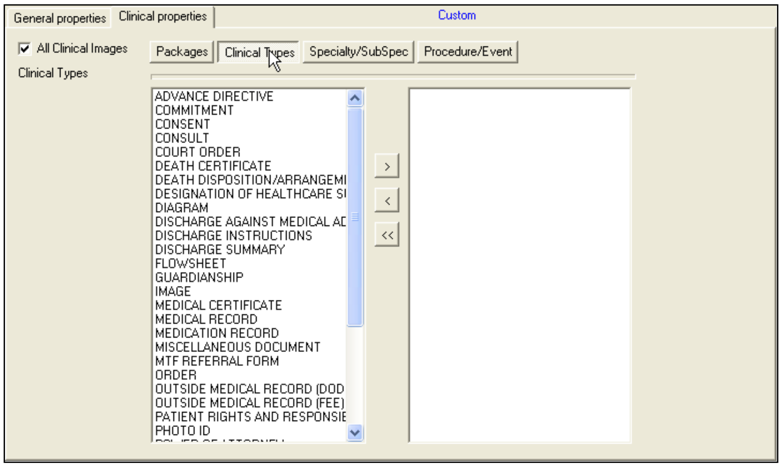
3. Select the General Properties tab in the lower pane.
4. At the Class of Images field, select a class:
    - Clinical for diagrams and images
    - Administrative for Means Test, Forms, Advanced Directives

    Note: For some users, only the **Clinical** setting is available, as shown. Filters can be either Clinical or Administrative. System Administrators assign users access to Clinical , Administrative or both types of filters.
5. Select the data range from the drop-down list.
6. At the Origin of the Image field, click the **Select** button, specify the origins for the filter in the Origin Selection window, and click **OK**.
7. Select the Clinical Properties tab and on the Packages window displayed, select the VistA packages that you want.


☑ All Clinical Images
VistA Packages
Packages
Clinical Types
Specialty/SubSpec
Procedure/Event
☐ Radiology
☐ Medicine
☐ Surgery
☐ Lab
☐ Note
☐ CP
☐ Consult
☐ Un-Associated

8. For the Clinical Types, Specialty/SubSpec, and Procedure/Event windows, select the filter criteria that you want.

Note: If you do not make a selection, the system includes all of the entries in the list. All three windows work the same way.


General properties
Clinical properties
Custom
☑ All Clinical Images
Clinical Types
Packages
Clinical Types
Specialty/SubSpec
Procedure/Event
ADVANCE DIRECTIVE
COMMITMENT
CONSENT
CONSULT
COURT ORDER
DEATH CERTIFICATE
DEATH DISPOSITION/ARRANGEMI
DESIGNATION OF HEALTHCARE SI
DIAGRAM
DISCHARGE AGAINST MEDICAL AI
DISCHARGE INSTRUCTIONS
DISCHARGE SUMMARY
FLOWSHEET
GUARDIANSHIP
IMAGE
MEDICAL CERTIFICATE
MEDICAL RECORD
MEDICATION RECORD
MISCELLANEOUS DOCUMENT
MTF REFERRAL FORM
ORDER
OUTSIDE MEDICAL RECORD (DOD
OUTSIDE MEDICAL RECORD (FEE)
PATIENT RIGHTS AND RESPONSIE
PHOTO ID
>
<
<<

9. To save your new private filters, click the **Save** button at the bottom of the Image Filter Add/Edit window.

10. In the Save As Private Filter window displayed, enter the name of the new filter in the Private Filter Name field

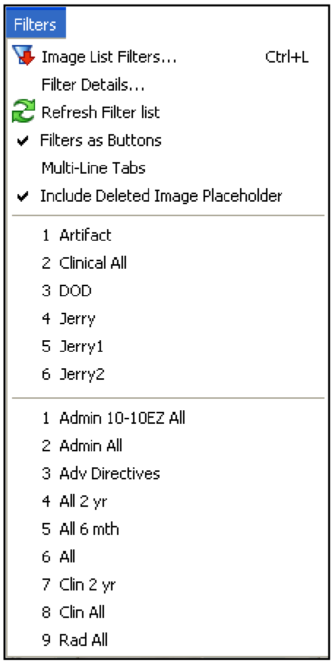
    Note: The filter name must be at least three characters in length with no special characters (like punctuation marks or slashes). The name can be all numeric, all alphas, or mixed.

11. Click **Save** and then **OK** or **Close**.

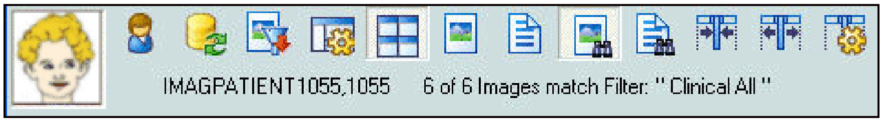
    Note: The **Save As** button operates the same way. The **OK** button does not save the filter information but simply closes the window like the Close button.

    Important: If you have the MAG SYSTEM security key, you can choose the **File| Save as Public** option to save the filter as a public filter.

The filters are listed at the bottom of the Filters menu. The first group is private filters, shown as numbers 1 – 6 in the example. The second group is public filters, shown as numbers 1-9 in the example.


Filters
Image List Filters... Ctrl+L
Filter Details...
Refresh Filter list
✓ Filters as Buttons
Multi-Line Tabs
✓ Include Deleted Image Placeholder
1 Artifact
2 Clinical All
3 DOD
4 Jerry
5 Jerry1
6 Jerry2
1 Admin 10-10EZ All
2 Admin All
3 Adv Directives
4 All 2 yr
5 All 6 mth
6 All
7 Clin 2 yr
8 Clin All
9 Rad All

When you select a patient, the total image count for the patient will be displayed with the number of images that match the filter in use. In the following example, there are 6 images for this patient and all 6 match the Clinical All filter.


IMAGPATIENT1055,1055 6 of 6 Images match Filter: " Clinical All "

Editing or Deleting a Private Filter or Filter Details

Note: You can edit a Private Filter by selecting the filter name from the Private tab. You can create a new filter by the same name as an old filter and then save and overwrite the old filter.

1. Open the Image Filter Add/Edit window.

   Your newly created filters are listed in the Private filtes pane, as shown in the example.

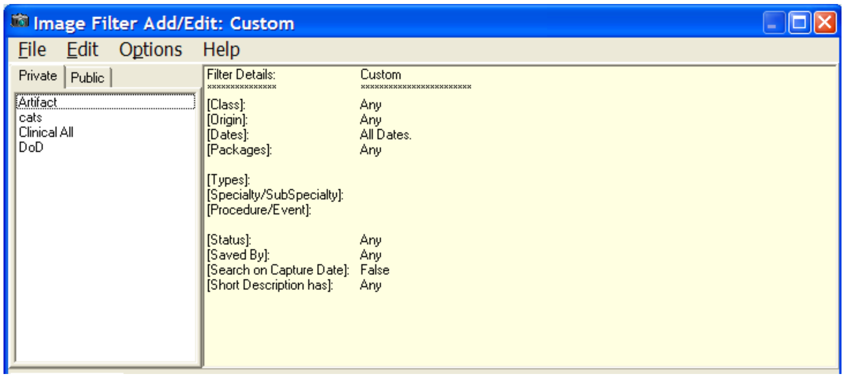


Image Filter Add/Edit: Custom
File
Edit
Options
Help
Private
Public
Artifact
cats
Clinical All
DoD

```
Filter Details:               Custom
***************               ************************
[Class]:                      Any
[Origin]:                     Any
[Dates]:                      All Dates.
[Packages]:                   Any

[Types]:
[Specialty/SubSpecialty]:
[Procedure/Event]:

[Status]:                     Any
[Saved By]:                   Any
[Search on Capture Date]:     False
[Short Description has]:      Any
```

2. To clear the fields but keep the filter, select the filter in the Private pane and choose **Options | Clear All** from the menu bar.

3. Re-enter the filter values and save.

4. To delete a filter, right-click it in the Private filters pane and click **Delete,** or select the filter and choose **Edit | Delete Filter**.

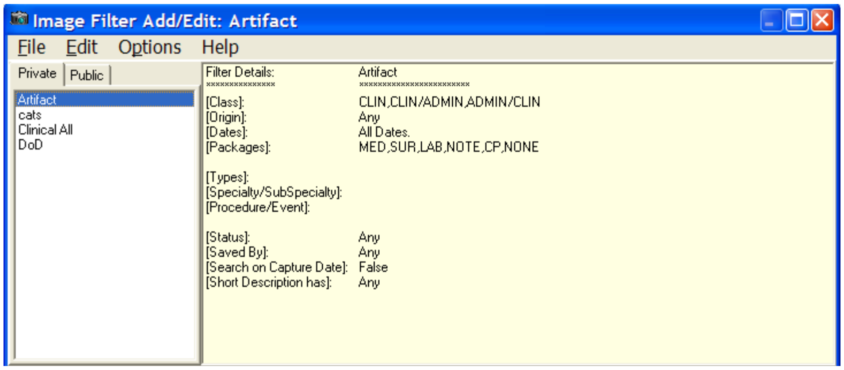


Image Filter Add/Edit: Artifact
File
Edit
Options
Help
Private
Public
Artifact
cats
Clinical All
DoD

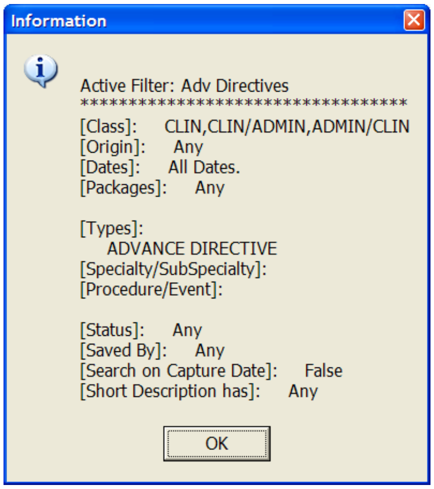
```
Filter Details:               Artifact
***************               ************************
[Class]:                      CLIN,CLIN/ADMIN,ADMIN/CLIN
[Origin]:                     Any
[Dates]:                      All Dates.
[Packages]:                   MED,SUR,LAB,NOTE,CP,NONE

[Types]:
[Specialty/SubSpecialty]:
[Procedure/Event]:

[Status]:                     Any
[Saved By]:                   Any
[Search on Capture Date]:     False
[Short Description has]:      Any
```

5. Click **OK** in the delete confirmation message.

6. To refresh your filters, choose any of the following options from the menu bar:

    - **Options | Refresh Drop Down Lists**
    - **Options | Refresh Filter Lists**
    - **Options | Refresh Details**

7. After you are finished, choose **Filters |Filter Details** to view your filters in detail, as shown in this example.



```
Active Filter: Adv Directives
**********************************
[Class]:     CLIN,CLIN/ADMIN,ADMIN/CLIN
[Origin]:     Any
[Dates]:     All Dates.
[Packages]:     Any

[Types]:
     ADVANCE DIRECTIVE
[Specialty/SubSpecialty]:
[Procedure/Event]:

[Status]:     Any
[Saved By]:     Any
[Search on Capture Date]:     False
[Short Description has]:     Any
```

Viewing Deleted Image Placeholders

To show or hide deleted image placeholders, select **Filters | Deleted Image Placeholder.** Selecting this option enables the display of deleted image placeholders for a deleted image in the Image List window and the Abstracts window. This option is saved as a user preference.

The following icons are used for deleted image placeholders: Deleted Image Deleted Group

Viewing Patient Clinical Records in VistA

Patient clinical records consist of:

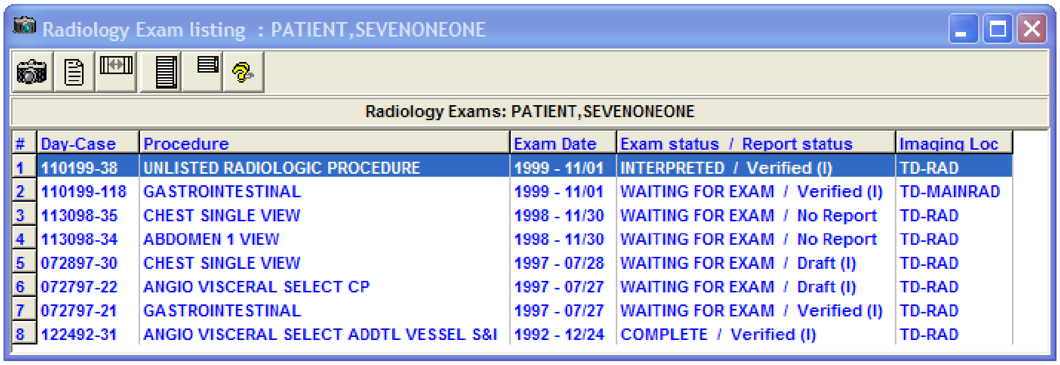
- Radiology Exams
- Progress Notes
- Clinical Procedures
- Consults

You can view them using the View menu in the Main Display window. You can choose to display the radiology exams and progress notes when you select a patient by setting user preferences on the Image List window or the main Clinical Display window. See *Configuring the Display of Windows for Patient Selection*.

Viewing Radiology Exams

The Radiology Exam Listing window displays the radiology studies for the selected patient. You can view images associated with the exam report or view the exam report itself.

1. From the VistA Imaging Display main window or the Image List window, choose **View | Radiology Exams** from the menu bar.



Radiology Exams: PATIENT,SEVENONEONE

#	Day-Case	Procedure	Exam Date	Exam status / Report status	Imaging Loc
1	110199-38	UNLISTED RADIOLOGIC PROCEDURE	1999 - 11/01	INTERPRETED / Verified (I)	TD-RAD
2	110199-118	GASTROINTESTINAL	1999 - 11/01	WAITING FOR EXAM / Verified (I)	TD-MAINRAD
3	113098-35	CHEST SINGLE VIEW	1998 - 11/30	WAITING FOR EXAM / No Report	TD-RAD
4	113098-34	ABDOMEN 1 VIEW	1998 - 11/30	WAITING FOR EXAM / No Report	TD-RAD
5	072897-30	CHEST SINGLE VIEW	1997 - 07/28	WAITING FOR EXAM / Draft (I)	TD-RAD
6	072797-22	ANGIO VISCERAL SELECT CP	1997 - 07/27	WAITING FOR EXAM / Draft (I)	TD-RAD
7	072797-21	GASTROINTESTINAL	1997 - 07/27	WAITING FOR EXAM / Verified (I)	TD-RAD
8	122492-31	ANGIO VISCERAL SELECT ADDTL VESSEL S&I	1992 - 12/24	COMPLETE / Verified (I)	TD-RAD

2. Select a study and click on any of the following buttons to view the results or change the layout of the window.

Button	Description
View Image	View the images of a selected study in the Group Abstracts window. **Note**: Double-clicking the row works the same way.
View Report	View the report for the selected study.
Reset Column Width	Reset the column width on the exam listing window.
Stretch Height to Maximum	Set the exam window to the maximum height.
Reset to Starting Height	Set the exam window to the starting height.
Help	Display user help for the exam window.

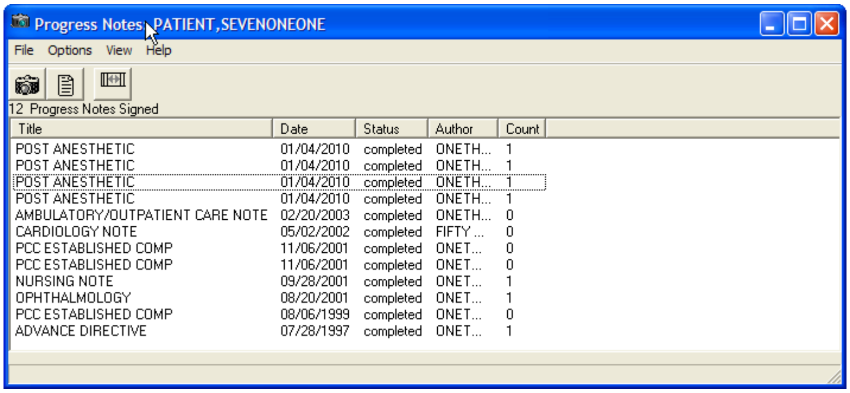
Viewing Progress Notes, Clinical Procedures and Consults

1. To view the information from the main display window, choose **View | Progress Notes**, **Clinical Procedures**, or **Consults**.

2. To sort the list in a column, select the column header, and to reverse the order re-select the column header.

3. Double-click any Progress Note title to open the TIU Document Images window and the abstracts behave in the same way as they do in the Abstracts window and Group Abstracts window.

   An example of a Progress Notes list is shown below. The Clinical Procedures and Consults lists are built and shown in the same window style.



12 Progress Notes Signed

Title	Date	Status	Author	Count
POST ANESTHETIC	01/04/2010	completed	ONETH...	1
POST ANESTHETIC	01/04/2010	completed	ONETH...	1
POST ANESTHETIC	01/04/2010	completed	ONETH...	1
POST ANESTHETIC	01/04/2010	completed	ONETH...	1
AMBULATORY/OUTPATIENT CARE NOTE	02/20/2003	completed	ONETH...	0
CARDIOLOGY NOTE	05/02/2002	completed	FIFTY ...	0
PCC ESTABLISHED COMP	11/06/2001	completed	ONET...	0
PCC ESTABLISHED COMP	11/06/2001	completed	ONET...	0
NURSING NOTE	09/28/2001	completed	ONET...	1
OPHTHALMOLOGY	08/20/2001	completed	ONET...	1
PCC ESTABLISHED COMP	08/06/1999	completed	ONET...	0
ADVANCE DIRECTIVE	07/28/1997	completed	ONET...	1

4. To view the associated image, click the **View Image** button .

5. To view the associated report, click the **View Report** button .
   Note: For details on displaying reports, see *Displaying Reports*.

6. To change the column width, drag the left or right border and to return to the original width, click the **Reset Column Width** button .

Viewing Controlled Images in the Image List Window

To protect the privacy of the patient, images of a sensitive nature can be marked as controlled. You can mark an individual image or an image in a group as a controlled image. The Controlled Image icon ⚠ is displayed for an item in the tree view and Image List if the controlled image is a:

- Standalone (single) image
- Image Group
- Image Group where the first image in the group is controlled

Note: For a description of the types of controlled images, see *Controlled Images in the Abstracts Window*.

Important: To mark an image as a controlled image in the Image List, you must have a patient selected and the Image List open.

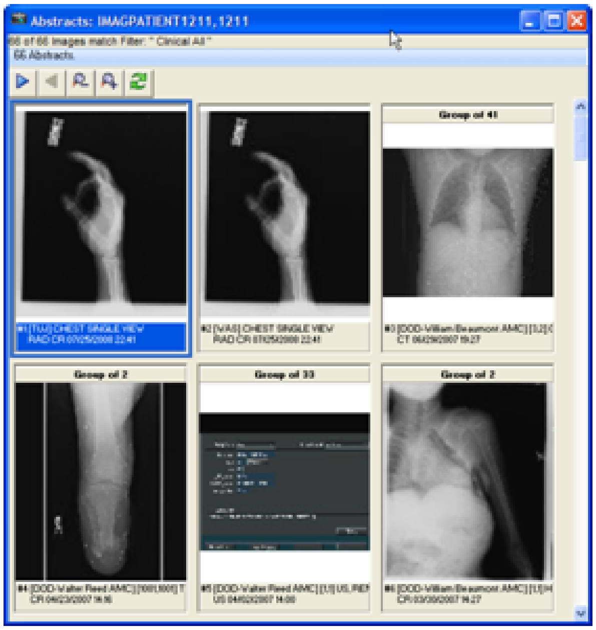
1. Select an entry in the Image List that does not have the Controlled Image ⚠ icon.
2. From the menu bar, choose **Utilities| Controlled Image**, and change the value for a controlled image to **True**.
   Note: The Utilities Menu option is available only to holders of the MAG EDIT or MAG SYSTEM security keys.
3. Click the Refresh **Patient Images button** .
   The image entry is now marked as controlled ⚠ in the Image List and tree view.

Working with Abstracts

In Clinical Display, all images are displayed as abstracts in the Abstracts window. An *abstract* is a reduced quality representation (or thumbnail) of the actual image.

Abstracts Window

The title bar of the Abstracts window displays the patient name. If multiple images fill the window, a scroll bar is automatically displayed to move through the images.


Abstracts: IMAGPATIENT1211,1211
66 of 66 images match Filter: " Clinical All "
66 Abstracts
Group of 41
Group of 2
Group of 33
Group of 2

Note: Only abstracts that match the selected filter are displayed in the Abstracts window.

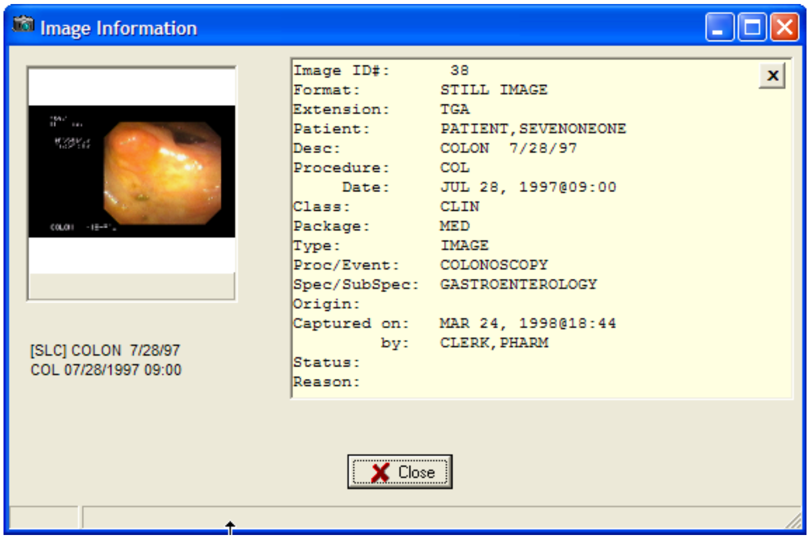
Image Group Abstracts Window

Selecting an image group abstract opens the Group Abstracts window and an abstract of each image of the group is displayed. Selecting any image in this group displays it in the appropriate viewer. The Group Abstracts window has the same properties as the Abstracts window.

Note: An Image Group is represented by showing the first image abstract in the group as the preview and text above the preview stating the number of images in the group

Image Information Window

Image Information is displayed in the Image Information window when you right-click an abstract and select Image Information from the popup menu in the Abstracts window (or right-click a row in the Image List window).



[SLC] COLON 7/28/97
COL 07/28/1997 09:00

```
Image ID#:      38
Format:        STILL IMAGE
Extension:     TGA
Patient:       PATIENT,SEVENONEONE
Desc:          COLON  7/28/97
Procedure:     COL
     Date:     JUL 28, 1997@09:00
Class:         CLIN
Package:       MED
Type:          IMAGE
Proc/Event:    COLONOSCOPY
Spec/SubSpec:  GASTROENTEROLOGY
Origin:
Captured on:   MAR 24, 1998@18:44
         by:   CLERK,PHARM
Status:
Reason:
```

This window provides the following information for verification purposes:

- Details about the image and the associated procedure
- Image ID and, if applicable, the image group
- Patient name
- Description of the image followed by the procedure and date
- Image indexes
- Capture date (date the image was added to the patient record) and user who captured the image
- Status and reason for the status

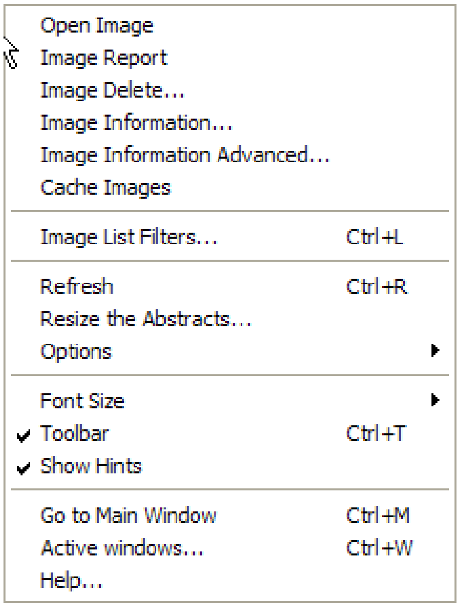
Tool Bar in the Abstracts Window

Button	**Description**
Next Page	Displays the next page of images
Previous Page	Displays the previous page of images
Decrease Abstract Size	Decreases the size of all the displayed abstracts

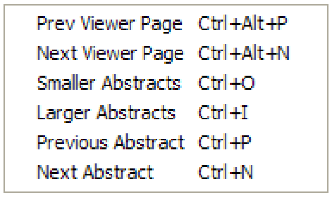
Button	Description
Increase Abstract Size	Increases the size of all the displayed abstracts
Refresh	Refreshes the Abstracts window.

Popup Menu in the Abstracts Window

By right clicking on any image abstract you will open a popup menu. This popup menu gives you shortcuts to options and actions you may perform. Certain options are unavailable depending on the security keys that you hold.


Open Image
Image Report
Image Delete...
Image Information...
Image Information Advanced...
Cache Images
Image List Filters... Ctrl+L
Refresh Ctrl+R
Resize the Abstracts...
Options
Font Size
✓ Toolbar Ctrl+T
✓ Show Hints
Go to Main Window Ctrl+M
Active windows... Ctrl+W
Help...

Menu Option	Description
Open Image	Opens the selected image in the appropriate viewer such as Full Resolution, Radiology, or Group Abstracts.
Image Report	**Opens the Image Report for the selected image.**
Image Delete	Deletes an image only if you hold the proper security keys. See *Appendix C: Deleting Images*.
Image Information	Opens the *Image Information Window.*
Image Information Advanced	Opens the *Image Information/Properties Window*.
Cache Images	Cache all the images in the selected group in the background
Image List Filters	Opens the *Image Filters Add/Edit Window*.
Refresh	Refreshes the Abstracts window

Menu Option	Description
Resize the Abstracts	When selected, an abstract displays a green border that you can drag to the size that you want. When you select **Finish** in the Resize Abstracts window, all the abstracts are resized to the same dimensions as the selected abstract.
Options	Displays the following options, which are the same as the buttons on the tool bar:  Prev Viewer Page Ctrl+Alt+P Next Viewer Page Ctrl+Alt+N Smaller Abstracts Ctrl+O Larger Abstracts Ctrl+I Previous Abstract Ctrl+P Next Abstract Ctrl+N **Note**: The Previous Abstract and Next Abstract buttons are not on the tool bar.
Font Size	Selectable font sizes from 6pt to 12pt
Tool bar	Displays or hides the tool bar in the Abstracts window
Show Hints	Activates or deactivates the Hints.
Go to Main Window	Displays the *VistA Imaging Display Main Window*.
Active Windows	Displays a list of active windows. Select one of the windows from the list to bring the window to the front.
Help	Displays online help

Viewing Abstracts

1. From the VistA Imaging Display main window, select a patient.

2. Click the **Open the Abstracts Window** button tool on the tool bar.

   The Abstracts window opens with the abstracts displayed.

3. Click on a single abstract to open the image in full view.

   The appropriate viewer is selected. For details on the various viewers, see *Description of the Viewers*.

4. To view an image group, select the image group that you want to view.

   The group opens in the Group Abstracts window.

5. Click an image.

   The image is displayed in full view in the appropriate viewer.

Note: If the Deleted Image placeholder is checked, the abstracts window will display the deleted image placeholder icon.

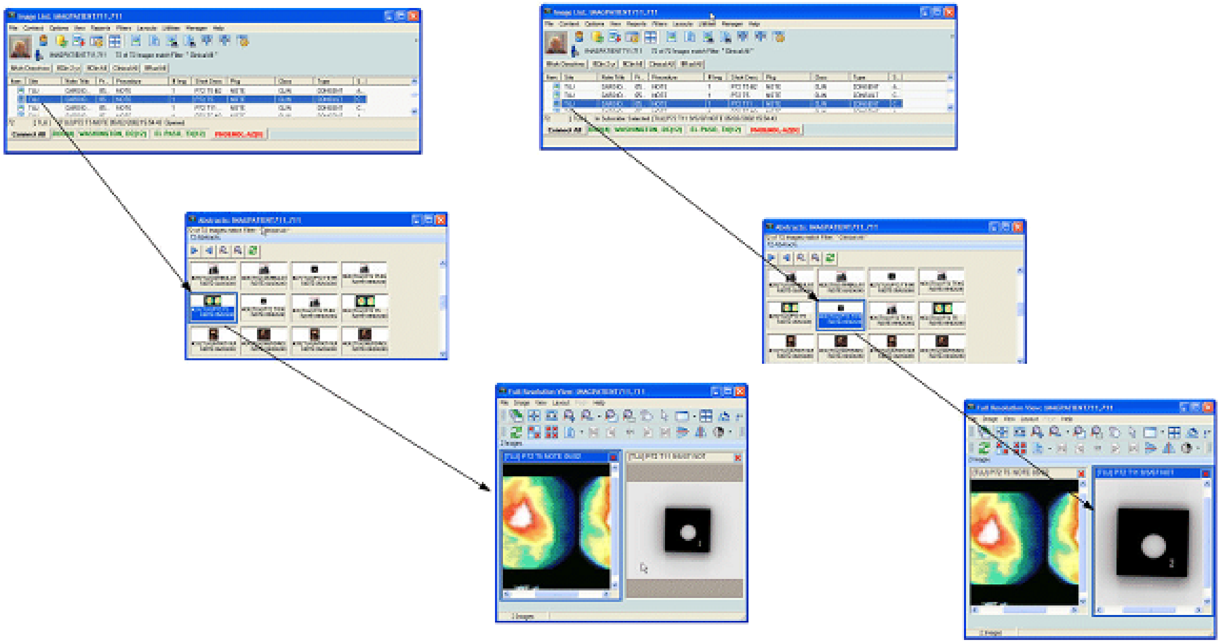
Viewing Image Information

1. To view the image information either:
    - In the Image List window, right-clicking a row and select **Image Information.**
    - In the Abstracts window, right -click an abstract and select **Image Information.**
2. View the information as shown in this example and then click **Close**.

Synchronizing Image Data in Related Windows

Clinical Display synchronizes the selected images in the related windows for a selected patient. For example, if you select an image in the Image List window the abstract of that image will be selected in the Abstracts window, it will be displayed in the appropriate viewer, as shown in the example below.

If the Image List window is configured to show the image lists, tree view, abstracts, and report previews the same image will be selected in each of the panes of that window.



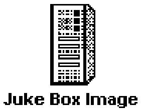
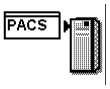
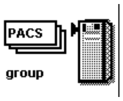
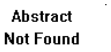
Note: Even if you do not have the Abstracts and Image List displayed in the same window, they will be synchronized, along with all of the other windows such as the Preview Report and Information panes.

Viewable and Non-Viewable Images

The following sections explain which images are viewable and non-viewable for various reasons.

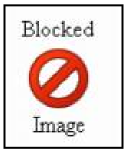
Images That Are Not Viewable Due to an Error

If any of the following bitmaps are displayed in the Abstracts window instead of the actual image, the following table explains how to resolve this problem.

Bitmap	Reason and Solution for Inability to View an Abstract
	If one of the abstracts is located on the Juke Box, 'Display Juke Box Images' must be selected in the View Preferences window to have the abstract displayed. Otherwise, this generic bitmap is displayed. Clicking this button causes the full resolution image to be displayed in the appropriate window.
Error Connecting to Image Server	If the VISTA Imaging application cannot connect to the VISTA Imaging Network server to retrieve images, this Error bitmap is displayed. Call the IRM Service to report this problem.
	If an image from a PACS device has not been copied to the VISTA Imaging server, this PACS bitmap is displayed. Contact the Help Desk or your system manager.
	If an image group from a PACS device has not been copied to the VISTA Imaging server, this PACS Group bitmap is displayed. Contact the Help Desk or your system manager.
Error opening abstract.	If an Error occurs in displaying an abstract, this Error opening abstract bitmap is displayed. Call the IRM Service to report this problem.
FORMAT ERROR loading Image File	If the Abstract file is corrupt or cannot be opened by VISTA Imaging, this Format Error bitmap is displayed. Call the IRM Service to report this problem.
Motion Video	If the Image file is a motion video file, this Motion Video bitmap is displayed. Selecting this graphic causes the motion video to be displayed in the Video window.
	If the abstract does not exist on the Image Server, this Abstract Not Found bitmap is displayed. Selecting the graphic may display the full-resolution image in the appropriate window.
I.D. mismatch	If there is a possible database integrity problem with the Image File entry, this ID mismatch bitmap is displayed. This image may require corrections. Contact the site's Imaging ADPAC and/or Coordinator.

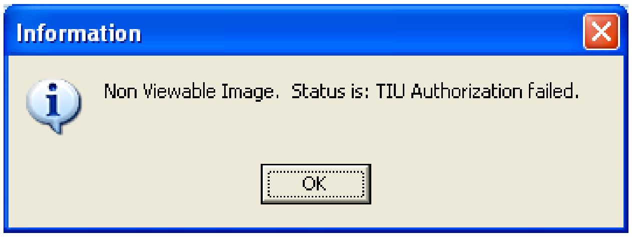
Blocked Images in the Abstracts Window

Some images are blocked from view for some users. Such images are labeled as blocked and the abstract is displayed as the bitmap shown:



Users who do not hold the **MAG EDIT** or **MAG SYSTEM** security keys are blocked from viewing images marked as Needs Review. The three types of blocked images are:

- TIU business rules (set in VistA and enforced in Clinical Display). If you select an image that is blocked due to a TIU Authorization failure, the system displays the following message.

  Non Viewable Image. Status is: TIU Authorization failed.

  Exception: If you hold the **MAG DELETE** security key, you can view the Image from the Image Delete window to make an informed decision before deleting it.

- Questionable Integrity: When an image entry is accessed for viewing the Questionable Integrity (QI) check is run before the image data is returned to the Client. If the image data does not pass the QI check then the image is marked as QI.

- Images That Need Review

  If you select an image with a status of “Needs Review” and are assigned the MAG EDIT or MAG SYSTEM security key, the system displays a warning message explaining that the image is a blocked non-viewable image with a status of “Needs Review”. Clicking OK closes the message but clicking **Ignore** enables you to view the image.

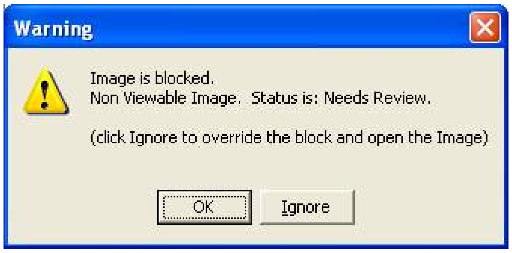
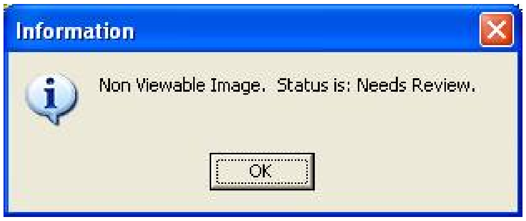
  

  Image is blocked.
  Non Viewable Image. Status is: Needs Review.

  (click Ignore to override the block and open the Image)

If you select an image with a status of “Needs Review” and are not assigned the MAG EDIT or MAG SYSTEM security key, the system displays a warning message that the image is not viewable with the status of "Needs Review". Clicking **OK** closes the message.

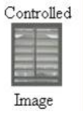

Information

Non Viewable Image. Status is: Needs Review.

Controlled Images in the Abstracts Window

To protect the privacy of the patient, images of a sensitive nature can be marked as controlled. The abstracts of controlled images are not displayed.

You can mark an image "controlled" through the Index Edit Utility if you are assigned the **MAG EDIT or MAG SYSTEM** security key. The default bitmap of a window shade with the text Controlled Image is shown in place of the abstract.

A controlled image can be opened by clicking the  default bitmap.

File Types Viewable in Clinical Display

The following file types when selected in the Abstracts window are automatically displayed in full view in the following viewers in Clinical Display.

File Extension	Image Type	Viewer Used
756	Historical 756	Radiology Viewer
ASC	Text file Image extension	Full Resolution Viewer
AVI	Motion Video	Video Player
BIG	X-ray big file 2000K	Radiology Viewer
BMP	Bitmap file	Full Resolution Viewer
BW	Black and White	Full Resolution Viewer
DCM	DICOM file	Radiology Viewer
HTM	Web Document	Full Resolution Viewer
HTML	Web Document	Full Resolution Viewer
JPG	Full Color	Full Resolution Viewer
MHT	MIME HTML Document	Full Resolution Viewer
MHTML	MIME HTML Document	Radiology Viewer

File Extension	Image Type	Viewer Used
PAC	X-ray image	Radiology Viewer
PDF	Adobe Acrobat	Full Resolution Viewer
TGA	Targa Image	Radiology Viewer
TIF	Scanned Document	Full Resolution Viewer
TXT	Text file import	Full Resolution Viewer

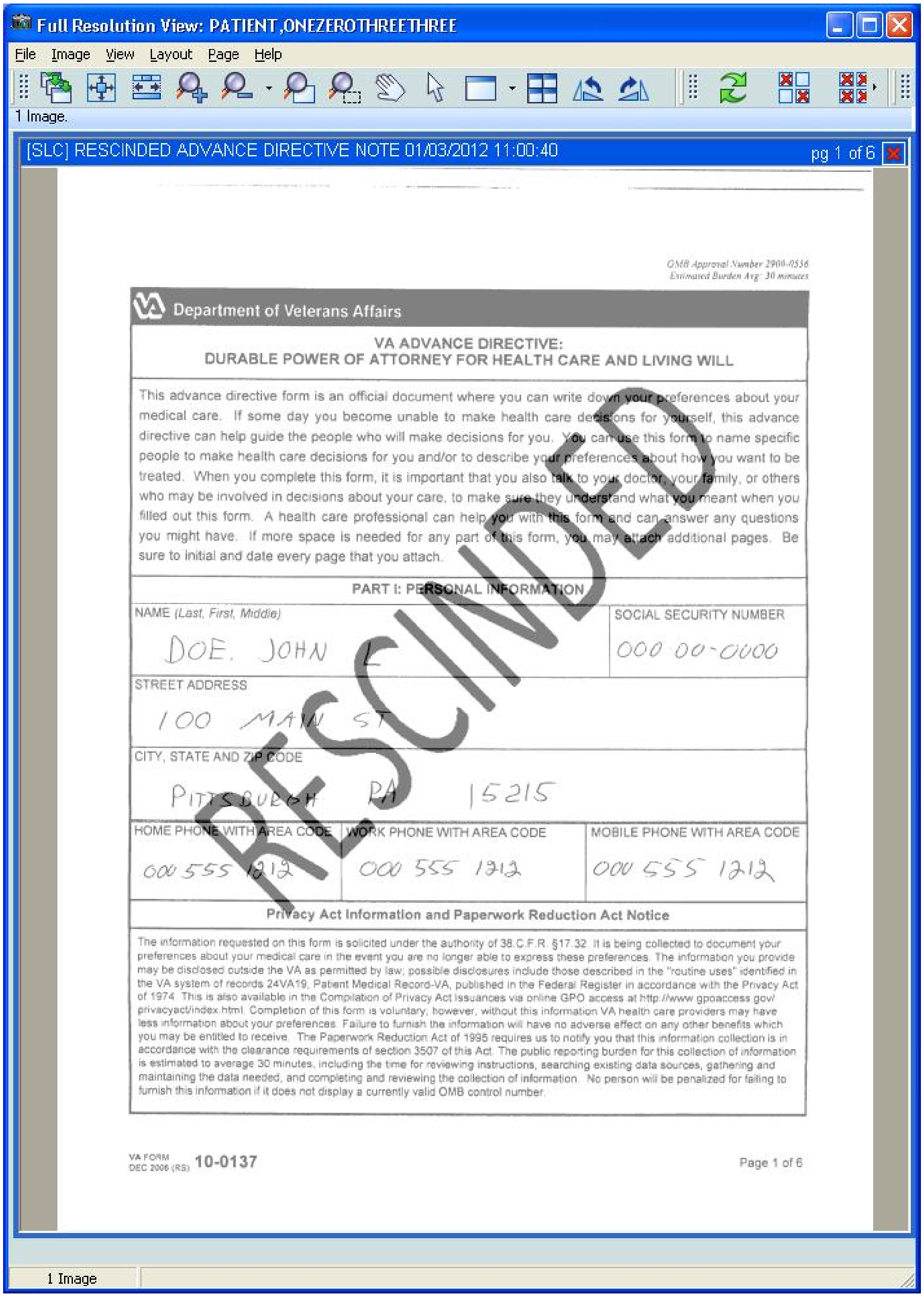
File Types Viewable Using an Alternate Viewer

When you select any of the following file types in the Abstracts window, you can choose to display the full view in Clinical Display or in an alternate viewer (outside Clinical Display) such as the Windows Media Player.

File Extension	Image Type
DOC/ DOCX	Word Document
MP3	Motion Video MPEG-3
MP4	Motion Video 4
MPEG	Motion Video
MPG	Motion Video
RTF	Rich Text Format
WAV	Audio file

Watermarked Images for Rescinded Advance Directives

When an Advance Directive Note is rescinded through the TIU menu option, the images that are attached to that note are watermarked with the text “Rescinded”. You can view the watermarked images when you select them. The following figure shows a watermarked image.


Full Resolution View: PATIENT,ONEZEROTHREETHREE
File
Image
View
Layout
Page
Help
1 Image.
[SLC] RESCINDED ADVANCE DIRECTIVE NOTE 01/03/2012 11:00:40
pg 1 of 6
RESCINDED
1 Image

OMB Approval Number 2900-0556
Estimated Burden Avg: 30 minutes

Department of Veterans Affairs

VA ADVANCE DIRECTIVE:
DURABLE POWER OF ATTORNEY FOR HEALTH CARE AND LIVING WILL

This advance directive form is an official document where you can write down your preferences about your medical care. If some day you become unable to make health care decisions for yourself, this advance directive can help guide the people who will make decisions for you. You can use this form to name specific people to make health care decisions for you and/or to describe your preferences about how you want to be treated. When you complete this form, it is important that you also talk to your doctor, your family, or others who may be involved in decisions about your care, to make sure they understand what you meant when you filled out this form. A health care professional can help you with this form and can answer any questions you might have. If more space is needed for any part of this form, you may attach additional pages. Be sure to initial and date every page that you attach.

PART I: PERSONAL INFORMATION

NAME *(Last, First, Middle)* DOE, JOHN L	SOCIAL SECURITY NUMBER 000-00-0000

STREET ADDRESS
100 MAIN ST

CITY, STATE AND ZIP CODE
PITTSBURGH PA 15215

HOME PHONE WITH AREA CODE 000 555 1212	WORK PHONE WITH AREA CODE 000 555 1212	MOBILE PHONE WITH AREA CODE 000 555 1212

Privacy Act Information and Paperwork Reduction Act Notice

The information requested on this form is solicited under the authority of 38.C.F.R. §17.32. It is being collected to document your preferences about your medical care in the event you are no longer able to express these preferences. The information you provide may be disclosed outside the VA as permitted by law; possible disclosures include those described in the "routine uses" identified in the VA system of records 24VA19, Patient Medical Record-VA, published in the Federal Register in accordance with the Privacy Act of 1974. This is also available in the Compilation of Privacy Act Issuances via online GPO access at http://www.gpoaccess.gov/privacyact/index.html. Completion of this form is voluntary; however, without this information VA health care providers may have less information about your preferences. Failure to furnish the information will have no adverse effect on any other benefits which you may be entitled to receive. The Paperwork Reduction Act of 1995 requires us to notify you that this information collection is in accordance with the clearance requirements of section 3507 of this Act. The public reporting burden for this collection of information is estimated to average 30 minutes, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. No person will be penalized for failing to furnish this information if it does not display a currently valid OMB control number.

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Description of the Viewers

Note: The Clinical Display application automatically selects the appropriate viewer any time an image is opened from an abstract, the Image List, Tree View, menu options, etc.

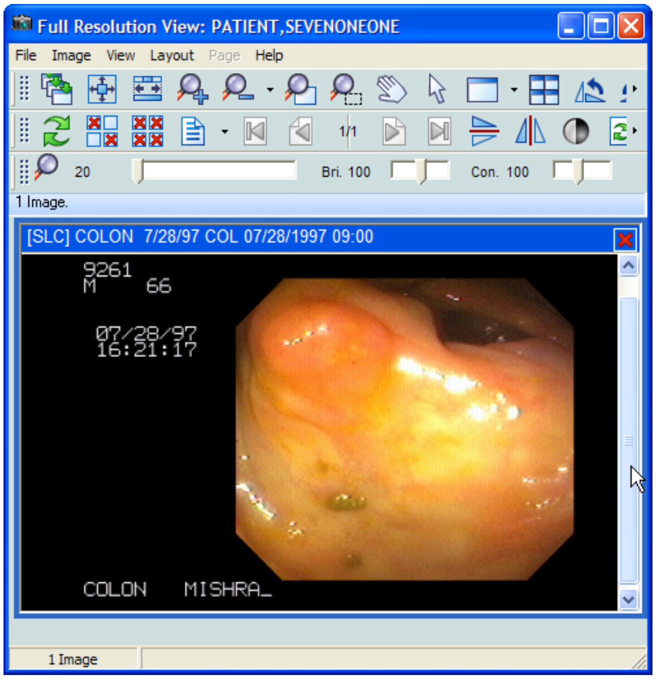
You can view the image in full view in various ways:

- When you double-click an entry in the image list the image or image group is opened in the Full Resolution Viewer, Radiology Viewer, or for image groups, the Group Abstracts window is opened with the selected images.
- A user preference can be set to automatically select the row by just placing the mouse over the row.

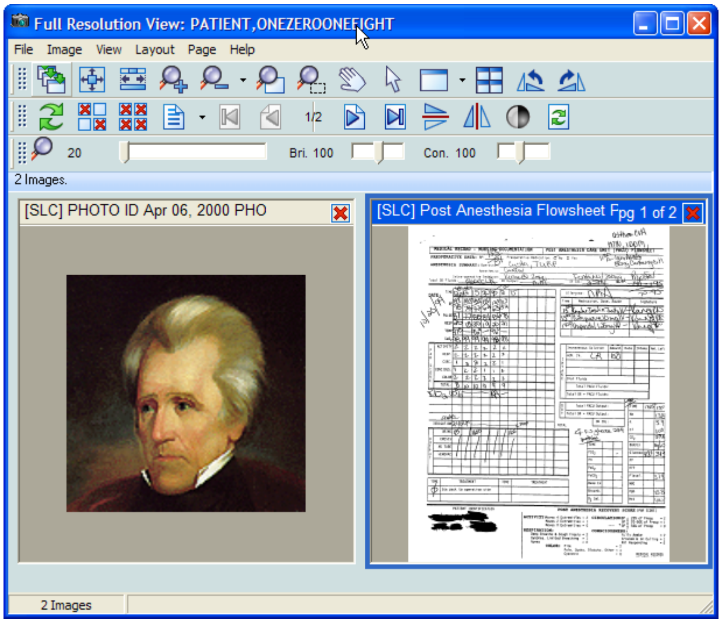
Double-clicking a row opens the viewer for a single image, or the Group Abstracts window for image groups. A user preference can be set to automatically open the image in the appropriate viewer by just placing the mouse over the row.

Full Resolution Viewer

Clicking a single image abstract opens the image in the appropriate viewers. Non-DICOM images are automatically opened in the Full Resolution Viewer, as shown in this example.

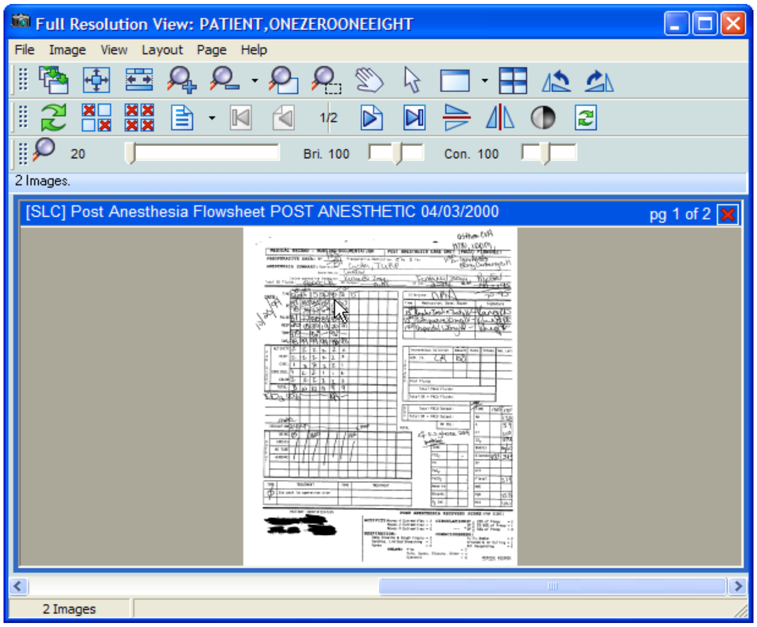

Full Resolution View: PATIENT,SEVENONEONE
File
Image
View
Layout
Page
Help
1/1
20
Bri. 100
Con. 100
1 Image.
[SLC] COLON 7/28/97 COL 07/28/1997 09:00
9261
M 66
07/28/97
16:21:17
COLON MISHRA_
1 Image

The viewer provides tools to assist you while working with images. The configurable tool bar menus are explained in detail in this section. You can select one or more Non-DICOM images from the Abstracts window to load in to the viewer.


Full Resolution View: PATIENT,ONEZEROONEEIGHT
File Image View Layout Page Help
1/2
20
Bri. 100
Con. 100
2 Images.
[SLC] PHOTO ID Apr 06, 2000 PHO
[SLC] Post Anesthesia Flowsheet Fpg 1 of 2
2 Images

When you click on a single non-DICOM image that is not part of an Image Group from the Abstracts Window or the Image List, the image opens in the Full Resolution Viewer. The image is selected in the Abstracts window and the row is selected on the Image List.

If there are multiple images open in the Full Resolution Viewer you can bring an image to its full size in the viewer by moving the mouse over the image and double-clicking. The example shown below is an image from the Full Resolution Viewer at full size.


Full Resolution View: PATIENT,ONEZEROONEEIGHT
File Image View Layout Page Help
1/2
20
Bri. 100
Con. 100
2 Images.
[SLC] Post Anesthesia Flowsheet POST ANESTHETIC 04/03/2000
pg 1 of 2
2 Images

Menu Bar in the Full Resolution Viewer

File Menu

Menu Option	**Description**
Duplicate Selected Image	Creates a copy of the selected image inside the Full Resolution Viewer. The duplicate image is treated as a unique and separate image.
Copy Image to Clipboard	Copies the selected image to the Clipboard. See Printing and Copying Images for details.
Print Image	Prints the selected image. See Printing and Copying Images for details.
Image Report	**Opens the Image Report for the selected image.**
Image Delete	Delete the selected image. See Appendix C for deleting images.
Close Selected Image	Closes the selected image. If a duplicate was made of the image the duplicate will remain open.
Close All Images	Closes all of the images in the Full Resolution Viewer
Image Information	If an image is selected the option opens the Image Information window
Image Information Advanced	If an image is selected the option opens the Image Information Advanced window.
Exit	Exits the Full Resolution Viewer.

Image Menu

Menu Option	**Description**
Apply to All	When selected, all of the images opened in the Full Resolution Viewer will have all actions applied to them from the Image Menu options.
Zoom	Zoom has the following options: • Zooms In - to zoom in to an image • Zoom Out - to zoom out of an image • Fit to Width - to fit the image to the window width (horizontal) • Fit to Height - to fit the image to the height of the window (vertical) • Fit to Window - to fit the image to the entire window (vertical and horizontal) • Actual Size - to show image in its original size

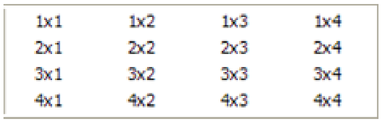
Menu Option	Description
Mouse	Mouse has the following options: • Pan - to pan image by dragging mouse • Magnify - to magnify an image where the mouse is clicked • Zoom - to zoom into an area of the image selected with the mouse • Pointer - to go back to mouse pointer
Rotate	Rotate has the following options: • Right - Rotates the image 90 degrees clockwise • Left - Rotates the image 90 degrees counterclockwise • 180 - Rotates the image 180 degrees • Flip Horozontal - Flips the image horozontally • Flip Verticle - Flips the image vertically
Contrast/Brightness	Contrast/Brightness has the following options: • ‘Contrast +’ - Increases the contrast of an image • ‘Contrast –‘ - Descreases the contrast of an image • ‘Brightness +’ - Increases the brightness of an image • ‘Brightness –‘ - Descreases the brightness of an image
Invert	Reverses the colors of the image.
Reset	Resets the currently selected image to its original display settings including zoom, contrast, window brightness, and orientation
Scroll	Scroll has the following options: • Top Left - scroll to the top left corner of the image • Top Right - scroll to the top right corner of the image • Bottom Left - scroll to the bottom left corner of the image • Bottom Right - scroll to the bottom right corner of the image • Left - scroll to the left • Right - scroll to the right • Up - scroll up • Down - scroll down
Maximize Image	Enable image to fill the entire window.
Previous Image	Displays the previous image.
Next Image	Displays the next image,

View Menu

Menu Option	Description
Viewer Settings	Enables you to set default values for the number of rows and columns, and the maximum number of images to display in the viewer

Menu Option	Description
Refresh	Refreshed the current view in the Full Resolution Viewer.
Realign Images	Realigns the images that are in the Full Resolution Viewer
Lock Image Size	Locks the image size while it is being viewed.
Toolbar	Displays the tool bar.
Show Hints	Displays Hints when the cursor is over a control in Vista Imaging
Pan Window	Opens a Pan Window
GoTo Main Menu	Displays the VistA Imaging Display main window.
Active windows	Displays the active windows currently open in VistA Imaging Display

Layout Menu

Menu Option	Description
Tile All	Images are resized and are positioned in the viewer as tiles.
Default Layout	Restores the default layout.
Next Viewer Page	Displays the next page of images. (This menu option is enabled only when there is more than one page of images.)
Prev Viewer Page	Displays the previous page of images. (This menu option is enabled only when there is more than one page of images.)
 1x1 1x2 1x3 1x4 2x1 2x2 2x3 2x4 3x1 3x2 3x3 3x4 4x1 4x2 4x3 4x4	Enable the user to customize the number and position of images in the window.

Page Menu

This Page Menu is only enabled when a multiple page image is selected.

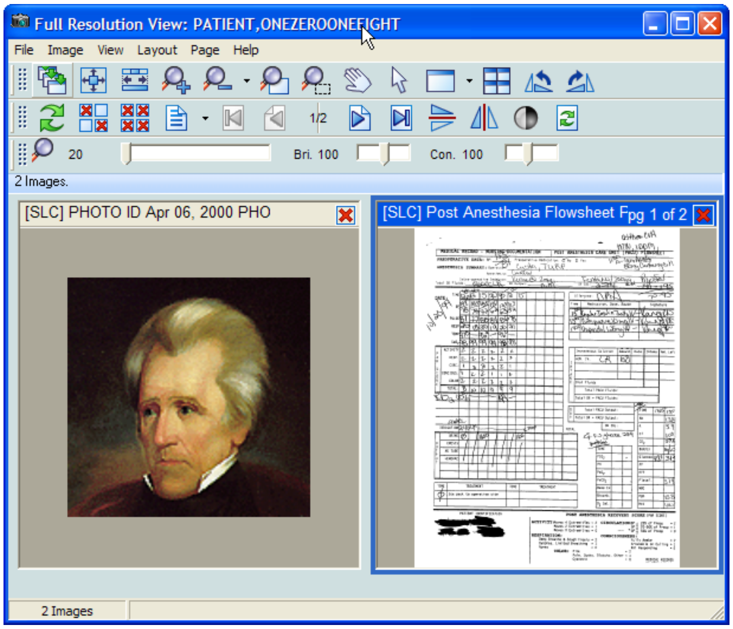
Menu Option	Description
First	Go to the first page of the image.
Previous	Go to the previous page of the image.
Next	Go to the Next page of the image.
Last	Go to the last page of the image.

Help Menu

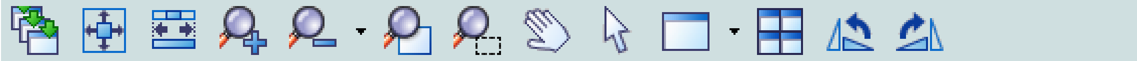
Menu Option	**Description**
Full Resolution Viewer	Displays online help

Tool Bars in the Full Resolution Viewer

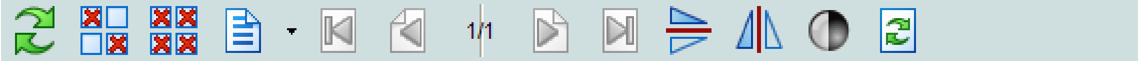
The Full Resolution Viewer has three tool bars, shown in the following example. The tool bars can be dragged and dropped in the viewer to place them side-by-side, two across and one down, or stacked three high. Using the buttons on the three tool bars, you can manipulate the image and navigate around the Full Resolution Viewer.


Full Resolution View: PATIENT,ONEZEROONEEIGHT
File
Image
View
Layout
Page
Help
1/2
20
Bri. 100
Con. 100
2 Images.
[SLC] PHOTO ID Apr 06, 2000 PHO
[SLC] Post Anesthesia Flowsheet Fpg 1 of 2
2 Images

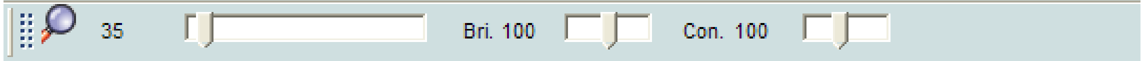
Each tool bar is shown below with a description of each button in the tool bar.

	
Apply Actions to all Images	Applies the actions to all images
Fit Image in Window	Resizes the image to fit in the viewing window
Fit to Width	Fits the image to the width of the viewing window
Zoom In	When selected, the image will magnify each time the button is clicked.
Zoon Out	When selected, the image magnification will reduce each time the button is selected.

Mouse Magnifier	When button is clicked, you use your mouse and scroll on the image and the area on the image is magnified.
Zoom in on Selected Area	You select this option and set a point on the image. The image point selected zooms in or out with the movement of the mouse.
Pan Image with Mouse	With the mouse a user clicks on the image and the image scrolls with the mouse movement.
Mouse Pointer	Changes the mouse back to a pointing device.
Maximize Image	Button enables you to specify the image size and layout. A drop down list appears when selected with options for you to select.
Tile all Images	Images are resized and are positioned in the viewer as tiles.
Rotate Counter Clockwise 90	Rotates the Image 90 degrees counterclockwise each time the button is clicked.
Rotate Clockwise 90	Rotates the Image 90 degrees clockwise each time the button is clicked.



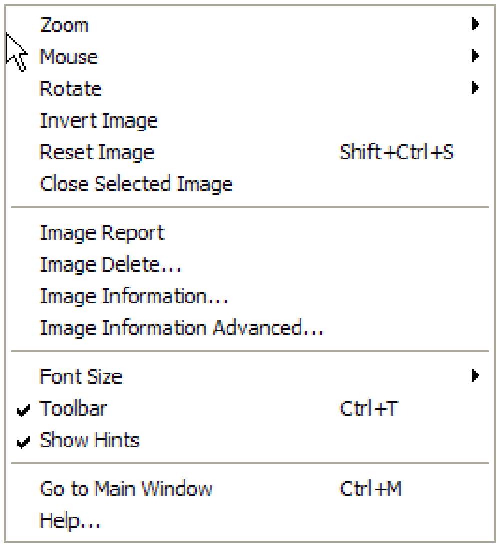
Refresh Images	Refreshes the images.
Remove Selected Image(s)(Not a Delete)	Removes only the selected images from the Full Resolution Viewer pane.
Remove All Images (Not a Delete)	Removes all of the images from Full Resolution Viewer pane.
Image Report + Print Copy Menu	In the drop down menu there are three options to: Copy Image, Print Image, and Image Report
Goto First Page	Go to the first page of a multi page image.
Goto Previous Page	Go to the previous page of a multi page image.
Goto Next Page	Go to the next page of a multi page image.
GoTo Last Page	Go to the last page of a multi page image.

Flip Vertical	Flips the image vertical
Flip Horizontal	Flips the image horizontal
Invert Image	Reverses the colors of the image.
Reset Image	Resets the currently selected image to its original display settings including zoom, contrast, window brightness, and orientation
 35 Bri. 100 Con. 100	
	Magnification: Use the scroll bar to increase or decrease magnification.
	Brightness: Use the scroll bar to increase or decrease brightness.
	Contrast: Use the scroll bar to increase or decrease contrast.

Popup Menu in the Full Resolution Viewer

Right-click an image in the Full Resolution Viewer displays the following popup menu.

Note: The commands in first group of the menu are a subset of the tools in the tool bar.


Zoom
Mouse
Rotate
Invert Image
Reset Image Shift+Ctrl+S
Close Selected Image
Image Report
Image Delete...
Image Information...
Image Information Advanced...
Font Size
✓ Toolbar Ctrl+T
✓ Show Hints
Go to Main Window Ctrl+M
Help...

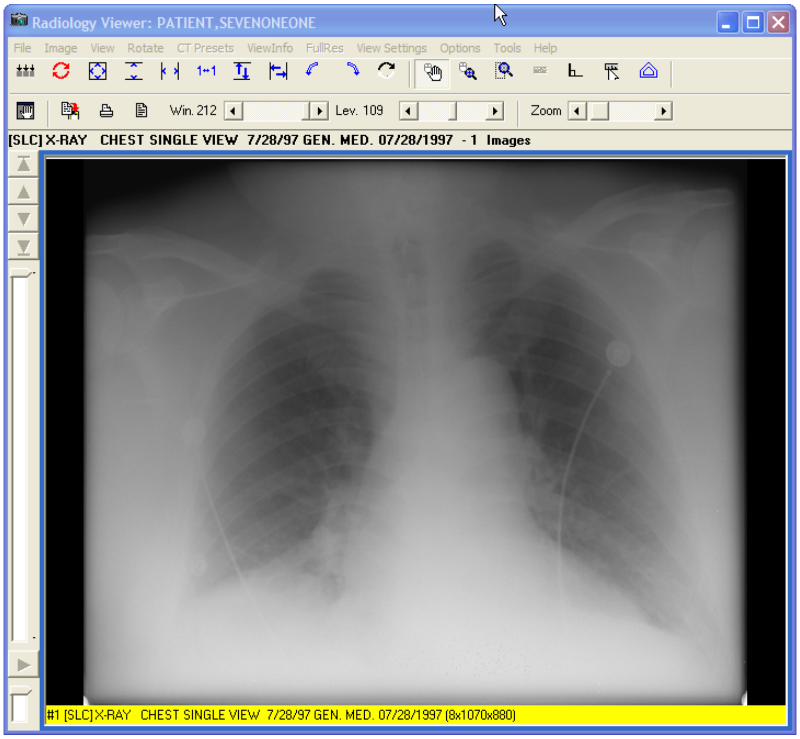
Menu Option	Description
Image Report	**Opens the Image Report for the selected image.**

Menu Option	Description
Image Delete	Deletes an image only if you hold the proper security keys. See *Appendix C: Deleting Images*
Image Information	Opens the *Image Information Window*
Image Information Advanced	Opens the *Image Information/Properties Window*
Font Size	Selectable font sizes from 6pt to 12pt.
Tool bar	Displays or hides the tool bar in the Abstracts window.
Show Hints	Activates or deactivates the Hints.
Go to Main Window	Displays the *VistA Imaging Display Main Window*.
Help	Displays online help

Radiology Viewer

Clicking a DICOM or TGA image from the Abstracts window, Image List window, or the Group Abstracts window, opens the image in the Radiology Viewer. The Radiology Viewer opens the images in a single view or group view.

Single View

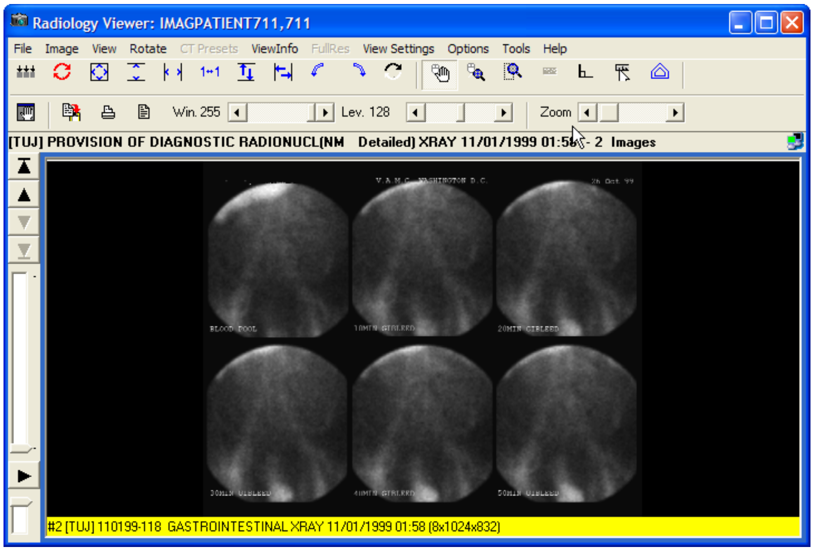

Radiology Viewer: PATIENT,SEVENONEONE
File
Image
View
Rotate
CT Presets
ViewInfo
FullRes
View Settings
Options
Tools
Help
1↔1
Win. 212
Lev. 109
Zoom

[SLC] X-RAY CHEST SINGLE VIEW 7/28/97 GEN. MED. 07/28/1997 - 1 Images

#1 [SLC]X-RAY CHEST SINGLE VIEW 7/28/97 GEN. MED. 07/28/1997 (8x1070x880)

If you select a single radiology image the viewer will open the image as a single view.

Group View



[TUJ] PROVISION OF DIAGNOSTIC RADIONUCL(NM Detailed) XRAY 11/01/1999 01:5 - 2 Images

#2 [TUJ] 110199-118 GASTROINTESTINAL XRAY 11/01/1999 01:58 (8x1024x832)

Selecting a group of DICOM images from the Group Abstracts window or from the Image List window opens the DICOM images in the Radiology Viewer but only one image at a time is displayed. Using the tools on the viewer the user is able to scroll through the images of the study.

You can view radiology studies using several views. One view is the Layout View which you can specify a 1x1, 2x1 or a 3x2, or a 4x3 view. Using the scroll wheel of your mouse you can move quickly between images in the stack or layout views.

If you double click an image in the layout view the image will appear in the stack view at full size. Additionally, if you double click the stack view will switch the study back to the layout view.

Menu Bar in Radiology Viewer

File Menu

Menu Option	**Description**
Copy	Copies the image to the Clipboard. You must provide your electronic signature and the reason for copying the image.
Print	Prints the image. You must provide your electronic signature and the reason for printing the image.
Report	Displays the report associated with the image
Exit	Closes the Radiology Viewer

Image Menu

Menu Option	Description
Apply to All	Applies actions to all image
Zoom	Zoom has the following options: • Zooms In –to zoom in to an image • Zoom Out –to zoom out of an image • Fit to Width –to fit the image to the window width (horizontal) • Fit to Height - to fit the image to the height of the window (vertical) • Fit to Window –to fit the image to the entire window (vertical and horizontal) • Actual Size –to show image in its original size
Mouse	Mouse has the following options: • Pan -to pan image by dragging mouse • Magnify -to magnify an image where the mouse is clicked • Zoom -to zoom into an area of the image selected with the mouse • Ruler – Ruler Measurement • Angle Tool – Angle measurement tool • Ruler/Angle Pointer – Measurement pointer • Auto Window/Level – Window/Level tool
Window/Level	Window/Level has the following options: • 'Window +' - Increases the contrast of an image • 'Window –' - Descreases the contrast of an image • 'Level +' - Increases the brightness of an image • 'Level –' - Descreases the brightness of an image
Invert (Reverse)	Inverts the colors of the image
Reset Image	Resets the currently selected image to its original display settings including zoom, window/level, and orientation
Reset All	Resets all of the images to their original display settings including zoom, window/level and orientation
Scroll	Scroll has the following options: • Top Left - scroll to the top left corner of the image • Top Right - scroll to the top right corner of the image • Bottom Left - scroll to the bottom left corner of the image • Bottom Right - scroll to the bottom right corner of the image • Left - scroll to the left • Right - scroll to the right • Up - scroll up • Down - scroll down

Menu Option	**Description**
Maximize Image	Maximizes the current image (or if the current view is stack view, this changes the view to layout view). This option is not available if the current image is in the second stack.
Stack Cine	Contains options for using the stack cine. This option is available only if the current view is a stack view. Stack Cine has the following options: • Start - Start the stack cine loop. • Stop - Stop the stack cine loop. • Speed Up - Speed up the stack cine loop. • Slow Down - Slow down the stack cine loop • Range Start - Set the start position for the stack cine loop. • Range End - Set the end position for the stack cine loop. • Range Clear - Clear the image for the stack cine loop.
First Image	Moves to the first image in the study
Previous Image	Moves to the first image in the study
Next Image	Moves to the next image in the study
Last Image	Moves to the last image in the study
Cache Selected Study	Caches the currently selected study in the background to the workstation, enabling you to continue working while the images are brought to the workstation.

View Menu

Menu Option	**Description**
Pan Window	A pane will open in the upper left corner of the display. This is the Pan Window box and it displays a full sized version of the image with the zoomed portion highlighted. The scroll bar at the bottom of the box can be used to adjust the amount of magnification. Move the scroll bar: • to the right will increase magnification. • to the left will decrease magnification. The mouse can be dragged around the image to move the highlighted area.
Go To Main Window	Changes the focus to the VistA Imaging Display main window
Active windows	Displays the active windows currently open in VistA Imaging Display

Rotate Menu

Menu Option	**Description**
Rotate Clockwise 90	Rotates the currently selected image clockwise (to the right) 90 degrees. If “Apply-All” is selected, then all images will rotate.
Rotate Minus 90	Rotates the currently selected image counter clockwise (to the left) 90 degrees. If “Apply-All” is selected, then all images will rotate.
Rotate 180	Rotates the currently selected image 180 degrees. If “Apply-All” is selected, then all images will rotate.
Flip Horizontal	Flips the currently selected image horizontally. If “Apply-All” is selected, then all images will flip horizontally.
Flip Vertical	Flips the currently selected image vertically. If “Apply-All” is selected, then all images will flip vertically.

CT Presets Menu

Menu Option	**Description**
Abdomen	Sets the currently selected window/level values such that they can view the abdomen. If “Apply-All” is selected, then all images will change to the same window/level value.
Bone	Sets the currently selected window/level values such that they can view bone. If “Apply-All” is selected, then all images will change to the same window/level value.
Disk	Sets the currently selected window/level values such that they can view disk. If “Apply-All” is selected, then all images will change to the same window/level value.
Head	Sets the currently selected window/level values such that they can view the head. If “Apply-All” is selected, then all images will change to the same window/level value.
Lung	Sets the currently selected window/level values such that they can view the lungs. If “Apply-All” is selected, then all images will change to the same window/level value.
Mediastinum	Sets the currently selected window/level values such that they can view the mediastinum. If “Apply-All” is selected, then all images will change to the same window/level value.

View Info Menu

Menu Option	**Description**
Image Info	Displays information about the image, including the patient name, ID, number of pages in the image, the page dimensions, bit depth, and file format information.
DICOM Header	Displays the DICOM Header associated with the image (if it is available).
Radiology Image Info	Displays information from the header of the image including the modality, series and image numbers.
Image Information Advanced	Displays the Image Information/properties window

FullRes Menu

Menu Option	**Description**
View	If the original full quality image is available for the down-sampled image being displayed the FullRes menu option is available. When you click **View** from the menu option the original image in full quality is requested, cached on the workstation and then displayed.

Note:
VistA Imaging stores images from the DICOM Gateway. In many cases a down-sampled version of the image is stored to make it load faster and the original image is saved in full quality. This down-sampled image is lower in quality than the original and is used by Clinical Display (not VistARad).

Most radiology images have a down-sampled image. CT images usually do NOT have a down-sampled and the full quality image is stored. The decision to create a down-sampled image is configurable on the DICOM Gateway and is based on the modality.

When the Radiology Viewer loads an image, it determines if it has loaded the full quality image or a down-sampled/compressed image. If the image is down-sampled/compressed, a message below the image and in the title bar indicates the image is not full quality and the menu option is available. If the image displayed is full quality, the warnings are hidden and the menu option is disabled.   When a user selects to view the full resolution image, the client requests the image. This might take a few minutes (depending on where it is coming from). Once the image is retrieved, it is displayed in the viewer (and cached on the workstation). If there is an error retrieving the image, the error is displayed.

View Settings Menu

Menu Option	Description
1x1 Stack	Puts the viewer into a single image stack mode.
2x1 Stack	Puts the viewer into a dual stack mode where two images from different (or the same) studies can be viewed and compared.
3x2 Layout	Puts the viewer into a layout mode where 6 images are displayed at once.
4x3 Layout	Puts the viewer into a layout mode where 12 images are displayed at once.

Options Menu

Menu Option	Description
Stack View	Stack View has the following options: • Page Together - When selected, two stack views will page together. This does not guarantee they will always be on the same image number, but as one stack changes images, the other stack will follow. • Page With Different Settings - When selected, each stack will page with the settings held from the previous image in that stack. • Page With Same Settings - When selected, each stack will page with the settings from the stack that changed images. If the left stack changes images, both stacks will change images and then set their view settings (window/level, zoom, etc.) to the same as the left stack. • Page With Image Settings - When selected, each image will automatically set itself based on the contents of the image. It does not matter what the previous image had set.
Layout View	Layout View has the following options: • Use Selected Window Settings - When selected and the user changes images; the next image loaded will use the same settings as the previous image. • Use Individual Settings – When selected, each image will automatically set itself based on the contents of the image. It does not matter what the previous image had.
Image Settings	Image Settings has the following options: • Use Device Window Level if Available - When selected, the image will be automatically window leveled using values specified in the DICOM header (if available). • Use Histogram for Window Level - When selected the image will be window leveled using the contents of the image.

Menu Option	Description
Mouse Magnify Shape	You have the option to use a Magnifying glass, which will magnify the selected portion directly on the image where the cursor is placed, as in the picture below. Mouse Magnify Shape has the following options: • Circle • Rectangle
Labels On	If selected, then the orientation labels are displayed on the image (always on the middle left side of the image).

Tools Menu

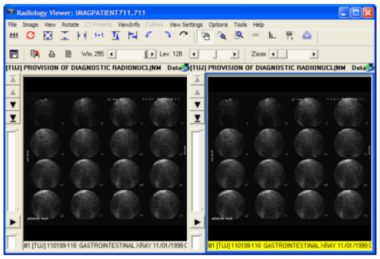
Menu Option	Description
Cine Tool	Displays the cine tool dialog to allow moving between frames in a single image.
Cine Tool Focus	Sets the focus to the cine tool dialog.
Ruler/Angle Tool	Ruler/Angle Tool has the following options: • Enable Ruler - Turns on the ruler tool (only enabled if the image contains the necessary information to make accurate measurements). • Enable Angle Tool - Turns on the angle measurement tool. • Ruler/Protractor Pointer - Changes the current tool to the pointer for measurements. This allows the user to move and modify a measurement mark. • Delete Selected Measurements - Deletes any measurements that the user has selected. • Clear All Measurements - Clears all measurements from the image. • Measurement Options - Opens a dialog to set the user preferences for measurements including line width, line color and measurement units. • Measurement Properties - Displays properties for the currently selected annotation.
Pixel Values	When selected, if you select on an image, the hint will change to the value of the pixel at the location clicked. If not selected, then the hint will contain series and study description information.

Help Menu

Menu Option	Description
Radiology Viewer	Displays help contents for the Radiology Viewer.

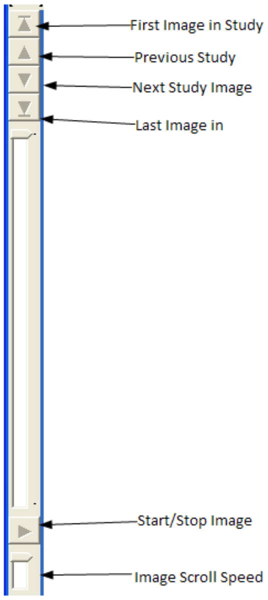
Popup Menu in the Group Abstracts Window

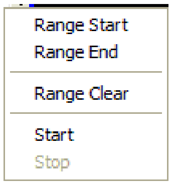
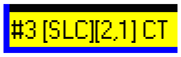
You can right click a DICOM image and open it in a second Radiology window to compare it with a study image that is already open.

Open Image in 2nd Radiology Window	 Radiology Viewer: IMAGPATIENT711,711 File Image View Rotate CT Presets ViewInfo FullRes View Settings Options Tools Help The image is opened in a side-by-side view next to the first DICOM image.

Tool Bar in the Stack View Slide

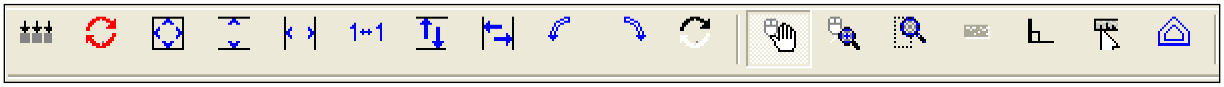
The Stack View Slide tool bar is enabled when a study of more than one image is selected and shown in the stack view. This tool enables you to scroll through the stack and adjust the playing speed.

 First Image in Study Previous Study Next Study Image Last Image in Start/Stop Image Image Scroll Speed	To the left of the study are buttons that allow navigating through the images in the study. Click the **First Image in Study button** ⤒ button to go to the first image in the study. Click the **List Images In** button ⤓ button to go to the last image in the study. Click **Previous Study button** the ▲ button to go to the previous image in the study. Click the **Next Study Image** button ▼ button to go to the next image in the study. Below the buttons is a study slider that shows the position of the image in the current study. The user can move the slider in order to view another image The button below the slider allows the user to play the images in the study (in a loop).When the user clicks the play button it will change to a stop button to allow the user to stop the scrolling of images. Below the button is another slider that controls the speed of the loop.

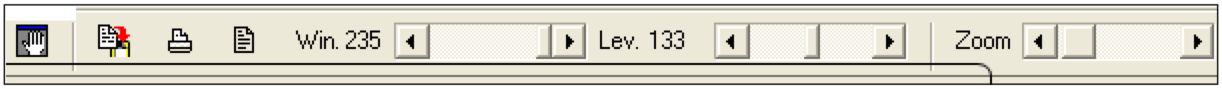
 Range Start Range End Range Clear Start Stop	If you right mouse select the study slider a menu opens which allows you to adjust the range parameters. Range Start: Set the range of the loop to start at the currently selected image. Range End: Set the range of the loop to end at the currently selected image. Range Clear: Clear the range of images to scroll. Start: Start the looping (same as clicking the play button). Stop: Stop the looping (same as clicking the stop button).
 #3 [SLC][2,1] CT	This label shows: the current image in the study (on the left), the description of the image and bit depth, width and height of the image

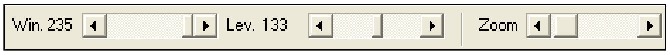
Tool Bar in the Radiology Viewer

The Radiology Viewer has two tool bars used to manipulate the images to study them.



Apply Actions to All Images	Applies selected actions to all visible images
Reset Image to original setting.	Resets the currently selected image to its original display settings including zoom, window/level, and orientation
Fit Image in Window	Resizes image to fit to the window size
Fit the Image Height	Resizes image to fit to the height of the window size
Fit the Image Width.	Resizes image to fit to the width of the window size
Actual Size	Resets the image to the actual size
Flip Vertical	Flips the image vertically
Flip Horizontal	Flips the image horizontally
Rotate Left (counter -clockwise)	Rotates the image counter clockwise

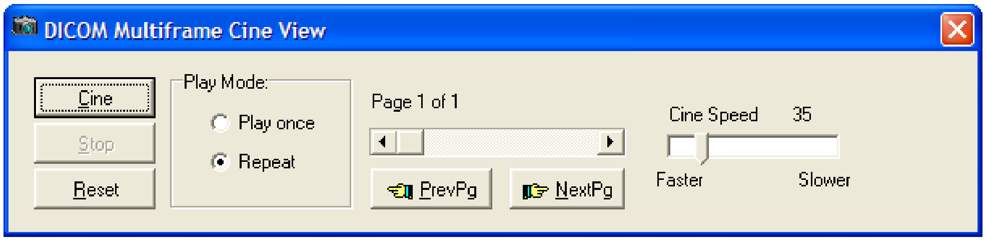
Rotate right (clockwise)	Rotates the image clockwise
Invert Image	Inverts the image
Pan Image with mouse	Positions the cursor in the middle of this window. Select and hold down the left mouse button. The cursor will appear as a "hand". When the cursor ("hand") is moved up and down the middle of the window, the document will move upwards and downwards. Using this technique, you will be able to view all portions of the document image. Close the Document Image Window by selecting the "X" in the top right hand corner.
Mouse Magnifier	Mouse pointer magnifier
Zoom in on Selected Area	Zoom button
Ruler	Ruler utility
Use Protractor	Protractor button
Use Ruler/Protractor Pointer	Pointer to move ruler/protractor marks
Auto Window/Level	Auto Window Level control
	
Open a Pan Window	Opens a Pan Window
Copy to clipboard	Copies the image to a clipboard
Print Image	Prints the image
Image Report	Opens the Image Report for the selected image.

 Win. 235 Lev. 133 Zoom	
Win -Change Window Value	Adjusts the brightness and contrast at the window level
Lev- Change Level Value	Adjusts the brightness and contrast at the image level
Zoom	Increases or decreases the zoom

DICOM Multi-frame Cine Viewer

The DICOM Multi-frame Cine Viewer is a type of Radiology Viewer and is used to display multi-frame images that are DICOM and TGA images only. When they are selected in the Radiology Viewer, the DICOM Multiframe Cine View window automatically opens.

Note: You can also open this dialog box by choosing Tools | Cine Tool from the Radiology Viewer menu.



Play Mode:
○ Play once
● Repeat

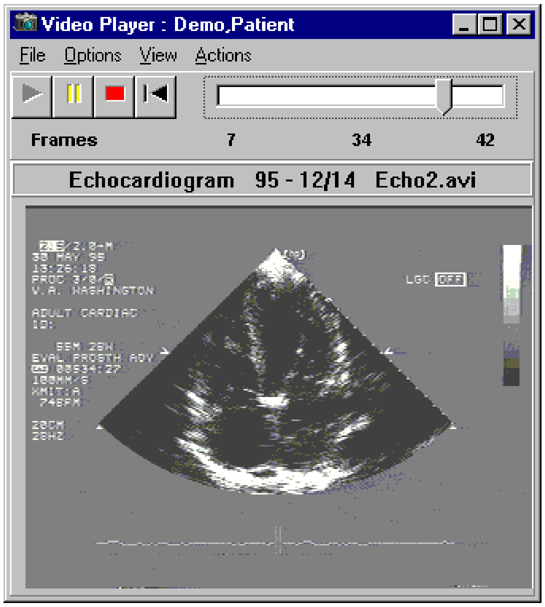
Page 1 of 1

Cine Speed 35

Field or Button	Description
Cine	Plays the study from the current page and speed setting.
Stop	Stops the playing of the study.
Reset	Returns the study to the first page.
Play Mode (Play once)	Plays the study once.
Play Mode (Repeat)	Repeats the playing of the study as if in a play loop.
Page slider	Moving the slider left to right and back will move through the pages of the study.
Cine Speed slider	Controls the playing speed, the slider is moved to left to right to adjust the speed.
Previous Page	Selecting this button moved the slider and displays the previous page of the study.
Next Page	Selecting this button moved the slider and displays the next page of the study.

Video Player

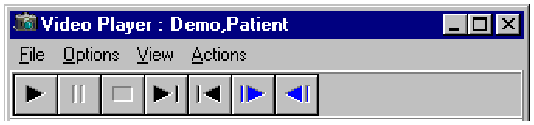
Motion video files can be saved as part of the patient record using VistA Imaging. When a selected patient image is a motion video clip, the Video Player window is opened. User preferences can also be set to view video using an alternate viewer.


Video Player : Demo,Patient
File
Options
View
Actions
Frames
7
34
42
Echocardiogram 95 - 12/14 Echo2.avi

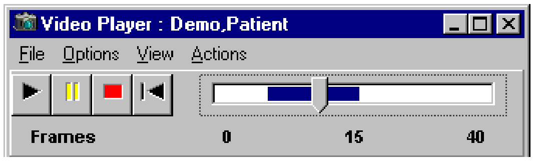
- Use the tool bar buttons to play, pause, stop and rewind.
- Use the slider bar to browse the video clip, frame by frame.
- "Start" and "end" points can be set.
- Select "video loop" mode to continuously play all or part of the file.

The Video Play can be displayed in two ways depending on the user preferences that you have selected:

- Without the progress bar and sliders, as shown


Video Player : Demo,Patient
File
Options
View
Actions

- With the progress bar and sliders, as shown


Video Player : Demo,Patient
File
Options
View
Actions
Frames
0
15
40

Menu Bar in the Video Player

File Menu

Menu Option	**Description**
Image Report	**Opens the Image Report for the selected image.**
Exit	Will close the Video Player window.

Options Menu

Menu Option	**Description**
Show Progress bar	Show or hide the progress bar
Increment in Seconds	Changes the progress bar to increment by seconds.
Increment in Frames	Changes the progress bar to increment by frames.
Video Loop	Replays the video in a continuous loop.
Stay on Top	Keeps the Video Player open on top of the active windows
Speed	Option is enabled if the progress bar is shown. • Slow • Medium and • Fast

View Menu

Menu Option	**Description**
Zoom Out	Decreases the size of the window.
Zoom In	Increases the size of the window.
Default	Resets the size of the display to the default (original). **Note**: the default size is the best size for picture quality.
Start Set Point	Sets the Start Point at different places in the video will select a region of the video clip. When a region is selected, only that part of the video clip will be shown, when you 'play' the video.
Set End Point	Sets the End Point at different places in the video will select a region of the video clip. When a region is selected, only that part of the video clip will be shown, when you 'play' the video.
Clear Start/End	Clears the selected region is played.

Actions Menu

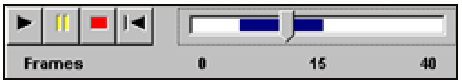
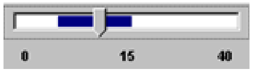
Menu Option	**Description**
Play	Will start the video in motion from the current position of the slider bar.
Stop	Will stop the video.
Rewind	Rewind the video clip to the beginning.

Help Menu

Menu Option	**Description**
Video Player window	Displays the online Video Player help.

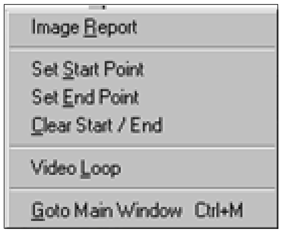
Tool Bar in the Video Player

Note: The user preference for showing the progress bar is selected and shown in this view of the tool bar.

	
▶ Play	Starts the video in motion from the current position of the slider bar.
⏸ Pause	Pauses the video
■ Stop	**S**tops the video
⏮ Rewind	**R**ewinds the video clip to the beginning
 Progress Bar	Shows the video length and current position When the Progress Bar is active, the video might seem a little "choppy" or "hesitant"; this is because extra processing is needed to synchronize the control with the current frame of the video clip. Use the Progress Bar to browse the video clip, frame by frame
Fast Forward	Move forward in the video. This is only available if the progress bas and sliders are not selected.
⏵ One Frame Forward	Move one frame forward. This is only available if the progress bas and sliders are not selected.
⏴ One Frame Backward	Move one frame back. This is only available if the progress bas and sliders are not selected.

Popup Menu in the Video Player

Right-clicking in the Video Player opens a popup menu providing shortcuts to options and actions you can perform.

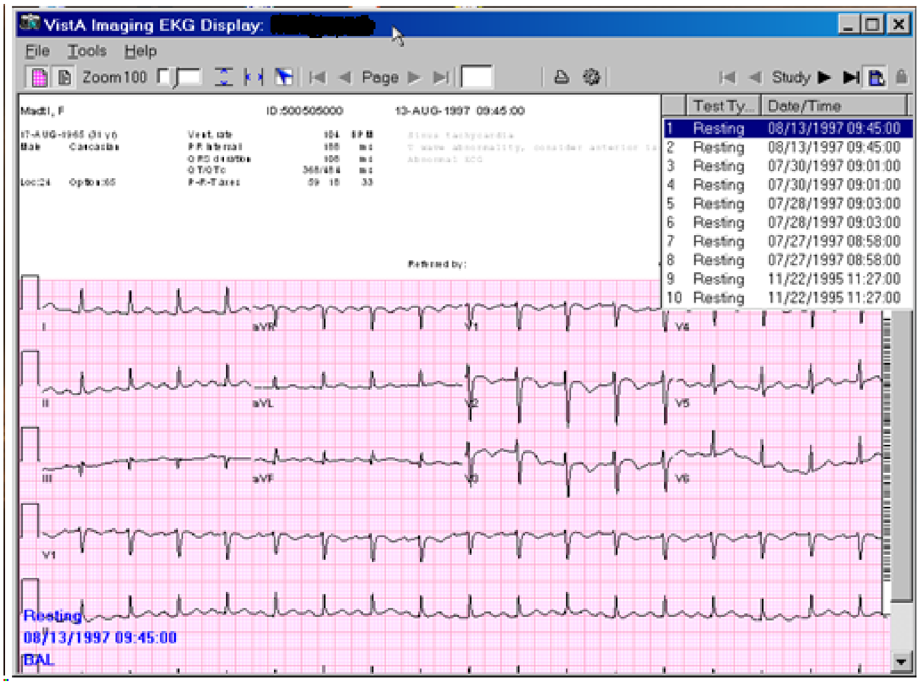


Menu Option	**Description**
Image Report	Opens the Image Report for the selected image.
Set Start Point	Sets the start point at a location to begin the video clip. When you set the start point, the video begins at that point when you click Play.
Set End Point	Sets the end point at a location to stop the video clip. When you set the end point, the video runs and then stops at that point when you click Play.
Clear Start/End	Clears the selected region.
Video Loop	Sets the continuous play of the whole video clip, or the selected portion.
Goto Main Menu	Changes the application focus to the Main Imaging Display window

MUSE EKG

The VistA Imaging System can interface with the GE/Marquette MUSE EKG Management system. When an Imaging/MUSE interface is active, EKGs are viewable from any VistA Imaging workstation using the EKG Display window. The VistA Imaging Display application can also be configured to show the EKGs for a patient automatically whenever a patient is selected. This is done through the Options | User Preferences menu.

1. From the Image List window, choose **View | MUSE EKG Window** from the menu bar, or from the VistA Imaging Display main window, click the **Open the MUSE EKG viewing window** button to open the MUSE EKG window.



	Test Ty...	Date/Time
1	Resting	08/13/1997 09:45:00
2	Resting	08/13/1997 09:45:00
3	Resting	07/30/1997 09:01:00
4	Resting	07/30/1997 09:01:00
5	Resting	07/28/1997 09:03:00
6	Resting	07/28/1997 09:03:00
7	Resting	07/27/1997 08:58:00
8	Resting	07/27/1997 08:58:00
9	Resting	11/22/1995 11:27:00
10	Resting	11/22/1995 11:27:00

Menu Bar in the MUSE EKG Viewer

File Menu

Menu Option	**Description**
Refresh	The EKG Display client remembers if a MUSE server is unreachable and does not attempt to connect to it again during this session. This prevents a 30 second timeout wait.
Preferences	Select a setting to print with solid or dotted lines.
Print	Prints the selected study
Close	Closes the application

Tools Menu

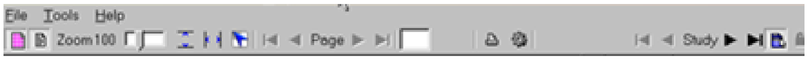
Menu Option	**Description**
Grid	The grid provides an easy way to measure and compare portions of the study. Studies can be displayed both with the grid on and off. To toggle the grid, select the Display/Hide Study.
Text Overlay Off	Prevents the overlay of text to eliminate confusion over which study is which when viewing multiple studies concurrently. Studies can have an overlay of text that contains differentiating data that is always in the window.
Lock Scrolling	Locks multiple tests together. Scrolling one of the studies will also to scroll the others by the same amount.

Menu Option	**Description**
Fit Height	Makes the first page of the studies as tall as the window area of the study display. The image will not become smaller than half the width of the window (Zoom of 50).
Fit Width	Makes the studies as wide as the window. The image will not become smaller than half the width of the window (Zoom of 50).
Reset To Top Left	Moves all studies to the top left corner if they have been scrolled away from that position.
First Page	Takes you to the top of the first page in the study.
Previous Page	Takes you to the page before the one that is currently visible.
Next Page	Takes you to the next page after the one that is currently visible.
Last Page	Takes you to the last page of the study.
First Study	Takes you to the top of the first study in the list.
Previous Study	Takes you to the study after the one you are currently viewing.
Next Study	Takes you to the study after the one you are currently viewing.
Last Study	Takes you to the last study in the list.
Go to Main Form	Displays the VistA Imaging Display main window
Active Forms	Displays a list of active windows. Select one of the windows from the list to bring the window to the front.

Help Menu

Menu Option	**Description**
EKG Display	Displays the online help
About	Displays the About window, which specifies the software name, current Patch number, current version and build, past versions installed, etc.

Tool Bar in the MUSE EKG Viewer

	
▦ Display/Hide Grid	Displays or Hides the grid
🗎 Display/Hide Study Text Overlay	Displays or Hides study text overlay

Zoom 100 Zoom	Zooms in or out using the track bar.
Fit the Image Height	Makes the first page of the studies as tall as the window area of the study display.
Fit Image Width	Makes the studies as wide as the window.
Reset to the Top Left Corner	Moves all studies to the top left corner if they have been scrolled away from that position.
⏮ First Page	Takes you to the top of the first page in the study. Some studies contain multiple pages. There are several controls to go to certain pages and they are enabled only if only one study is visible and that study has multiple pages.
◀ Previous Page	Takes you to the page before the one that is currently visible.
▶ Next Page	Takes you to the next page after the one that is currently visible.
⏭ Last Page	Takes you to the last page of the study.
1 of 12 Current Page indicator	As you use the paging controls or the vertical scroll bar, the Current page text box updates to show you where you are within the study. Changing that text box to another number moves the page to the page specified.
🖨 Print	Prints all pages of all studies displayed. If the grid is on, it also prints the grid.
⚙ Preferences	Enables EKG Display Options to print grid with solid or dotted lines.
⏮ First Study	Takes you to the top of the first study in the list. Using the study controls, you can move through the list of studies without opening the studies drop-down list.
◀ Previous Study	Takes you to the study before the one you are currently viewing.
▶ Next Study button	Takes you to the study after the one you are currently viewing.
⏭ Last Study button	Takes you to the last study in the list.
Selecting Studies to Display	If the study drop-down is not open, click the Select Studies to Display button. Click the study you would like to view. If you would like to view more than one study simultaneously, hold CTRL and select additional studies. To view multiple studies that are in sequential order, select the first one, hold SHIFT, and select the bottom one. To close the study drop-down list, click the Select Studies to Display button.

Printing	Prints all pages of all studies displayed. If the grid is on, it also prints the grid.
Preferences	EKG Display Options to print the grid with solid or dotted lines.
Lock Scrolling	Locks multiple tests together.

Note: Studies may be sorted by selecting the head of the column in the study dropdown. Selecting the column again will resort that column in reverse order.

Note: EKGs that have been automatically interpreted by the MUSE server but have not been confirmed by a cardiologist have an UNCONFIRMED overlay at the top of the EKG report.

The study list also contains a column indicating whether an EKG has been confirmed or not. In addition, the overlay text indicates when an EKG is unconfirmed.

Printing and Copying Images

Users who view patient images can also print and copy the images.

Guidelines

- The print and copy functions can be accessed from the Image List window or from any of the viewers in the application.

  Note: The MUSE EKG viewer does not have image copy functionality.

- Usually, a Reason code and an electronic signature are needed to print or copy an image. Users who have been assigned the MAG ROI key will need to enter a Reason code, but do not need to enter an electronic signature.

- An electronic signature is required only once for each imaging session. An imaging session starts at sign in and ends when you sign off, including when the application shuts down.

- Accepting the Physician Agreement for downloading images is required only once for each imaging session.

Printing a Single Image

1. Select a patient’s image.

   The appropriate viewer may open depending on User Preference setting.

2. If the viewer that opens is the:

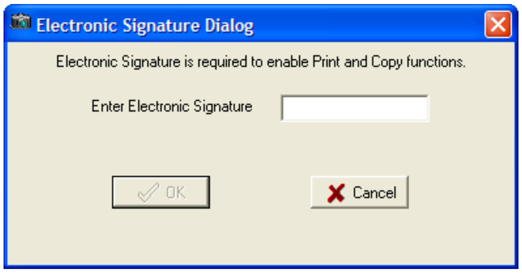
   - Full Resolution Viewer, click the **Image Report + Print Copy Menu** button and **Print Image** from the drop down menu or select **Print Image** from the File menu. Radiology Viewer, click the **Print Image** button from the tool bar or select **Print** from the File menu.

   - MUSE EGK viewer, click the **Print** button.

   - Image viewer in the Image List window, select **File | Image Print** from the menu bar.

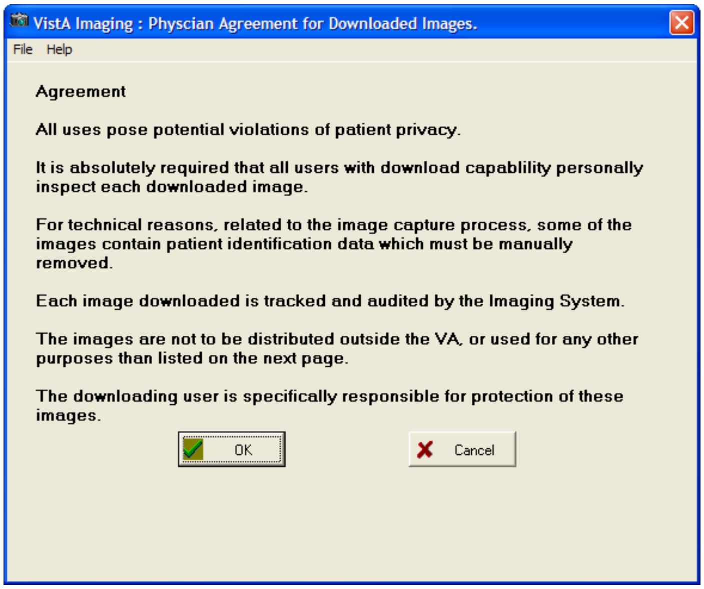
3. If this is the first time printing an image in this session, you will be prompted for an Electronic Signature. Enter your code and click **OK**.

   Note: If you hold the MAG ROI security key , you will not be prompted for an electronic signature for printing or copying. The MAG ROI key is assigned to HIMS ROI Officers. You can continue to step 4.


Electronic Signature Dialog
Enter Electronic Signature
OK
Cancel

Electronic Signature is required to enable Print and Copy functions.

4. Read and accept the Physician Agreement for Downloading Images by clicking **OK**. Clicking Cancel stops the print request.


VistA Imaging : Physcian Agreement for Downloaded Images.
File
Help
OK
Cancel

Agreement

All uses pose potential violations of patient privacy.

It is absolutely required that all users with download capablility personally inspect each downloaded image.

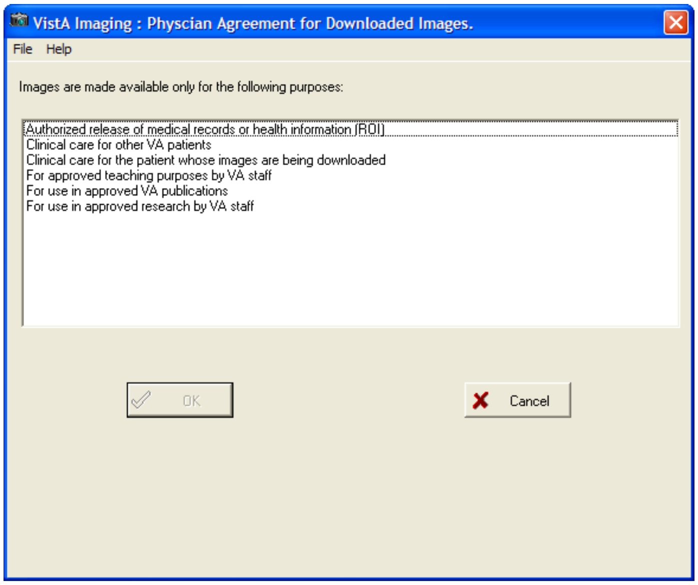
For technical reasons, related to the image capture process, some of the images contain patient identification data which must be manually removed.

Each image downloaded is tracked and audited by the Imaging System.

The images are not to be distributed outside the VA, or used for any other purposes than listed on the next page.

The downloading user is specifically responsible for protection of these images.

5. Select a purpose for printing the image from the list provided. After a purpose is selected, the OK button is enabled.

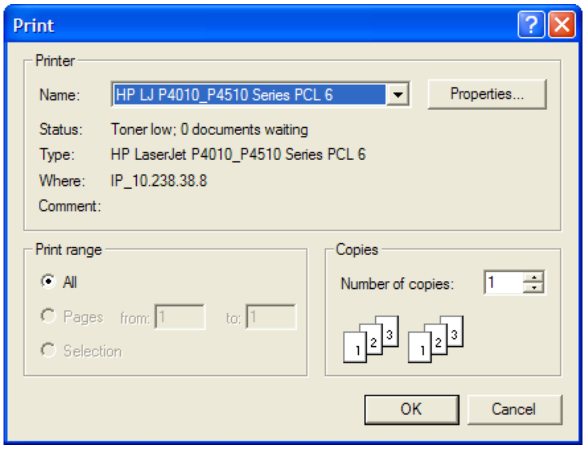

VistA Imaging : Physcian Agreement for Downloaded Images.
File
Help
OK
Cancel

Images are made available only for the following purposes:

Authorized release of medical records or health information (ROI)
Clinical care for other VA patients
Clinical care for the patient whose images are being downloaded
For approved teaching purposes by VA staff
For use in approved VA publications
For use in approved research by VA staff

6. To continue and print the image, click **OK**.

7. Verify the printer selection and click **OK**.


Print
Printer
Properties...
Print range
Copies
OK
Cancel

Name: HP LJ P4010_P4510 Series PCL 6

Status: Toner low; 0 documents waiting

Type: HP LaserJet P4010_P4510 Series PCL 6

Where: IP_10.238.38.8

Comment:

● All

○ Pages from: 1 to: 1

○ Selection

Number of copies: 1

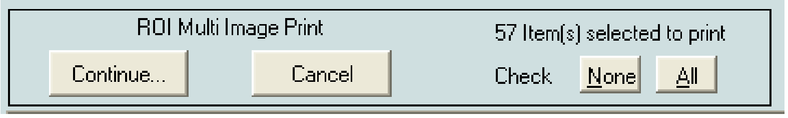
Printing Multiple Images

Users who have MAG ROI key assigned to them can print multiple images at a time. You can print a selected few images or all available images for a patient.

Selecting Images to Print

1. Select a patient.

2. Click **Utilities| ROI Print Options | Choose Images to Print**. All images in the study are selected by default and the image count is displayed (as shown below). The following section will appear above the image list in the Image List window.

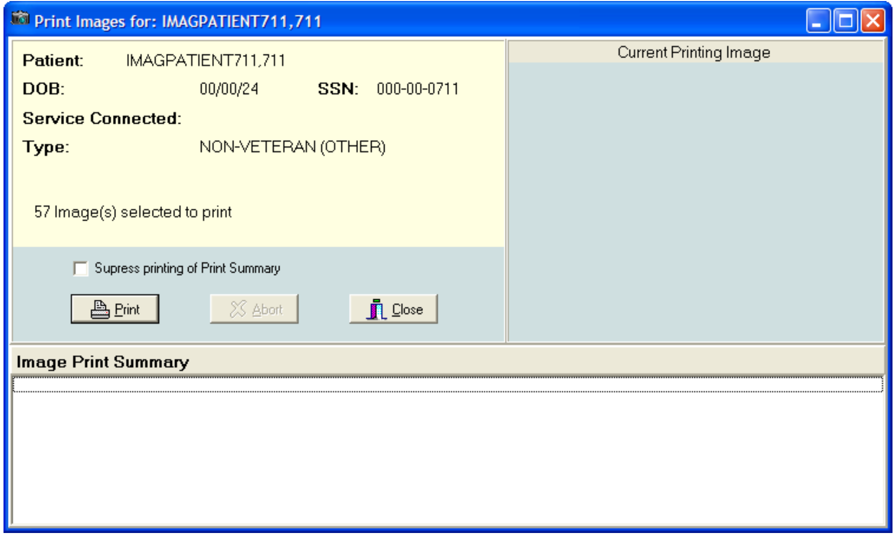

ROI Multi Image Print
Continue...
Cancel
Check
None
All

57 Item(s) selected to print

3. Select images to print using one of these options.

    - If you intend to print most of the images on the list, unselect the images that you wish to exclude from the print queue by clicking each image in the Image List.
    - If you only intend to print a few images, click **None** in the ROI Multi Image Print section in the image list window (screen shot shown above), then check the images you wish to print.

4. Once the images you wish to print are selected, click **Continue**. The "Print Images for: " window opens (as shown below).



Print Images for: IMAGPATIENT711,711

Patient: IMAGPATIENT711,711
DOB: 00/00/24 **SSN:** 000-00-0711
Service Connected:
Type: NON-VETERAN (OTHER)

57 Image(s) selected to print

☐ Supress printing of Print Summary

5. Select or clear the **Suppress printing of Print Summary** box as desired. A print summary page is printed by default when multiple images are printed. If you do not want to print the summary page, check the checkbox labeled "suppress printing of Print Summary" in the "Print Images for:" window. The print summary page contains a summary of the print job.

6. Verify that the number of images selected matches the number selected to print as displayed in the "Print Images for: " window.

7. Click **Print** and Accept the patient privacy agreement by clicking OK. If you click cancel on the agreement, the print will be cancelled.

Printing all images for a patient

1. Select **Utilities | ROI Print Options| Print all listed images…** "Print Images for:" window opens.

2. A print summary page is printed by default when multiple images are printed. If you do not want to print the summary page, check the checkbox labeled "suppress printing of Print Summary" in the "Print Images for:" window. The print summary page contains a summary of the print job.

3. Verify that the image count matches the number of selected images and click **Print**.

4. Enter electronic signature if prompted and click OK.

5. Accept Physician Agreement for downloaded Images when prompted and click OK.

Copying an Image

1. Select a patient's image and it opens in the appropriate viewer.

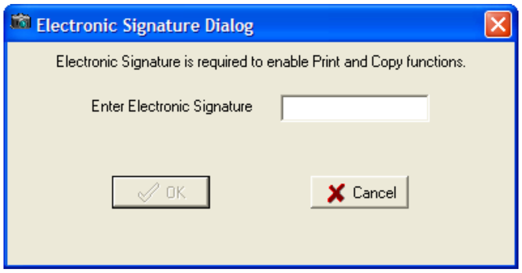
2. If the viewer that opens is the:

   - Full Resolution Viewer, click the **Image Report + Print Copy Menu** button and **Copy Image** from the drop down menu or select **Copy Image to Clipboard** from the File menu.

   - Radiology Viewer click the **Copy to Clipboard** button from the tool bar or select **Copy** from the File menu

3. If the image viewer in displayed in the Image List window you can select **Image Copy** from the File menu. If this is the first time copying an image in this session you will be prompted for an Electronic Signature. Enter your code and click **OK**.

   Note: If you hold the MAG ROI security key , you will not be prompted for an electronic signature for printing or copying. The MAG ROI key is assigned to HIMS ROI Officers. You can continue to step 4.



Electronic Signature Dialog

Electronic Signature is required to enable Print and Copy functions.

Enter Electronic Signature

4. Read and accept the Physician Agreement for Downloading Images by clicking **OK**. Clicking Cancel stops the copy request.

5. Select a purpose for copying the image from the list provided.
   After a purpose is selected the OK button is enabled.

6. Click **OK** and then paste the image into your document or graphics editor.

   Note: The Clipboard is not a part of Clinical Display.

Configuring User Preferences for the Image List and Abstracts

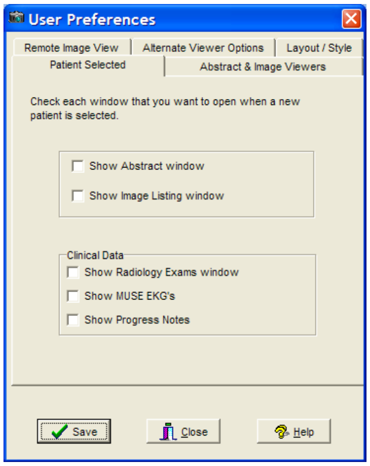
The Clinical Display interface can be configured to match the ways you prefer to work. You can:

- Display certain windows when you select a patient
- Display certain viewers when you work with an abstract or document image
- Choose remote image views and connections to remote sites
- Choose viewers for video files and PDFs
- Choose options for displaying the Image List, tree view layout, pointer movement, and mouse selects to open an item

Configuring the Display of Windows for Patient Selection

1. From the VistA Imaging Display main window, choose **Options | User Preferences**, or click the **Configure User Preferences** button on the tool bar in the Image List window.

   The Patient Selected tab of the User Preferences dialog box is displayed.

   Check each window that you want to open when a new patient is selected.

   ☐ Show Abstract window
   ☐ Show Image Listing window

   Clinical Data
   ☐ Show Radiology Exams window
   ☐ Show MUSE EKG's
   ☐ Show Progress Notes

2. Select the check box for each window that you want displayed when you select a patient:
   - Abstract window
   - Image List window
   - Radiology Exams window

- MUSE EKG's viewer window
- Progress Notes window

Note: Click the Save button only when you are finished with all the tabs.

3. Keep the dialog box open and continue.

Configuring the Abstract and Image Viewers

Shown below is an example of the image abstracts and the non-Radiology Document/Image viewer in the same window as the image list. The Image List can be displayed in the same window as the Abstracts viewer, tree view, list view, Image Reports, and full resolution images inside the Image List window.

If you want this display, you can set it on the Abstract & Image Viewers tab.

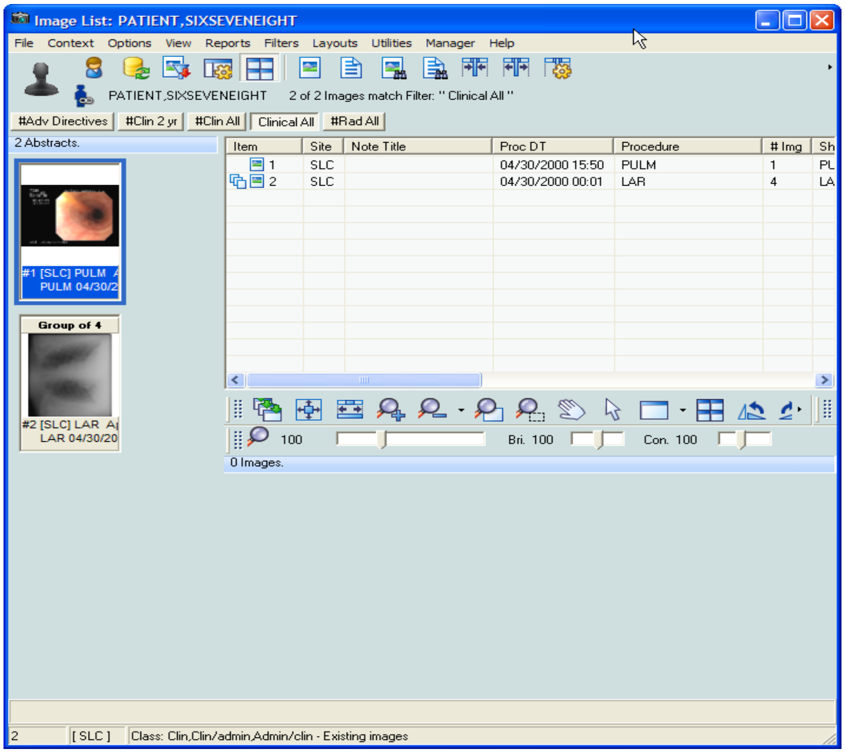


Image List: PATIENT,SIXSEVENEIGHT
File
Context
Options
View
Reports
Filters
Layouts
Utilities
Manager
Help
#Adv Directives
#Clin 2 yr
#Clin All
Clinical All
#Rad All
#1 [SLC] PULM A
PULM 04/30/2
Group of 4
#2 [SLC] LAR A
LAR 04/30/20
100
Bri. 100
Con. 100

PATIENT,SIXSEVENEIGHT 2 of 2 Images match Filter: '' Clinical All ''

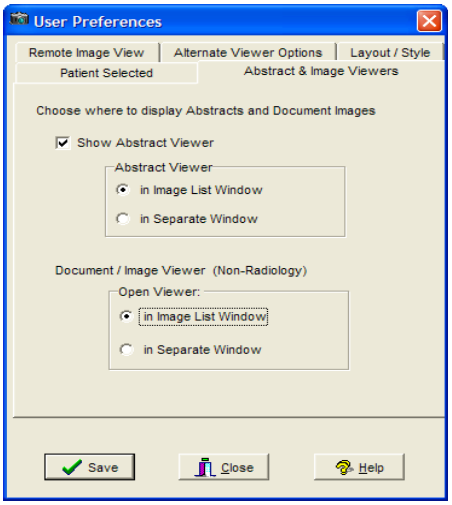
2 Abstracts.

Item	Site	Note Title	Proc DT	Procedure	# Img	Sh
1	SLC		04/30/2000 15:50	PULM	1	PL
2	SLC		04/30/2000 00:01	LAR	4	LA

0 Images.

2 [SLC] Class: Clin,Clin/admin,Admin/clin - Existing images

1. In the User Preferences dialog box, select the Abstract & Image Viewers tab.


User Preferences
Remote Image View
Alternate Viewer Options
Layout / Style
Patient Selected
Abstract & Image Viewers
Save
Close
Help

Choose where to display Abstracts and Document Images

☑ Show Abstract Viewer

Abstract Viewer
● in Image List Window
○ in Separate Window

Document / Image Viewer (Non-Radiology)

Open Viewer:
● in Image List Window
○ in Separate Window

2. If you select the check box to display abstracts in the Abstract Viewer, then select to display the abstract in the Image List or a separate window.

3. Select to display a non-radiology document or image in the Image List or a separate window.

   Note: Click the Save button only when you are finished with all the tabs.

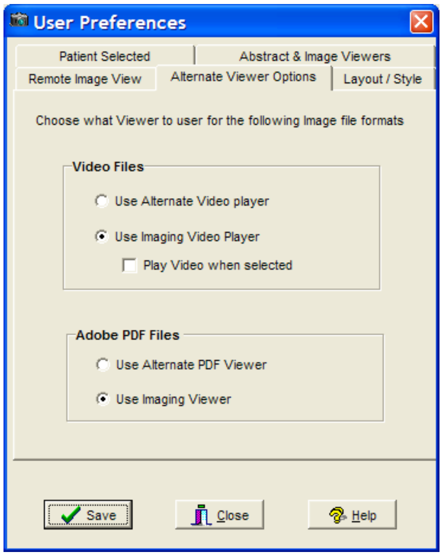
4. Keep the dialog box open and continue.

Configuring Remote Image Views

For information about these options, see *Configuring User Preferences for RIVs*.

Configuring Alternate Viewer Options

1. In the User Preferences dialog box, select the Alternate Viewer Options tab.


User Preferences
Patient Selected
Abstract & Image Viewers
Remote Image View
Alternate Viewer Options
Layout / Style
Save
Close
Help

Choose what Viewer to user for the following Image file formats

Video Files

○ Use Alternate Video player

● Use Imaging Video Player

☐ Play Video when selected

Adobe PDF Files

○ Use Alternate PDF Viewer

● Use Imaging Viewer

2. To play video files, leave the default setting to use the Imaging video player or select an alternate video player.

3. If you chose to use the default video player, select the check box if you want to explicitly select to play the video.

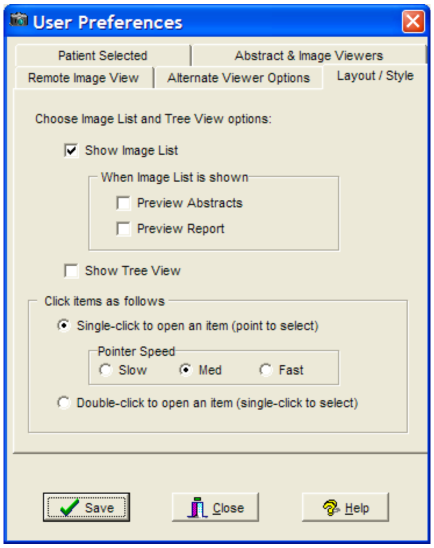
4. For Adobe PDF files, leave the default setting to use the Imaging Viewer or select an Alternate PDF viewer. The Imaging Viewer will not display bookmarks for PDF files. To use bookmark functionality in PDF files you will need to use an Alternate PDF Viewer.

   Note: Click the Save button only when you are finished with all the tabs.

5. Keep the dialog box open and continue.

Configuring the Layout Style of the Image List

1. In the User Preferences dialog box, select the Layout Style tab.



Choose Image List and Tree View options:

☑ Show Image List

When Image List is shown

☐ Preview Abstracts

☐ Preview Report

☐ Show Tree View

Click items as follows

● Single-click to open an item (point to select)

Pointer Speed

○ Slow ● Med ○ Fast

○ Double-click to open an item (single-click to select)

2. Leave the default setting to show the Image List and select to show the tree view, or clear the **Show Image List** check box and select only **Show Tree View**. The Image List and Tree View can be shown together in the Image List window. If you choose to not show the Image List or the Tree View in the Image List window then clear both check boxes. If the Image List and Tree View are not selected the Image List window will be displayed showing the menu bar, tool bar, and can be configured through the preferences to be display the panes and information that are configurable through the preferences.

3. If you chose to show the Image List, then select if you also want to show a preview of the abstracts and reports.

4. Select an item to change the pointer speed to slow, medium or fast.

5. Click the **Save** button to save all the settings and close the dialog box.

   Important: Clicking Close cancels all settings you may have added and closes the dialog box.

Viewing Patient Images at Remote Sites

A patient can have images at a local VA site, remote VA sites, and the Department of Defense (DoD). Images from remote sites are not stored locally but are retrieved on demand and cached temporarily. You can access a patient's images stored at any remote sites only if the patient has been seen at the local site.

Depending on your configuration settings, your workstation may automatically show images from remote sites, or you may need to connect to a remote site manually before remote images is displayed. The next section explains how to connect manually. The Configuring User Preferences for RIVs section explains the configuration options related to remote image views.

Using Remote Image Views (RIVs)

1. To view an image at a remote site, select a patient.

   If Remote Image Views are configured, the Image List displays all the remote sites that the patient visited at the bottom of the window, as shown in the example.

   - The sites in **green** are the active (connected) sites for the selected patient and include the number of studies or image groups (displayed in parentheses) that the patient has at that site.

     Note: Only the sites that have implemented a VIX will be able to click the DoD tab to connect to the DoD.

   - Any site in **red** with a line through it is not connected.

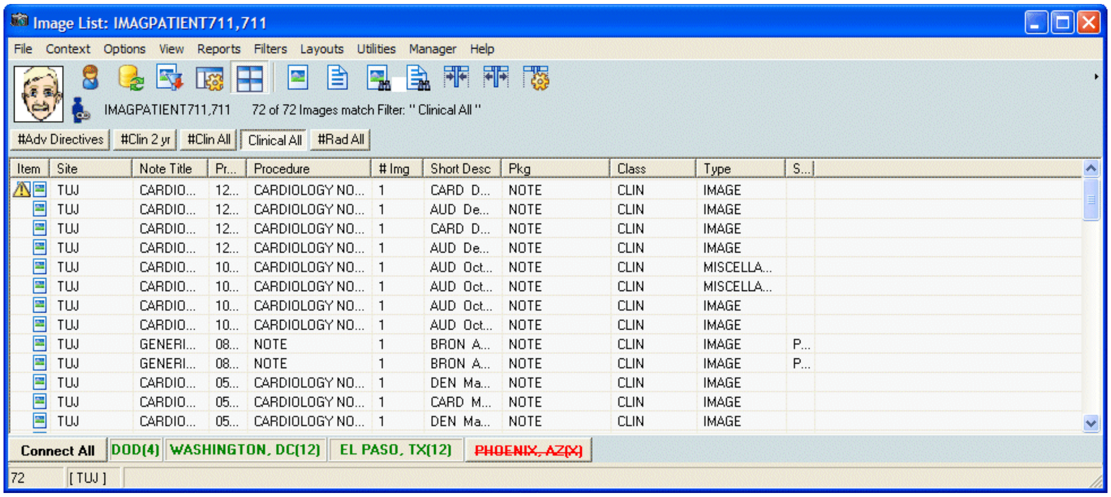
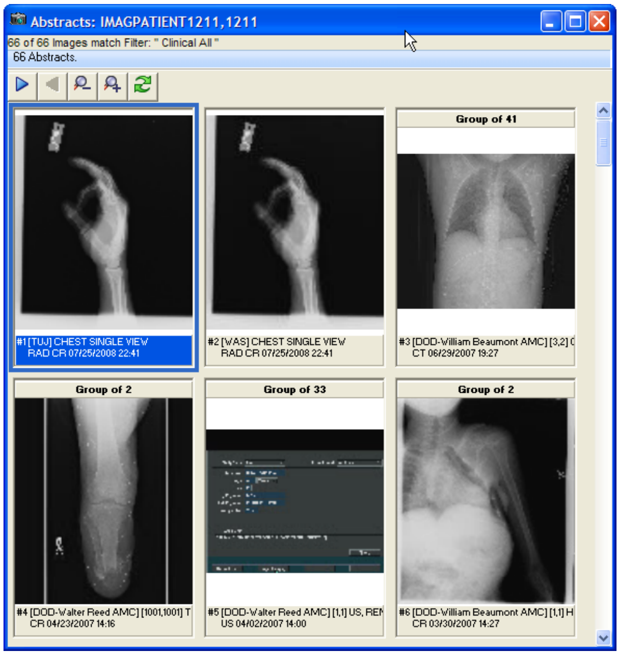


Image List: IMAGPATIENT711,711
File
Context
Options
View
Reports
Filters
Layouts
Utilities
Manager
Help
IMAGPATIENT711,711
72 of 72 Images match Filter: " Clinical All "
#Adv Directives
#Clin 2 yr
#Clin All
Clinical All
#Rad All
Connect All
DOD(4)
WASHINGTON, DC(12)
EL PASO, TX(12)
~~PHOENIX, AZ(X)~~
72
[TUJ]

Item	Site	Note Title	Pr...	Procedure	# Img	Short Desc	Pkg	Class	Type	S...
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	CARD D...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	AUD De...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	CARD D...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	12...	CARDIOLOGY NO...	1	AUD De...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	MISCELLA...	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	MISCELLA...	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	10...	CARDIOLOGY NO...	1	AUD Oct...	NOTE	CLIN	IMAGE	
	TUJ	GENERI...	08...	NOTE	1	BRON A...	NOTE	CLIN	IMAGE	P...
	TUJ	GENERI...	08...	NOTE	1	BRON A...	NOTE	CLIN	IMAGE	P...
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	DEN Ma...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	CARD M...	NOTE	CLIN	IMAGE	
	TUJ	CARDIO...	05...	CARDIOLOGY NO...	1	DEN Ma...	NOTE	CLIN	IMAGE	

2. To connect to the site (in red), click the site name. Once connected, the site name will be shown in green.

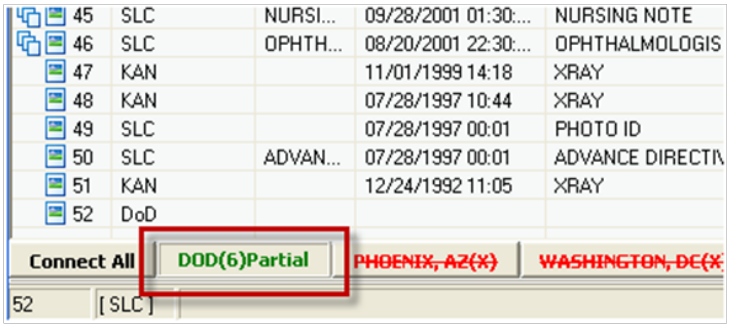
   The Image List window and the Abstracts window (shown below) display the studies from the remote site. The studies are integrated with the local studies and sorted by procedure date so that the most recent studies (regardless of the location) are displayed at the top.


Abstracts: IMAGPATIENT1211,1211
66 of 66 Images match Filter: " Clinical All "
66 Abstracts.
#1 [TUJ] CHEST SINGLE VIEW
RAD CR 07/25/2008 22:41
#2 [WAS] CHEST SINGLE VIEW
RAD CR 07/25/2008 22:41
Group of 41
#3 [DOD-William Beaumont AMC] [3,2]
CT 06/29/2007 19:27
Group of 2
#4 [DOD-Walter Reed AMC] [1001,1001] T
CR 04/23/2007 14:16
Group of 33
#5 [DOD-Walter Reed AMC] [1,1] US, REI
US 04/02/2007 14:00
Group of 2
#6 [DOD-William Beaumont AMC] [1,1] H
CR 03/30/2007 14:27

Note: If a patient has a DoD NCAT report, there will be an entry for the report in the image list and an abstract for the report in the Abstracts window. However to actually view the report, you will need to have the MAG REVIEW NCAT security key.

Partial Results

When retrieving information for a patient who has been seen at a DoD medical facility, Clinical Display presents information from multiple DoD sources. In some situations, Clinical Display will display a message indicating that the results are partial (shown below). This behavior only applies to DoD data.



45	SLC	NURSI...	09/28/2001 01:30:...	NURSING NOTE
46	SLC	OPHTH...	08/20/2001 22:30:...	OPHTHALMOLOGIS
47	KAN		11/01/1999 14:18	XRAY
48	KAN		07/28/1997 10:44	XRAY
49	SLC		07/28/1997 00:01	PHOTO ID
50	SLC	ADVAN...	07/28/1997 00:01	ADVANCE DIRECTI\
51	KAN		12/24/1992 11:05	XRAY
52	DoD			

Connect All
DOD(6)Partial
~~PHOENIX, AZ(X)~~
~~WASHINGTON, DC(X~~
52
[SLC]

Partial results can be returned due to many possible reasons. For example:

- If one DoD source responds within 30 seconds but another does not, Clinical Display returns the available data with the Partial results indicator.

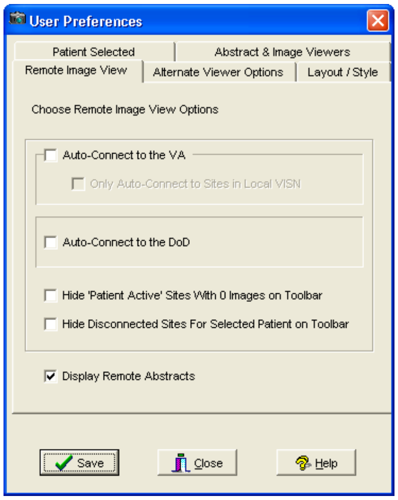
- If a specific DoD source has so much data it will take a long time to send all of it, Clinical Display may return available information as a Partial result rather than make the user wait for all the information to become available: for example if a patient has multiple radiology images available.

If “Partial” appears in the DoD remote site button, you can refresh the patient by clicking the **Refresh Patient Images** button on the toolbar to retry requesting data from the DoD which might return a full result.

Configuring User Preferences for RIVs

You can set user preferences for RIVs that determine the behavior of remote image viewing.

1. To access the remote image views user preferences, choose **Options | User Preferences** from the menu bar in the VistA Imaging Display main window, and select the Remote Image View tab shown.



Choose Remote Image View Options

☐ Auto-Connect to the VA
☐ Only Auto-Connect to Sites in Local VISN
☐ Auto-Connect to the DoD
☐ Hide 'Patient Active' Sites With 0 Images on Toolbar
☐ Hide Disconnected Sites For Selected Patient on Toolbar
☑ Display Remote Abstracts

2. Select or clear any of the following options:

Option	**Description**
Remote Image Views Auto-Connect Enabled	If this option is selected, Clinical Display automatically connects to all remote sites where the patient has been seen. **Note**: This option might slow down viewing patient data.
Only Auto-Connect to Sites in Local VISN	When selected, the auto connect option applies only to sites in your local VISN.
Auto-Connect to the DoD	When selected, Clinical Display automatically connects to the DoD when a patient who has been seen at the DoD is selected. **Note**: This option might slow down viewing patient data.
Hide ‘Patient Active’ Sites with 0 Images on Tool bar	When selected, the Remote Image Views tool bar in the Image List window will not show sites that the patient visited if the patient has 0 studies at that site. This could be useful if a patient has been seen at many sites.

Option	Description
Hide Disconnected Sites For Selected Patient on Tool bar	When selected, the Remote Image Views tool bar displays only connected sites for the selected patient. Disconnected sites are not displayed on the tool bar.
Display Remote Abstracts	When selected, the Clinical Display client displays abstract images from remote sites. **Note**: This option might slow down viewing patient data.

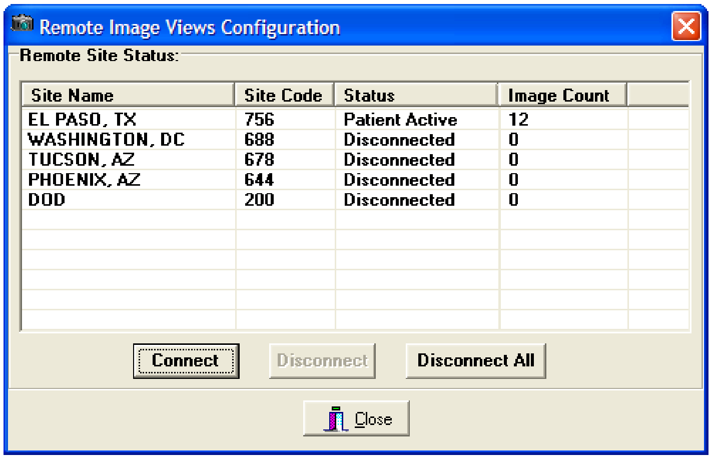
3. Click **Save** and **Close**.

Configuring Your Connection to Remote Sites

If you want to disconnect from one or more of the remote sites, follow these steps:

1. Choose **Options | Remote Image Views Configuration** from the menu bar, in the VistA Imaging Display main window or in the Image List window or click the **Remote Image Views Configuration** button on the tool bar.

   The Remote Image Views Configuration window opens.



Site Name	Site Code	Status	Image Count
EL PASO, TX	756	Patient Active	12
WASHINGTON, DC	688	Disconnected	0
TUCSON, AZ	678	Disconnected	0
PHOENIX, AZ	644	Disconnected	0
DOD	200	Disconnected	0

Column Name	Description
Site Name	Location of the VA site or DoD site
Site Code	Code representing the site
Status	Status can be one of the following: Active - Site is connected and the patient has images at the site. Inactive - Site is disconnected and the patient does not have images at the site. Disconnected - Connection not established to the site
Image Count	Total number of image and image groups at the site for the patient

2. Select one or more sites and choose one of the following options:
    - Click **Disconnect** to disconnect from the selected site(s).
    - Click **Disconnect All** to disconnect from all connected sites.
3. Click **Close** when you are finished.

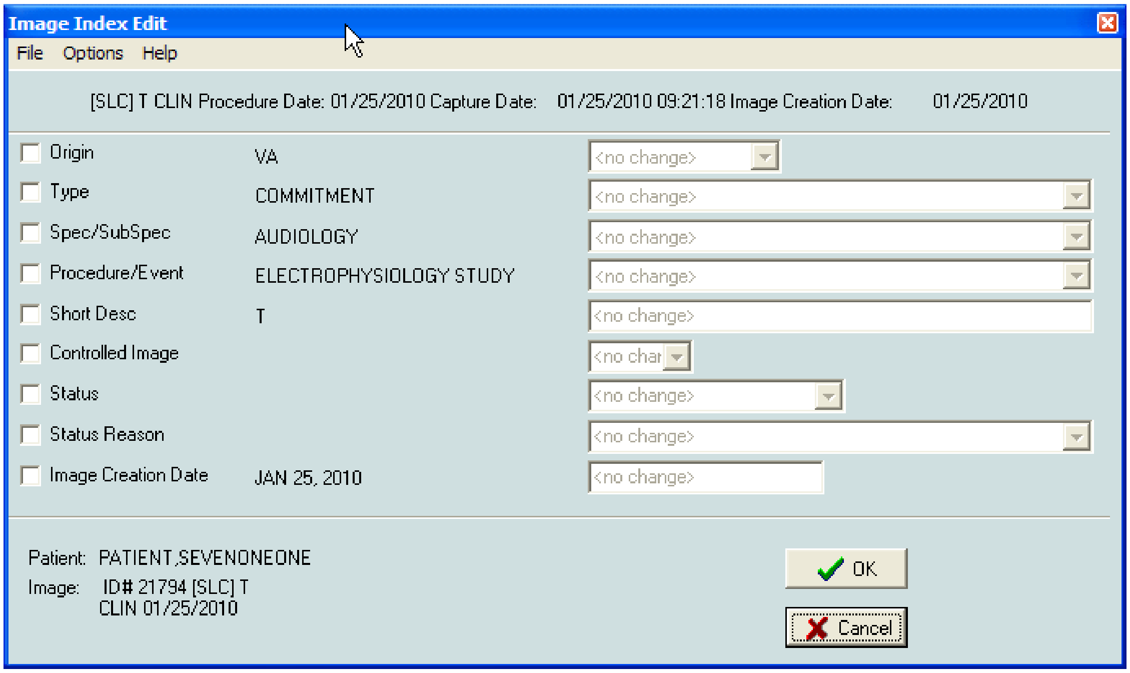
Editing the Image Index Entries

Note: You can access this utility only if you hold the **MAG EDIT** or **MAG SYSTEM** security key.

When images are captured, they are indexed, as shown in the example. If they are indexed incorrectly (for example, a teledermatology image is indexed as a cardiology image), you can use the Image Index Edit Utility to edit or add values to correctly index the image. The Index Edit Utility edits the index fields of an image group or single image.

The Image Index Edit utility can be used from the Image List window or the QA Review window.

Image Index Edit Window



[SLC] T CLIN Procedure Date: 01/25/2010 Capture Date: 01/25/2010 09:21:18 Image Creation Date: 01/25/2010

☐ Origin VA <no change>
☐ Type COMMITMENT <no change>
☐ Spec/SubSpec AUDIOLOGY <no change>
☐ Procedure/Event ELECTROPHYSIOLOGY STUDY <no change>
☐ Short Desc T <no change>
☐ Controlled Image <no char
☐ Status <no change>
☐ Status Reason <no change>
☐ Image Creation Date JAN 25, 2010 <no change>

Patient: PATIENT,SEVENONEONE
Image: ID# 21794 [SLC] T
CLIN 01/25/2010

Menu Bar in the Image Index Edit Window

File Menu

Menu Option	Description
Save	'Save' is the same as the 'OK' button. All
Exit	'Exit' will close the window without saving changes.

Options Menu

Menu Option	Description
Initial Values	Initial Values: will populate all enabled fields with the initial value of the field.
Clear Fields	Will clear all enabled fields.
Include All Fields	Include All Fields: Will enabled all fields.
Exclude All Fields	Exclude All Fields: will disable all fields and discard any changes.

Help Menu

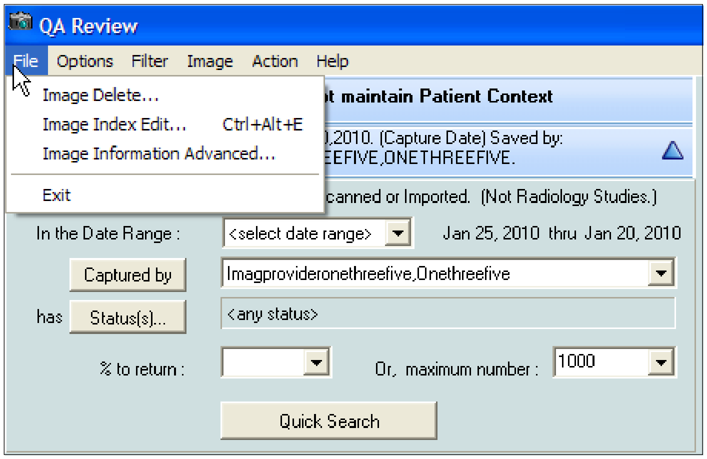
Menu Option	Description
Index Edit Help	Index Edit Help: will bring up the On-Line help topic for this window.

Editing Index Fields

Note: When you edit an index on a group of images, the images within the edited group are not automatically updated or changed. You will have to edit each image if changes need to be made in the way that the images were indexed.

1. To use the Image Edit Index Utility from the QA Review Utility, select **File | Image Index Edit**.

   The utility is also available from the *Image List Window*.


QA Review
File
Options
Filter
Image
Action
Help
Image Delete...
Image Index Edit... Ctrl+Alt+E
Image Information Advanced...
Exit
Captured by
Status(s)...
Quick Search

t maintain Patient Context

),2010. (Capture Date) Saved by:
EEFIVE,ONETHREEFIVE.

canned or Imported. (Not Radiology Studies.)

In the Date Range : <select date range> Jan 25, 2010 thru Jan 20, 2010

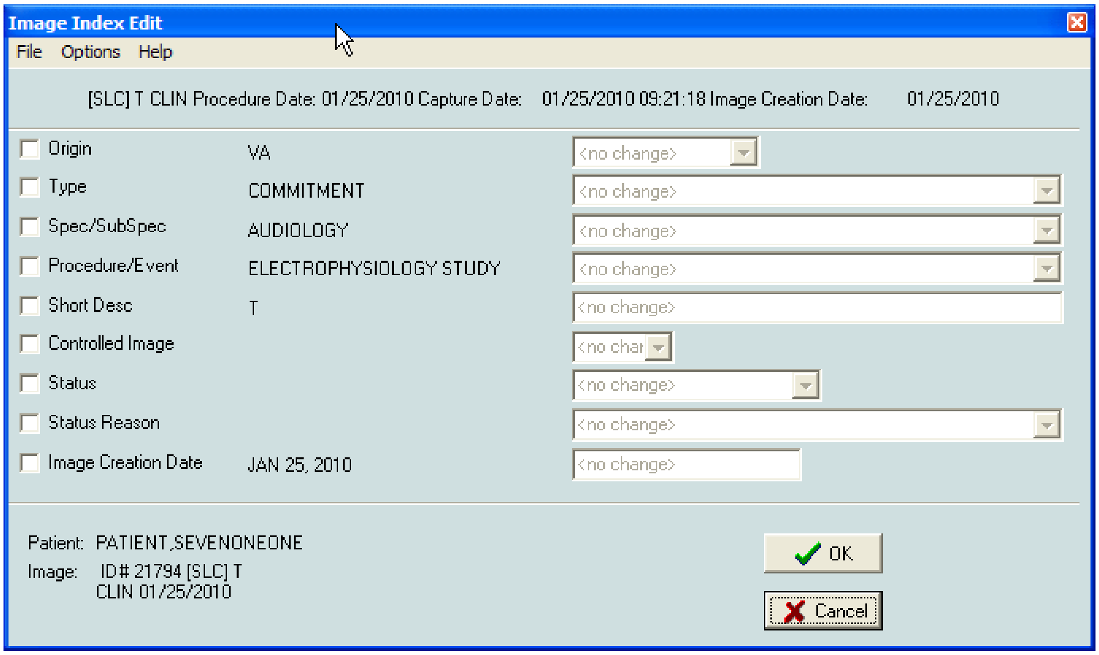
Captured by Imagprovideronethreefive,Onethreefive

has Status(s)... <any status>

% to return :

Or, maximum number : 1000

The Image Edit Index window opens.



[SLC] T CLIN Procedure Date: 01/25/2010 Capture Date: 01/25/2010 09:21:18 Image Creation Date: 01/25/2010

☐ Origin	VA	<no change>
☐ Type	COMMITMENT	<no change>
☐ Spec/SubSpec	AUDIOLOGY	<no change>
☐ Procedure/Event	ELECTROPHYSIOLOGY STUDY	<no change>
☐ Short Desc	T	<no change>
☐ Controlled Image		<no char
☐ Status		<no change>
☐ Status Reason		<no change>
☐ Image Creation Date	JAN 25, 2010	<no change>

Patient: PATIENT,SEVENONEONE
Image: ID# 21794 [SLC] T
CLIN 01/25/2010

2. Select the check box next to the Index field that you need to change.

   The drop-down list for the selected Index term is activated.

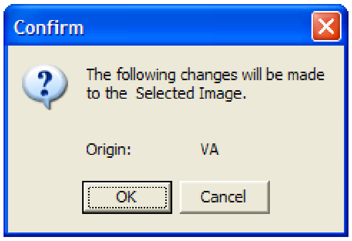
3. To select all the indexes, select **Options | Include All Fields** or exclude all indexes, select **Exclude All Fields**.

4. Select the drop down list for the index term and click the correct term from the list.

   You can update as many Indexes as you need to.

5. Click **OK** or select **File | Save** to update the Image Index.

   The Image Index Edit window closes and a Confirm window is displayed, as shown in this example confirming that the Origin is changed to "VA".



The following changes will be made to the Selected Image.

Origin: VA

6. Click **OK** to make the changes or **Cancel**.

   Clicking OK makes the selected changes to the image index. If you click Cancel, the Confirm window closes and no changes are made to the image index.

   Note: If you change and accept the change for any of the index fields, a Refresh icon is displayed in the Image List window. You will need to refresh the images by clicking the **Refresh Patient Images** button on the tool bar.

Checking Quality Assurance on Images

Note: You must hold the **MAG EDIT, MAG QA REVIEW** or **MAG SYSTEM** security keys.

The Quality Assurance (QA) Utility enables authorized users to review a sampling of images acquired into VistA Imaging through the Capture Client or the Import API, or both. This utility verifies that:

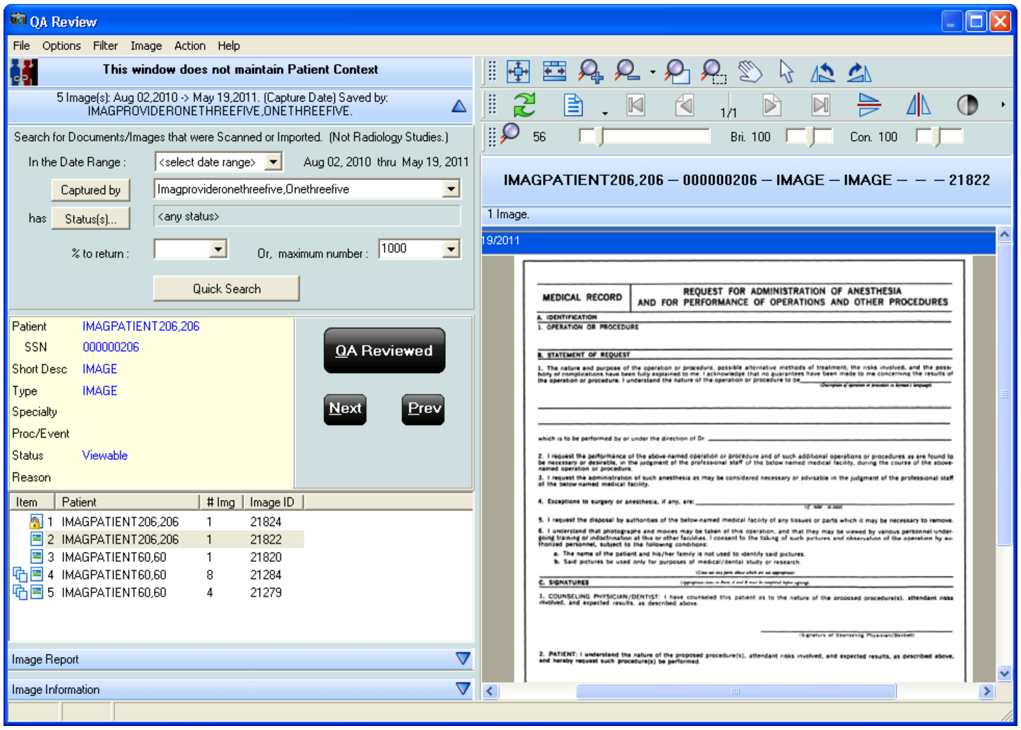
- Images captured in VistA Imaging are assigned to the correct patient
- Indexes of the images were set correctly when the images were captured
- Images meet locally or nationally defined quality standards

During the review process, you can change image index values using the Index Edit Utility (see chapter *Editing the Image Index Entries*) for image groups and single images captured by the Capture Workstation and Import API. As previously mentioned, an *image group* is a collection of related single images of the same or mixed formats. *Single images* are not part of an image group.

Note: Images captured by the DICOM Gateway and images within a group are not listed for QA Review.

QA Review Window

QA Review window can be accessed through: **Utilities| QA Review**.


QA Review
File
Options
Filter
Image
Action
Help
This window does not maintain Patient Context
Quick Search
QA Reviewed
Next
Prev
1/1
56
Bri. 100
Con. 100
Image Report
Image Information
MEDICAL RECORD
REQUEST FOR ADMINISTRATION OF ANESTHESIA AND FOR PERFORMANCE OF OPERATIONS AND OTHER PROCEDURES

5 Image(s): Aug 02,2010 -> May 19,2011. (Capture Date) Saved by: IMAGPROVIDERONETHREEFIVE,ONETHREEFIVE.

Search for Documents/Images that were Scanned or Imported. (Not Radiology Studies.)

In the Date Range : <select date range> Aug 02, 2010 thru May 19, 2011

Captured by Imagprovideronethreefive,Onethreefive

has Status(s)... <any status>

% to return :

Or, maximum number : 1000

Patient: IMAGPATIENT206,206
SSN: 000000206
Short Desc: IMAGE
Type: IMAGE
Specialty:
Proc/Event:
Status: Viewable
Reason:

Item	Patient	# Img	Image ID
1	IMAGPATIENT206,206	1	21824
2	IMAGPATIENT206,206	1	21822
3	IMAGPATIENT60,60	1	21820
4	IMAGPATIENT60,60	8	21284
5	IMAGPATIENT60,60	4	21279

IMAGPATIENT206,206 – 000000206 – IMAGE – IMAGE – – – 21822

1 Image.

19/2011

Menu Bar in the QA Review Window

File Menu

Menu Option	Description
Image Delete	Users with the correct security Keys can delete an image.
Image Index Edit	The Image Index Edit window opens. The Image Index values can be edited there. If edits are made, the status Button will change to show an edit has been made.
Image Information Advanced	Users with the correct security key have access to this menu option.
Exit	Close the QA Review utility window.

Options Menu

Menu Option	Description
Refresh List	Refreshes the filtered image list
Clear all	Clears the form.
Select Columns	Opens the columns select form. User can select which columns to view.
Fit to Text	Fit the width of the columns to the longest text in each.
Fit to Window	Space the columns so that all are visible in the image list.
Preview Report	If selected, the report pane will be visible and will display the associated report of the image if one exists.
Preview Image Info	If selected, the information pane will be visible and information on the selected image will be displayed.
QA Review Report	Opens the QA report utility window. (see QA Report section)
Shortcut Key legend	Opens the Shortcut Key Legend window, which describes all shortcut keys that are in effect for VistA Imaging Display.
Message Window	Opens the Imaging Session Message History window.

Filter Menu

Menu Option	Description
Image List Filters	Opens the Image Filter Add/Edit window. User can Create, Edit or Select an image filter. If a filter is selected, its name will be displayed.
Filter Details	Opens an Information window that shows details of the current filter.

Menu Option	Description
Quich Search Panel	Opens the quick search pane. The Quick search pane has the new search properties that will be available to verifying personnel.
Search Images captured by VI Capture Client	When selected the quick search will include all of the images for the date range selected that were captured using the VistA Imaging Capture client.
Search Images captured by VI Import API	When selected the quick search will include all of the images for the date range selected that were imported using the VistA Imaging Import API.

Image Menu

Menu Option	Description
Zoom	Zoom has the following options: • Zooms In - to zoom in to an image • Zoom Out - to zoom out of an image • Fit to Width - to fit the image to the window width (horizontal) • Fit to Height - to fit the image to the height of the window (vertical) • Fit to Window - to fit the image to the entire window (vertical and horizontal) • Actual Size - to show image in its original size
Mouse	Mouse has the following options: • Pan - to pan image by dragging mouse • Magnify - to magnify an image where the mouse is clicked • Zoom - to zoom into an area of the image selected with the mouse • Pointer - to go back to mouse pointer
Rotate	Rotate has the following options: • Right - Rotates the image 90 degrees clockwise • Left - Rotates the image 90 degrees counterclockwise • 180 - Rotates the image 180 degrees • Flip Horozontal - Flips the image horozontally • Flip Verticle - Flips the image vertically
Contrast/Brightness	Contrast/Brightness has the following options: • ‘Contrast +’ - Increases the contrast of an image • ‘Contrast –‘ - Descreases the contrast of an image • ‘Brightness +’ - Increases the brightness of an image • ‘Brightness –‘ - Descreases the brightness of an image

Menu Option	Description
Invert	Reverses the colors of the image.
Reset	Resets the currently selected image to its original display settings including zoom, contrast, window brightness, and orientation
Scroll	Scroll has the following options: • Top Left - scroll to the top left corner of the image • Top Right - scroll to the top right corner of the image • Bottom Left - scroll to the bottom left corner of the image • Bottom Right - scroll to the bottom right corner of the image • Left - scroll to the left • Right - scroll to the right • Up - scroll up • Down - scroll down
Maximize Image	Resize image to fill the entire window.
Next Image	Displays the next image,
Previous Image	Displays the previous image.

Action Menu

Menu Option	Description
Image Status QA Reviewed	Changes the status of the image to QA Reviewed. When the status of an image is changed the list button will change to a 'Refresh needed' button. This indicates that a change has been made to the listed image.
Image Status Needs Review	Changes the status of the image to Needs Review. When the status of an image is changed the list button will change to a 'Refresh needed' button. This indicates that a change has been made to the listed image.
Next	Selects the Next image in the list. When 'Next' is selected the status of the current image is not changed. The next image in the list will be displayed in the Image Viewer.
Previous	Selects the Previous image in the list. When ‘Previous’ is selected the status of the current image is not changed. The previous image in the list will be displayed in the Image Viewer

Help Menu

QA Review Help	Opens the What’s New in Patch 93 document.

Applying Advanced Filters to the QA Review

Note: You must hold the **MAG EDIT** or **MAG SYSTEM** security key.

1. In the QA Review window, choose **Filter | Image List Filters** and after the Image Filter Add/Edit window opens select a filter from the list.

   The Image Filter Add/Edit window opens.

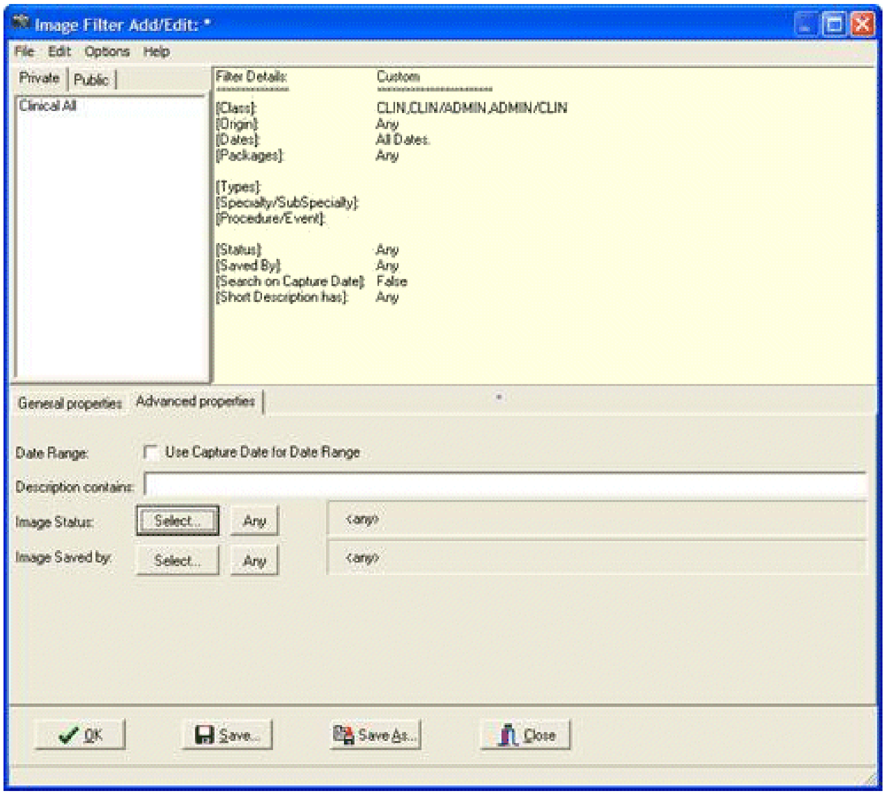
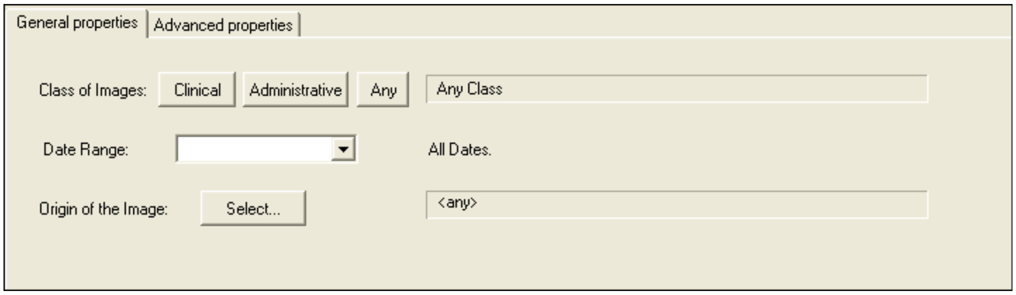


Image Filter Add/Edit: *
File
Edit
Options
Help
Private
Public
Clinical All
General properties
Advanced properties
Select...
Any
Select...
Any
OK
Save...
Save As...
Close

```
Filter Details:                Custom
***************                ***********************
[Class]:                       CLIN,CLIN/ADMIN,ADMIN/CLIN
[Origin]:                      Any
[Dates]:                       All Dates.
[Packages]:                    Any

[Types]:
[Specialty/SubSpecialty]:
[Procedure/Event]:

[Status]:                      Any
[Saved By]:                    Any
[Search on Capture Date]:      False
[Short Description has]:       Any
```

Date Range: ☐ Use Capture Date for Date Range
Description contains:
Image Status: <any>
Image Saved by: <any>

2. Select the General properties tab in the lower part of the window.

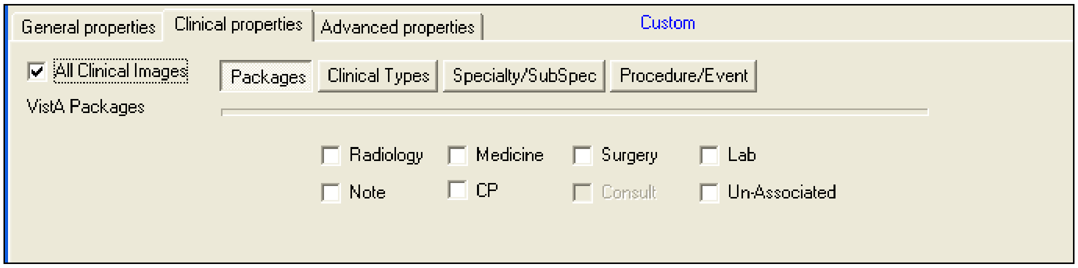

General properties
Advanced properties
Clinical
Administrative
Any
Select...

Class of Images: Any Class
Date Range: All Dates.
Origin of the Image: <any>

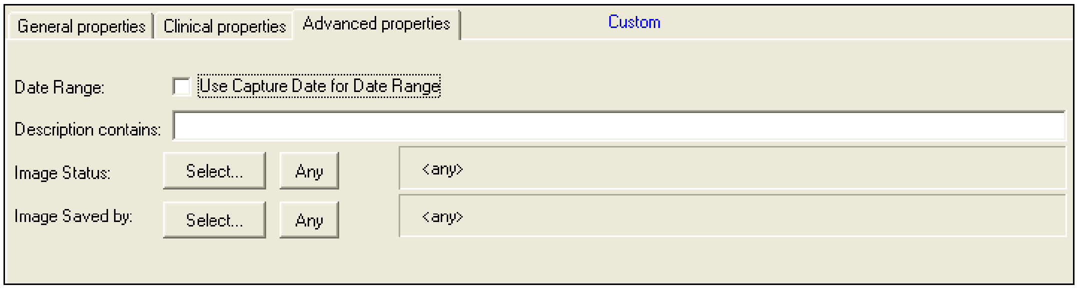
3. Click the **Clinical** button for the class of image and specify the date range and origin of the image.

   Note: Specifying the Clinical class adds the Clinical properties tab to the lower part of the window.

4. Select the Clinical Properties tab and configure the properties that will be included in the filter.


General properties
Clinical properties
Advanced properties
Custom
☑ All Clinical Images
VistA Packages
Packages
Clinical Types
Specialty/SubSpec
Procedure/Event
☐ Radiology
☐ Medicine
☐ Surgery
☐ Lab
☐ Note
☐ CP
☐ Consult
☐ Un-Associated

5. Select the Advanced properties tab.


General properties
Clinical properties
Advanced properties
Custom
Date Range:
☐ Use Capture Date for Date Range
Description contains:
Image Status:
Select...
Any
<any>
Image Saved by:
Select...
Any
<any>

6. Set any of the following options:

   - Use Capture Date for Date Range: If the ‘Use Capture Date for Data Range’ check box is selected then the filter will search the Date Range (selected on the ‘General Properties’ tab) by using the Date/Time the Image was saved to the database. If cleared the date used for the date range is the Procedure/Exam Date /Time. (The procedure/exam data time is the default date used.

   - Description contains: If the ‘Description Contains’ field has any text in it, then only images that have that text (anywhere in the short description) will be returned.

   - Image Status: The Image Status Field in the Image File has the following values ‘Viewable’, ‘Verified’, ‘In Progress’ and ‘Needs Review’.

   - Image Saved by: You can select the person who captured the images, and only images captured by that person (and satisfying all other properties) will be returned.

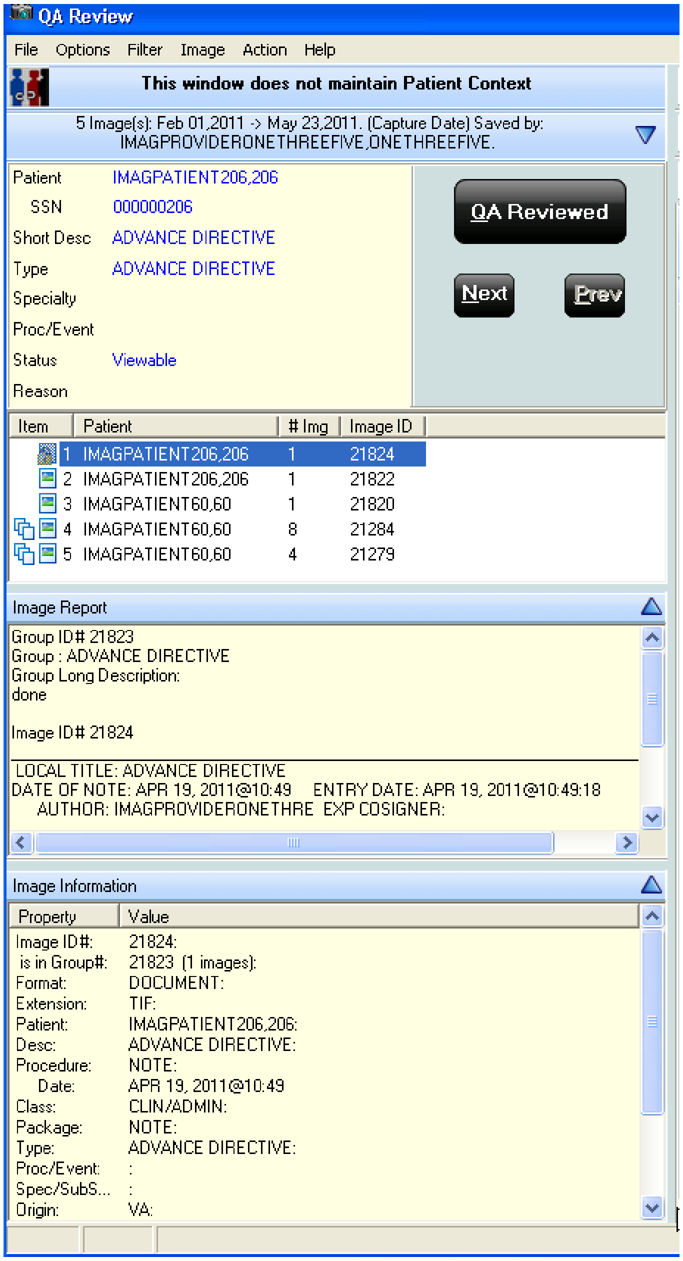
7. Click the **Save** button Save... at the bottom of the window to save the filter, or click the **Save As** button Save As... to save the filter to another name.

Selecting an Existing Filter for the QA Review Queries

When you select a filter a list of all images and image groups that match the filter are displayed in the QA Review window. The list of images returned when a filter is used will limited by the dates specified in the filter parameters. If no dates are specified then the filter will return all of the images for the QA Review that match the filter.

Note: The Quick search button will be enabled only after all values are selected.

1. From the QA Review window, choose **Filter| Image List Filters** from the menu bar.
2. Select a Private or Public filter from the list of filters and click **OK**.



5 Image(s): Feb 01,2011 -> May 23,2011. (Capture Date) Saved by: IMAGPROVIDERONETHREEFIVE,ONETHREEFIVE.

Patient IMAGPATIENT206,206
SSN 000000206
Short Desc ADVANCE DIRECTIVE
Type ADVANCE DIRECTIVE
Specialty
Proc/Event
Status Viewable
Reason

Item	Patient	# Img	Image ID
1	IMAGPATIENT206,206	1	21824
2	IMAGPATIENT206,206	1	21822
3	IMAGPATIENT60,60	1	21820
4	IMAGPATIENT60,60	8	21284
5	IMAGPATIENT60,60	4	21279

Group ID# 21823
Group : ADVANCE DIRECTIVE
Group Long Description:
done

Image ID# 21824

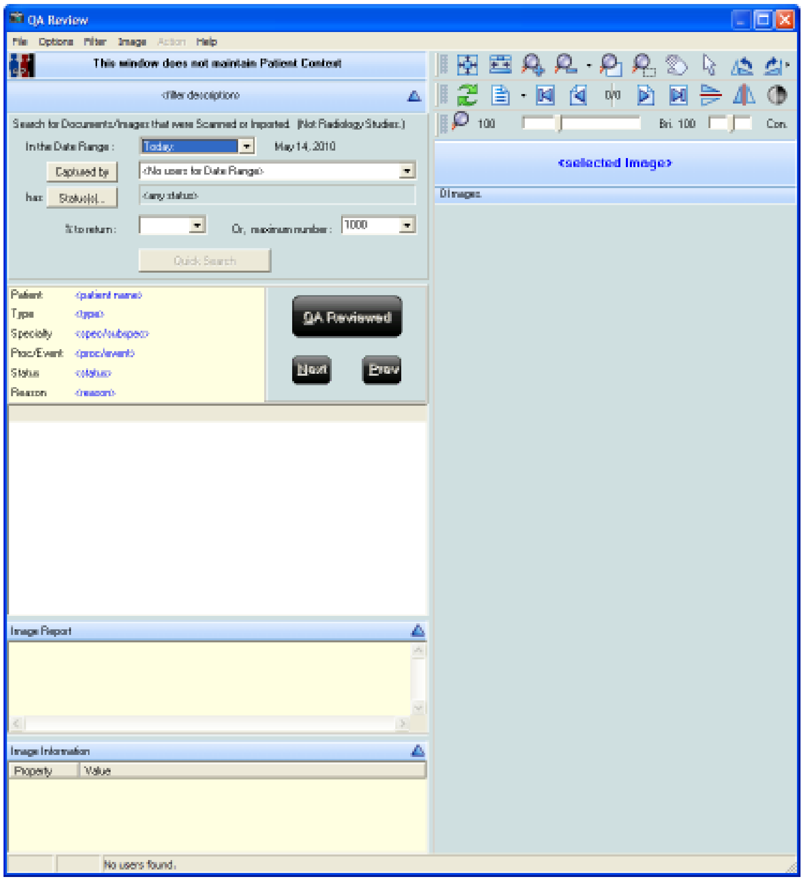
LOCAL TITLE: ADVANCE DIRECTIVE
DATE OF NOTE: APR 19, 2011@10:49   ENTRY DATE: APR 19, 2011@10:49:18
AUTHOR: IMAGPROVIDERONETHRE EXP COSIGNER:

Property	Value
Image ID#:	21824:
is in Group#:	21823 (1 images):
Format:	DOCUMENT:
Extension:	TIF:
Patient:	IMAGPATIENT206,206:
Desc:	ADVANCE DIRECTIVE:
Procedure:	NOTE:
Date:	APR 19, 2011@10:49
Class:	CLIN/ADMIN:
Package:	NOTE:
Type:	ADVANCE DIRECTIVE:
Proc/Event:	:
Spec/SubS...	:
Origin:	VA:

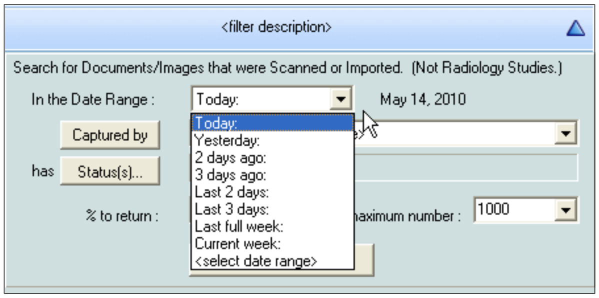
3. Continue to the procedure *Performing the QA Review*.

Specifying the QA Review Parameters

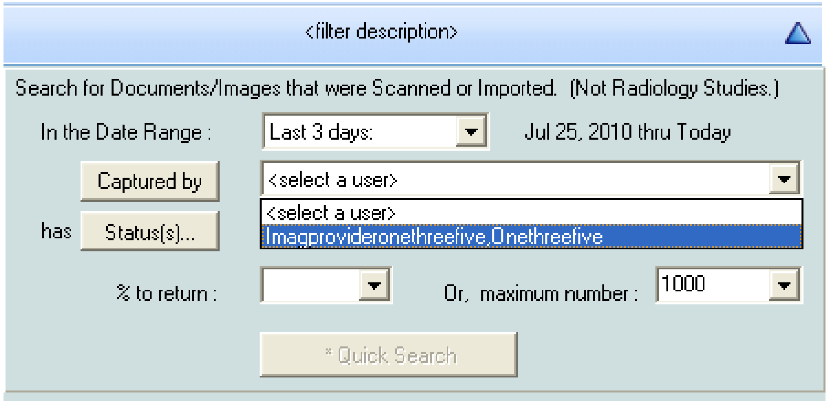
1. From the VistA Imaging Display main window or the Image List window, choose **Utilities | QA Review** from the menu bar to open the QA Review window.


QA Review
File Options Filter Image Action Help
This window does not maintain Patient Context
<filter description>
Search for Documents/Images that were Scanned or Imported. (Not Radiology Studies.)
In the Date Range : Today: May 14, 2010
Captured by <No users for Date Range>
has Status(s)... <any status>
% to return : Or, maximum number : 1000
Quick Search
Patient <patient name>
Type <type>
Specialty <spec/subspec>
Proc/Event <proc/event>
Status <status>
Reason <reason>
QA Reviewed
Next
Prev
Image Report
Image Information
Property Value
No users found.
0/0
100 Bri. 100 Con.
<selected Image>
0 Images

2. Select the date range by clicking the drop down list. If you select **<select date range>**, select a From and To date from the date window displayed. Select the desired date range.


<filter description>
Search for Documents/Images that were Scanned or Imported. (Not Radiology Studies.)
In the Date Range : Today: May 14, 2010
Today:
Yesterday:
2 days ago:
3 days ago:
Last 2 days:
Last 3 days:
Last full week:
Current week:
<select date range>
Captured by
has Status(s)...
% to return :
aximum number : 1000

3. Click the **Captured by** button Captured by to refresh the drop down list to display the users who captured images within the specified date range, and then select a user from the list.



<filter description>
Captured by
has
Status(s)...
% to return :
Or, maximum number :
* Quick Search

Search for Documents/Images that were Scanned or Imported. (Not Radiology Studies.)

In the Date Range : Last 3 days: Jul 25, 2010 thru Today

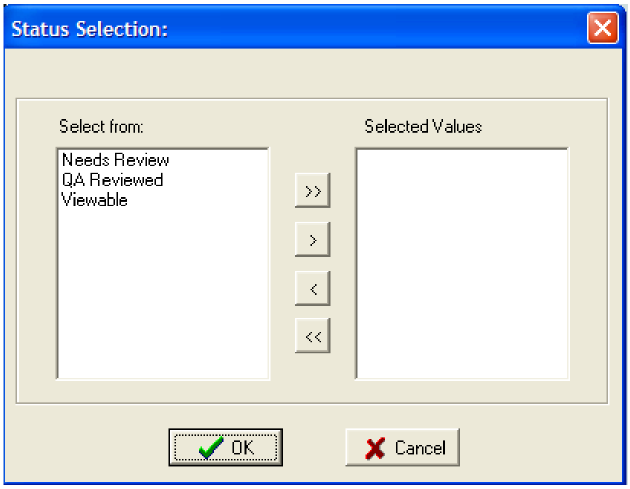
<select a user>

<select a user>
Imagprovideronethreefive,Onethreefive

1000

4. Click the **Status(s)** button Status(s)... to further limit images that are returned.

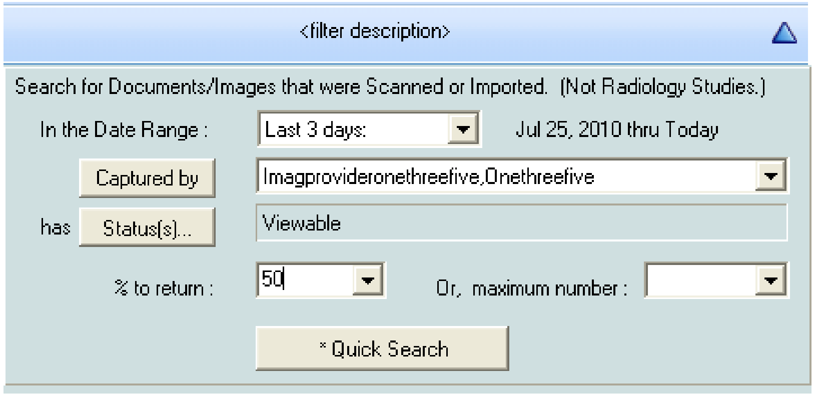
5. Select the status(s) that you want returned by moving the statuses to the Selected Values list in the Status Selection window displayed. Click **OK** to continue or **Cancel** to close the Status Selection window.



Status Selection:
Select from:
Selected Values
>>
>
<
<<
OK
Cancel

Needs Review
QA Reviewed
Viewable

6. For the specified date range and user selected, select either:
    - The percentage to return by selecting a number from the drop down list, or by typing a numerical value in the field, or
    - The maximum number of images to return by selecting a number from the drop down list or by typing a numerical value in the field.



Search for Documents/Images that were Scanned or Imported. (Not Radiology Studies.)

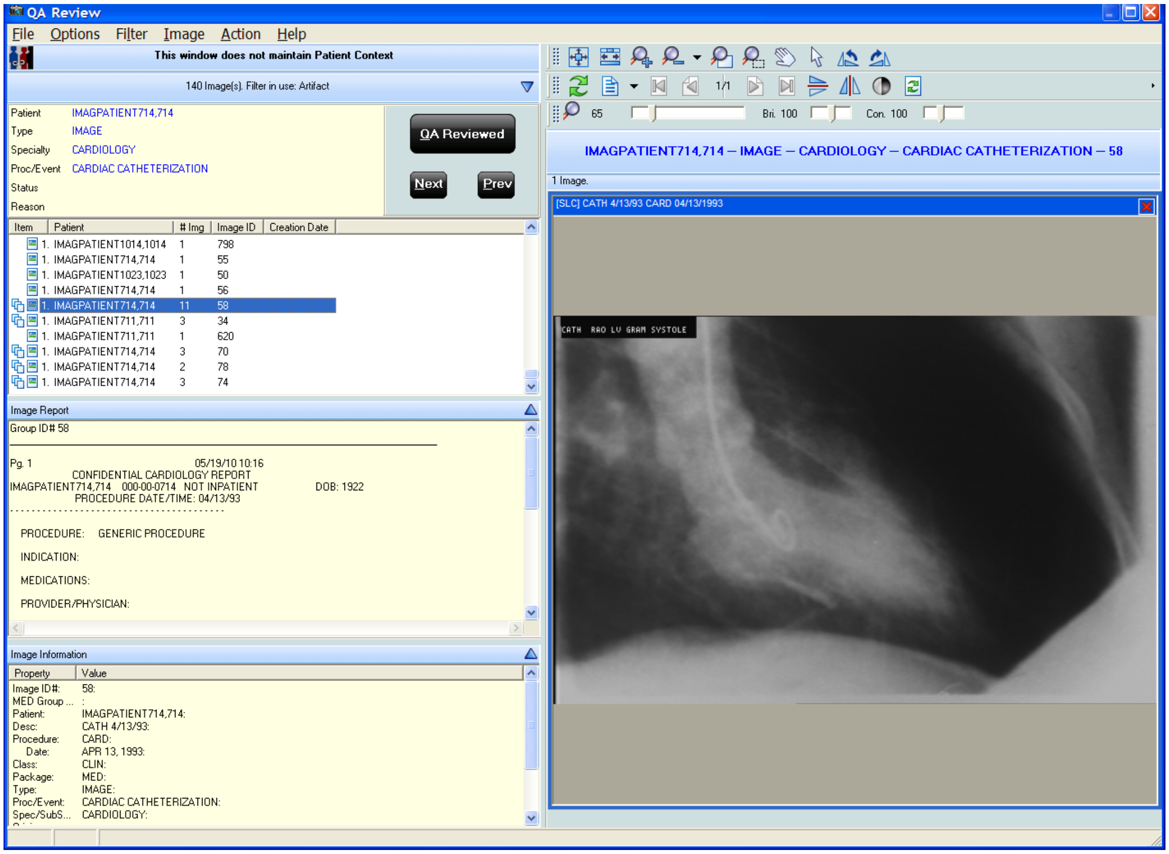
In the Date Range : Last 3 days: Jul 25, 2010 thru Today

Captured by Imagprovideronethreefive,Onethreefive

has Status(s)... Viewable

% to return : 50 Or, maximum number :

7. Click the **Quick Search** button * Quick Search to begin the search. The search results are displayed in the QA Review window, as shown.



140 Image(s). Filter in use: Artifact

Patient IMAGPATIENT714,714
Type IMAGE
Specialty CARDIOLOGY
Proc/Event CARDIAC CATHETERIZATION
Status
Reason

Item	Patient	# Img	Image ID	Creation Date
1.	IMAGPATIENT1014,1014	1	798	
1.	IMAGPATIENT714,714	1	55	
1.	IMAGPATIENT1023,1023	1	50	
1.	IMAGPATIENT714,714	1	56	
1.	IMAGPATIENT714,714	11	58	
1.	IMAGPATIENT711,711	3	34	
1.	IMAGPATIENT711,711	1	620	
1.	IMAGPATIENT714,714	3	70	
1.	IMAGPATIENT714,714	2	78	
1.	IMAGPATIENT714,714	3	74	

Image Report

```
Group ID# 58
________________________________________________________________

Pg. 1                                  05/19/10 10:16
             CONFIDENTIAL CARDIOLOGY REPORT
IMAGPATIENT714,714   000-00-0714  NOT INPATIENT            DOB: 1922
              PROCEDURE DATE/TIME: 04/13/93
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  PROCEDURE:    GENERIC PROCEDURE

  INDICATION:

  MEDICATIONS:

  PROVIDER/PHYSICIAN:
```

Image Information

Property	Value
Image ID#:	58:
MED Group ...	:
Patient:	IMAGPATIENT714,714:
Desc:	CATH 4/13/93:
Procedure:	CARD:
Date:	APR 13, 1993:
Class:	CLIN:
Package:	MED:
Type:	IMAGE:
Proc/Event:	CARDIAC CATHETERIZATION:
Spec/SubS...	CARDIOLOGY:

65 Bri. 100 Con. 100 1/1

IMAGPATIENT714,714 – IMAGE – CARDIOLOGY – CARDIAC CATHETERIZATION – 58

1 Image.

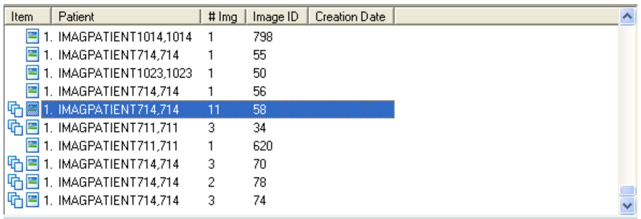
[SLC] CATH 4/13/93 CARD 04/13/1993

Performing the QA Review

Within your search results, review the data based on the following QA requirements:

- Images captured in VistA Imaging are assigned to the correct patient
- Indexes of the images were set correctly when the images were captured
- Images meet locally or nationally defined quality standards

1. Select an image from the list shown in the example.



Item	Patient	# Img	Image ID	Creation Date
1.	IMAGPATIENT1014,1014	1	798	
1.	IMAGPATIENT714,714	1	55	
1.	IMAGPATIENT1023,1023	1	50	
1.	IMAGPATIENT714,714	1	56	
1.	IMAGPATIENT714,714	11	58	
1.	IMAGPATIENT711,711	3	34	
1.	IMAGPATIENT711,711	1	620	
1.	IMAGPATIENT714,714	3	70	
1.	IMAGPATIENT714,714	2	78	
1.	IMAGPATIENT714,714	3	74	

2. Examine the image in the right pane using the buttons in the tool bar above the image to manipulate the image if necessary.

3. Review the Image Information and Image Report in the panes on the left.

4. If the image meets the QA review requirements, click the **QA Reviewed** button.

5. In the same manner, review each item in the list.

6. Click the **Next** button or the **Previous** button to move forward or backward in the list.

   Note: If an image does not meet the QA review requirements, then the image must be marked as Needs Review.

7. To mark an image with a status of **Needs Review**, follow steps 1 through 3 above and then either:

   - Select **Action** from the menu bar and select **Image Status => Needs Review**
   - Use the shortcut by pressing CRTL+ALT+R.

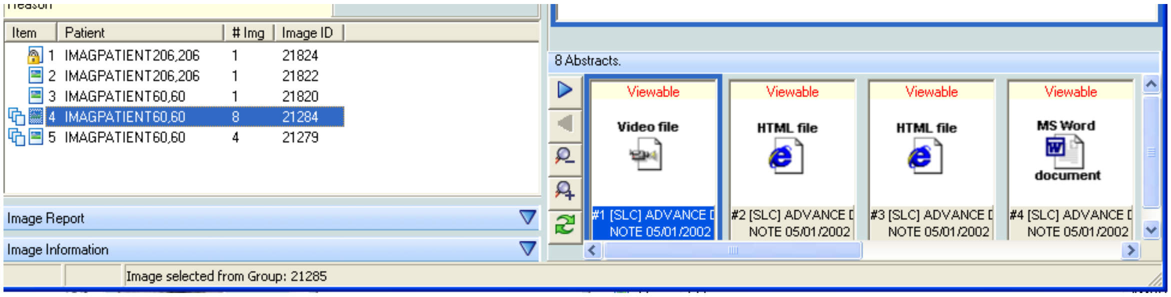
8. Select the **Reason for Status Change.**

   The Image List is updated with the icons. When a refresh of the Image List occurs, the image will have the icon next to it.

Performing QA Review on a Single Image within a Group

When a group of images is selected in the QA Review window:

- the number of images in that group are indicated by the number in the # Img column, and
- all the images in that group are shown in the bottom right portion of the window



Item	Patient	# Img	Image ID
1	IMAGPATIENT206,206	1	21824
2	IMAGPATIENT206,206	1	21822
3	IMAGPATIENT60,60	1	21820
4	IMAGPATIENT60,60	8	21284
5	IMAGPATIENT60,60	4	21279

8 Abstracts.

Viewable	Viewable	Viewable	Viewable
Video file	HTML file	HTML file	MS Word document
#1 [SLC] ADVANCE D NOTE 05/01/2002	#2 [SLC] ADVANCE D NOTE 05/01/2002	#3 [SLC] ADVANCE D NOTE 05/01/2002	#4 [SLC] ADVANCE D NOTE 05/01/2002

Image selected from Group: 21285

To change the status of an image within the group:

1. Select an image by clicking the abstract at the bottom right in the QA Review window
2. Click **QA Reviewed** on the left, or in the main menu
3. Select **Image Status| QA Reviewed**
4. To mark an image as "Needs Review" select **Image Status| Needs Review** from the main menu.

Images with Incorrect Index Values

If an image does not meet the QA Review requirements due to incorrect index values, you can edit the image index values using the Image Index Edit utility explained in the chapter *Editing the Image Index Entries* . After correcting the index values for the image so that it meets the QA review requirements, you can mark the image as **QA Reviewed**.

Running the QA Review Report

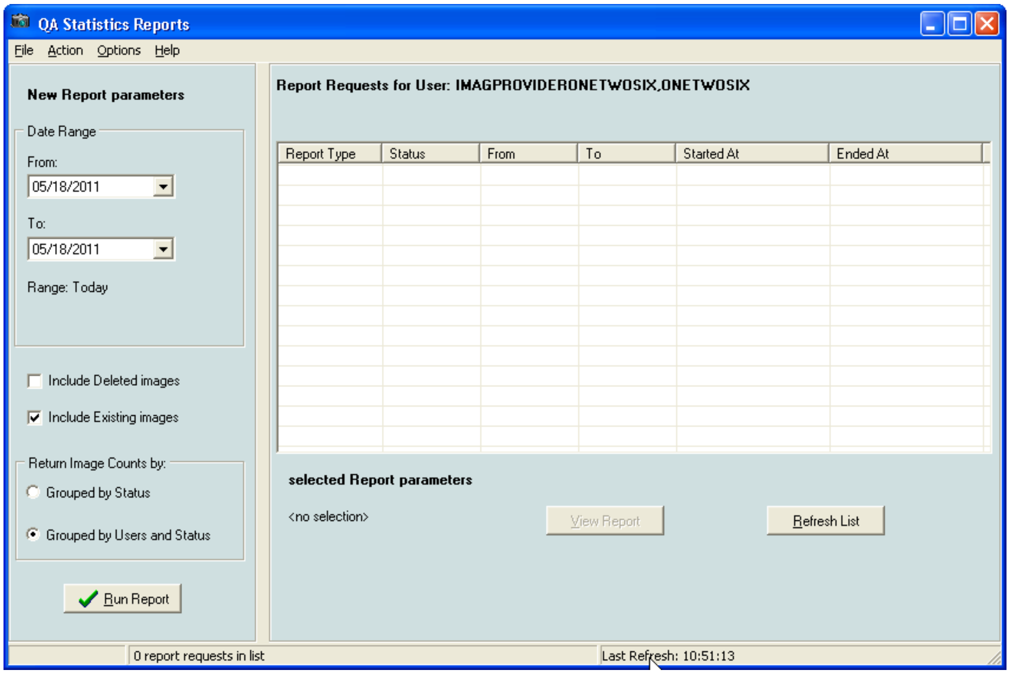
Note: you must have MAG SYSTEM, MAG EDIT or MAG QA REVIEW security keys to run the QA Review Report.

The QA Review Report returns reports based on the search criteria entered in the QA Statistics Report window and contains the following information:

- Image counts by users and image status. It also returns the QA Review Status of images an dQA Review percentages for the selected date range.
- Images captured by each user in the selected date range.
- Number of image entries per each image status.
- Number of multi-page images (in the pages column).
- Percentage of captured images that have been marked as QA Reviewed for the selected date range.

To run the QA Review Report:

1. Do either of the following:
    - In the VistA Imaging Display main window, click **Utilities| QA Review Report**
    - In the Image list window, click **Utilities| QA Review Report**


QA Statistics Reports
File
Action
Options
Help
New Report parameters
Date Range
Report Type
Status
From
To
Started At
Ended At
selected Report parameters
View Report
Refresh List
Return Image Counts by:
Run Report

Report Requests for User: IMAGPROVIDERONETWOSIX,ONETWOSIX

From: 05/18/2011

To: 05/18/2011

Range: Today

☐ Include Deleted images

☑ Include Existing images

○ Grouped by Status

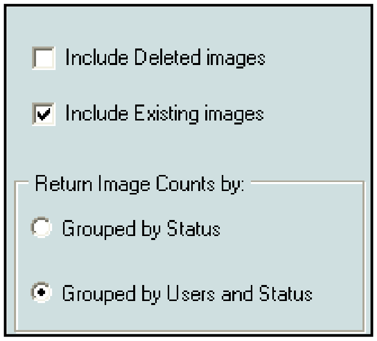
● Grouped by Users and Status

<no selection>

0 report requests in list

Last Refresh: 10:51:13

2. In the QA Statistics Report window, select the items you want included in the report. You can choose:
    - Date range
    - Deleted images
    - Existing images
    - Run reports by status
    - Run reports by users and status



☐ Include Deleted images

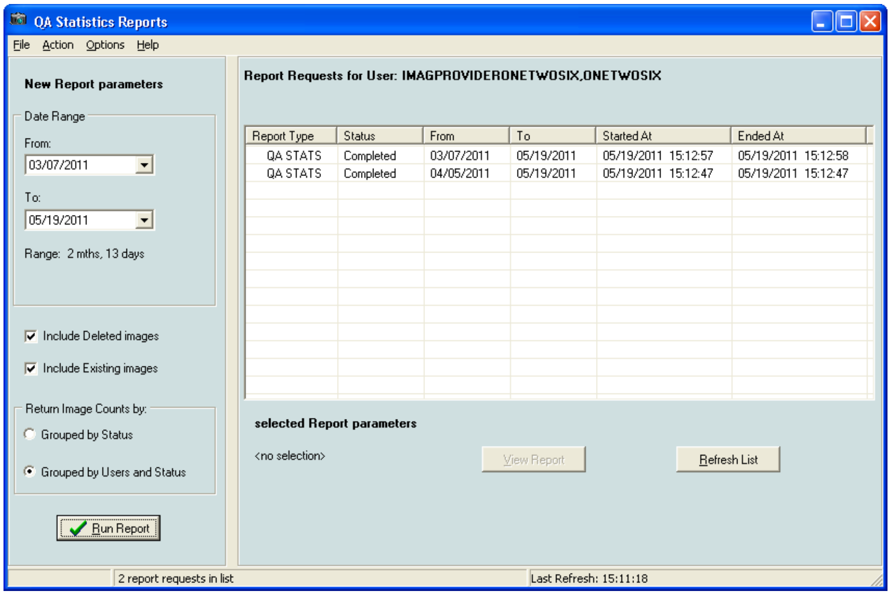
☑ Include Existing images

Return Image Counts by:

○ Grouped by Status

● Grouped by Users and Status

3. Click Run Report. The new reports will be listed in the QA Statistics Report window.



New Report parameters

Date Range

From: 03/07/2011

To: 05/19/2011

Range: 2 mths, 13 days

☑ Include Deleted images

☑ Include Existing images

Return Image Counts by:

○ Grouped by Status

● Grouped by Users and Status

Report Requests for User: IMAGPROVIDERONETWOSIX,ONETWOSIX

Report Type	Status	From	To	Started At	Ended At
QA STATS	Completed	03/07/2011	05/19/2011	05/19/2011 15:12:57	05/19/2011 15:12:58
QA STATS	Completed	04/05/2011	05/19/2011	05/19/2011 15:12:47	05/19/2011 15:12:47

selected Report parameters

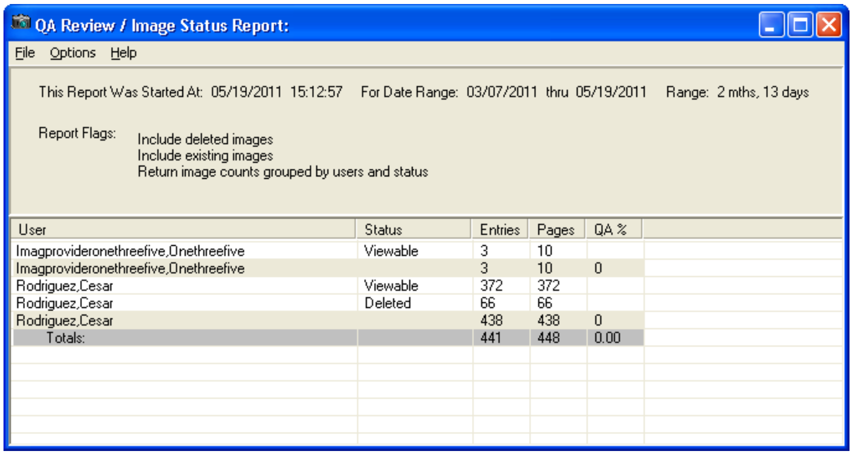
<no selection>

2 report requests in list

Last Refresh: 15:11:18

4. To open the desired report:

    - Double-click the report column, or
    - Select the report and click the **View Report** button under the list of reports.



This Report Was Started At: 05/19/2011 15:12:57 For Date Range: 03/07/2011 thru 05/19/2011 Range: 2 mths, 13 days

Report Flags:
Include deleted images
Include existing images
Return image counts grouped by users and status

User	Status	Entries	Pages	QA %
Imagprovideronethreefive,Onethreefive	Viewable	3	10	
Imagprovideronethreefive,Onethreefive		3	10	0
Rodriguez,Cesar	Viewable	372	372	
Rodriguez,Cesar	Deleted	66	66	
Rodriguez,Cesar		438	438	0
Totals:		441	448	0.00

Menu Bar in the Status / Verification Report Window

File Menu

Menu Option	Description
Save As	Saves the report data as a Comma Separated Value file.
Open in Spreadsheet	Saves the file in a CSV Format and also open in MS Excel.
Exit	Closes the window.

Options Menu

Menu Option	Description
Re-Run Report	Needs to be selected if report parameters are changed.
Include deleted images	When selected, the report includes the deleted images counts.
Include existing images	When selected, the report includes the existing images counts.
Return image counts grouped by status	Groups the image counts by status.
Return Image counts grouped by users and status	Groups the image counts by status, separated by user.
Select Date Range	Enables you to select a different data range.

Menu Option	Description
Active Forms	Opens a window that lists all the active forms in the application. You can easily switch to a form by selecting if from the list
Stay on Top	Keeps the QA Review report open on top of the active windows

Help Menu

Menu Option	Description
Image Reports	Opens the help topic on Image reports.

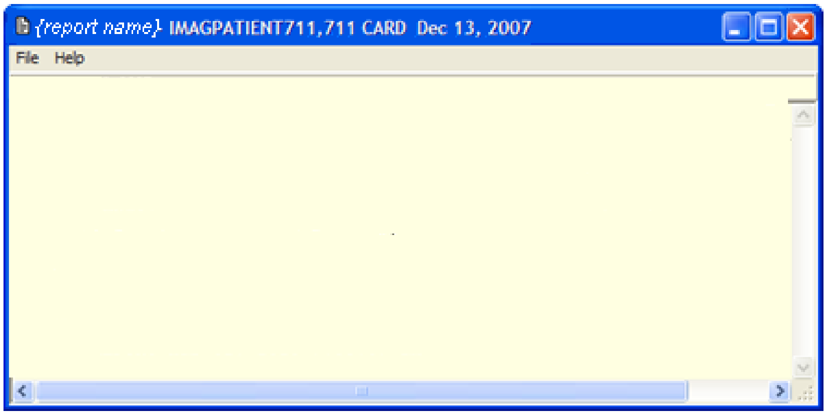
Displaying Reports

You can display reports in two ways:

- By using the Reports menu on the menu bar in the Image List window. The reports that are available are the:
    - Patient Profile
    - Health Summary (select one from the Health Summary window)
    - Discharge Summary (select one from the Discharge Summaries window)
- By right-clicking in any VistA Imaging window that displays images, abstracts, lists of images or list of reports, and selecting **Image Report**. When an Image Report is viewed it is added to the Reports menu. The list of Image Reports shown in the Reports menu is cleared after a patient change.

Report Window

The report window dynamically displays all image reports and patient reports.



Menu Bar in the Report Window

File Menu

Menu Option	Description
New Report Window	Open a new report window to view multiple reports at the same time. Reports will overwrite each other if more than one is opened in the same window.
Font	Opens the Font window. Enables you to strikeout or underline text and change the font, font style, size, script, and color.
Print	Opens the Print window.

Menu Option	Description
Print Setup	Opens the Print Setup window.
Exit	Closes the report window.

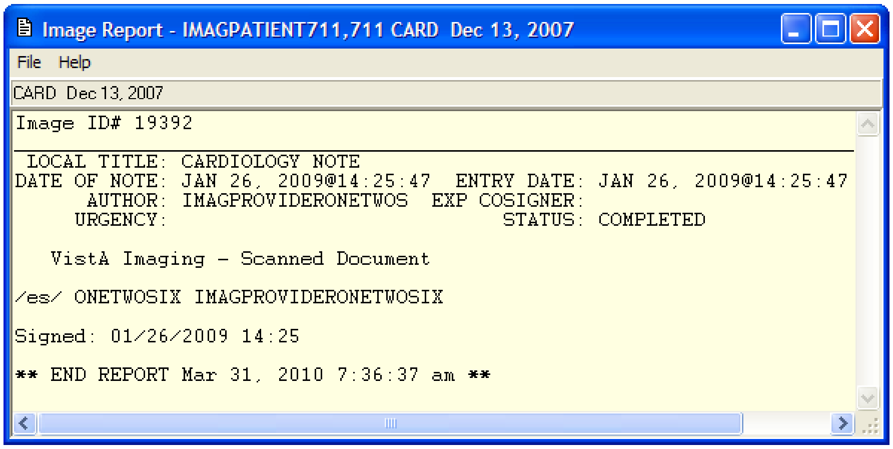
Help Menu

Menu Option	Description
Image Reports	Displays the online help for viewing associated image reports.

Image Report

1. From the Image List, Tree View or Abstracts window, right-click an image row or abstract to display the popup menu.

2. Select the Image Report from the menu.
   The Image report contains the long description for the image followed by the clinical report. If a report is not available a No Report Available dialog is shown.

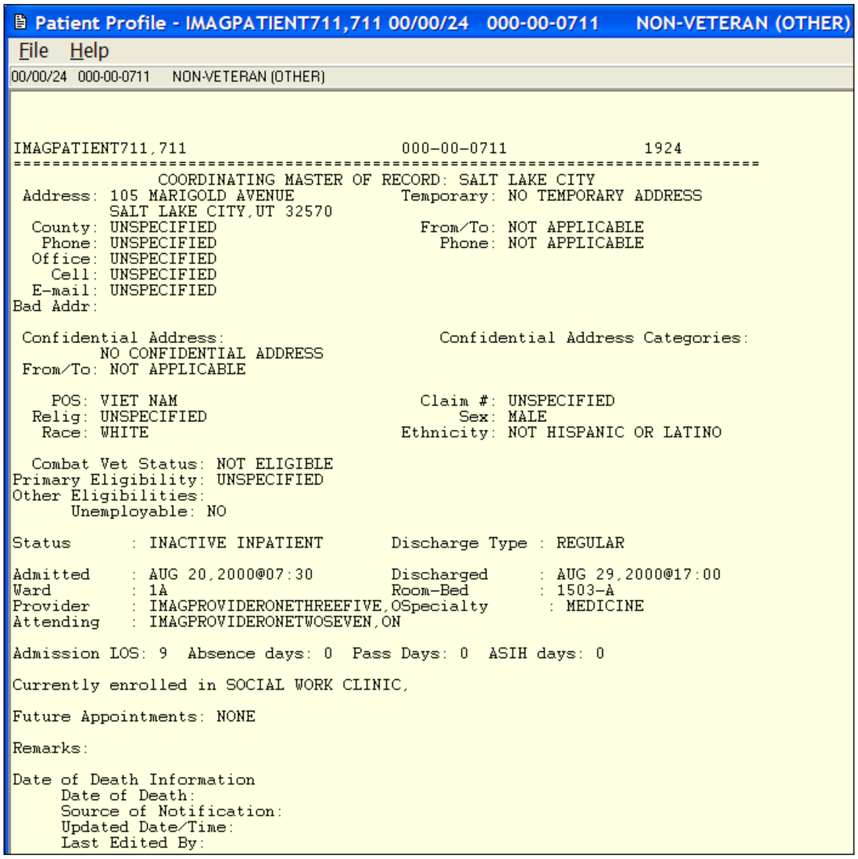


```
Image ID# 19392
________________________________________________________________________
 LOCAL TITLE: CARDIOLOGY NOTE
DATE OF NOTE: JAN 26, 2009@14:25:47  ENTRY DATE: JAN 26, 2009@14:25:47
      AUTHOR: IMAGPROVIDERONETWOS  EXP COSIGNER:
     URGENCY:                            STATUS: COMPLETED

   VistA Imaging - Scanned Document

/es/ ONETWOSIX IMAGPROVIDERONETWOSIX

Signed: 01/26/2009 14:25

** END REPORT Mar 31, 2010 7:36:37 am **
```

3. On the File menu, select any option to change the font, set printer options, and to print.

Patient Profile

1. From the VistA Imaging Display main window or the Image List window, choose **Reports | Patient Profile** from the menu bar to display the report.


Patient Profile - IMAGPATIENT711,711 00/00/24 000-00-0711 NON-VETERAN (OTHER)
File
Help

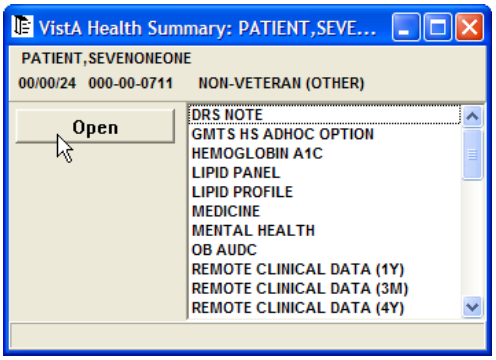
00/00/24 000-00-0711 NON-VETERAN (OTHER)

```
IMAGPATIENT711,711                      000-00-0711              1924
=============================================================================
               COORDINATING MASTER OF RECORD: SALT LAKE CITY
 Address: 105 MARIGOLD AVENUE           Temporary: NO TEMPORARY ADDRESS
          SALT LAKE CITY,UT 32570
  County: UNSPECIFIED                     From/To: NOT APPLICABLE
   Phone: UNSPECIFIED                       Phone: NOT APPLICABLE
  Office: UNSPECIFIED
    Cell: UNSPECIFIED
  E-mail: UNSPECIFIED
Bad Addr:

 Confidential Address:                      Confidential Address Categories:
         NO CONFIDENTIAL ADDRESS
 From/To: NOT APPLICABLE

    POS: VIET NAM                         Claim #: UNSPECIFIED
  Relig: UNSPECIFIED                          Sex: MALE
   Race: WHITE                          Ethnicity: NOT HISPANIC OR LATINO

  Combat Vet Status: NOT ELIGIBLE
Primary Eligibility: UNSPECIFIED
Other Eligibilities:
      Unemployable: NO

Status       : INACTIVE INPATIENT       Discharge Type : REGULAR

Admitted     : AUG 20,2000@07:30        Discharged     : AUG 29,2000@17:00
Ward         : 1A                       Room-Bed       : 1503-A
Provider     : IMAGPROVIDERONETHREEFIVE,OSpecialty      : MEDICINE
Attending    : IMAGPROVIDERONETWOSEVEN,ON

Admission LOS: 9  Absence days: 0  Pass Days: 0  ASIH days: 0

Currently enrolled in SOCIAL WORK CLINIC,

Future Appointments: NONE

Remarks:

Date of Death Information
     Date of Death:
     Source of Notification:
     Updated Date/Time:
     Last Edited By:
```

2. On the File menu, select any option to change the font, set printer options, and print.

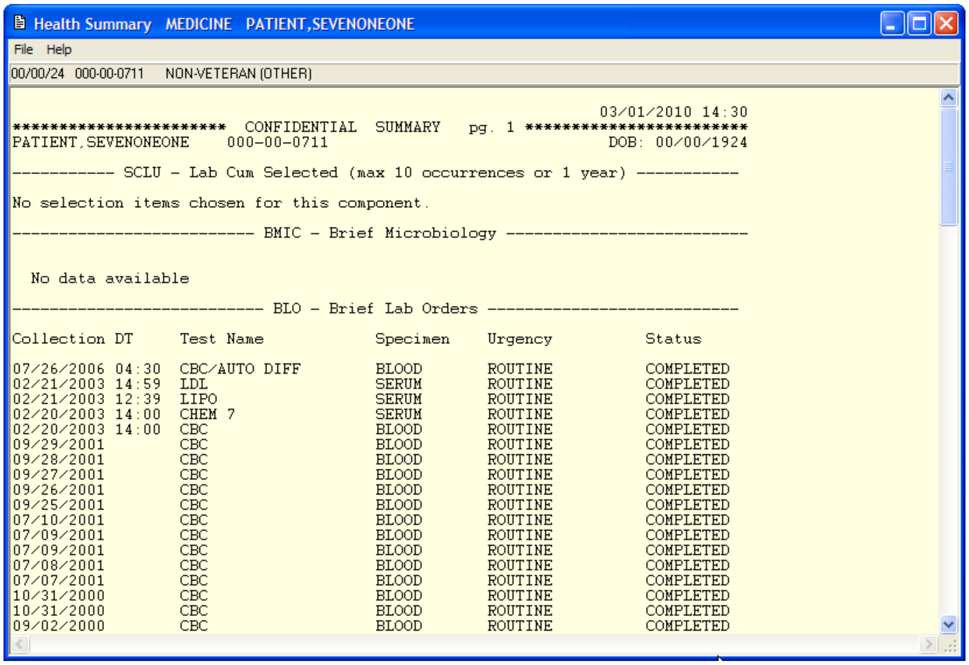
Health Summary

1. From the VistA Imaging Display main window or the Image List window, choose **Reports | Health Summary** from the menu bar.


VistA Health Summary: PATIENT,SEVE...
Open
DRS NOTE
GMTS HS ADHOC OPTION
HEMOGLOBIN A1C
LIPID PANEL
LIPID PROFILE
MEDICINE
MENTAL HEALTH
OB AUDC
REMOTE CLINICAL DATA (1Y)
REMOTE CLINICAL DATA (3M)
REMOTE CLINICAL DATA (4Y)

PATIENT,SEVENONEONE
00/00/24 000-00-0711 NON-VETERAN (OTHER)

2. Select a **Health Summary report** from the list and click the **Open** button. The report is displayed.

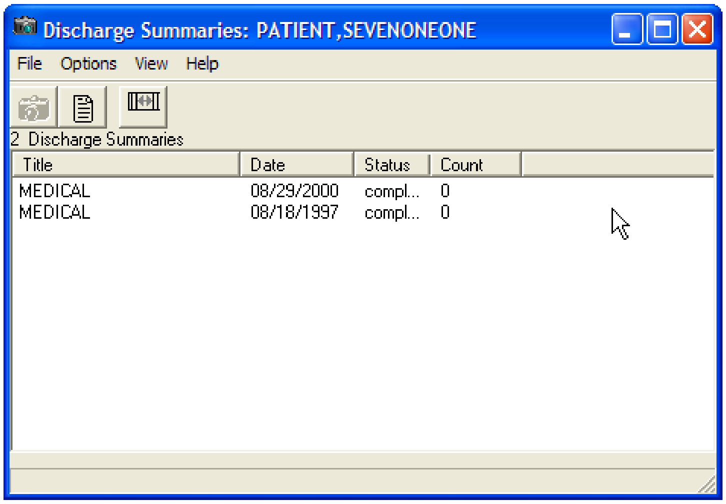

Health Summary MEDICINE PATIENT,SEVENONEONE
File
Help
00/00/24 000-00-0711 NON-VETERAN (OTHER)

```
                                                               03/01/2010 14:30
***********************  CONFIDENTIAL  SUMMARY   pg. 1 ************************
PATIENT,SEVENONEONE    000-00-0711                                      DOB: 00/00/1924

----------- SCLU - Lab Cum Selected (max 10 occurrences or 1 year) -----------

No selection items chosen for this component.

-------------------------- BMIC - Brief Microbiology --------------------------


  No data available

--------------------------- BLO - Brief Lab Orders ---------------------------

Collection DT     Test Name            Specimen    Urgency          Status

07/26/2006 04:30  CBC/AUTO DIFF        BLOOD       ROUTINE          COMPLETED
02/21/2003 14:59  LDL                  SERUM       ROUTINE          COMPLETED
02/21/2003 12:39  LIPO                 SERUM       ROUTINE          COMPLETED
02/20/2003 14:00  CHEM 7               SERUM       ROUTINE          COMPLETED
02/20/2003 14:00  CBC                  BLOOD       ROUTINE          COMPLETED
09/29/2001        CBC                  BLOOD       ROUTINE          COMPLETED
09/28/2001        CBC                  BLOOD       ROUTINE          COMPLETED
09/27/2001        CBC                  BLOOD       ROUTINE          COMPLETED
09/26/2001        CBC                  BLOOD       ROUTINE          COMPLETED
09/25/2001        CBC                  BLOOD       ROUTINE          COMPLETED
07/10/2001        CBC                  BLOOD       ROUTINE          COMPLETED
07/09/2001        CBC                  BLOOD       ROUTINE          COMPLETED
07/09/2001        CBC                  BLOOD       ROUTINE          COMPLETED
07/08/2001        CBC                  BLOOD       ROUTINE          COMPLETED
07/07/2001        CBC                  BLOOD       ROUTINE          COMPLETED
10/31/2000        CBC                  BLOOD       ROUTINE          COMPLETED
10/31/2000        CBC                  BLOOD       ROUTINE          COMPLETED
09/02/2000        CBC                  BLOOD       ROUTINE          COMPLETED
```

3. On the File menu, select any option to change the font, set printer options, and print.

Discharge Summary

1. From the VistA Imaging Display main window or the Image List window, choose **Reports | Discharge Summary** from the menu bar.
   The Discharge Summary report is displayed.

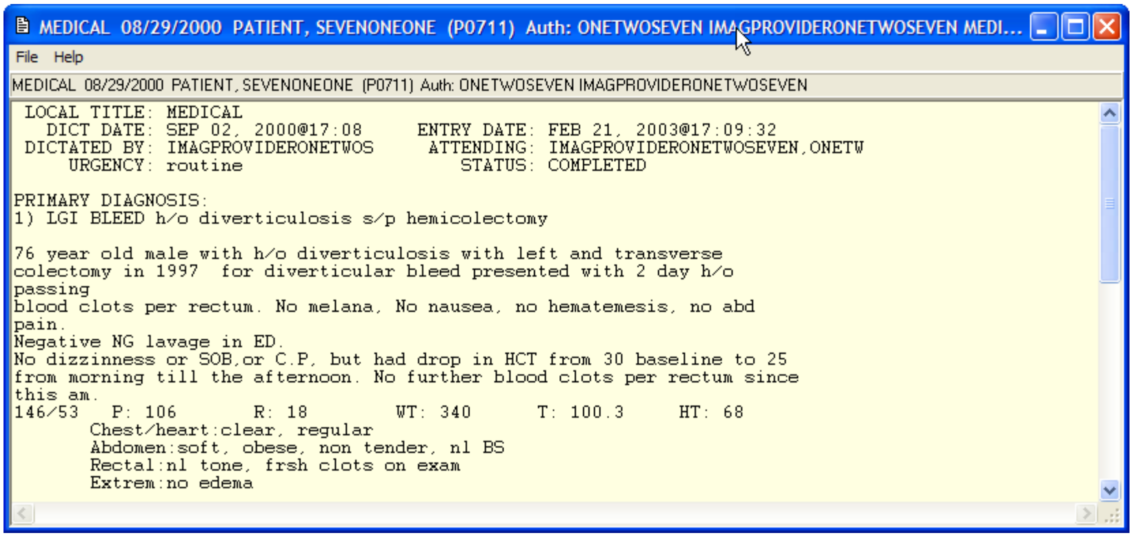


2 Discharge Summaries

Title	Date	Status	Count
MEDICAL	08/29/2000	compl...	0
MEDICAL	08/18/1997	compl...	0

2. Click the **Reset Column Width** button to reset the column widths.

3. Select the Health Summary report from the available list and click the **View Report** button. The report is displayed. If images accompany the report, you can view them by clicking the camera button in the Discharge Summaries window.


MEDICAL 08/29/2000 PATIENT, SEVENONEONE (P0711) Auth: ONETWOSEVEN IMAGPROVIDERONETWOSEVEN MEDI...
File
Help

MEDICAL 08/29/2000 PATIENT, SEVENONEONE (P0711) Auth: ONETWOSEVEN IMAGPROVIDERONETWOSEVEN

```
 LOCAL TITLE: MEDICAL
   DICT DATE: SEP 02, 2000@17:08     ENTRY DATE: FEB 21, 2003@17:09:32
 DICTATED BY: IMAGPROVIDERONETWOS     ATTENDING: IMAGPROVIDERONETWOSEVEN,ONETW
     URGENCY: routine                    STATUS: COMPLETED

PRIMARY DIAGNOSIS:
1) LGI BLEED h/o diverticulosis s/p hemicolectomy

76 year old male with h/o diverticulosis with left and transverse
colectomy in 1997  for diverticular bleed presented with 2 day h/o
passing
blood clots per rectum. No melana, No nausea, no hematemesis, no abd
pain.
Negative NG lavage in ED.
No dizzinness or SOB,or C.P, but had drop in HCT from 30 baseline to 25
from morning till the afternoon. No further blood clots per rectum since
this am.
146/53   P: 106       R: 18        WT: 340      T: 100.3     HT: 68
       Chest/heart:clear, regular
       Abdomen:soft, obese, non tender, nl BS
       Rectal:nl tone, frsh clots on exam
       Extrem:no edema
```

4. On the File menu, select any option to change the font, set printer options, and print.

Appendix A: Shortcut Key Legend

Full Resolution Viewer and Radiology Viewer

Shift+Ctrl+S	Reset Image to initial setting
Shift+Ctrl+I	Zoom In
Shift+Ctrl+O	Zoom Out
Shift+Ctrl+W	Fit Image to Width
Shift+Ctrl+A	Zoom Image to Actual Size
Shift+Ctrl+Left arrow	Scroll Left
Shift+Ctrl+Right arrow	Scroll Right
Shift+Ctrl+Up arrow	Scroll Up
Shift+Ctrl+Down arrow	Scroll Down
Shift+Ctrl+HOME	Scroll to Top Left
Shift+Ctrl+PgUp	Scroll to Top Right
Shift+Ctrl+PgDown	Scroll to Bottom Right
Shift+Ctrl+End	Scroll Bottom Left
Shift+Ctrl+J	More Contrast
Shift+Ctrl+K	Less Contrast
Shift+Ctrl+N	More Brightness
Shift+Ctrl+M	Less Brightness
Shift+Ctrl+R	Rotate Right 90 degrees

Image Viewer

Ctrl+Alt+P	Previous Page Images
Ctrl+Alt+N	Next Page Images
Ctrl+P	Previous Image
Ctrl+N	Next Image

Image List Window

Ctrl+F5	Active Control: Abstracts
Ctrl+F6	Active Control: Tree View
Ctrl+F7	Active Control: List View

Ctrl+F8	Active Control: Full Resolution

Radiology Viewer

Ctrl+P	Previous Image
Ctrl+N	Next Image
Ctrl+F	First Image
Ctrl+L	Last Image
Ctrl+C	Cine Tool Focus
Shft+Ctrl+D	More Window Value
Shft+Ctrl+F	Less Window Value
Shft+Ctrl+C	More Level Value
Shft+Ctrl+V	Less Level Value
Shft+Ctrl+Y	Start Stack Cine
Shft+Ctrl+T	Stop Stack Cine
Shft+Ctrl+G	Slow Down Stack Cine
Shft+Ctrl+H	Speed Up Stack Cine

Cine Viewer

Ctrl+C	Switch to Radiology Viewer

Abstract Windows

Ctrl+O	Smaller Abstracts
Ctrl+I	Larger Abstracts
Ctrl+Alt+P	Previous Page Abstracts
Ctrl+Alt+N	Next Page Abstracts
Ctrl+P	Previous Abstract
Ctrl+N	Next Abstract

Page Functions

Ctrl+Alt+Left Arrow	Go to First Page
Ctrl+Alt+Down Arrow	Go to Previous Page
Ctrl+Alt+Up Arrow	Go to Next Page
Ctrl+Alt+Right Arrow	Go To Last Page

Activate Windows

Ctrl+L	Image List Filters
Ctrl+M	Go to VistA Imaging Display main window
Ctrl+W	Switch to an active window
Alt+F6	Switch to the last active window

Focus in Any Window

Ctrl+T	Hide/Show Tool bar
Ctrl+R	Refresh Abstracts/Images
Ctrl+Alt+M	Open Popup Menu

Help Topics

F1	Open Help for the current control

Menu Option Access

Alt+SPACE	System menu for the window

Closing Dialog Boxes

Alt+F4	Close the Active Window

Popup Menu Shortcuts

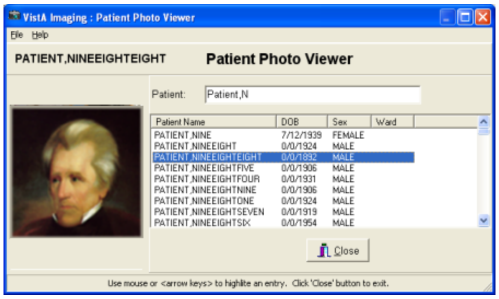
Mouse +Right-Click	Abstracts Window
Ctrl+Shift+M	Group Abstract Window Full Resolution Window Image List Window Radiology List Window Image Filter Window

Appendix B: Clinical Display Security Keys

Note: Functionality is restricted to protect VistA from unauthorized access and to comply with HIPAA Regulations.

All users of Clinical Display hold one or more security keys that correspond to their access level and the work they will perform. Each security key unlocks application functionality.

<table>
<tr><th>Security Key</th><th>Description</th></tr>
<tr><td>MAG DELETE</td><td>Enables the holder to delete images from the IMAGE file (#2005). Pointers in parent packages such as Medicine, Surgery, Lab, Radiology, and TIU are also deleted.
Note: See also <i>Appendix C: Deleting Images</i>.</td></tr>
<tr><td>MAG EDIT</td><td>Enables the holder to edit an image. Used to correct an image field when an index field is selected that is incorrect or incomplete (such as correcting a wrong specialty).
Enables the holder to access the QA Review Utility when performing quality assurance reviews of the captured images.
Note: Only the Chief of HIMS, or authorized designated personnel (i.e., VistA Imaging Coordinator or Scanning Supervisor) should be assigned this key.</td></tr>
<tr><td>MAG PAT PHOTO ONLY</td><td>Enables a user to view the patient photo only and gives the user no other functionality.



PATIENT,NINEEIGHTEIGHT Patient Photo Viewer

Patient: Patient,N

<table>
<tr><th>Patient Name</th><th>DOB</th><th>Sex</th><th>Ward</th></tr>
<tr><td>PATIENT,NINE</td><td>7/12/1939</td><td>FEMALE</td><td></td></tr>
<tr><td>PATIENT,NINEEIGHT</td><td>0/0/1924</td><td>MALE</td><td></td></tr>
<tr><td>PATIENT,NINEEIGHTEIGHT</td><td>0/0/1892</td><td>MALE</td><td></td></tr>
<tr><td>PATIENT,NINEEIGHTFIVE</td><td>0/0/1906</td><td>MALE</td><td></td></tr>
<tr><td>PATIENT,NINEEIGHTFOUR</td><td>0/0/1931</td><td>MALE</td><td></td></tr>
<tr><td>PATIENT,NINEEIGHTNINE</td><td>0/0/1906</td><td>MALE</td><td></td></tr>
<tr><td>PATIENT,NINEEIGHTONE</td><td>0/0/1924</td><td>MALE</td><td></td></tr>
<tr><td>PATIENT,NINEEIGHTSEVEN</td><td>0/0/1919</td><td>MALE</td><td></td></tr>
<tr><td>PATIENT,NINEEIGHTSIX</td><td>0/0/1954</td><td>MALE</td><td></td></tr>
</table>

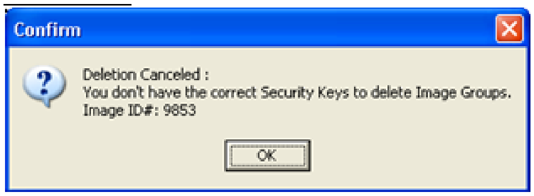
Use mouse or <arrow keys> to highlite an entry. Click 'Close' button to exit.

For details on how to perform a patient lookup, see <i>Selecting a Patient</i>.</td></tr>
<tr><td>MAG PREFETCH</td><td>Enables the holder to "prefetch" or queue all images for a patient. This means that all images for a patient that are on the jukebox will be copied from the jukebox to the magnetic server cache.</td></tr>
<tr><td>MAG QA REVIEW</td><td>User can access QA Review and QA Review Report from Clinical Display Utilities Menu.</td></tr>
<tr><td>MAG RAD SETTINGS</td><td>Enables the holder to edit the CT Presets in the Clinical Imaging Display Radiology Viewer window.</td></tr>
<tr><td>MAG REVIEW NCAT</td><td>User can view NCAT Report.</td></tr>
</table>

Security Key	**Description**
MAG ROI	User can print (single or multiple) images or copy images without having to enter an electronic signature. This key should only be assigned to the HIMS Release of Information Officer.
MAG SYSTEM	Enables the holder to modify site parameters via the Background Processor or to modify workstation parameters via the MAGSYS application. Also enables the display of DICOM header data for radiology images on Clinical Display workstations. **Note**: This is for personnel managing VistA Imaging Systems.
MAG VIEW DOD IMAGES	In Patch 72 and 93 versions of Clinical Display, users must have this key to display DoD images. In newer versions of Clinical Display, this key is not checked.
MAGDISP ADMIN	Enables the holder to display administrative images/documents.
MAGDISP CLIN	Enables the holder to display clinical images/documents.

Appendix C: Deleting Images

Note: You must hold the MAG DELETE security key. If you do not hold the security key and you attempt to select the Image Delete menu option, the following message will be displayed instead of the Image Delete window.



Deletion Canceled :
You don't have the correct Security Keys to delete Image Groups.
Image ID#: 9853

Note: Image deletion can occur on a single image or a group of images.

When an Image Is Deleted

The system performs the following tasks when you delete an image:

- The name of the user, reason for deletion and the date/time are saved to the IMAGE file (#2005).
- The entry in the IMAGE file (#2005) is copied to IMAGE AUDIT file (#2005.1) The entry in IMAGE file (#2005) is then deleted.
- If the image was associated with a clinical report, i.e. Lab or Radiology, then the Image Pointer is deleted from the associated file.
- When an image is deleted the Image List is updated with the ☒ icon in the item column. Refreshing the Image List removes the deleted images from the list.

Deletion of the image from the Image Share is performed by the Background Processor, not by each individual workstation, so that the actual deletion of the image from the Image Share might be delayed.

Image Delete Window

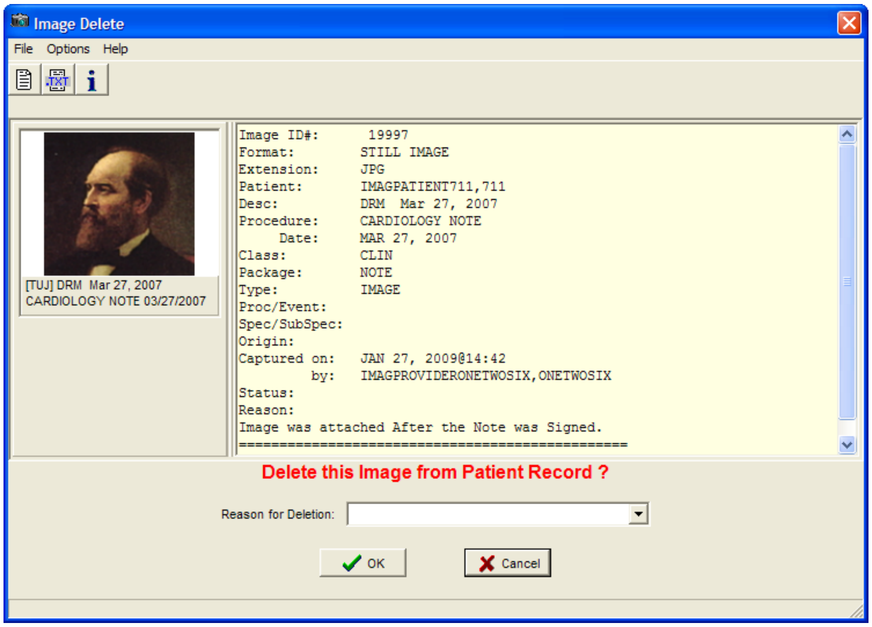


Image Delete
File
Options
Help
[TUJ] DRM Mar 27, 2007
CARDIOLOGY NOTE 03/27/2007
Delete this Image from Patient Record ?
Reason for Deletion:
OK
Cancel

```
Image ID#:       19997
Format:         STILL IMAGE
Extension:      JPG
Patient:        IMAGPATIENT711,711
Desc:           DRM  Mar 27, 2007
Procedure:      CARDIOLOGY NOTE
     Date:      MAR 27, 2007
Class:          CLIN
Package:        NOTE
Type:           IMAGE
Proc/Event:
Spec/SubSpec:
Origin:
Captured on:    JAN 27, 2009@14:42
         by:    IMAGPROVIDERONETWOSIX,ONETWOSIX
Status:
Reason:
Image was attached After the Note was Signed.
================================================
```

Menu Bar in the Image Delete Window

File Menu

Menu Option	Description
Delete	Deletes the image if a Reason for Deletion has been entered. If no Reason for Deletion has been entered a Confirm panel is displayed stating that a reason is needed for deleting the image.
Exit	Cancels and closes the Image Delete window and displays a Cancellation confirmation.

Options Menu

Menu Option	Description
Image Report	Displays the Image Report in the text area of the Image Delete window.
Image Text File	Displays the Image Text File in the text area of the Image Delete window.
Image Information	Displays the Image Information in the text area of the Image Delete window.
Clear	Clears the text area in the text area of the Image Delete window.

Help Menu

Menu Option	Description
Image Delete Window	Displays the VistA Imaging: Image Delete help file.

Tool Bar in the Image Delete Window

Button	Description
Display the Report associated with the image in the text area 🗎.	Displays the Image Report in the text area of the Image Delete window.
Display the Image .Text file in the text area .TXT.	Displays the Image Text File in the text area of the Image Delete window.
Display the Image Information in the text area i.	Displays the Image Information in the text area of the Image Delete window.

Deleting Single Images

The image abstract is displayed in the upper left corner when a single image is selected. Image information is displayed in the text pane positioned in the upper right corner. The associated report can be displayed in the text pane.

1. Right-click the image in the Abstracts window or the Image List window from the Image List or Tree View.
2. Select Image Delete in the popup menu.
   The Image Delete window opens as shown. You can look at the image report, .TXT information, or image Information.
3. To view the Image Report in the text pane, choose **Options | Image Report** or click the **Display the Report associated with the image in the text area** button 🗎.
4. To view the associated Image Text File in the text pane, choose **Options | Image Text File** or click the **Display the Image .Text file in the text area** button .TXT.
5. To view information about the image in the text pane, choose **Options | Image Information** or click the **Display the Image Information in the text area** button i.

6. To view the group abstracts for the image, click the **Open the Abstracts window** button ▦ button.

7. To remove all information from the text pane, choose **Options | Clear**.

8. Select a Reason for Deletion from the drop down list on the window and click OK to delete the image, or click Cancel to cancel the deletion.

9. Confirm your choice to either delete or cancel.

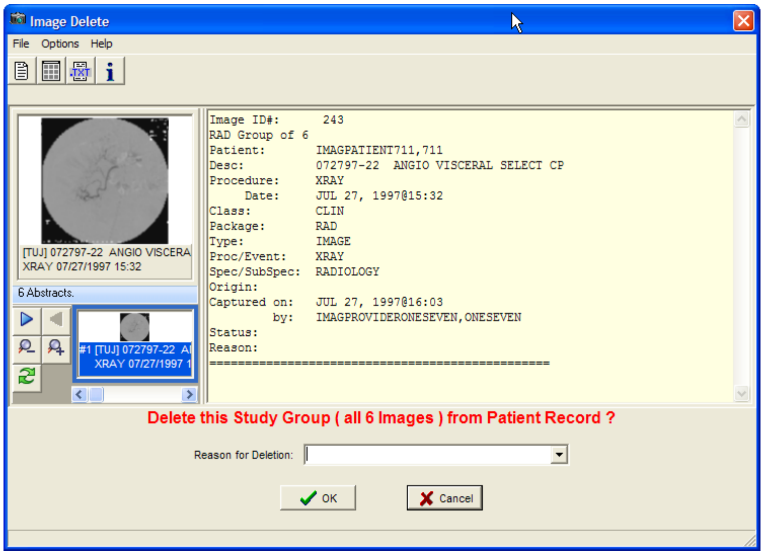
10. When you are finished, choose **File | Exit** from the menu bar.

Deleting Image Groups

The abstracts for the images in the group are displayed under the group abstract to the left of the window. The number of images contained in the group is displayed in the delete prompt.

1. Right click the image group in the Abstracts window or the from the Image List window.

2. Select **Image Group Delete** from the popup menu.
   The Image Delete window opens as shown below.



```
Image ID#:      243
RAD Group of 6
Patient:        IMAGPATIENT711,711
Desc:           072797-22  ANGIO VISCERAL SELECT CP
Procedure:      XRAY
     Date:      JUL 27, 1997@15:32
Class:          CLIN
Package:        RAD
Type:           IMAGE
Proc/Event:     XRAY
Spec/SubSpec:   RADIOLOGY
Origin:
Captured on:    JUL 27, 1997@16:03
         by:    IMAGPROVIDERONESEVEN,ONESEVEN
Status:
Reason:
================================================
```

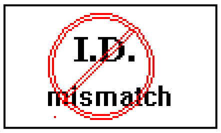
Delete this Study Group (all 6 Images) from Patient Record ?

Reason for Deletion: ▾

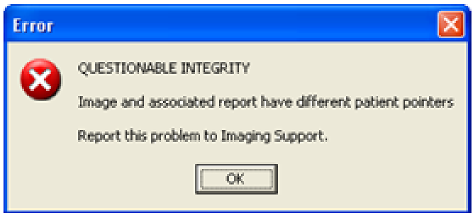
3. Follow the steps in the Deleting Single Images section.

Deleting Images with Questionable Integrity (QI Issues)

Abstracts of images with QI issues are not displayed. An "ID mismatch" icon is displayed instead, as shown in the example. When you select this icon, the image and associated report are not displayed. Instead, an error message describing the QI issue is shown.



An Error message describing the QI issue is displayed instead.

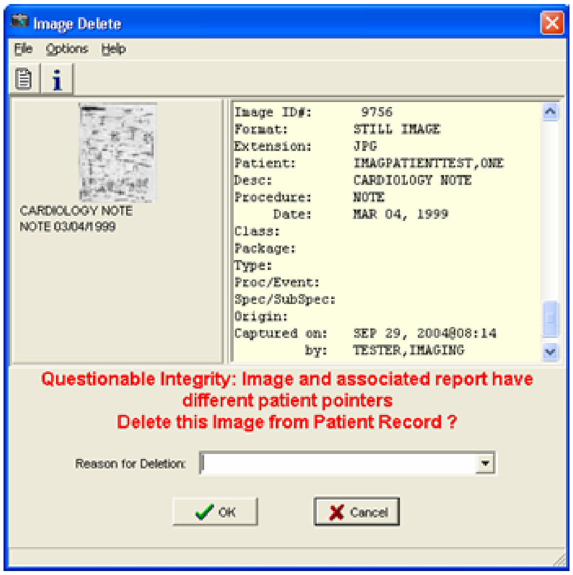


QUESTIONABLE INTEGRITY

Image and associated report have different patient pointers

Report this problem to Imaging Support.

In the Image Delete window the QI image abstract and the associated report are displayed. The description of the issue is displayed in the delete prompt and you can view the image abstract, image information, and image report before deleting the image.



CARDIOLOGY NOTE
NOTE 03/04/1999

```
Image ID#:       9756
Format:         STILL IMAGE
Extension:      JPG
Patient:        IMAGPATIENTTEST,ONE
Desc:           CARDIOLOGY NOTE
Procedure:      NOTE
     Date:      MAR 04, 1999
Class:
Package:
Type:
Proc/Event:
Spec/SubSpec:
Origin:
Captured on:    SEP 29, 2004@08:14
         by:    TESTER,IMAGING
```

Questionable Integrity: Image and associated report have different patient pointers
Delete this Image from Patient Record ?

Reason for Deletion:

Appendix D: Clinical Context Object Workgroup

CCOW Overview

Clinical Context Object Workgroup (CCOW) is an HL7 standard for clinical context management which synchronizes applications so that they are mutually aware of common elements. Clinical Display workstation is CCOW compliant and uses this standard to interface with CPRS, VistA Imaging TeleReader and other CCOW compliant applications.

When a clinician uses a CCOW compliant application (such as CPRS) and starts another CCOW compliant application (such as Clinical Display) the second application will automatically sign on with the same user credentials. When the clinician selects a patient in CPRS, it is also selected in Clinical Display.

When the QA Review window is open in Clinical Display, patient context is suspended. Patient context can also be suspended manually in both the Clinical Display and CPRS applications. To learn more about the Clinical Context Object Workgroup follow this link: http://vista.med.va.gov/bcma/software/gui/help/general_topics/ccow_about.htm

Patient Context in Clinical Display

Clinical Display enables you to show context, suspend context, resume context, or resume setting the context for the patient. If patient context is suspended, it must be resumed before changing patients if you want to synchronize patients. In the Image List | Context menu, you can select:

Menu Option	**Description**
Show Context	Shows the Context.
Suspend Context	Breaks the CCOW connection with CPRS which you can do manually through the menu option, or is done by the application while using certain utilities which displays images for multiple patients such as the QA Review Utility.
Resume Get Context	Gets the current Context.
Resume Set Context	Resumes setting the Context.

Clinical Display uses the following icons throughout the application.

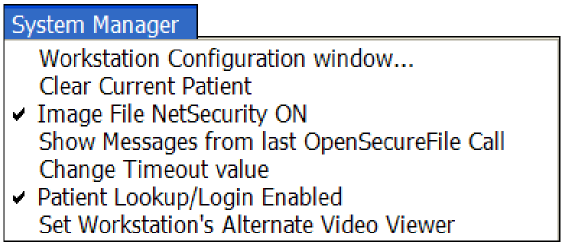
👤	Application is in Context
👥	Application is not in Context
👤?	Context is changing

Appendix E: For System Managers

Note: System Managers in Clinical Display must hold the **MAG SYSTEM** security key and have access to all of the Clinical Display functionality in addition to system manager functions.

System Manager Menu Options

In the VistA Imaging Display main window and the Image List window, the System Manager menu on the menu bar is enabled if you hold the MAG SYSTEM security key.

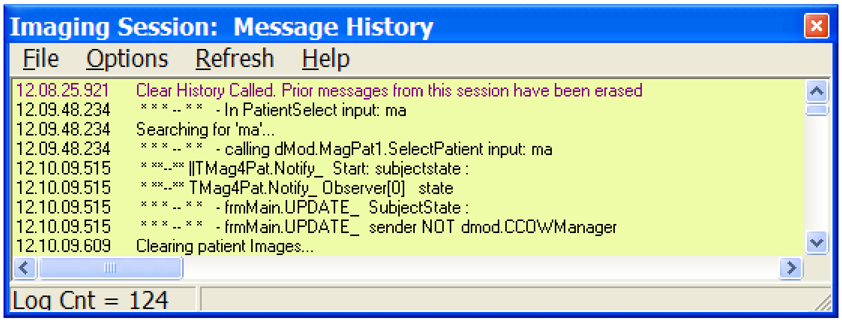

System Manager
Workstation Configuration window...
Clear Current Patient
✔ Image File NetSecurity ON
Show Messages from last OpenSecureFile Call
Change Timeout value
✔ Patient Lookup/Login Enabled
Set Workstation's Alternate Video Viewer

Menu Option	**Description**
Workstation Configuration Window	Enables the system manager to set the workstation configuration in the MAG308.INI file.
Clear Current Patient	If a patient is selected, this option clears the patient's data from display and readies the application for a new patient.
Image File Net Security ON	Turns ON/OFF Imaging Network security: When Imaging Network security is ON, the Imaging system makes a connection to the Imaging Network Server as a user who is defined in the Imaging Site Parameters file and breaks the connection when the Image is opened or fails to open. When Imaging Network Security is off, Imaging makes no attempt to connect to a network directory. The workstation must have a drive mapped to the Network directory to be able to capture images or the user who is logged in to the workstation must have access to the Imaging Network server. (intended for debugging purposes)
Show Messages from last OpenSecureFile Call	Each time an Image is opened, Imaging Network Security is used to connect and disconnect from the Image Network Server. If you select this option, all messages generated from the last call to open image(s) are added to the Imaging Session Message History window. See *Message History Window* below.
Change Timeout Value	Each workstation times out after a specific time of inaction. The timeout value is set in the IMAGE SITE PARAMETERS File. This setting can be changed for individual workstations to override the IMAGE SITE PARAMETERS value. The changed setting will remain in effect until it is changed again. If the setting is changed to '0' (zero) then the entry from the IMAGE SITE PARAMETERS file will be used as the timeout.

Menu Option	Description
Patient Lookup/Login Enabled	When VistA Imaging is opened from the CPRS 'Tools' menu, the Patient Lookup and Login functions are disabled in the VistA Imaging application. This option enables you to enable/disable the functions. (intended for debugging purposes)
Set Workstation's Alternate Video Viewer	Opens the Windows Open File dialog box to select a video file viewer to use for all video files. VistA Imaging displays video files (AVI files are the only video files supported in V. 3.0) in the VistA Imaging Video Display window by default. For an alternate video viewer to be used for video files, the 'Use Alternate Video Player' radio button must be selected in the Video File Options window. If ‘Use Alternate Video Player' is selected, all video files will be opened in the video file viewer that is associated with files of type '*.AVI' defined through the operation system. You can change the alternate video file viewer for the workstation to a video file viewer selected in the Open File dialog box.

Message History Window

The Message History window is used to view system messages for debugging purposes.



```
12.08.25.921    Clear History Called. Prior messages from this session have been erased
12.09.48.234     * * * -- * *   - In PatientSelect input: ma
12.09.48.234    Searching for 'ma'...
12.09.48.234     * * * -- * *   - calling dMod.MagPat1.SelectPatient input: ma
12.10.09.515     * **--** ||TMag4Pat.Notify_  Start: subjectstate :
12.10.09.515     * **--** TMag4Pat.Notify_ Observer[0]   state
12.10.09.515     * * * -- * *   - frmMain.UPDATE_  SubjectState :
12.10.09.515     * * * -- * *   - frmMain.UPDATE_  sender NOT dmod.CCOWManager
12.10.09.609    Clearing patient Images...
```

Log Cnt = 124

Viewing Messages

1. Open the Message History window by performing any of the following steps:

   - In the VistA Imaging Display main window or Image List window, choose **System Manager | Show Messages from last Open Secure File Call** from the menu bar.

   - In the VistA Imaging Display main window, click the **message window button** in the lower left corner of the window.

   - In the Image List window, choose **Options | Message Log** from the menu bar.

2. To display user messages in the Message History window, choose **Options | System Messages** from the menu.

   If **System Messages** is not selected, user messages are displayed in the window.

3. To display system messages, select **System Messages** again to select it.

4. To refresh the information layout, choose **Refresh | Refresh Display**.

5. To automatically update the message in real time, choose **Refresh | AutoUpdate**.

   Reselecting Auto Update clears the option and stops the automatic update.

6. To format the display of the messages, choose **Options** and **Word Wrap**, **Font**, **Background Color.**

7. To keep the window open on top of all open Clinical Display windows, select **Stay on Top**.

8. To find text, choose **Options | Find Text**, enter the words in the Find window, and select the **Find Text** button.

9. To remove all entries in the Message History log, choose **Options | Clear history**.

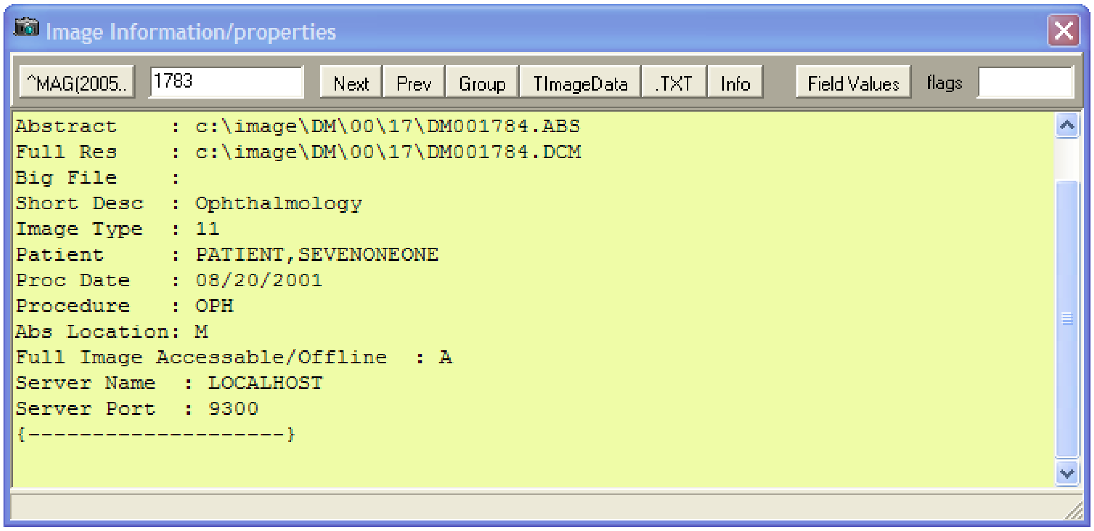
10. To close the window, choose **File | Exit**.

Image Information Advanced

Image Information Advanced displays more detail than standard information displayed in the *Image Information Window*, which is available to all users.

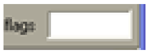
Image Information/Properties Window

In the sample window, the Image Information/properties window shows detailed data about an image or image groups.



```
Abstract     : c:\image\DM\00\17\DM001784.ABS
Full Res     : c:\image\DM\00\17\DM001784.DCM
Big File     :
Short Desc   : Ophthalmology
Image Type   : 11
Patient      : PATIENT,SEVENONEONE
Proc Date    : 08/20/2001
Procedure    : OPH
Abs Location: M
Full Image Accessable/Offline   : A
Server Name   : LOCALHOST
Server Port   : 9300
{--------------------}
```

Tool Bar in the Image Information/Properties Window

	Shows the internal information stored in the IMAGE file (#2005) for the Internal Entry Number (IEN) displayed in the edit box. When the window is opened, the selected Image's IEN is displayed. The IEN can be changed which gives you the option of viewing information for any Image. If the edit box is empty, then clicking the ^MAG(2005 button will display the information for the last Image entry in the IMAGE file (#2005).
	The IEN of the currently selected image.
	Next: Loads the Next Image IEN in to the edit field and displays its Global List.
	Previous: Loads the previous IEN values
	Loads the Group IEN for the current IEN being displayed.
TImageData	Displays internal information used by the application.
	Displays the associated TXT file in the memo area
	Displays the Image Information in the memo area
Field Values	Displays all of the fields for the IEN.
	Displays any flags that have been set for the IEN.

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