



VistA Imaging System

Clinical Capture User Manual

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Product Development
Health Provider Systems

Clinical Capture User Manual
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VistA Imaging Office of Enterprise Development

Department of Veterans Affairs

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VA intranet: <http://vaww.va.gov/imaging>

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Date	Rev	Notes
		<p><i>Annotations, Deleting Annotations, Exiting Annotation Mode and Saving Annotations with the Image, Using the Annotation Property Editor, Setting Line/Arrow Properties, Setting Line/Arrow Shape Properties, Setting Line/Arrow Color Properties, Setting Freehand Properties, Setting Freehand Line Properties, Setting Freehand Color Properties, Setting Rectangle/Highlighter Properties, Setting Rectangle/Highlighter Shape Properties, Setting Rectangle/Highlighter Color Properties, Setting Text Properties, Setting Text Font Styles and Sizes, Editing Text, Setting Text Color Properties, Setting Ellipse Properties, Setting Ellipse Shape Properties, Setting Ellipse Color Properties, Setting Ruler Properties, Setting Ruler Font Styles and Sizes, Setting the Ruler Shape Properties, Setting Ruler Color Properties, Modifying Start Line Length and End Line Length, Setting Protractor Properties, Setting Protractor Font Styles and Sizes, Setting the Protractor Shape Properties, Setting Protractor Color Properties, Setting Global Annotation Attributes, Default Values for Annotations, Setting Global Annotation Attributes from the Options Menu, Setting Global Annotation Font Attributes, Setting Global Annotation Line Width Attributes, Setting Global Annotation Color Attributes, Setting Global Annotation Opacity Attributes, Setting Global Annotation Arrow Attributes.</i></p>
May 2013	4.0	<p>Updated for Patch 129. C. Gilbert, L.Scorza</p> <ul style="list-style-type: none"> - Revised sections: <i>Conventions, Acronyms, Logging In and Starting Clinical Capture, Selecting a Patient, Configuration Settings Bar, Progress Note, Discharge Summaries, Clinical Procedures List, Creating an Addendum for Progress Notes, Create New Progress Notes, Progress Notes Window Options, Show Related Notes / Addendums, Using Keyboard Shortcuts, Alternate Viewer Options, Help Menu, Appendix A: Supplemental Logon Screens.</i> - Added new sections: <i>Creating an Addendum for Progress Notes, Starting Clinical Capture When Using CCOW, Starting Clinical Capture from CPRS, Starting Clinical Capture as a Standalone Application, Context Menu, and Appendix B: Clinical Context Object Workgroup.</i>

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Table of Contents

Introduction	1
Terms of Use.....	1
About This Manual	1
Related Manuals	2
Conventions	2
Acronyms	2
Getting Help	3
Document Scanning Overview	4
Document/ Image Capture with Clinical Capture	5
Logging In and Starting Clinical Capture	5
Starting Clinical Capture When Using CCOW	5
Starting Clinical Capture from CPRS	5
Starting Clinical Capture as a Standalone Application.....	6
Selecting a Patient	7
Configuration Settings Bar	9
Input Source.....	10
Format.....	11
Saving	12
Mode	12
Other	12
Association Choices.....	13
Patient Only.....	19
Why Scan Documents?.....	20
Document/ Image Capture Summary Steps	20
Selecting a Capture Configuration	22
Configurations	22
Selecting Capture Settings	22
Configuration Settings bar	25
Configuration buttons	25
Creating Configuration Buttons	25
Entering Data	28
Required Input Fields.....	28
Image Dates	28
Entering Data for the Image.....	29
Hold Value Option	32
Patient Only Images	34
Administrative Documents	35
Attaching Documents to Notes or Reports.....	37
Selecting a Progress Note (TIU)	37
Progress Note, Discharge Summaries, Clinical Procedures List.....	38

Creating an Addendum for Progress Notes	40
Create New Progress Notes	41
Sign or Electronically File Progress Notes	43
Attaching a Scanned Document to Different Author's Progress Note	43
Progress Notes Window Options	46
Selecting a Surgical Case	49
Select Directory of Images to Import.....	51
Selecting a Radiology Exam	53
Selecting a Laboratory Specimen	54
Selecting a Medicine Procedure	55
Selecting an Existing Medicine Procedure.....	56
Creating a New Medicine Procedure	57
Create New Procedure for Selected Subspecialty	58
Selecting a Clinical Procedure	59
Selecting a TeleReader Consult	61
Image Index Guidelines.....	65
Indexing Documents	65
Entering Date and Origin.....	65
Entering 'Type,' 'Specialty,' and 'Proc/Event' Values	65
Entering Image Descriptions.....	66
Image Capture Options	67
Scanning Documents as a Single Image	67
Scanning Multiple Pages.....	68
Scanning Documents as a Group (Study)	69
Image Quality	70
Image Annotation	71
Annotation Permissions	71
Annotating Images	71
Annotation Tools	72
Drawing Lines	73
Making Freehand Drawings	73
Drawing Rectangles	74
Adding Text to Images	74
Drawing Ellipses.....	75
Drawing Arrows.....	75
Highlighting Areas	76
Using the Ruler	76
Calibrating Rulers.....	77
Measuring Angles in Images.....	77
Selecting Annotations	78
Moving Selected Annotations	78
Resizing Annotations	79
Deleting Annotations	79
Exiting Annotation Mode and Saving Annotations With the Image	80
Using the Annotation Property Editor.....	80
Setting Line/Arrow Properties	81
Setting Line/Arrow Shape Properties.....	81
Setting Line/Arrow Color Properties.....	83
Setting Freehand Properties	84

Setting Freehand Line Properties	84
Setting Freehand Color Properties	85
Setting Rectangle/Highlighter Properties	86
Setting Rectangle/Highlighter Shape Properties	86
Setting Rectangle/Highlighter Color Properties	87
Setting Text Properties.....	88
Setting Text Font Styles and Sizes	88
Editing Text	89
Setting Text Color Properties.....	90
Setting Ellipse Properties.....	90
Setting Ellipse Shape Properties	90
Setting Ellipse Color Properties	91
Setting Ruler Properties	92
Setting Ruler Font Styles and Sizes	92
Setting the Ruler Shape Properties	93
Setting Ruler Color Properties	94
Modifying Start Line Length and End Line Length	95
Setting Protractor Properties.....	95
Setting Protractor Font Styles and Sizes	95
Setting the Protractor Shape Properties	96
Setting Protractor Color Properties	97
Setting Global Annotation Attributes	98
Default Values for Annotations	98
Setting Global Annotation Attributes from the Options Menu	98
Setting Global Annotation Font Attributes.....	99
Setting Global Annotation Line Width Attributes.....	100
Setting Global Annotation Color Attributes	101
Setting Global Annotation Opacity Attributes.....	102
Setting Global Annotation Arrow Attributes.....	103
Completing Capture	104
Scan Document or Color Picture	104
Meteor/Orion Imaging Boards.....	105
Digital and Still Video Camera Input	106
Validate Image Data.....	107
Display area	108
Image Manipulation Buttons	110
Warning Panel for Patient Change	111
Approving the Image.....	112
Image Function Buttons	113
Batch Capture Transfer Buttons	113
Batch Capture Options window.....	113
Long Image Description	115
Confirmation Window.....	116
Indicating Completion of a Study	116
Save Image Data to VistA	116
Fails.....	116
Importing Documents / Images	117
Import File from Workstation	117
Import Directory List.....	117

Timesavers	120
Using Keyboard Shortcuts	120
Using "Auto-Settings" to Save Keystrokes.....	121
Defining Display Area Defaults	121
Settings	121
Menu Options and Functions	123
Context Menu.....	123
Options Menu.....	123
Import Options.....	124
Field 'Tabbing' Sequence	125
Batch Capture Options	125
Alternate Viewer Options.....	126
Auto Settings	127
Scroll Bar/Zoom Settings.....	128
Annotation Settings	128
Import Directory Options	129
Visit Location	130
Show Hints	131
Show Confirmation Messages	131
Toolbars.....	132
User Preferences	132
Message History.....	132
Icon / Shortcut Key Legend.....	133
Tools Menu	137
Configurations Menu	137
All Settings	139
Capture Configuration List	140
Save Capture Configuration.....	143
Clear Configuration values.....	143
Properties Saved with Configuration Definitions.....	145
'Association' Configuration Settings.....	145
Workstation Configuration.....	146
Imaging Workstation Configuration Window.....	146
Clinical Capture System Manager Options.....	150
System Manager Menu.....	150
Workstation Configuration Editor	150
Apply Workstation Settings	150
Show ImageGear Info : to msg window	151
Save "Captured Image" As.....	151
Select a Write Directory.....	151
Advanced Batch Capture Options	151
Big File ON, (Save Big File to Network Also)	151
Net Security ON	151
Change Timeout Value.....	152
Set Workstation's Alternate Video Viewer.....	152
Workstation Configuration	153
Button/Field Options:.....	153
Demo Options	154

Image Format.....	154
Import Options.....	155
Input Source.....	156
Input Source Options	157
Login Options	157
Medicine Options	157
Save Options.....	158
Association.....	158
SYS_AutoUpdate	159
SYS_Configurations.....	159
SYS_Fonts	159
SYS_LastPositions.....	159
SYS_Meteor.....	159
VISTA MUSE	160
Workstation Settings	160
Utilities Menu	164
Setting the 'Controlled' Image property.....	164
Capturing Single Image.....	164
Capturing Group using Batch Capture	165
Capturing Group (not using batch capture).....	165
Image Menu.....	166
Help Menu	170
Security Keys.....	173
Appendix A: Supplemental Logon Screens.....	175
Appendix B: Clinical Context Object Workgroup.....	178
CCOW Overview	178
Patient Context in Clinical Capture	178

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Introduction

This manual explains how to configure and use the Clinical Capture software for Image Capture. Clinical Capture is a part of the VistA Imaging System. This manual is intended for use by clinical and administrative staff responsible for incorporating captured images into a patient's electronic medical record.

This manual assumes the users are familiar with the Windows environment, and that the Clinical Capture workstation being used has been configured to perform Image Capture. For more information about the Clinical Capture software, refer to the Imaging System Users Guide.

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:



No modifications may be made to this software without the express written consent of the VistA Imaging National Project Manager.



The Food and Drug Administration classifies this software as a medical device. Modifications to the computer where this software is installed, such as the installation of unapproved hardware or software, will adulterate the medical device. The use of an adulterated medical device violates US Federal Law (21CFR820).

About This Manual

This manual has two major sections:

- Task-Oriented Manual
- Reference Manual

Task Oriented Manual explains tasks associated with Clinical Capture with steps involved and accompanying screenshots.

Reference Manual is the section that describes all the available Menu Options and functions associated with Clinical Capture.

This manual contains the following chapters:

The Document Scanning Overview provides general information about document scanning and summarizes the document scanning process.

Document Scanning with Clinical Capture provides how-to instructions for each major part of Image capture and the suggested Capture process.

The Timesavers chapter describes some of Clinical Capture’s timesaving features.


Related Manuals

Additional information about document scanning and Clinical Capture can be found in the following documents:

- Imaging System Technical Manual
- Imaging System Installation Guide
- The [Document Imaging](#) web page
- [VistA Document Library](#)
- Health Information Management Service, [HIMS FAQ Web Page](#)
- [HIMS Practice Brief on the Legal Health Record](#)

Conventions

This manual uses the following conventions:

- For the purpose of this manual Document and/or Image are used synonymously and the capture process is the same for each.
- GUI elements (menu item, button, and field) are presented in **bold** font.
- References to sections in this document or to other documents are in *italics*.
- Notifications or controls that are identified by a phrase are enclosed in single quotation marks. For example: Click the ‘Share this folder as’ option.
- Instructions for using menus are condensed using the ‘|’ (pipe) symbol. For example: Click **File** | **Save** means: Click the **File** menu, then click the **Save** option.
- Useful or supplementary information is indicated by a TIP.
- Important or required information is indicated by a NOTE.
- Warnings concerning potential data loss or device misuse are indicated by: 

Acronyms

Acronym	Definition
CCOW	Clinical Context Object Workgroup
CPRS	Computerized Patient Record System
EKG	Electrocardiogram
FAQ	Frequently Asked Questions
FDA	Food and Drug Administration
HIMS	Health Information Management Service
HRN	Health Record Number

Acronym	Definition
IHS	Indian Health Service
PAL	Phase Alternate Line, the predominant video system or standard mostly used overseas
QA	Quality Assurance
RGB	Red, Green, Blue, the device-dependent color model used in color televisions, video and image devices
SSN	Social Security Number
TIU	Text Integration Utility
TWAIN	Though not a real acronym, TWAIN is the name of the standard interface for image acquisition devices first released in 1992 that came from an archaic form of the word “two”.
VA	Veterans Affairs
VHA	Veteran Health Administration
VistA	Veterans Health Information System and Technology Architecture

Getting Help

If you encounter any problems using this software, contact your local Imaging Coordinator or support staff. If the problem cannot be resolved locally, use Remedy tool to place a service request, or contact the National Help Desk.

Document Scanning Overview

This chapter provides general information about document scanning using Clinical Capture and summarizes the document scanning process.

Document/ Image Capture with Clinical Capture

This section provides how-to instructions for each major part of the document/image capture process. It covers:

- Logging in and starting Clinical Capture
- Selecting a capture configuration
- Selecting a patient
- Attaching documents to notes or reports
- Image index guidelines
- Image capture options
- Adding annotations
- Completing capture

NOTE: VistA Imaging Clinical Capture software is highly configurable. Its appearance may not match the examples shown in this manual.


Logging In and Starting Clinical Capture

The method used to start Clinical Capture can vary, depending on how VistA Imaging is set up at your site and on whether it is using Clinical Context Object Workgroup (CCOW) or not.

Starting Clinical Capture When Using CCOW

CCOW is a standard for synchronizing common data. If it is installed on the workstation and operational, it synchronizes the patient context for all CCOW-compliant applications that are running on the workstation.

If you are using CCOW, when you start Clinical Capture, the **Context** menu appears in the menu bar and the patient context is synchronized with Clinical Display and CPRS. That is, if any of these applications are open, the patient that is displayed in Clinical Capture will match the one displayed in Clinical Display and/or in CPRS. If Clinical Display is running, you will not have to log into VistA and you will not be presented with the VistA Sign-on box. In addition to this, you

will see the CCOW icon  next to the **Select Patient** button on the Vista Imaging Capture window. For more information about CCOW and patient context, see *Appendix B: Clinical Context Object Workgroup*.

Starting Clinical Capture from CPRS



You usually start Clinical Capture from CPRS when there is a need to review information in the patient's medical record. The current patient in Clinical Capture will always match the current patient in CPRS even if you are not using CCOW. The patient context is synchronized using Windows Messaging.

You can start Clinical Capture from CPRS by selecting **CPRS | Tools | VistA Imaging Capture** or as a standalone application. For more information, see the *CPRS User Guide*.

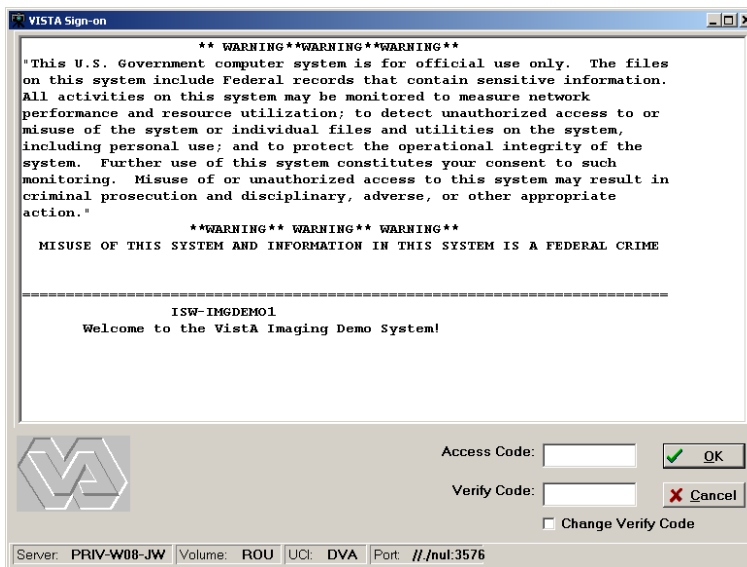
Starting Clinical Capture as a Standalone Application

Starting Clinical Capture as a standalone application refers to starting the application from the Start menu on the workstation, rather than from CPRS. If you are using CCOW and if there are CCOW-compliant applications that are already running on the workstation, when you start Clinical Capture, it joins the current context and no longer runs as a 'standalone' application.

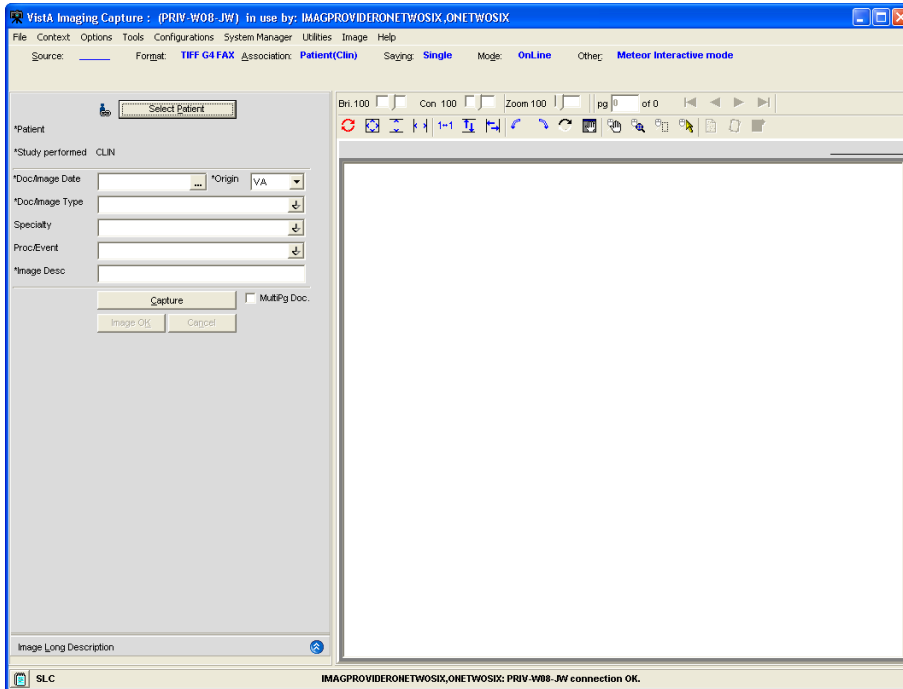
To start Clinical Capture as a standalone application:

1. Double-click the Capture shortcut  on the Windows desktop.
2. If a shortcut is not available, click , then choose **All Programs | VistA Imaging Programs | VistA Imaging Clinical Capture 32-bit**. Depending on how your site is configured, you may see supplemental Logon screens. Please refer to *Appendix A: Supplemental Logon Screens* for additional information.
3. If the VistA Sign-on box displays type your access and verify codes in the **Access Code** and **Verify Code** boxes, then click **OK**.

If you are using CCOW and if Clinical Display is running skip this step: Your user is already logged into VistA and you are not prompted to enter your access and verify codes the VistA Sign-on dialog box.



When you click **OK** in the VistA Sign-on box, Clinical Capture client connects to VistA and the Vista Imaging Capture window displays.



Note: If you are not using CCOW, you will not see the Context menu and the icon next to the **Select Patient** button.

Selecting a Patient

This section explains how to select patients using VistA Imaging Clinical Capture. You have to select a patient when you are running Clinical Capture as a standalone application and when you are not using CCOW or when you start Clinical Capture and neither CPRS nor Clinical Display are running.

NOTES:

- (1) If you start Clinical Capture from CPRS and CCOW is not running, the current patient in Clinical Capture will always match the current patient in CPRS. When you need to change patients, you will need to use CPRS.
- (2) If you are using CCOW, the current patient in Clinical Capture will always match the current patient in CPRS and/or Clinical Display.

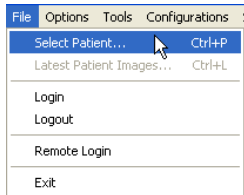
For more information about CCOW and patient context, see *Appendix B: Clinical Context Object Workgroup*.

To select a patient:

1. Log in to VistA Imaging Clinical Capture.
2. In the VistA Imaging Clinical Capture screen, use any of these ways to select patient lookup:
 - Click the **Select Patient** button in the VistA Imaging Clinical Capture screen. If CCOW is installed, there is an icon next to the button as illustrated in the following image.



- Choose **File | Select Patient**.



- Press CTRL+P.
 - Press ALT + P.
3. In the **Patient** box of the Patient Lookup dialog box, type the name of the patient you want to capture images for.

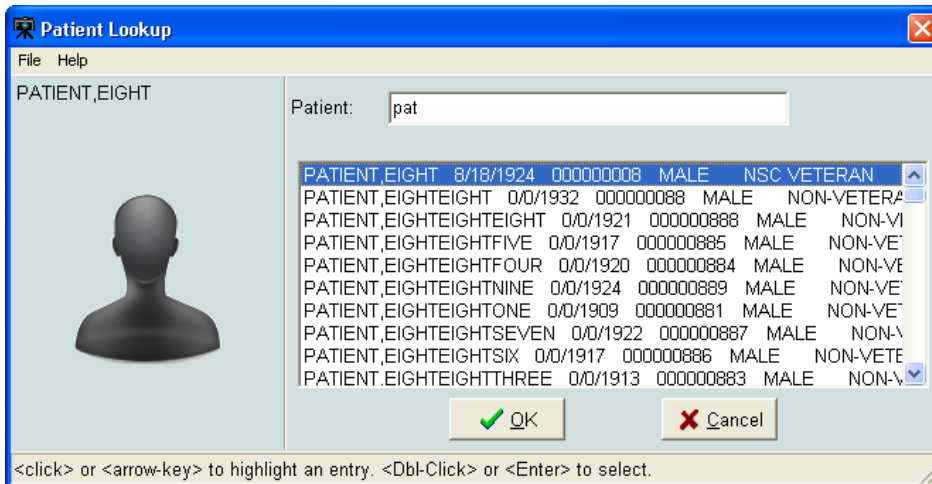


Enter the patient's last name first (no need to enter the entire name), or enter the first letter of the last name and the last four digits in the SSN (no spaces). If you enter both the last name and the first name, use only a comma to separate the names. VistA Imaging will not recognize a patient name if you use spaces. If you are located at an Indian Health Service (IHS) site, you can use the Health Record Number (HRN) for the patient identification.

4. Press **Enter** to perform the patient lookup.

If an exact match is found for information entered, that patient is selected and the patient lookup window is closed.

If there is more than one matching name, a list of names will be displayed along with the Patient's Photo ID where available. When Patient Photo is unavailable, a silhouette is displayed as shown in the following image.



5. Select the patient you want to use. Then click **OK**.

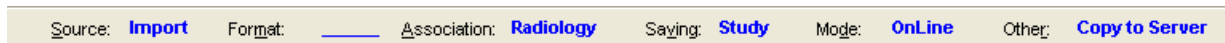
Configuration Settings Bar

The top of the VistA Imaging Clinical Capture window looks like this:



The Configuration Settings bar has options that you can select to capture an image. Below is a screenshot of the configuration bar and explanation of options follows.

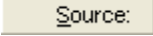
Near the top of the VistA Imaging Clinical Capture window, under the menus is the Configuration Settings Bar.

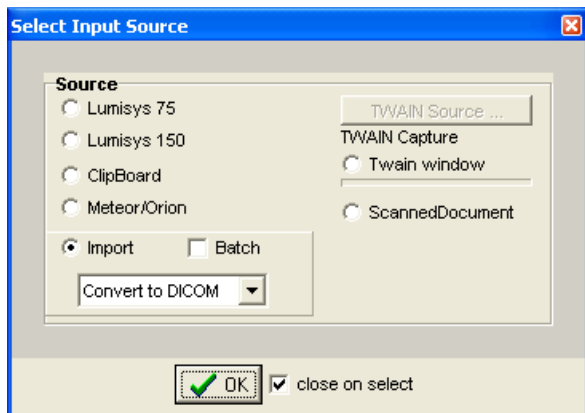


- The options are: **Input Source, Image Format, Association, Saving** (Study/Single), **Mode** and **Other**.
- The words in blue & bold are the current configuration settings.
- The configuration buttons are below the configuration settings.

NOTE: If one or more configuration buttons are present, click the button that is appropriate for the type of document being scanned. Configuration buttons can be different from workstation to workstation, and are usually named for particular documents. These are configurable buttons based on the configurations that are frequently used.

Input Source

Select the input source from the menu bar by clicking the **Source**  button.



The input source identifies the type of capture device being configured. It may be any of the following:

- A Lumisys x-ray scanner, model 75 or 100, which produces a 1K x 1K x 8-bit gray scale image and optionally a 2K x 2K x 12-bit diagnostic quality gray scale image.
- The Matrox Meteor/Orion boards capture standard NTSC and PAL analog video in composite, RGB and S-Video (Y/C) formats. They are capable of handling color or black and white input. Captured images are 640x480x24 bits.
- Image Import from the local disk or a network drive.
- A standard TWAIN device such as a color, x-ray, or document scanner or a still video camera; these may produce a 1-bit or 8-bit black and white image or a 8-bit or 24-bit color image.
- A customized TWAIN source called Scanned Document which produces a 1-bit 300x300 dpi document (G4 FAX quality).

NOTES:

TWAIN

Clicking the **TWAIN Source** button displays a list of all TWAIN sources connected to the workstation.

- If only one TWAIN Source is connected to the workstation, which is usually the case:
 - It will be automatically selected.
 - No list will be displayed if the button is selected.
- If TWAIN Capture - Twain window has been selected as the input source, another window will be opened when 'Capture' is clicked. This is the TWAIN Window for the TWAIN device. Each TWAIN Device has its own TWAIN Window and

TWAIN Image Types, In the TWAIN Window, image format and other image parameters will need to be selected.

- Be sure that the image format selected for the VistA Image Capture corresponds to the image type selected on the TWAIN window. Depending on the equipment manufacturer, different TWAIN Image Types may be listed, and not all vendors support all of these image formats.

Changing Image Formats

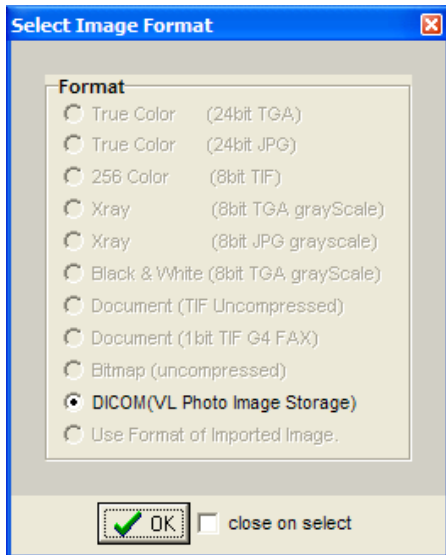
When changing an input source on the Configuration Window, the Image Formats that are grayed-out (disabled) will also change. The Imaging System knows which Image Formats are applicable to each input Source and will enable-disable Image Formats as appropriate.

Disabled Selections

Because of the complexity of multiple Image Formats and input Sources, there might be a situation where all Image Formats are disabled. If this situation occurs, contact the System Manager.

Format

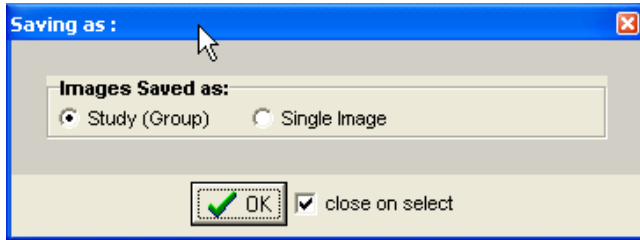
Choose a Capture Image format from the available options by clicking the **Format** button.



NOTE: The greater gray scale or color dpi chosen the larger the physical file created. This will affect transmission and storage processing times.

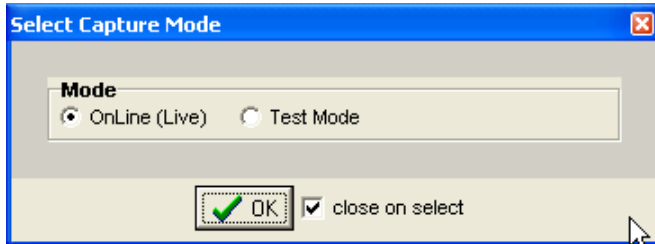
Saving

This is the option to save images as Study group or Single Image. Choose this option by clicking the **Saving** button.



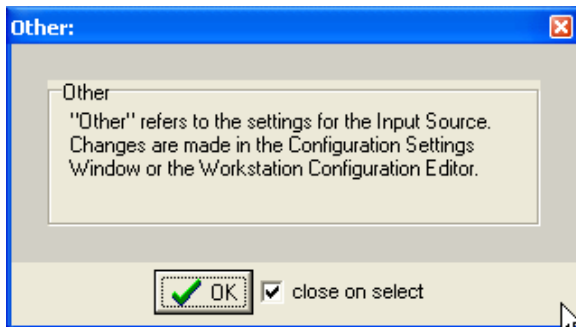
Mode

This is the option to save capture images OnLine. OnLine mode enables saving to VistA, Test Mode enables testing the device, but not saving to VistA. In Test Mode, Images are not saved. Choose this option by clicking the Mode button.



Other

This option provides "Other" settings for input source. Choose this option by clicking the **Other** button.

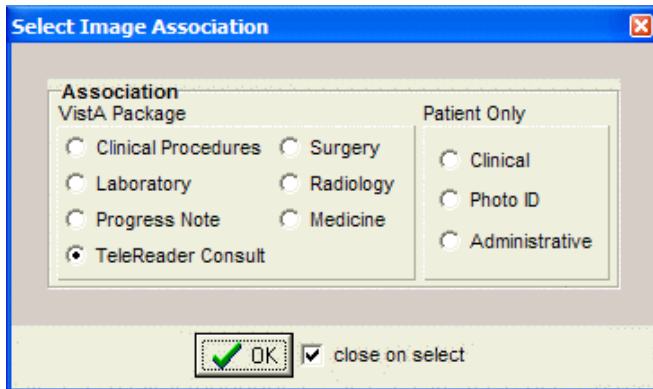


Association Choices

Click the **Association** button in the configuration toolbar to choose an Image Association. The options available for Image Association Choices are explained below. From the Select Image Association window, select one of the available options:

- VistA Package options (on the left side of the Select Image Association Window shown below), or
- Patient Only options (on the right side of the window shown below).

Choices include:



After all selections have been made, the information will be displayed on the main Capture window.

NOTE: Required information has an asterisk next to the selection field.

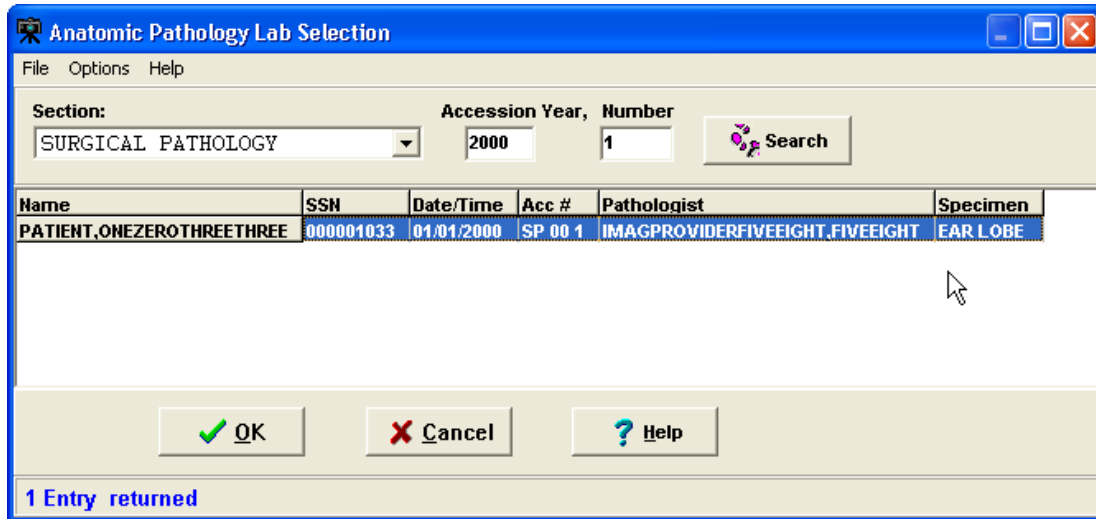
VistA Package Options

Explanation of the VistA Package Options is provided in this section.

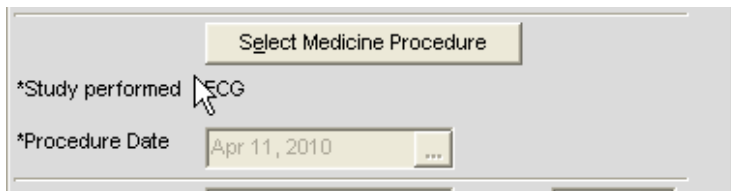
NOTE: The screen shots shown below are partial to show the selected association only and do not show the entire capture window.

Laboratory: When the Laboratory Package option is selected in Association, the capture window will display the following:

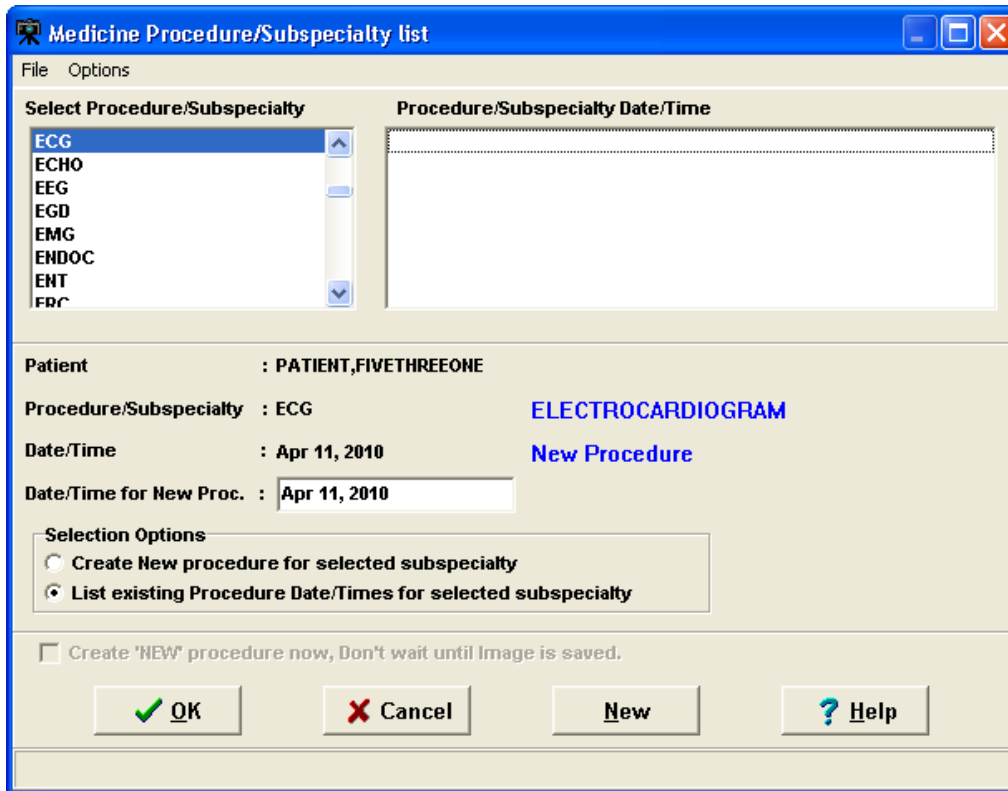
The following window will be displayed once you click the **Select Laboratory Specimen** Button from the main Capture window. Select a Pathology Lab selection from this window to populate related information in the main Capture window.



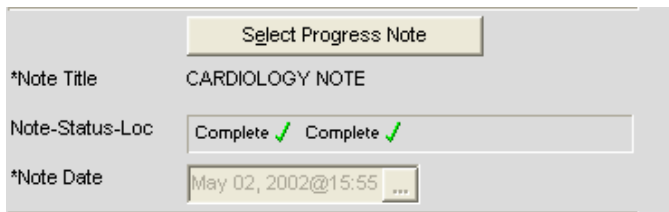
Medicine: When the Medicine Package option is selected in Association, the capture window will display the following:



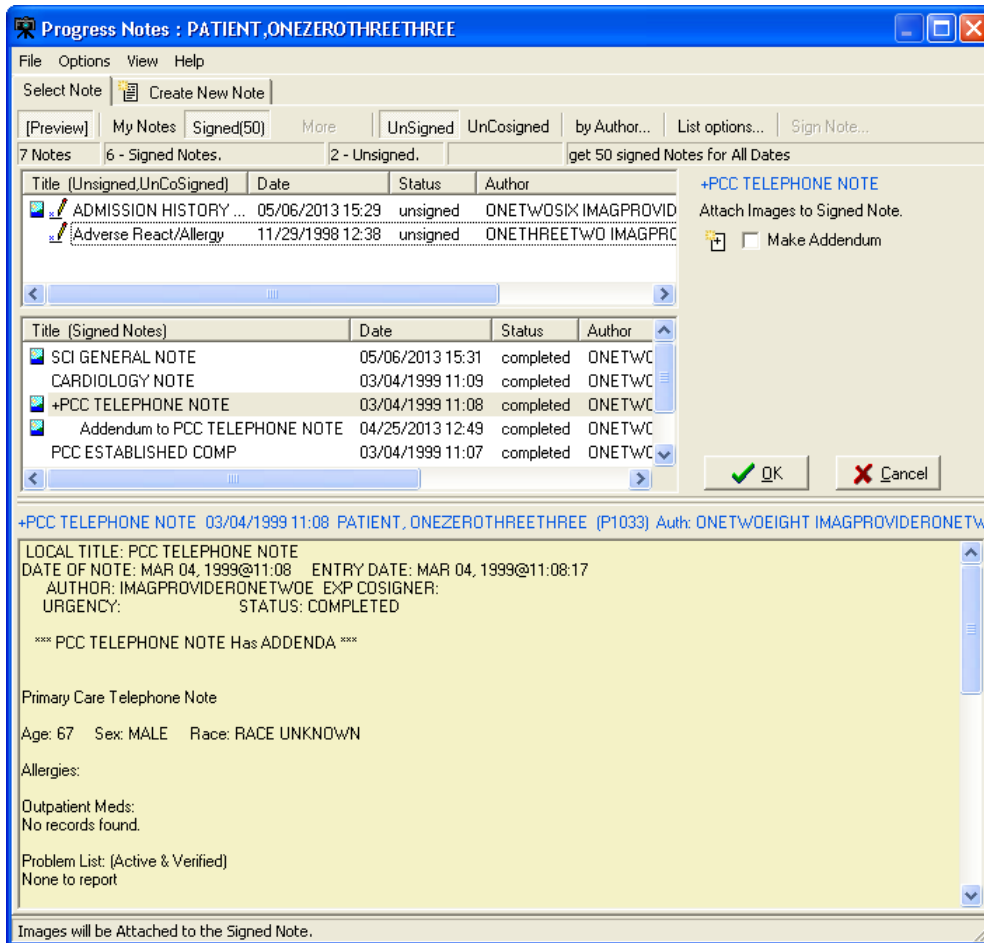
Click the **Select Medicine Procedure** button to select from the list of available options as shown in the image below. Select the procedure and click OK to populate related information in the main capture window.



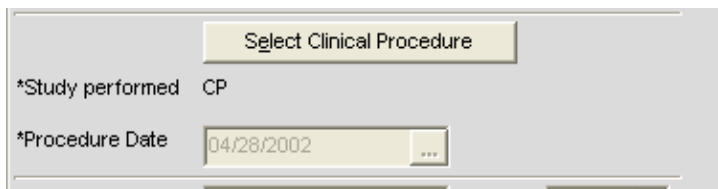
Progress Note: When the Progress Note Package option is selected in Association, the capture window will display the following:



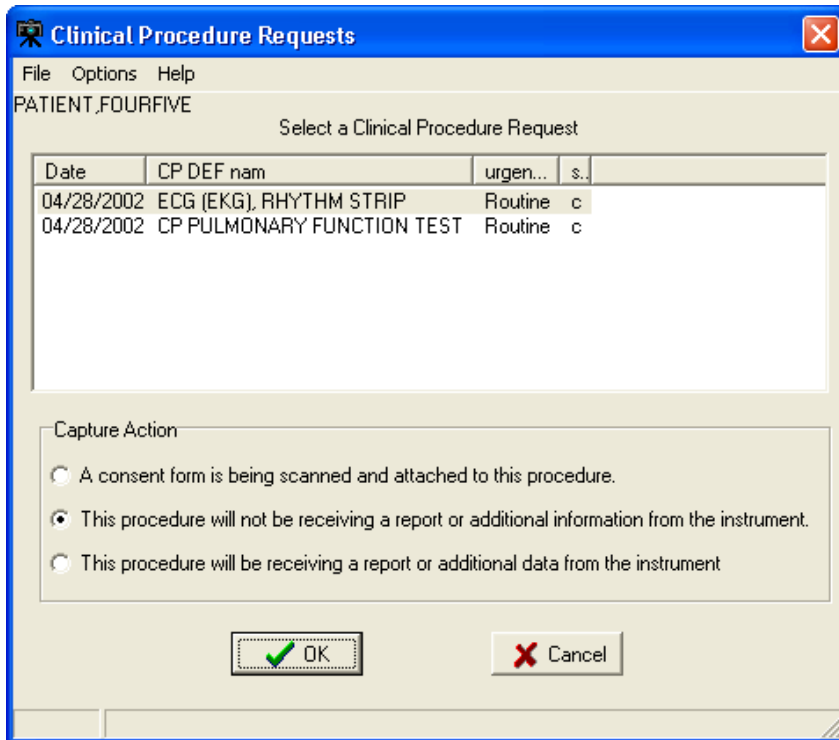
Click **Select Progress Note** button to display a list of available Progress notes for the selected patients shown in the image below. Select the note and click **OK** to populate related information in the main capture window.



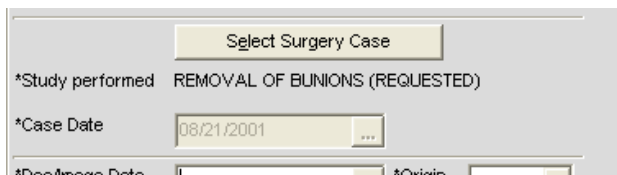
Clinical Procedures: When the Clinical Procedures Package option is selected in Association, the capture window will display the following:



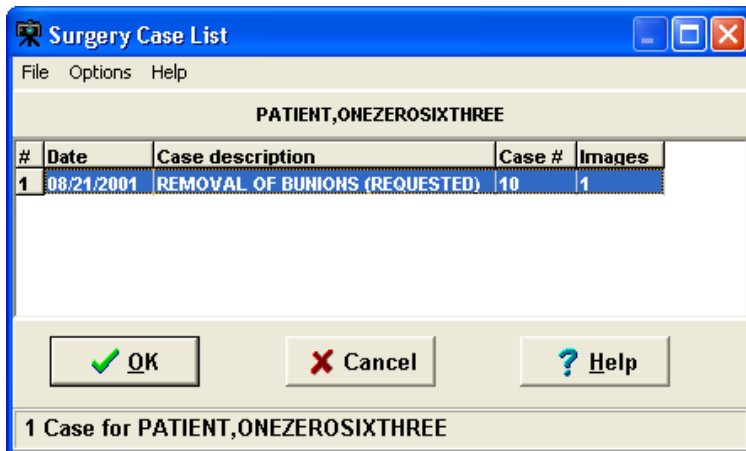
Click **Select Clinical Procedure** button to display a list of available Clinical Procedures for the selected patient as shown in the image below. Select the procedure and click OK to populate related information in the main capture window. For more information, refer to Clinical Procedure Package Procedures listed on the VistA Document Library.



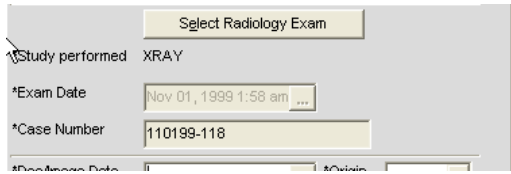
Surgery: When the Surgery Package option is selected in Association, the capture window will display the following:



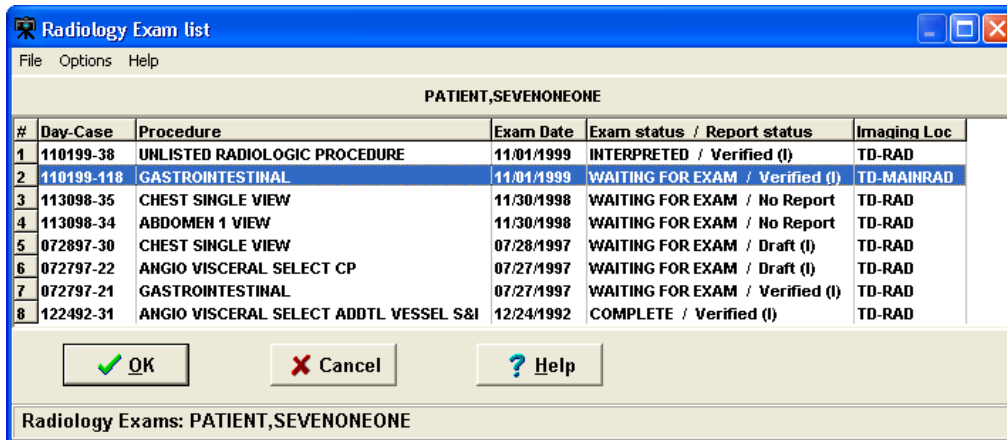
Click **Select Surgery Case** button to display a list of available Surgery Cases for the selected patient as shown in the image below. Select the case and click OK to populate related information in the main capture window.



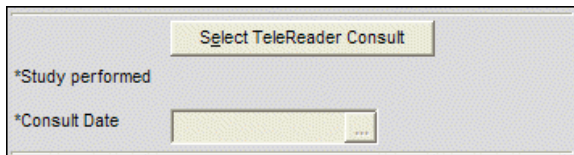
Radiology: When the Radiology Package option is selected in Association, the capture window will display the following:



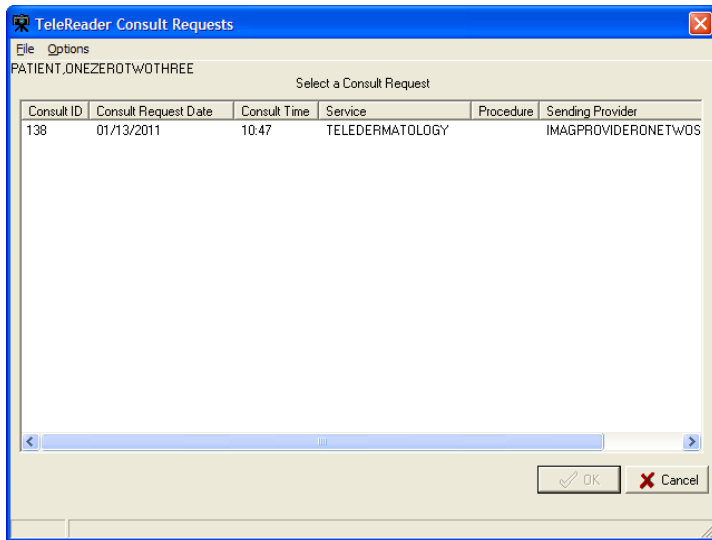
Click **Select Radiology Exam** button to display a list of available Radiology Exams for the selected patient, as shown in the image below. Select the case and click OK to populate related information in the main capture window.



TeleReader Consult: When the TeleReader Consult Package option is selected in Association, the capture window will display the following:



Click **Select TeleReader Consult** button to display a list of available TeleReader consult requests for the selected patient, as shown in the image below. Select the consult request and click OK to populate related information in the main capture window.



Patient Only

Under Patient Only, there are three options available: **Clinical**, **Photo ID** and **Administrative** as shown below.

Clinical: When Clinical is selected under Association, the capture window will display the following:

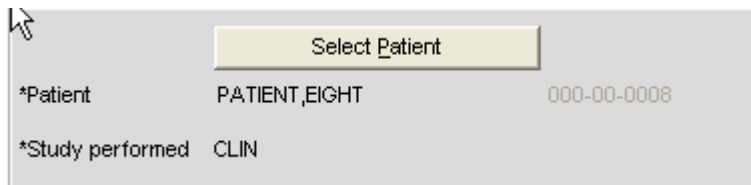
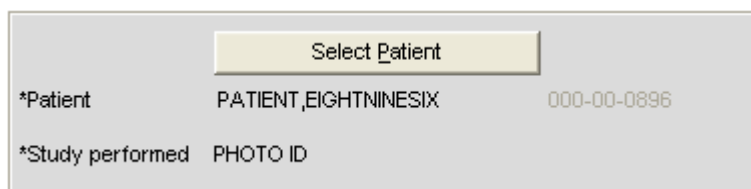
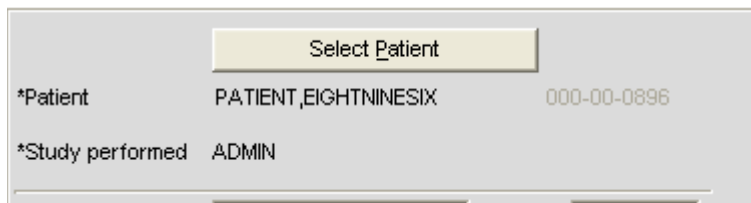


Photo ID: When Photo ID Option is selected under Association, the capture window will display the following:



Administrative: When Administrative Option is selected under Association, the capture window will display the following:



NOTES:

- VistA Imaging has the optional functionality of limiting a user's ability to capture images to certain packages based on assigned Imaging Capture Keys.
- If a dialog window appears with a message similar to: *You don't have the proper Security Keys to capture Medicine Images*, contact the system manager.
- If images are being captured for a Study Group and the study is not yet complete, all Association choices will be disabled. The study must be closed by clicking 'Study Complete' before a new Association can be selected.

Why Scan Documents?

VHA Directive 2001-045 requires that all VA medical centers implement a document imaging system by September 30, 2004. This directive states that all medical facilities must scan certain clinical documents to make them part of a patient's electronic medical record. The directive specifically mentions advance directives and consent forms.

Data that can be entered directly into CPRS should not be scanned.

To comply with this directive, and to support the goal making a patient's complete medical record available online, the following types of documents should be scanned.

- Consent forms and other documents with “wet” signatures of patients, practitioners, or other personnel
- Advance Directives
- Fee Basis Reports should be available from inside CPRS
- Results/reports from medical procedures that are not acquired directly from the instrument or entered in the VistA system.
- Means Tests
- Outside medical reports

Additional types of documents can be scanned according to HIMS Directives referred to in the section *Related Manuals*.

Document/ Image Capture Summary Steps

Document scanning with Clinical Capture involves the following general steps. These steps are described in detail in the following chapter.

NOTE: The order of steps 3 - 7 may vary, depending on how document scanning is set up.

1. Log into VistA Imaging Capture program.
Some sites may choose to start Capture from CPRS.
2. Select a patient.
If you started Capture from CPRS, a patient will already be selected.
3. Select the appropriate “capture configuration” for the documents to be scanned.

Some Capture workstations will use a single capture configuration that is selected automatically. If multiple capture configurations are defined, a capture configuration will need to be selected by the user.

4. Define how the document will be added to a patient's record.

Some scanned documents are linked directly to a patient record, while others are attached to a specific procedure or progress note.

5. Enter additional index information.

Depending on capture configuration selected, some information is pre-defined. Additional index values may need to be entered by the user.

6. Review the document for accuracy and readability before scanning. Also verify patient information before scanning.

7. Capture the document/ Image.

With the proper equipment, multiple page documents can be scanned in a single operation. A set of related documents can be scanned as a "group" of images, reducing data entry.

NOTE: For Telereader consults, only the first page is captured. Scan all other pages separately.

8. Verify the patient ID, input data, and image quality.

Users with annotation permission will be able to make annotations before the image is finalized.

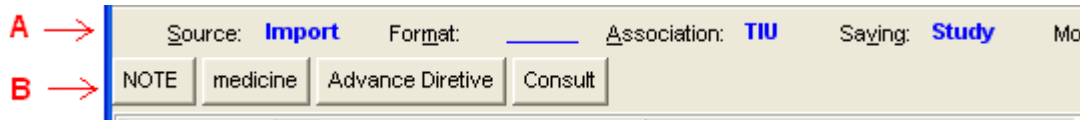
NOTE: Sites belonging to the Indian Health Service (IHS) can use the Health Record Number (HRN) to verify the patient identification.

9. Finalize Capture.

When the capture is complete, the image will be available for display at other workstations.

Selecting a Capture Configuration

Configurations



In the image shown above:

- Area A is the 'Current Settings' toolbar or 'Configuration Settings' bar. This toolbar allows you to select individual configuration settings.
- B is the 'Configuration Buttons' toolbar. A capture configuration refers to the group of saved settings that is associated with a Configuration Button.

When you select the menu option: 'Configurations | Save Configuration', you will be saving the current capture settings as a Configuration.

Once a configuration button is clicked, the configuration settings become the current capture settings. You can change the current capture settings without changing the Capture Configuration. When you click the Configuration button again, the settings will be changed back to the values of the configuration button that was clicked.

Selecting Capture Settings

Before scanning a document, you will need to select the capture settings pertaining to the document to be scanned. Capture settings defines how the Capture program sets certain basic parameters when a document is scanned.

The following steps are the suggested sequence of entering settings:

1. Select a patient as described in previous sections.
2. Then select a progress note or a procedure.

3. Enter date in **Doc/Image Date** box.

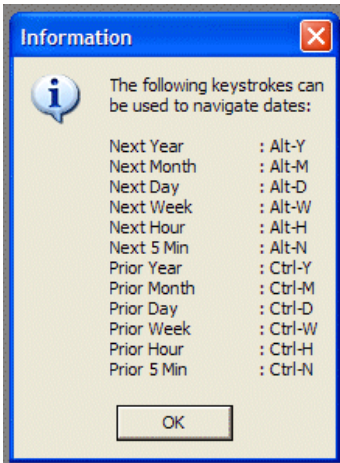
The screenshot shows a software interface for patient selection and data entry. At the top is a 'Select Patient' button. Below it, the patient information is displayed: '*Patient' PATIENT,EIGHTEIGHTEIGHT 000-00-0888 and '*Study performed' CLIN. The main section contains several input fields: '*Doc/Image Date' (with a date selector icon), '*Origin' (set to VA), '*Doc/Image Type', 'Specialty', 'Proc/Event', and '*Image Desc'. At the bottom, there are buttons for 'Capture', 'Image OK', 'Cancel', and 'Study Complete', along with a 'Batch' checkbox.

4. Click in the box to open the date/time selector window. Select **Date/ Time** and click **OK**.

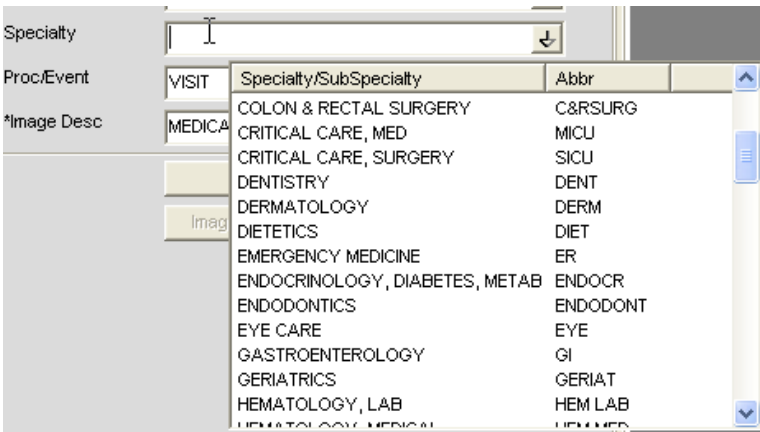
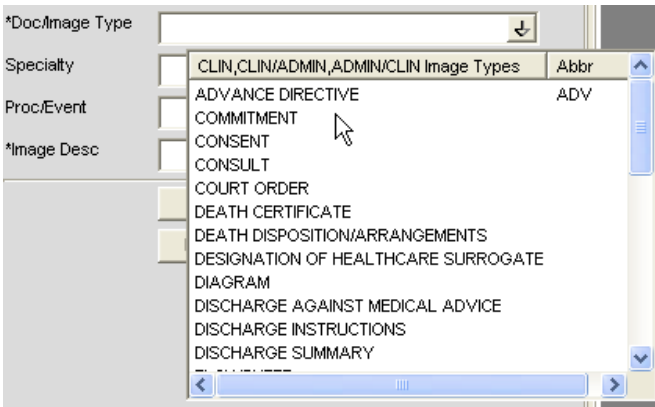
NOTE: Time selection is not required.

The screenshot shows a 'Select a Date and Time' dialog box. It features a calendar for February 2011 with the 8th day selected. To the right of the calendar are radio buttons for 'Now' and 'Midnight', and a time selection area showing 15:29 (3:29 pm). At the bottom, there are 'OK', 'Help', and 'Cancel' buttons. The status bar at the bottom indicates the current date and time: 02/09/2011 @ 15:29 (3:29 pm).

Note: The **Help** button displays a list of keystrokes for navigating dates, as shown.



5. After Selecting Date, enter additional required information by choosing from index field choices. The images below show some of the available choices for Doc/ Image Type and Specialty.



If you need assistance in determining which configuration settings should be used, contact your Clinical or Imaging Coordinator or HIMS department for guidance.

Configuration Settings bar

The image below shows the Configuration settings bar. All these options are explained in detail in sections to follow.



Configuration buttons

If one or more configuration buttons are present, click the button that is appropriate for the type of document being scanned. Configuration buttons are often different from workstation to workstation, and are usually named for particular documents. These are configurable buttons based on the configurations that are frequently used.

A sample screenshot of Configuration buttons is shown below. The configuration buttons can be configured at the workstation and the steps to save configuration buttons are described below.



NOTE: Some sites choose to save index field values as a part of a capture configuration. If this is the case, you will see automatically selected values in some of the index fields on the left side of the Capture window.

NOTE: You may see “Hold Value” icon  next to some of the fields. For more information about “Hold Value”, see page 32.

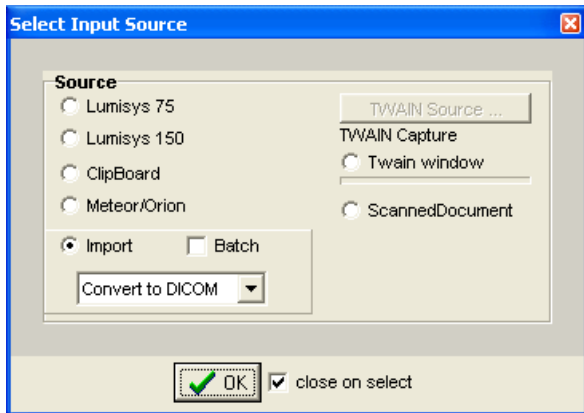
Creating Configuration Buttons

The image capture settings can be changed by:

- the Imaging Workstation configuration window,
- the Imaging Workstation: Capture configurations list window,
- clicking a Configuration Settings Button, located just below the menus, (**Source, Format, Association, Saving, Mode, Other**)

Examples:

Source – Window opens as shown below when clicked on **Source** button



Association - Window opens as shown below when clicked on **Association** button



Just below the Configuration settings buttons and their displayed settings, are the **saved configurations** or **Workstation Configurations**.

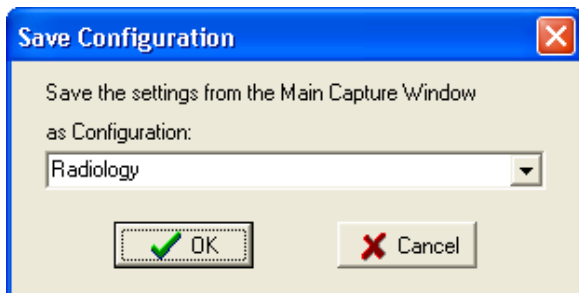


When one of these saved configuration buttons is clicked, the VistA Imaging Capture window is changed to the saved configurations of that button.

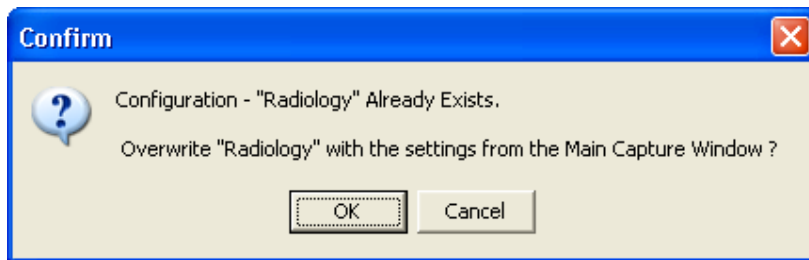
Save Configuration

This dialog can be used to save the current state of the main Capture window as a new configuration or to overwrite an existing configuration.

Enter a new or existing configuration name.



If an existing configuration name is entered a confirmation dialog will appear.



Entering Data

Required Input Fields

Image Dates

VistA Imaging can store 3 dates related to each image. These date fields are collected for imaging users. The dates can be used to filter and sort images.

Capture Date

The Image Capture Date is stored in the VistA Imaging Database. This field is computed by the software when the image is added to the VistA Database.

Document Date

- The "Document Date" is the Date/Time of the creation of the "original" document or image.
- There are situations when this date field is not known.
Example 1: A CD is brought to the VA (from another agency) and imported into a radiology study.
- The Document Date will be the date the study was performed and images captured at that agency.
- The Capture Date will be the date it was stored in VistA Imaging.
Example 2: An Advanced Directive is signed by a patient and the document is scanned into VistA Imaging at a later date.
- The Document Date will be the date the Advanced Directive was signed by the patient.
- The Capture Date will be the date the paper document was scanned and stored in VistA Imaging.

Event Date

This date is filed automatically and is not editable by the user. The date can be a Date/Time or Date only, depending on its association.


When the information is associated with a patient (not VistA Package) then this field contains the Capture Date/Time.

Additional **Data required** to capture an image to the patient record, depends on the association selected, and includes the following settings:

- Patient
- Study Performed
- Procedure Date
- Doc / Image Type
- Image Short Description
- and an Image File

Optional data includes:

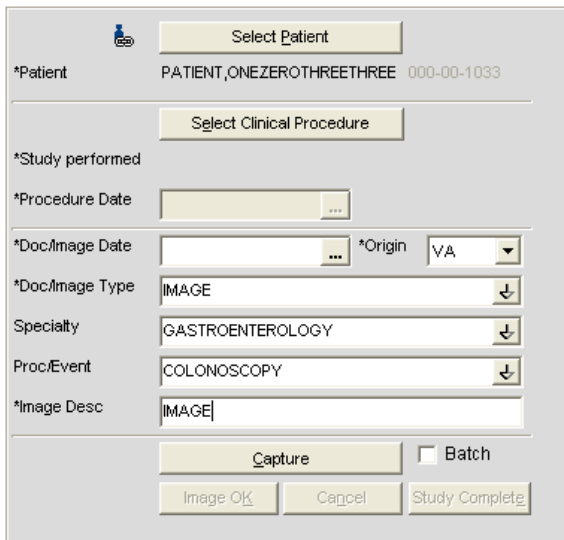
- Specialty
- Proc/Event
- Image long description.

A validity check is performed when the 'Image OK'  button is clicked. If data is missing, a message is displayed in the message box at the bottom of the window and input focus is set to the field that needs data or the button that opens the selection window for the required data.

NOTE: VistA Imaging allows changing the order of the edit fields and controls. Select the menu option **Option | Field Tabbing Sequence**.

Entering Data for the Image

The following is a screenshot of the Image Data in the Clinical Capture main window.



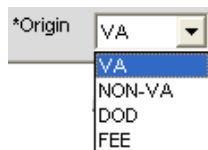
The screenshot shows a form titled 'Image Data' with the following fields and controls:

- Select Patient** button
- *Patient: PATIENT,ONEZEROTHREETHREE 000-00-1033
- Select Clinical Procedure** button
- *Study performed
- *Procedure Date: [Date Picker]
- *Doc/Image Date: [Date Picker] *Origin: V.A [Dropdown]
- *Doc/Image Type: IMAGE [Dropdown]
- Specialty: GASTROENTEROLOGY [Dropdown]
- Proc/Event: COLONOSCOPY [Dropdown]
- *Image Desc: IMAGE [Text Field]
- Capture** button, **Batch**
- Image OK**, **Cancel**, **Study Complete** buttons

- If a Patient Photo ID is on file, it will be displayed to the left of the Patient Name.
- The fields with a **gray background** are filled by VistA Imaging when the user makes selections.

The **input data** fields include:

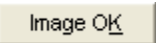
- **Patient ID** (name and SSN is input from the VistA Select Patient information),
- **Study Performed**,
- **Procedure Date** (and Time - input by the system),
- Doc/Image Date
- Origin

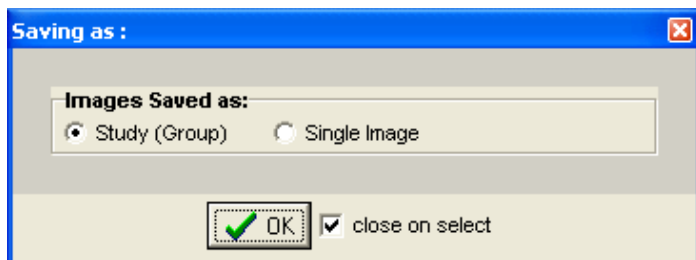


- **Doc/Image Type** (selected from a list),
Note: For a TeleReader Consult association, select **IMAGE** or **CONSULT**.
- **Specialty** (* optional, selected from a list),
- **Proc/Event** (* optional, selected from a list)
- **Image Description** (generated from the previous selections, user can add/modify the entry).

If the VistA Imaging Capture window is resized a scroll bar may become visible.

Press <TAB> to move from field to field, as an alternative to scrolling. The area will scroll automatically so that the current input field will be in the visible area.

When the 'Image OK'  button is clicked, VistA Imaging checks the data fields required to save an image to VistA. If any fields are missing, VistA Imaging will warn the user.



If the **Save as** window is set to **Study (Group)**, then when the last image in the Group is saved and the Study Complete button is clicked -- you will be given the option of entering a '**Long Description**' for this group. Long image descriptions are displayed as the first paragraph of Image Reports.

Index fields that are to be populated by the user are displayed on the left side of the main Capture window. Each field has a pull-down list populated with values common to all VistA Imaging sites. The user can use the mouse or the keyboard to select values for each field. [*\(see below\)](#)

* asterisks in the graphic above, denote an Optional field

The Specialty and Proc/Event Fields are unique in that a value selected for one of the two fields *will be used to filter (reduce) the contents of the pull-down list for the other field.* This filtering should reduce the selection of inappropriate entries, and gives the user a smaller, more relevant list of choices. If a user needs to display the unfiltered pull-down lists, they can delete the contents of either field, or use the Refresh Index Lists option under the **Tools** menu.

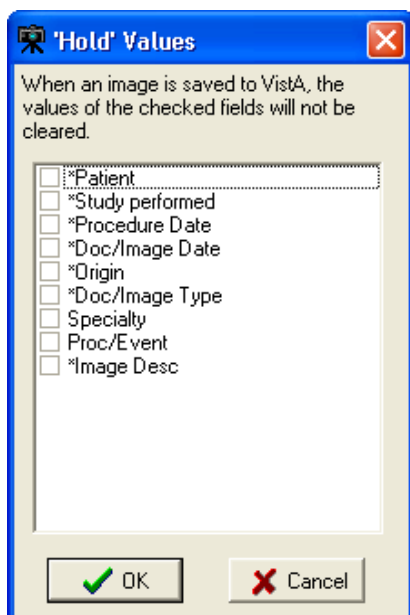
{* The contents of each pull-down list can be fine-tuned by setting the Status field (#4) in files 2005.83, 2005.84, and 2005.85. When Status = Active (Active is the default value), the related index value is present in the appropriate pull-down list. If Status is set to Inactive, the related index value is not available as an option. }

Hold Value Option

This option enables user to 'hold' Image information for successive captures of images/Image Groups thus avoiding the need to reenter **information that remains constant** for a series of images / Image Groups. Open Hold Value window clicking Configurations | Select Hold Values option.

Click in the box to the left of the field that is to be retained. All fields that are not checked will be cleared after each image is captured.


'Hold Value' Feature



Hold Value can be used for **any input field** in the left side of the Capture window, even those fields that are not directly entered by the user.

You can turn **Hold Value** on or off by:

- checking or clearing the check box the particular field in the 'Hold Values' window,
- right-clicking a particular field on the main Capture window, or

When **Hold Value** is active for a particular field, a **push pin icon**  appears next to the field. See image below.

Select Clinical Procedure

*Study performed

*Procedure Date

*Doc/Image Date *Origin VA

*Doc/Image Type IMAGE

Specialty DERMATOLOGY

Proc/Event ALLERGY TESTING

*Image Desc RR

Capture Batch

Image OK Cancel Study Complete

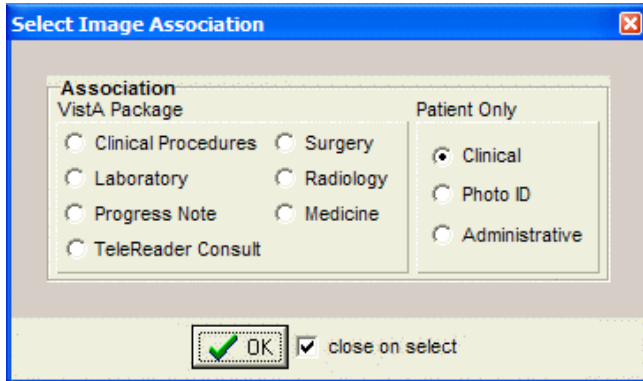
When **Hold Value** is turned on for a field:

- The value for that field will be retained until it is explicitly changed by the user.
- If a field containing patient-specific information is 'held', and the patient is changed, the field will be updated with the new information, but the Hold Value option will remain active.

NOTE: Hold Value settings are cleared when a user exits the Capture application unless they have saved the settings as a configuration button.

Patient Only Images

Click the **Association** button and select one of the three options available under **Patient Only**: **Clinical**, **Photo ID** or **Administrative** as shown in the following image.



Images with Patient Only association are not associated with any Packages. When Clinical option is selected under association, Study Performed changes to CLIN on the left side of the

Capture Screen.

*Study performed CLIN

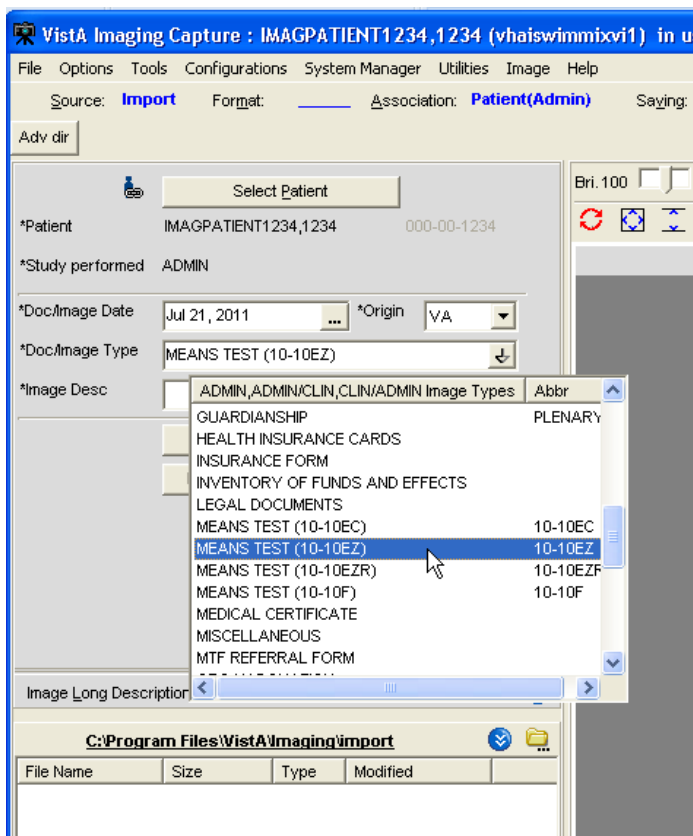
Also **NOTE** that the images with Patient Only Association can be displayed through Clinical Display but **NOT** referenced in CPRS.

Administrative Documents

Administrative documents can be scanned using the Administrative **association**.

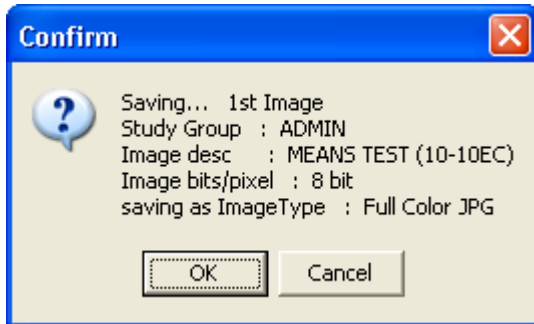
1. Select a Patient by clicking the 'Select Patient' button.
2. Select the type of administrative document to be scanned from the list. For example, MEANS TEST may be selected.
3. Enter the document's date such as 12/14/2001 or T for today's date.

The Image Description will say MEANS TEST (10-10EZ) or whatever Document type was selected from the pull-down list. The description may be edited.



1. Place MEANS TEST document on scanner.
2. Click the capture button to begin scanning.
3. Check the 'MultiPg Doc' box if you wish to use the automatic document feeder on your scanner. Leave this box unchecked if using the flatbed scanner.
4. Click the capture button to begin scanning.

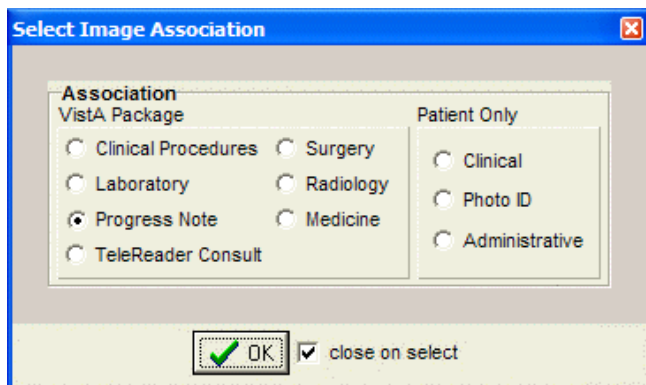
- The scanned image will appear on the right side.
If you have the menu item Options| Show Configuration Messages checked, you will be asked to confirm the save settings. NOTE: This setting is saved as a user preference.



- Click the **OK** button to confirm.

Attaching Documents to Notes or Reports

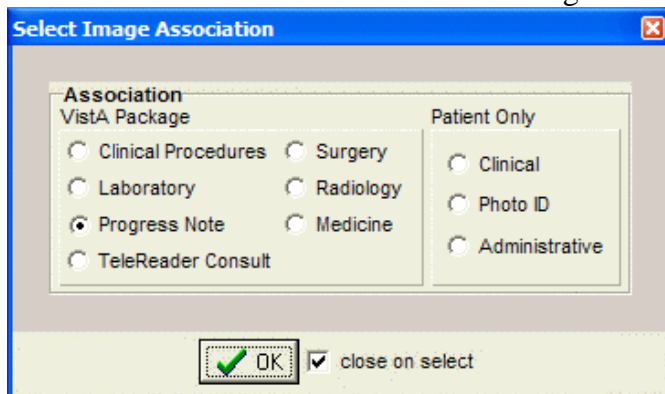
If the **Association** value in the configuration settings bar displays a VistA package—such as **Medicine**, **Progress Notes (TIU)**, or **Surgery**—you will need to select a VistA report or progress note to “attach” the scanned document to.



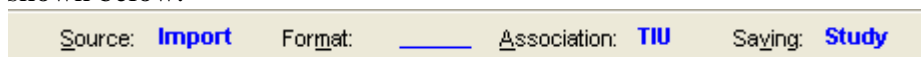
The steps used to select progress notes or reports vary based on the package that the note or report is stored in. Detailed steps for each package are covered in the following subsections.

Selecting a Progress Note (TIU)

1. After Selecting a Patient, choose option Progress Note after clicking the Association button in the configuration settings toolbar. Click **OK**.



Once Progress Note Association is selected, Association value displays TIU as shown below.



2. Click button located on the left side of the Capture window. The Progress Notes window will open.
3. In the list of progress notes for the current patient, click the note that you want to associate with the scanned document.

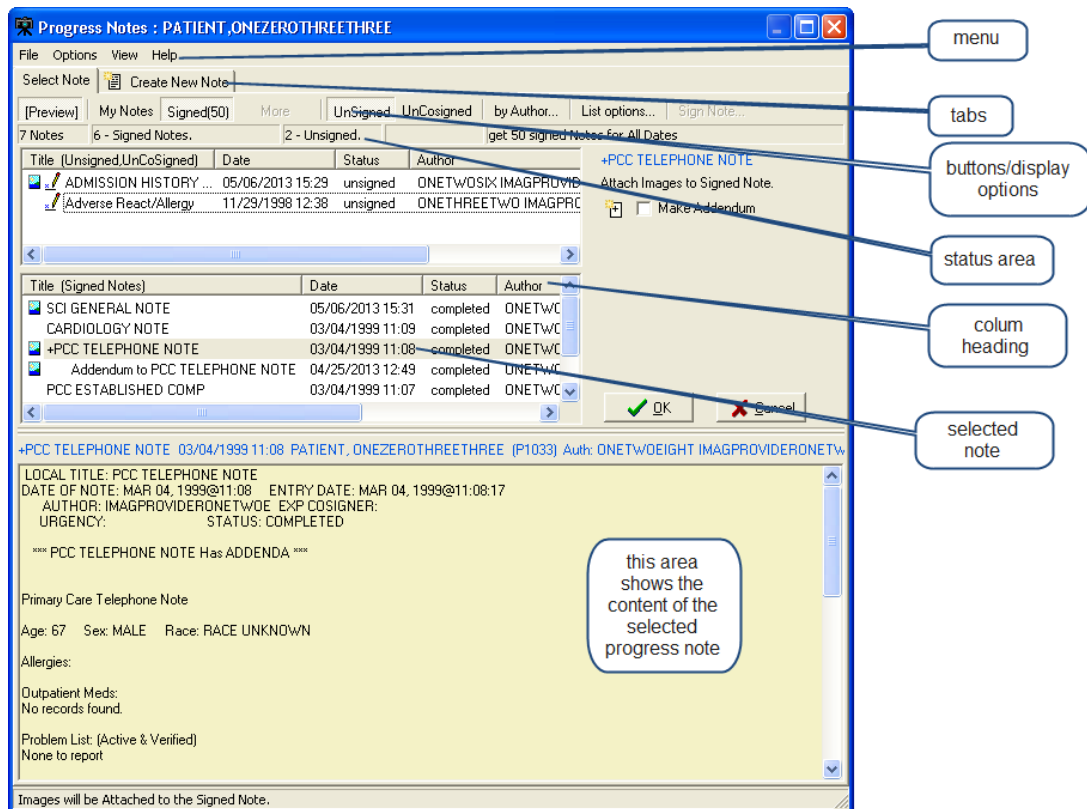
- Click **OK**. The Progress Notes window will close.
- Verify that the left side of the Capture window shows appropriate values in the Study Performed, Note Date, and Image Description fields. For information on entering values in the other fields, see the *Image Index Guidelines* section.

Progress Note, Discharge Summaries, Clinical Procedures List

To open Progress Notes window:

- In the Clinical Capture main window, select a patient.
- Click the **Select Progress Note** button in the left pane.

The Progress Notes window displays.



The Progress Notes window lists progress notes, discharge summaries and clinical procedures.

You use this window to:

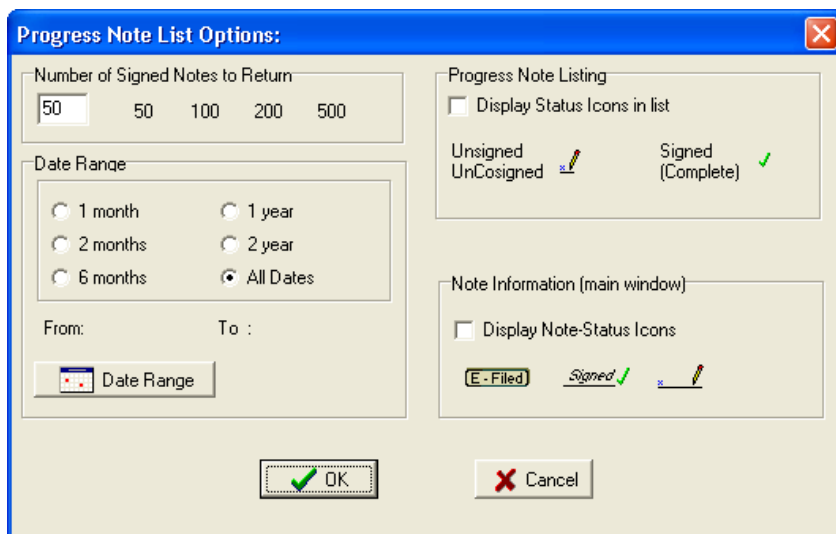
- View the notes for the selected patient
- Create new progress notes for the selected patient. For information about the procedure, see the *Create New Progress Notes* section.
- Enter addendums to progress notes and assign status to progress notes. For information about the procedures, see the section *Creating an Addendum for Progress Notes*.

By default, the Progress Notes window shows the last 50 signed notes for the patient. You can display more notes by clicking the **More** button (display option), which is available if the patient has more than 50 signed notes. You can use the other buttons above the list of notes to customize the display of the data in the Progress Notes window. Each button is a display option and a toggle switch. When you click the button, it becomes active (selected). When you click it again, the button becomes inactive.

- **Preview** – When this button is selected, the lower part of the window displays the content of the selected progress note.
- **My Notes** – When this button is selected, only the progress notes created by you (the user who is logged on) are displayed.
- **Signed** – When this button is selected, signed progress notes are displayed.
- **More** – Clicking this button displays more notes in the window (in batches of 50).
- **UnSigned** – When this button is selected, unsigned notes are displayed.
- **UnCosigned** – When this button is selected, un-cosigned notes are displayed.
- **By Author...** – This button allows you to display notes only by a specific author. Clicking the button opens a dialog box in which you can select the user whose notes you want to display.
- **List Options** – This button allows you to configure the default display options for the Progress Notes window. For more information, see *Configuring the Default Display Preferences for Progress Notes*.
- **Sign Note...** – This button allows you to sign notes. For more information, see *Sign or Electronically File Progress Notes*.

Configuring the Default Display Preferences for Progress Notes

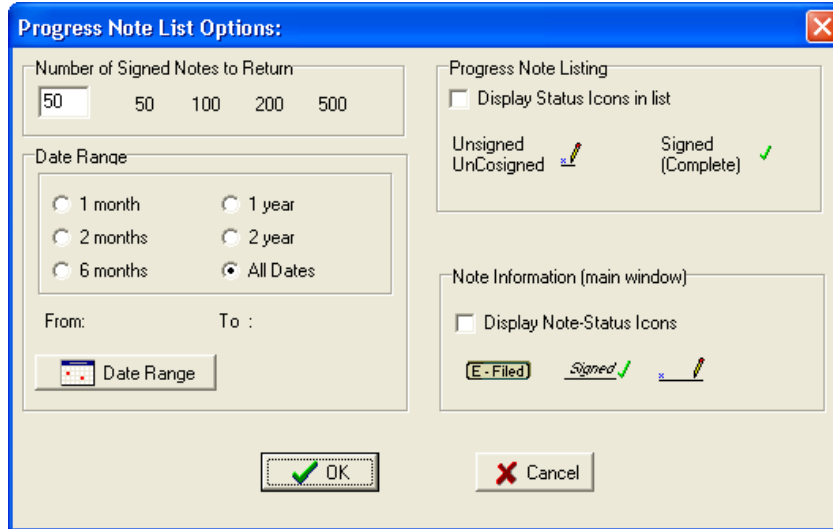
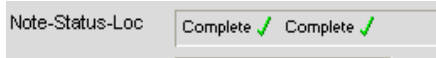
You can specify the default display options for the progress notes in the Progress Note List Options window, which is illustrated in the following image.



To configure the default display options for progress notes:

1. In the Progress Notes window, click **List Options**.

2. In the Progress Note List Options window that displays, modify the current options as desired. You can specify the following parameters:
 - **Number of Signed Notes to Return** – Specifies the number of signed notes that are displayed in the window.
 - **Date Range** – Specifies the date range for the notes that are displayed.
 - **Progress Note Listing** – Select the **Display Status Icons in list** checkbox if you want the notes list to show an icon indicating their status.
 - **Note information (main window)** – Select the **Display Note-Status Icons** in list checkbox if you want the notes to show an icon indicating their status in the main window. The icon displays next to the note status in the **Note-Status-Loc** field.



3. When done, click **OK** to save your changes.

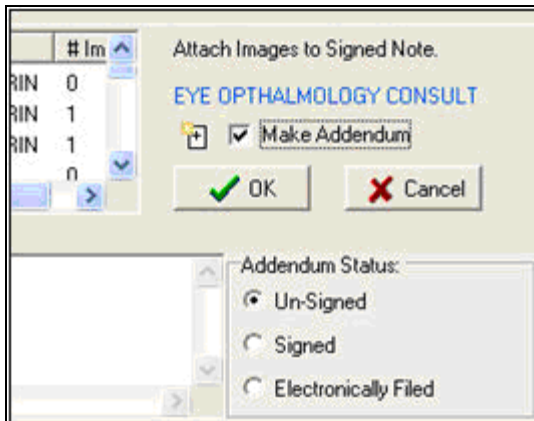
Creating an Addendum for Progress Notes

You can add an ‘addendum’ to an existing signed (or electronically filed) progress note. An addendum inherits many of the properties of its parent note. However, it has its own status and can have its own text and/or attached image.

The use of addenda is optional.

To create an addendum:

1. Open the Progress Notes window and click the **Select Note** tab.
2. Select the note to which you want to add the addendum.
3. Click the **Make Addendum** checkbox on the right side of the dialog box. (This checkbox does not appear when unsigned notes and addendums are selected.)



4. Enter the addendum text and select the status to be applied to the addendum when the image capture is complete.

Existing addenda *for signed notes*, if present, can be shown or hidden using the **View | Show Related Notes Addendums** option in the Progress Notes window.

When addenda are hidden, a + sign indicates if a note has an addendum.

When addenda are visible each addendum is listed under its related note.

Title (Signed Notes)	Date	Status	Author
SCI GENERAL NOTE	05/06/2013 15:31	completed	ONETWC
CARDIOLOGY NOTE	03/04/1999 11:09	completed	ONETWC
+PCC TELEPHONE NOTE	03/04/1999 11:08	completed	ONETWC
Addendum to PCC TELEPHONE NOTE	04/25/2013 12:49	completed	ONETWC
PCC ESTABLISHED COMP	03/04/1999 11:07	completed	ONETWC

NOTE that when addenda are displayed:

- Column sorting is disabled.
- Signed or unsigned notes can be displayed, but not both at the same time.
 - When unsigned notes are displayed, sorting is based on the date of the unsigned note or the date of any of that note's unsigned addenda.
 - When signed notes are displayed, sorting is based on the date of the signed note (the date of any addenda are not considered).
 - For the purposes of sorting, electronically filed notes are considered signed.

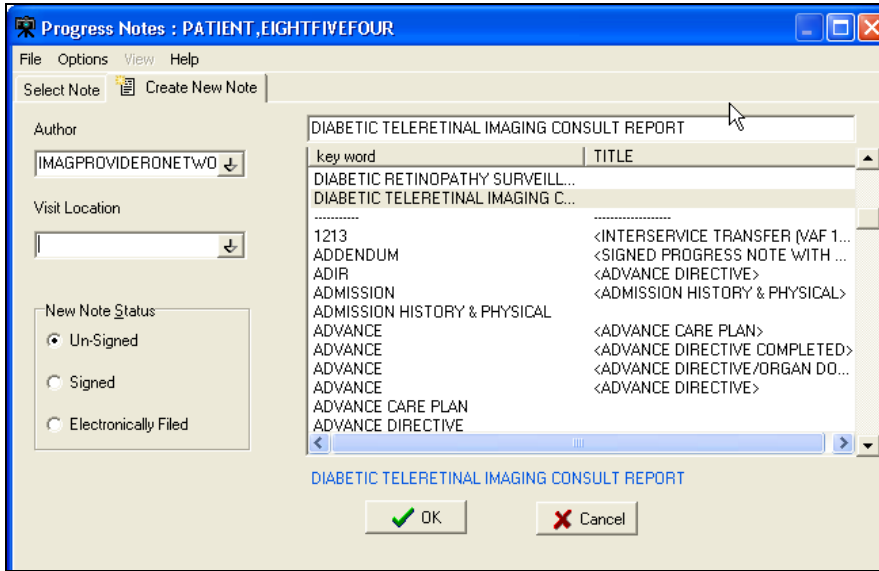
Create New Progress Notes

You can create a new progress note in Capture, to reduce the need to switch back and forth from CPRS.

To create a new note:

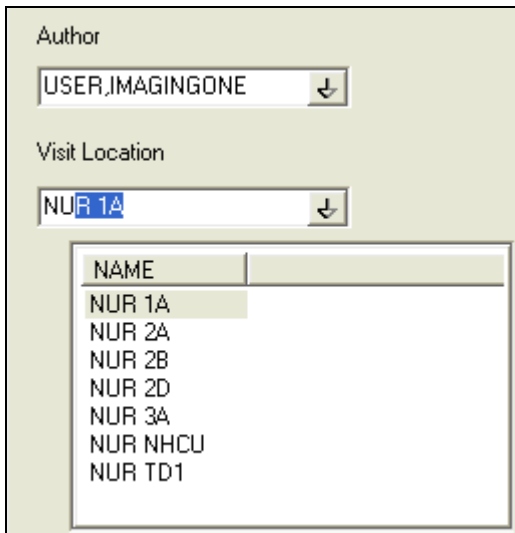
1. In the Clinical Capture main window click the **Select Progress Note** button.

- In the Progress Notes window that displays, click the **Create New Note** tab.



- In the **Author** box, change the author of the note, if necessary.

Tip: Entering the first few characters will display a list of all entries that match these characters.

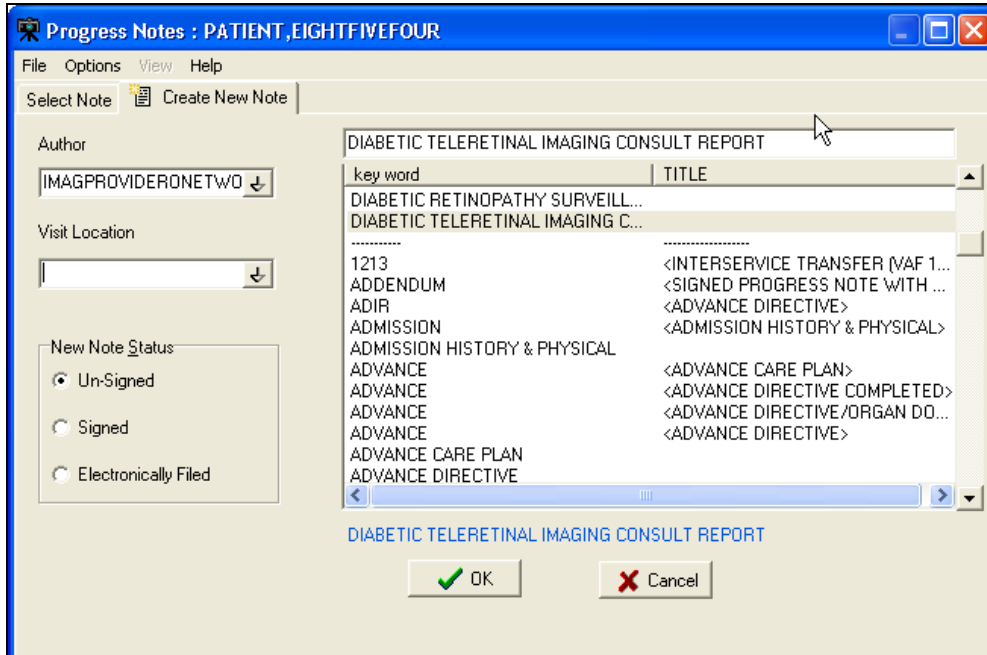


- Select the location of the visit from the **Visit Location** list.
- The **Note Status** area allows you to indicate what the status of the note should be set to *once the image capture is complete*. For more details about setting a note's status see the *Sign or Electronically File Progress Notes* section.
- The **Enter Text** box can be used to enter text for the note. Boilerplate text, if defined, may be present already. (Templates, however, are not implemented. To work with a template, the note must be created using **CPRS**.)

- The note title area can be populated by selecting a note from the scroll list, or by entering the first few characters of the note title (which causes a clickable list of matching note titles to display).

Sign or Electronically File Progress Notes

You can assign a status to a progress note directly from Capture. To do this, open the Progress Notes window, and then select an existing note or create a new note. Then click an option in the status area indicating what the status of the note should be.



- When **Un-Signed** is selected, the note status is not changed when the capture is complete.
- When **Signed** is selected, the user will be prompted to enter a signature after completing the image capture, and the note's status is updated automatically.
- When the **Electronically Filed** option is selected, the note is considered 'closed' when the capture is complete—no signature is needed. This option should be used for notes/scanned documents (such as consent forms) that do not require a clinician's signature. The Electronically Filed option is only visible to users that have the security key, MAG NOTE EFILE. Only users who have this new key can set a note's status to Electronically Filed.

Attaching a Scanned Document to Different Author's Progress Note

A site may elect to scan documents and attach them to Progress Notes.

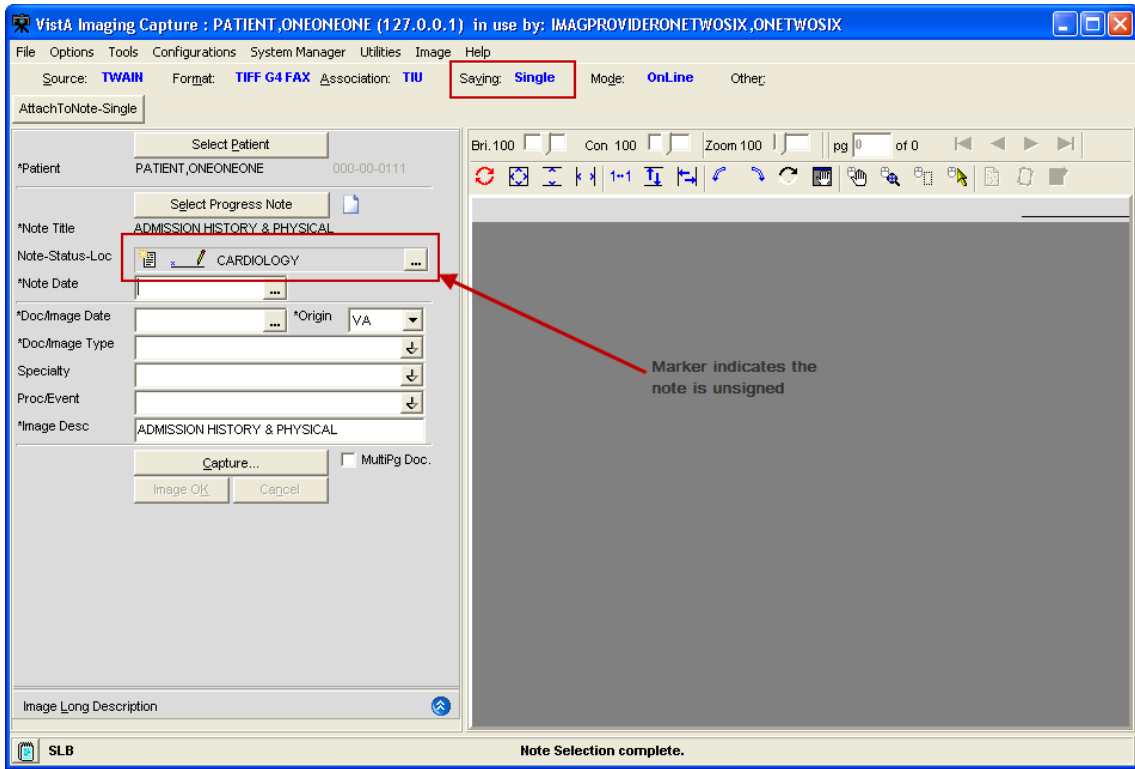
There are various ways to attach documents to progress notes.

There are two ways to save the attachments as Single or Study/Group this example is for a Single Capture. Study/Group has an extra button in the Capture window.

To attach a document or an image to a note that alerts the provider that he/she has an unsigned note:

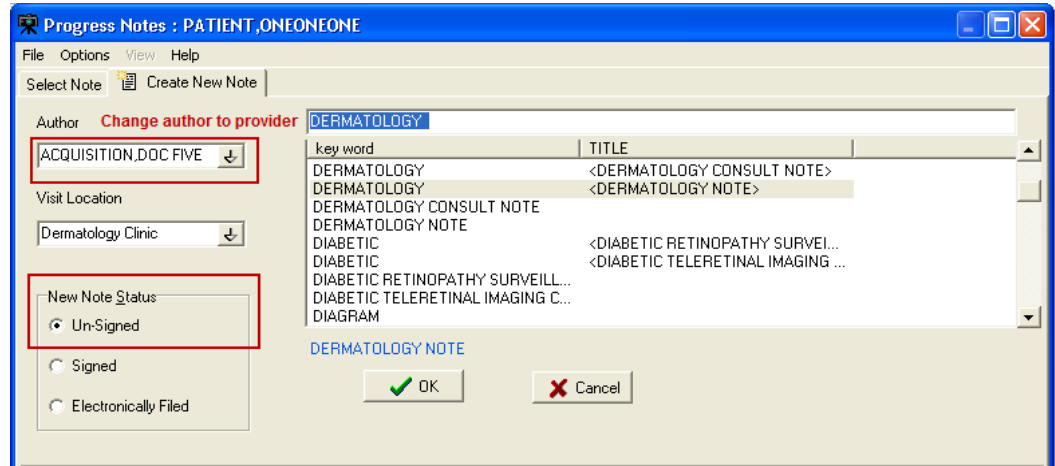
1. Logon to VI capture/select the patient if running as a standalone system.
2. Click the configuration button created for the particular capture type.
Some index fields will be filled in depending on how the configuration button was created.

The capture staff will determine what fields need to be filled in.



3. Click the **Select Progress Note** button.

4. Under the **Create New Note** tab:
 - a. Change the **Author** by typing in a few initials of the last name, all matching entries are listed.
 - b. Select the **Visit Location**.
 - c. Select the **New Note Status**.
 - d. Select the note **TITLE**.
 - e. Click the **OK** button.



5. On the main Capture window the **Note Date** and **Document Image Date** will need to be filled in; and are based on site policy, (could be date of service, date of scan, date of order etc...) both fields could have the same date or different dates.


6. Click the **Capture** button.

The item scans and is viewable in the capture window.

Use the tools for best view.

7. Click the **Image OK** button.

A confirmation window displays on the screen

8. Click **Image OK**  or **Cancel** (if you click cancel the document is removed from the screen and you can re-scan), if you click OK and it is a Single Saved Capture the document will be saved.

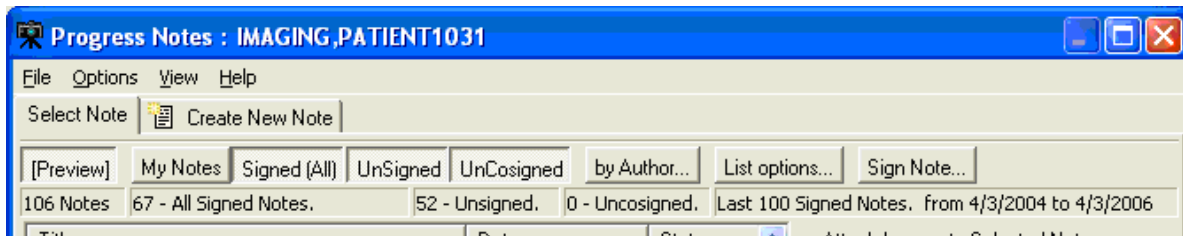
The provider will get an Alert in CPRS that they have an unsigned note.

Until the provider signs the note other users will not be able to see the attached document. The exception being if the site has setup specific business rules to allow others to view images when there is an unsigned note.

Progress Notes Window Options

Filtering Options for Select Progress Note List

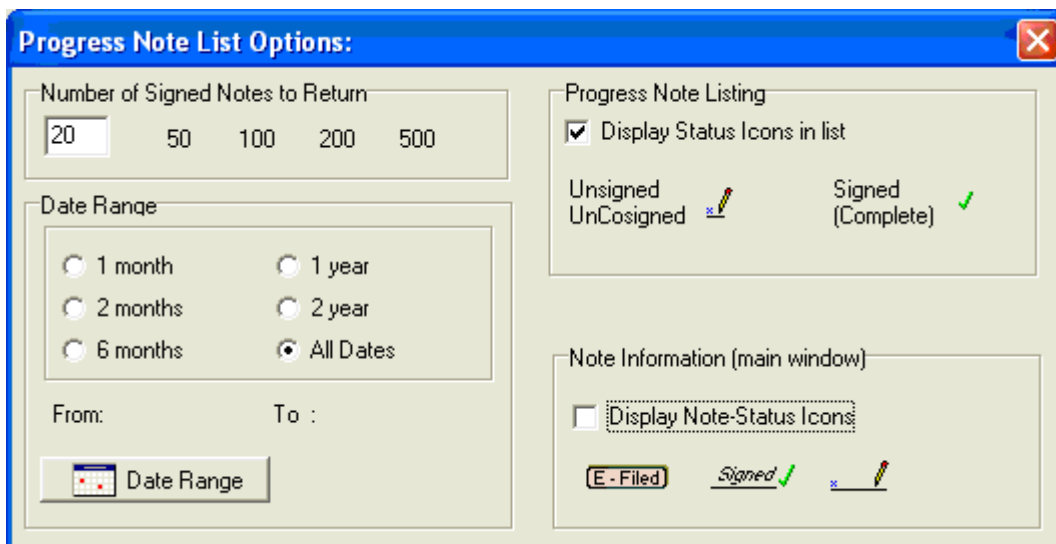
In the button bar used to filter the list of available Progress Notes, the **Signed**, **Unsigned**, and **UnCosigned** buttons can be used in any combination.



You can also use the My Notes button to list only your own notes.

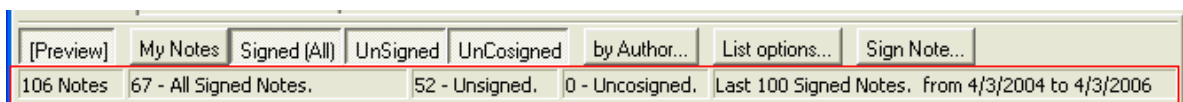
Preferences for Progress Notes

You can customize aspects of the Progress Notes window such as the number and date range of notes to retrieve, and whether or not to use status icons in the notes listing and in the main Capture window. The Progress Note List Options dialog box can be accessed from the Progress Notes window by clicking **Options | List Options**, or by choosing the **Select Note** tab and clicking the new **List Options** button.



Note Listing Status Bar

The status bar displays the total number of notes listed, the counts of each selected status, the total number of notes listed, and the selected date range.



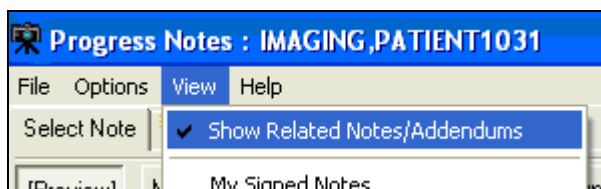
Consults

If the **Title** of the new Note is a 'Consult' title VistA Imaging will display a list of Patient Consults and require that the user make a selection.

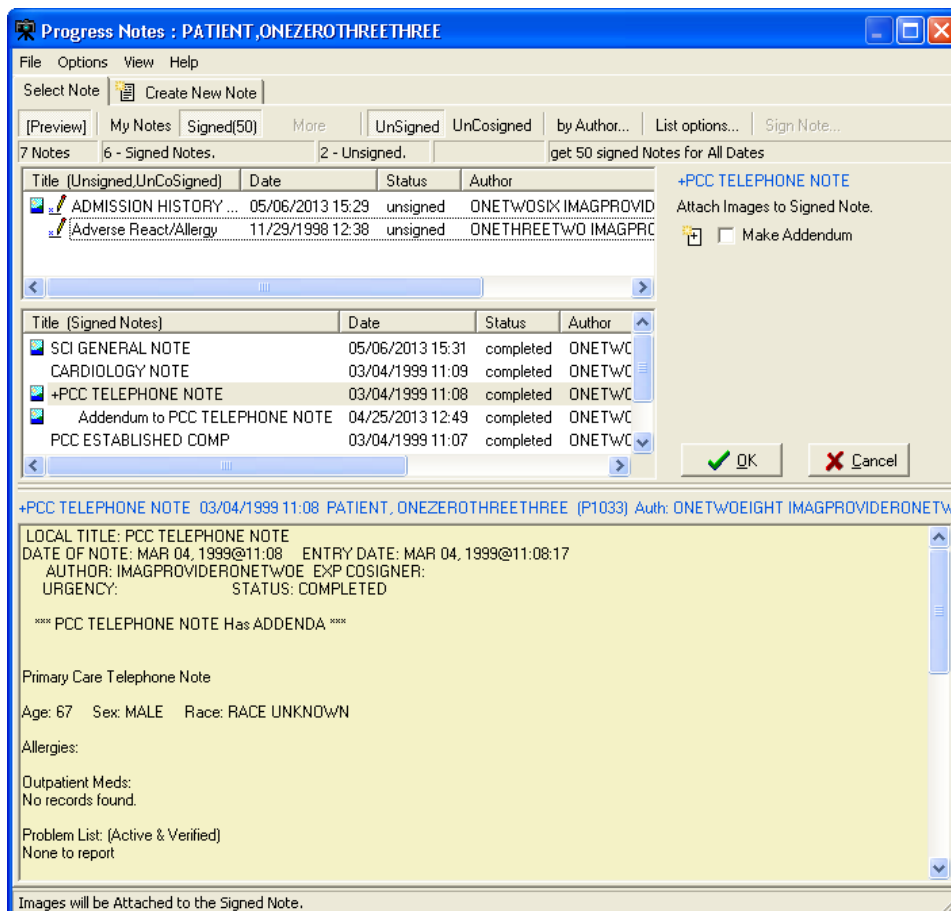
When the New Note is successfully saved, and the Status of the New Note is Signed or Electronically Filed, the Consult status will be updated to **Complete**.

NOTE: If the title selected is Consult Title and the patient selected does not have any consults, a message dialog indicating the patient does not have any consults will be displayed.

Show Related Notes / Addendums

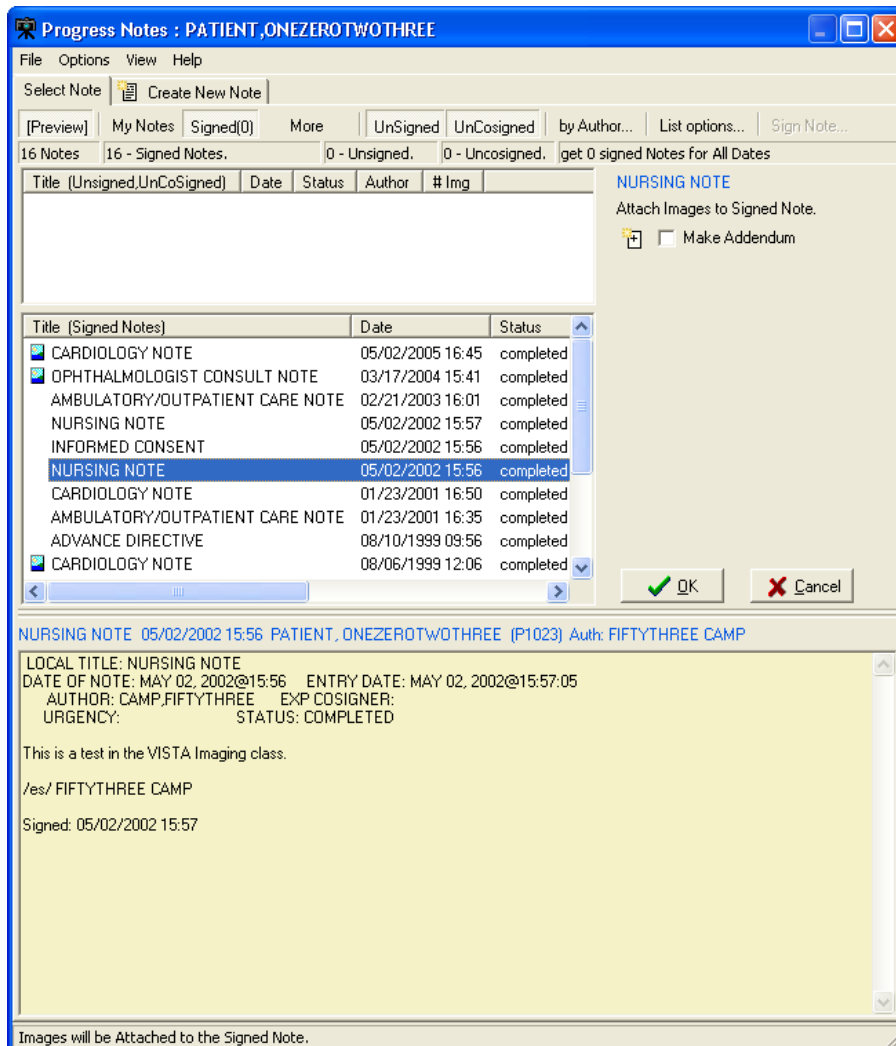


When the menu option **View|Show Related Notes/Addendums** is selected, all signed notes and the addendums related to the signed notes are displayed in a 'Tree Style' list. Addendums are listed directly under the note and are indented. Unsigned notes are displayed in a separate pane.



When the menu option **Show Related Notes/Addendums** is not checked, a list of completed Notes and Addendums for the patient, sorted by date displays.

The following screenshot shows a list of completed notes/addendum for a patient when the option **Show Related Notes/Addendums** is not checked.



When the **Show Related Notes/Addendums** option is checked sorting of the columns is disabled.

Workload Credit

Users of VistA Imaging Capture can create new Notes to associate with captured images (scanned or imported images/ documents). By default, the visit status of new notes created in VistA Imaging Capture is set to 'Historical'. This ensures that the visit is not used for workload credit.

Historical visit

Historical visit status is used for documenting a visit that occurred sometime in the past (exact time may be unknown) or at some other locations (possibly non-VA) and is not used for workload credit, they can be used for setting up the reminder maintenance system.

- By default, visit status *via VistA Imaging Capture* is set to historical. This ensures that the visit is not used for workload credit for documents captured.

Consults

When a 'Consult' Note is created in VistA Imaging Capture the user must select from a list of Patient Consults.

The Consult is marked as 'Complete' when:

- (a) The Image Capture process is successful, **and**
- (b) The resulting status of the Note is 'Complete' by signing, or electronically filing the Note.



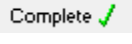

Frequently Asked Questions

The scanning FAQ document is posted on the HIM website under "Document Scanning" at <http://vaww.vhaco.va.gov/him/Scanning.asp>.




The document scanning webpage also contains links to scanning websites, examples of position descriptions/standards and examples of policies and procedures.

Progress Note Icons

This section explains some of the icons that are used for actions related to progress notes and to the status of progress notes.

- Create New Note  Used when creating a new note.
- Make Addendum  Used when adding an addendum to a selected note.
- Completed Note  Indicates that the status of the selected note is completed.
- Unsigned Note  Indicates that the status of the selected note is unsigned..

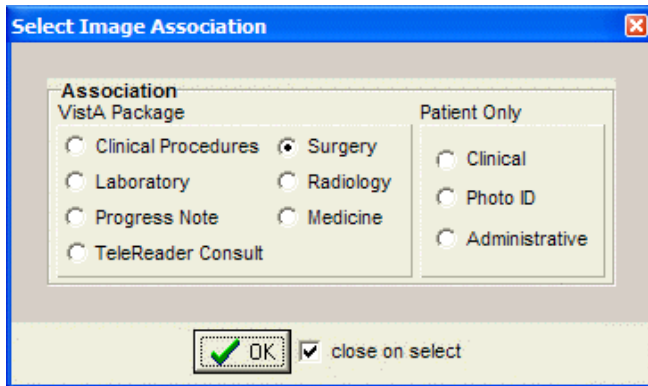
The intended status of a note can be:

- Signed ()
- Electronically Filed () or
- Unsigned ()

Selecting a Surgical Case

The Surgery Case List is used to select a case to be associated with the captured images. After Selecting a Patient, choose option Surgery after clicking the Association

 button in the configuration settings toolbar. Click **OK**.

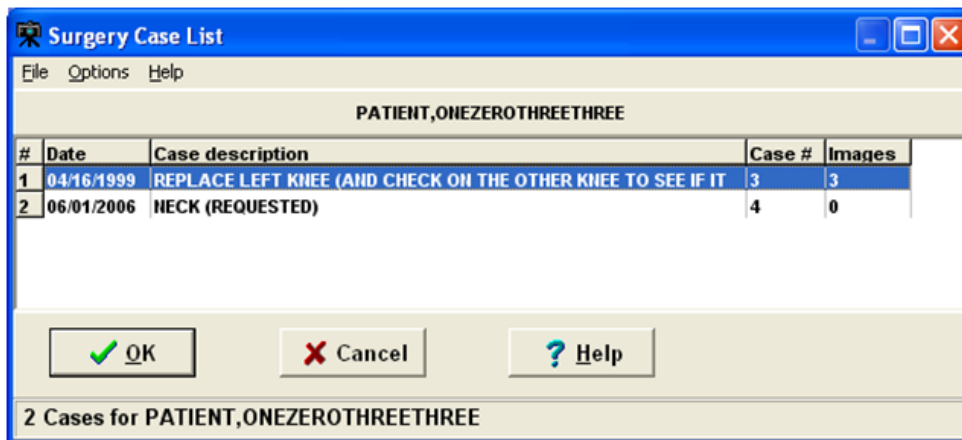


Click the **Select Surgery Case** button located on the left side of the Capture window.

Select the case to be associated with the documents you will be scanning.

The Surgery Case List is used to select a case to be associated with the captured images.

Select an entry from the list and click the 'OK' button. See image below.



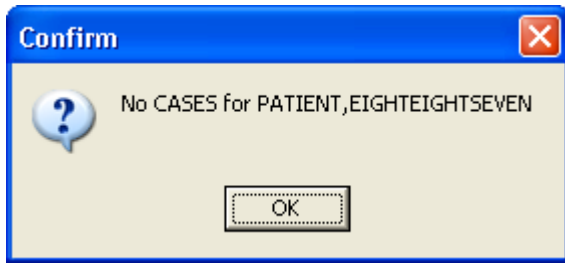
The Surgery Case List box will close.

Notes:

The widths of the columns can be changed by selecting the column dividers and dragging them to the left or right. There are alternate ways to select a Surgery Case from the list.

See Import Image Directory.


If there are no Surgery Cases associated with the selected Patient, a warning message is displayed as shown below.

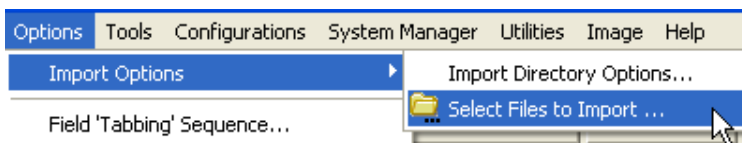


Select Directory of Images to Import

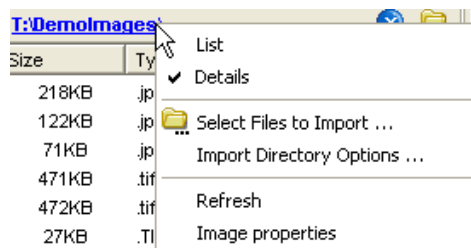
Vista Imaging Capture is in 'Import Mode' when 'Import' has been selected as the input Source. In Import Mode, the directory from which images are to be imported must be selected.

Open the 'Select 'All files' in Directory (or Selected Images)' window, using one of the following options:

- Clicking the folder  button in the left frame of the capture window.
- Selecting the menu option '*Options|Import Directory*'

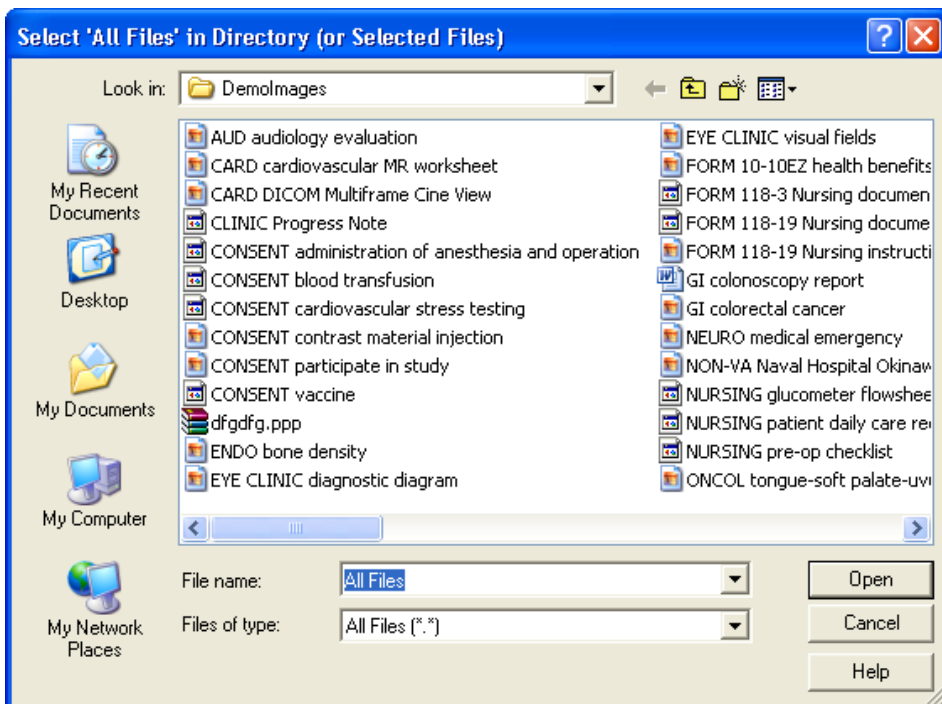


- Click the Import directory that is displayed, or right-click the Import directory file list and select “Select Files to Import” Option.



- Select the Drive, Directory and file mask (*.TIF). The images in that directory matching the mask will be displayed in the file list box.
- When the 'Open' button is clicked, the image files will be redisplayed in the Import directory file list box on the Main Capture window.

File Name	Size	Type	Modified
AUD audiolog...	218KB	.jpg	10/02/2003 9:1 ...
CARD cardiov...	122KB	.jpg	10/02/2003 9:1 ...
CARD DICOM ...	71KB	.jpg	10/02/2003 9:1 ...
CLINIC Progre...	471KB	.tif	09/29/2003 10:...
CONSENT ad...	472KB	.tif	10/02/2003 9:0...
CONSENT blo...	27KB	.TIF	08/07/2003 11:...
CONSENT car...	471KB	.tif	10/01/2003 11:...
CONSENT con...	204KB	.jpg	10/02/2003 9:2...
CONSENT par...	601KB	.jpg	10/02/2003 9:3...
CONSENT vac...	1KB	.TIF	04/01/2004 2:0...
! dfgdfg.ppp.zip	9KB	.zip	10/28/2009 6:4...
ENDO bone d...	103KB	.jpg	10/02/2003 9:3...
EYE CLINIC di...	143KB	.jpg	10/02/2003 9:3...



Notes:

The images displayed in the file list box in this window are for display purposes only. Images aren't selected from this window, just the directory.

If 'Save as default' is checked, the Drive, Directory and file mask will be saved by the system and used as defaults the next time this window is opened.

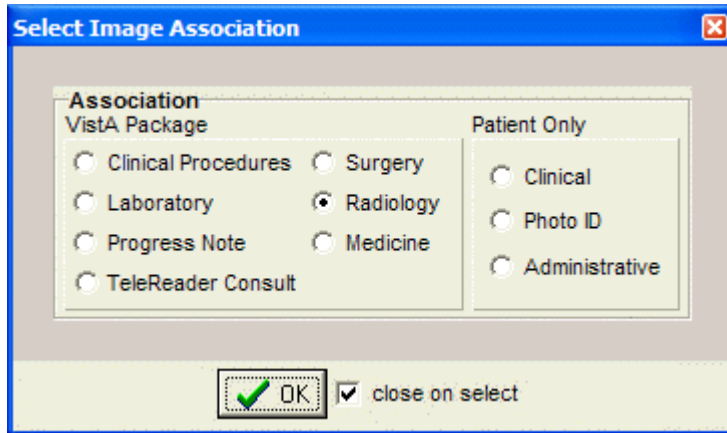
File mask or file filters are used to limit which files will be displayed in the file list box. The most familiar mask is '*.*'. This will display all files. Alternate masks can be typed, or selected from the list.

Verify that the left side of the Capture window shows appropriate values for Study Performed, Case Date, and Image Description. For information on entering values in the other fields, see the *Image Index Guidelines* section.

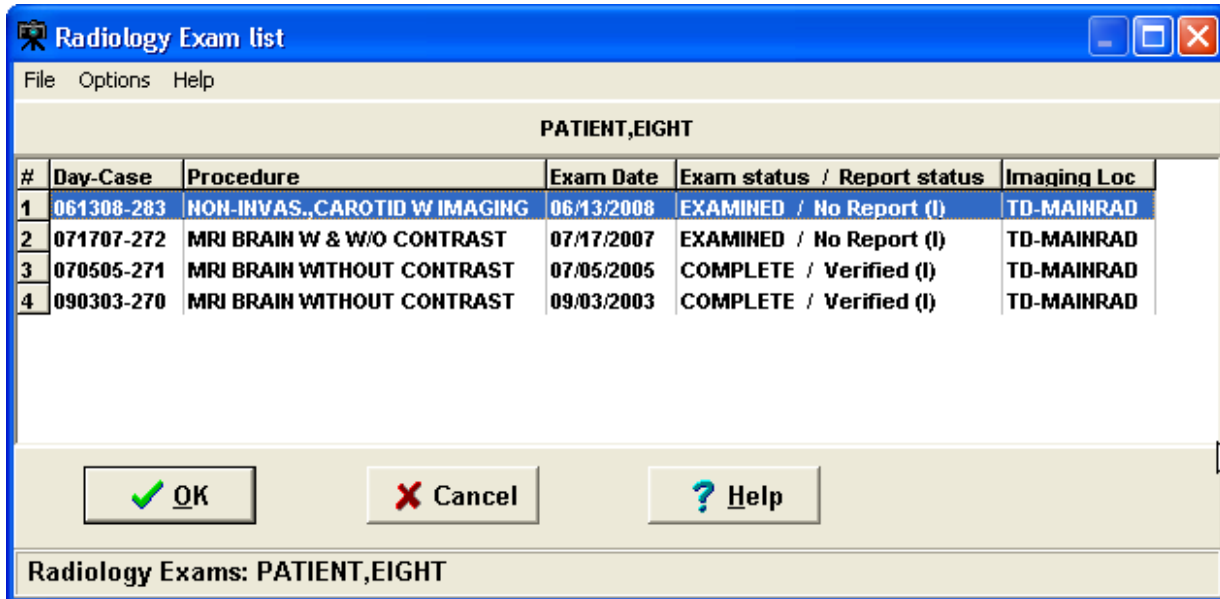
Selecting a Radiology Exam

After Selecting a Patient, choose option Radiology by clicking the Association

Association: button in the configuration settings toolbar. Click OK.



Click the **Select Radiology Exam** button located on the left side of the Capture window. Select the procedure that you want to associate with the documents you will be scanning, then click OK.

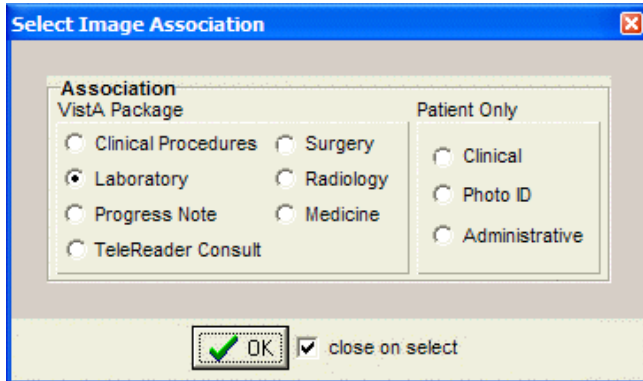


Verify that the left side of the Capture window shows appropriate values for Study Performed, Exam Date, Case Number, and Image Description. For information on entering values in the other fields, see the *Image Index Guidelines* section.

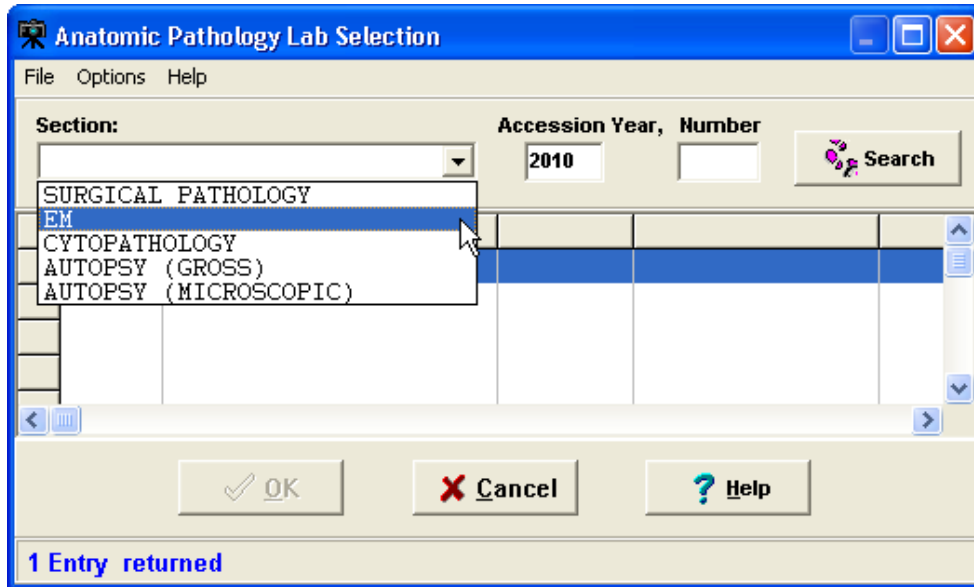
Selecting a Laboratory Specimen

After Selecting a Patient, choose option Laboratory after clicking the Association

Association: button in the configuration toolbar. Click OK.



- 1) Click the **Select Laboratory Specimen** button located on the left side of the Capture window.



Note: If selected lab is for a different patient then the patient in the main capture window changes to match the selected lab.

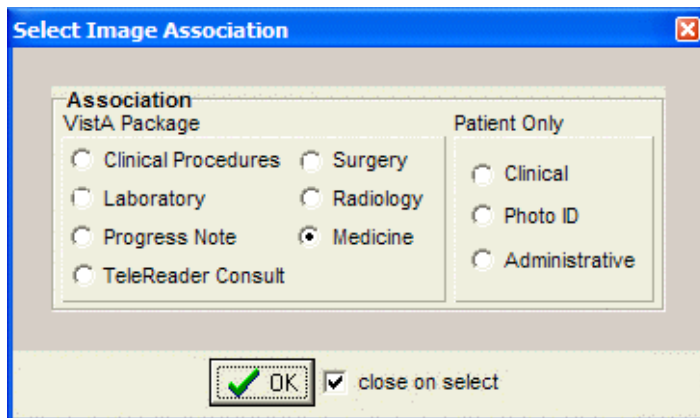
- 2) Click the arrow next to the Section list, and select the section that you want to display a list of lab specimens for. Then enter the accession year and number in the Accession Year and Number boxes.

- 3) Click Search. A list of specimens for the section you selected will be displayed.
- 4) Select specimen, then click OK. The Anatomic Pathology Lab selection window will close.
- 5) Select a value for the Objective field (use “1” if there is no applicable objective).
- 6) Select a value for the Stain field (use “NONE” if there is no applicable stain).
- 7) Verify that the left side of the Capture window shows appropriate values for the lab-related fields, Study Performed, Specimen Date, Accession No., and Image Description.

Selecting a Medicine Procedure

After Selecting a Patient, choose option Medicine after clicking the Association

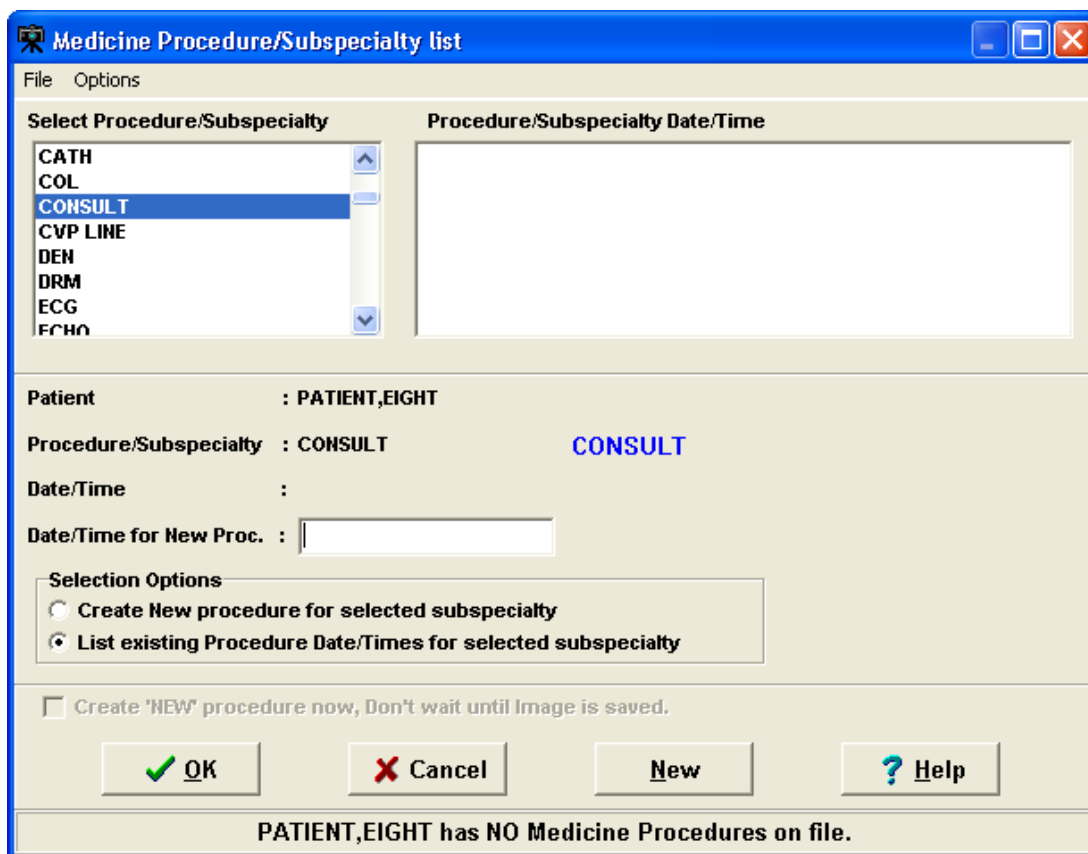
Association: button in the configuration toolbar. Click OK.



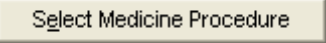
You can either select an existing medical procedure, or create a new medicine procedure.

Selecting an Existing Medicine Procedure

The screenshot of the Medicine Procedure/Subspecialty window is below.



To select an Existing Medicine Procedure follow the steps below:

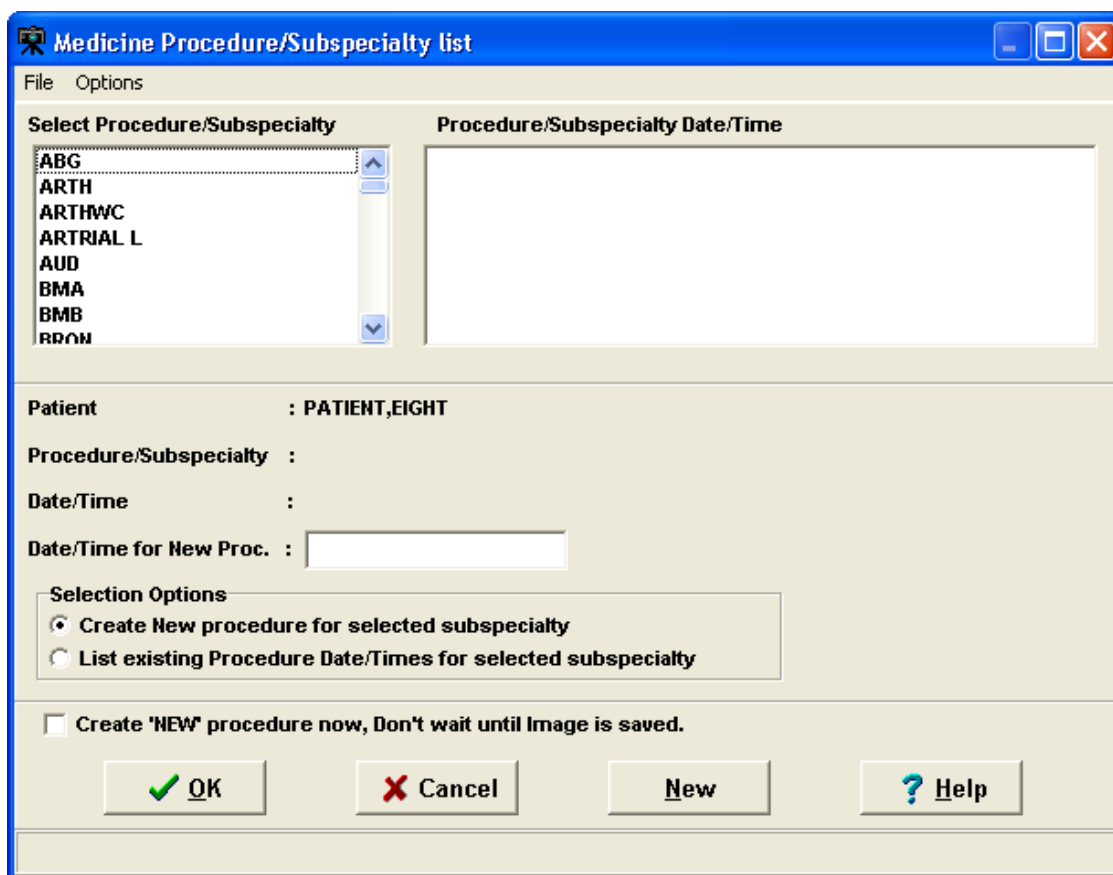
- 1) Click the  button located on the left side of the Capture window. The Medicine Procedure/Subspecialty dialog will open.
- 2) Double-click a Procedure/Subspecialty.
- 3) Then click to select a Procedure/Subspecialty Date/Time
- 4) Click OK or double-click the procedure to choose. The Medicine Procedure/Subspecialty list will close.
- 5) Verify that the left side of the Capture window show appropriate values for Study Performed, Procedure Date, and Image Description. For information on entering values in the other fields, see the *Image Index Guidelines* section.

Notes:

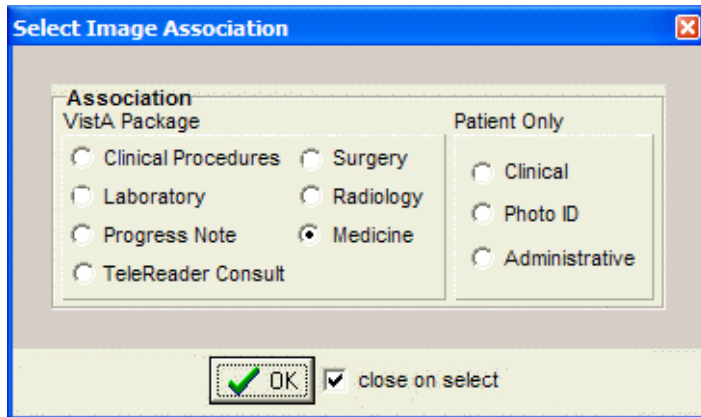
- The Procedure/Subspecialty will remain selected when this window is opened again.
- The Procedure/Subspecialty list can be limited to certain procedure types based on assigned 'Imaging Capture keys'. In the Selection area located near the bottom of the dialog, click the second option.

Creating a New Medicine Procedure

Shown below is a screenshot of the Medicine Procedure/Subspecialty list window.



After Selecting a Patient, choose option Medicine after clicking the Association **Association:** button in the configuration toolbar. Click OK.



Click the **Select Medicine Procedure** button located on the left side of the Capture window. The Medicine Procedure/Subspecialty List dialog will open.

Create New Procedure for Selected Subspecialty

- To create a new procedure, before the image is saved.
- The current date/time is used for the procedure.
- Click in the box to Create 'NEW' procedure now, or the procedure is created when clicking the OK button on the main capture window.

In the list on the left side of the window, select the specialty for the procedure that you are creating.

NOTE: Depending on the Security Keys assigned to user, some procedures may or may not be visible.

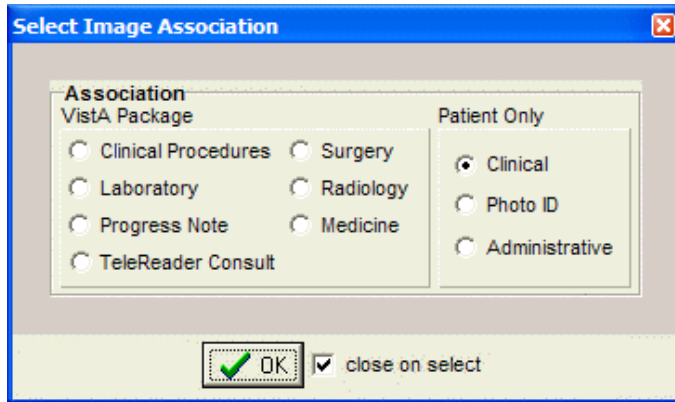
In the Selection area located near the bottom of the dialog, click the first option and Click OK.

The Medicine Procedure/Subspecialty list will close, and the new medical procedure will be created.

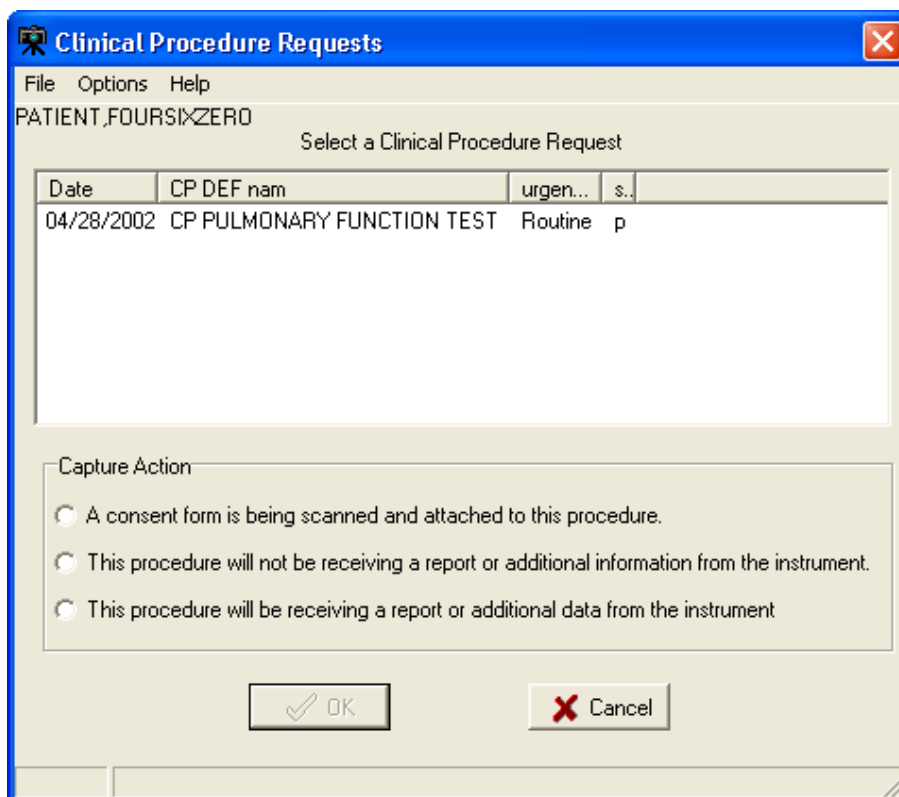
Verify that the left side of the Capture window show appropriate values for Study Performed, Procedure Date, and Image Description. For information on entering values in the other fields, see the *Image Index Guidelines* section.

Selecting a Clinical Procedure

After Selecting a Patient, choose option Clinical Procedure after clicking the Association button in the configuration toolbar. Click OK.



Click the button located on the left side of the Capture window, just below the patient's name. The Clinical Procedure Requests window will open.



Select the Clinical Procedure you want to associate with the image you are capturing. Select one of the three Capture Action options near the bottom of the dialog (see explanation below).

Capture Action

Select	If the following is true
A consent form is being scanned and attached to this procedure.	The scanned document is a consent form. 'CONSENT' will be added to the Image Description field. (Additional instrument results can still be linked to the procedure request later).
This procedure will NOT be receiving a report or additional information from the instrument.	The scanned document is the last image to be captured before the associated note is signed.
This procedure will be receiving a report or additional data from the instrument.	There will be additional images or report files added to this procedure. A staff member will use the CPUUser software to identify these reports before the associated note is signed.

After choosing the appropriate option, click the OK button.

If the Visit Listing box displays, select a date from the Visit list, or enter a new visit date in the New Visit Date/Time box. Then click OK to close the Visit listing box.

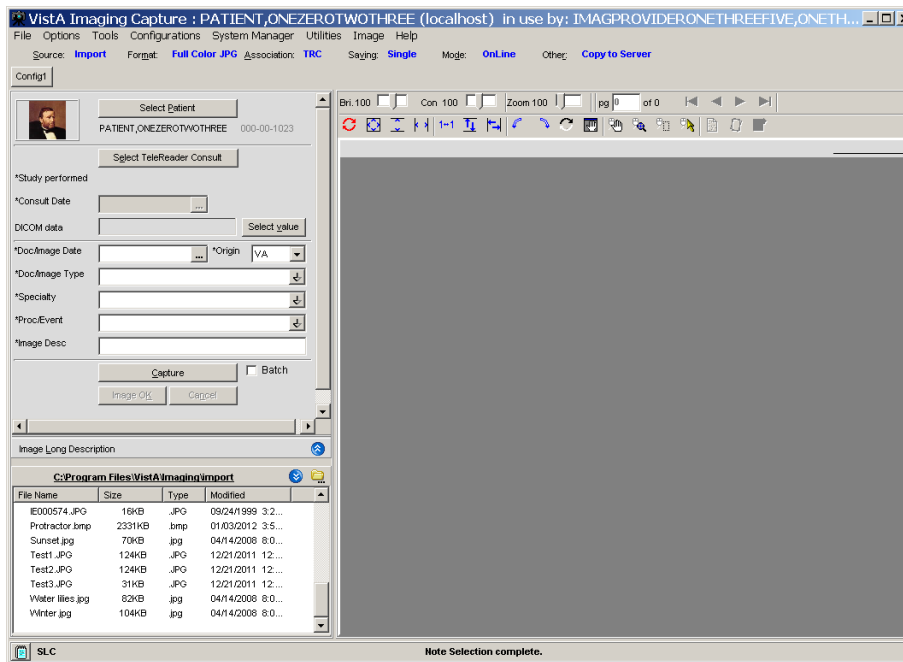
Click OK when finished.

After selecting a clinical procedure, verify that the left side of the Capture window shows appropriate values for Study Performed, Procedure Date, and Image Description.

Selecting a TeleReader Consult

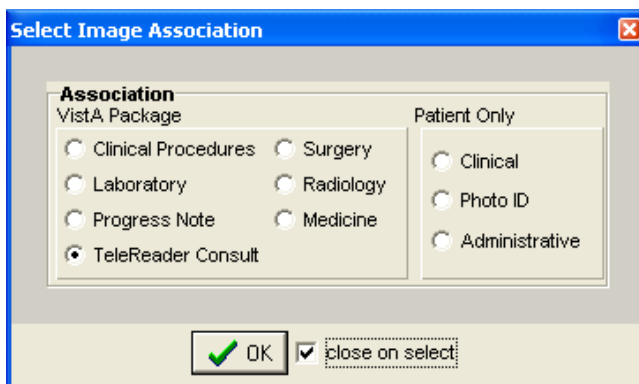
In the Clinical Capture application window, click the **Association** button (below the menu bar) to associate your captured image(s) with a service or specialty.

Note: You can also create and click a configuration button to associate a captured image to a TeleReader Consult.



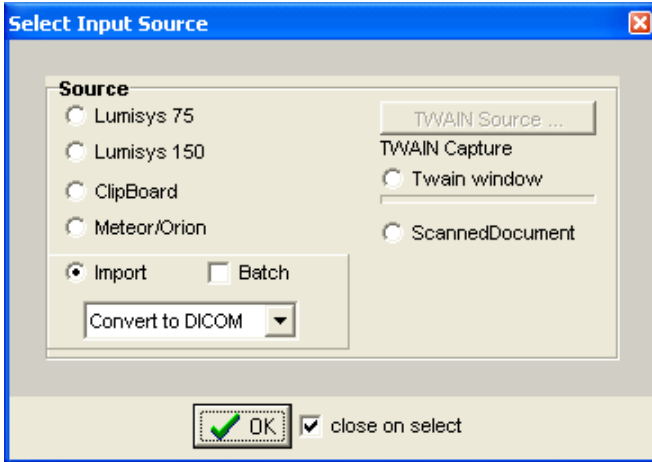
The Select Image Association dialog box is displayed.

Important: The options should be enabled as shown. If they are disabled (grayed out), contact your system administrator to configure your setup properly.



Select the **TeleReader Consult** option (clicking OK is not necessary when the close on select checkbox is selected, as shown).

Note: When TeleReader Consult is selected in the Select Image Association dialog box, the Import option is selected in the Select input source dialog box and “Convert to DICOM” is displayed in place of “Copy to Server”.

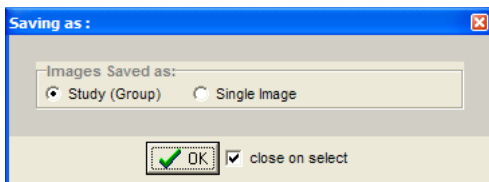


Select the appropriate patient:

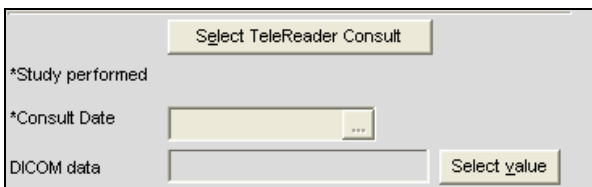
The patient’s photo, name, patient ID number, and Social Security number are displayed.

Click the **Saving** button (below the menu bar).

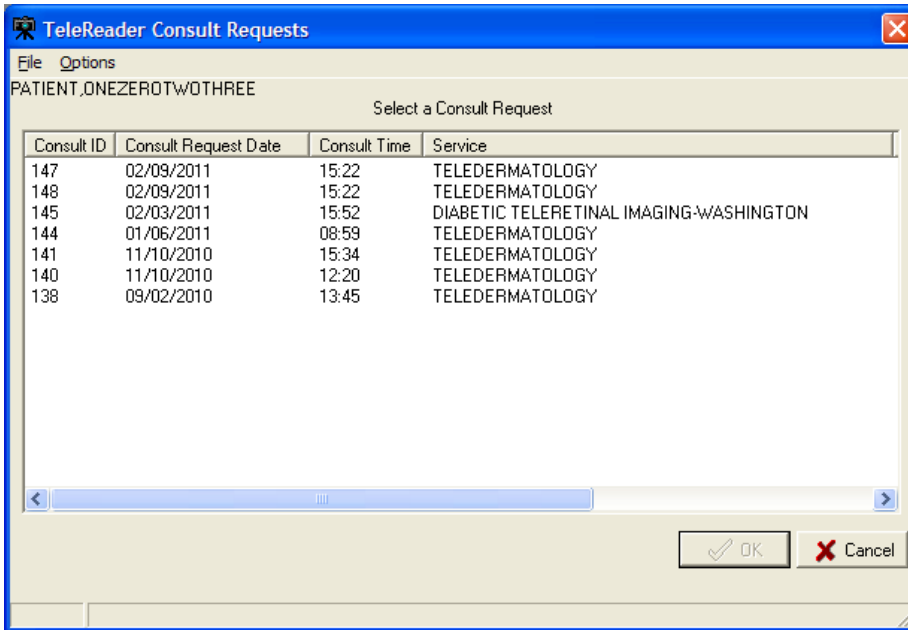
In the Saving as window displayed, select **Study (Group)** or **Single Image** (clicking OK is not necessary when the close on select checkbox is selected, as shown).



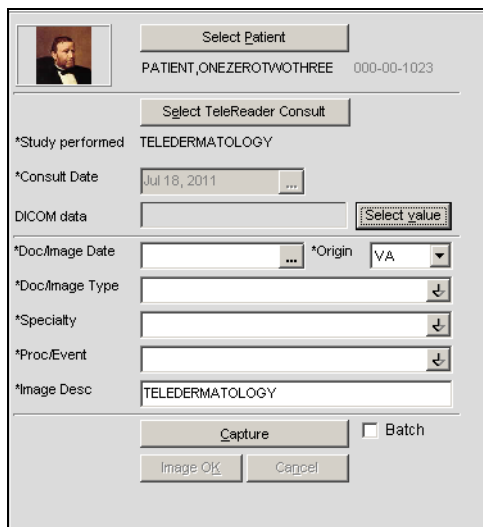
Click the **Select TeleReader Consult** button now displayed.



The TeleReader Consult Requests window is displayed.



Select the consult request that you are using to associate with the images and click **OK**. In the Capture window, the consult date is filled in. The service (Teledermatology in this example) populates the fields for Study Performed and Image Desc.

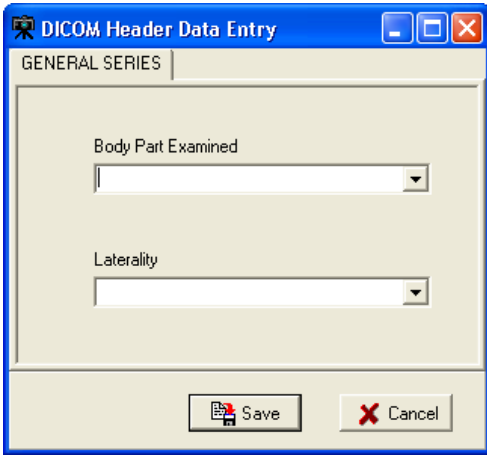


Select the appropriate data for the Doc/Image Date and Origin fields.

Select **IMAGE** or **CONSULT** for the Doc/Image Type field.

Select the appropriate data for the Specialty and ProcEvent fields.
Click the Select Value button next to the DICOM data field.

The DICOM Header Data Entry window is displayed.



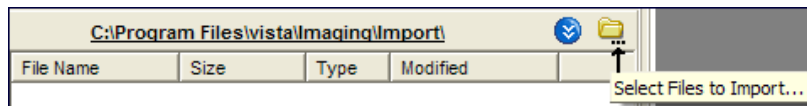
Select data for the fields for Body Part Examined and Laterality, and click **Save**.

The image is converted to a DICOM file format (*.dcm file).

In the lower left list box, import the photo(s) in one of two ways:

Important: The photos must be uncompressed JPEG or TIFF files.

- If you are uploading the photos to a drive, click the **Select Files to Import** icon shown, navigate to that drive and select it to make all the photos available.



- Or, copy all the photos to the default C:\Program Files\Vista\Imaging\import folder shown.

All the imported files are displayed in the lower left pane.

Image Index Guidelines

All captures are indexed. The capture window has various index fields that can be filled in manually or saved as part of a configuration. Fields that have an asterisk to the left of the Index field title are required and must be filled in for the document/image to be saved.

Indexing Documents

It is essential that scanned documents are properly indexed (categorized) so they can be easily retrieved in the future. The following sections explain how this is done for scanned documents.

Entering the Date and Origin

Entering 'Type,' 'Specialty,' and 'Proc/Event' Values

Entering Image Descriptions

NOTE: Additional fields will be present for documents that are attached to Radiology or Lab reports. Values for these fields are selected as described below.

Entering Date and Origin

When a scanned document is attached to a progress note or report, the Capture program will automatically use the date of the progress note or report. However, if the scanned document is to be linked directly to a patient, you will need to enter the date manually.

The Origin field, which indicates if the document is an internal VA document or if it is from an external source, will default to VA.

To enter the date and set the document origin Use the mouse or the Tab key to select the Document Date field. (Depending on your configuration settings, this field may appear as the "Doc/Image Date" field.)

Type the date in MM/DD/YY format. Enter the date that the document was created or signed (not the date the document was scanned). The scanning date is saved automatically.

If you need to change the value for Origin, select the Origin field, and choose the appropriate value from the pull-down list.

Entering 'Type,' 'Specialty,' and 'Proc/Event' Values

The Type, Specialty, and Proc/Event fields will typically need to have values selected by the user. (If "Patient (Admin)" is selected as part of the current capture configuration, the Specialty and Proc/Event fields will not be present.)

These fields may also have pre-defined values specified as part of the active capture configuration. Pre-defined values can be changed if needed.

To set Type, Specialty, and Proc/Event, select the field you want to enter a value for.

A value must be present in the Type field to complete a capture. Values for Specialty and Proc/Event should be set according to the policies at your site.

If are you not sure which values should be entered for these fields, contact your Clinical or Imaging Coordinator for guidance.

Use the pull down list to select a value appropriate to the document being scanned. You can choose a value by:

- Clicking the arrow to open the pull-down list, and then clicking a value.
- Typing the first letters for the value you want to select. Matching values will be displayed automatically. When the desired value is displayed, press Tab to move to the next field.

Entering Image Descriptions

The Capture program provides two areas where descriptions can be entered: the Image Description field and the Long Image Description field.

- The Image Description field will have a value automatically added when you select a progress note or report. If there is no progress note or report selected for the scanned document, the Image Description field will automatically have a value added when you select a Document/Image Type.
- The Long Image Description field is a free text field that can be used to record additional information about a scanned document. The contents of both of these fields can be edited by clicking them with the mouse, and then typing the information you want to enter.

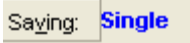
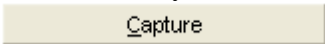
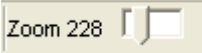




Image Capture Options


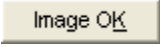

This section explains how a document is actually scanned using the Capture program. Please note that the setup at individual sites may alter how scanning is performed.

NOTE: If you are scanning several documents with similar characteristics, use the Hold Value feature.

Documents can be scanned as single images, or as a part of a group (a study). The method you should use depends on the type of scanner and on the scanning procedures at your site.

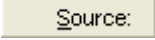
Scanning Documents as a Single Image

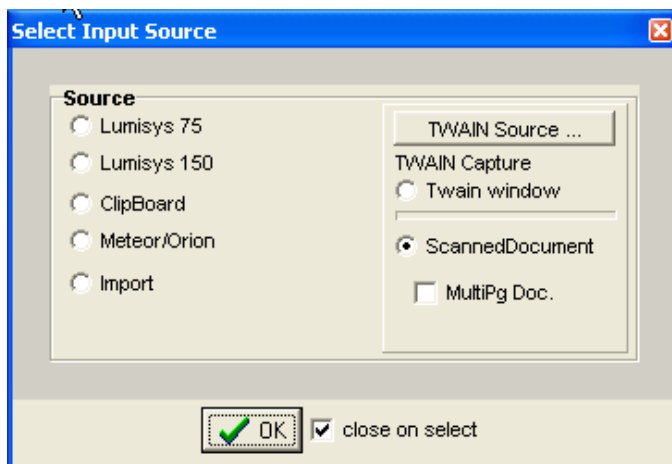
- Verify that the patient referenced on the document to be scanned matches the current patient shown in the Capture window.
- Verify that “Single” is shown in the Capture window configuration bar.

- Document will be saved as a "Single Image" If not “Single” click Saving Button to change the option to “Single”
- Place the document to be scanned into the scanner’s feeder or onto flatbed.
- If the document has several pages, and if you are using a scanner equipped with a document feeder, verify that is checked. This will allow you to scan all pages in the document into a single image file. Click  or press ALT+C to begin scanning.
- If the TWAIN window opens, you can accept the current scanning parameters by clicking Scan, or you can alter the settings (such as page size), and then click Scan.
- When the scanned document is displayed on the right side of the Capture window, check the quality of the image.
- Use the scroll bars and the Zoom slider  to ensure all text is visible and legible. If needed, the DeSpeckle tool  can be used to remove stray pixels (black dots) from the image.
- If the image is rotated or upside down, use the orientation buttons to correct the problem. If the image is slightly crooked, use the DeSkew  button to straighten the image.
- Click to flip or rotate image vertically .
- Click to flip or rotate image horizontally .

- If the image is a multi-page document, use the paging controls to check each page.
- If annotations are necessary, click the Annotations  button to open the Annotation toolbar and make annotations.
- If image quality is acceptable, click  or press ALT+K.
- If the image is NOT acceptable, click Cancel  or press ALT+L, then re-scan the image.

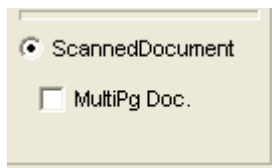
Scanning Multiple Pages

To scan multiple pages, select “MultiPg Doc.” option as shown below:

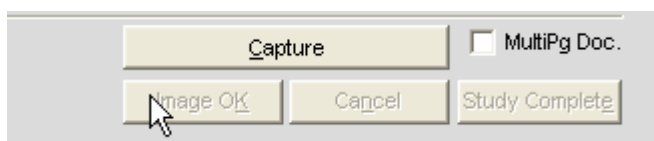
Click the Source Button  in the Capture Window and chose Scanned Document Option.



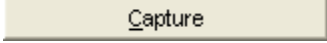
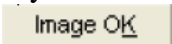
Under the Scanned Document, check the MultiPg Doc option to scan multiple pages.

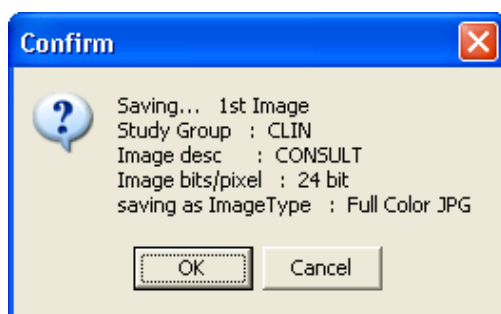


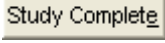
Or the other alternative is to choose the same Option, Next to the Capture Button in the Capture Window.

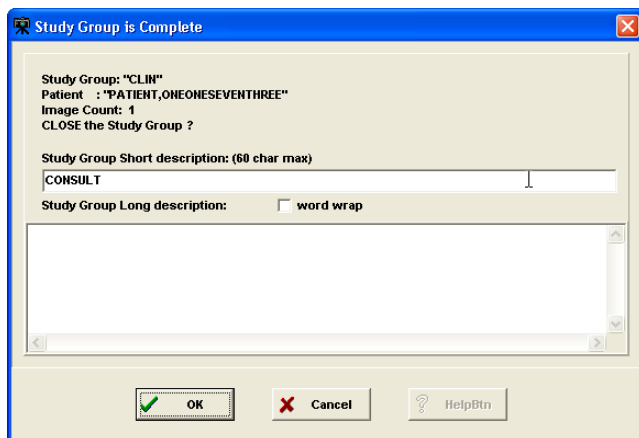


Scanning Documents as a Group (Study)

- Verify that the document to be scanned matches the current patient shown in the Capture window.
- Verify that “Study” is shown in the capture window configuration settings bar.
Saying: **Study** Document will be saved as part of a group of images.
- Place the document you want to scan into the scanner’s feeder or onto the flatbed.
- If the document is made up of several pages, and if you are using a scanner equipped with a document feeder, verify that is checked. This will allow you to scan all pages in the document into a single file.
- Click **Capture**  or press ALT+C to begin scanning. If the TWAIN window opens, you can accept the current scanning parameters by clicking Scan, or you can alter the settings (such as page size), and then click Scan. Once Image is scanned, and checked for quality, click the Annotations button if you want to add annotations. To finish scanning, click the **Image OK** button . A confirmation window is displayed as shown below. Verify all information displayed is correct and click **OK** to accept scanned image.



- Repeat above steps for each document in the group.
- When you are finished scanning all the documents in the group click the Study Complete  button. The Study Group Complete window will open.



Check the default text in the Study Group Short Description box. If you need to add additional information, click the box and type additional information.

- Click OK to complete the study.

Image Quality







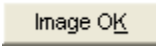
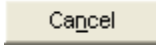
- When the scanned document is displayed on the right side of the Capture window, check the quality of the image.
- Use the scroll bars (not shown) and the Zoom slider to ensure all text is visible and legible. If needed, the DeSpeckle tool can be used to remove stray pixels (black dots) from the image, by clicking the DeSpeckle Button  above the image captured
- Drag to zoom in/out Click to remove "noise"
- If the image is rotated or upside down, use the orientation buttons to correct the problem. If the image is slightly crooked, use the DeSkew  button to straighten the image.
- Click the  button to flip image vertically
- Click the  button to flip image horizontally
- Click the  button to rotate image left or counter-clockwise
- Click the  button to rotate image right or clockwise.
- If the image is a multi-page document, use the paging controls to check each page. Correct any problems found.
- If the image is NOT acceptable, click  or press ALT+L, then re-scan the image. If image quality is acceptable, click  or press ALT+K.

Image Annotation

You can use annotations to make notes, comments, and callouts to transcribe inscriptions, add symbols, and highlight areas of interest. Annotations overlay an image (or document scanned as an image) without altering the image. Although annotations become part of the patient's medical record, they are saved separately from the image in the VistA database.

For example, you can draw an arrow or an ellipse over an area of interest, or you can supply measurements of length or angle, all during the capture process. You can annotate files with the following extensions: .bmp, .dcm, .jpg, .pdf (single page and multi-page), .tga, and .tif (single page). Although you can view images from the Department of Defense (DoD), you cannot annotate them.

You can add annotations before and after the Text Integration Utility (TIU) note is signed. Clinical Capture makes it easy for you to distinguish which annotations were made before and after the TIU note is signed by automatically changing their appearance for you. See *Annotating Images* for more information.


Annotation Permissions

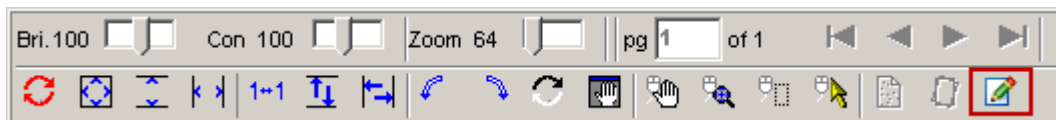
Site administrators can use a set of parameters to set user permissions. These parameters provide the flexibility to grant and deny annotation permissions to individual users at the site, to all users of a particular service at that site, to an entire division associated with that site, or for all users at the site.

Users with the MAG ANNOTATE MGR key have the ability to add, edit, and delete annotations. This security key grants key holders full annotation access at the site at which they have the key to change and delete annotations. This key is intended to support quality assurance checking. Changes made to any annotation will have the identification of the key holder kept with the annotation for audit purposes.

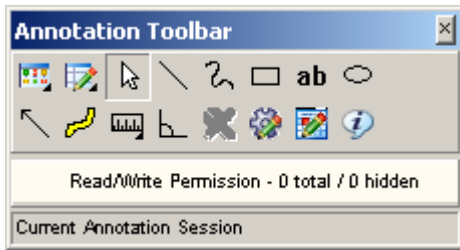
Annotating Images

Annotate images during the image capture process, but before you save the image.

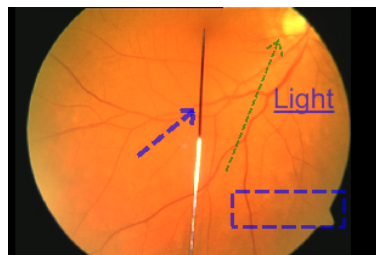
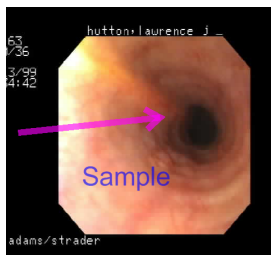
To open the Annotation toolbar and place the image in the Annotation Mode, click the Annotations  button.



The toolbar message area displays the text: **Annotation Mode**. For information about the tools in the Annotation toolbar, see *Annotation Tools*.
















Annotations you make to an image associated with a Text Integration Utility (TIU) note before the note is signed are visually different from annotations made after the note is signed. Annotations you make before the note is signed have solid lines and normal text (as demonstrated in the left image). Annotations you make after the note is signed have dashed lines and underlined text (as demonstrated in the right image).



Annotation Tools

When you open the **Annotation** toolbar, the annotation tools become available. The following list explains the **Annotation** toolbar buttons.


-  Select Annotation button
-  Line button
-  Freehand button
-  Rectangle button
- ab** Text button
-  Ellipse button
-  Arrow button
-  Highlighter button
-  Ruler button
-  Protractor button
-  Annotation Property Editor button
-  Global Annotation Attributes button
-  Delete Annotations button
-  Exit Annotation Mode button

Drawing Lines

Use the **Line** \ button to draw lines on an image.


To draw a line:

1. Click the **Line** \ button.
2. Click and drag the mouse to draw the line on the image.
3. Release the mouse button.


The **Select Annotation**  button becomes active again.




Making Freehand Drawings

Use the **Freehand**  button to hand draw annotations, such as curved lines, or shapes not possible with the rectangle or ellipse. Using the freehand properties dialog box, you can also allow the annotation tool to draw a line from the beginning to the end of the freehand drawing to produce a closed path (see *Setting Freehand Line Properties*). You can modify the shape of the drawing before you save the annotation.

To make a freehand drawing:

1. Click the **Freehand**  button.
2. Click and drag the mouse to make the drawing.
3. Release the mouse button.

The **Select Annotation**  button becomes active again.




4. To make changes to the shape of the freehand drawing, click to select the freehand drawing. Image handles appear all along the drawing.





5. Grab image handles to move them as needed.

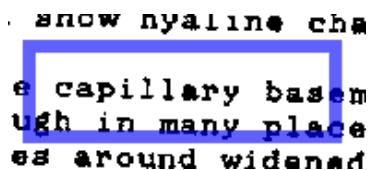
Drawing Rectangles

Use the **Rectangle**  button to draw a clear rectangle on the image (the **Highlighter** button draws a filled rectangle on the image).


To draw a rectangle:

1. Click the **Rectangle**  button.
2. Click and drag the rectangle on the image to the desired height and width.
3. Release the mouse button.

The **Select Annotation**  button becomes active again.





Adding Text to Images

Use the **Text**  button to add text on the image. After you have entered the text, but before you have saved your changes, you can change the size or color of the font (see *Setting Text Properties*). If you need to edit the text after you have left the text box, use the **Text** tab of the Text Properties dialog box (see *Editing Text*).

If you have difficulty seeing the text you add to images because the images are high resolution, you can magnify the area to be annotated after the image is in Annotation Mode or you can set the global text annotation to a larger font (default is **36** point). For lower resolution images, a smaller font can be specified. For information on changing a single instance, see *Setting Text Font Styles and Sizes*. If the majority of the images you work with are low resolution, you may want to set a lower default setting for all annotations (see *Setting Global Annotation Font Attributes*). For information on using the image magnification the zoom tools, see *Image Manipulation Buttons* in the *Completing Capture* chapter of this user manual.

To enter text:

1. Click the **Text**  button.
2. Click and drag the text box on the image to the desired height and width. If you do not drag the text box, you cannot see the text until you finish typing and click outside of the text box.
3. Release the mouse button.

The **Select Annotation**  button becomes active again, but the cursor is blinking in the text box waiting for you to enter text.

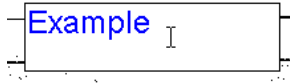


4. If you click outside of the text box without entering text, Clinical Capture automatically inserts the following text in the textbox: **Enter Text Here** (see *Editing Text* for more information).

Enter Text Here


Note: The following characters are illegal: & < >.

5. To enter text in the text box, start typing text in the text box. If you enter any illegal characters, you will not be able to close the text box until you delete them.





6. To edit the text after you have left the text box, see *Editing Text*.
7. When you are finished typing text, click anywhere outside of the text box to close the text box.

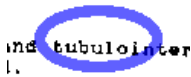
Drawing Ellipses

Use the **Ellipse**  button to draw an ellipse on the image.


To draw an ellipse:

1. Click the **Ellipse**  button.
2. Click and drag the ellipse on the image to the desired height and width.
3. Release the mouse button.


The **Select Annotation**  button becomes active again.




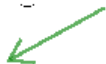
Drawing Arrows

Use the **Arrow**  button to draw an arrow on the image.


To draw an arrow:

1. Click the **Arrow**  button.
2. Click and drag the mouse to draw the line for the arrow.
3. Release the mouse button.


After you release the mouse, Clinical Capture automatically inserts the arrow head where you release the mouse. The **Select Annotation**  button becomes active again.




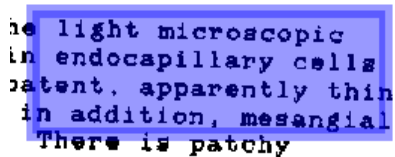
Highlighting Areas

Use the **Highlighter**  button to highlight an area on an image.


To draw a highlight:

1. Click the **Highlighter**  button.
2. Click and drag the mouse to make the highlight fit the area to be highlighted.
3. Release the mouse button.

The **Select Annotation**  button becomes active again.



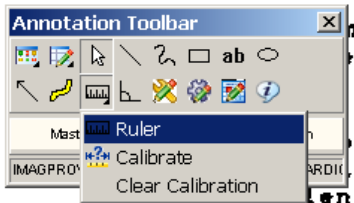
Using the Ruler


Use the **Ruler**  button to measure features in the image. You can use rulers to measure absolute and relative distances on an image.

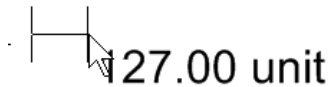
To draw a ruler:

1. Click the **Ruler**  button.

The **Ruler** menu opens.



2. In the **Ruler** menu, click **Ruler** .
3. Click the image and hold the left mouse button down to start measuring.



4. Drag the tool to define the end measuring point.
5. Release the mouse button.



If this is the first time you have used a ruler during this session, the Calibrate Ruler dialog box opens.

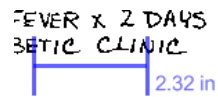
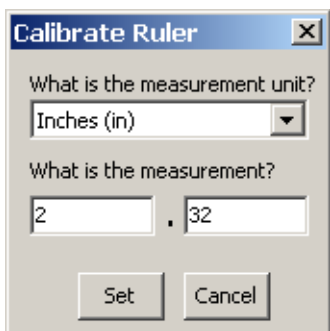
Calibrating Rulers

The Calibrate Ruler dialog box opens the first time you use a ruler during a capture session. You can calibrate rulers against absolute or relative measurements. For an absolute measurement, calibrate the ruler against a known reference point located somewhere in the image and use standard measurement units. To measure relative distances, calculate ratios on the image, and select a relative unit of measurement.

The first time the Calibrate Ruler dialog box opens, you can click **Cancel** to keep the relative unit (calculated based on pixel location). When you draw another ruler after keeping the relative unit, the Calibrate Ruler dialog box opens again to allow you to calibrate an absolute measurement.


To calibrate the ruler, do the following from the Calibrate Ruler dialog box:

1. Select the unit of measurement from the **What is the measurement unit** drop-down list. Selections are: **Centimeter (cm)**, **Millimeter (mm)**, **inches (in)**, and **Relative (unit)**.
2. Enter the numeric measurement in the **What is the measurement** text boxes. Ensure the number corresponds to the selected measurement unit (such as cm, mm, in, unit).




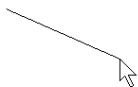
3. Do one of the following:
 - To set the calibration, click **Set**.
 - To cancel the calibration modification, click **Cancel**.

Measuring Angles in Images

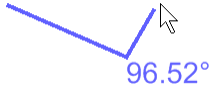
Use the **Protractor**  button to measure angles in the image.


To add a protractor:

1. Click the  **Protractor** button.
2. Click the image to begin the first line segment.
3. Move the mouse to the area to where the first line segment is to end.
4. Click to set the vertex.




5. Drag to the area to where the second line segment is to end.
6. Click the image to end the second line segment.
7. Release the mouse.



The **Select Annotation**  becomes active again.

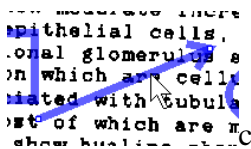
The value of the angle is displayed in degrees near the vertex.

Selecting Annotations


Use the **Select Annotation**  button to select annotations.

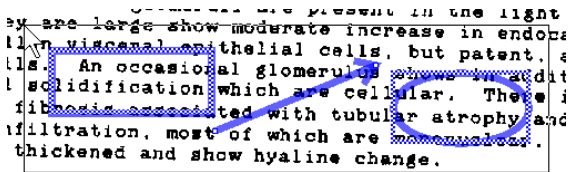
To select one annotation with the Select Annotation  button:

1. Click the **Select Annotation**  button.
2. Click on the annotation.



To select one or more annotations with the Select Annotation  button:

1. Click the **Select Annotation**  button.
2. Drag a marquee around the entire area of the annotations you are selecting.

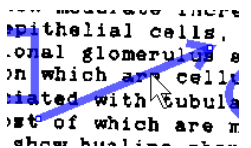


Moving Selected Annotations

Use the **Select Annotation**  button to move annotations.

To move a selected annotation:

1. Click to grab a selected annotation.



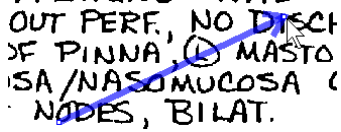
2. Drag the annotation to the new location.
3. Release the mouse button.

Resizing Annotations

Use the **Select Annotation**  button to resize annotations.

To resize a selected annotation:

1. Click to grab a selection border or the image selection handle for an annotation.





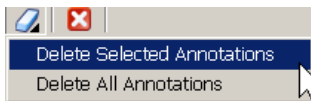
2. Drag the annotation to the new size.
3. Release the mouse.

Deleting Annotations

You can either delete selected annotations or delete all annotations.

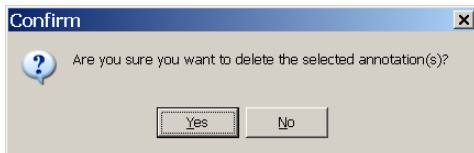
To delete selected annotations:

1. Use the **Select Annotation**  button to select one, some, or all annotations to delete.
2. Click the  **Delete Annotations** button to open the **Delete** menu.



3. Click **Delete Selected Annotations**.

The Confirm delete dialog box opens.



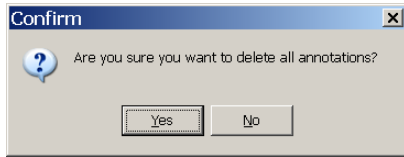
4. Do one of the following:
 - Click **Yes** to delete the selected annotations and close the Confirm delete dialog box.
 - Click **No** to cancel the deletion.

To delete all annotations:

1. Click **Delete All Annotations** from the **Delete Annotations** menu.


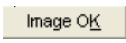


The Confirm delete dialog box opens.

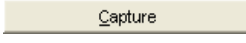
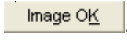


2. Do one of the following:
 - Click **Yes** to delete the all annotations and close the Confirm delete dialog box.
 - Click **No** to cancel the deletion.

Exiting Annotation Mode and Saving Annotations With the Image


Annotations overlay an image (or document scanned as an image) without altering the image. Although annotations become part of the patient's medical record, they are saved separately in the VistA database. The only way to save the annotations is to use either the **Capture**  button or the **Image OK**  button. For best results, enter the required image information (such as date, origin, type, specialty, procedure or event, and image description) before clicking the **Capture** button.

To capture the annotated image and save the annotation changes:

1. Click the **Capture** button  in the Clinical Capture main window.
2. If you need to enter additional information about the image, a dialog box displays prompting you to add the information or correct any errors that may prevent the image from being saved. Click **OK** to close the dialog box and make the necessary corrections.
3. Then, click the **Image OK** button .
4. Click **OK** in the confirmation dialog box that displays.

To exit the Annotation Mode without saving your changes, click the **Exit Annotation Mode** button  on the Annotation toolbar.

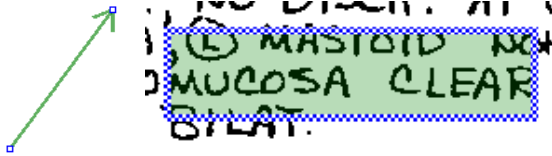
Using the Annotation Property Editor

You can use the **Annotation Property Editor**  button to modify the properties of a selected annotation. The **Annotation Property Editor** button is available when you have only one annotation selected and you have not yet saved the annotation. When you change annotation properties using the property editor, the changes do not get applied to other annotations. For example, you can change the line color of the selected annotation to blue. However, the next time you draw an annotation, the line color will still be the same color as saved in your global annotation user settings. To change annotation properties for all future annotations, use the Global Annotation editor. For more information about setting global attributes, see *Setting Global Annotation Attributes*.

To change attributes of a selected annotation:

1. Select the annotation to be edited.

Image Handles or selection borders appear on the annotation.



2. Click the Annotation Property Editor  button.

The Property Editor dialog box applicable to the selected annotation opens. The Property Editor dialog box provides different tabs and settings, depending on the type of annotation being edited.

The following sections explain steps for each dialog box specific to the type of annotation. For example, to learn how to change the color of a rectangle, see *Setting Rectangle/Highlighter Color Properties*.

Setting Line/Arrow Properties

Use the Line/Arrow Property Editor dialog box to change properties related to lines and arrows. The Line/Arrow Property Editor dialog box has two tabs: Shape and Color.

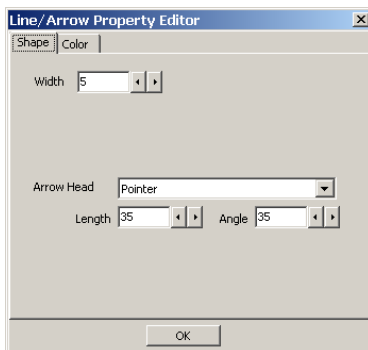
Setting Line/Arrow Shape Properties

Use the Line/Arrow Property Editor **Shape** tab to modify line width, arrow head type, length of arrow head, and angle of the arrow head of the selected line or arrow. For a line annotation, the default setting for the **Arrow Head** drop-down text is: **None**. When the **Arrow Head** drop-down box is set to **None**, the **Length** and **Angle** text boxes are disabled.

To set the line or arrow properties for a selected line or arrow:

1. Click the **Annotation Property Editor**  button.

The Line/Arrow Property Editor dialog box opens.




2. Use the decrease and increase arrows beside the **Width** text box to modify the width of the line for the selected line or arrow annotation. For a thicker line, use a higher number in the **Width** box.


Note: If you have a line annotation selected, the **Arrow Head** drop-down box is automatically set to **None** and the **Length** and **Angle** text boxes are disabled.

3. To change a line to an arrow, select a pointer type from the **Arrow Head** drop-down menu.
4. To modify the arrow head for an arrow, click the **Arrow Head** drop-down menu to modify the arrow head type.

- For a solid arrow, select  **Solid** in the drop-down box.

- For an open arrow, select  **Open** in the drop-down box.

- For a solid pointer, select  **Solid pointer** in the drop-down box.

5. To modify the arrow head length and angle, use the **Length** and **Angle** text boxes.
6. To make the arrow head longer or shorter, use the decrease and increase arrows beside the **Length** text box. The higher the number, the longer the arrow head.
7. To make the angle of the arrow head lesser or greater, use the decrease and increase arrows beside the **Angle** text box. The higher the number, greater the angle.
8. Do one of the following:
 - To save your changes and close the Line/Arrow Property Editor dialog box, click **OK**.
 - To close the Line/Arrow Property Editor dialog box without saving your changes, click the **Close**  button.

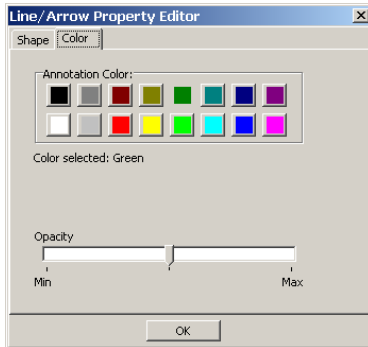
Setting Line/Arrow Color Properties

Use the Line/Arrow Property Editor **Color** tab to select annotation color and opacity for the selected Line or Arrow annotation.

To set the line or arrow color or opacity properties of a selected line or arrow:

1. Click the **Color** tab from the Line/Arrow Property Editor dialog box.

The Line/Arrow Property Editor **Color** tab opens.



2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

The color selected is displayed in the **Color selected** field.

3. To adjust the opacity, move the indicator toward the **Min** or **Max**.

- Moving the indicator toward the **Min** makes the annotation more transparent.



- Moving the indicator toward the **Max** makes the annotation more opaque.



4. Do one of the following:

- To save your changes and close the Line/Arrow Property Editor dialog box, click **OK**.
- To close the Line/Arrow Property Editor dialog box without saving your changes, click the **Close** button.

Setting Freehand Properties

Use the Freehand Property Editor dialog box to adjust the width, color, and opacity of the freehand annotation. You can also allow the annotation tool to draw a line from the beginning to the end of the freehand drawing to produce a closed path.

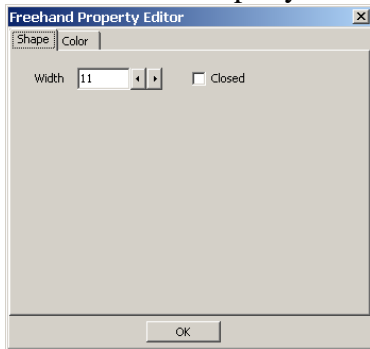
Setting Freehand Line Properties

Use the Freehand Property Editor **Shape** tab to adjust the width of the line for the freehand annotation.

To set the line properties for a selected freehand drawing:

1. Click the freehand drawing to select it.
2. Click the **Annotation Property Editor**  button.

The Freehand Property Editor dialog box opens.



3. To modify the line width, use the decrease and increase arrows beside the **Width** text box. The higher number, the greater the width of the line of the freehand drawing.
4. To produce a closed path for a freehand annotation, click the **Closed** check box.



5. Do one of the following:
 - To save your changes and close the Freehand Property Editor dialog box, click **OK**.
 - To close the Freehand Property Editor dialog box without saving your changes, click the **Close** button.

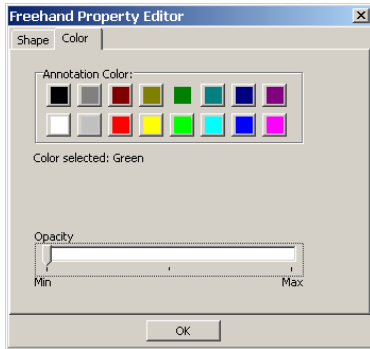
Setting Freehand Color Properties

Use the Freehand Property Editor **Color** tab to change the color and opacity of the selected freehand annotation.

To set the color or opacity properties for a selected freehand drawing:

1. Click the **Color** tab from the Freehand Property Editor dialog box.

The Freehand Property Editor **Color** tab opens.



2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

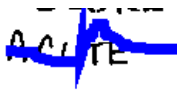
The color selected is displayed in the **Color selected** field.

3. To adjust the opacity, move the indicator to the **Min** or **Max**.

- Moving the indicator toward the **Min** makes the annotation more transparent.



- Moving the indicator toward the **Max** makes the annotation more opaque.



4. Do one of the following:

- Click **OK** to save your changes and close the Freehand Property Editor dialog box.
- To close the Freehand Property Editor dialog box without saving your changes, click the **Close** button.


Setting Rectangle/Highlighter Properties

Use the Rectangle/Highlighter Property editor to modify the width, color, and opacity of the selected rectangle or highlight. Rectangles and highlights can both be modified by the editor. A rectangle is not usually filled, but you can change the fill property. A highlight is usually filled and it usually has a low opacity setting to allow you to see through the annotation to the image beneath the highlighted area.

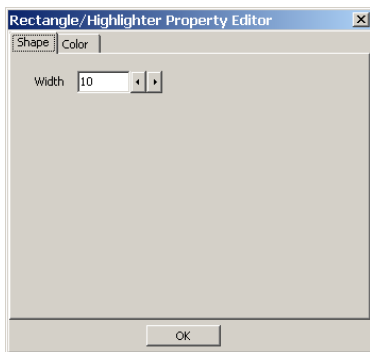
Setting Rectangle/Highlighter Shape Properties

Use the Rectangle/Highlighter Property Editor **Shape** tab to modify the width of the line used to outline the rectangle or highlight.

To set the line width for a selected rectangle or highlight:

1. Click the rectangle or highlight to select it.
2. Click the **Annotation Property Editor**  button.

The Rectangle/Highlighter Property Editor dialog box opens.



3. Use the decrease and increase arrows beside the **Width** text box to modify the line width. The higher number, the greater the width.
4. Do one of the following:
 - To save your changes and close the Rectangle/Highlighter Property Editor dialog box, click **OK**.
 - To close the Rectangle/Highlighter Property Editor dialog box without saving your changes, click the **Close** button.

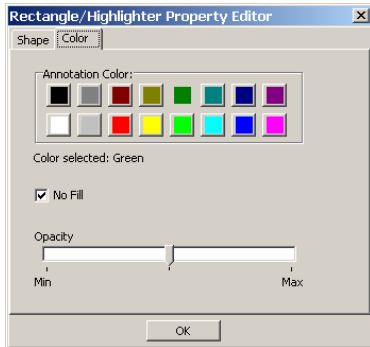
Setting Rectangle/Highlighter Color Properties

Use the Rectangle/Highlighter Property Editor **Color** to modify the color, fill, and opacity of the selected rectangle or highlight.

To set the color and opacity properties of a selected rectangle or highlight:

1. Click the **Color** tab from the Rectangle/Highlighter Property Editor dialog box.

The Rectangle/Highlighter Property Editor **Color** tab opens.



2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

The color selected is displayed in the **Color selected** field.

By default, the **No Fill** check box is selected for a rectangle and the **No Fill** check box is not selected for a highlight.

3. To fill in a rectangle, clear the **No Fill** check box.
4. To clear the fill in a highlight, click the **No Fill** check box.
5. To adjust the opacity, move the indicator toward the **Min** or **Max**.
 - Moving the indicator toward the **Min** makes the annotation more transparent.



- Moving the indicator toward the **Max** makes the annotation more opaque.



6. Do one of the following:
 - To save your changes and close the Rectangle/Highlighter Property Editor dialog box, click **OK**.
 - To close the Rectangle/Highlighter Property Editor dialog box without saving your changes, click the **Close** button.

Setting Text Properties

Use the Text Property Editor dialog box to modify font style and size, text, and color of the selected text. Only one font is allowed to keep the style of text annotations consistent across the VistA database.

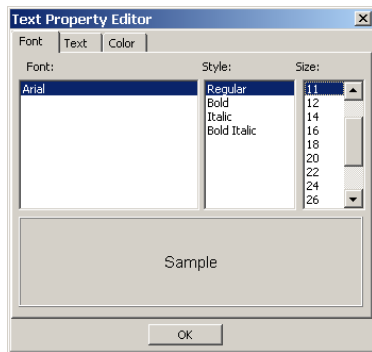
Setting Text Font Styles and Sizes

Use the Text Property Editor **Font** tab to adjust font settings, such as style and size. Only one font is allowed to keep the style of text annotations consistent across the VistA database. The default text size is **36**.

To set the font style and size of selected text:

1. Click the text to select it.
2. Click the **Annotation Property Editor**  button.

The Text Property Editor dialog box opens.



3. To select a style, click a style type from the **Style** list. Choices are: **Regular**, **Bold**, **Italic**, and **Bold Italic**.
4. To select a font size, click a font size from the **Size** list. Choices are: **11**, **12**, **14**, **16**, **18**, **20**, **22**, **24**, **26**, **28**, **36**, **48**, and **72**.
5. Do one of the following:
 - To save your changes and close the Text Property Editor dialog box, click **OK**.
 - To close the Text Property Editor dialog box without saving your changes, click the **Close** button.

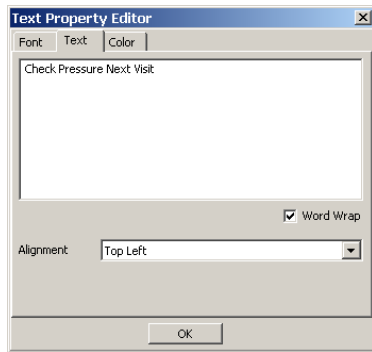
Editing Text

Use the Text Property Editor **Text** tab to edit text after you have left the text box. The Text Property Editor **Text** tab also provides tools for entering text in the text annotation area. For example, select the **Word Wrap** check box to wrap the text in the text annotation area for ease of use while entering the text. The word wrap and alignment settings do not change the appearance of the text on the image.

To modify the selected text:

1. Click the **Text** tab from the Text Property Editor dialog box.

The Text Property Editor **Text** tab opens.



Note: The following characters are illegal and not allowed: **&** **<** **>**

2. To edit the text, click in the text annotation area and begin typing. If you type any illegal characters, you will not be able to leave the text annotation area until you delete them.

Note: The Word Wrap and Alignment options are only available for text in the Text Property Editor dialog box.

3. To force the text to wrap in the text annotation area of the **Text** tab, click the **Word Wrap** check box.
4. To change the alignment of the text in the text annotation area, click the **Alignment** drop-down menu.
5. Do one of the following:
 - To save your changes and close the Text Property Editor dialog box, click **OK**.
 - To close the Text Property Editor dialog box without saving your changes, click the **Close** button.

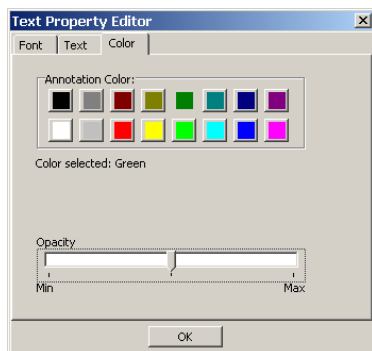
Setting Text Color Properties

Use the **Color** tab to modify the color and opacity of the text.

To set the color and opacity for the selected text:

1. Click the **Color** tab from the Text Property Editor dialog box.

The Text Property Editor **Color** tab opens.



2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

The color selected is displayed in the **Color selected** field.

3. To adjust the intensity, move the indicator to the **Min** or **Max**.

- Moving the indicator to the **Min** makes the annotation more transparent.

Note Text

- Moving the indicator toward the **Max** makes the annotation more opaque.

Note Text

4. Do one of the following:

- To save your changes and close the Text Property Editor dialog box, click **OK**.
- To close the Text Property Editor dialog box without saving your changes, click the **Close** button.


Setting Ellipse Properties

Use the Ellipse Property editor to modify the width, color, and opacity of the selected ellipse.

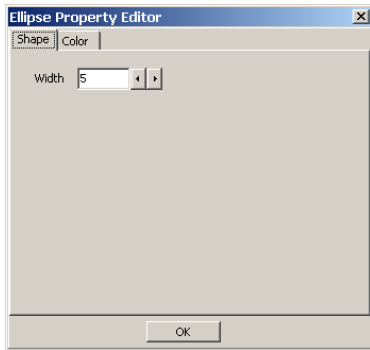
Setting Ellipse Shape Properties

Use the Ellipse Property Editor **Shape** tab to specify the width of the line for the ellipse.

To set the line properties of the selected ellipse:

1. Click the ellipse to select it.
2. Click the **Annotation Property Editor**  button.

The Ellipse Property Editor dialog box opens.



3. Use the decrease and increase arrows beside the **Width** text box to modify the line width. The higher number, the greater the width.
4. Do one of the following:
 - To save your changes and close the Ellipse Property Editor dialog box, click **OK**.

- To close the Ellipse Property Editor dialog box without saving your changes, click the **Close** button.

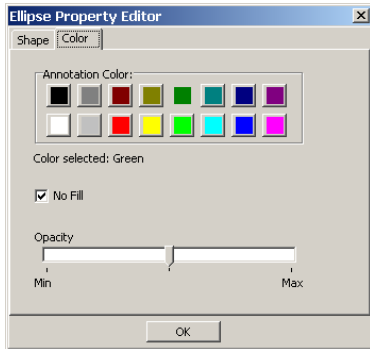
Setting Ellipse Color Properties

Use the Ellipse Property Editor **Color** tab to modify the color and opacity of the ellipse.

To set the color and opacity of the selected ellipse:

1. Click the **Color** tab from the Ellipse Property Editor dialog box.

The Ellipse Property Editor **Color** tab opens.



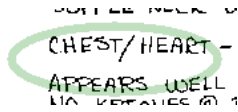
2. To select a color for the annotation, click a color on the **Annotation Color** pallet.

The color selected is displayed in the **Color selected** field.

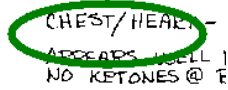
By default, the **No Fill** check box is selected for an ellipse.

3. To fill in an ellipse, clear the **No Fill** check box.
4. To clear the fill in an ellipse, click the **No Fill** check box.

5. To adjust the opacity, move the indicator to the **Min** or **Max**.
 - Moving the indicator to the **Min** makes the annotation more transparent.



- Moving the indicator toward the **Max** makes the annotation more opaque.



6. Do one of the following:
 - To save your changes and close the Ellipse Property Editor dialog box, click **OK**.
 - To close the Ellipse Property Editor dialog box without saving your changes, click the **Close** button.


Setting Ruler Properties

You can select the color and width properties for rulers using the Ruler Properties dialog box.

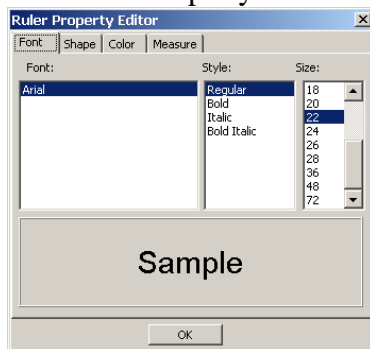
Setting Ruler Font Styles and Sizes

Use the Ruler Property Editor **Font** tab to adjust font settings for the text associated with the ruler. Font settings include style and size.

To set the font style and size of the text for a selected ruler:

1. Click the ruler to select it.
2. Click the **Annotation Property Editor**  button.

The Ruler Property Editor dialog box opens.



3. To select a style, click a style type from the **Style** list. Choices are: **Regular**, **Bold**, **Italic**, and **Bold Italic**.
4. To select a size, click a font size from the **Size** list. Choices are: **11**, **12**, **14**, **16**, **18**, **20**, **22**, **24**, **26**, **28**, **36**, **48**, and **72**.
5. To modify the starting and ending line lengths, click the **Measure** tab (see *Modifying Start Line Length and End Line Length*).

6. Do one of the following:

- To save your changes and close the Ruler Property Editor dialog box, click **OK**.
- To close the Ruler Property Editor dialog box without saving your changes, click the **Close** button.

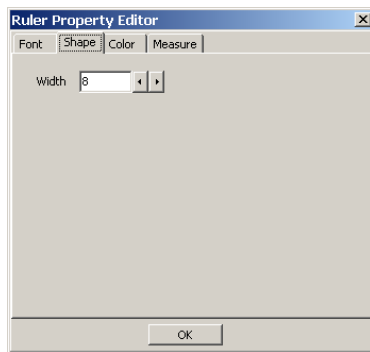
Setting the Ruler Shape Properties

Use the Ruler Editor **Shape** tab to specify the width of the line for the ruler.

To set the line properties of the selected ruler:

1. Click the **Shape** tab from the Ruler Property Editor dialog box.

The Ruler Property Editor **Shape** tab opens.



2. Use the decrease and increase arrows beside the **Width** text box to modify the line width. The higher number, the greater the width. As the line width grows, the endpoints remain in place.
3. Do one of the following:
 - To save your changes and close the Ruler Property Editor dialog box, click **OK**.
 - To close the Ruler Property Editor dialog box without saving your changes, click the **Close** button.

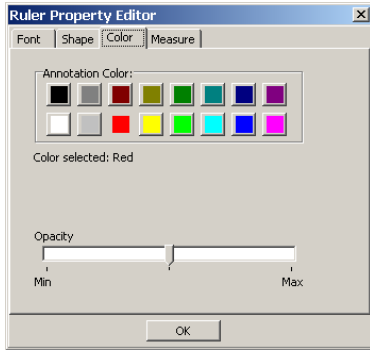
Setting Ruler Color Properties

Use the Ruler Property Editor **Color** tab to modify the color and opacity of the ruler.

To set the color and opacity properties of the selected ruler:

1. Click the **Color** tab from the Ruler Property Editor dialog box.

The Ruler Property Editor **Color** tab opens.



2. To select a color for the ruler, click a color on the **Annotation Color** pallet.

The color selected is displayed in the **Color selected** field.

3. To adjust the intensity, move the indicator to the **Min** or **Max**.

- Moving the indicator toward the **Min** makes the ruler more transparent.



- Moving the indicator toward the **Max** makes the ruler more opaque.



4. Do one of the following:

- To save your changes and close the Ruler Property Editor dialog box, click **OK**.
- To close the Ruler Property Editor dialog box without saving your changes, click the **Close** button.

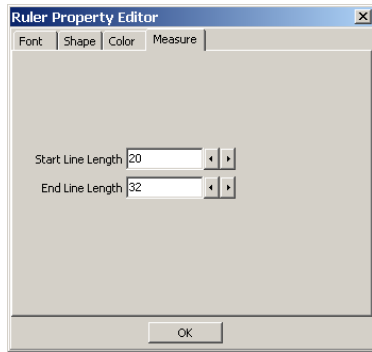
Modifying Start Line Length and End Line Length

You can modify the length of the start and end line for the ruler.

To modify the length of the start and end line of the selected ruler:

1. Click the **Measure** tab from the Ruler Property Editor dialog box.

The Ruler Property Editor dialog box opens.



2. Enter a line length or use the decrease and increase arrows beside the **Start Line Length** text box to modify the start line length. The greater the number, the longer the line starting the ruler. As shown above, the start line length is shorter than the end line length.
3. Use the decrease and increase arrows beside the **End Line Length** text box to modify the end line length. The greater the number, the longer the line ending the ruler.
4. Do one of the following:
 - To save your changes and close the Ruler Property Editor dialog box, click **OK**.
 - To close the Ruler Property Editor dialog box without saving your changes, click the **Close** button.

Setting Protractor Properties

Use the Protractor Property Editor tool to modify font, line width, and color of the selected protractor annotation.

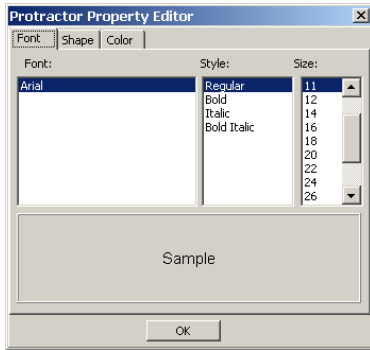
Setting Protractor Font Styles and Sizes

Use the Protractor Property Editor **Font** tab to adjust font settings for the text associated with the protractor tool. Font settings include style and size. To keep the style of text annotations consistent across the VistA database, only one font is allowed.

To set the font style and size for the selected protractor:

1. Click the protractor to select it.
2. Click the **Annotation Property Editor**  button.

The Protractor Property Editor dialog box opens.



3. To select a style, click a style type from the **Style** list. Choices are: **Regular**, **Bold**, **Italic**, and **Bold Italic**.
4. To select a size, click a font size from the **Size** list. Choices are: **11**, **12**, **14**, **16**, **18**, **20**, **22**, **24**, **26**, **28**, **36**, **48**, and **72**.
5. Do one of the following:
 - Click **OK** to save your changes and close the Protractor Property Editor dialog box.
 - To close the Protractor Property Editor dialog box without saving your changes, click the **Close** button.

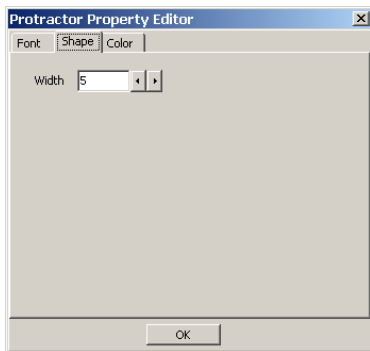
Setting the Protractor Shape Properties

Use the Protractor Editor **Shape** tab to specify the width of the line for the protractor.

To set the line property of the selected protractor:

1. Click the **Shape** tab from the Protractor Property Editor dialog box.

The Protractor Property Editor **Shape** tab opens.



2. Use the decrease and increase arrows beside the **Line Size** text box to modify the line width. The higher number, the greater the width.

3. Do one of the following:

- To save your changes and close the Protractor Property Editor dialog box click **OK**.
- To close the Protractor Property Editor dialog box without saving your changes, click the **Close** button.

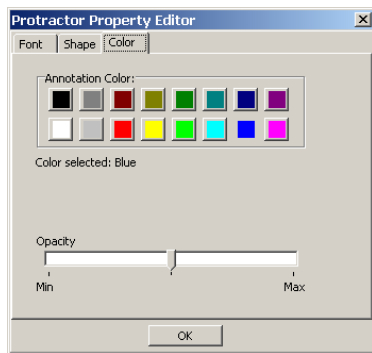
Setting Protractor Color Properties

Use the Protractor Property Editor **Color** tab to change the color and opacity of the selected Protractor annotation.

To set the color and opacity properties of the selected protractor:

1. Click the **Color** tab from the Protractor Property Editor dialog box.

The Protractor Property Editor **Color** tab opens.



2. To select a color for the protractor line and text, click a color on the **Annotation Color** pallet.

The color selected is displayed in the **Color selected** field.

3. To adjust the opacity, move the indicator to the **Min** or **Max**.

- Moving the indicator to the **Min** makes the annotation more transparent.





- Moving the indicator toward the **Max** makes the annotation more opaque.



4. Do one of the following:

- To save your changes and close the Protractor Property Editor dialog box, click **OK**.
- To close the Protractor Property Editor dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Attributes

You can use the **Global Annotation Attributes**  button or **Annotation Settings** from the **Options** menu to change annotation attribute settings for future annotations. These changes do not change any pre-existing annotations. After you set global annotation attributes, you can still manually change the attributes individually by using the **Property Editor**  button. See *Changing Selected Annotation Attributes* for more information.

Because the global annotation attribute user preferences are stored in your user settings, the values for Clinical Capture and Clinical Display are stored separately and can be different. For example, you may decide to set the color of the lines drawn by tools in Clinical Capture to blue and in Clinical Display to red. Thus, you can distinguish your annotations made during the capture process from your annotations made during display.

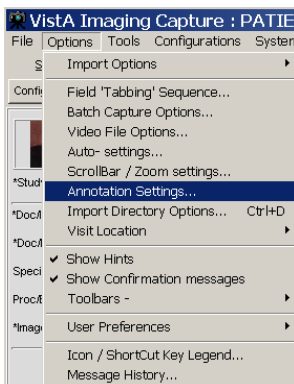
Default Values for Annotations

The following table displays default values for annotations at initial installation. These values are initially set the same in Capture and Display.

Attributes	Default Value
Annotation Font Name	Arial
Annotation Font Style	Regular
Annotation Font Size	36
Annotation Line Width	5
Annotation Color	Green
Annotation Opacity	159
Annotation Arrow Style	Pointer
Annotation Arrow Length	35
Annotation Arrow Angle	35

Setting Global Annotation Attributes from the Options Menu

To use the **Options** menu to set global annotation attributes, select **Annotation Settings** from the menu.




The Global Annotation Attributes dialog box opens.

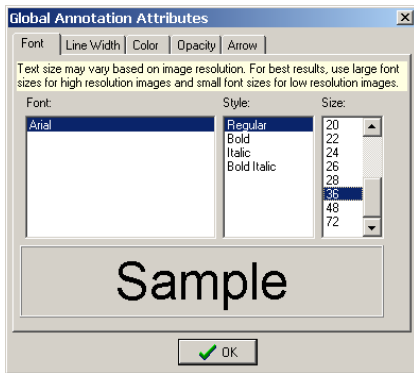
Setting Global Annotation Font Attributes

The Global Annotation Attributes **Font** tab is used to adjust font settings, such as style and size, for all new annotations. For example, you can choose to make all fonts bold and sized 14 points. Only one font is allowed to keep the style of text annotations consistent across the VistA database. The default font is **Arial**. The default style is **regular**, and the default size is **36** points. If most of your images are low resolution, you may find it helpful to change the default font size to a smaller font. However, if your images are mostly high resolution, a larger font is recommended. For information on changing font sizes for only the current annotation, see *Setting Text Font Styles and Sizes*.

To set global annotation font attributes, do the following:

1. Click the **Global Annotation Attributes**  button or the **Annotation** tab from the User Preference dialog box.

The Global Annotation Attributes dialog box opens.



2. To select a font style, click a style type from the **Style** list. Choices are: **Regular**, **Bold**, **Italic**, and **Bold Italic**.
3. To select a font size, click a font size in the **Size** list. Choices are: **11**, **12**, **14**, **16**, **18**, **20**, **22**, **24**, **26**, **28**, **36**, **48**, and **72**.
4. Do one of the following:
 - To save your changes and close the Global Annotation Attributes dialog box, click **OK**.
 - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

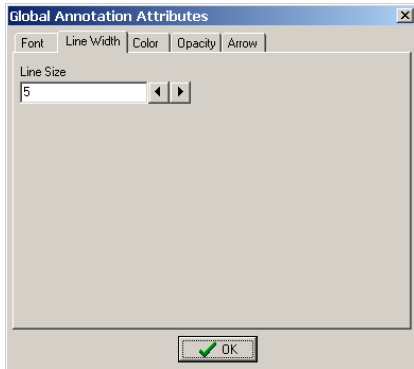
Setting Global Annotation Line Width Attributes

Use the Global Annotation Attributes **Line Width** tab to modify the width of lines for lines, rectangles, highlights, ellipses, and arrows. The default line width is **5**.

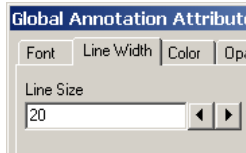
To set global annotation line width attributes, do the following:

1. Click the **Line Width** tab in the Global Annotation Attributes dialog box.

The Global Annotation Attributes **Line Width** tab opens.



2. Use the decrease and increase arrows beside the **Line Size** text box to modify the line width. The higher number, the greater the width.



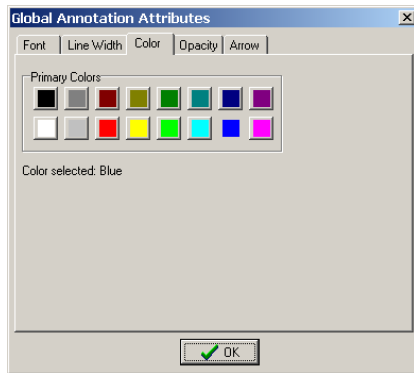
3. Do one of the following:
 - To save your changes and close the Global Annotation Attributes dialog box, click **OK**.
 - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Color Attributes

Use the Global Annotation Attributes **Color** tab to modify the default color of all annotations. The default color is **Green**.

To set global annotation color attributes, do the following:

1. Click the **Color** tab from the Global Annotation Attributes dialog box.



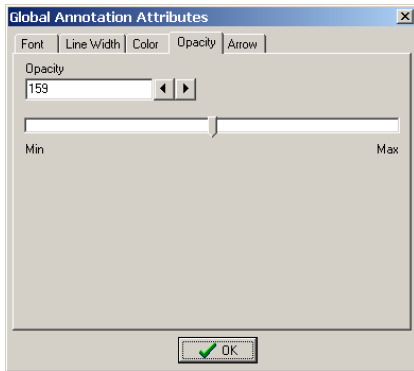
2. To select a color for your annotations, click a color on the **Primary Colors** pallet. The color selected is displayed in the **Color selected** field.
3. Do one of the following:
 - To save your changes and close the Global Annotation Attributes dialog box click **OK**.
 - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Opacity Attributes

Use the Global Annotation Attributes **Opacity** tab to modify the opacity of the color of annotations. The higher the opacity level, the more opaque the color is for the annotation. The initial setting for opacity is **159**.

To set global annotation opacity attributes, do the following:

1. Click the **Opacity** tab in the Global Annotation Attributes dialog box.



2. The opacity of annotations can be modified by either using the increase and decrease arrows beside the **Opacity** field or by dragging the indicator toward the **Min** or **Max**.
3. To use the arrows beside the **Opacity** field, click the increase or decrease arrows. The higher number, the more opaque the color of the annotation.
4. To use the indicator to adjust the opacity, move the indicator to the **Min** or **Max**.
 - Moving the indicator toward the **Min** makes the annotation more transparent.

Note Text

- Moving the indicator toward the **Max** makes the annotation more opaque.

Note Text

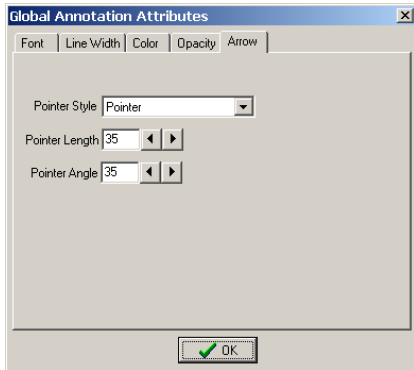
5. Do one of the following:
 - To save your changes and close the Global Annotation Attributes dialog box, click **OK**.
 - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Setting Global Annotation Arrow Attributes

Use the Global Annotation Attributes **Arrow** tab to modify arrow annotations.




To set global annotation arrow attributes, do the following:

1. Click the **Arrow** tab in the Global Annotation Attributes dialog box.



You can modify the pointer style, length, and angle. The default arrow attributes are pointer for **Pointer Style**, 35 for **Pointer Length**, and 35 for **Pointer Angle**.

2. To modify the arrow head type, click **Pointer Style**.

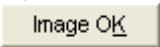
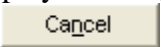
- For a solid arrow, select  **Solid** in the drop-down box.
- For an open arrow, select  **Open** in the drop-down box.
- For a solid pointer, select  **Solid pointer** in the drop-down box.

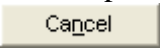
3. To make the arrow head longer or shorter, use the decrease and increase arrows beside the **Pointer Length** text box. The higher the number, the longer the arrow head.
4. To make the angle of the arrow head lesser or greater, use the decrease and increase arrows beside the **Pointer Angle** text box. The higher the number, greater the angle.
5. Do one of the following:
 - To save your changes and close the Global Annotation Attributes dialog box, click **OK**.
 - To close the Global Annotation Attributes dialog box without saving your changes, click the **Close** button.

Completing Capture

The VistA Imaging Capture Window can use a number of different capture mechanisms to acquire images:

- *Import File from Workstation*
- *Scan Document or Color Picture*
- *Meteor/Orion Imaging Boards*
- *Digital and Still Video Camera Input*

Once an Image has been captured, VistA Imaging will display the image in the Display area and enable the 'Image OK'  and 'Cancel'  buttons. The image manipulation buttons are also available if required.

If the captured image is not the correct image or not of good quality, click the 'Cancel'  button to discard the image.

If the Image is correct and the quality is good, click the 'Image OK'  button.

Scan Document or Color Picture

Requirement: All document scanning must be at a minimum of 300 x 300 dpi.

VistA Imaging can acquire images from TWAIN devices including:

- color scanners,
 - document scanners,
 - desktop scanners, and
 - still/video cameras.
- If 'TWAIN Capture - Twain Window' is selected as the input source, another window will open when 'Capture' is clicked. This is the TWAIN Window for the TWAIN device. Each TWAIN Device has its own TWAIN Window and TWAIN Image Types.
 - In the TWAIN Window, TWAIN image type and other image parameters need to be selected. Click on the prescan and/or scan buttons to perform the scan. The image will be passed to the Image Box of the VistA Imaging Capture Window for approval.

Please see the device manual for image adjustments and other details.

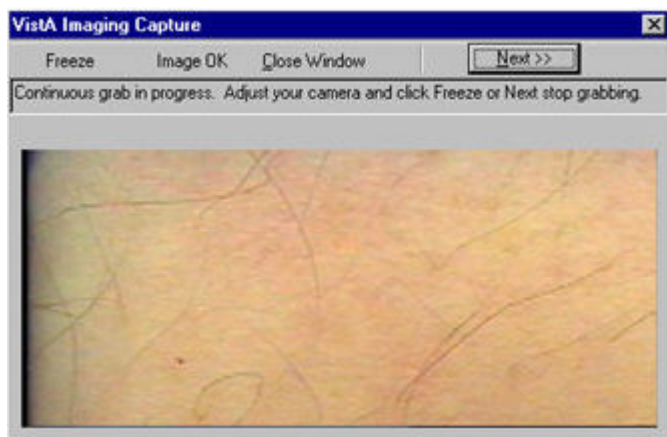
Meteor/Orion Imaging Boards

Meteor/Orion boards installed in a workstation display live images.

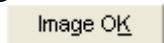
When the Capture button is clicked on the VistA Imaging Capture main window, the VistA Imaging Capture window (**shown below**) will appear.

(1) A live image is displayed.

(2) To obtain a still image -- click the **Freeze** button

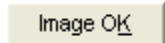


(3) Review the quality of the image,

- if **not** satisfactory, click the **Freeze** button again. The window will resume the display of live images.
- If the image is satisfactory, click the **Image OK**  button.

(4) The VistA Imaging Capture main window will then move to the foreground, the "frozen" image will appear in the Display area of the main window.

(5) Prior to capture, Review all the patient information and the image,

- If not correct, click Cancel.
- If the image and data are correct, click the Image OK  button to save them in the patient's record.

(6) If a **Study (Group)**, of several images, is being performed, click the **Capture** button to **return to the live image display window**.

Digital and Still Video Camera Input

Digital Camera

These cameras are used by staff in the:

- Wound Care Clinic
- Home Based Primary Care
- Dermatology Clinic
- OR
- Plastic Surgery
- Podiatry
- Outpatient Clinics
- Nursing Home / Administrative / Police office (for Patient Photo ID)

Most of the cameras can transfer their images by connecting to a PC that has a USB port.

- the camera is turned on in display mode
- the camera appears in the Windows Explorer as a 'removable' drive
- images can be copied to an 'import' folder on the PC hard drive
- to store the images in the patient record, select the import folder when running VistA Imaging Capture

Still Video Camera

If the input device is a still video camera (which records full motion video) with a TWAIN interface, it must be connected to the workstation. Consult the instructions for the camera to see if turning off the workstation is recommended before proceeding.

There are several kinds of interfaces:

- Images are recorded by the camera prior to being connected to the workstation.
- The camera operates in live mode, inputting images as they are captured.
- The camera provides a download mode (non-TWAIN) that places all images in a directory on the workstation.

Using the TWAIN Interface

1) Images are recorded by the camera prior to being connected to the workstation. When the 'Capture' button is clicked the camera will be started and a series of images will probably appear in the TWAIN window (depending on the software provided with the camera). Follow the instructions provided with the camera and select the image to be captured. The captured image will appear in the image box on the Capture window.

2) The camera operates in live mode, inputting images as they are captured. Follow the instructions provided with the camera. As images are captured and indicated acceptable, they will appear in the image box on the Capture window.

Using the Download Function

3) The camera provides a download mode (non-TWAIN) that places all images in a directory on the workstation. This method may be preferred because of its speed. In this case, follow the instructions with the camera. Be sure that the downloaded images are stored in a standard format such as JPEG, BMP, or TIF. Then use the VistA Imaging Import mode to import the images into VistA.

Validate Image Data

Imaging capture validates the Image data in the following ways:

Patient

User must have selected a patient

Procedure

User must have selected a procedure or a category

Doc/Image Date - Image Date

Usually entered by system. Taken from the associated procedure date. But if one of the three Patient Only associations (Clinical, Photo ID, Administrative) is selected, then the user has to enter the date. It is a standard FileMan Date/Time look up. i.e. 'T' 'T-1' etc are accepted input values.

Image File

User must have captured or imported an Image. It will be visible in the Image box on the Capture window.

Image Description

Must be entered by user. (User can accept the system default description)

Image Long Description

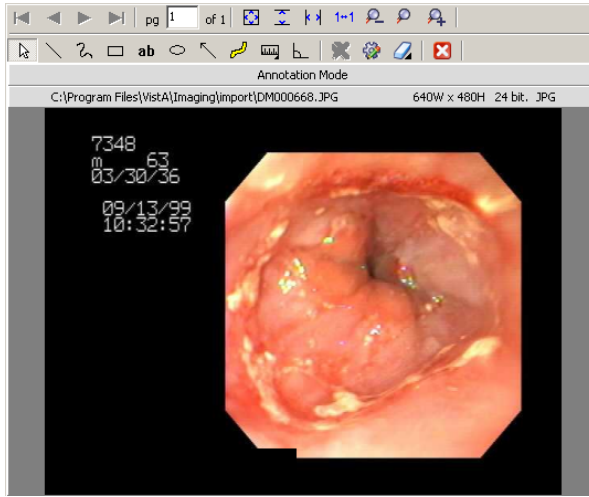
(Optional)

Display area

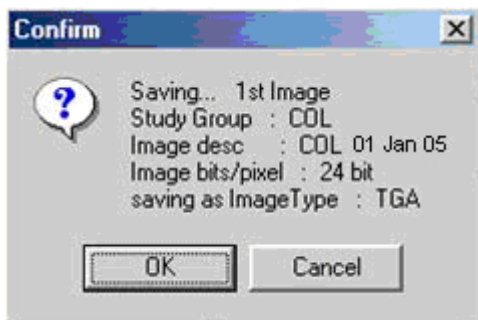
The Display Area has image manipulation buttons to modify the image before saving it. See *Image Manipulation Buttons* section for more information.

The Display area and its controls enable:

- viewing of images prior to capture, **and**
- review of images that have already been captured.



Prior to capture: Images are displayed for **medical and/or administrative review**. When the Capture button is clicked, a Confirmation window appears.



At the bottom of the VistA Imaging Capture window is a status bar.

(1) An internal check is done by the software to determine that the image and data are ready for the capture process

- the current status message is: "Image data is Valid"
- this is not a medical or administrative review

(2) The bottom right corner of the window has a progress meter -- currently showing 5%.

- this indicates that the initial step of the Capture process has begun

(3) The Confirm window displays information about the image currently shown in the Display area.

- Review the quality of the image and the data in the Confirm window.
- If the displayed image and data are accurate, then click the OK button to save the image to VistA
 - After the image capture is completed, check the status bar for any further messages.
 - If a Study (Group) is being captured, then continue the capture process.
- If the image and/or data are not satisfactory, then click the Cancel button to discard the image.
 - Correct the image and/or data information before resuming the Capture process.

The Image manipulation buttons can be used to modify the image before saving it.

The Display Area can also be used to **display** a patient's **previously captured images**. Select the menu option '*File | Latest patient Images*' and the 'Patient's latest Images window' will be opened. Selecting an item from the list will display the image in the image box.

While displaying patient images in this manner, the Capture, Image OK, and Study Complete buttons are disabled. Only the Cancel button is enabled. The 'Cancel' button must be clicked to enable Image Capture again.

The VistA Imaging Capture main window can also act as an **Image Browser** by selecting 'Import' as the 'Input source' and then scrolling through the Import directory file listing: As each image name is selected, it will be shown in the **Display area**.

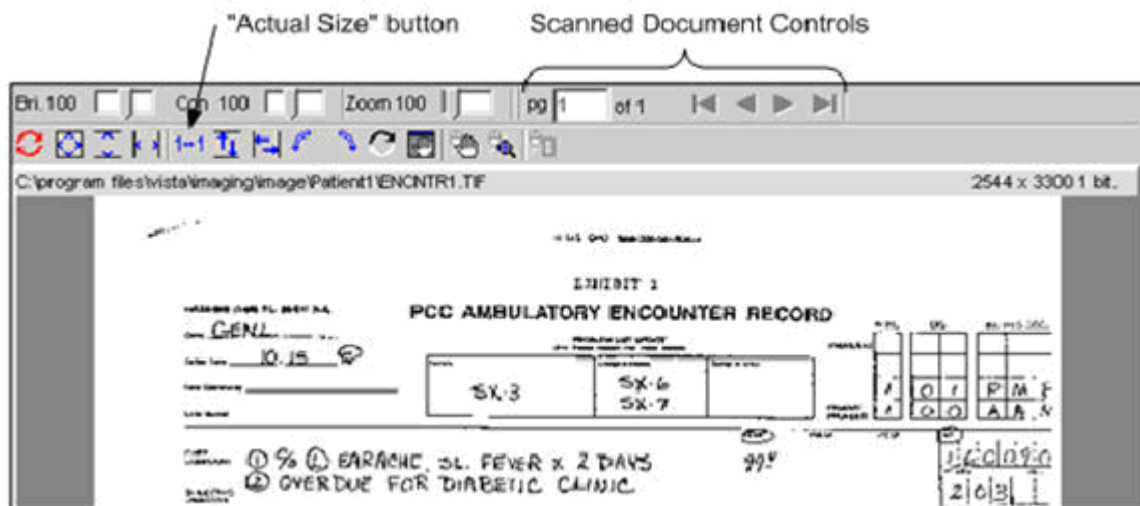


Image Manipulation Buttons



The right side of the window under the Tool Bar has the Image manipulation buttons and the image box.

When an image is captured, it is shown in the Display area.




Caution: Any changes made to the Image, except sizing operations, **will be saved** when 'Image OK' button is clicked.


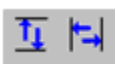






- Sizing operations include: Zooming, fit Width, fit Height and fit in Window.

Button descriptions:



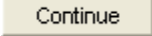
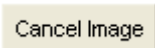
Document control (paging is enabled for multi-page images).

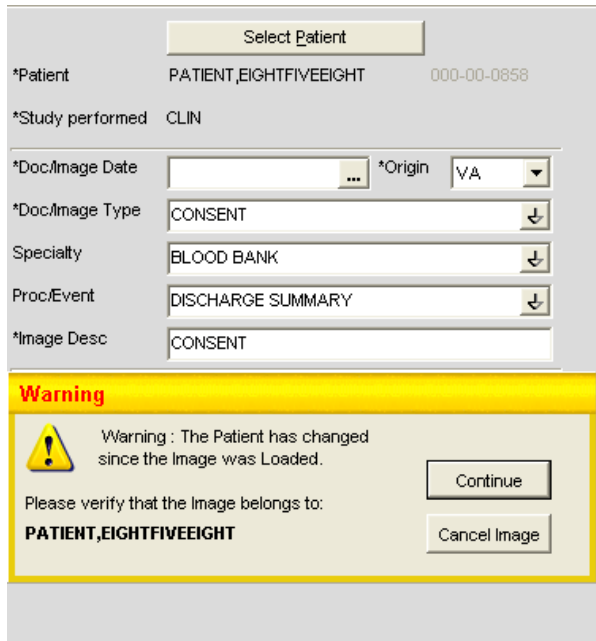
	Reset the image To its original orientation, contrast and brightness. (This does not reload the image from disk, to do that during Import, simply click again on the image in the Import directory listing.)
	Fit the image - Into the Display area.
	Fit the image height Fit the image width

	Zoom image to actual size (1 pixel to 1 pixel)
	Flip image vertically Flip image horizontally
	Rotate image 90 degrees to the left , Rotate the image 90 degrees to the right
	Invert all the colors in an image. Each color is replaced by its color complement. For example, white becomes black, and red becomes blue.
	Open a Pan Window . Use the mouse in the pan window to move the visible area of a zoomed Image
	Position the mouse over the Image, and drag (pan) the visible area of a zoomed image
	Click to turn ' magnifying glass ' on or off . When this tool is turned on, dragging the left mouse button over an image displays a portion of the image at a greater magnification.
	Zoom in on selected area .

Warning Panel for Patient Change

Once a patient is selected using any of the above described methods and an image is displayed in the capture window, any change to the Patient selected will cause Clinical Capture to display a Warning Panel as shown below. The Warning Panel alerts that the Patient has changed since an image was loaded. At this point, there are two available options:

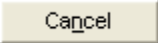
- “Continue” with the patient change using the Continue  button to keep the image displayed in the capture window so that it can be used for the newly selected patient.
- “Cancel Image” using Cancel Image  button to clear the image displayed in the capture window

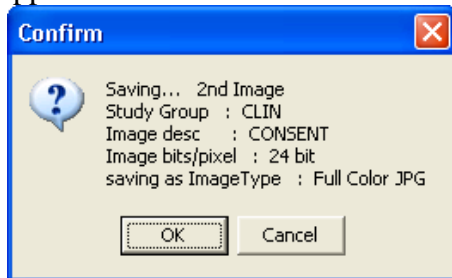


Approving the Image

When the image displayed in the image box is acceptable, click the 'Image OK' button



A confirmation window will open and display the Image information. Click 'OK' to approve or click 'Cancel'  to discard the Image and Image data.



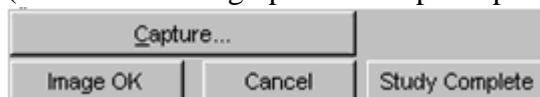
If there are more images for this procedure, use the Capture button again to capture them.

Note:


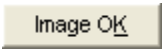

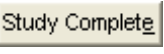
- When one of the data input fields has the input focus the 'Image OK' button is set as the 'window default button'. When <Enter> is pressed the window default button will be clicked.
- <TAB> doesn't have to be pressed repeatedly to get to the 'Image OK' button, simply press <Enter> while focus is on one of the input fields.
- Of course <TAB> can be pressed repeatedly to get to the 'Image OK' button, or click the 'Image OK' button with the mouse.

Image Function Buttons

These buttons are used during the capturing of a patient image.
(Click an area of graphic for help on specific buttons.)





The 'Image function buttons' consist of:

- Capture  Activates the Input device to Capture (Acquire) the image.
- Image OK  Indicate approval of the captured image.
- Cancel  Discard the captured image.
- Study Complete  Indicates that all images have been captured for the Study.



The position of the buttons and their tabbing sequence can be changed by opening the 'Tabbing Sequence Window'

Batch Capture Transfer Buttons

Select the images in the list box that you want to place in the batch capture list (below the list box) and then click one of the following icons:

-  To move selected images to the batch capture list
-  To move all images to the batch capture list


Note: You can move all or selected images back to the list box by clicking either icon:

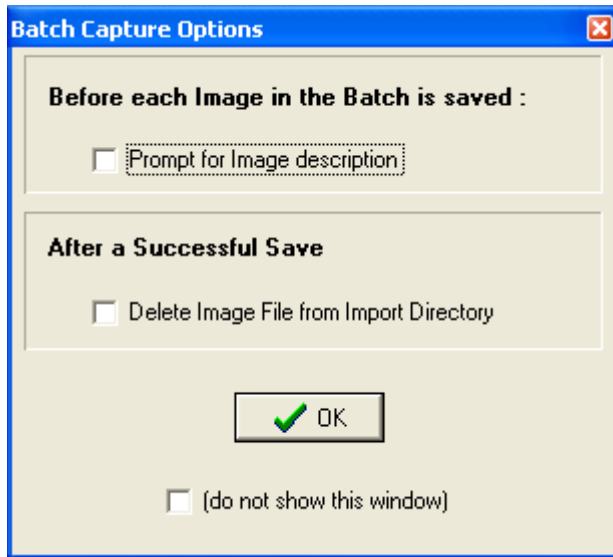
-  To remove selected images from the batch capture list
-  To remove all the images from the batch capture list

Batch Capture Options window

If Import has been selected as the Source the Batch Capture option will be available.

Batch capturing provides the capability of selecting multiple images from an import directory and have them all saved to an Image Group when 'Image OK' is clicked.

Clicking the check box  or selecting the 'Options|Batch Capture Options' menu option will open the 'Batch Capture Options' window.



'**Prompt for Image description**' provides the opportunity to enter a different description for each image. If this is not checked, all images will have the same short description.

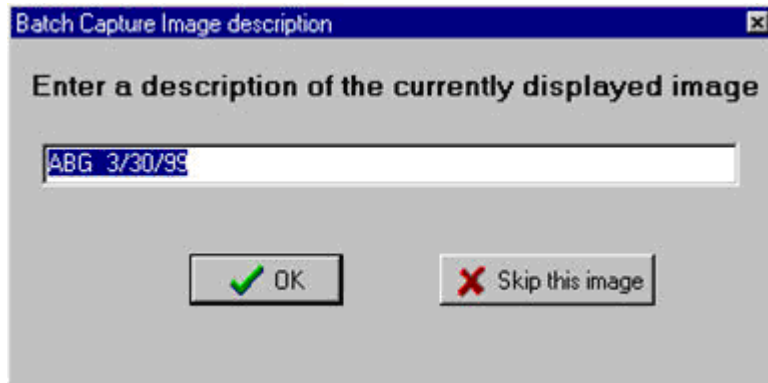
Note: When 'prompt for image description' is checked the 'Batch Capture image description' window will be displayed before each image is saved to the VistA Image File.

'**Delete Image File from Import Directory**' will delete the Image File from the workstation directory.

Caution: When the Delete Image File from Import Directory checkbox is checked, image files **WILL BE AUTOMATICALLY DELETED** from the import directory after they are captured. If the capture process was not successful, the image will no longer be available in the import directory. Therefore, it is recommended that after several single and/or groups of images are captured, you verify the capture by viewing the images using Imaging Display. Verify the first few images for each image capture device before this checkbox is checked. If the checkbox is unchecked, you can manually delete the images that are no longer needed..

If '**(do not show this window)**' is checked then the 'Batch Capture Options' window will not be displayed when the 'Batch' check box is checked from the main capture window.

Note: The 'Batch Capture Options' window can be displayed by selecting the '*Options|Batch Capture Options*' menu item.

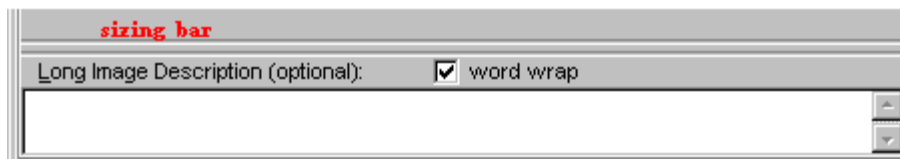


Change the description and **press <Enter>** or **click 'OK'** to save the current image and continue on to the next image.

If **'Skip this image'** is clicked, the current image will be discarded and processing will continue with the next image in the batch list.

Long Image Description

Entry of a long image description is optional. Type any description in the scroll box provided. Long image descriptions are displayed as the first paragraph of Image Reports.



Note: The mouse can be used to 'drag' the 'Long Description' field and make it smaller/larger for easier input of data. Position the mouse over the sizing bar above the 'Long Description' text and when the mouse changes to the horizontal crossbeams click down with the left mouse button and move the cursor to a new position for the top of the long description field then release the mouse button.

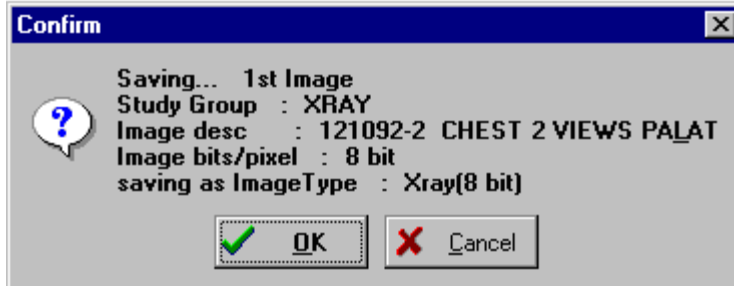
- Word wrap can be turned on/off.
- Paragraph indents and formatting will be saved.
- right-click to display the shortcut edit menu. Available options are: Undo, Cut, Copy, Paste, Delete, Select All.

The Long Description field also has a minimum and maximum height and the system won't let the user size the field beyond them.

Confirmation Window

The Confirmation window displays the Image data that is about to be saved to the patient record.

When is clicked, a validity check is performed on the input data. If the input data is valid, then the Confirmation Window will display.



Click 'OK' to save the Image to the patient record

Click 'Cancel' to stop the process and return to the capture window.

Note: The Confirmation Window is only displayed if the menu option '*Options| Show Confirmation messages*' is checked.

Indicating Completion of a Study

When all images have been captured for a procedure, click the Study Complete button of the Capture Window. The progress indicator at the bottom of the window will display. A group of images will be created and associated with the patient's report.

Save Image Data to VistA

A new entry is made in the Image File.

- The entry consists of the image data along with a pointer to the procedure in the associated clinical package.
- A pointer to the Image File entry is entered in the procedure entry of the associated package.

If either of these two actions fails, or an error occurs, the image capture fails.

Fails

If the capturing of an Image Fails. The Imaging system will delete any entries made in the Image File and associated Package Files.

- The image is not written to long term storage.
- The user will have to fix whatever problem caused the failure.
- The system manager should be called if required.

Importing Documents / Images

Import File from Workstation

In a number of cases, an image has been captured to a file on the local workstation. This is typical with commercially-available image capture systems. As long as these files are in a standard format, they can be imported into the VistA Imaging system. Even manufacturers who use a proprietary file format may offer an export function which will save another copy of the file in a standard format.

The standard VistA Capture Window can be used to import images from the local workstation drive.

To import images:

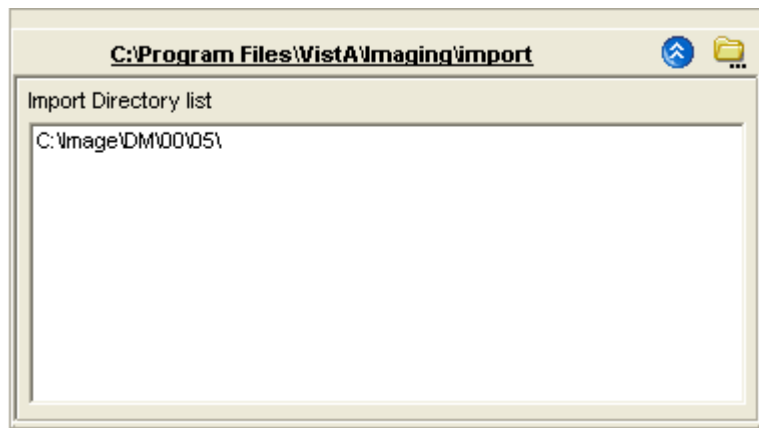
- First select the directory on the local system where the images to be imported are located (see the *Import Directory List* section below).
- Next select the image filename from the file list box on the capture window (see *Select Image File to be imported*).
- Then click the 'Capture' button.

Note: When importing files, the 'Batch Capture' option is available.

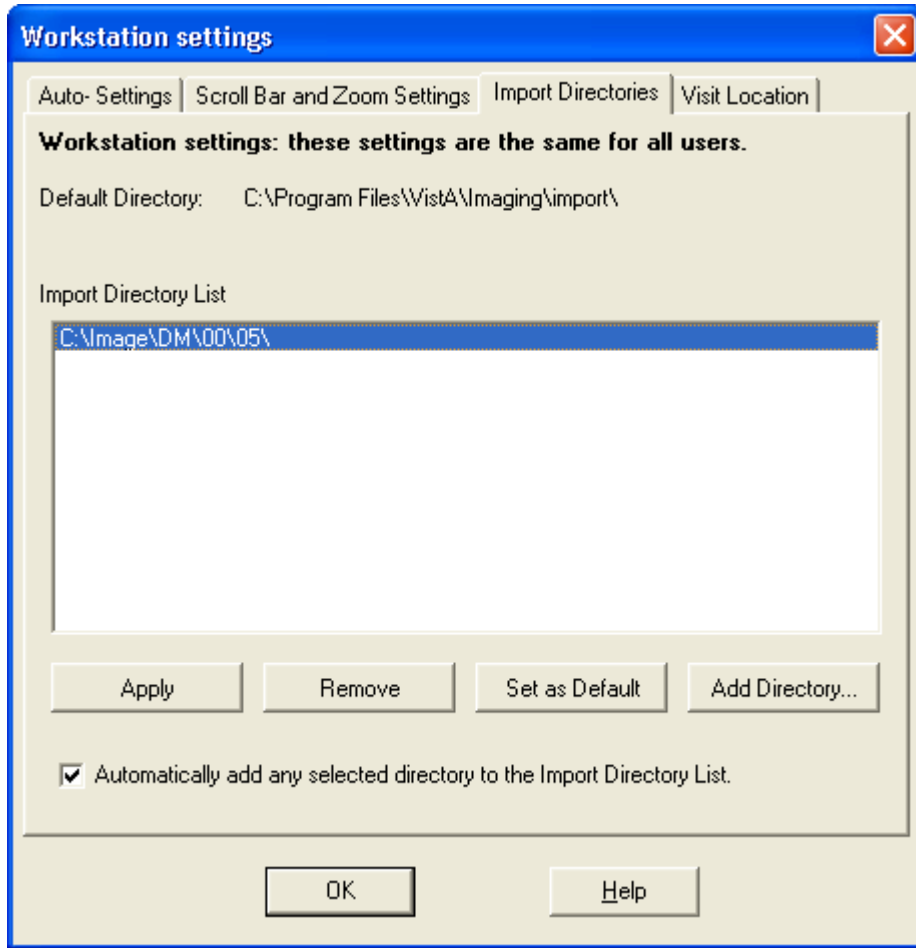
- In 'Batch Capture' mode, multiple image files can be captured and saved at one time.

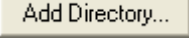
Import Directory List

VistA Imaging Capture is in 'Import Mode' when 'Import' has been selected as the input Source. In Import Mode, the directory of images to be imported must be selected.



Open the Workstation Settings window – **Import Directories** tab, by selecting the menu option **Options | Import Directory Options**.

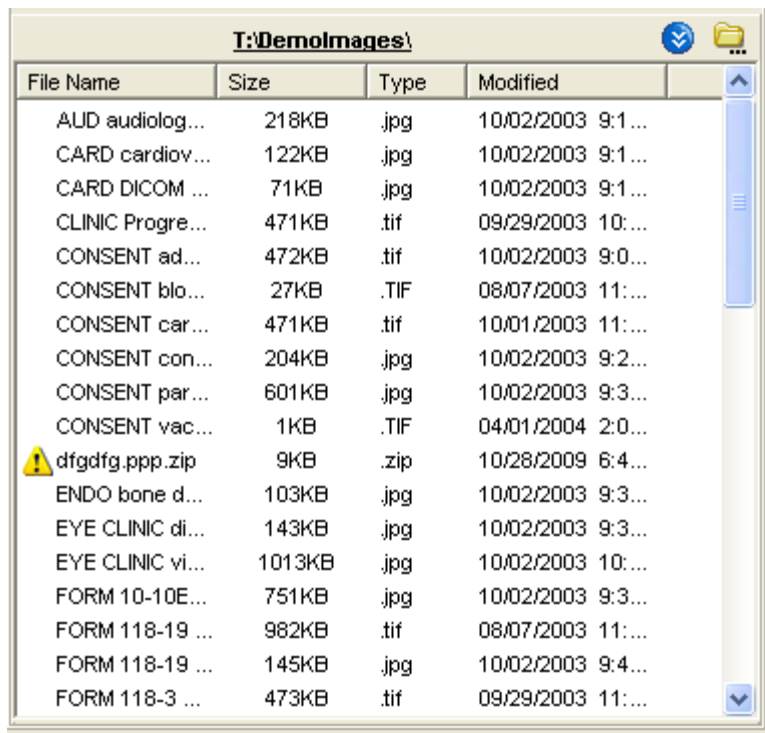


Click Add Directory Button  to add a new directory to the **Import Directory** List.

When the **OK** button is clicked, the image files will be redisplayed in the Import directory file list box on the Main Capture window.

Notes:

The images displayed in the file list box in this window are for display purposes only. Images are not selected from this window – just the directory from which to import images is selected. The images available in the selected directory are displayed in the bottom left frame of the capture window. A screenshot is included below.



If 'Save as default' is checked, the Drive Directory and file mask will be saved by the system and used as defaults the next time this window is opened.

File mask or file filters are used to limit which files will be displayed in the file list box. The most familiar mask is '*.*'. This will display all files. Alternate masks can be typed, or selected from the list.

Timesavers

Topics covered in this section:

- *Using Keyboard Shortcuts*
- *Using “Auto-Settings” to Save Keystrokes*
- *Defining Display Area Defaults*
- *Settings*

Using Keyboard Shortcuts

You can speed up the capture process by using the keyboard for frequently repeated actions. The following table summarizes keyboard shortcuts that can be used in the Capture window.

Certain “Auto-Settings” may modify the behaviors described below. For more information about Auto-Settings, see the *Using “Auto-Settings” to Save Keystrokes* section.

To :	Do This...
Start scanning a document	Press ALT+C
Discard a scanned document (Cancel)	Press Alt + N
Add long description	Press ALT+L
Finalize a scan (Image OK)	Press ALT+K
Complete a study Press	ALT+E
Select a new patient	Press ALT+P
Move from one input field to the next	Press TAB. A selected field will contain a blinking cursor. A selected button will be displayed with a dotted border.
Move to previous input field	Press SHIFT-TAB
Open a pull-down list	Press TAB until the field is selected, and then press the Down Arrow key.
Select an item in a pull-down list	Type the first few letters of the value you want to enter in the field, or use the Up Arrow or Down Arrow keys. When the appropriate item is selected, press ENTER.
Close a pull-down list (without selecting a value)	Press ESC (the Escape key)

Using “Auto-Settings” to Save Keystrokes

Options in the **Auto-Settings** tab can be used to reduce the number of keystrokes or mouse used during document scanning.

To specify Auto-settings for a user

In the main menu, click Options | Auto Settings. The Capture Session Settings dialog will open.

In the **Auto-Settings** tab, select or clear each option as desired.

When you are finished, click OK. Your changes will take effect immediately.

To associate the settings with the current login and to ensure that they are retained for future sessions, click Options | User Preferences | Save Preferences.

Defining Display Area Defaults

When a document is scanned, it will be displayed in the right side of the Capture window using a default zoom and image position. You can define what the default zoom and position can be using the following steps. Once defined, these settings can be associated with your login and then will “follow” you from workstation to workstation.

To specify Display Area defaults

In the main menu, click Options | Scrollbar/Zoom Settings. The Capture Session Settings dialog will open.

Settings

In the Scrollbar and **Zoom Settings** tab, choose one of the following options:

Settings	Explanation
Fit to Window Setting	Displays entire captured image at largest size possible, given the current dimensions of the display area.
Repeat Settings	Displays captured image using the zoom and position of the previously captured image. (Position is used only if the current zoom Last Displayed image does not permit the entire image to be shown in the display area.)
Always Use these Settings	Allows the user to apply whatever settings are used for current image for all subsequent captured images.
Positional	The position can be Center, Upper Left, Upper Right, Lower Left, or Lower Right, and is selected by clicking the box control near the bottom of the dialog. (Position is used only if the current zoom does not permit the entire image to be shown in the display area.)

When you are finished, click OK. Changes will take effect immediately.

To associate the settings with the current login and to ensure that they are retained for future sessions, click Options | User Preferences | Save Preferences.

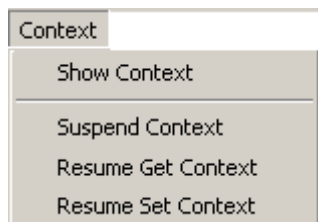
Menu Options and Functions

Topics covered in this section:

- *Context menu*
- *Options menu*
- *Tools menu*
- *Configurations menu*
- *Capture Configuration list*
- *Save Capture Configuration*
- *Clear Configuration values*
- *Properties saved with configuration definitions*
- *'Association' configuration settings*
- *Workstation configuration*
- *Imaging Workstation Configuration window*

Context Menu

The **Context** menu is used to manipulate patient context when Clinical Capture is used with CCOW.



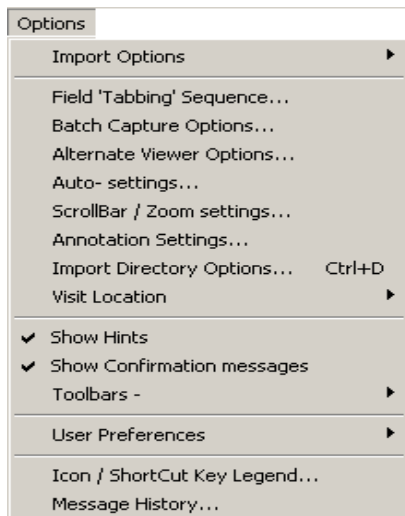
The Context menu provides access to these sub-menus:

- **Show Context**
- **Suspend Context**
- **Resume Get Context**
- **Resume Set Context**

For a description of these options and for more information about CCOW and patient context, see *Appendix B: Clinical Context Object Workgroup*.

Options Menu

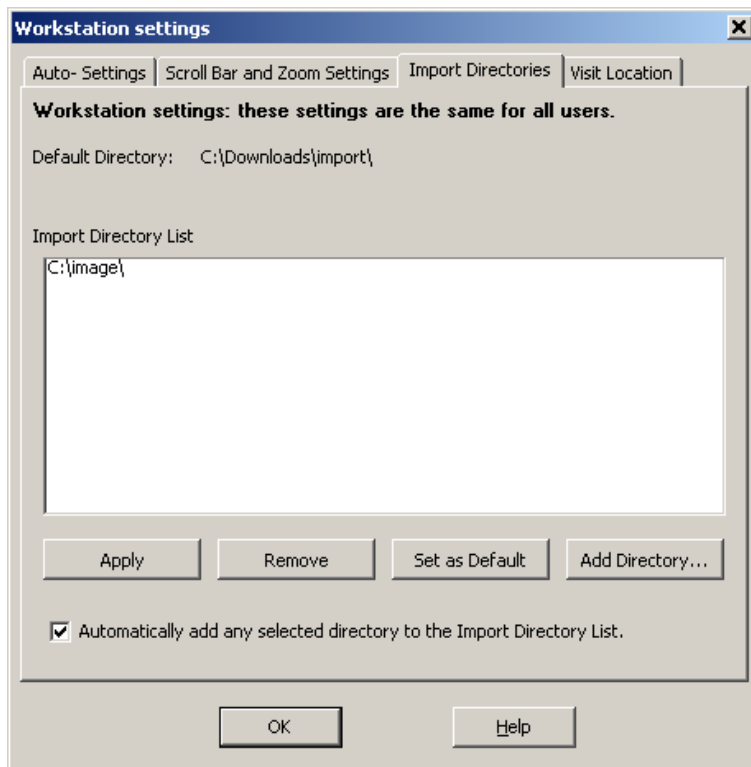
This section contains various options provided to users under the **Options** menu used to customize the capture workstation as needed.



Import Options

Use the **Import Options** menu option to customize the import settings or to select the files from one of the pre-set import directories. See the *Importing Documents / Images* section for more information. The **Import Options** menu option has two sub-menus:

- **Import Directory Options** – Choose this option to customize the import directory settings for the workstation (set the default directory, add a new directory or remove an existing directory). Selecting this option opens the **Import Directories** tab in the Workstation settings dialog box, which is illustrated in the following figure.

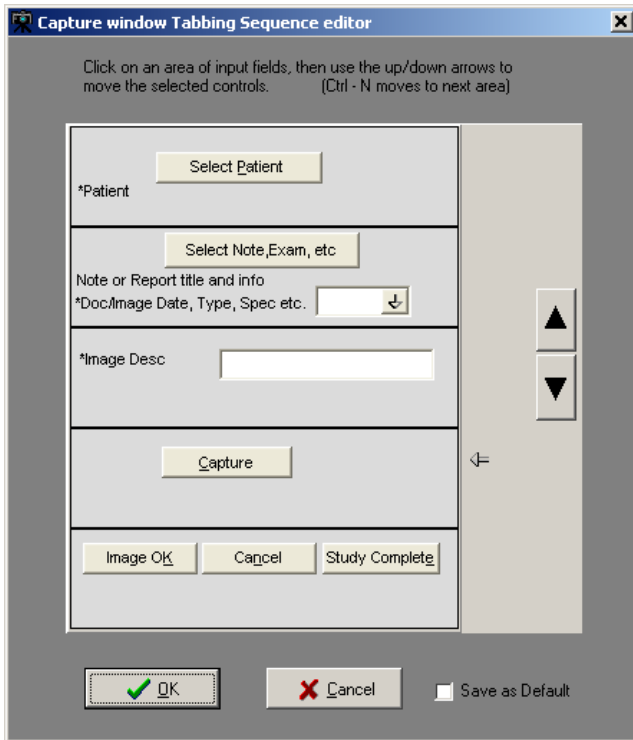


You can also access the **Import Directories** tab in the Workstation settings dialog box by selecting **Options | Import Directory Options**.

- **Select Files to Import** – Choose this option to select images from a pre-set import directory.

Field 'Tabbing' Sequence

Use the **Field 'Tabbing' Sequence** menu option to change the position and tabbing order of the Clinical Capture controls. Clicking this option opens the Tabbing Sequence editor with the current tabbing order of the fields. This is illustrated in the following image.

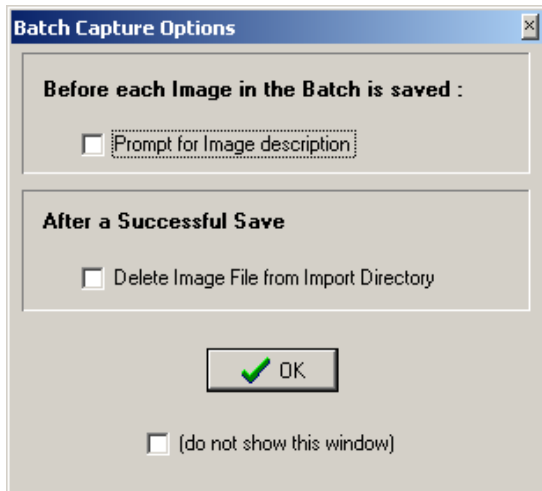


Select a field and press the Up or Down arrows to change the tabbing order as preferred.

Batch Capture Options

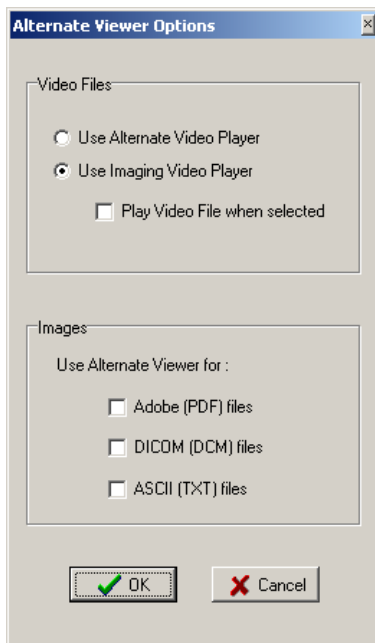
Select this option to change the options for batch capture of images. If the **Prompt for Image Description** option is selected, a description for each image in the batch has to be entered before saving.

If the **Delete Image File from Import Directory** option is selected, the image will be deleted from import directory after importing and saving in Clinical Capture.



Alternate Viewer Options

Use the **Alternate Viewer Options** menu option to customize the alternate viewer settings, which specify the viewer in which different file types are displayed. Video files, PDFs, images in DICOM format and text files can either be displayed in the Clinical Capture window or an alternate viewer. Selecting **Options | Alternate Viewer Options** opens the Alternate Viewer Options dialog box, which is illustrated in the following image.



By default, video files play in the Imaging Video player in Clinical Capture. If you want to change this option, select the Use Alternate Viewer Option. Selecting this option plays video files using alternate video player.

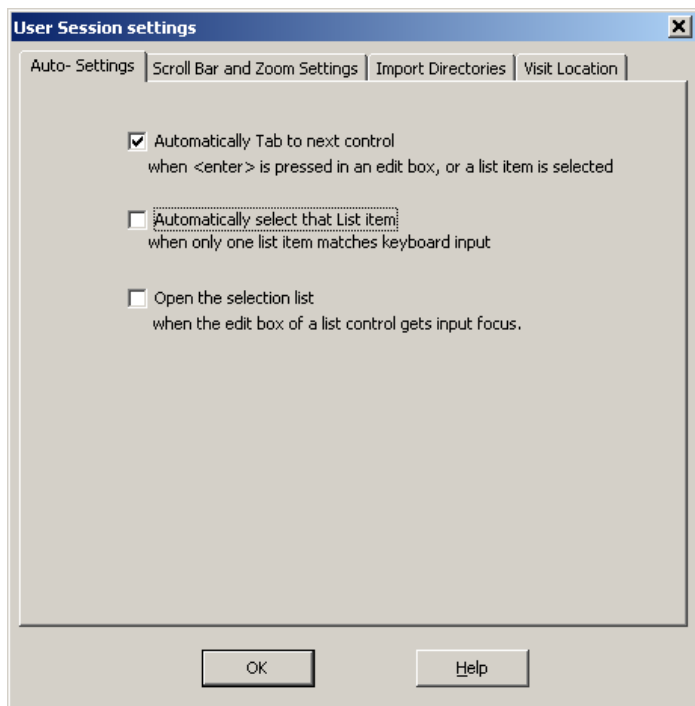
Note: AVI files can be captured in VistA Imaging only.

By default PDFs, images in DICOM format and text files are displayed in the Clinical Capture window. If you want files of any of these types to be displayed in an alternate viewer, select the relevant check box next to the file type.

Click **OK** in the Alternate Viewer Options dialog box to save your settings.

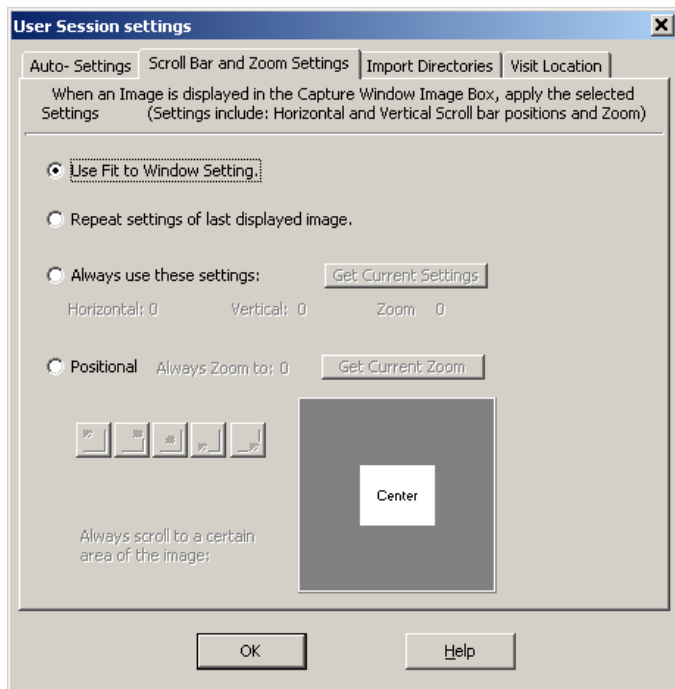
Auto Settings

Use the **Auto-settings** option to select the user options for tab and keyboard actions for the user session. Selecting **Options | Auto-settings** opens the **Auto-Settings** tab of the User Session settings dialog box, which is illustrated in the following image.



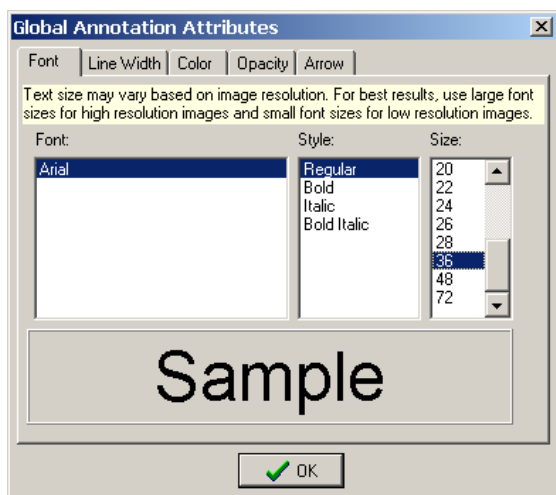
Scroll Bar/Zoom Settings

Use the **Scroll Bar/Zoom settings** option to customize the default zoom and scroll bar settings for a user. Selecting **Options | Scroll Bar/Zoom settings** opens the **Scroll Bar and Zoom Settings** tab of the User Session settings dialog box, which is illustrated in the following image.



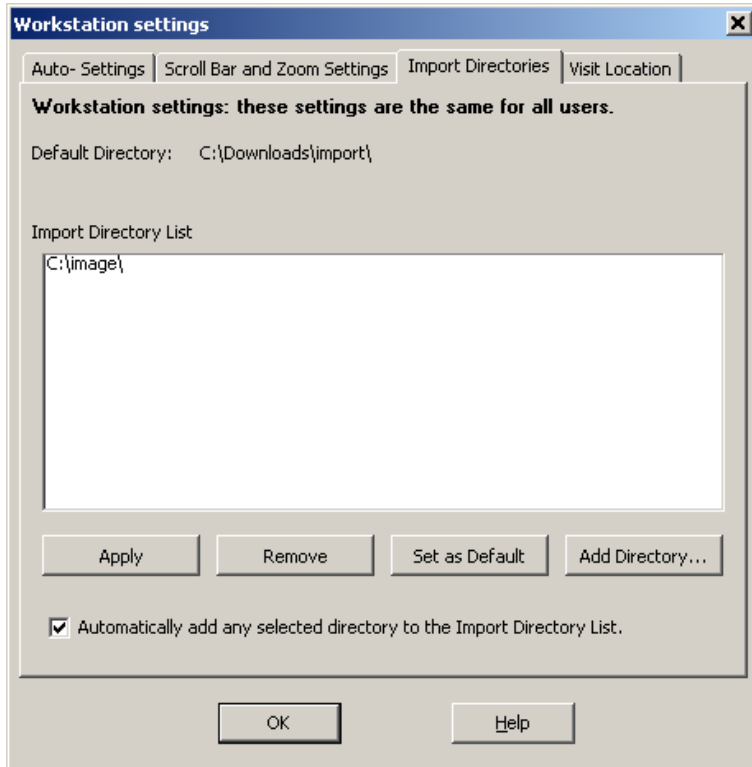
Annotation Settings

Use the **Annotation Settings** option to display the Global Annotation Attributes dialog box and to specify the global annotation attributes. For more information about the global annotation attributes, see *Setting Global Annotation Attributes*.



Import Directory Options

Use the **Import Directory Options** menu option to display the **Import Directories** tab in the Workstation settings dialog box and to set or modify the import directory settings for the workstation (set the default directory, add a new directory or remove an existing directory).

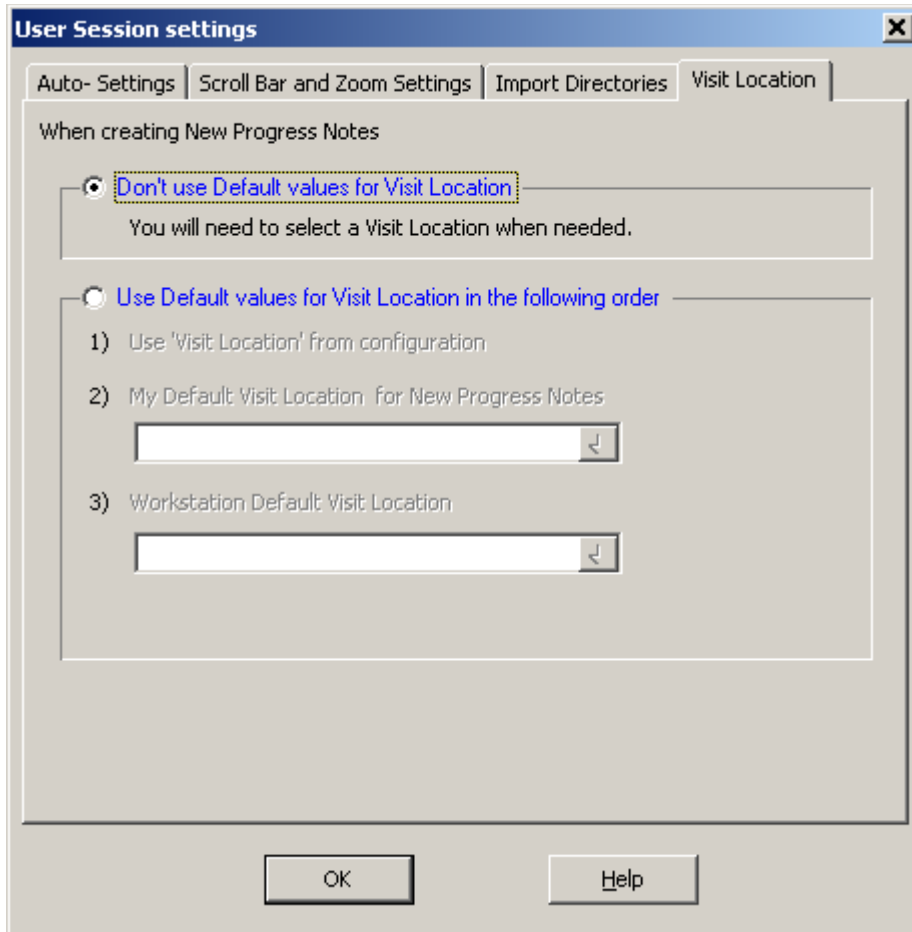


You can also display the **Import Directories** tab by choosing **Options | Import Options | Import Directory Options** as described in *Import Options*. For more information about importing documents, see *Importing Documents / Images*.

Visit Location

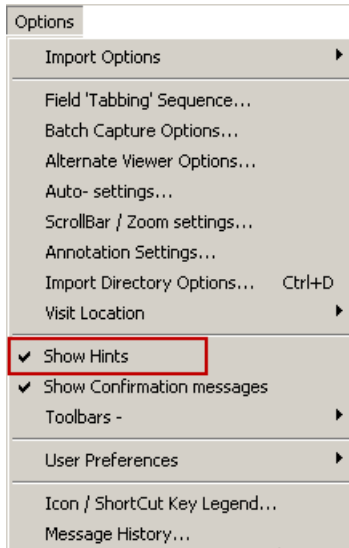
Option to select the default 'location' for new Progress notes when creating new TIU Notes. Visit Locations are locations found in the hospital (i.e. Wards, Clinics). User selects the Visit Location where the procedure took place.

The value of Visit Location is an entry in the HOSPITAL LOCATION File (#44).



Show Hints

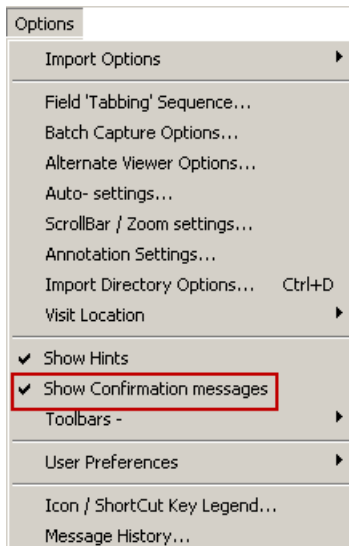
When the **Show Hints** option is selected, hints (tooltips) are displayed when you mouse over a toolbar button or a field.



Show Confirmation Messages

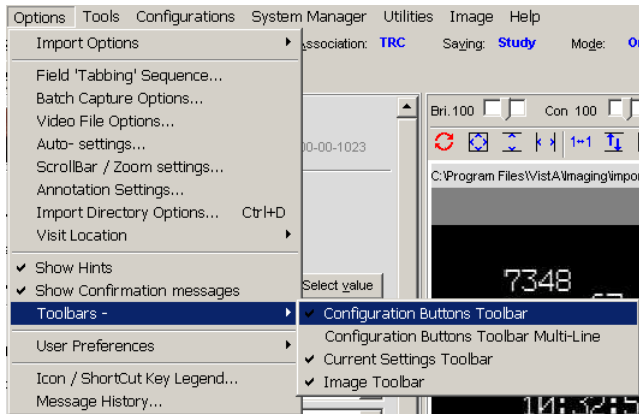
When the **Show Confirmation messages** option is selected, you will be prompted to confirm your choices and actions at certain points of the capture process. For example, a window may display prompting you to confirm an action by clicking **OK**.

The **Show Confirmation messages** option should be turned on (selected) for new users of VistA Imaging Clinical Capture.



Toolbars

You use the **Toolbars** option to customize the toolbars that are displayed.



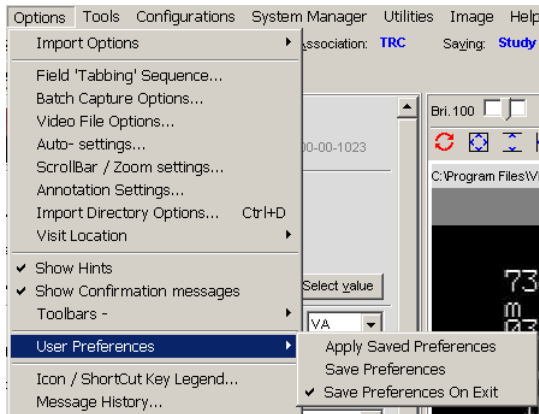
When an option is *checked*, the Capture window toolbar will be visible and display the saved configurations as buttons.

When *checked*, the current settings will be displayed at the top of the Capture Window. <Click> on a setting button to quickly change that setting only.

User Preferences

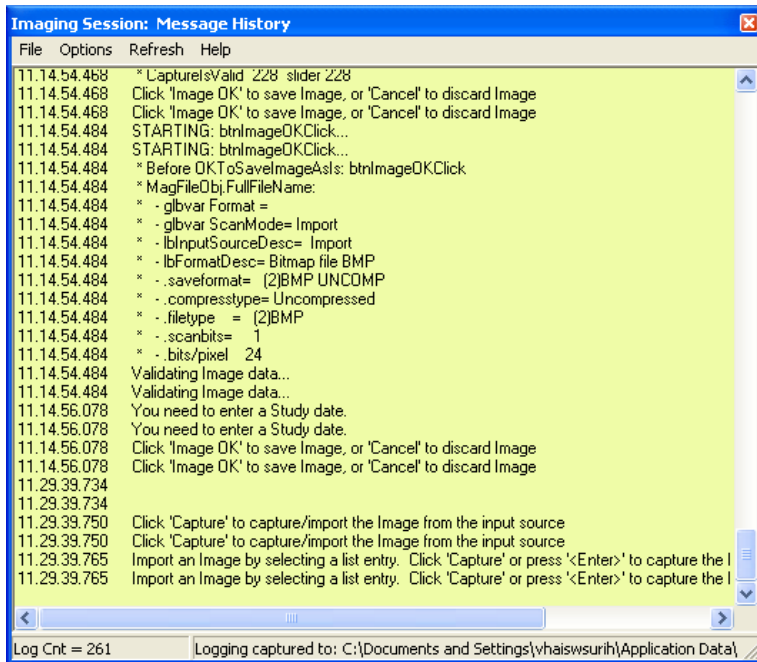
You use the **User Preferences** option to save all capture session settings controlled from the **Options** menu to the VistA system.

Once you save these settings, they will be applied every time you log into Clinical Capture, regardless of the workstation you are logged into.



Message History

Use the **Message History** option to display the Message History Window.



For more information about the Message History, see the *MagLogger User Guide*.

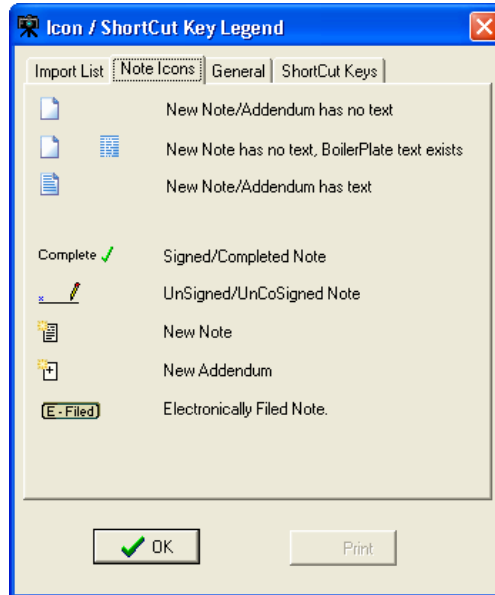
Icon / Shortcut Key Legend

This sub-section provides an explanation of the icons and shortcuts available and the legend.

<p>Import List, Note Icons, General</p>	<p>This menu has a legend of icons available in Clinical Capture.</p>
<p>Import List</p>	<p>Import List options tab has an explanation of the icons available in Import List Directory.</p>

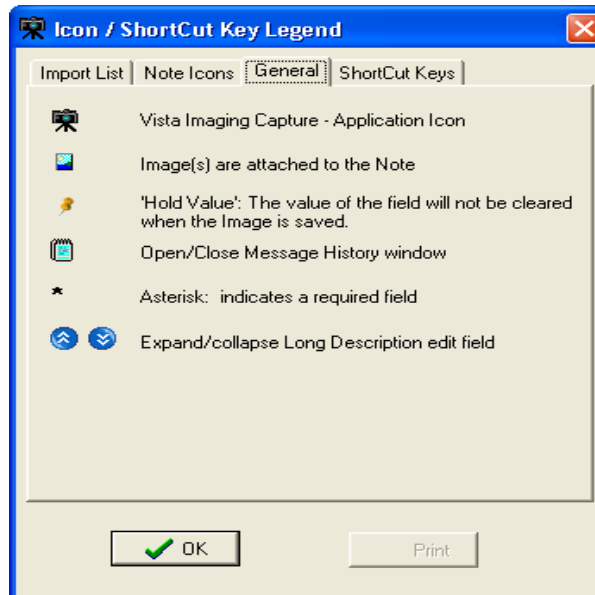
Note Icons

Note Icons options tab has an explanation of the icons available in Progress Notes Window.



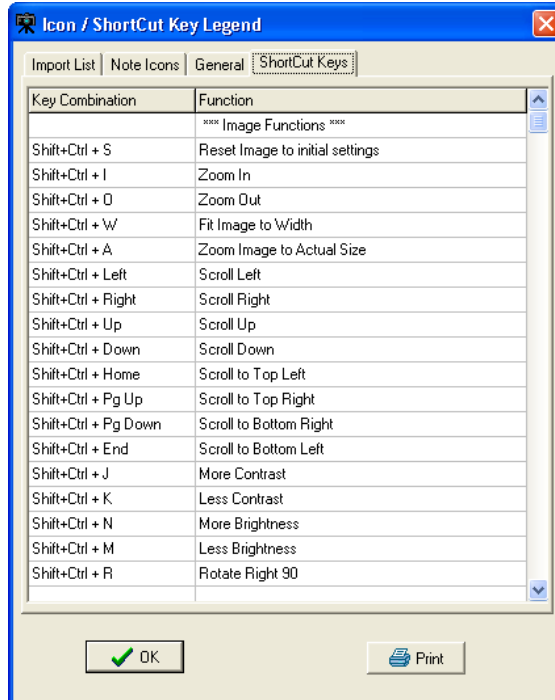
General

General options tab has an explanation of the icons available in Capture.

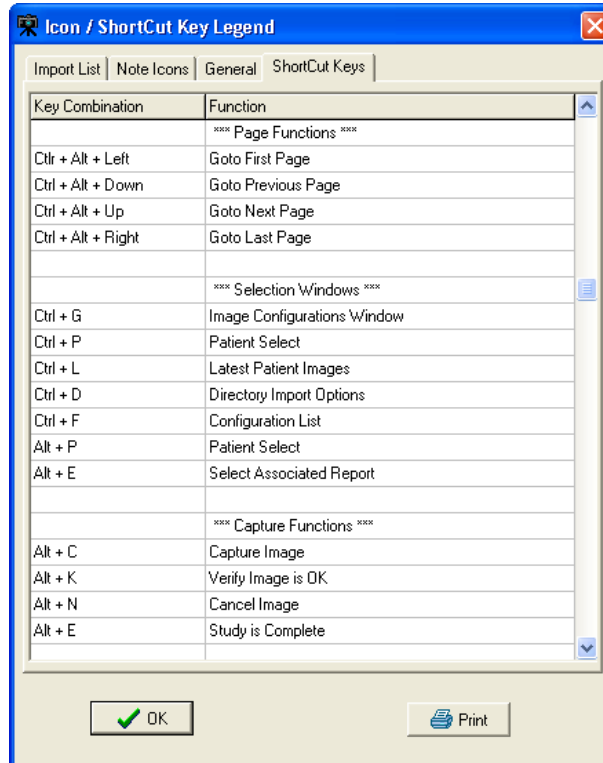


ShortCut Keys

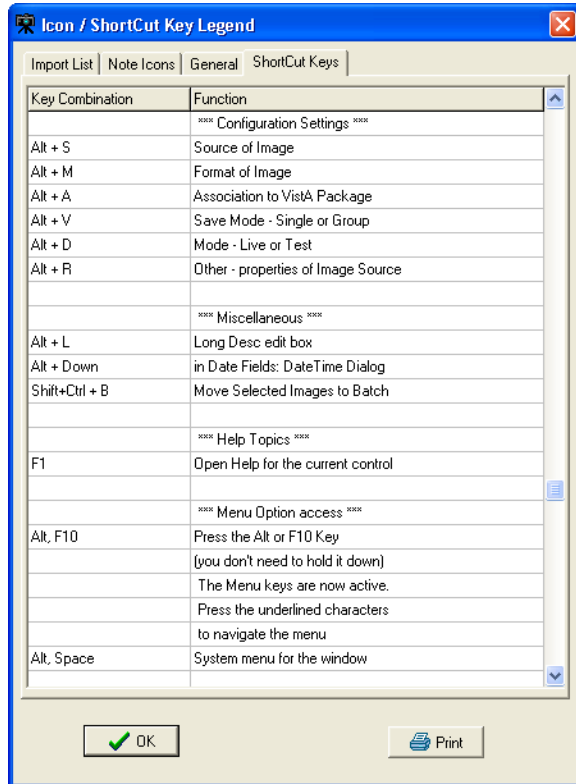
ShortCut Keys tab shows a list of Shortcut Keys available in Clinical Capture. Below are screenshots of all available shortcuts.



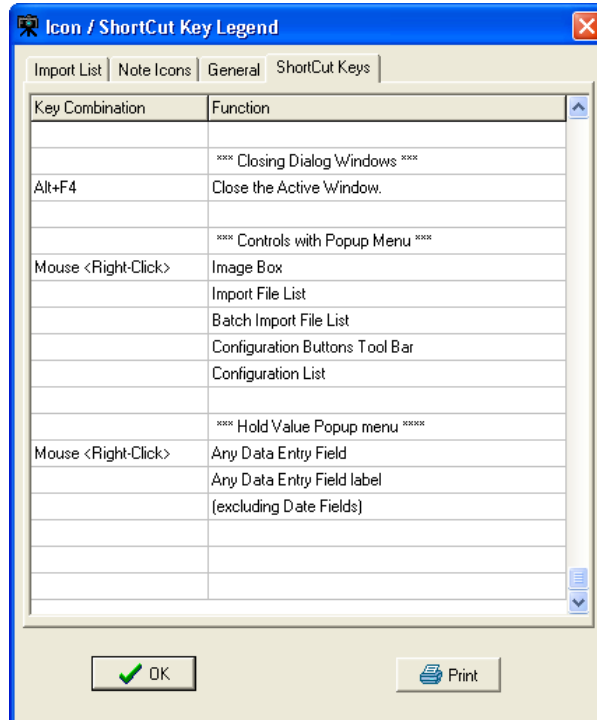
ShortCut Keys Continued



**ShortCut Keys
Continued...**

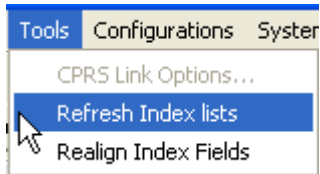


**ShortCut Keys
Continued...**



Tools Menu

This section provides an explanation for the options available under the Tools Menu.

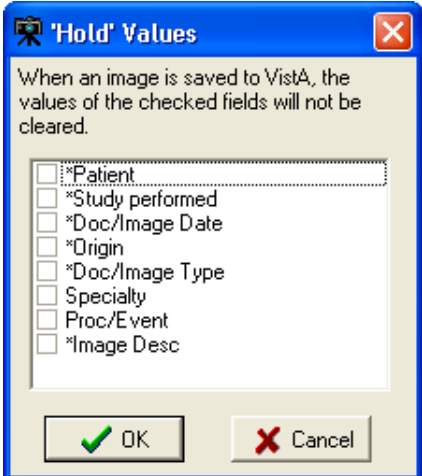


Option	Explanation
CPRS Link Options	Is enabled, if VistA Imaging Capture was started from the CPRS 'Tools' menu. Selecting this option opens the Imaging <-> CPRS Link window. The link between CPRS and Imaging can be disabled (broken).
Refresh Index lists	Operate on the Index.
Realign Index Fields	Executes the code to 'align' the index fields ... i.e. the input fields on the left side of the window.

Configurations Menu

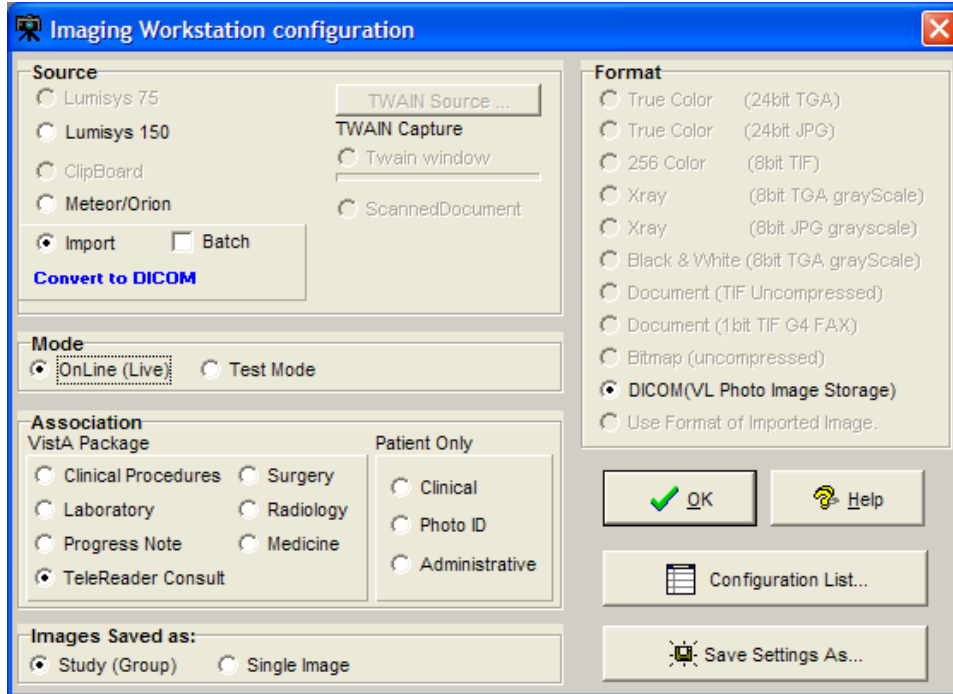
This section provides an explanation for the options available under the Configuration Menu.

Option	Explanation
Configuration Settings 	Opens the Configuration settings window. This option provides access to a submenu. The submenu lets you open the main Configurations dialog, or any of the dialogs typically opened from the configuration settings toolbar. The sub-menu options are: Source; Format; Association; Saving; Mode; Other. Image Capture settings can be changed using this option.

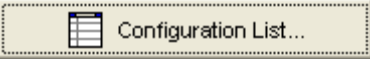
<p>Select 'Hold' Values</p>	<p>Hold values window opens. You can choose fields to hold values here.</p> 
<p>Configuration List</p>	<p>Opens Configuration List window. See below for more.</p>
<p>Save Configuration</p>	<p>Saves current configuration settings</p>
<p>Clear Configuration Values</p>	<p>Clears saved configuration settings</p>
<p>Numbers 1,2, 3</p>	<p>Represent recently saved configurations</p>

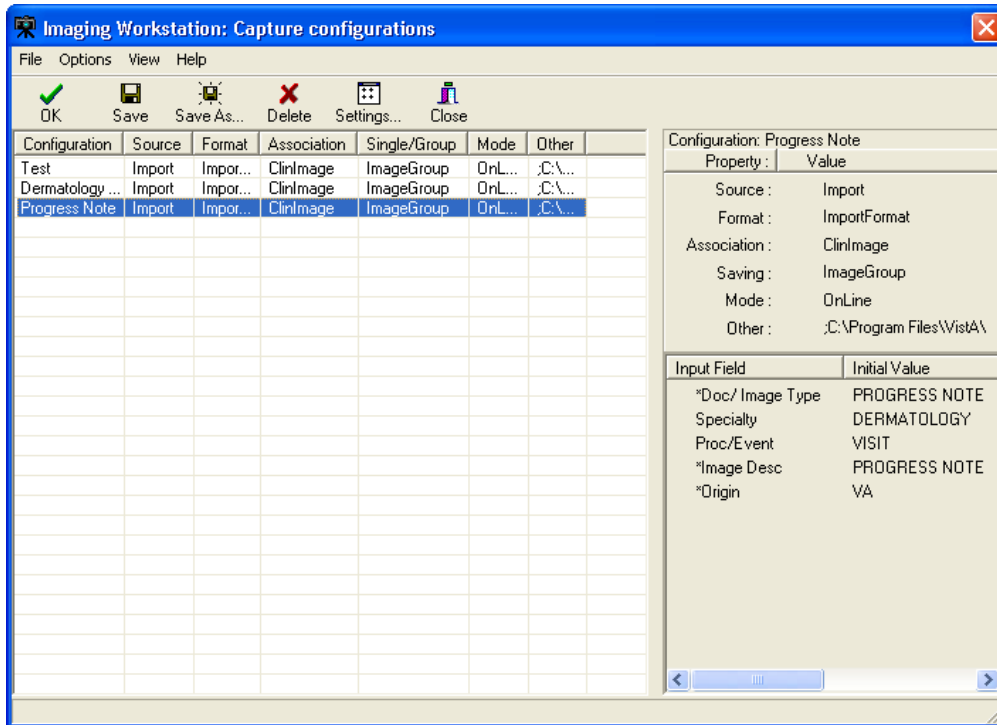
All Settings

All Settings window shows all available options for Configuration settings. Settings can be changed here.



Capture Configuration List

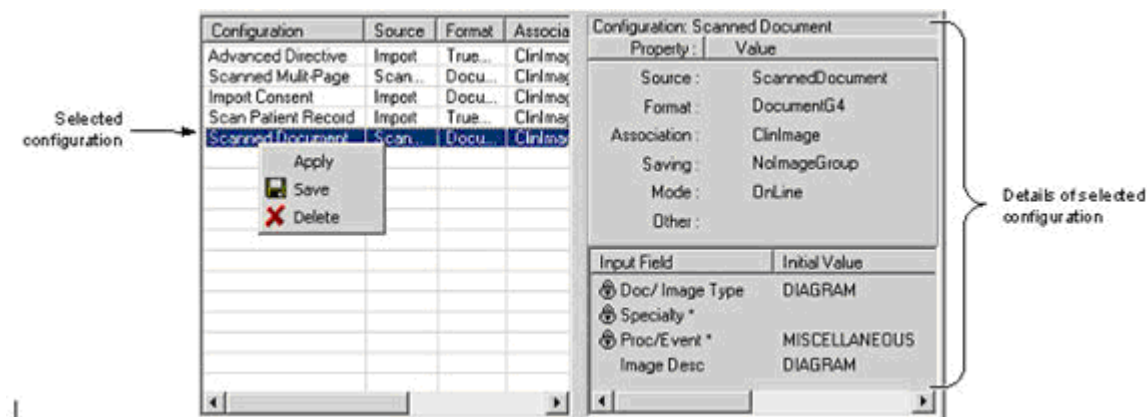
The Configurations window is where capture configurations can be created, edited and deleted. Click the  button to view the current configurations list.



The Capture configurations list, which is used to display information about current configuration definitions, provides flexibility in how that information is displayed.

Configuration Info. Pane

This is the pane on the right side of the Capture Configurations list window. This pane displays the specifics of a selected configuration definition.



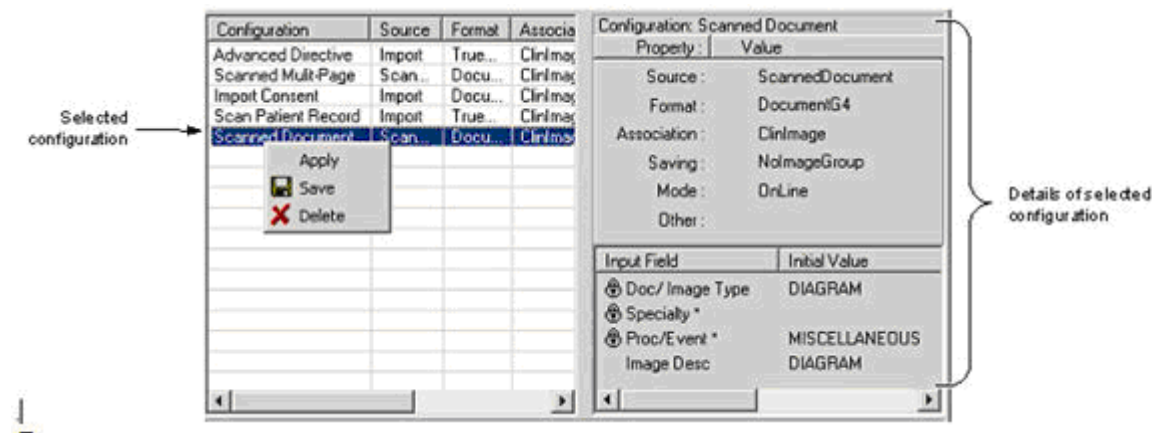
The top portion of the pane shows the 'standard' set of properties that can be set from the main Capture window or from the Configurations dialog.

- o also includes an "Other" entry that can display specific settings such as:
- o **Batch** - if it is checked during an import.
- o **Interactive** - if Meteor/Orion 'Interactive' is checked while using a Meteor/Orion capture board.
- o **Multi Page** - if the MultiPg Doc checkbox is checked during a Twain capture.

The *bottom portion of the pane* shows settings for the new Hold Value feature, and any initial values saved for specific index fields.

Configuration list

The configuration list on the left side of the window provides the following features:



- Selecting (clicking) a configuration definition will display settings for that definition on the right side of the window. In previous versions, clicking a list item would cause those settings to be applied.
- Selecting (clicking) a configuration definition, and then clicking Save, will cause the current settings in the main Capture window to be saved to (overwrite) the currently selected configuration definition.
- When a configuration is selected, it can be applied by pressing <Enter>, or by clicking OK. The dialog will close when a configuration is applied.
- A configuration can also be applied by double-clicking it with the mouse, or by right-clicking it, then selecting Apply.

When these methods are used to apply a configuration:

- The dialog will remain open.
- The configuration list can be sorted by column heading by double-clicking the heading.
- The columns in the configuration list can be also resized based on the available space in the dialog or based on the information in each column. Resize options are available under the Options menu.

- The user can customize the configuration list by selecting which columns are displayed or not.
This feature is available by choosing *Options | Column Select*.

View menu options let a user choose between views for the configuration list.

"Detail" View

Configuration	Source	Format	Associa
Advanced Directive	Import	True...	ClinIma
Scanned Multi-Page	Scan...	Docu...	ClinIma
Import Consent	Import	Docu...	ClinIma
Scan Patient Record	Import	True...	ClinIma

(a) 'Detail' view, containing details for each configuration definition.

"List" View

ClinImage Study
Admin Coorespondence
meteor INT
Clin single
Scanned Multi-Page

(b) 'List' view, an abbreviated list showing only the names of the configuration definitions. Details of a selected configuration are shown on the right side of the Capture Configurations window.

Menu for Capture configurations list

There is a menu bar at the top of the Capture Configurations dialog. All functionality for this dialog is accessible from the menu.

Menu options are summarized below.

Menu & Functionality

Options menu

- *Apply Selected Configuration*: applies selected configuration to main Capture window.
- *Fit Columns to Form*: resizes each column to fit in the visible area of the list.
- *Column Select*: opens the Column Selector window
 - The user can select which columns to display in the detail view of the configuration list.
- *Stay On Top*
 - If checked, this window will stay on top of all other windows in the application.

View menu

- List/Details:
 - Switches between List and Detail views.
 - Displays or hides the Capture Configurations dialog toolbar, described below.

Toolbar

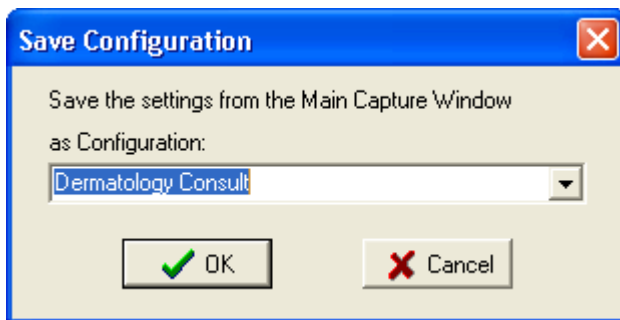
View menu can turn the toolbar on and off.



The OK button can be used to apply the currently selected configuration definition and close the Capture Configurations window.

Save Capture Configuration

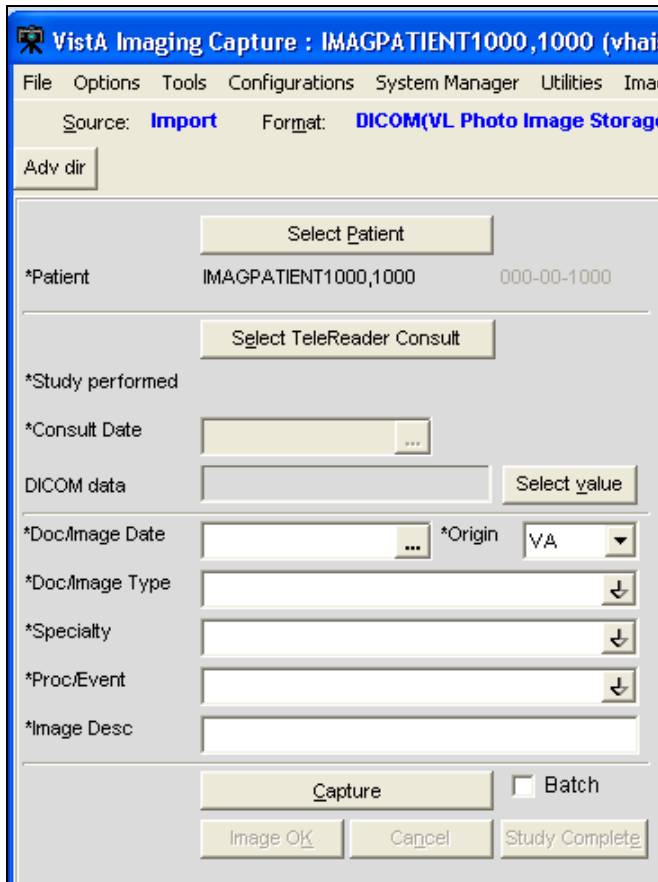
Click Save Configuration option under Configuration Menu. Name the Configuration created then click OK.



This dialog can be used to save the current state of the main Capture window as a new or existing set of configuration settings.

Clear Configuration values

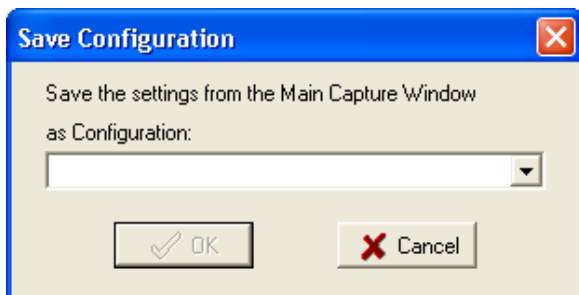
This option is used to clear the Image Workstation configuration screen of all its values except for the Patient name and Social Security number.



(1) **Configurations Settings** - option provides access to a submenu. The submenu lets you open the main Configurations dialog, or any of the dialogs typically opened from the configuration settings toolbar.

(2) **Select Hold Values** - option that opens the Hold Values dialog.

(3) **Save Configuration** - option allows direct access to the Save Configuration dialog.



This dialog can be used to save the current state of the main Capture window as a new or existing set of configuration settings.

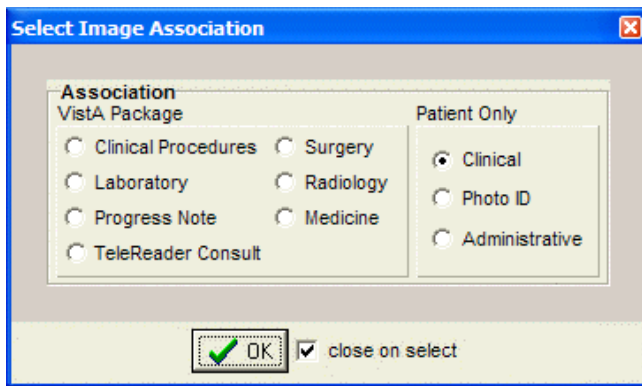
Properties Saved with Configuration Definitions

The following properties will be saved when a capture configuration definition is defined:

The **properties**:

- For each input field, the status of the ‘Hold Value’ feature will be saved. This feature can be used in some situations to reduce repetitive data entry.
- The current value of the index fields: Type, Specialty and Proc/Event, will be saved.
- The current value of the existing Image Description field will be saved.
- When Twain Window or Scanned Document is selected, the user can specify if multiple page documents are being scanned or not.

‘Association’ Configuration Settings



Designation	Use For
Patient Only/Clinical	Outside medical records, discharge summaries, etc.
Patient Only/Photo ID	Photo ID
Patient Only/ Administrative	Advance directives, means test forms, etc.

Workstation Configuration

Workstation Configuration allows the system manager to define a default configuration when VistA Imaging Capture is initially installed on a workstation.

An example of a default configuration is:

- Enabling only the input Sources, image Formats and Associations (medical and/or administrative images) that apply to this workstation.
- Defining default settings for input Source, Format and Association.

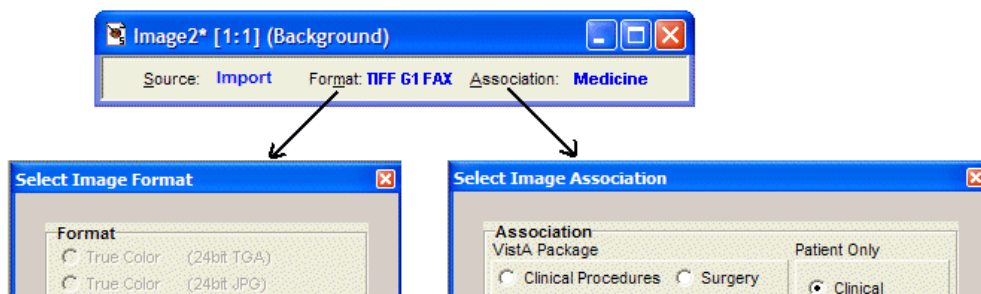
Because of the default configuration VistA Imaging Capture will be configured to begin capturing images when it is started.

Note: Some of the choices on the configuration window for input Source, image Format and Association will be grayed-out (disabled) because of the default configuration. If there is a need to have configuration settings enabled contact the System Manager.

Imaging Workstation Configuration Window

The toolbar used to show current settings at the top of the Capture window.

- Clicking the title of each setting will launch its dialog.



The related areas in the Imaging Workstation Configuration dialog:

'Auto Detect Image Format' for imported images:

- When images are imported from an image server (Source = Import), the Capture program will automatically determine the proper image format based on the filename extension (JPG, PDF, etc.) of the image. This will reduce the chances of

the incorrect image format being selected, and allows batch captures for groups of images with mixed formats.

This feature is reflected:

- in the main Capture window, when Import is selected as a Source,

(1) The Image Format indicated at the top of the window will initially appear blank.

(2) The Image Format of the image being captured will be shown when the capture is complete.

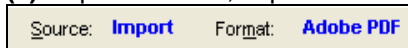
(3) The Image Format will be updated with each new capture.

For example:

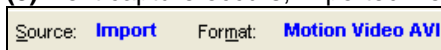
(1) Source initially set to Import



(2) Capture occurs, imported file is PDF format



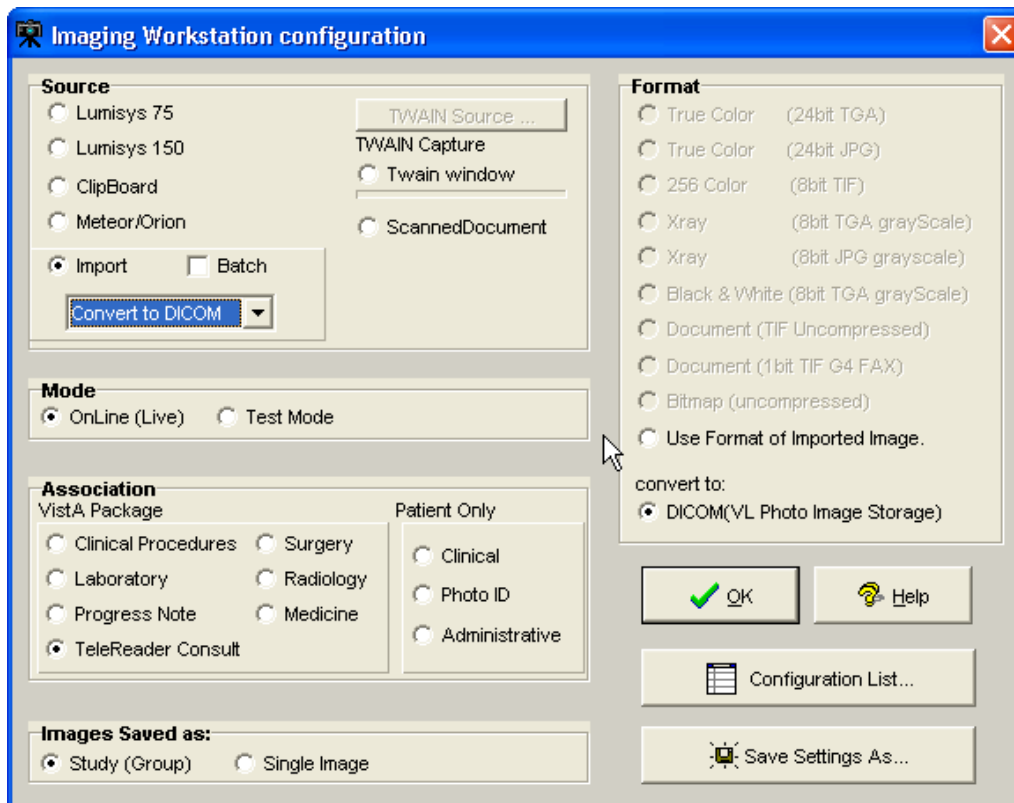
(3) Next capture occurs, imported file is AVI format



Use Format of Imported Image option, will automatically be selected when **Source** is set to **Import**. Other **Format** options will be disabled. This affects the **Select Image Format** dialog and the **Format** area of the Imaging Workstation Configuration dialog.

The Convert to DICOM option for Source Import:

The **Convert to DICOM** option allows converting images to DICOM format. You can select the **Convert to DICOM** option from the list box for **Import**. When **Convert to DICOM** is selected, the **Format : DICOM(VL Photo Image Storage)** is selected automatically. You must use the **Convert to DICOM** option when **TeleReader Consult** is selected as the **Association** choice.



The **Image Format** is used to indicate the type of image resulting from the capture process.

Possible formats include:

Image Format	Description
True Color TGA	24-bit image
True Color JPG	Meteor produces 640x480 pixels TWAIN produces a variety of resolutions: 256 color; 8-bit color image; variable spatial resolution depending on source.
X-ray	8 or 12-bit grayscale image
X-ray (JPG)	8-bit 8-bit grayscale JPG image
Black and White	8-bit grayscale image: 768x486 or 640x480 pixels
Document (TIF uncompressed) 1-bit	300x300 dpi (or other resolution)

Image Format	Description
Document (TIF G4 FAX)	TIFF G4 compression
Bitmap (uncompressed)	BMP image
Adobe	PDF Adobe Acrobat document
Rich Text	RTF Rich Text Format document
Motion Video	AVI motion video file
Text File	TXT file
Web Document	HTM Hypertext Markup file
Audio	WAV sound file
X-ray	Used for scanned x-ray films of any sort: includes Lumisys; may be used for other black and white images where exact manipulation of the grayscale is necessary.

NOTE: The greater gray scale or color dpi chosen the larger the physical file created. This will affect transmission and storage processing times.

Clinical Capture System Manager Options

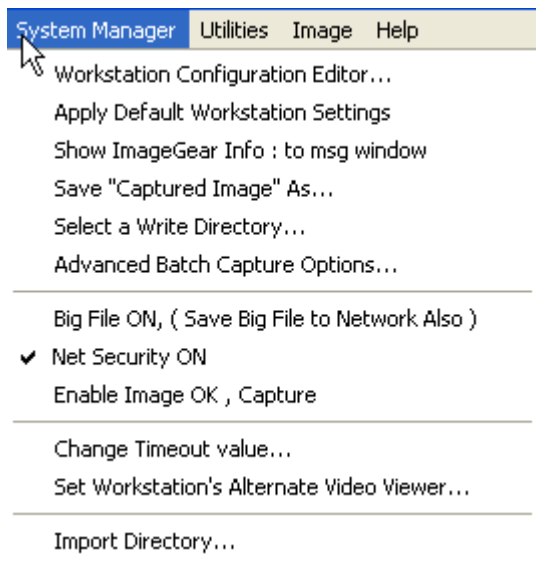
These are options that are available only to those who have the MAG SYSTEM KEY assigned to them.

If you **do not** have the MAG SYSTEM KEY assigned to you, you will not have these options available to you.

System Manager Menu

VistA Imaging Capture: System Manager Menu option

The System Manager Menu option in VistA Imaging Capture will be visible for users that have the Imaging Security Key "MAG SYSTEM" assigned to them.



Workstation Configuration Editor

Opens the Workstation configuration window where workstation settings can be modified. This is an alternate way to access the Workstation configuration window. This menu item simply runs MAGSYS.EXE

Apply Workstation Settings

Applies the current configuration settings from the Workstation configuration file to the VistA Imaging Capture Application.

Show ImageGear Info : to msg window

Opens the message history window and displays information about the current image.

(Intended for debugging purposes)

Save "Captured Image" As

Save an Image to the workstation. (intended for debugging and demonstration purposes)

Select a Write Directory

This option opens a window to select the Network Directory to save captured images to. (This is the only way to save an image to a directory other than the 'WRITE LOCATION' field in the SITE PARAMETERS File. The directory chosen will remain in effect for the remainder of this Capture session.

Advanced Batch Capture Options

Opens the 'Batch Capture Options' window.

During Image Import, if the check box 'Copy all associated files.' is checked, the import directory will be searched for files with the .BIG or .TXT extension that match the Imported filename. These files will be copied to the Network Directory along with the Imported Image.

Big File ON, (Save Big File to Network Also)

If using the Lumisys 100 scanner capable of scanning BIG files, check this option and the BIG file will be saved along with the reduced image.

Net Security ON

Turns ON/OFF Imaging Network security.

When Imaging Network security is ON, the Imaging system will make a connection to the Imaging Network Server as a user that is defined in the Imaging Site Parameters File and break 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 that is logged in to the workstation must have access to the Imaging Network server. (intended for debugging purposes)

Change Timeout Value

The VistA Imaging Capture Session will time out after a specific time of inaction. That time is set in the IMAGE SITE PARAMETERS File. That setting can be changed for individual workstations with this menu option. 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.

Set Workstation's Alternate Video Viewer

Select this option to open a file selection dialog window. In this dialog window, 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. 2.5) in the VistA Imaging Video Display window by default.

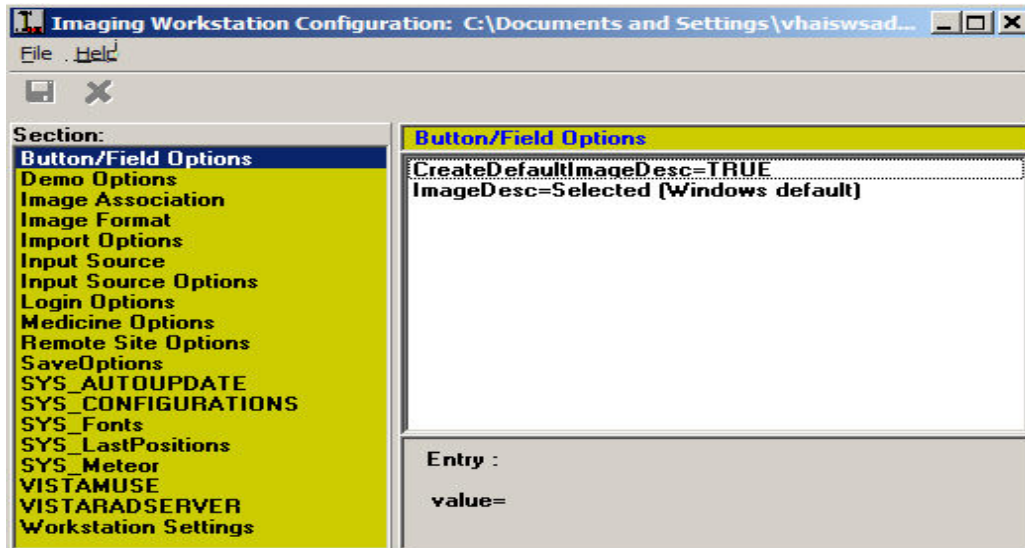
For an alternate video viewer to be used for video files, the 'Use Alternate Video Player' radio button must be selected in the Video File Options window.

The 'Options|Video File options' menu option opens the 'Video File Options' window. The User can select 'Use Alternate Video Player'.

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. The System Manager can change the alternate video file viewer for the workstation to a video file viewer selected in the open file dialog window.

Workstation Configuration

The Imaging Workstation Configuration Editor controls many workstation parameters for the VistA Imaging System. This option is only available to the holder of the MAG SYSTEM Security Key.



Button/Field Options:

This section contains an explanation of options under Button/Field Options

[Button / Field Options] selectable at runtime NO

This Section is for options that relate to edit fields and buttons in VistA Imaging Capture. (Currently only the Image description edit field has options.)

CreateDefaultImageDesc=TRUE default TRUE:

In the process of capturing an Image, a description must be entered for the Image. Set this entry = TRUE and the Imaging System will create a default Image description.

ImageDesc= (Three choices for the ImageDesc entry)

When the Image description date entry field has the input focus, the cursor can be positioned at various positions and the text can be selected or not selected.

- 1) Selected (Windows default)
Text will be selected and typing by user will overwrite text
- 2) NoSelectCursorEnd
Text not selected, typing by user will be appended to the end of the text

3) NoSelectCursorHome

Text not selected, typing by user will be inserted at beginning of the text.

NOTE: You can always type in whatever description you like. This option is intended for anyone, but especially for users capturing groups of images, or many related images. This will allow a default image entry, and additional text appended to it, without the need to first Un-Select the text or reposition the cursor.

Demo Options

[Demo Options] selectable at runtime NO

Open Abstract Window=TRUE default = TRUE

Set the Open Abstracts Window = TRUE if you want the Abstracts window to always open when you select a demo patient. NOTE: you can open the Abstracts window at any time by clicking the Abstracts button, or selecting the 'View|Abstracts' menu option on the Imaging Display window.

Image Format

[ImageFormat] selectable at Runtime YES

The following is a list of all of the possible image types. All entries in the Image Format section have true/false switches. At least one switch must be set to TRUE, and the default image type cannot be set to NONE. Only those entries set to TRUE are selectable by the user at runtime through the menu option 'Options|Configuration'.

True Color TGA=TRUE	default FALSE
True Color JPG=TRUE	default FALSE
256 Color=TRUE	default FALSE
Xray=TRUE	default FALSE
Xray JPEG=FALSE	default FALSE
Black and White=TRUE	default FALSE
Document TIF Uncompressed=TRUE	default FALSE
Document TIF G4 FAX=TRUE	default FALSE
Motion Video=TRUE	default FALSE
DICOM=TRUE	default FALSE
Audio=TRUE	default FALSE
Default=Xray	default NONE

You can prevent unnecessary confusion for the user, and phone calls for help. If you enable (device =TRUE), only the Image types that will be captured at this workstation.

Example: A workstation is connected to a Lumisys Scanner; the site manager has enabled Image Type 'Xray' only. On another workstation attached to a HP ScanJet he has enabled 'True Color JPG' and 'Document TIF G4 FAX'

Note: The Image format that is chosen by the user is saved with the image. The Image Type determines which Image Viewer to use when displaying the image with VistA Imaging Display.

Import Options

[Import Options] selectable at runtime YES/NO

Type=Copy to Server default 'Convert to TGA' selectable at runtime: NO
DefaultImportDir=c:\image: default 'C:\' selectable at runtime:
YES
(The default directory of images to import)
DefaultMask=*.TGA: default '*.*' selectable at runtime:
YES
(The default mask; only files matching the mask will be listed.)

The 'Import' input source allows the user to select an existing image file from their local workstation or Network directory to be imported into the VistA Imaging System. Importing involves identification of the patient and other image-related information.

The import may be done in several different ways:

The Type entry has 3 choices

- 1) Copy to Server
- 2) Convert to TGA
- 3) Convert File Format to Default

The Copy to Server mode means that the imported file will be copied to the server, receiving a new name assigned by VistA. The file extension of the copied file will be the same as that of the original file. The file is copied exactly. This option is especially important for a compressed file format such as JPEG. Its use means that the image data is not compressed again, resulting in further loss of quality. The VistA Imaging Display software will support the following formats: TGA, TIF, BMP, JPG, PCX, GIF, MAC, MSP, PSD, PCD, PCT (raster images in version 1 and version 2), Sun Raster, WMF (raster only), WPG (raster only). For any other formats, please ask the imaging staff (301-427-3700.)

The Convert to TGA mode is required at sites that are still operating Imaging version 1.0 display workstations based on Truevision Vista boards. This mode resaves the imported image to the Imaging file server using the TGA file format. This is an uncompressed format.

Input Source Options

[Input Source Options] selectable at runtime YES

- 256 Color Enabled=FALSE, default FALSE:
Set the 256 Color Enabled entry = TRUE if the Scanner you are using is capable of scanning 256 Color Images (8-bit color.)

Login Options

[LOGIN Options] selectable at runtime NO

LoginOnStartup=TRUE, default TRUE:

You can set LoginOnStartup=FALSE to disable the automatic login to the VISTA System. You can always login or logout by selecting the 'File|Login', 'File|Logout' Options.

AllowRemoteLogin=FALSE default FALSE

This setting determines whether the initial login (if LoginOnStartup=TRUE) will display a list of Remote VistA Sites to choose from.

Local VistA=BROKERSERVER default: BROKERSERVER

First, the Local VistA site must be defined. This is the VAMC that the Imaging System will connect to. The name typed into the edit box for the local site must match exactly an entry in the workstation's c:\windows\hosts. file.

Local VistA port=9200 default 9200

This entry refers to the TCP/IP port on the VISTA System that the Kernel Broker 'listener' process is using. Refer to the Kernel Broker documentation. Usually the port is 9200. If no entry is made 9200 is used.

Medicine Options

[Medicine Options] selectable at Runtime YES

Capturing images and associating the image with a Medicine procedure can be made a little smoother with the following settings.

Create New/List Existing= (choice of 2) default=Create New

1) CreateNew

2) ListExisting

Create Procedure stub first=FALSE default=FALSE

If the Imaging workstation will always be associating the captured images to New medicine procedures, then select Create New, this will set the Medicine procedure selection window default to Create /New procedure.

If 'ListExisting' is selected then the medicine procedure selection window will default to showing a list of patient procedures for the selected Medicine SubSpecialty.

When a captured image is associated with a New medicine procedure, the medicine procedure isn't normally created until the first image is saved. If the user has a need to edit the medicine

procedure text before the image is saved set Create Procedure stub first=TRUE. The user will have to be logged into VistA Imaging to edit the procedure text.

Save Options

[SaveOptions] selectable at runtime YES

Default=Group (2 Choices for Default) default=GROUP

1) Group

2) Single

The user of the Imaging System Capture window has the option of saving multiple images as a 'Study Group' or of saving the images as 'Single' images. The default value is GROUP. You can set the switch to GROUP or SINGLE.

Association

[Association] selectable at runtime YES

This section of the mag.ini file controls which VistA package the captured image will be associated with and hence where the reports associated with the image will be located. Choices include:

Laboratory =FALSE default=FALSE

Medicine =FALSE default=FALSE

Radiology =FALSE default=FALSE

Surgery =FALSE default=FALSE

PhotoID =FALSE default=FALSE

Progress Notes =FALSE default=FALSE

TeleReader Consult=FALSE default=FALSE

None =FALSE default=FALSE

Default=None default=NONE

The Default item should be set for the package which is most commonly used for image capture from this workstation. The Image Capture window will be initially configured for the default package when the window is opened. Select the package to be changed from the list box shown by clicking it. Use the radio buttons at the bottom to select True or False. The Imaging System Capture window user will be able to select from all Associations set to True.

To set the default package, select Default from the list box. Select the abbreviation for the default package from the pull-down list shown below. All entries in the Association section have true/false switches. At least one switch must be set to TRUE, and the default specialty should not be set to NONE. Only those entries set to TRUE are selectable by the user at runtime through the menu option 'Options|Configuration' .

Setting None=TRUE will allow you to select a User Defined Specialty/Category to associate with the image.

SYS_AutoUpdate

[SYS_Autoupdate]

This section of the configuration file is no longer valid. VistA Imaging Auto updating is no longer supported. For other automatic installation methods, consult the *VistA Imaging Installation Guide*.

SYS_Configurations

[SYS_Configurations] selectable at runtime YES

1=Import,JPEG,Med,Group=+import+TrueColorJPG+medicine+imagegroup++online

2=Import,JPEG,Lab,Single=+import+TrueColorJPG+laboratory+NoImageGroup++online

These entries are modified by the Imaging Application: do not modify these yourself. These entries keep information for the user definable 'Hot Buttons'. The 'Hot Buttons' allow the user to quickly change the Input Type, Image Type, Specialty, Single/Group and Mode settings to saved values.'Hot Buttons' are described in the 'Imaging Workstation Configuration' Window section.

By creating Hot Buttons for a Capture workstation (creating Hot Buttons is optional) you will allow the user to switch configurations with one click of the mouse. The user will not have to take the time to select each setting from the list of available Image Types, Input Types, Specialties, etc.

Note: The entries shown here are examples only. When you first setup an Imaging Workstation for Capture, there are no Capture configurations defined.

SYS_Fonts

[SYS_Fonts] selectable at runtime NO

This is used by the Imaging System to record the fonts of certain controls and windows in the Imaging Applications.

Some of the controls that the font can be changed are: Report Window, Patient Lookup selection list, Surgery selection list and others.

Do not modify these entries yourself, it is maintained by the imaging system.

SYS_LastPositions

[SYS_LastPositions] selectable at runtime NO

This is used by the Imaging System to record the last positions of the application's windows.

Do not modify these entries yourself, it is maintained by the imaging system.

SYS_Meteor

[Sys_Meteor] selectable at runtime YES

These entries are modified by the Imaging Application: do not modify these settings yourself. These entries are used by the system as parameters for capturing images with the Meteor Input Type.

VISTA MUSE

[VISTAMUSE] selectable at runtime YES

The VISTAMUSE section holds information specific to the VistA MUSE windows. These windows interface with the Marquette MUSE Database to access patient EKG's.

IMAGESIZE=1132,738	no default;
GRIDON=TRUE	default TRUE
ShowDottedGridDlg=TRUE	default TRUE
PrintDottedGrid=TRUE	default TRUE
SiteNumber=0	default 0

Changing the size of the EKG image with the Zoom controls will increase the IMAGESIZE, and the last image size is saved to this section.

The Grid On/Off setting is also saved.

Printing of the grid has caused some problems on certain printers. If the grid on a printed EKG is not visible or consistent, try the Print Dotted Grid. The Dotted Grid seems to print consistently on most printers.

The MUSE Database can have more than one site number. Each site number is stored in a separate directory on the MUSE Server. Directories are given names starting with 'Site' i.e. Site01, Site02, Site03...A field in the Imaging Site Parameters file is set to a site number and all Imaging Workstations use the setting in that field. You can change this entry, if you need to have an individual workstation connect to a different site number.

Notes:

- Setting SiteNumber = '0' (zero) tells the workstation to use the Imaging Site Parameters file setting.
- AutoUpdating section in the installation guide explains how to automatically update each workstation with the MUSE MainServerName and MainVolName. These entries in the WIN.INI file are used when the workstation connects to the MUSE Database to access EKG's.

Workstation Settings

[Workstation Settings] selectable at runtime NO

These are workstation settings that relate to various areas of VistA Imaging.

ID=IRD default=UNKnown

Workstation ID, i.e. 'IAD' a unique identifier for this workstation, used in the Imaging Access Log File (2006.95.)

Location=Ruth's_Desk default=UNKnown:

Location of the workstation, a unique free text field, i.e. "GI Conference Room."

Abstracts created=True default=TRUE

This should be set to True if the Image Abstract is to be created by the workstation. If set to FALSE the Image Abstract will be created by the Imaging Background Processor Workstation.

Save Radiology BIG file=True default=FALSE

This should be set to True if the 2k x 2k scanned x-ray file is to be saved along with the 1k x 1k file and the abstract.

Display JukeBox Abstracts=TRUE, default TRUE:

Displaying Abstracts that are located on the JukeBox takes longer than if the abstracts are on the magnetic image server. To stop the display of Jukebox Abstracts set this entry = FALSE.

Log Session Actions=FALSE default FALSE

A record of all Actions performed by the user of Imaging System display window can be saved by setting this entry = TRUE.

MUSE Enabled=TRUE default FALSE

MUSE Demo Mode=FALSE default FALSE

Not for general use. This setting is for Demonstrations given by the Imaging Implementation team.

Allow Image SaveAS=FALSE default FALSE

Not for general use. This setting is for saving images to the local drive, to be used in demonstrations of the Imaging system.

Fake Name=Fake,PatientName default 'Fake,PatientName'

Allow Fake Name=TRUE default FALSE

The Fake Name will be used on all Imaging Display windows and reports from VistA. Only Textual changes are made. Images that have the patient name visible will still have the patient name visible in this type of demo.

This is a way of demonstrating the Imaging system to an audience using a Real Patient. This is not for general use.

Note: When displaying images using Fake,PatientName, the Images are the Real images for the patient and for Images that have the patient name burned into the image, the name will be visible. Typically for Ultrasound and Angiography/Fluoroscopy images. This mode of Demonstration should be used with caution. The Images to be shown in a demonstration of this type should be viewed before hand to make sure the patient name is not visible.

Workstation Timeout minutes=120 default 0

This setting if other than 0 (zero) will override the Imaging application timeout fields in the Imaging Site Parameters File. It will apply to all Imaging applications run on this workstation. i.e. Display, Capture, VistARad.

If this setting is 0 (zero) then the timeouts that are entered in the Imaging Site Parameters File will apply.

[Workstation Settings] selectable/changeable at runtime YES

Use Alternate Video Viewer=FALSE default FALSE

VistA Imaging will display Video files (only video files of type AVI) in a custom Video Window. An Alternate viewer can be selected. Set this value to TRUE and video files will display in the default video viewer defined for the workstation. (see "Alternate Video Viewer") If no alternate viewer has been defined for this workstation then the video file will display in the default viewer defined for the Windows operating system. This setting is changeable from the Video File Options window.

Alternate Video Viewer="" default ""

Select the menu option 'System Manager|Set Workstation's Alternate Video Viewer' to define a specific video viewer for this workstation.

Play Video File=FALSE default FALSE

Setting this value to TRUE will automatically play the video file when selected. This setting is changeable from the Video File Options window.

VistA Imaging Capture Application:

The following settings apply to VistA Imaging Capture:

[Workstation Settings] selectable/changeable at runtime YES

Import List height=123

The last height of the 'Import file list' is saved. The height can be changed by 'dragging' the separator bar directly above the Import list.

LongDesc height=80

The last height of the 'Long Description' field is saved. The height can be changed by 'dragging' the separator bar directly above the Long description field.

Config Toolbar=TRUE default TRUE

The visible state of the Configuration Toolbar is saved. Select (check) the Capture menu option 'Options| Saved Configurations Toolbar' to display the toolbar.

Settings Toolbar=TRUE default TRUE

The visible state of the Settings Toolbar is saved. Select (check) the Capture menu option **Options|Current Settings Toolbar** to display the Settings Toolbar.

Large Slider Controls=TRUE default TRUE

The size of the slider controls is saved. Slider controls are used to change the Brightness, Contrast and Zoom values for the Image. Select (check) the Capture menu option 'Options|Large Slider controls' to change the size.

Close Quick Setting=TRUE default TRUE

Capture Hints=TRUE default TRUE

Select (check) the Capture menu option 'Options| Show Hints' to have hints display when the mouse is above a control. This value is saved.

Capture Confirmation=TRUE default TRUE

Select (check) the Capture menu option 'Options| Show Confirmation messages' to activate the confirmation window function. When active, a confirmation window will be displayed before images are saved to VistA.

Capture Maximized=TRUE default FALSE

This setting is saved when the Capture application is closed. If the Capture window was maximized when it was closed, it will be maximized when it is started again.

Data Entry Width=300

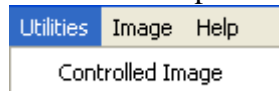
The width of the 'Data Entry panel' is saved.

ToolBarPosition=TOP default TOP

In the Capture Application, the Image manipulation toolbar can be repositioned. The last position is saved. To reposition, right-click the toolbar to activate the shortcut menu and select from Top, Left or Right.

Utilities Menu

This section explains the Utilities Menu options located in the Menu Bar.




Controlled Image

Controlled Image:

This section explains the Controlled Image option under the utilities Menu. Below is an explanation of Controlled Image as well as how to capture controlled images using the Utilities Menu..

Shown below is the default abstract for Controlled Image

	<p>This abstract is displayed when an Image is marked as ‘Controlled’ A controlled image won’t display in the Abstracts window. But will display normally when selected. This gives the Physician a visual indication that there is something sensitive about the Image.</p>
--	--

The Controlled Image field can be used to specify that the image contains graphics or data of a sensitive nature. The Display Client gives the user a visual indication through the use of icons and abstracts that the image is controlled.

The Controlled Image property gives the site the opportunity of marking an Image as controlled. In the image list and tree view controls of the Imaging Display Client, controlled images will have an icon displayed in the first column that distinguishes it as controlled. The Abstract for a controlled image will not be shown. Instead of the abstract, a bitmap signifying that this image is controlled will be shown. When the image is opened, it will display as always. The controlled value can be changed for an image in the Image Index Edit window. Users with the Security Key ‘MAG EDIT’ will have access to the Index Edit window.

Setting the ‘Controlled’ Image property

VistA Imaging Capture :

Capturing Single Image

In VistA Imaging Capture, when you are capturing a single image, before you click the ‘Capture’ button, select the menu option ‘Utilities’ | ‘Controlled Image’. The phrase ‘Controlled Image’

will be displayed to the left of the Capture Button as a visual indication that the image about to be captured will be flagged as controlled.

Capturing Group using Batch Capture

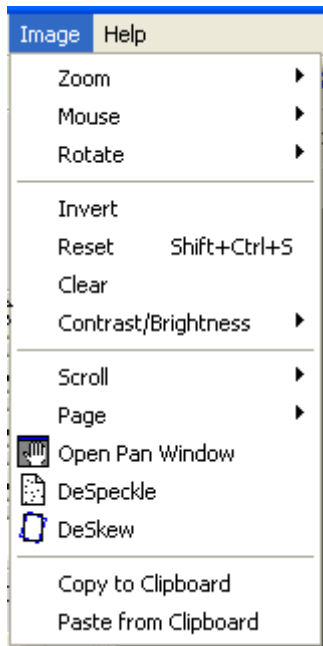
In VistA Imaging Capture, when you are capturing a batch of images as an Image Group, before you <click> the 'Capture' button, select the menu option 'Utilities' | 'Controlled Image'. The phrase 'Controlled Image' will be displayed to the left of the Capture Button as a visual indication that the Image Group about to be captured will be flagged as controlled.

Capturing Group (not using batch capture)

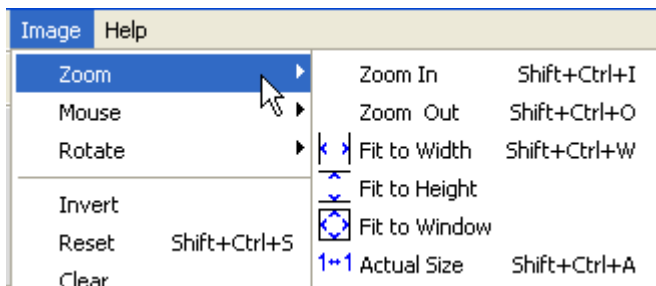
In VistA Imaging Capture, when you are capturing multiple images as an Image Group, before you <click> the 'Capture' button, select the menu option 'Utilities' | 'Controlled Image'. The phrase 'Controlled Image' will be displayed to the left of the Capture Button as a visual indication that the Image about to be captured will be flagged as controlled. This gives a way to mark only certain images of the Group as 'Controlled'.

Image Menu

Image Menu has options for Image manipulation. See below for explanation of the available options.



Zoom



Zoom sub-menu has options to size/re-size an image.

Click To...

Zoom 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 image to the entire window (vertical and horizontal)

Actual Size to show image in its original size

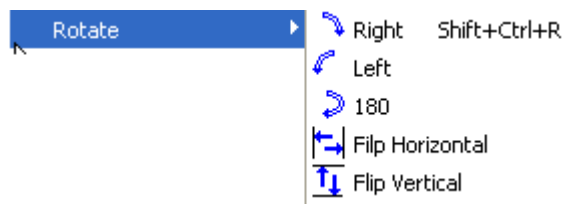
Mouse



Mouse sub-menu has editing options available to size/re-size an image.

Click	To...
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

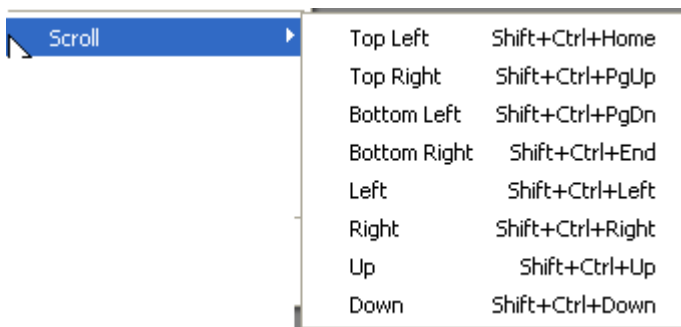
Rotate



Rotate sub-menu has options to change image orientation.

Click	To...
Right	to rotate an image to the right
Left	to rotate an image to the left
180	to rotate an image 180 degrees
Flip Horizontal	to flip an image horizontally
Flip Vertical	to flip an image vertically

Scroll

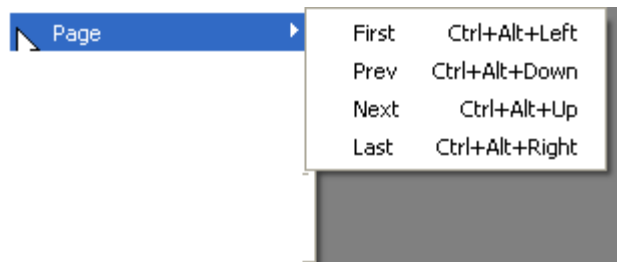


Scroll sub-menu has options to scroll through the image.

Click	To...
-------	-------

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

Page



Page sub-menu has options to scroll through multiple pages, if available

Click	To...
First	go to first image in study
Prev	go to previous image
Next	go to next image
Last	go to last image

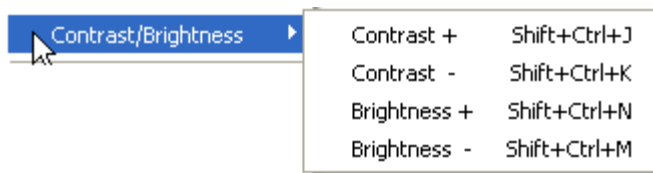
Reset

Resets image to its original size.

Clear

Clears image from the capture window.

Contrast

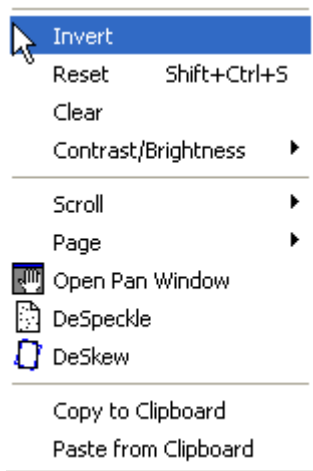


Contrast sub-menu has options to adjust image contrast and brightness.

Click	To...
Contrast +	increase image contrast
Contrast -	decrease image contrast
Brightness +	increase image contrast

Brightness - decrease image contrast

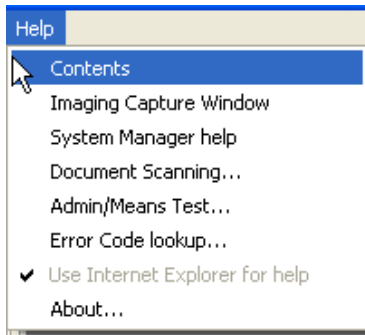
Other options:

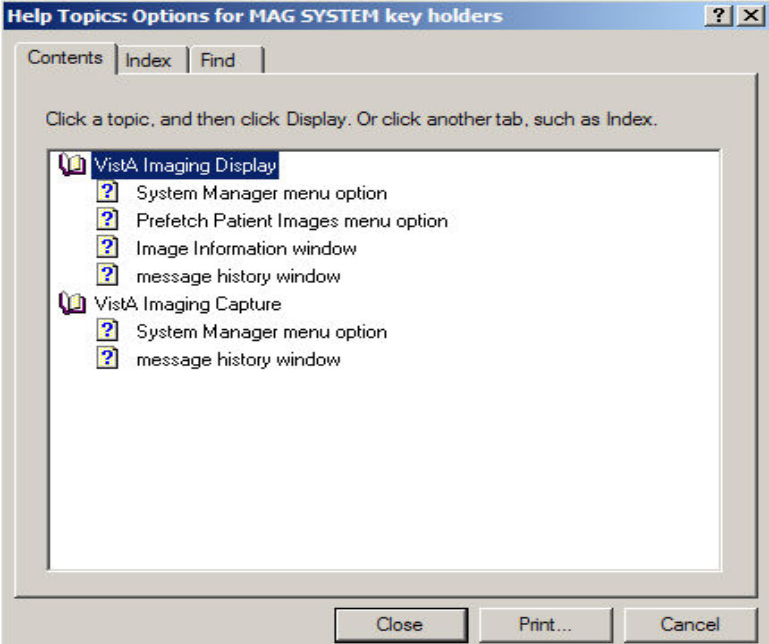


- Invert invert an image
- Reset reset image back to original
- Clear clears image from the screen
- Open Pan Window opens a pan image window. Pan window indicates the area **within** the image that is being examined.
- DeSpeckle despeckle image.
- DeSkew deskew image - straighten images that have been captured at an angle.
- Copy to Clipboard copy image
- Paste from Clipboard paste image

Help Menu

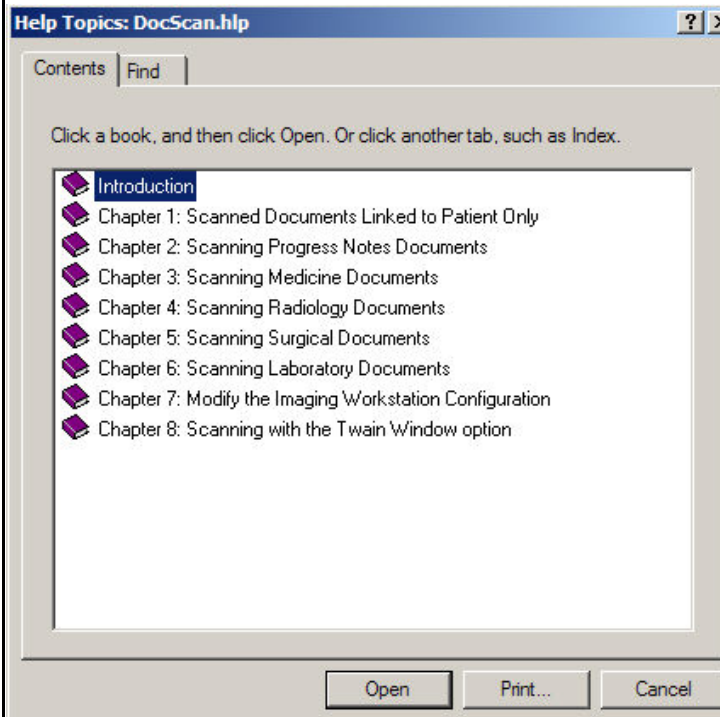
This section explains the Help Menu options in VistA Imaging Capture.



Contents	Opens the contents page of On-Line help for VistA Imaging.
Imaging Capture Window	Opens the Imaging Capture Window page of On-Line Help.
System Manager help	<p>Opens the 'Options for MAG SYSTEM key holders help topics.</p> 

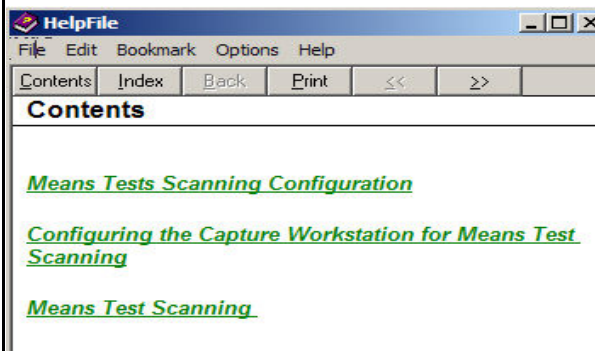
Document Scanning

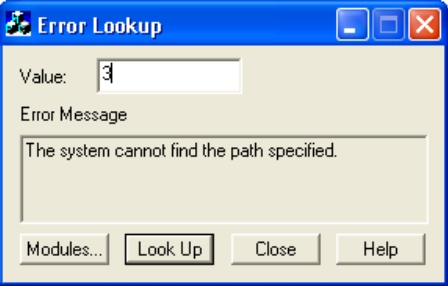
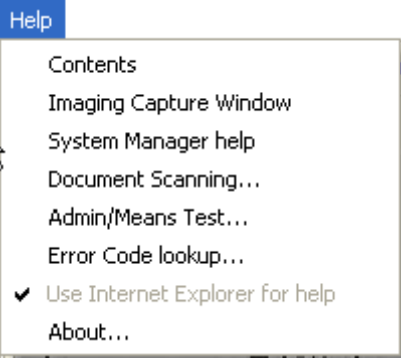
Displays 'DocScan.hlp' help file.



Admin/Means Test

Displays the Admin/Means Test Help file



<p>Error Code Lookup</p>	<p>Opens the 'Error Lookup' window. A short description will be displayed for the error code entered.</p> 
<p>Use Internet Explorer for help</p>	<p>Launches the Internet Explorer to open help files</p> 
<p>About</p>	<p>Displays VistA Imaging version information.</p>

Security Keys

Note: If the ‘CAPTURE KEYS’ site parameter has been initialized, (set to True), the following keys will need to be assigned appropriately.



Capture-related Security Keys	
MAG CAPTURE	Allow capture of clinical images without a VistA Package association (i.e. ‘Patient Only: Clinical’ on the Imaging Capture configuration window).
MAG NOTE EFILE	User can electronically file notes without an electronic signature from the Imaging Capture workstation.
MAGCAP ADMIN	Allow capture of administrative images to image association ‘Patient Only : Administrative’
MAGCAP CP	Allow capture of Clinical Procedure images.
MAGCAP LAB	User can capture Laboratory images from the Imaging Capture workstation.
MAGCAP MED C	User can capture Cardiology images from the Imaging Capture workstation.
MAGCAP MED G	User can capture GI images from the Imaging Capture workstation.
MAGCAP MED GEN	User can capture Generic Medicine images from the Imaging Capture workstation.
MAGCAP MED H	User can capture Hematology images from the Imaging Capture workstation.
MAGCAP MED HI	User can capture Internal Medicine / Hematology images from the Imaging Capture workstation.
MAGCAP MED I	User can capture Internal Medicine images from the Imaging Capture workstation.
MAGCAP MED N	User can capture Neurology images from the Imaging Capture workstation.
MAGCAP MED P	User can capture Pulmonary / Endoscopy images from the Imaging Capture workstation.
MAGCAP MED PF	User can capture Pulmonary Function Test images from the Imaging Capture workstation.
MAGCAP MED R	User can capture Rheumatology images from the Imaging Capture workstation.

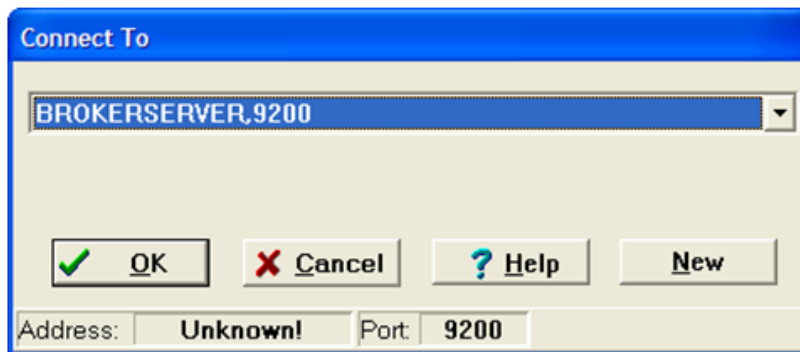
Capture-related Security Keys	
MAGCAP MED Z	User can capture Consult images from the Imaging Capture workstation.
MAGCAP PHOTOID	User can capture Photo ID images from the Imaging Capture workstation.
MAGCAP RAD	User can capture Radiology images from the Imaging Capture workstation.
MAGCAP SUR	User can capture Surgery images from the Imaging Capture workstation.
MAGCAP TIU	User can capture TIU images from the Imaging Capture workstation.
MAGCAP TRC	User can capture images associated with a TelerReader Consult from the Imaging Capture workstation.

Appendix A: Supplemental Logon Screens

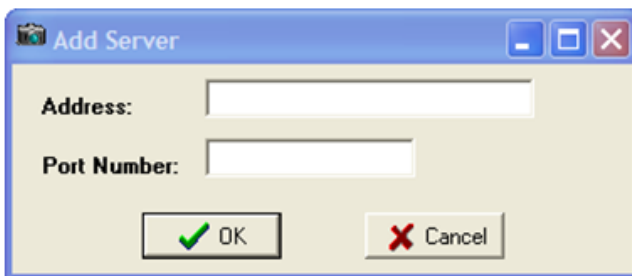
When logging in to Clinical Capture you may see some screens that are not described in the section *Logging In and Starting Clinical Capture*. This appendix describes an alternate logon method, which includes these screens. You will see these screens when using remote login (logging into a VistA system at another site) and if the site has different divisions to which your user can log in.

To log into Clinical Capture as a standalone application (not from CPRS), from the workstation do the following:

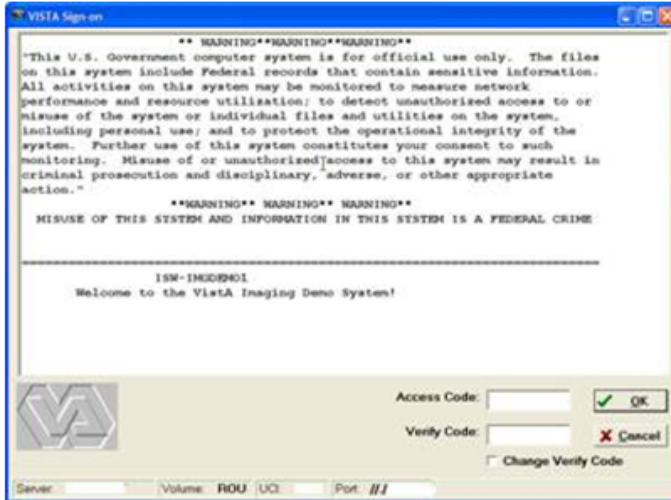
- Double-click the Capture shortcut  on the Windows desktop. If a shortcut is not available, click , then choose **All Programs | VistA Imaging Programs | VistA Imaging Clinical Capture 32-bit**.
- Select the server you have been instructed to log in to from the Connect To window. Then, click **OK**.



- If the server is *not* listed in the drop down list of the Connect To window, select **New** from the list and enter the **Address** and **Port Number** in the Add Server window that displays. You can get the server information from either your site administrator or by calling the help desk. Then, click **OK**.



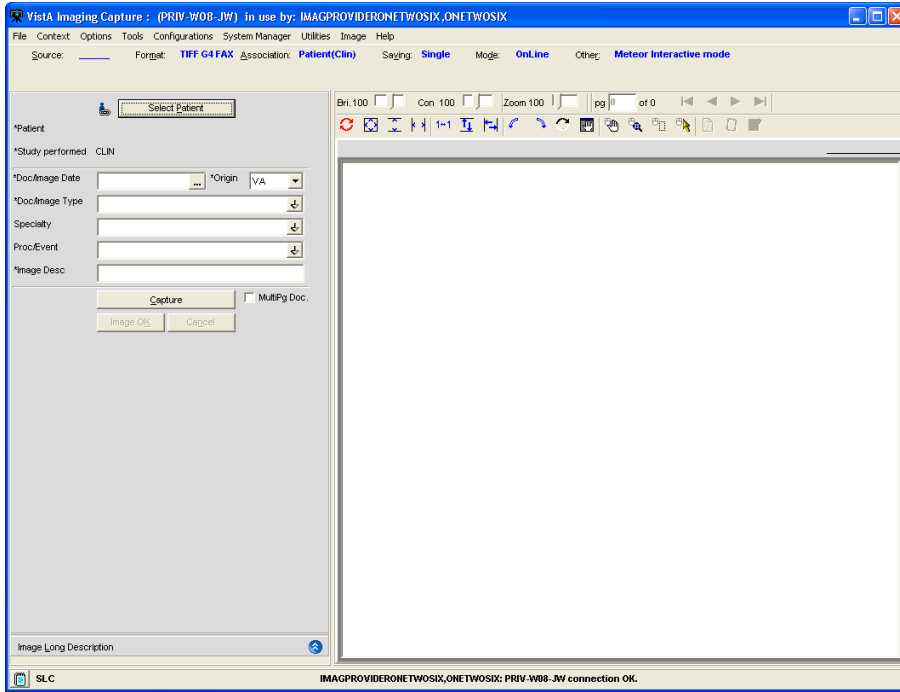
- Enter your Access and Verify codes in the VistA login window that displays.



- If the site has multiple divisions and if the account you are using to log into VistA can log into these divisions, the Select Division window displays, prompting you to select the division in which you want to log on. If you see this window, select your division and click **OK**.



The VistA Imaging Capture window appears as shown in the following screenshot.



Appendix B: 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 Capture is CCOW-compliant and uses this standard to interface with CPRS, Clinical Display, TeleReader, and other CCOW-compliant applications.

CCOW maintains user context and patient context.

- Because CCOW maintains user context, when you are using a CCOW-compliant application (such as CPRS) and you start another CCOW-compliant application (such as Clinical Capture) you will be automatically signed on to the second application will automatically sign on to VistA with the same user credentials as the first.
- Because CCOW maintains patient context when you select a patient in CPRS or Clinical Display, the same patient is also selected in Clinical Capture. You can suspend the patient context and select a different patient in Clinical Capture. When the patient context has been suspended, you can re-establish the connection with the CCOW vault (where the patient context is stored) and get that patient context. You can also set the patient context in the CCOW vault. When you set the patient context from Clinical Capture, the CCOW patient that is open in Clinical Capture becomes the CCOW patient and that patient gets displayed in CPRS and/or Clinical Display.

To learn more about CCOW follow this link:




http://vista.med.va.gov/bcma/software/gui/help/general_topics/ccow_about.htm

Patient Context in Clinical Capture

Clinical Capture enables you to show patient context, suspend patient context, get patient context, and set patient context. You perform these actions manually through the options of the **Context** menu. The following table explains these options

Menu Option	Description
Show Context	Use this option to display the current patient (CCOW patient) in the message history log of the Clinical Capture main screen.
Suspend Context	Use this option to break the connection to the patient in the CCOW vault (the CCOW patient). Suspending the context lets you select a different patient in Clinical Capture from the one in the other CCOW-compliant applications that are running (CPRS and/or Clinical Display).
Resume Get Context	Use this option to re-establish the connection to the CCOW vault and to display the patient that is in the CCOW vault in Clinical Capture.
Resume Set Context	Use this option to re-establish the connection to the CCOW vault and to change the patient in vault with the one that is selected in Clinical Capture. The patient will be displayed in the other CCOW-compliant applications that are running (CPRS and/or Clinical Display).

These icons, which appear in the Clinical Capture main screen, next to the **Select Patient** button, indicate that Clinical Capture is using CCOW and the patient status of the patient context in Clinical Capture.

	Clinical Capture is in context. The patient in Clinical Capture is the patient in the CCOW vault.
	Context is suspended. The patient in Clinical Capture is not the patient in the CCOW vault.
	Context is changing.

