

# suiteDXT

## Instructions for Use

**NeoSoft, LLC**

The logo for NeoSoft, featuring the word "NEO" in a bold, blue, sans-serif font, followed by "SOFT" in a lighter, grey, sans-serif font.

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# Revision History

Rev	Date	Description of Change	Safety Related Update (Yes/No)
1	23APR2019	Updated for the 5.0.0 product release. Previous manual NS-03-009-0001, Rev 12	No
2	22NOV2019	Updated for the 5.0.1 product release.	No
3	12AUG2020	CE Mark update.	No
4	19OCT2020	Updated for the 5.0.2 product release.	No
5	5JAN2021	Added Malaysian authorized representative.	No
6	7MAY2021	Added MD symbol, importer reference, serious incident reporting note.	No
7	24JUNE2021	Updated for the 5.0.3 product release.	No

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The Instructions for Use for this device are provided electronically in Portable Document Format, (.pdf). A pdf viewer is required to view the Instructions for Use. A paper copy of the Instructions for Use can be provided upon request, at no cost, within 7 calendar days, by emailing [service@neosoftmedical.com](mailto:service@neosoftmedical.com).

Instructions for Use may be accessed in the following ways:

1. After launching the application, click “Help” or “About” from the main screen. Select the “Instructions for Use” option. The Instructions for Use will open in a pdf viewer.
2. If the original installation package received from NeoSoft is available, open the zip file and navigate to the “Documentation” folder, then the “Instructions for Use” folder and double click on the Instructions for Use.pdf in your language, denoted by EN - English, FR - French, DE - German, EL - Greek, IT - Italian, LT - Lithuanian, ES - Spanish, SV - Swedish, TR - Turkish, RO - Romanian, NL - Dutch, ZH\_CN - Simplified Chinese, PT-PT - Portuguese, HU - Hungarian, JA - Japanese, VI - Vietnamese.
3. Navigate to the folder where the application is installed. Locate the “Documentation” folder, open the “Instructions for Use” folder and double click on the Instructions for Use.pdf in your language, denoted by EN - English, FR - French, DE - German, EL - Greek, IT - Italian, LT - Lithuanian, ES - Spanish, SV - Swedish, TR - Turkish, RO - Romanian, NL - Dutch, ZH\_CN - Simplified Chinese, PT-PT - Portuguese, HU - Hungarian, JA - Japanese, VI - Vietnamese..
4. Electronic copies of Instructions for Use are also available at [www.neosoftllc.com/neosoft/product\\_manuals/](http://www.neosoftllc.com/neosoft/product_manuals/) for at least 15 years from last date of manufacture.

# Medical device regulation

This product conforms with the requirements of Medical Device Regulation (EU) 2017/745 concerning medical devices when it bears the following CE mark of Conformity:



This product is a Medical Device:



#### European Representatives:

EMERGO EUROPE  
Prinsessegracht 20  
2514 AP The Hague  
The Netherlands

#### EU Importer:

MedEnvoy Global B.V.  
Pr. Margrietplantsoen 33, Suite 123,  
2595 AM The Hague  
The Netherlands

#### Swiss Authorized Representative and Importer:

MedEnvoy Switzerland  
Gotthardstrasse 28  
6300 Zug  
Switzerland

#### Malaysia Authorized Representative:

Emergo Malaysia Sdn. Bhd.  
Level 16, 1 Sentral Jalan Stesen Sentral 5 KL  
Sentral, 50470  
Kuala Lumpur MALAYSIA

Malaysian Medical Device Registration Number: GB10979720-50888

Canada: Health Canada device license number: 99490



**CAUTION:** *United States federal law restricts this device to sale by, or on the order of, a physician.*

Any serious incident that has occurred in relation to this device should be reported to NeoSoft and the competent authority of your Member State.

# Table of Contents

Medical device regulation i

## Safety 1

- Introduction* 1
- Intended Use* 1
- Indications for Use* 1
- Supported DICOM Image Formats* 1
- Terminology* 2
- Equipment Hazards* 2

## Getting Started 3

- Main Screen Functions* 3
- Right Mouse Click Menu in Study Pane* 4
- Right Mouse Click Menu in Series Pane* 4
- Query/Retrieve Window* 5
- Right Mouse Click Menu in Query/Results Pane* 6
- Right Mouse Click Menu in Series Pane* 6

## Using suiteDXT 7

- Launch an Application* 7
- Retrieve Study or Series from Remote Host* 8
- Create a Filter* 9
- Send Study to Remote Host* 9
- Send Series to Remote Host* 10
- Study Pane Indicators* 10
- Send NeoSoft DICOM Files* 11
- Import Studies* 11
- Export Studies* 11
- Perform a Search* 12
- Create Folders* 13
- Anonymize a Study* 14
- Delete Protection* 14
- Delete a Study* 15
- Delete a Series* 15
- Delete Secondary Capture Series* 15
- About suiteDXT* 16

## Study Preprocessing 17

- Configure Preprocessing* 17
- Using Preprocessing* 18
- Study Pane Indicators* 19

## Virtual Fellow® 20

- Turning Virtual Fellow® On/Off* 20
- Image Preview Window* 21

Service and Support	<b>22</b>
<i>DICOM Network Failure</i>	<b>22</b>
<i>Study Launch Error</i>	<b>23</b>
<i>Restart Service</i>	<b>24</b>
<i>Contact</i>	<b>24</b>

# Safety

## Introduction

To assure efficient and safe use it is essential to read this safety section and all associated topics before attempting to use the software. It is important for you to read and understand the contents of this manual before attempting to use this product. You should periodically review the procedures and safety precautions.

The software is intended for use by trained and qualified personnel only.

suiteDXT software has an expected useful service life of 7 years from its original release date.

## Intended Use

suiteDXT is intended to allow users the ability to manage DICOM network communication, storage of supported DICOM images, importing of supported DICOM images from the local file system, perform study anonymization, and launching of related imaging applications. This software is intended to be a temporary storage location.

## Indications for Use

suiteDXT is intended to allow users the ability to import, export, anonymize DICOM images, and launch related imaging applications. This product has no diagnostic medical function or purpose.

## Supported DICOM Image Formats

suiteDXT supports the following DICOM format; MR and Enhanced MR.




**NOTE:** suiteDXT supports JPEG Lossless compression, however subsets of this format are not supported.

Refer to the suiteDXT DICOM Conformance Statement manual for further detail on supported formats.

# Terminology

The terms danger, warning, and caution are used throughout this manual to point out hazards and to designate a degree or level of seriousness. Hazard is defined as a source of potential injury to a person. Familiarize yourself with the terminology descriptions listed in the following table:

Table 1: Safety Terminology

Graphic	Definition
 <b>DANGER:</b>	Danger is used to identify conditions or actions for which a specific hazard is known to exist which <u>will</u> cause severe personal injury, death, or substantial property damage if the instructions are ignored.
 <b>WARNING:</b>	Warning is used to identify conditions or actions for which a specific hazard is known to exist which <u>may</u> cause severe personal injury, death, or substantial property damage if the instructions are ignored.
 <b>CAUTION:</b>	Caution is used to identify conditions or actions for which a potential hazard is known to exist that will or <u>can</u> cause minor personal injury or property damage if the instructions are ignored.

## Equipment Hazards



**CAUTION:** Using equipment that is damaged or has been compromised can put the patient at risk by delaying diagnosis. Make sure that equipment is in proper working order.

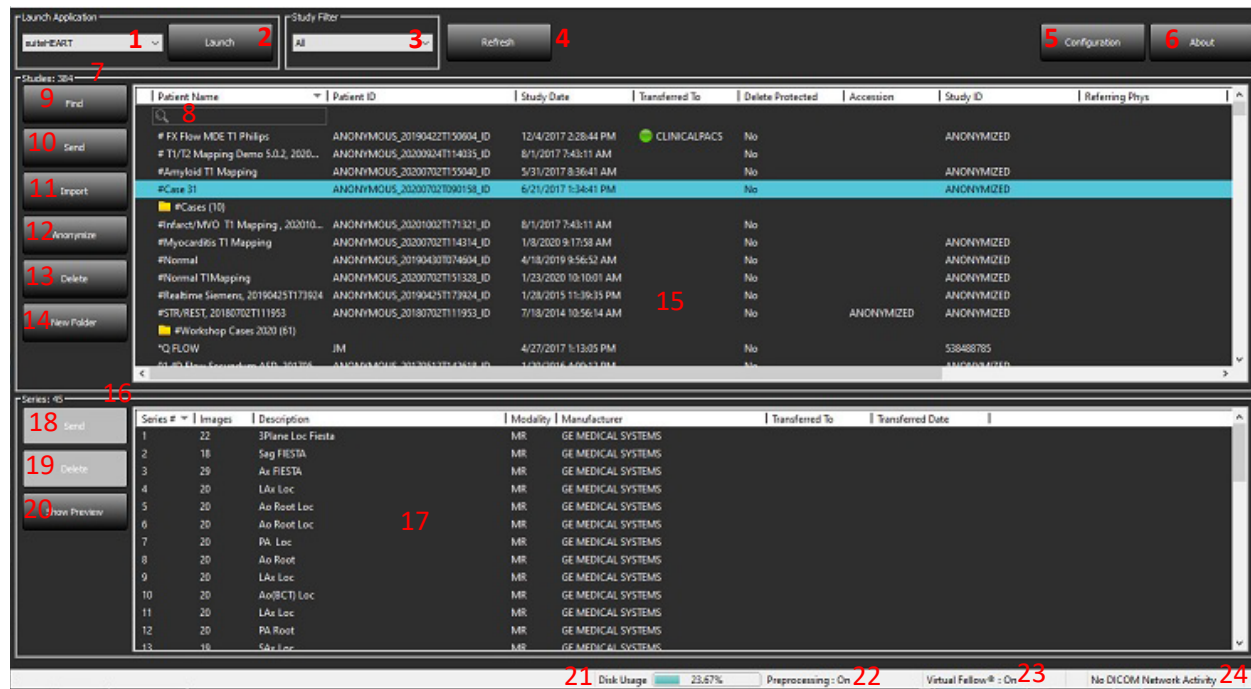


**CAUTION:** Applications run on equipment that includes one or more hard disk drives, which may hold medical data related to patients. In some countries, such equipment may be subject to regulations concerning the processing of personal data and free circulation of such data. Release of personal data may result in legal action depending on the applicable regulatory body. It is strongly recommended that access to patient files be protected. The user is responsible for understanding the laws regulating patient information.

# Getting Started

## Main Screen Functions

FIGURE 1. Main Screen



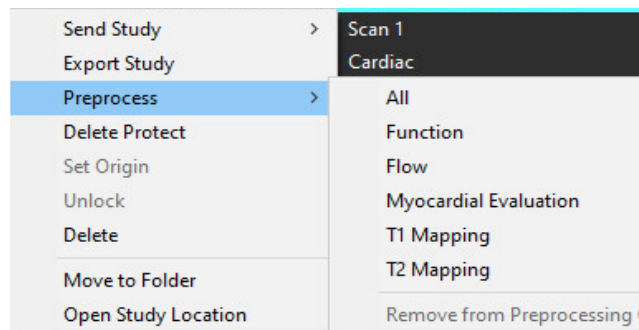
1. **Launch Application pull-down Menu** - lists configured applications.
2. **Launch** - launches configured NeoSoft, LLC applications.
3. **Study Filter** - defines the date range for which studies are displayed in the study list.
4. **Refresh** - updates the view based on the user selected criteria.
5. **Configuration** - opens Configuration Window.
6. **About** - displays suiteDXT software version/links to Instructions for Use, DICOM Conformance Statement and Archive Log Files for support.
7. **Studies Headline** - displays number of studies stored on local host.
8. **Search Field** - automatically search under any column, with or without being sorted.
9. **Find** - opens Query/Retrieve Window.
10. **Send** - pushes local study to remote host.
11. **Import** - allows study information to be imported from the file system, CD, DVD or USB media.
12. **Anonymize** - creates a new study with patient specific data removed.
13. **Delete** - removes study from suiteDXT study list and deletes DICOM data from local host.
14. **New Folder** - creates a folder to organize studies.
15. **Study Pane** - shows study information for studies stored on local host.
  - Column titles can be reordered by clicking and dragging the title of the column and sorted by clicking the column title.



16. **Series Headline** - displays number of series in a selected study.
17. **Series Pane** - shows series information for selected study.
  - Column titles can be reordered by clicking and dragging the title of the column and sorted by clicking the column title.
18. **Send** - pushes local series to remote host.
19. **Delete** - removes a series from the selected study and deletes DICOM data.
20. **Show Preview** - previews suiteHEART Virtual Fellow®, CAS cine, and CAS report series.
21. **Disk Usage Indicator** - shows percentage of total local disk space used for the image data.
22. **Preprocessing Status** - indicates the current configuration status of preprocessing (On/Off).
23. **Virtual Fellow® Status Indicator** - indicates the current configuration status of Virtual Fellow® (On/Off).
24. **Network Status** - shows if suiteDXT is currently transferring DICOM data over the network.

## Right Mouse Click Menu in Study Pane

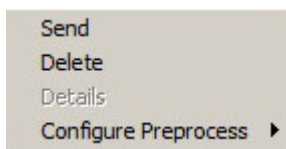
FIGURE 2. Right Mouse Click Menu



- **Send Study** - pushes study from local host to remote host. Can be configured to only send NeoSoft DICOM series. (See Installation manual)
- **Export Study** - saves the study data, for a selected group of studies, in a compressed .zip file.
- **Preprocess** - preprocesses all configured series or only Function, Flow, Myocardial Evaluation, T1 Mapping and T2 Mapping; to remove the study from the queue, select "Remove from Preprocessing Queue."
- **Delete Protect** - set Delete Protect for a study (Yes/No)
- **Set Origin** - used by your network administrator to set the AE title for access control.
- **Unlock** - reset the lock and open a locked study after a system crash.
- **Delete** - removes study from suiteDXT study list and deletes DICOM data from local host.
- **Move to Folder** - move study to a created folder.
- **Open Study Location** - shows location of DICOM data on the local file system.

**NOTE:** Preprocess is not applicable to the NeoSoft CAKE™ application.

## Right Mouse Click Menu in Series Pane



- **Send** - pushes local series to remote host.
- **Delete** - removes a series from the selected study and deletes DICOM data.
- **Details** - opens the series details window.
- **Configure Preprocess** - auto fills the series name for a Function, Flow, Myocardial Evaluation, T1 Mapping and T2 Mapping series.

**NOTE:** Configure Preprocess is not applicable to the NeoSoft CAKE™ application.

# Query/Retrieve Window

FIGURE 3. Query/Retrieve Window

The screenshot shows the Query/Retrieve Window interface. At the top is the 'Query Filter' section (1) with input fields for Patient Last Name (sh), Patient First Name, Patient ID, Study ID, Accession Number, Modality (MR), and Date (All). Buttons for 'Query' (2), 'Query Source' (3, set to CLINICALPACS), and 'Save Filter' (4) are on the right. Below is the 'Query Results' section (5) showing '49 Matches Found.' and a table of study results (6). The table has columns: Patient Name, Patient ID, Study Description, Accession, Study Date, Study ID, and Mod. Buttons for 'Retrieve' (7), 'Retrieve and Preprocess' (8), and 'Clear Query Results' (9) are on the left. Below the study results is the 'Series' section (10) showing 'Series: 28' and a table of series information (11). The table has columns: Series #, Images, Description, Modality, and Manufacturer. Buttons for 'Retrieve' (11) and '10' are on the left. At the bottom is the 'Retrieve Results' section (12) showing a table of retrieve actions (13) with columns: Patient Name, Patient ID, Accession, Status, Progress, and Details. Buttons for 'Cancel' (13) and 'Clear Retrieve Results' (14) are on the left.

Patient Name	Patient ID	Study Description	Accession	Study Date	Study ID	Mod
SH Case 05	AW2066758685.410....	No Value Returned	No Value Retur...	7/29/2014 10:17:37 AM	MR20140006403	MR
SH Case 01	AW1160355509.192....	No Value Returned	No Value Retur...	4/29/2014 12:18:01 PM	7436	MR
SH Case 02	AW1696004290.551....	No Value Returned	No Value Retur...	1/7/2011 8:40:42 AM	17610	MR
SH Case 03	AW1523419194.749....	No Value Returned	No Value Retur...	5/20/2013 10:25:55 AM	2870	MR
SH Case 04	AW1148450914.118....	No Value Returned	No Value Retur...	12/16/2013 10:28:28 AM	MCARD	MR

Series #	Images	Description	Modality	Manufacturer
1	No Value...	3-pl Loc Fiesta	MR	GE MEDICAL SYSTEMS
2	No Value...	calibration ASSET	MR	GE MEDICAL SYSTEMS
3	No Value...	Ax Loc	MR	GE MEDICAL SYSTEMS
4	No Value...	LAX Loc	MR	GE MEDICAL SYSTEMS
5	No Value...	Ap Loc	MR	GE MEDICAL SYSTEMS
6	No Value...	PA Root	MR	GE MEDICAL SYSTEMS

Patient Name	Patient ID	Accession	Status	Progress	Details
SH Case 02	AW1696004290.551....		Complete	<div></div>	1107 Total, 1107 Succe

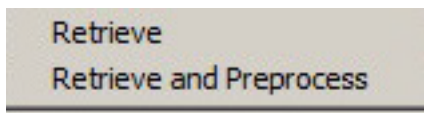
- Query Filter** - can be used to search for specific studies by Patient First and Last Name, Patient ID, Study ID, Accession Number, and Date. The \* (asterisk) may be used as a wild card in any field (except date).
- Query** - executes query of remote device. If all fields are left blank, query will return all results.
- Query Source Pull-down Menu** - displays configured remote devices available to query / retrieve.
- Save Filter** - sets the default query parameters.
- Query Results** - shows count of studies that match query criteria.
- Query Results Pane** - shows study information of queried remote device.
  - Column titles can be reordered by clicking and dragging the title of the column and sorted by clicking the column title.
- Retrieve** - executes retrieval of the selected study from remote device.
- Retrieve and Preprocess** - executes retrieval and preprocessing of the selected study from the remote device.
- Clear Query Results** - clears query results in study pane.
- Series Pane** - shows series information of highlighted study in study pane.
  - Column titles can be reordered by clicking and dragging the title of the column and sorted by clicking the column title.
- Retrieve** - executes retrieval of the selected series from remote device.
- Transfer Status Pane** - shows current and completed retrieve actions.
  - Column titles can be reordered by clicking and dragging the title of the column.
- Cancel** - stops the transfer activity.
- Clear Retrieve Results** - clears transfer activity in the transfer pane for studies whose transfers have been completed.



CAUTION: Images that have transferred will remain local and show in the suiteDXT Main Screen, even though not all images for the study may have transferred.

## Right Mouse Click Menu in Query/Results Pane

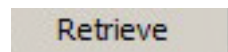
FIGURE 4. Right Mouse Click Menu



- **Retrieve** - executes retrieval of a study from a remote host.
- **Retrieve and Preprocess** - executes retrieval and preprocessing of the selected study from the remote host.

## Right Mouse Click Menu in Series Pane

FIGURE 5. Right Mouse Click Menu



- **Retrieve** - executes retrieval of series from a remote host.

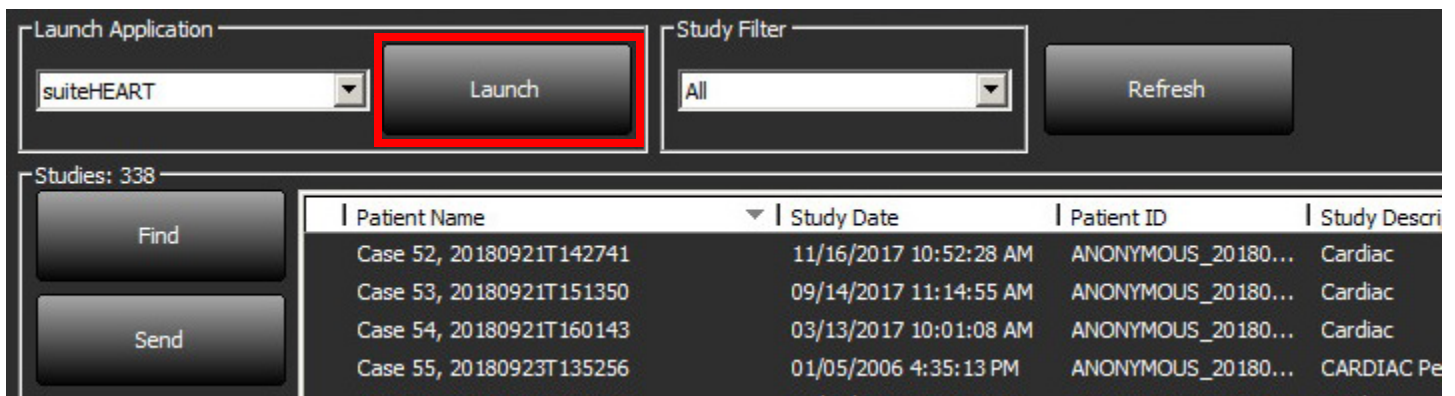
# Using suiteDXT

## Launch an Application

Applications can be added by following instructions in the Installation Manual.

1. Go to the Main Screen.
2. From the Launch Application drop-down menu, select the desired application.

**FIGURE 1. Launch Application**



3. Select a study from the study list and do one of the following:
  - Select Launch.
  - Double click the study.

# Retrieve Study or Series from Remote Host

Remote hosts must already be configured to be accessible. For information on how to configure a remote host see the Installation Manual.

1. Select Find on the Main Screen.

**FIGURE 2. Find on Main Screen**

The screenshot shows the Main Screen interface. At the top, there is a 'Launch Application' section with a dropdown menu set to 'suiteHEART' and a 'Launch' button. To the right is a 'Study Filter' section with a dropdown menu set to 'All' and a 'Refresh' button. Below these sections is a table of studies. The 'Find' button is highlighted with a red box. The table has columns for Patient Name, Study Date, Patient ID, and Study Description.

Patient Name	Study Date	Patient ID	Study Description
Case 52, 20180921T142741	11/16/2017 10:52:28 AM	ANONYMOUS_20180...	Cardiac
Case 53, 20180921T151350	09/14/2017 11:14:55 AM	ANONYMOUS_20180...	Cardiac
Case 54, 20180921T160143	03/13/2017 10:01:08 AM	ANONYMOUS_20180...	Cardiac
Case 55, 20180923T135256	01/05/2006 4:35:13 PM	ANONYMOUS_20180...	CARDIAC Pericardium
Case 56, 20180923T160407	07/20/2015 1:29:12 PM	ANONYMOUS_20180...	Cardiac
Case 57, 20181106T135738	10/26/2018 10:29:40 AM	ANONYMOUS_20181...	Cardiac

2. In the Query/Retrieve Window enter any study information criteria in the Query Filter area.

Filter options include:

- Patient Last Name
- Patient First Name
- Patient ID
- Study ID
- Accession Number
- Date Range

**FIGURE 3. Query/Retrieve Window**

The screenshot shows the Query/Retrieve Window. At the top is the 'Query Filter' section with fields for Patient Last Name (sh), Patient First Name, Patient ID, Study ID, Accession Number, Modality (MR), and Date (All). There are 'Query' and 'Save Filter' buttons. Below this is the 'Query Results: 49 Matches Found.' section. It contains a table of results with columns for Patient Name, Patient ID, Study Description, Accession, Study Date, Study ID, and Modality. The first row is highlighted. Below the table is a 'Series: 28' section with a table of series information with columns for Series #, Images, Description, Modality, and Manufacturer. The first row is highlighted. At the bottom is the 'Retrieve Results' section with a table of results with columns for Patient Name, Patient ID, Accession, Status, Progress, and Details. The first row is highlighted.

Patient Name	Patient ID	Study Description	Accession	Study Date	Study ID	Mod
SH Case 05	AW2066758685.410...	No Value Returned	No Value Returned	7/29/2014 10:17:37 AM	MR20140006403	MR
SH Case 01	AW1160355509.192...	No Value Returned	No Value Returned	4/29/2014 12:18:01 PM	7436	MR
SH Case 02	AW1696004290.551...	No Value Returned	No Value Returned	1/7/2011 8:40:42 AM	17610	MR
SH Case 03	AW1523419194.749...	No Value Returned	No Value Returned	5/20/2013 10:25:55 AM	2870	MR
SH Case 04	AW1148450914.118...	No Value Returned	No Value Returned	12/16/2013 10:28:28 AM	IMCARD	MR

Series #	Images	Description	Modality	Manufacturer
1	No Value...	3-pl Loc Fiesta	MR	GE MEDICAL SYSTEMS
2	No Value...	calibration ASSET	MR	GE MEDICAL SYSTEMS
3	No Value...	Ax Loc	MR	GE MEDICAL SYSTEMS
4	No Value...	LX Loc	MR	GE MEDICAL SYSTEMS
5	No Value...	Ao Loc	MR	GE MEDICAL SYSTEMS
6	No Value...	PA Root	MR	GE MEDICAL SYSTEMS

Patient Name	Patient ID	Accession	Status	Progress	Details
SH Case 02	AW1696004290.551...		Complete		1107 Total, 1107 Succ

3. From the Query Source pull-down menu select the remote host.
4. Select Query.

Studies matching the criteria you entered will populate the study list.

Clicking on a study will populate the series information list.

5. Select the desired study.
6. Select Retrieve below the study list or right mouse click and select Retrieve from the pop-up menu.
7. Perform preprocessing by selecting the Retrieve and Preprocess.
8. To retrieve by series, select the series and click the Retrieve below the series list.

Progress of the retrieval is shown in the Retrieve Results section at the bottom of the window. While at the bottom of the Main Screen, the status “No DICOM Network Activity” is changed to “DICOM Network Active.”

**NOTE:** In the event that the study does not transfer in its entirety, the progress indicator will turn red.

## Create a Filter

A filter can be created and saved to use the same search parameters each time, for example the date range. Input the criteria to be used, more than one parameter can be filled in, and select Save Filter. All future queries will use the saved filter. Whenever a new filter is created, it overwrites the previous filter.

## Send Study to Remote Host

Remote hosts must already be configured to be accessible. For information on how to configure a remote host see the Installation Manual.

**NOTE:** suiteDXT supports JPEG Lossless compression, however subsets of this format are not supported.

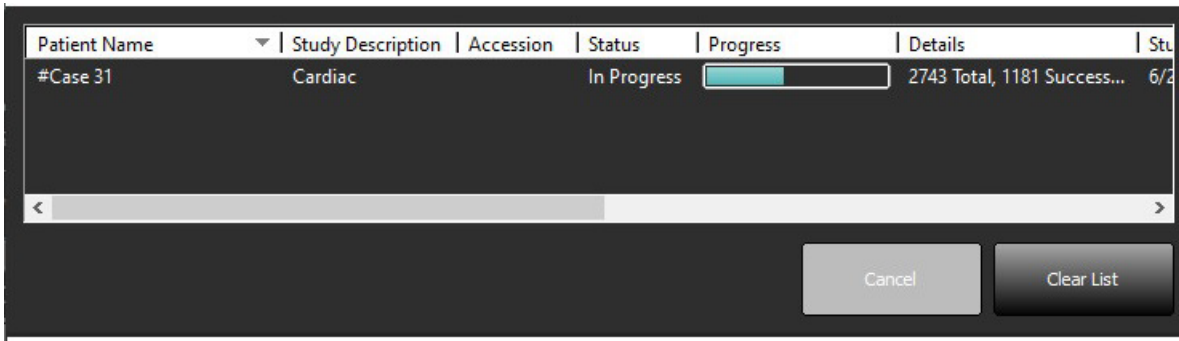
1. Highlight the study to send.
2. Select Send or right mouse click and choose Send Study from the pop-up menu.
3. Select the destination to which to send.
4. Select Send on the pop-up window.

The DICOM Send window will display showing progress of the transfer. This window can be closed, using the X in the upper right corner, while the transfer runs in the background.

To check the progress once the DICOM Send window is closed, select Send, then select Status.



**FIGURE 4. DICOM Send Window**



- Studies that have been transferred successfully will show the Remote Host in the Transferred To column on the main study listing.

**FIGURE 5. Transferred To**

Find	Patient Name	Patient ID	Study Date	Transferred To	Delete Protected	Accession	Study ID	Referring Phys
	# FX Flow MDE T1 Philips	ANONYMOUS_20190422T150604_ID	12/4/2017 2:28:44 PM	CLINICALPACS	No		ANONYMIZED	
	# T1/T2 Mapping Demo 5.0.2, 2020...	ANONYMOUS_20200924T114035_ID	8/1/2017 7:43:11 AM		No			
	# Amyloid T1 Mapping	ANONYMOUS_20200702T155040_ID	5/31/2017 8:36:41 AM		No		ANONYMIZED	

## Send Series to Remote Host

- Highlight the study.
- Highlight the required series.
- Select Send or right mouse click and choose Send from the pop-up menu.
- Select the destination to which to send.
- Select Send on the pop-up window.
- Series that have been transferred successfully will show the Remote Host in the Transferred To column in the series pane.

**FIGURE 6. Transfer Series Pane**

Series #	Images	Description	Modality	Manufacturer	Transferred To	Transferred Date
101	50	Survey	MR	Philips Healthcare	CLINICALPACS	10/8/2020 12:52:32 PM
201	30	SSFP_AX	MR	Philips Healthcare	CLINICALPACS	10/8/2020 12:52:32 PM
301	30	BB_SSh_BH	MR	Philips Healthcare	CLINICALPACS	10/8/2020 12:52:32 PM
401	30	SSFP_AX	MR	Philips Healthcare	CLINICALPACS	10/8/2020 12:52:32 PM

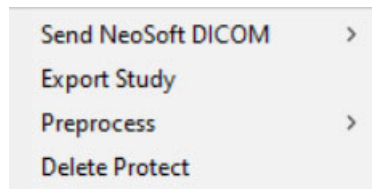
## Study Pane Indicators

Indicator	Status
Light blue circle	Incomplete transfer of images or images have been transferred to multiple remote hosts.
Green circle	All images in the study have been transferred to a single remote host.

## Send NeoSoft DICOM Files

Files that are created by the software can be networked separately. Refer to the Installation Manual for configuration.

1. Highlight the study.
2. Right mouse click and select Send NeoSoft DICOM.
3. Select the DICOM destination.



## Import Studies

Studies containing DICOM data can be imported from the local file system, mapped drives, CD, DVD and USB; including the importing of zipped folders. After inserting one of these media containing the desired DICOM data, follow the steps below.

**NOTE:** suiteDXT supports JPEG Lossless compression, however subsets of this format are not supported.

1. On the Main Screen, select Import.
2. Navigate to the location containing the DICOM data.
3. Select OK.

The Import File Progress window displays the DICOM file import status. The Import Summary displays the total number of files found, files imported, study count, and study imported information.

The newly imported study(s) are added to the study list of suiteDXT's Main Screen.

Example data provided can be imported into suiteDXT.

**NOTE:** If the study does not import completely, click the Retry on the Import Summary screen.

## Export Studies

Studies that have been analyzed can be exported from the main study directory as a .zip file.

1. Highlight the study or select a group of studies using Ctrl +Shift.
2. Right mouse click and select Export.
3. Customize the file name by clicking Configuration > Local Storage tab.
4. Select the desired file attributes as shown in Figure 7.




**FIGURE 7. Export Filename Pattern**

## Perform a Search

Each column can be automatically searched with or without being sorted. The search is not case sensitive and will automatically bring results to the top of the list.

Patient Name	Patient ID	Study Date	Transferred To	Delete Protected	Accession	Study ID	Referring Phys
Case							
SH Case 02	AW1696004290.551.1411990037	1/7/2011 8:40:42 AM		No		17610	
SH Case 03	AW1523419194.749.1411990120	5/20/2013 10:25:55 AM		No		2870	

- After obtaining the first result, pressing the ENTER key on the keyboard or the arrow in the search field will advance to the next result.
- Simultaneously pressing ENTER and the SHIFT key on the keyboard will select the previous result.
- Pressing the ENTER key, with or without the SHIFT key, on the keyboard when the end of the results are reached will return you to the start of the search results.
- The search field will be cleared after pressing .

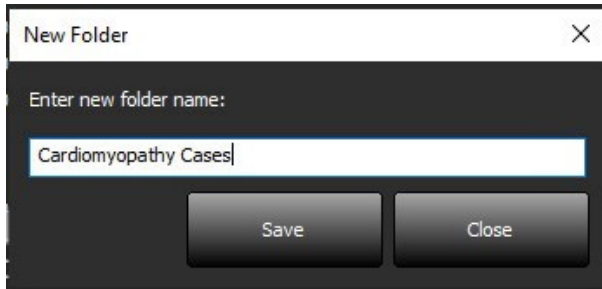
**NOTE:** For the search to include folders in the study listing the folders must be expanded. Right mouse click on the folder and select Expand All.

## Create Folders

Folders can be created to organize studies at the study listing level.

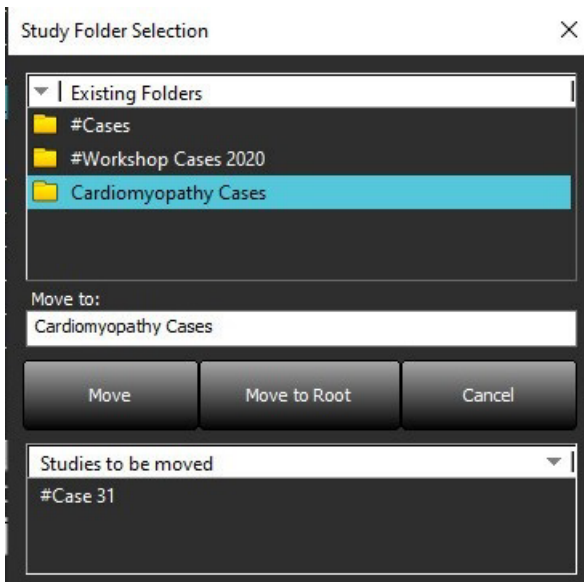
1. Click New Folder.
2. Type in a folder name and click Save.

The folder will now be in the study listing.



3. Move a study to the folder by right mouse clicking on the study and selecting Move to Folder.
4. When the Folder dialog box opens, select the correct folder into which to move the study.

**FIGURE 8. Folder Selections**



1. Move the study back to the main directory by clicking on the study and selecting Move to Folder.
2. Click Move to Root.

## Anonymize a Study



CAUTION: Anonymizing a study does not remove patient data from the images that were created from other post-processing software.



CAUTION: The anonymized study should only be used with NeoSoft, LLC applications.

1. On the Main Screen, select the study to anonymize.
2. Select Anonymize.
3. Fill in the anonymization fields shown in Figure 9.
4. To not include the NeoSoft secondary capture series, deselect the option.
5. Click Anonymize.

**FIGURE 9. Anonymize Study**

Anonymize Study

Anonymized Patient Name: ☐ Append Date/Time

Anonymized Patient ID:

Anonymized Institution:

☒ Anonymized Study Date: 6/1/2021

☒ Include NeoSoft Secondary Capture Series

Anonymize

A progress indicator will display. The newly anonymized study will appear in the study list.

6. Click “OK” on the Anonymize Study pop-up.

**NOTE:** The anonymize function is available for NeoSoft support purposes.

## Delete Protection

To set delete protection for a study, right mouse click on the study and select Delete Protect. The indicator column will display “Yes” for studies that are protected and “No” for those that are not, as shown in Figure 10. To turn off delete protection right mouse click and select Remove Delete Protection.

**FIGURE 10. Delete Protect Column Indicator**

Patient Name	Patient ID	Study Date	Transferred To	Delete Protected	Accession	Study ID	Referring Phys
# FX Flow MDE T1 Philips	ANONYMOUS_20190422T150604_ID	12/4/2017 2:28:44 PM	CLINICALPACS	Yes		ANONYMIZED	
# T1/T2 Mapping Demo 5.0.2, 2020...	ANONYMOUS_20200924T114035_ID	8/1/2017 7:43:11 AM		Yes			
#Amyloid T1 Mapping	ANONYMOUS_20200702T155040_ID	5/31/2017 8:36:41 AM		No		ANONYMIZED	
#Case 31	ANONYMOUS_20200702T090158_ID	6/21/2017 1:34:41 PM	CLINICALPACS	No		ANONYMIZED	

## Delete a Study



**CAUTION:** Deleting data from the file system, including files for the current open study, could cause loss of analysis/image data.

From the Main Screen, select the study to be deleted and select Delete or right mouse click and select Delete from the pop-up menu. Using “Shift-Click” or “Ctrl-Click” selects multiple studies for deletion from the list.

## Delete a Series

From the Main Screen, select the study then the series and select Delete. Using “Shift-Click” or “Ctrl-Click” selects multiple series from the list.

**NOTE:** It is recommended to perform any series deletion prior to starting any analysis.

## Delete Secondary Capture Series

Secondary capture series identified as NeoSoft, LLC as the manufacturer can be deleted.



**CAUTION:** The deletion of the suiteHEART data series will remove all analysis results.

1. Select the study and locate the suiteHEART DATA series.
2. Click on the series number or + icon to open the Series Details window.

**FIGURE 11. Series Select**

Send	Series # ▾	Images	Description	Modality	Manufacturer	Transferred To	Transferred Date
	38	3	PS:2D PSMDE	MR	GE MEDICAL SYSTEMS	CLINICALPACS	10/12/2020 5:10:16 PM
	39	104	14 Cal Body	MR	GE MEDICAL SYSTEMS	CLINICALPACS	10/12/2020 5:10:16 PM
Delete	40	60	15 Ao(BCT) PC	MR	GE MEDICAL SYSTEMS	CLINICALPACS	10/12/2020 5:10:16 PM
	41	60	16 PA PC	MR	GE MEDICAL SYSTEMS	CLINICALPACS	10/12/2020 5:10:16 PM
	42	60	17 Ao PC	MR	GE MEDICAL SYSTEMS	CLINICALPACS	10/12/2020 5:10:16 PM
Show Preview	+ 3814	2	suiteHEART DATA	MR	NeoSoft LLC		
	3817	1	MAG:Ssh PS MDE SPGR 2RR BH Normal HR	MR	NeoSoft LLC		
	3818	1	PS:Ssh PS MDE SPGR 2RR BH Normal HR	MR	NeoSoft LLC		

3. Select the appropriate row, click Delete. To close, click on the X (upper right hand corner of the window) or click **Close**.

**FIGURE 12. Series Details**

Series Details

Description:[suiteHEART DATA] Number:[3814] Modality:[MR] Manufacturer:[NeoSoft LLC]

SOP Instance UID	Date	Number ▾
1.2.826.0.1.3680043.9.1400.5.1602616619.124	10/13/2020 2:16:59 PM	1
1.2.826.0.1.3680043.9.1400.2.1602616693.514	10/13/2020 2:18:13 PM	2

Delete

Close

## About suiteDXT

Selecting About on the Main Screen will display the software version of suiteDXT

Click the “Instructions for Use” link to launch the Instructions for Use (IFU).

Click the “DICOM Conformance Statement” link to launch the DICOM Conformance Statement document.

**NOTE:** A PDF reader is required to open the documents.

**NOTE:** Click “Archive log files for Support” to create a file to be used for troubleshooting by Service.

**FIGURE 13. About Screen**



# Study Preprocessing

**NOTE:** This section is not applicable to the NeoSoft CAKE™ application.

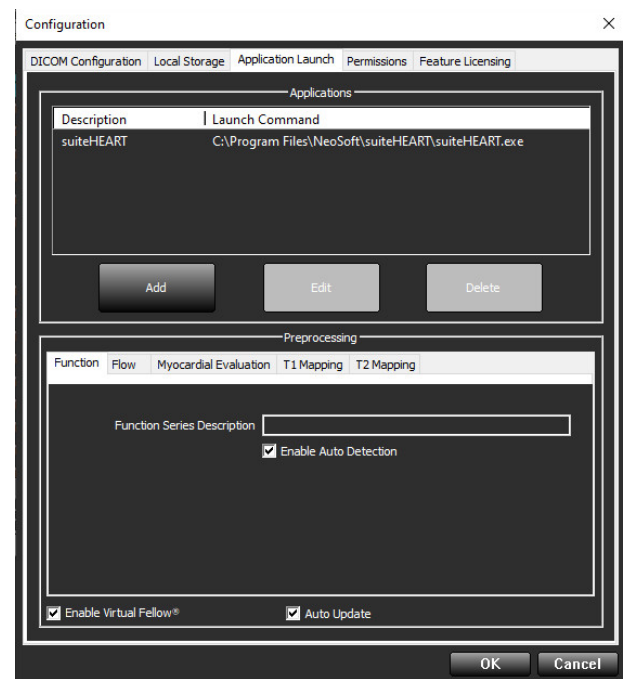
The Study Preprocessing feature is only available with the suiteHEART® Software application. This feature allows for the preprocessing of Function, Flow, Myocardial Evaluation, T1 Mapping and T2 Mapping. Preprocessing can be used in conjunction with the Virtual Fellow® feature.

**NOTE:** suiteDXT must be open and running for preprocessing to complete.

**NOTE:** Preprocessing will be disabled if the hardware does not meet the minimum system requirements.

## Configure Preprocessing

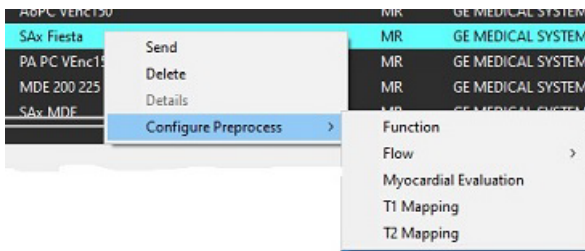
1. On the Main Screen, select Configuration.
2. Select the Application Launch tab.
3. Check "Enable Auto Detection" for each application type.  
**NOTE:** Auto Detection can be disabled by defining the series name. Refer to Defining Series Descriptions below.
4. For T1 and T2 Mapping, select the series type of Time Series or Map.
5. Check "Enable Virtual Fellow®" to perform image optimization.
6. Check "Auto Update" to enable study launching with processing being performed in the background.
7. Click OK.



## Defining Series Descriptions

1. On the Main Screen, select a study from the study pane.
2. Select a series from the series pane.
3. Perform a right mouse click on the series name and select the appropriate analysis type for that series.

The series name will be automatically entered in the Application Launch tab.



4. Repeat for all other series types.

# Using Preprocessing

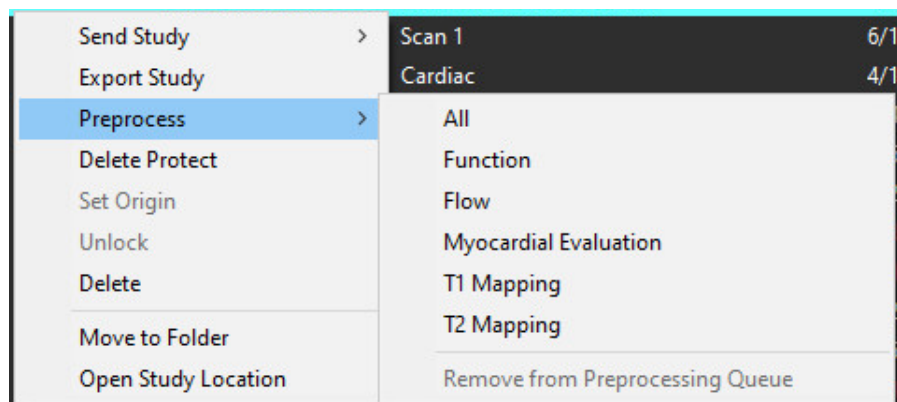
Preprocessing can be performed for cardiac MRI studies that are being sent/pushed directly to suiteDXT from another DICOM node.

**NOTE:** When Auto Update is activated, studies can be launched while processing takes place in the background.

Preprocessing can be initiated as follows:

## Study Pane

1. Select a patient from the study pane.
2. Right mouse click and choose Preprocess from the menu.

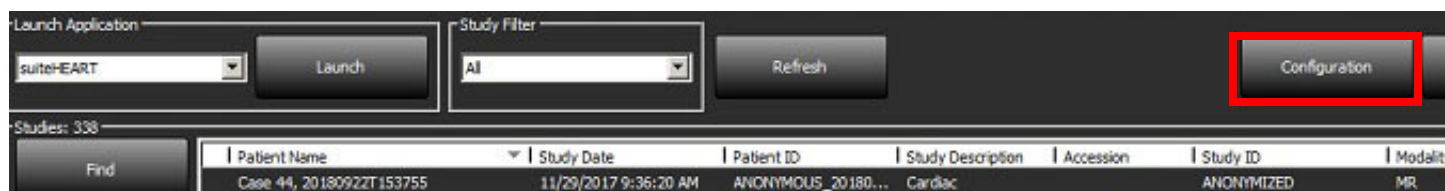


## Query/Retrieve Window

Refer to the Query/Retrieve sections in “Getting Started” and “Using suiteDXT”.

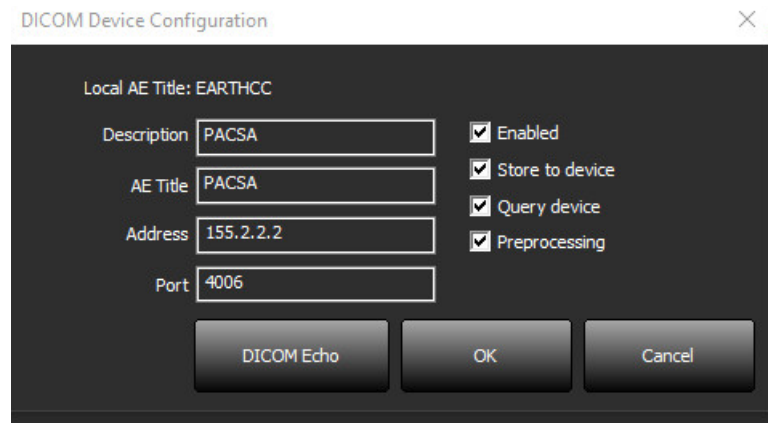
## DICOM Node Send to suiteDXT

1. On the Main Screen, select Configuration.





2. Select DICOM configuration.
3. Select the DICOM node and click Edit.
4. Select Preprocessing.
5. Click OK.



DICOM Device Configuration

Local AE Title: EARTHCC

Description: PACSA

AE Title: PACSA

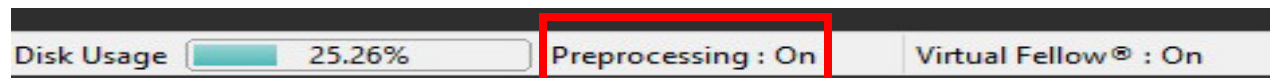
Address: 155.2.2.2

Port: 4006

☒ Enabled  
☒ Store to device  
☒ Query device  
☒ Preprocessing

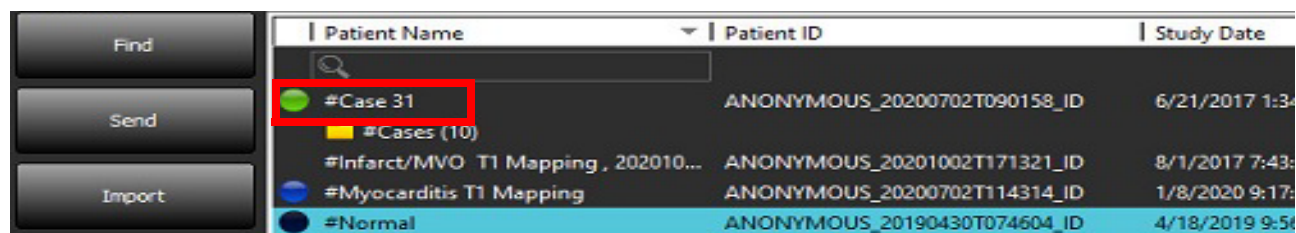
DICOM Echo    OK    Cancel

When “Preprocessing” is checked and preprocessing is configured then a “Preprocessing: ON” indicator will be displayed in the status panel.



## Study Pane Indicators

Indicator	Status
Light blue circle	Study is being preprocessed.
Dark blue circle	Study in queue.
Green circle	Preprocessing complete. Indicator will remain until the study has been opened or suiteDXT has been restarted.
Red circle	Preprocessing failed, contact NeoSoft by emailing <a href="mailto:service@neosoftmedical.com">service@neosoftmedical.com</a>



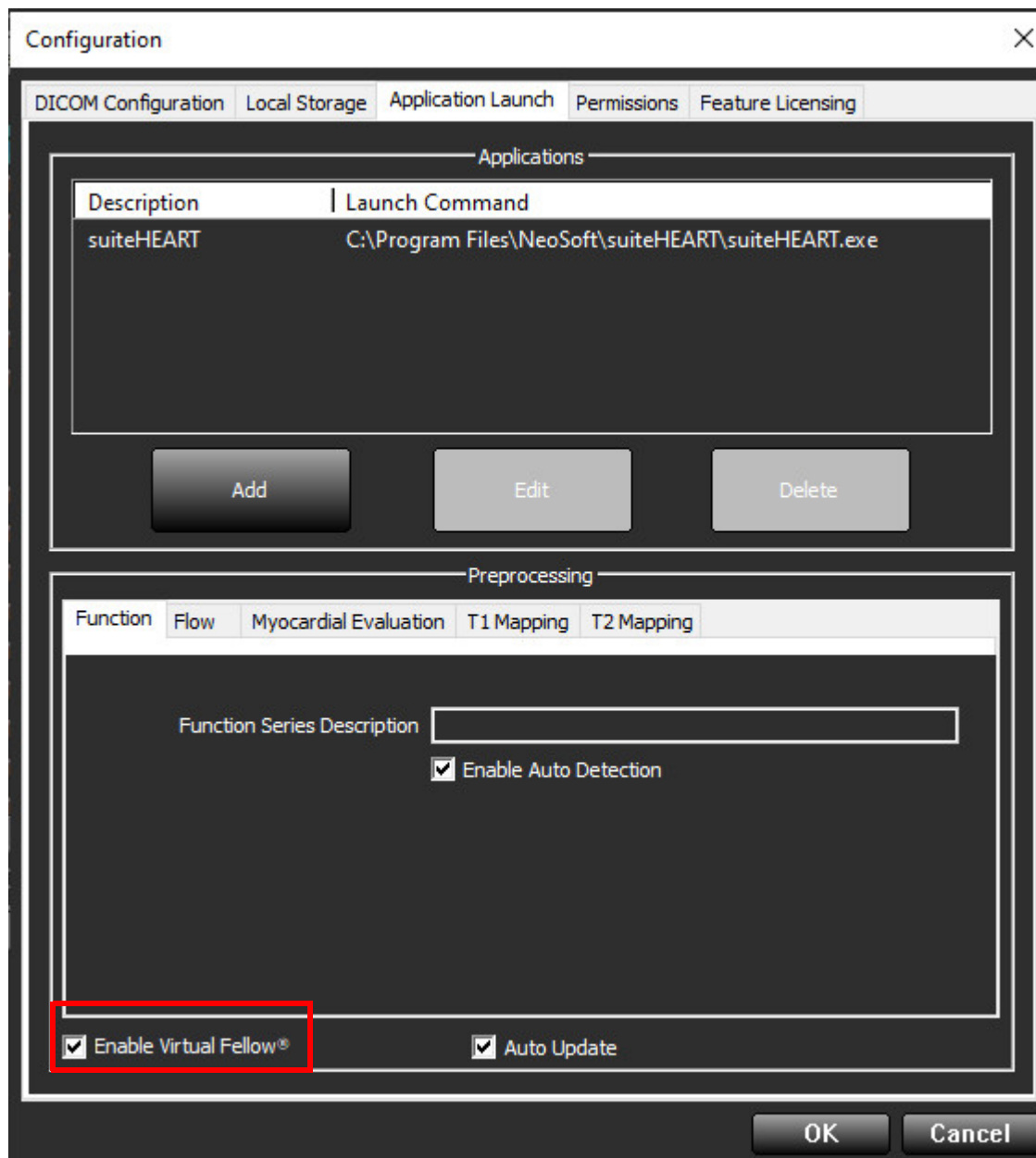
Find	Patient Name	Patient ID	Study Date
Send	#Case 31	ANONYMOUS_20200702T090158_ID	6/21/2017 1:34
Import	#Cases (10)		
	#Infarct/MVO T1 Mapping, 202010...	ANONYMOUS_20201002T171321_ID	8/1/2017 7:43
	#Myocarditis T1 Mapping	ANONYMOUS_20200702T114314_ID	1/8/2020 9:17
	#Normal	ANONYMOUS_20190430T074604_ID	4/18/2019 9:50



## Turning Virtual Fellow® On/Off

From the suiteDXT main screen click configuration to select “Application Launch” tab. Check “Enable Virtual Fellow®” to perform image optimization.

FIGURE 1. suiteDXT Configuration Screen



# Image Preview Window



WARNING: Images are not suitable for diagnosis and/or treatment.

From the suiteDXT main screen, toggle the preview window to show or hide.

**NOTE:** If the study selected contains, suiteHEART Virtual Fellow®, CAS Cine, and/or CAS Report series, these series will automatically display in the preview window, as shown in Figure 2.

FIGURE 2.

Launch Application  
suiteHEART Launch

Study Filter  
All Refresh

Studies: 386

Find Send Import Anonymize Delete New Folder

	Patient Name	Patient ID	Study Date	Transferred To
#Case 31		ANONYMOUS_20200702T090158_ID	6/21/2017 1:34:41 PM	CLINICALPACS
#Cases (10)				
#Infarct/MVO T1 Mapping, 202010...		ANONYMOUS_20201002T171321_ID	8/1/2017 7:43:11 AM	
#Myocarditis T1 Mapping		ANONYMOUS_20200702T14314_ID	1/8/2020 9:17:58 AM	
#Normal		ANONYMOUS_20190430T074604_ID	4/18/2019 9:56:52 AM	
#Normal T1 Mapping		ANONYMOUS_20200702T151328_ID	1/23/2020 10:10:01 AM	
#Realtime Siemens, 20190425T173924		ANONYMOUS_20190425T173924_ID	1/28/2015 11:39:35 PM	
#STR/REST, 20180702T111953		ANONYMOUS_20180702T111953_ID	7/18/2014 10:56:14 AM	
#Workshop Cases 2020 (61)				
*Q FLOW	JIM		4/27/2017 1:13:05 PM	
01 4D Flow Secundum ASD, 201705...		ANONYMOUS_20170512T142618_ID	1/20/2016 4:00:12 PM	
01 ALL MODES, 20171113T162436		ANONYMOUS_20171113T162436_ID	9/14/2017 11:14:55 AM	
01 AS 0.9, 20170131T090646		ANONYMOUS_20170131T090646_ID	4/29/2014 12:18:01 PM	
01 DESIQ MVO Flow, 20151120T...		ANONYMOUS_20151120T052322_ID	12/15/2012 10:28:28 AM	

Series: 49

Send Delete Hide Preview

Series #	Images	Description	Modality	Manufacturer
38	3	PS2D PSMDE	MR	GE MEDICAL SYSTEMS
39	104	14 Cal Body	MR	GE MEDICAL SYSTEMS
40	60	15 Ao(BCT) PC	MR	GE MEDICAL SYSTEMS
41	60	16 PA PC	MR	GE MEDICAL SYSTEMS
42	60	17 Ao PC	MR	GE MEDICAL SYSTEMS
3400	120	FAT: +C Ax LAWA	MR	GE MEDICAL SYSTEMS
3700	16	MAG:SSH PS MDE SPGR 2RR BH Normal HR	MR	GE MEDICAL SYSTEMS
3800	3	MAG:2D PSMDE	MR	GE MEDICAL SYSTEMS
3813	1	PS:SSH PS MDE SPGR 2RR BH Normal HR	MR	NeoSoft LLC
3814	1	MAG:SSH PS MDE SPGR 2RR BH Normal HR	MR	NeoSoft LLC
3815	20	SAX Fiesta	MR	NeoSoft LLC
3816	1	suiteHEART DATA	MR	NeoSoft LLC

DISCLAIMER: Images are not suitable for diagnosis and/or treatment.

Preview Window

Cine Controls

Disk Usage 25.31% Preprocessing: On Virtual Fellow®: On No DICOM Network Activity

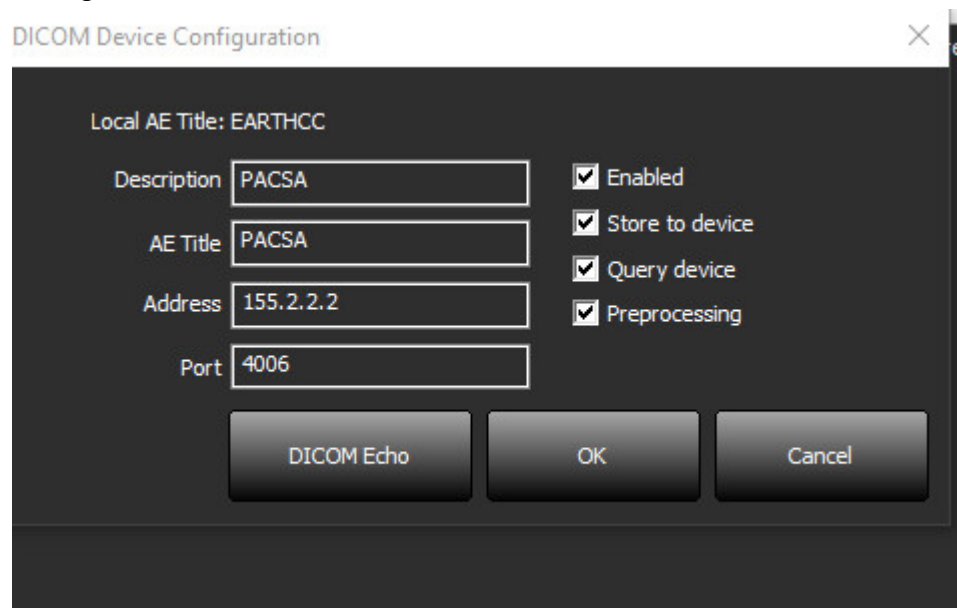
# Service and Support

## DICOM Network Failure

If a retrieval failed to transfer a study, confirm that a firewall is not preventing the transfer. If a firewall is not the issue, check that suiteDXT can DICOM echo the remote host and that the remote host can DICOM echo suiteDXT.

1. From the Main Screen, select Configuration.
2. On the DICOM Configuration tab, select the remote host from which the retrieval was attempted and select Edit.
3. Select the checkboxes for: Enable, Store to device and Query device.
4. Verify that the IP address, Port, and AE title for the DICOM Destination are correct.

**FIGURE 1. DICOM Configuration Window**



DICOM Device Configuration

Local AE Title: EARTHCC

Description: PACSA

AE Title: PACSA

Address: 155.2.2.2

Port: 4006

☒ Enabled

☒ Store to device

☒ Query device

☒ Preprocessing

DICOM Echo OK Cancel

5. Select DICOM Echo.
6. Check the network settings and confirm that the selected port is open and accessible on the suiteDXT host.
7. Retrieve the study again.

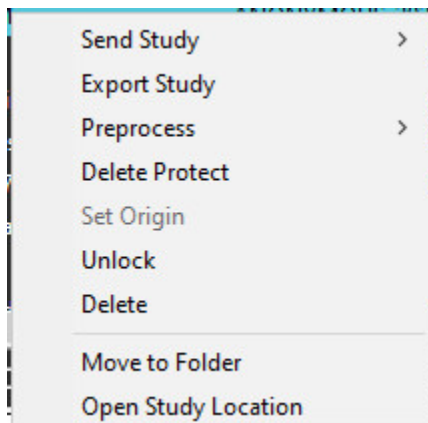
If after performing the above steps the retrieval fails again, contact your network administrator.

## Study Launch Error

If the message "The following studies are locked and will not be loaded in the launch" appears when trying to launch a study, do the following:

1. Navigate to the suiteDXT study directory.
2. Right-mouse click on the study that produced the error message.
3. Select "Unlock"

**FIGURE 2. Unlock Study**

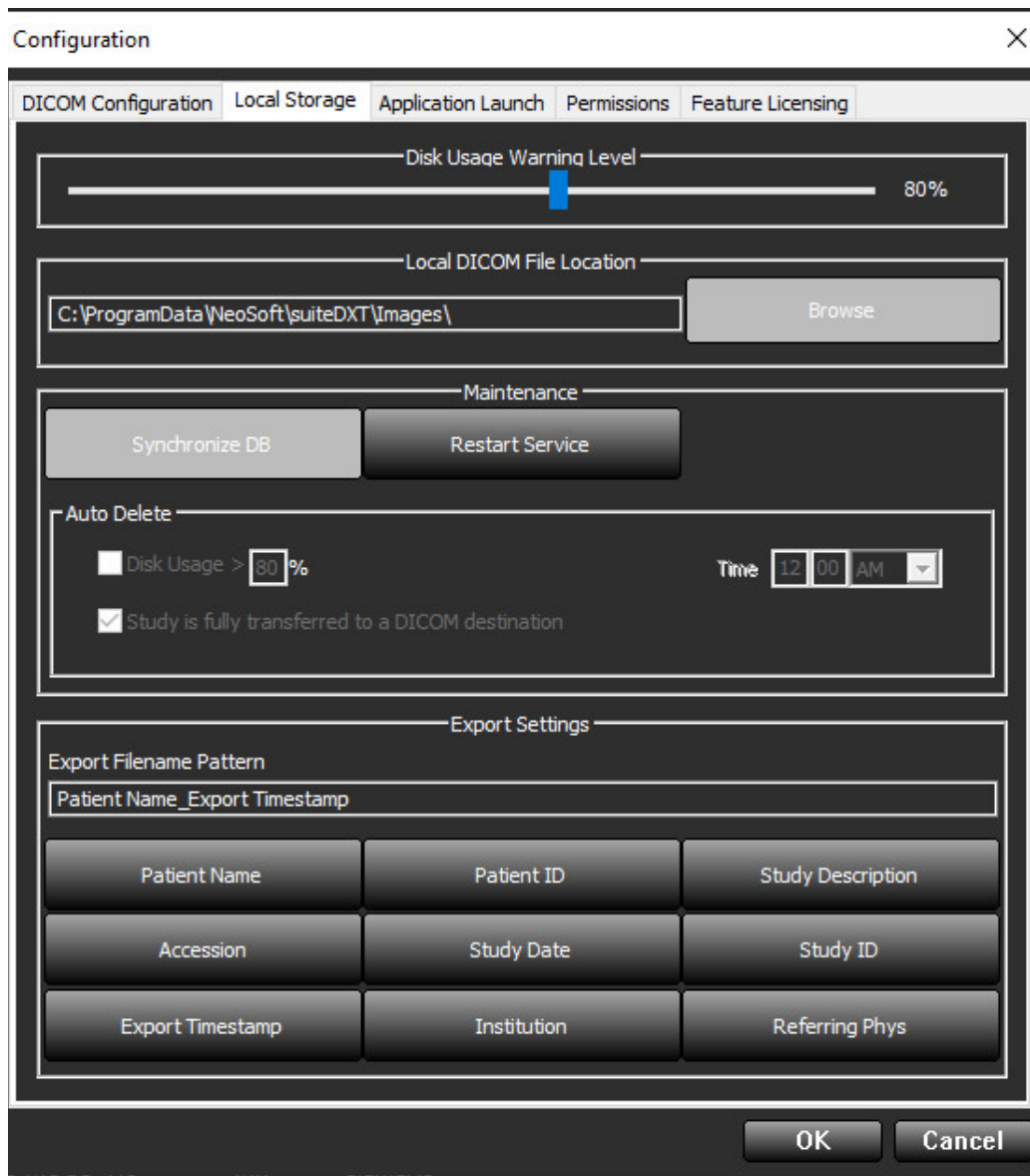


## Restart Service

If network failures persist, the suiteDXT DICOM service can be restarted.

1. From the Main Screen, select Configuration.
2. Select the Local Storage tab.
3. Click Restart Service.

**FIGURE 3. Restart Service**



## Contact

If you experience problems during installation or use of suiteDXT, please contact NeoSoft, LLC service at [service@NeoSoftmedical.com](mailto:service@NeoSoftmedical.com).