

Quick Start Guide: Using CTP and FileSender Software to Send Images to TCIA

Contents of this Page

- [Step 1 – Install CTP and FileSender](#)
- [Step 2 – Create a mapping table between your patient IDs \(probably MRN numbers\) and the TCIA IDs](#)
- [Step 3 – Launch CTP](#)
- [Step 4 – Sending Images](#)
- [Step 5 – Checking for Sending Errors](#)

This guide is a quick start companion to the [Image Submitter Site User's Guide](#).

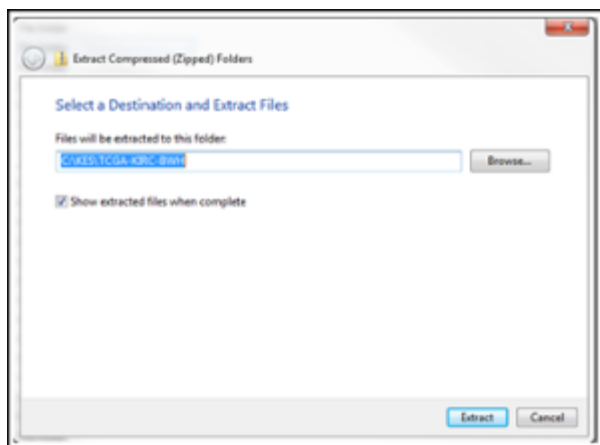


Although the examples in this guide are from a Windows computer, the steps are similar for other operating systems.

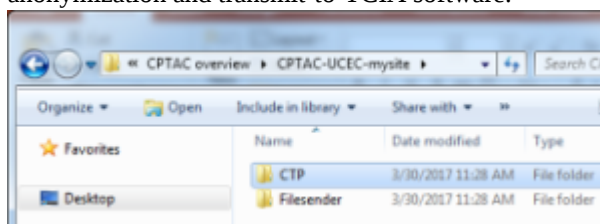
-

-

- Reproduced from <https://wiki.cancerimagingarchive.net>



Two folders are created. FileSender contains a way to queue DICOM files internally to CTP. CTP contains the anonymization and transmit-to-TCIA software.

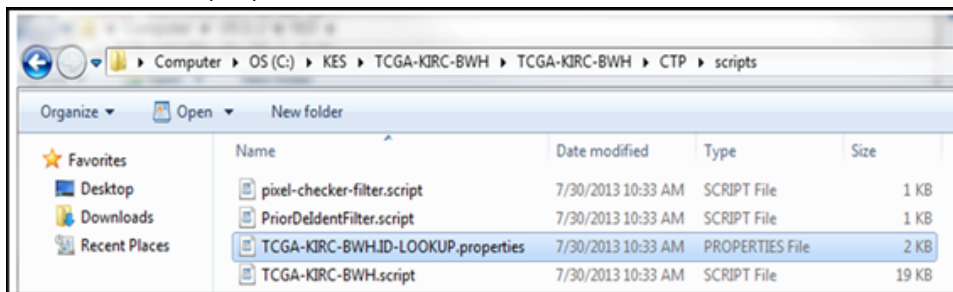


Step 2 – Create a mapping table between your patient IDs (probably MRN numbers) and the TCIA IDs

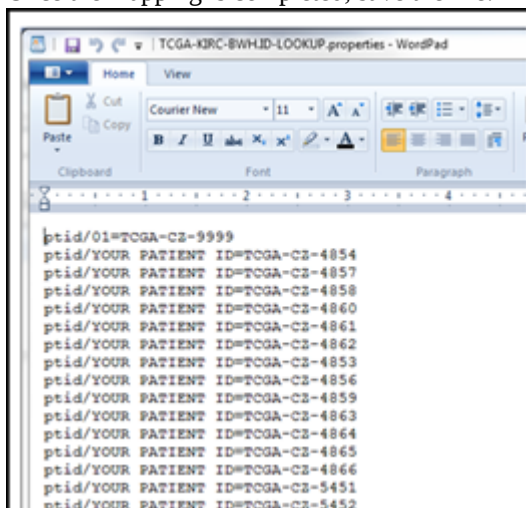
! For TCGA cases, it is EXTREMELY important that the mapping is done correctly as these TCGA IDs will be the only link between imaging and tissue samples in the [NCI Genomic Data Commons portal](#).

Other Collections with supporting information will also need someone to confirm that dates, File IDs, and PatIDs will be resolved across information types (for example, segmentations, xml, clinical spreadsheets, protein data, histopathology).

1. Navigate to the .../CTP/scripts folder and open the file XXX.ID-LOOKUP.properties file (where XXX represents a name unique to your site) using a plain text editor such as NotePad or WordPad. Please **do not use Microsoft Word** as that will put in special characters. Example shown below has a lookup table file named TCGA-KIRC-BWH.ID-LOOKUP.properties.

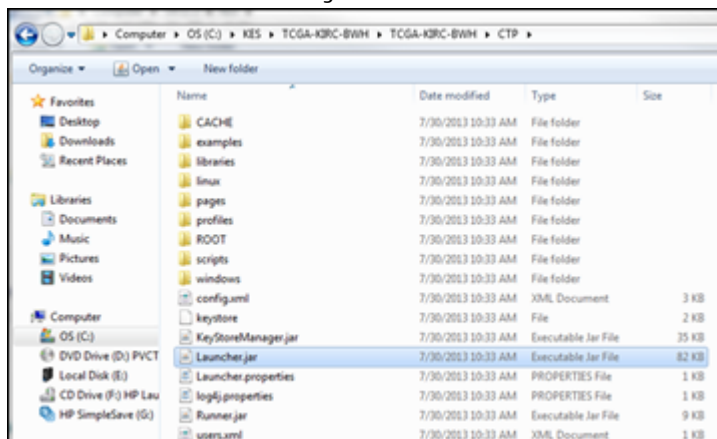


2. Complete the Mapping by editing the file you just opened.
3. Replace the “Your Patient ID” with the MRN that was assigned to the TCIA ID shown on the right side of the equal sign. An example is shown on the top line. In this fictional case we assigned MRN “01” to TCGA ID TCGA-CZ-9999. If this is not a TCGA collection, then there may be no assigned IDs on the right and you would create your own using the agreed upon naming convention. It is important to use the ptid/ as that is the key to the lookup table.
4. For TCGA collections, the pre-populated TCGA IDs represent the possible cases to send. You may not have imaging for all of them.
5. Once the mapping is completed, save the file.

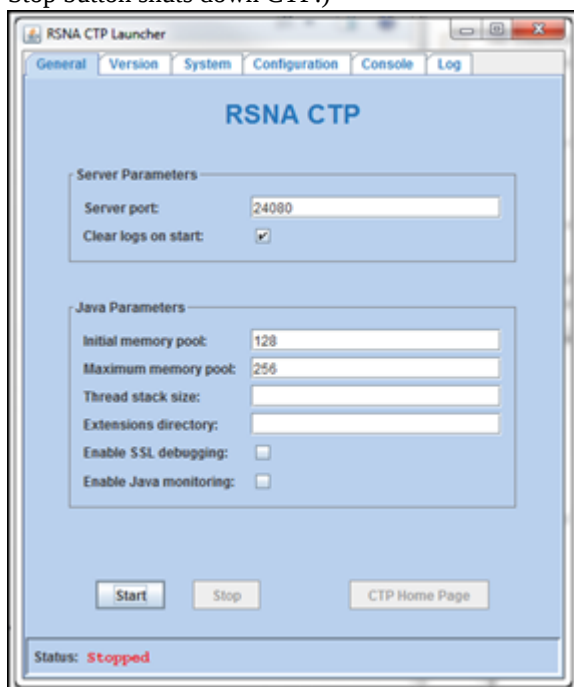


Step 3 – Launch CTP

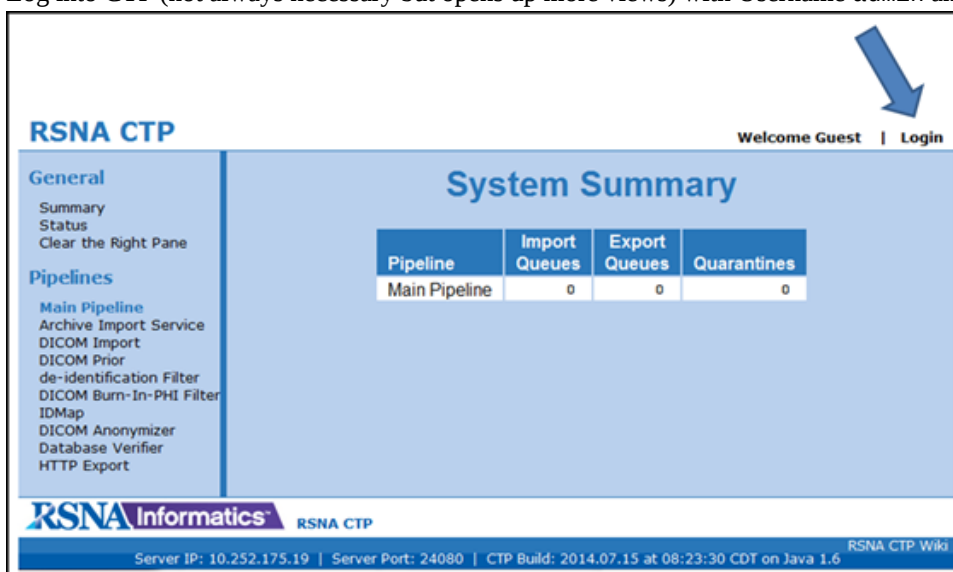
1. Double-click the Launcher .jar file in the CTP folder.



A window opens. Click Start and then click the CTP Home Page button when it becomes active. (Note that the Stop button shuts down CTP.)



- Log into CTP (not always necessary but opens up more views) with Username admin and Password password.



RSNA CTP Welcome Guest | Login

General
Summary
Status
Clear the Right Pane

Pipelines
Main Pipeline
Archive Import Service
DICOM Import
DICOM Prior
de-identification Filter
DICOM Burn-In-PHI Filter
IDMap
DICOM Anonymizer
Database Verifier
HTTP Export

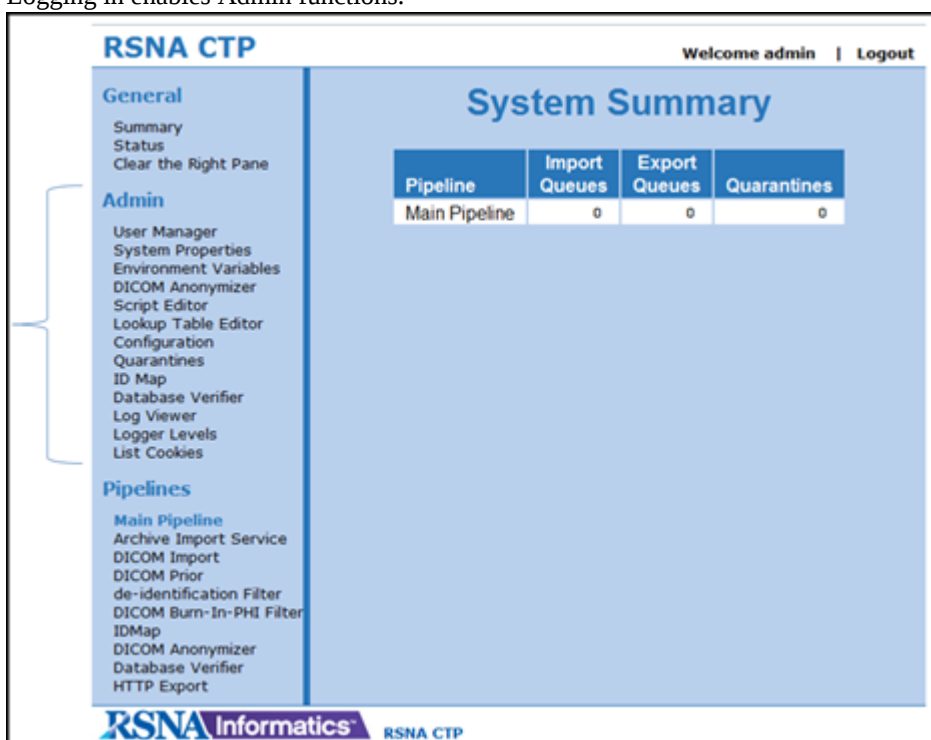
System Summary

Pipeline	Import Queues	Export Queues	Quarantines
Main Pipeline	0	0	0

RSNA Informatics® RSNA CTP

Server IP: 10.252.175.19 | Server Port: 24080 | CTP Build: 2014.07.15 at 08:23:30 CDT on Java 1.6 RSNA CTP Wiki

- Logging in enables Admin functions.



RSNA CTP Welcome admin | Logout

General
Summary
Status
Clear the Right Pane

Admin
User Manager
System Properties
Environment Variables
DICOM Anonymizer
Script Editor
Lookup Table Editor
Configuration
Quarantines
ID Map
Database Verifier
Log Viewer
Logger Levels
List Cookies

Pipelines
Main Pipeline
Archive Import Service
DICOM Import
DICOM Prior
de-identification Filter
DICOM Burn-In-PHI Filter
IDMap
DICOM Anonymizer
Database Verifier
HTTP Export

System Summary

Pipeline	Import Queues	Export Queues	Quarantines
Main Pipeline	0	0	0

RSNA Informatics® RSNA CTP

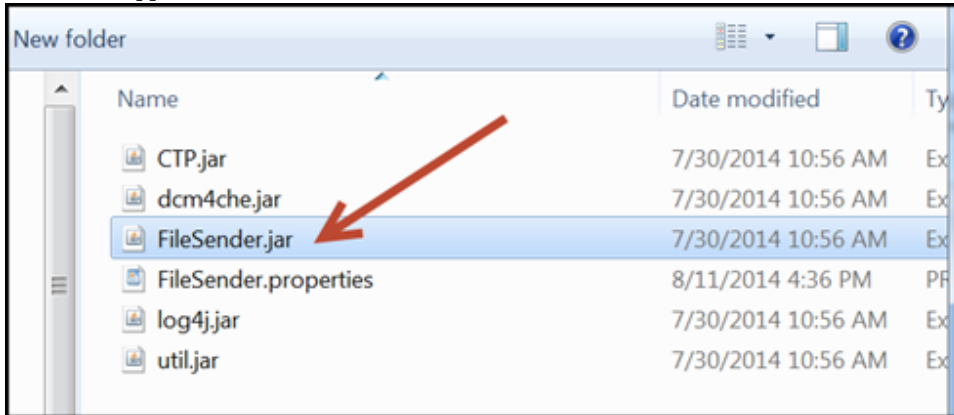
Step 4 – Sending Images

If your images are accessible from the computer where CTP is installed, then you can use FileSender to send the images to CTP which will de-identify them and route them to TCIA for curation.

 You can also send directly from a PACS. CTP is configured to accept any AET. Most sites use CTP as the AET name if sending from PACS.

1. To use FileSender, open the FileSender folder and double-click FileSender.jar.

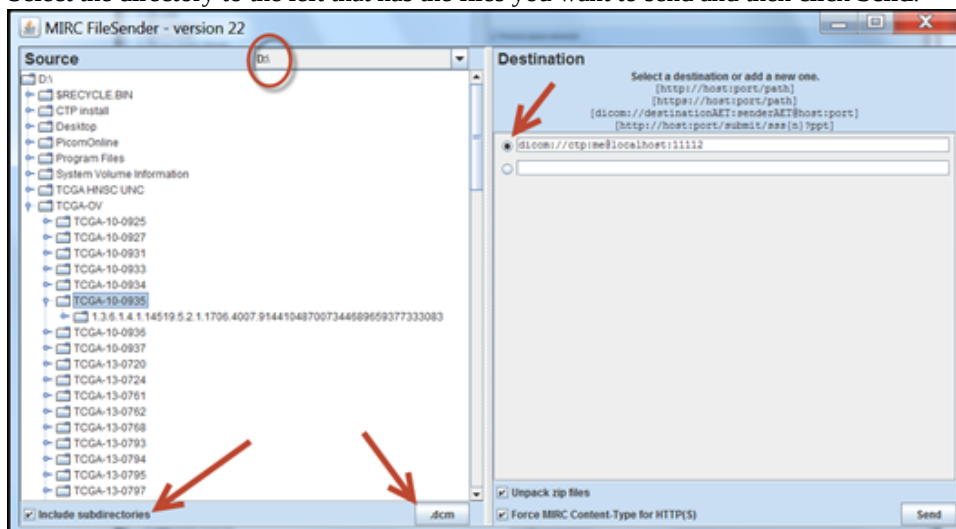
A window appears.



2. Click the radio button in the destination panel. The line shown is configured to send to CTP on the local computer through port 11112.

A check box at the bottom left can be selected if the DICOM data is in a folder hierarchy

3. At the lower right of the Source panel is a box that has an *. That just means send any files. If your images all have extensions of .dcm, you could click the * and change it to .dcm. Only DICOM files will be transmitted, other files will throw an exception.
4. Select the directory to the left that has the files you want to send and then click **Send**.



5. Monitor the submission process from the Status link on the RSNA CTP homepage.

RSNA CTP		Status	
General Summary Status Order the High Note	Main Pipeline	Active Import Service	
		Active terminal	Complete
Active User Manager Active Properties Import Queue Export Queue Configuration System Database Log Viewer Log Manager Log Viewer Log Viewer	Main Pipeline	DICOM Import	
		File received	0
Main Pipeline Active Import Service DICOM Import Export Queue Configuration System Database Log Viewer Log Manager Log Viewer Log Viewer	Main Pipeline	DICOM Prior to Identification Filter	
		File received	0
Main Pipeline Active Import Service DICOM Import Export Queue Configuration System Database Log Viewer Log Manager Log Viewer Log Viewer	Main Pipeline	DICOM Prior to PPS Filter	
		File received	0
Main Pipeline Active Import Service DICOM Import Export Queue Configuration System Database Log Viewer Log Manager Log Viewer Log Viewer	Main Pipeline	DICOM Association	
		File received	0
Main Pipeline Active Import Service DICOM Import Export Queue Configuration System Database Log Viewer Log Manager Log Viewer Log Viewer	Main Pipeline	DICOM Export	
		File received	0

6. Make sure the last stage “HTTP Export” queue is empty before stopping CTP.

 Although the import queue will be empty much sooner, keep CTP running.

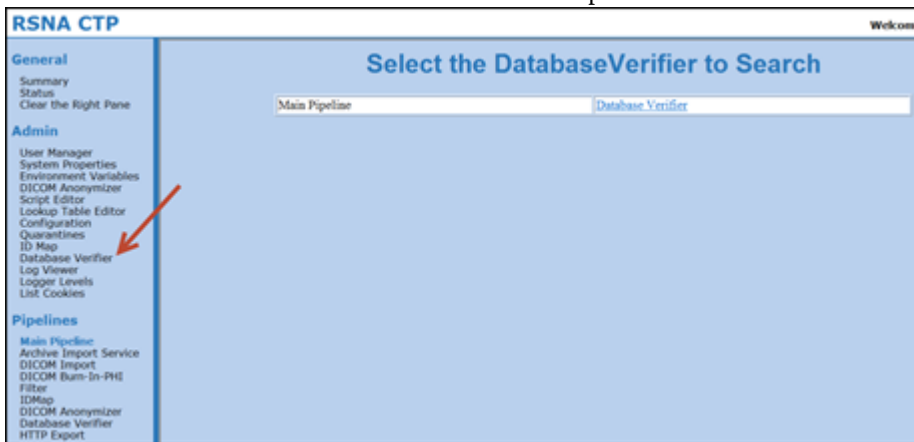
HTTP Export	
Last export elapsed time:	6438 msec
Queue size:	0
Last file dequeued:	roots/http-export-active/QF-6493733694267194427[TMP-6744667572103139116.dcm]
Last file dequeued at:	2014.09.03 14:50:07
Last file received:	roots/dicom-import-active/QF-6478462072546220146[TMP-6744667572103139116.dcm].dcm
Last file received at:	2014.09.03 14:48:58
Last file supplied:	C:\Users\kes\Documents\TCIA\CTP_stuff\CTP-QIN-GBM-DCE-MRI-UofWash\CTP-QIN-GBM-DCE-MRI\roots\dicom-import-active/QF-6478462072546220146[TMP-6744667572103139116.dcm].dcm
Last file supplied at:	2014.09.03 14:48:58

Step 5 – Checking for Sending Errors

1. After the images have been sent, check the quarantines page to see if any images went to quarantine.

All Quarantines		
Main Pipeline	DICOM Prior de-identification Filter	0
	DICOM Burn-In-PHI Filter	0
	DICOM Anonymizer	0

2. You can also click on the database verifier link to compare what is in the database compared to what you sent.



The screenshot shows the RSNA CTP web interface. The left sidebar contains a menu with sections: General, Admin, and Pipelines. A red arrow points to the 'Database Verifier' link under the Admin section. The main content area is titled 'Select the DatabaseVerifier to Search' and contains a search bar with 'Main Pipeline' and 'Database Verifier' as options.

3. At the end of your submission, we will provide you with a list of subjects received along with the number of images for each. We will ask you to confirm that is the number sent.