


# Using the Upload Applet

The XNAT web application includes a Java-based upload applet that supports uploading DICOM and ECAT data. This uploader guides the user through selecting data files, modifying metadata, and uploading a session to XNAT.

 All major web browsers have ended support for running embedded Java applets in the browser. As of XNAT 1.7.3, the Upload Applet is no longer supported. We recommend installing the [Desktop version of the Upload Applet](#) or using another upload method. This documentation has been preserved for archival reasons.

 If you are running your XNAT installation using Apache HTTPD as the front-end to Tomcat with SSL, you should read [HttpdJava7](#).

## Start the upload applet

To launch the XNAT Upload Applet from anywhere in XNAT, go to **Upload > Images > Upload Applet** in the top navigation.

## Select a Project and Subject

### Upload Image Sessions

DICOM and ECAT files can be uploaded using this online upload tool. Begin by selecting the project, subject, and date for the session you wish to upload and then click the **Launch Uploader** button. You will need Java installed in order and operational to use the uploader. [Check here](#) to verify that your Java is working.

**Project:**


**Subject:**  [Add New Subject](#)

**Session Date**   [use today's date](#)

I don't know the date or my session doesn't have a date

All image sessions are treated as subject assessors in XNAT, which means they must be associated with a project and a subject. If you launch the upload applet from a project or subject page, these menus should be preselected. If not, you will need to manually select a project, and then a subject from that project.

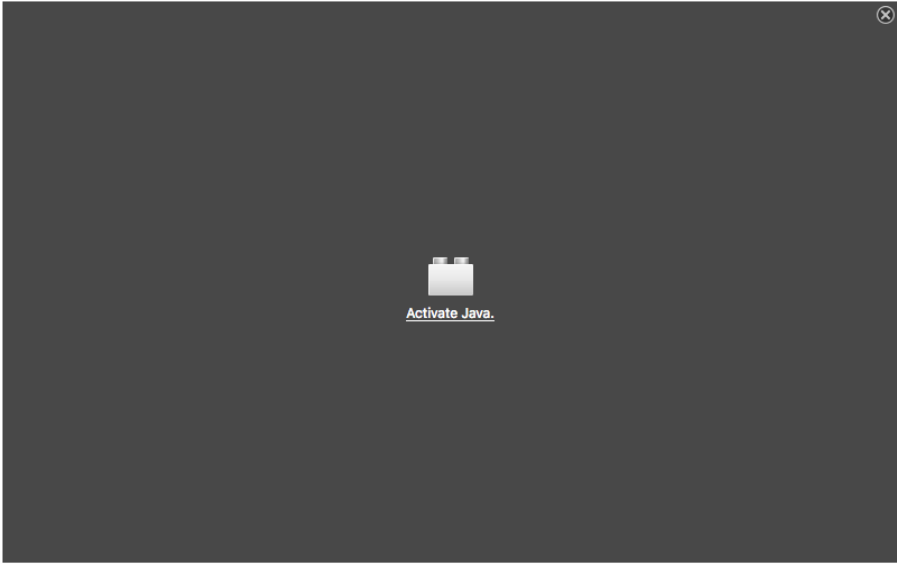
If you like, you can add a subject without leaving the context of the uploader by clicking the "Add New Subject" link. A New Subject form will open in a popup.

 Your XNAT may require you to specify the Session Date prior to uploading. This setting can be set by an XNAT Admin. See: [Site-wide Session Upload and Anonymization Settings](#).

## Activating / Allowing Java

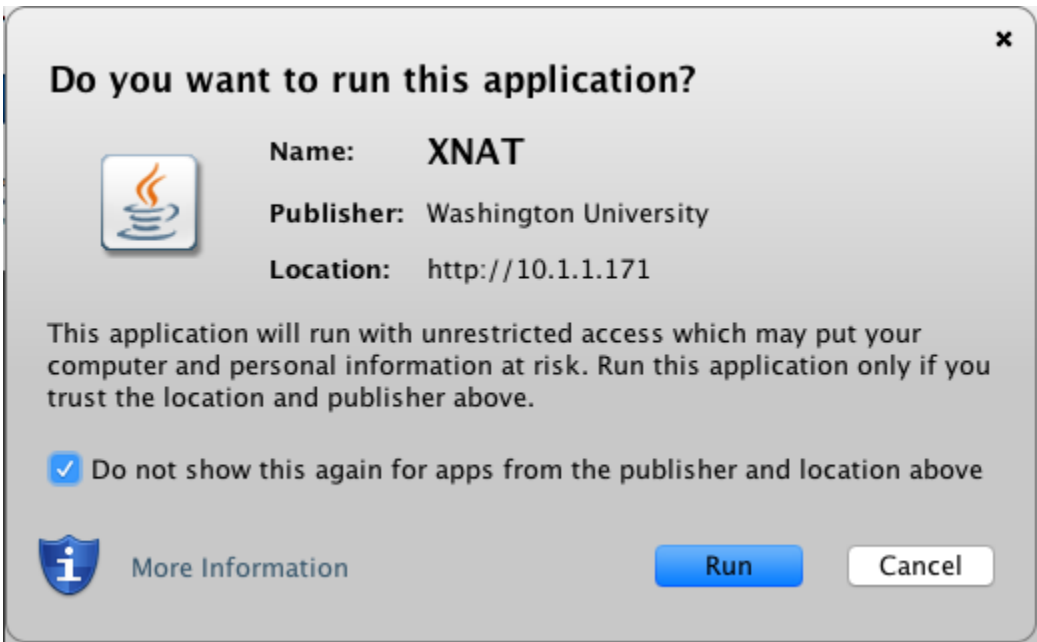
TEST

This tool supports uploading DICOM and ECAT formatted medical imaging data. If you are unsure of the format of your data, please contact the help desk for assistance. The tool takes a few moments to load, during which time you may see a blank screen below. Please be patient while the tool loads. The tool requires Java 1.6 or newer to operate. If your browser does not have this version of Java installed, please contact your IT support for assistance.



When the uploader starts for the first time, your browser will likely make you click through several prompts before it continues.

- **Activate Java:** Select the option that says "Allow and Remember," to ensure that you only have to do this once.
- **Validate Certificate:** The Upload Applet is now a signed applet, published by the Washington University School of Medicine. To avoid being constantly prompted with this dialog, check the "Do not show this again" checkbox before clicking "Run".



Select Files To Upload

✓ The XNAT Upload Applet does not handle compressed image session archives. If you want to upload a .zip or .tar.gz compressed archive, you can use the Compressed Uploader instead.

**Steps**

1. Select files
2. Verify selected session
3. Enter session details

**Select the directory containing the session to be uploaded**

Name	Date Modified
GSU001_v00_mr	Tuesday, October 11, 2016 2:51 PM
GSU001_v00_mr.zip	Wednesday, October 12, 2016 12:10 PM
GSU001_v00_pet.zip	Wednesday, October 12, 2016 12:10 PM
GSU001_v01_mr.zip	Wednesday, October 12, 2016 12:10 PM
GSU002_v00_mr.zip	Wednesday, October 12, 2016 12:11 PM
GSU002_v00_pet.zip	Wednesday, October 12, 2016 12:11 PM
GSU002_v01_mr.zip	Wednesday, October 12, 2016 12:11 PM
OUA001_v00_mr.zip	Wednesday, October 12, 2016 12:11 PM
OUA001_v01_mr.zip	Wednesday, October 12, 2016 12:11 PM
OUA002_v00_mr.zip	Wednesday, October 12, 2016 12:11 PM
OUA002_v01_mr.zip	Wednesday, October 12, 2016 12:11 PM
UCV001_v00_mr.zip	Wednesday, October 12, 2016 12:11 PM
UCV001_v00_pet.zip	Wednesday, October 12, 2016 12:11 PM
UCV001_v01_mr.zip	Wednesday, October 12, 2016 12:11 PM
UCV002_v00_mr.zip	Wednesday, October 12, 2016 12:11 PM
UCV002_v00_pet.zip	Wednesday, October 12, 2016 12:11 PM

File Format:

Cancel < Prev Next > Finish

Browse your local file system, looking for the folder that contains the image session you wish to upload. When you have selected the containing folder, click "Next".


(Note that the file format menu is not used, since you are selecting a folder, not a file.)

### Verifying Session Contents



**Steps**

1. Select files
- 2. Verify selected session**
3. Enter session details

**Review and verify selected session information**

Please confirm the scans to be included:

Upload	#	Scan Type	File Count	Size (bytes)
<input checked="" type="checkbox"/>	1	3 Plane Localizer	15	2.03 MB
<input checked="" type="checkbox"/>	2	Sag IR-SPGR	196	26.6 MB
<input checked="" type="checkbox"/>	4	Accelerated SAG IR-SPGR	196	26.6 MB
<input checked="" type="checkbox"/>	5	Axial FLAIR	42	5.69 MB
<input checked="" type="checkbox"/>	6	Axial T2 Star	44	5.97 MB
<input checked="" type="checkbox"/>	702	T2-weighted trace	59	8.01 MB


Note: Unchecked scans will not be uploaded.

**Session Summary**  
 DICOM\_session 11871  
 Accession: 2155065  
 Description: Nifti\_Proc  
 Date: 2011-03-24 15:41  
 Modality: MR  
 6 scans in 552 files (74.9 MB)

The Upload Applet will display each scan identified within the image session, and allow you to upload only those scans that are relevant to your study. The applet will also display highlighted DICOM metadata fields indicating the accession ID, originally intended project, and session date.

If you want to browse or edit the full content of an image session's DICOM fields before uploading, you can use the [DicomBrowser](#) application.

## Labeling the Image Session

Steps	Review session information and enter session details if applicable
1. Select files 2. Verify selected session <b>3. Enter session details</b>	<div style="text-align: right; margin-bottom: 10px;">             project TEST              subject Test001           </div> <div style="text-align: center; margin-bottom: 5px;"><b>Set session identifiers:</b></div> <div style="margin-bottom: 10px;">             session <input style="width: 300px;" type="text" value="Test001_MR1"/> </div> <div style="margin-top: 20px;">  </div>
<div style="display: flex; justify-content: flex-end; gap: 10px;"> <span>Cancel</span> <span>&lt; Prev</span> <span>Next &gt;</span> <span style="background-color: #0070C0; color: white; padding: 2px 10px; border-radius: 3px;">Finish</span> </div>	

Finally, the upload applet will verify the project and subject that you selected at the beginning of the upload process, then allow you to name the session. The applet will auto-suggest a label based on the subject identifier.

## Uploading

The applet will now send the data to XNAT. A progress monitor at the lower left shows how much data has been uploaded, and the expected total size (which may change as data are compressed before sending). Depending on the size of your data and the speed of your network connection, the upload may take seconds to hours.

When the upload is complete, a confirmation that the upload was successful will be displayed, with a link to the report page of the newly uploaded session. If anything went wrong during the upload, a diagnostic message will be displayed instead.

## Adding Custom Configurations to the Upload Applet

You can configure parameters that are passed to the upload applet, as well as require users to enter in dates or times before launching the applet. To do this, you need to specify a configuration for the applet at either the site-wide or project-specific level.

**XNAT Admins:** [Image Upload Applet Parameters](#)

## Configuring Apache HTTPD to Support the Java 7 Plugin

Due to a change in the Java Secure Socket Extension API implementation in Java 7, server name indication is turned on by default in clients using the Java 7 plugin. This means that the server name must be properly configured in the server configuration. Failure to do this will cause these clients to fail with a message like this:

```
Application Error
ClassNotFoundException
org.nrg.upload.ui.UploadAssistantApplet
```

The fix for this issue is fairly simple:

1. Open the **httpd.conf** file for your Apache HTTPD installation (on most Linux systems, this can be found in **/etc/httpd/conf/httpd.conf**).
2. Find the **<VirtualHost>** entry for your installation.

3. Somewhere within this entry, add the directive: **ServerName server.domain.tld**. For example, if your server is **foo.bar.edu**, it would be **ServerName foo.bar.edu**.
4. Save and close the **httpd.conf** file.
5. Restart your Apache HTTPD server: **service tomcat7 restart**.