

STOPPD XNAT Upload Quickstart Guide

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<https://github.com/tigr1ab/stoppd>

ACCESSING STOPPD DATABASE

<http://da55.pet.utoronto.ca:5004/spred>

DICOM Port: 8104. Calling & Called Title: XNAT.

Log in using your site's username and password.

The master project, 'STOPPD01', will contain all of the data. 'STOPPD02'-'STOPPD04' will contain each site's data. This allows us to keep the data organized between sites. Each site will be supplied with a username and password for accessing their 'STOPPDXX' project.

This guide is a hyper-condensed version of a more explicit guide written for the SPReD database, available on GitHub.

UPLOADING DATA

DICOM Header Requirements

The XNAT database requires some information in the DICOM header to be intact.

- (0008,0020), (0008,0021), (0008,0022) – Scan Date.
- (0010,0010) – Patient Name (e.g., STOPPD01_MRC_0021_01_01).
- (0010,0020) – Patient ID (e.g., STOPPD01_MRC_0021_01_01).
 - This is because Name & ID become Subject & Session, respectively, and in the SPINS projects these are identical.

Upload Overview

Ensure your raw DICOM scans for a given participant are in each in their own folder.

Do not include NIFTI or otherwise converted files in this package, but do include '.bvec' and '.bval' data.

Do not include any pre-processed data from the scanner (e.g., motion corrected data, FA maps, etc.) These pollute the database and we can generate better images in post-processing.

Package your raw DICOM folders into a appropriately named session ZIP file (e.g., STOPPD01_CMH_0032_01_01).

Upload your ZIP file to the database using the browser-based GUI.

Create New Subject

Subject IDs must be assigned by your study coordinator.

From top of Project page, 'New' → 'Subject'.

Upload DICOM Images as .zip

From top of Subject page: 'Upload' → 'Images'.

- Select 'Click Here' (near bottom) → 'Compressed Upload' with SPINS project and destination 'Prearchive'.
- Choose a DICOM zip file, then 'Begin Upload' (and wait for upload).
- 'Upload' → 'Go to prearchive'. Select uploaded session, then 'Archive'.
- Check/correct subject ID, make session ID identical to subject ID, review other fields, then 'Submit'.
- NB: Because each subject has exactly one session, the session should be identical to the subject name used for the .zip file.

A note about manual uploads: The precise naming of the DICOM header fields will automate most of the session and scan generation process, making your life rather easy. Please see below for a naming guide.

Upload Non-DICOM Data ('Tech Notes')

- From Session page, click 'MR Session' → 'Manage Files'. You should see a list of the DICOM scans.
- Click 'Add Folder'. Set 'Level' to 'resources' and 'folder' to 'notes'. Click create.
- Click 'Upload Files', 'Level' == 'resources', 'Folder' == 'notes'. Click 'Browse' and attach the notes.pdf file. Click 'Upload'.

Ensure the uploaded data is all present in the tree.

Now, the data will be included alongside the DICOM images in future downloads.

GLOSSARY

Sites:

- CMH - Centre of Addiction and Mental Health
- MAS - U Massachusetts
- NKI - Nathan Kline Institute
- PMC - Pittsburg Medical Center

NAMING CONVENTIONS & SPECIFICS

Each subject's data is to be submitted via an appropriately named .zip file. These folders should each (only) contain a set of DICOM images from a single scanning session.

Participants

STOPPD01_CMH_0009_01_01

[Study]_[Site]_[Subject]_[Session]_[Repeat]

Session '01' is the first timepoint, and '02' is the one year follow-up. Repeat will typically be '01'. In the case that the participant needs to leave the scanner and return at a later time/date under a second session, repeat will be '02'.

APPENDIX

These steps might be required if the automatic subject/session creation with .zip upload does not function properly.

Create New Session/Experiment

Session IDs should be alpha-numeric starting with the participant code ('O' or 'P'), and a three-digit number denoting participant number ('001').

A session is automatically created when a DICOM zip file is loaded, so one can normally skip this step!

To manually create a session (e.g. MR):

- From Subject page 'Actions' menu → 'Add Experiment'.
- Select 'MR Session'.

- Enter Session Name (and optional details).
- Delete unused scan rows (scissors).
- Enter scan number(s), type (MR), quality (usable).
- 'Submit'.

Create New Scans

Scan(s) automatically created when a DICOM zip file is loaded, so one can normally skip this step!

To manually create a scan:

- From Session page 'Actions' menu → 'Edit' → 'Add Scan'.
- Enter scan number(s), type, quality → 'Submit'.

MORE HELP

More information is available on our public GitHub page <https://github.com/TIGRLab/stoppd>. This is a private repo, so you will need to contact joseph@viviano.ca to gain access. Here, you can file issues directly with us, view our wiki, and see all of the collected documentation (including this document) under /docs.

Please do not put any identifying patient information here!

Compiled on March 26, 2015. Check periodically for updates.