

Creating and Managing Subjects

Most experiment data in XNAT is associated directly with a subject. In turn, a subject can have multiple experiments. Subject information can be as brief and simple as an identifier. Or, it can contain in-depth demographic information. Either way, creating a subject is required to add imaging data (as well as subject assessment data).

There are multiple ways to store subjects in XNAT:

1. The XNAT webapp UI
2. StoreXML
3. Upload Spreadsheet
4. The XNAT API

Creating Subjects in the XNAT UI

Within the XNAT webapp there are several interfaces for creating subjects.

Creating Subjects using the Create Subject Form

The screenshot shows the 'Enter a new subject' form in the XNAT webapp. At the top, there is a navigation bar with 'Browse', 'New', 'Upload', 'Administer', 'Tools', and 'Help' menus. The user is logged in as 'admin' and has an auto-logout timer of 0:14:42. The form is titled 'Enter a new subject' and contains the following fields:

- Primary Project:** A dropdown menu labeled 'Select Project'.
- Subject's ID within this project:** A text input field.
- Subject's research group within this project:** A text input field.
- Demographics:** A section with the following fields:
 - YOB/DOB/Age:** A section titled 'Please Select One' with three radio buttons: 'Date Of Birth' (selected), 'Year Of Birth', and 'Age'. The 'Date Of Birth' option has a date input field (MM/DD/YYYY) and a 'select date' button.
 - Gender:** A dropdown menu.
 - Handedness:** A dropdown menu.
 - Education:** A text input field.
 - Race:** A text input field.
 - Ethnicity:** A text input field.
 - Height (inches):** A text input field.
 - Weight (lbs):** A text input field.
 - Recruitment Source:** A text input field.

A 'Submit' button is located at the bottom left of the form.

- From any page, users can select **New > Subject** in the top navigation. This will launch the Create Subject form.
- From any project report page, users can select **New > Subject** in the project Actions box. This will launch the Create Subject form with the current project preselected.

Creating Subjects While Uploading Images

- When using the Upload Applet (if this feature is enabled), you will be prompted to select a project and subject to upload your image session into. Click the "Create Subject" link next to the subject selector.
- When a new session is uploaded to the Prearchive via the compressed uploader or a connected DICOM device, it will contain metadata assigning the session to a subject. If that subject does not already exist, it can be created automatically during the process of archiving the session to your project.

Creating Subjects via Uploaded Definition

StoreXML

Users also have the option of creating an XML document for each subject in their project, and directly storing that document into the application. This can be done through the web interface (Upload XML) or through a command line tool (which uses web services to store the XML). This is especially helpful for users who are converting from another XML structure, or generating subjects in another programmatic way.

Upload Spreadsheet

The most common way to upload large numbers of subjects is the [Upload Spreadsheet](#) feature. This feature allows users to create spreadsheets that contain information about each subject (based on a generated template). The subject can then upload that spreadsheet through the web interface. This process allows users to get large projects into XNAT quickly.

Creating Subjects via XNAT API

Advanced users may want to bypass the UI and use the XNAT REST API to create subjects: [Create Subjects with XNAT REST API](#)

Reviewing and Editing Subject Data

Once subjects have been uploaded using one of the methods described above, the details about those subjects is easy to review. First, the user can quickly see a summary of information through the subject listing on the Project Report. Then, by clicking on individual subjects, users can review in-depth information about the subject on the subject report.

The screenshot shows the XNAT web interface. At the top, there is a navigation bar with a logo and menu items: Browse, New, Upload, Administer, Tools, and Help. On the right side of the navigation bar, it shows the user is logged in as 'admin', with an auto-logout timer at 0:14:46 and links for 'renew' and 'Logout'. Below the navigation bar, there is a search bar with 'Stored Searches' and a 'Go' button. The main content area shows the breadcrumb 'PROJECT: TEST > Sample_Patient' and the title 'Subject Details: Sample_Patient'. There are two tabs: 'Details' (selected) and 'Projects'. The 'Details' tab shows a list of subject attributes: Accession # (XNAT_S00036), Date Added (2016-12-15 23:04:03.332 (admin)), Birth year (--), Gender, and Handedness. To the right of the details is an 'Actions' menu with options: Edit, View XML, Add Experiment, Upload Images, Download XML, Email, Manage Files, and Delete. Below the details is an 'Experiments' section with a table. The table has columns for Date, Experiment, Project, and Label. The first row shows a date of 2006-12-14, an experiment labeled 'MR Session', a project labeled 'Test', and a label 'Sample_ID'.

Logged in as: [admin](#) | ? Auto-logout in: 0:14:46 - [renew](#) | [Logout](#)

[Browse](#) [New](#) [Upload](#) [Administer](#) [Tools](#) [Help](#)

[PROJECT: TEST](#) > [Sample_Patient](#)

Subject Details: Sample_Patient

Details	Projects
Accession # XNAT_S00036 Date Added 2016-12-15 23:04:03.332 (admin) Birth year -- Gender Handedness	

- Actions
 - Edit
 - View XML
 - Add Experiment
 - Upload Images
 - Download XML
 - Email
 - Manage Files
 - Delete

Experiments

Date	Experiment	Project	Label
2006-12-14	MR Session	Test	Sample_ID