

Using the Prearchive

The XNAT Prearchive lives in a separate database and file system from your XNAT Archive, and does not permanently store any data. This makes it a safe place to triage scans that may contain PII and prevent them from being permanently stored in your Archive. When scans are sent to the Prearchive, you can review them to ensure that they have been properly anonymized, and that they are assigned to the proper project and subject, before moving them to the Archive.

To get to the Prearchive from anywhere in the XNAT application, go to **Upload > Go To Prearchive** in the top navigation.

Here's an overview of the elements of the Prearchive UI, and how to use it.

Elements of the Prearchive UI

The main screen consists of:

1. The list of sessions in the prearchive
2. The session details of the highlighted row
3. Filters on the session list
4. Actions that can be performed on selected sessions

The screenshot displays the XNAT Prearchive interface. On the left, a table titled "Sessions" (marked with a red 1) lists sessions with columns for Project, Subject, Session, Scan Date, Upload Date, and Status. The first row is highlighted. On the right, a "Details of Highlighted Session(s)" panel (marked with a red 2) shows information for the selected session, including Project, Subject, Session, Scan Date, Upload Date, Status, and Scanner. Below the details panel, an "Actions" section (marked with a red 3) contains buttons for Archive, Review and Archive, Change Projects, Delete, and Rebuild. At the bottom right, a "Filters" section (marked with a red 4) includes input fields for Projects, Upload Date (From/To), Scan Date (From/To), Status, and Subject/Session.

Project	Subject	Session	Scan Date	Upload Date	Status
Nifti_Proc	GSU001	GSU001_v00_mr	Thu Mar 24 20...	Tue Dec 20 2016 1...	Ready
Nifti_Proc	GSU001	GSU001_v00_p...	Thu Mar 31 20...	Tue Dec 20 2016 1...	Ready
UXE_Lond...	Subj_004	0000004	Tue Dec 19 20...	Tue Dec 20 2016 1...	Ready
UXE_NYC	Subj_025	0000025	Tue Dec 19 20...	Tue Dec 20 2016 1...	Ready
Nifti_Proc	UCV001	UCV001_v00_mr	Thu Jun 02 20...	Tue Dec 20 2016 1...	Ready

1 of 5 rows

Details of Highlighted Session(s)

Project : Nifti_Proc
Subject : GSU001
Session : GSU001_v00_mr
Scan Date : Thu Mar 24 2011 00:00:00 GMT-0500 (Central Daylight Time)
Upload Date : Tue Dec 20 2016 19:30:27 GMT-0600 (Central Standard Time)
Status : Ready
Scanner :
More : [Details](#)

Actions

Actions are performed on checked sessions.

[Archive](#) [Review and Archive](#) [Change Projects](#) [Delete](#) [Rebuild](#)

Filters

Projects:
Upload Date: From ... To ...
Scan Date: From ... To ...
Status:
Subject/Session:

Session List

By default the session list displays all the sessions in the Prearchive. Using the View Menu it is possible to see only the sessions that have been selected or filtered. You can also hide/show columns.

Sessions

View

	Project	Subject	Session	Scan Date	Upload Date	Status	
<input type="checkbox"/>	Nifti_Proc	GSU001	GSU001_v00_mr	Thu Mar 24 20...	Tue Dec 20 2016 1...	Ready	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Nifti_Proc	GSU001	GSU001_v00_p...	Thu Mar 31 20...	Tue Dec 20 2016 1...	Ready	<input checked="" type="checkbox"/>
<input type="checkbox"/>	UXE_Lond...	Subj_004	0000004	Tue Dec 19 20...	Tue Dec 20 2016 1...	Ready	<input checked="" type="checkbox"/>
<input type="checkbox"/>	UXE_NYC	Subj_025	0000025	Tue Dec 19 20...	Tue Dec 20 2016 1...	Ready	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Nifti_Proc	UCV001	UCV001_v00_mr	Thu Jun 02 20...	Tue Dec 20 2016 1...	Ready	<input checked="" type="checkbox"/>

Project :
Subject :

Project
Subject
Session
Scan Date
Upload Date
Status
Scanner

Archive Rev

Left-clicking the column toggle table header will show a list of columns with checkboxes next to them. Selecting a column toggles its visibility. Please note that this setting is not saved, meaning that refreshing the page will cause the session table to revert to its default state.

Selecting/Unselecting a single session

Sessions must be selected to perform operations on them. Double-click a session to select it. The checkbox in the first column should now be checked. Double-clicking a checked session will uncheck it.

Selecting multiple sessions

You can highlight multiple sessions in one of two ways:

- Control-click on individual rows
- Highlight a range by clicking the first session, then shift-click the final session in the range.

To select those rows, click the **Check** button at the top of the session list. The highlighted rows should now be checked. Rows that were previously checked will remain checked. The **Uncheck** button will unselect any highlighted rows. The **Check All** and **Uncheck All** buttons perform these actions on all rows.

Using the View Menu

The "View" menu shows the following session subsets:

- "All" shows all the sessions in the Prearchive.
- "Selected" shows sessions that have been checked
- "Filtered" shows sessions that match the constraints shown in the "Filters" section of the prearchive.

Reviewing Session Details

Details of Highlighted Session(s)

Project : Nifti_Proc
Subject : GSU001
Session : GSU001_v00_mr
Scan Date : Thu Mar 24 2011 00:00:00 GMT-0500 (Central Daylight Time)
Upload Date : Tue Dec 20 2016 19:30:27 GMT-0600 (Central Standard Time)
Status : Ready
Scanner :
More :

The details section of the prearchive displays the details of the currently highlighted session. You can also click the "Details" button to be taken to the session prearchive details page. This will give you a full view into the session and scan parameters, as well as DICOM headers and any potential conflict warnings from XNAT if any duplicate session data is found in the archive.



If desired, users can archive the session directly from the Prearchive Details Page. This is the recommended method if you need to remove a scan from the session before archiving.


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

[Stored Searches](#) ▾

[Nifti_Proc](#)

Project: Nifti_Proc
Session: GSU001_v00_mr
Subject: GSU001
Study Date: 03/24/2011
Patient ID: GSU001_v00_mr
Patient Name: GSU001
UID: 2.16.124.113543.6006.99.07776968240265570639
Upload Date: 12/20/2016 19:30:27

Actions
Archive
Modify and Archive
Change Project
Delete

Scans

ID	Description	Files	Actions			
1	3 Plane Localizer	15 files, 2.03 MB	Download Files	Review File Details	Review DICOM Tags	Delete Series
2	Sag IR-SPGR	196 files, 26.58 MB	Download Files	Review File Details	Review DICOM Tags	Delete Series
4	Accelerated SAG IR-SPGR	196 files, 26.59 MB	Download Files	Review File Details	Review DICOM Tags	Delete Series
5	Axial FLAIR	42 files, 5.69 MB	Download Files	Review File Details	Review DICOM Tags	Delete Series
6	Axial T2 Star	44 files, 5.97 MB	Download Files	Review File Details	Review DICOM Tags	Delete Series
702	T2-weighted trace	59 files, 8.01 MB	Download Files	Review File Details	Review DICOM Tags	Delete Series

Current Warnings

CONFLICT-14: Session already exists with matching files.
 CONFLICT-16: Session already contains a scan (1) with the same UID and number.
 CONFLICT-16: Session already contains a scan (2) with the same UID and number.
 CONFLICT-16: Session already contains a scan (4) with the same UID and number.
 CONFLICT-16: Session already contains a scan (5) with the same UID and number.
 CONFLICT-16: Session already contains a scan (6) with the same UID and number.
 CONFLICT-16: Session already contains a scan (702) with the same UID and number.

[Download All Files](#)

History

Filtering the Session List

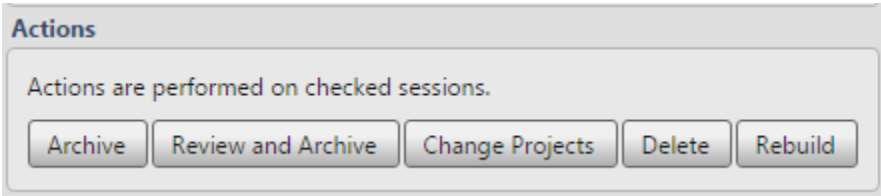
Filters allow you view a subset of the sessions in the prearchive based on

1. Project membership.
2. The date the sessions were uploaded.
3. The date the sessions were scanned.
4. The current status of the sessions
5. Subject or session label.

Filter Field	Usage
Project	The project tokenfield shows only those sessions that are part of one or more selected projects. The tokenfield is case-sensitive, and allows you to add or remove multiple project IDs to your filter.
Upload Date	This filter allows you to view all sessions that were uploaded between two provided dates. The expected date format is "Mmm D, YYYY" where Mmm is a three-letter abbreviation for the month, and D has no leading zero for single-digit dates.
Scan Date	This filter allows you to view all sessions that were scanned between two dates. The expected date format is "Mmm D, YYYY" where Mmm is a three-letter abbreviation for the month, and D has no leading zero for single-digit dates.
Status	The status filter only shows the sessions that have the selected status code. For more information on the meaning of the status code see Session Status .

Subject	The subject tokenfield shows only those sessions that are assigned to one or more selected subjects. The tokenfield is case-sensitive, and allows you to add or remove multiple subject labels to your filter.
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Performing Actions on Sessions




Actions can be performed in bulk on any sessions that are selected in the session list. The operations are:

- **"Archive"** moves the highlighted session(s) from the prearchive to the main XNAT archive.
- **"Review and Archive"** allows you to review the details of a single session before archiving. This uses the Add New Session page template with prepopulated values for project and subject.
- **"Change Projects"** moves the highlighted session to another project.
- **"Delete"** removes the highlighted session from the prearchive.
- **"Rebuild"** refreshes the session XML information.

Depending on the state of the highlighted row some of these buttons may be disabled. See **Restrictions On Operations** for more information.


 The Prearchive allows you to reassign a session label, or reassign a session to a new project, but does not allow you to modify the intended subject for a session. If a session has been improperly assigned to a subject, it will need to be deleted from the prearchive and reuploaded.

Session Statuses in the Prearchive

 A session status that is prefixed by "_" is locked. It indicates that that operation is currently occurring on the session and cannot be interrupted. For example, a status of "_ARCHIVING" indicates that the session is at this moment being moved into XNAT main archive. These sessions can only be reset (which cancels the operation) or deleted.

Status	Description
READY	Any operation can be performed on this session.
RECEIVING	This session could potentially receive more scans.
ARCHIVING	This session has been queued for archiving into the main XNAT archive.
BUILDING	This session has been queued for rebuilding.
MOVING	This session has been queued to moved to another project.
_RECEIVING	This session is locked because it is currently in the process of receiving a scan.
_ARCHIVING	This session is locked because it is currently being moved into the main XNAT archive.
_BUILDING	This session is locked because is currently parsing this sessions' metadata.
_MOVING	This session is locked because it is currently being moved to a new project.
ERROR	The session is in an unknown ERROR state.

Restrictions On Operations

 Full documentation of operations and statuses can be found here: [Prearchive Statuses and Permissions](#)

- Unassigned projects cannot be archived. To move an "Unassigned" project into the main XNAT archive, move it to a existing project and then archive it.
- A session in an "ERROR" state can only be reset or deleted. The nature of the error could be anything from an error parsing the DICOM file (if it is DICOM) to a full filesystem. See the Reset operation for more details.
- A session in the "RECEIVING" state cannot be moved to another project. Since the session is currently receiving more files we have to wait to move it.

- A session in the "MOVING" state cannot be moved to another project since a move is pending on this session.
- A Locked Session can only be deleted or reset.

Using the Prearchive via the XNAT API

The prearchive is now completely accessible via REST. It is possible to add/delete and modify sessions in the prearchive via REST.

Querying Sessions

The complete contents of the prearchive can be queried by issuing a GET to the following URL:

```
/data/prearchive
```

By default this will return the contents of the prearchive in following JSON format:

```
{{"ResultSet":{}}
  {{{{"Result":[{"timestamp":<session-timestamp>,}]
    {{{{"scan_time":<session-scan-time>,}}
      {"project":<project-name>,}}
      {"status":<session-status>,}}
      {"tag":<study-instance-uid>,}}
      {"subject":<subject-name>,}}
      {"name":<session-id>,}}
      {"folderName":<session-label>,}}
      {"uploaded":<session-upload-time>,}}
      {"lastmod":<last-modified-time>,}}
      {"url":<session-uri>,}}
      {"scan_date":<scan-date-of-session> }]}...}}\}\}
```

For example:

```
{{"ResultSet":{}}
  \{ {"Result":[{"timestamp":"20110110_175746",}]
    {"scan_time":"12:45:23",}}
    {"project":"proj_33",}}
    {"status":"READY",}}
    {"tag":"1.3.12.2.1107.5.1.4.1003.30000009030914321258100000007",}}
    {"subject":"subj_10",}}
    {"name":"sess_1964478335",}}
    {"folderName":"0000101_PIB1_1",}}
    {"uploaded":"2011-01-10 17:57:46.0",}}
    {"lastmod":"2011-01-10 17:57:47.0",}}
    {"url":"/prearchive/projects/proj_33/20110110_175746/0000101_PIB1_1",}}
    {"scan_date":"2000-12-08 00:00:00.0"}]}...}}\}\}
```

You can retrieve all sessions in particular project by issuing GET to:

```
/prearchive/projects/{projectID}
```

You can retrieve individual sessions with a GET call to:

```
/prearchive/projects/{projectID}/{timestamp}/{sessionLabel}
```

Uploading Sessions to the Prearchive

Sessions can be added to the prearchive by issuing a GET command to the following URL:

```
/data/services/import?PROJECT_ID={projectID}&SUBJECT_ID={subjectLabel}&EXPT_LABEL={sessionLabel}
&overwrite=append&prearchive=true&inbody=true
```

For example the following curl command uploads the DICOM archive "test.zip" to project "testProj" under subject "testSubj":

```
curl -u <username>:<password> --data-binary @"test.zip" http://localhost:8080/xnat/data/services/import?
PROJECT_ID=testProj&SUBJECT_ID=testSubj&EXPT_LABEL=testSess&overwrite=append&prearchive=true&inbody=true -H
Content-Type:application/zip
```

Deleting Sessions

Sessions can be deleted by issuing a POST command to the following URL:

```
/data/services/prearchive/delete?src={sessionPath}&async={boolean}
```

Parameters:

- **src**: enter the path to the session relative to the prearchive. For example: /prearchive/projects/{projectID}/{timestampDirectory}/{sessionLabel}
- **async**: if "true", XNAT will wait for the operation to finish before the call returns. Set this to true for large operations.

For example, the following curl command will delete session "testSess" with timestamp "20110110_175747" from project "testProjectA":

```
curl -d "src=/prearchive/projects/testProjectA/20110110_175747/testSess&async=false" -u admin:admin
http://localhost:8080/xnat/data/services/prearchive/delete
```

Moving Sessions

Sessions can be moved from one project to another within the prearchive by issuing the following POST request:

```
/data/services/prearchive/move?src={sessionPath}&newProject={projectID}&async={boolean}
```

Parameters:

- **src**: enter the path to the session relative to the prearchive. For example: /prearchive/projects/{projectID}/{timestampDirectory}/{sessionLabel}
- **newProject**: enter the ID of the new destination project.
- **async**: if "true", XNAT will wait for the operation to finish before the call returns. Set this to true for large operations.

For example, the following curl command will move session "testSess" with timestamp "20110110_175747" from project "testProjectA" to "testProjectB":

```
curl -d "src=/prearchive/projects/testProjectA/20110110_175747/testSess&newProject=testProjB&async=false" -u
admin:admin http://localhost:8080/xnat/data/services/prearchive/move
```

Rebuilding / Resetting Sessions

The session.xml for a session can be rebuilt using the following POST request:

```
/prearchive/projects/{projectID}/{timestamp}/{sessionLabel}?action=build
```

Parameters:

- **action:** "Build" must be specified.

For example, the following curl command will rebuild the session.xml for session "testSess" with timestamp "20110110_175747" from project "testProjectA":

```
curl -d "action=build" -u admin:admin http://localhost:8080/xnat/data/prearchive/projects/testProjectA/20110110_175747/testSess
```