XNAT API Documentation

This Confluence wiki space exists to display XNAT API and API for XNAT plugins in an interactive way. It also contains simple tutorials on using the XNAT API to communicate with your XNAT and perform many operations.

XNAT REST API Directory

This table contains a directory of API that can be found in Core XNAT.

> ✅ **/xapi vs /data vs /data/archive vs /REST**
>
> In legacy XNAT REST APIs, the following prefixes can be used interchangeably:
>
> - /REST
> - /data
> - /data/archive
>
> These prefixes are **not** interchangeable with Swagger-enabled XAPI rest paths. These can only use:
>
> - /xapi

XNAT Administration

Site Administration

Site-wide Configuration API	**/xapi/siteConfig**
Preference Service API	**/xapi/prefs**
Data Type Schema API	**/xapi/schemas**
Legacy XNAT Site Configuration API	**/data/config**

System Administration

XNAT Archive API	**/xapi/archive**
System Notifications API	**/xapi/notifications**
Node / Task Management API	**/xapi/xnatTask**

User Administration

User Management API	**/xapi/users**
User Management API (Deprecated)	**/data/users**
User Resources API	**/data/user/cache/resources**
Project User Access API	**/data/projects/ID/users**
Project Access Request API	**/data/pars** **/data/projects/ID/pars**

XNAT Data Management API

Working With Projects

Project API	**/data/projects**
Project Attributes API	**/data/projects/{ID}/accessibility** **/data/projects/{ID}/current_arc** **/data/projects/{ID}/prearchive_code** **/data/projects/{ID}/quarantine_code** **/data/projects/{ID}/scan_types**
Project Investigators API	**/xapi/investigators**
Project User Access API	**/data/projects/{ID}/users**
Project Access Request API	**/data/pars** **/data/projects/{ID}/pars**
Project Configuration API	**/data/projects/{ID}/config**
Project Pipeline Management API	**/data/projects/{ID}/pipelines**

> ℹ️ **Tutorials:**
>
> - Using the XNAT API: How to Configure Scan Quality Labels

Working with Subjects, Image Sessions and other Subject Assessors

Subject API	**/data/subjects** **/data/.../subjects**

User Authentication Services

User Session Management API	**/data/JSESSION**
User Auth Service API	**/data/services/auth**
User Alias Token API	**/data/services/tokens**

XNAT Plugin Administration

Plugin API	**/xapi/plugins**
Plugin Open URL Authorization API	**/xapi/pluginOpenUrls**

UI configuration:

UI Element Spawner API	**/xapi/spawner**
UI Theme API (beta)	**/xapi/theme**

DICOM Connections:

DICOM SCP API	**/xapi/dicomscp**
DICOM SCP API (Deprecated)	**/data/services/dicomscp**
DICOM Anonymization Settings API	**/xapi/anonymize**
Connected Scanners API (Deprecated)	**/data/scanners**

Other Services:

File Mover Service API	**/data/services/move-files**
Mail Send API	**/data/services/mail/send**
Audit Service API	**/data/services/audit**
Catalog Refresh API	**/data/services/refresh/catalog**
Email Verification API	**/data/services/sendEmailVerification**
Features API (Deprecated)	**/data/services/features**

Experiment API ("Subject Assessors" API)	**/data/experiments** **/data/.../experiments**
Experiment Quarantine API	**/data/.../experiments/status**
Image Session Scans API	**/data/.../experiments/{ID}/scans**
Image Assessor API	**/data/.../experiments/{ID}/assessors**
Data Sharing API	**/data/projects/{ID}/.../projects**

ⓘ **Tutorials:**

- How to Create Subjects with the XNAT REST API
- How To Download Files via the XNAT REST API
- XNAT REST XML Path Shortcuts

Storing And Retrieving Resource Files

Project Resources and Files API	**/data/projects/{ID}/resources** **/data/projects/{ID}/files**
Subject Resource API	**/data/.../subjects/{ID}/resources** **/data/.../subjects/{ID}/files**
Experiment Resource API	**/data/.../experiments/{ID}/resources**
Image Scan Resource API	**/data/.../experiments/{ID}/scans/{ID}/resources**
Image Assessor Resource API	**/data/.../assessors/{ID}/{IN | OUT}/resources**

ⓘ **Tutorials:**

- How to Upload Image Session Files with the REST API

Using and Managing the Archive & Prearchive

Image Session Import Service API	**/data/services/import**
Image Session Archive Service API	**/data/services/archive**
Prearchive API	**/data/services/prearchive**
Image Session Upload Status API	**/data/status**
DICOM Dump Service API	**/data/services/dicomdump**

XNAT Search API

XNAT Search API	**/data/search**
Stored Search API	**/data/search/stored**

ⓘ

XNAT Data Processing

XNAT Pipeline API	**/data/projects/{ID}/pipelines**
XNAT Workflow API	**/data/workflows**

Related: Container Service API

XNAT Automation API

Event Handler API (beta)	**/xapi/eventHandler**
XNAT Automation Service API (beta)	**/xapi/automation**

Deprecated API

ⓘ These API are from legacy XNAT versions and have been replaced.

Site Administration

- XNAT Site Configuration API – `/REST/config`
- XNAT Site Settings API – `/REST/services/settings`
- XNAT Log Reporting API – `/REST/services/logging`
- XNAT Version - `/REST/version`

Search

- Search Fields - `/REST/search/fields`