

# Batching Actions on Scans with the Selectable Table Plugin

✓ The XNAT Selectable Table has been released as a plugin coinciding with the release of XNAT 1.7.3. In order to use this UI, you will need to download and install this plugin.

The advent of Container Services gave XNAT users the ability to run a processing command on a single scan, but the XNAT UI offered no way to access scan-level controls. The Selectable Table plugin was developed in order to expose those controls to users, but it also offers some basic conveniences for core XNAT uses. This documentation offers a quick run-through of the things you can do from inside this table, both on individual scans and in bulk.

⚠ Some functionality is only partially-enabled. Future updates are planned to this plugin to enhance functionality. We expect to merge this functionality directly into core XNAT further down the development roadmap.

## UI Overview

The screenshot shows a table titled "Scans" with columns: Scan, Type, Series Desc, Usability, Files, Note, and Run. The table contains several rows of scan data. Annotations in red text and boxes highlight various UI features:

- SELECT / DESELECT ALL SCANS:** A checkbox in the top left corner of the table.
- BULK ACTIONS (ONLY USABLE WHEN SCANS ARE SELECTED):** A menu bar above the table with buttons for "Open In Ximg Viewer" and "Download".
- SELECT INDIVIDUAL SCANS:** A vertical column of checkboxes on the left side of the table rows.
- INLINE SCAN ACTIONS:** A set of icons (show details, open image viewer, download, delete) appearing in the first row of the table.
- INLINE SCAN ACTIONS:** An "EDIT NOTE" icon in the "Run" column of the first row.

Scan	Type	Series Desc	Usability	Files	Note	Run
1	3 Plane Localizer	3 Plane Localizer	usable	3.9 MB in 18 files		
2	Sag IR-SPGR	Sag IR-SPGR	usable	51.1 MB in 197 files		
4	Accelerated SAG IR-SPGR	Accelerated SAG IR-SPGR	usable	51.1 MB in 197 files		
5	Axial FLAIR	Axial FLAIR	usable	10.9 MB in 43 files		
6	Axial T2 Star	Axial T2 Star	usable	11.5 MB in 45 files		
702	T2-weighted trace	T2-weighted trace	usable	15.4 MB in 60 files		

Total: 143.9 MB in 560 files

## Actions on Single Scans

When the user hovers over an individual scan row in the selectable table, a set of inline icons appears that allows the user to perform actions immediately on that scan.

### Show Scan Details

Scan details used to appear as hidden rows within the table. They have been moved into a popup dialog. These dialogs can be repositioned around the page, and users can open multiple dialogs to compare scans side-by-side.

PROJECT: Nifti\_Proc > SUBJECT: GSU001 > GSU001 v

MR Session: GSU001\_v00\_mr

Details Projects

Accession #: XNAT\_E00014  
 Date Added: 08/04/2017 18:01:04 (admin)  
 Date: 03/24/2011  
 Time: 15:41:36  
 Scanner: GE MEDICAL SYSTEMS Signa  
 Acquisition Site: GSU

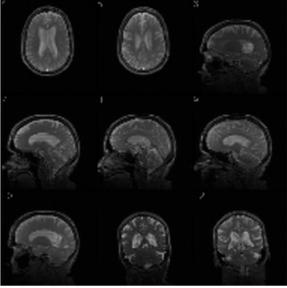
**Scans**

Bulk Actions: Open In Ximg Viewer Download

Scan	Type
<input type="checkbox"/> 1	3 Plane Localizer
<input type="checkbox"/> 2	Sag IR-SPGR
<input type="checkbox"/> 4	Accelerated SAG IR-SPGR
<input type="checkbox"/> 5	Axial FLAIR
<input type="checkbox"/> 6	Axial T2 Star
<input type="checkbox"/> 702	T2-weighted trace

Total: 143.9 MB in 560 files

Scan 1



Image

Quality usable  
 Series Desc 3 Plane Localizer  
 Frames 15  
 Image Type ORIGINAL\PRIMARY\OTHER  
 Coil 8HRBRAIN  
 Field Strength 3.0  
 Vox. Res. 1.0156, 1.0156, 5.0  
 FOV 256 x 256  
 TR 5.492  
 TE 1.68  
 TI 0.0  
 Flip 30  
[View DICOM Headers](#)

Click in the header to move this dialog around the page

Cancel OK

## Open Image Viewer

Users may want to directly view a given scan in the image viewer. With the default Ximg viewer, this behavior is only partially supported. You can open the viewer from the scan table, but you cannot preload the selected scan. A future update to the viewer would enable this functionality.

## Download Scan

Users can go directly from the scan table to the Download Images UI. In XNAT 1.7.3, this behavior is only partially supported – in a near-term release image downloading for specific scans will be streamlined.

## Delete Scan

Users with appropriate project permissions will be able to see the "delete" icon in their inline actions and be able to delete a given scan from a session record, and delete scan files from the file system, directly from the scan table.

Active Processes

**Delete Scan 1** [X]

This will delete scan 1 from this image session. You can choose whether to delete all scan files from the filesystem as well.

Delete Scan Files  No  Yes (Default)

Cancel Delete Scan

Details Projects

Accession #: XNAT\_E00001  
 Date Added: 07/30/2017 18:27:15 (admin)  
 Date: 03/24/2011  
 Time: 15:41:36  
 Scanner: GE MEDICAL SYSTEMS Signa  
 Acquisition Site: GSU

Scans

Bulk Actions: Open In XImg Viewer Download

Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/> 1	3 Plane Localizer	3 Plane Localizer	usable	3.9 MB in 18 files	This is a note field. It can be...	
<input type="checkbox"/> 2	Sag IR-SPGR	Sag IR-SPGR	usable	51.1 MB in 197 files		
<input type="checkbox"/> 4	Accelerated SAG IR-SPGR	Accelerated SAG IR-SPGR	usable	51.1 MB in 197 files		
<input type="checkbox"/> 5	Axial FLAIR	Axial FLAIR	usable	10.9 MB in 43 files		
<input type="checkbox"/> 6	Axial T2 Star	Axial T2 Star	usable	11.5 MB in 45 files		
<input type="checkbox"/> 702	T2-weighted trace	T2-weighted trace	usable	15.4 MB in 60 files		
<b>Total:</b> 143.9 MB in 560 files						

## Edit Note

Users can create or update a note on a given scan directly from the scan table, instead of having to load the "Edit Scan" UI. The action icon to edit scan notes is located within the note field for each scan in the Scan Table.

MR Session: GSU001\_v00\_mr

**Edit Note for Scan 1** [X]

Note

Cancel Update Note

Details Projects

Accession #: XNAT\_E00001  
 Date Added: 07/30/2017 18:27:15 (admin)  
 Date: 03/24/2011  
 Time: 15:41:36  
 Scanner: GE MEDICAL SYSTEMS Signa  
 Acquisition Site: GSU

Scans

Bulk Actions: Open In XImg Viewer Download

Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/> 1	3 Plane Localizer	3 Plane Localizer	usable	3.9 MB in 18 files	This is a note field. It can be used to store qualitative review details, or for anything you can think of.	
<input type="checkbox"/> 2	Sag IR-SPGR	Sag IR-SPGR	usable	51.1 MB in 197 files		
<input type="checkbox"/> 4	Accelerated SAG IR-SPGR	Accelerated SAG IR-SPGR	usable	51.1 MB in 197 files		
<input type="checkbox"/> 5	Axial FLAIR	Axial FLAIR	usable	10.9 MB in 43 files		
<input type="checkbox"/> 6	Axial T2 Star	Axial T2 Star	usable	11.5 MB in 45 files		
<input type="checkbox"/> 702	T2-weighted trace	T2-weighted trace	usable	15.4 MB in 60 files		
<b>Total:</b> 143.9 MB in 560 files						

## Run Container (Requires the Container Services Plugin)

If your XNAT has the [Container Service](#) plugin installed and a processing command configured to be run on individual scans, users can run that command directly from the scan table. A caret will appear in the right-most "Run" column listing available commands that can be executed.

## Scans

Bulk Actions: Open In Ximg Viewer Download Run Container							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	1	3 Plane Localizer	3 Plane Localizer	usable	3.9 MB in 18 files	This is a note field. It can be	Run dcm2nix on a Scan Run the debug container
<input type="checkbox"/>	2	Sag IR-SPGR	Sag IR-SPGR	usable	51.1 MB in 197 files		
<input type="checkbox"/>	4	Accelerated SAG IR-SPGR	Accelerated SAG IR-SPGR	usable	51.1 MB in 197 files		
<input type="checkbox"/>	5	Axial FLAIR	Axial FLAIR	usable	10.9 MB in 43 files		
<input type="checkbox"/>	6	Axial T2 Star	Axial T2 Star	usable	11.5 MB in 45 files		
<input type="checkbox"/>	702	T2-weighted trace	T2-weighted trace	usable	15.4 MB in 60 files		

Total: 143.9 MB in 560 files

## Bulk Actions on Scans

Using the checkboxes in the left-most column of the Scan Table, users can select one or more scans to perform bulk actions on. As with the [Container Service](#) plugin, additional functionality may be able to be added here over time by XNAT developers.

### Scans

Bulk Actions: Open In Ximg Viewer Download Run Container							
<input checked="" type="checkbox"/>	Scan	Type	Usability	Files	Note	Run	
<input checked="" type="checkbox"/>	1	3 Plane Localizer	usable	3.9 MB in 18 files	This is a note field. It can be...		
<input checked="" type="checkbox"/>	2	Sag IR-SPGR	usable	51.1 MB in 197 files			
<input checked="" type="checkbox"/>	4	Accelerated SAG IR-SPGR	usable	51.1 MB in 197 files			
<input checked="" type="checkbox"/>	5	Axial FLAIR	usable	10.9 MB in 43 files			
<input checked="" type="checkbox"/>	6	Axial T2 Star	usable	11.5 MB in 45 files			
<input checked="" type="checkbox"/>	702	T2-weighted trace	usable	15.4 MB in 60 files			

Total: 143.9 MB in 560 files

## Installing and Configuring the XNAT Selectable Table Plugin

Installing the Selectable Table plugin is very easy. All that is required is to download the latest JAR file from the release repository, drop it in your XNAT plugins directory, and restart Tomcat. For reference, see [Deploying Plugins in XNAT 1.7](#).

### Download the latest Selectable Table Plugin JAR:

In its current release, there is no configuration necessary for the Selectable Table plugin. It is only used in image session report pages. In future releases, it may be usable on experiment listings for the Subject page, in data listings on searches, and nearly anywhere actions can be taken on tabular data.

## Compatibility with Visits and Protocols



This plugin is not currently compatible with the Visits and Protocols plugin. This will be addressed in a future release.