

NBIA 7.0 GA Community Version

May 6, 2019

Community Version

- The Community Version allows organizations to utilize the software that runs TCIA for their own needs
 - All TCIA branding is removed
 - Default is the NCI brand
 - Instructions provided to create a custom branded version
 - Generally several TCIA releases are rolled up into a single community release to conserve resources

Improvements

- New Search Interface
- Solr Fielded Search
- NBIA Data Retriever (Previously Download Manager)
- Improved Java Support
- Load Balancing Testing

New Search Interface

The screenshot displays the National Biomedical Imaging Archive (NBIA) search interface. At the top, there is a navigation bar with the NBIA logo and links for Home, Access The Data, Tools, and Help. Below this is a search bar with buttons for Search, Login, Download, Share, and Cart. The main content area is divided into two columns. The left column contains search filters for Collections and Image Modality. The right column features a search input field with a Clear button, a Summary tab, and a table of search results. The table has columns for Collection ID, Subject ID, Studies, and Series. Below the table, there is a 'Show 10 entries' control.

- Updated interface using latest tools and standards
- Easily Share Data
 - Manifest Files
 - URLs
- Performance improvements
 - Caching REST interface minimizes server workload and bandwidth requirements
- Standalone Design
 - Can be rapidly updated and deployed without needing server upgrades

NBIA Data Retriever

Mac App Store Preview

Open the Mac App Store to buy and download apps.



NBIA Data Retriever 4+

A Data Retriever for NBIA/TCIA

Qinyan Pan

Free

- NBIA Download Manager has been replaced by the Data Retriever
 - Standalone installs improve Mac experience, and provide for the retirement of Java Web Start
- Now available at Mac Store
- Install packages for Windows and Linux
- Automated retrying of failed series
- Error report creation for any download issues
- Customizable help desk linkage

Fielded Text Search

The screenshot displays a search interface with two tabs: 'Simple Search' and 'Text Search'. The 'Text Search' tab is active, showing a search input field with the text 'Patient Position:erect' and two buttons: 'Clear' and 'Search'. To the right, a search bar contains the same text and a 'Clear' button. Below the search bar, there are two tabs: 'Summary' and 'Search Results'. The 'Search Results' tab is active, showing 'Showing 1 - 5 of 5 Subjects' and 'sortColumns: subject'. A table with the following columns is displayed: 'Cart' (with a shopping cart icon), 'Collection ID', 'Subject ID' (with an upward arrow), and 'Hit'. The table contains two rows of results:

Cart	Collection ID	Subject ID	Hit
>	LIDC-IDRI	LIDC-IDRI-0039	Patient Position: ERECT
>	LIDC-IDRI	LIDC-IDRI-0056	Patient Position: ERECT

- Text Search can search specific fields using Lucene syntax
 - Field:Value
- Can use either DICOM Tag or Name

Improved Java Support



- Prepared for migration to Java 11 as Java 8 support ends
- Upgrade to Jersey 2

Load Balancing



- NBIA has completed load balancing testing using NGINX
- In production at TCIA

More Information

- For more information see the release announcement on the NCI wiki
- <https://wiki.nci.nih.gov/display/NBIA/NBIA+7.0+GA+Community+Version+Release+Announcement>
- Detailed [release notes](#) and a [user's guide](#) is available.
- For groups interested in installing NBIA 7.0 GA locally, [download the installation file](#) and consult the [NBIA Installation Guide](#). In case of questions, contact the NCI application support team a by email (NCIAppSupport@nih.gov) or phone (+1 240-276-5541 or toll free: +1 888-478-4423)