

NBIA 5.2 release announcement

Dear NBIA Users,

We're pleased to announce the release of version 5.2 of the National Biomedical Imaging Archive (NBIA), available at <http://imaging.nci.nih.gov>. This release significantly improves searching, security, performance and has numerous improvements and bug fixes to the QC Tool as explained below.

Modality Specific Search

The NBIA Portal now has modality specific searching capabilities. When a covered modality is selected in dynamic search, the associated DICOM tags are made available for searching

TOOLS LOGIN SEARCH IMAGES MANAGE DATA BASKET HELP

Dynamic Search

*All searches are conducted at the series level
*Default equals "All"

SEARCH SIMPLE SEARCH ADVANCED SEARCH

Element	Operator	Value	Action
Modality	equals	MR	

Criteria

Group MR Image

--Please Select-- --Please Select--

Angio Flag
Echo Time
ImageType
Imaged Nucleus
Inversion Time
Magnetic Field Strength
Repetition Time
SAR
Scanning Sequence
Sequence Name
Sequence Variant
Trigger Time
dB/dt

SUBMIT RESET

QC Tool Improvements

Based on stakeholder feedback the QC Tool has been improved in several ways including make the tool more stable and robust allowing multiple users to access the tool concurrently

QC Tool Dynamic Search

QC Tool

Search Controls

classic Dynamic

CRITERIA SELECTED

QC Status ☒ Not Yet Reviewed ☐ Visible ☐ Not Visible ☐ To Be Deleted

Most recent submission date From: To:

Element	Operator	Value	Action
Patient Gender	equals	M	

SUBMIT RESET

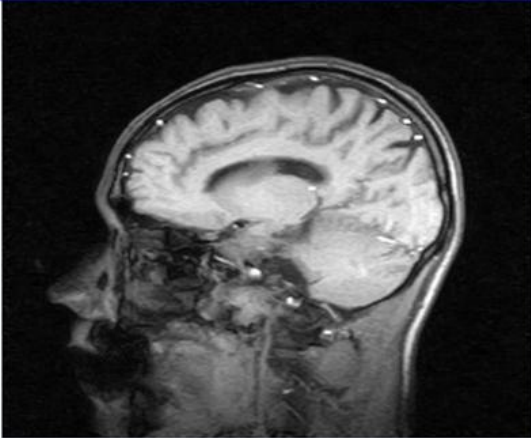
Construct Criteria

Group --Please Select--

--Please Select-- --Please Select--

AND OR

QC Tool DICOM Sequence Display



⏮ ⏪ ⏩ ⏭

⏮ ⏪ ⏩ ⏭

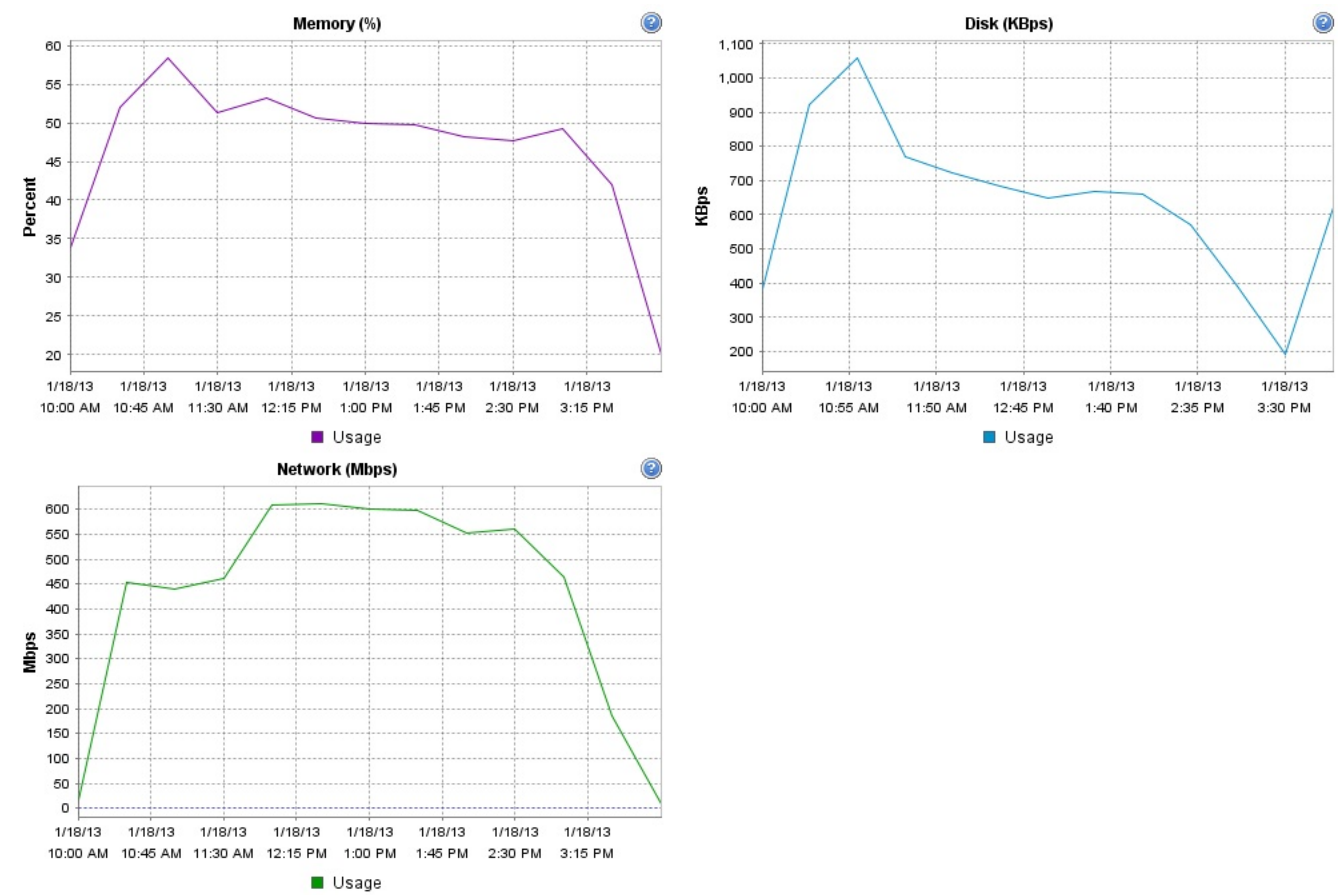
Warning: Especially on low-bandwidth connection, please ensure your browser is configured to cache data on SSL connections. Otherwise, the performance of the slide show can be poor. For example, to enable caching on Firefox, set browser.cache.disk_cache_ssl to true. If viewing Ultrasound Cine Loop, note that it is not playing at acquired frame rate - please download to local computer and run with separate DICOM viewer.
[Click here to preload the entire slide show.](#)

Series Details

(0028,0301)	Burned In Annotation	NO
(0028,1050)	Window Center	193
(0028,1051)	Window Width	387
(0028,2110)	Lossy Image Compression	00
(5200,9230)	Per-frame Functional Groups Sequence	
>(0018,9042)	MR Receive Coil Sequence	
>>(0018,9045)	Multi-Coil Definition Sequence	
>>>(0018,9047)	Multi-Coil Element Name	CT
>>>(0018,9048)	Multi-Coil Element Used	YES
>>(0018,9045)	End Multi-Coil Definition Sequence	
>(0018,9042)	End MR Receive Coil Sequence	
>(0018,9115)	MR Modifier Sequence	
>>(0018,9021)	T2 Preparation	NO
>>(0018,9026)	Spectrally Selected Excitation	NONE
>>(0018,9069)	Parallel Reduction Factor in-plane	1.0
>>(0018,9077)	Parallel Acquisition	NO
>>(0018,9155)	Parallel Reduction Factor out-of-plane	1.0
>(0018,9115)	End MR Modifier Sequence	
>(0018,9117)	MR Diffusion Sequence	
>(0018,9117)	End MR Diffusion Sequence	
(5200,9230)	End Per-frame Functional Groups Sequence	

Performance Improvements

NBIA has been successfully tested with 20 concurrent users running a total of 20 sessions each downloading 16 gigabytes of data. The improvements included code changes to facilitate high data throughput as well as documenting server requirements and JBoss settings in [NBIA Performance Tuning](#) for adopters looking to have similar capabilities.



CTP Submission Information Improvements

The NBIA Team has collaborated with John Perry the CTP developer to improve the feedback available from CTP on the progress of submissions in the database verifier which shows both the items to be processed and the conformation of items processed.

DatabaseVerifier

This page lists the studies that have been processed. If the unverified queue size is zero, all the objects have been successfully transmitted to the destination, stored, and entered into the database. If the unverified queue size is non-zero, monitor the size to see if it is changing. To check on individual objects in a specific study, click the value in the Instances column. On the next page, any object with a blank in the Entry Date field has not been confirmed to be in the database.

Date	Patient ID	Patient Name	Instances	Unverified
20130930	Test-2570127383	338283	1	0
20130930	Test-2158715035	127026	30	0
20130930	Test-3754395488	174603	393	0
20130930	Test-2570127383	338283	1	0
20130930	Test-2151197793	324104	1	0
20130930	Test-1781755951	318900	414	0
20130930	Test-2151197793	324104	1	0
20130930	Test-7825351040	341343	1	0
20130930	Test-2158715035	127026	1	0
20130930	Test-3380473703	201184	1	0
20130930	Test-7701892649	205950	30	0
20130930	Test-2151197793	324104	1	0
20130930	Test-7825351040	341343	30	0
20130930	Test-1722138425	159308	30	0
20130930	Test-7701892649	205950	690	0
20130930	Test-1158712476	708756	407	0
20130930	Test-1686402857	228874	416	0
20130930	Test-2882847685	101718	30	0
20130930	Test-7825351040	341343	418	0
20130930	Test-2151197793	324104	689	0
20130930	Test-7825351040	341343	1	0

	Date search: <input type="text"/>	Go
Prev Date	PtID search: <input type="text"/>	Go

Unverified queue size = 22

[Clear the unverified queue](#)

DatabaseVerifier

Study UID: 8818.88.218047059783213820415262965689262172395

Process date: 20130930

Patient ID: Test-2570127383

Patient name: 338283

SOP Instance UID	Submit Date	Entry Date
8818.88.149027025029099639339905892165823417404	2013.09.30 11:18:56	2013.09.30 11:19:08
8818.88.251446191307401031855174410641497837423	2013.09.30 11:19:25	2013.09.30 11:19:43
8818.88.292960737360041687743292440155638040843	2013.09.30 11:18:51	2013.09.30 11:19:04
8818.88.137897971853374665469073002224102730997	2013.09.30 11:19:11	2013.09.30 11:19:24
8818.88.224553985336085600855084129387554296433	2013.09.30 11:19:04	2013.09.30 11:19:17
8818.88.208525857627002004221073109185366069388	2013.09.30 11:18:47	2013.09.30 11:18:59
8818.88.337057852707760508252589635280269012836	2013.09.30 11:19:28	2013.09.30 11:19:46
8818.88.245531637618735055337928122207830408387	2013.09.30 11:19:12	2013.09.30 11:19:25
8818.88.114733414945186775340891565325121129770	2013.09.30 11:19:20	2013.09.30 11:19:34
8818.88.179761698992962380478087801544297529004	2013.09.30 11:19:11	2013.09.30 11:19:24
8818.88.271553351461564223574944690007603215669	2013.09.30 11:18:58	2013.09.30 11:19:10
8818.88.185933227697453252675951618657714161310	2013.09.30 11:18:46	2013.09.30 11:18:58
8818.88.169408069737901828832973277412718760561	2013.09.30 11:19:21	2013.09.30 11:19:35
8818.88.128921295534025443289338499102607172878	2013.09.30 11:19:13	2013.09.30 11:19:27
8818.88.176844494145947097289276291947939848658	2013.09.30 11:18:48	2013.09.30 11:19:00
8818.88.153712266239436401224513868887443171517	2013.09.30 11:18:51	2013.09.30 11:19:03
8818.88.53176102853231584645769280771340289069	2013.09.30 11:18:47	2013.09.30 11:19:00
8818.88.321081477200391063336276765169285279381	2013.09.30 11:18:57	2013.09.30 11:19:08
8818.88.328805947560886453432152967585351996451	2013.09.30 11:19:06	2013.09.30 11:19:20
8818.88.234346999997673436929999999999999999999	2013.09.30 11:18:50	2013.09.30 11:19:10

Improved Security

NBIA has resolved several security issues discovered by AppScan

Section 508 Compliance

The NBIA has improved compliance with Section 508 for people with disabilities.

For more information:

Detailed release notes can be found [here](#).

For groups interested in installing NBIA 5.2 locally, the installation guide is located here [NBIA 5.2 Installation Guide](#)

As always, support is available from [Application Support](#).