

# NBIA 6.1 release announcement

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The NBIA team is pleased to announce the release of version 6.1 of the [National Biomedical Imaging Archive \(NBIA\)](#). This release adds a DICOM web viewer, allows REST access to private collections, updates CSM to 5.1, adds WADO API calls to both public and private collections, adds an initial C-FIND and C-GET DICOM API, adds a workflow module that can update remote systems via REST, improves the user interface, as well as numerous bug fixes and minor enhancements.

## Oviyam 2.1 Integration

Oviyam 2.1 has been integrated into NBIA as a DICOM web viewer. The link to DICOM Web Viewer in the search results and QA modules opens Oviyam at the study level. Oviyam has been tested with NBIA using the FireFox browser.



## Rest Access to Private Collections

The NBIA REST API now supports secure access to private resources in the Client Credentials authorization flow with Spring Security and OAuth2.

### Access Private Resources with NBIA REST Services

Starting with NBIA Release 6.1, the NBIA REST API supports secure access to private resources in the Client Credentials authorization flow with Spring Security and OAuth2. The Client Credentials authorization flow is also known as "signed fetch" or 2-legged OAuth. The following figure illustrates the typical use case for REST API calls made on the Internet using using 2-legged OAuth. For more information regarding the specific workflow, consult the OAuth2 specification at <http://tools.ietf.org/html/rfc6749>.

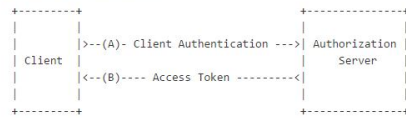


Figure 1: Client Credentials Flow

The flow illustrated in the preceding Figure includes the following steps:

- (A) The client authenticates with the authorization server and requests an access token from the token endpoint.
- (B) The authorization server authenticates the client, and if valid, issues an access token.

This token can then be used on subsequent requests to authorize access to resources. The NBIA REST Server also supports token expiration and extension token by refresh.

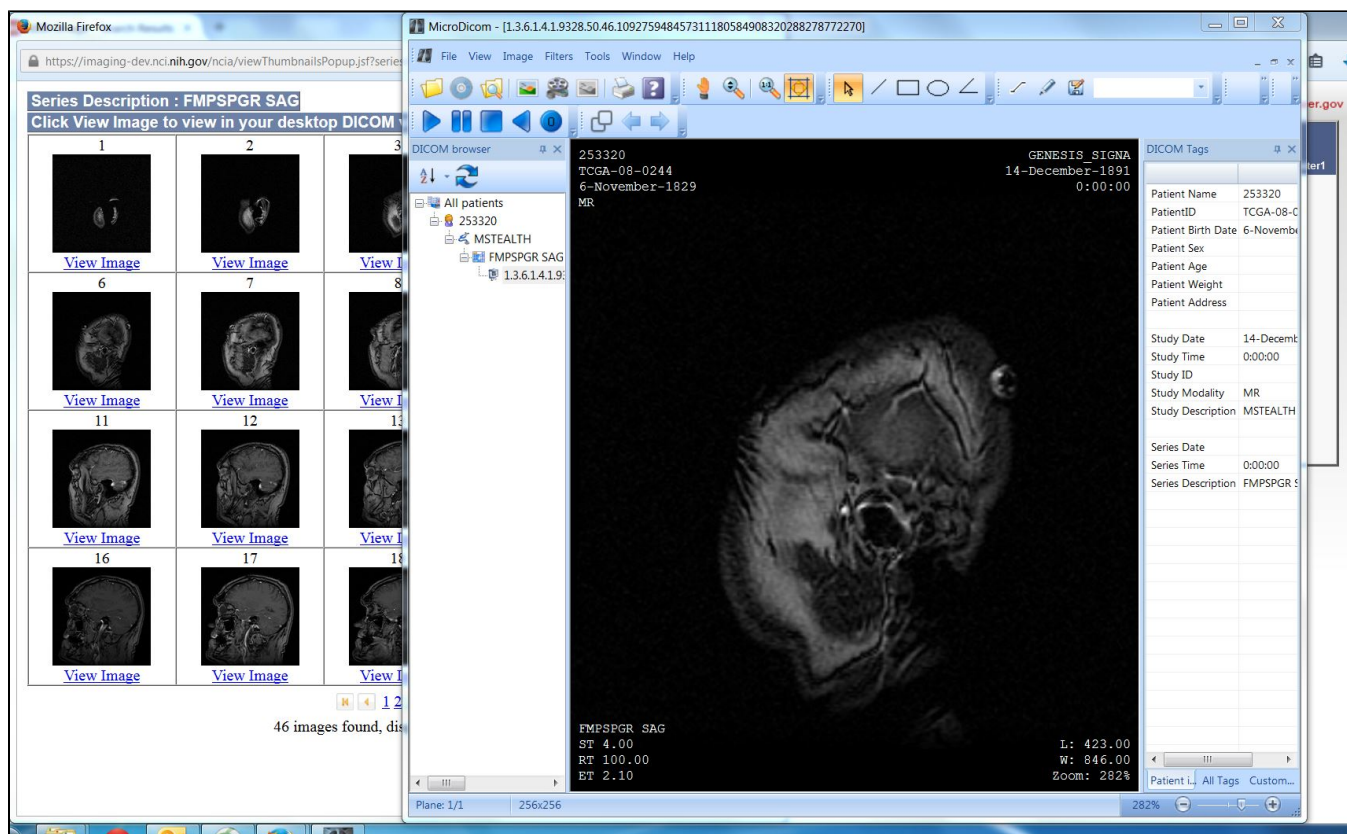
## CSM 5.1

CSM has been updated to version 5.1 with additional encrypted fields for better security.



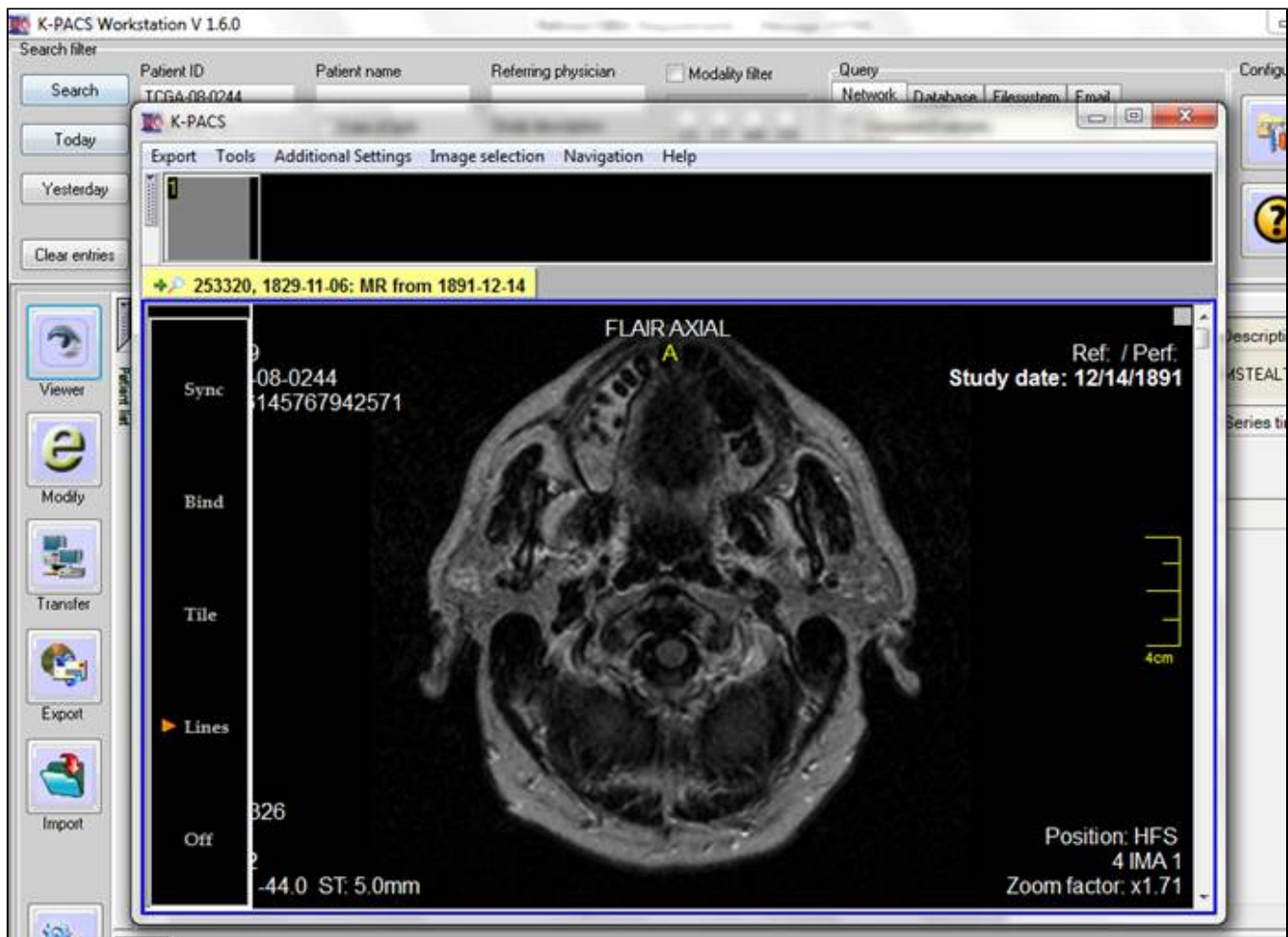
## WADO API

A WADO API has been added to NBIA that allows access to both public and private collections. The API is utilized within the application to allow the user's own DICOM tool to be activated when browsing thumbnails and selecting to view the image.



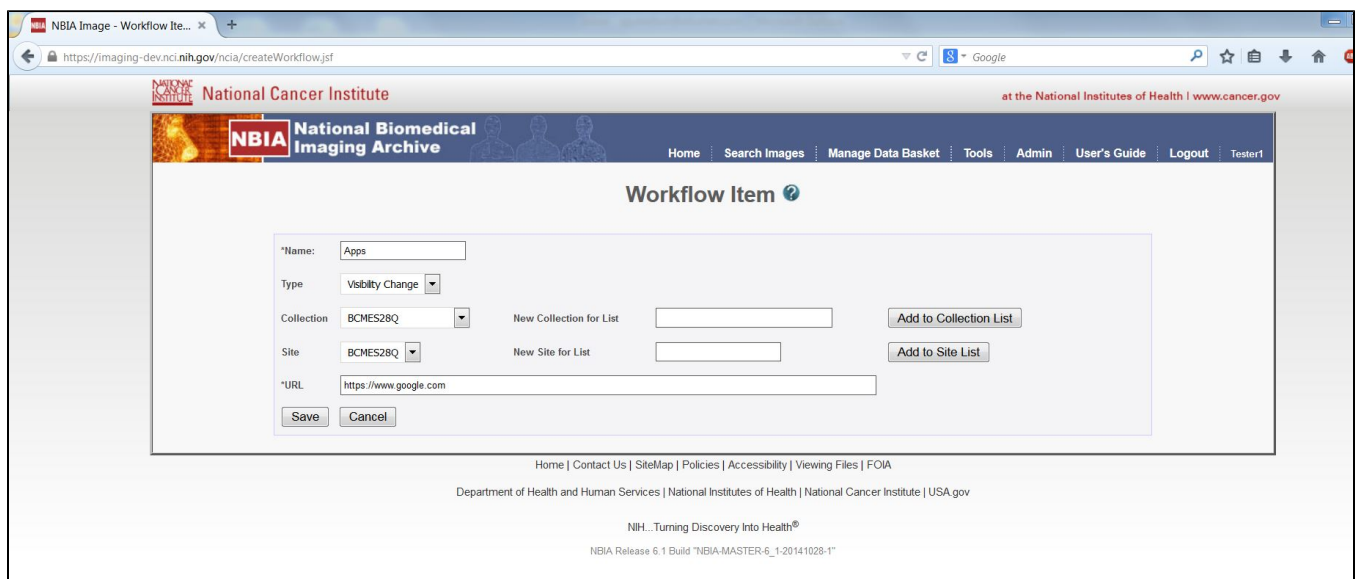
## C-FIND and C-GET

NBIA now has an initial C-FIND and C-GET for public collections. They can be tested with a PACS client.



## Workflow Module

NBIA has a workflow module that can be configured to notify remote systems via REST in changes of status for an image series for a given collection and site.



## Documentation and Support

Detailed [release notes](#) and a [user's guide](#) are available.

For groups interested in installing NBIA 6.1 locally, consult the [NBIA 6.1 Installation Guide](#).

#### Getting Support

- Email: [NCIAppSupport@nih.gov](mailto:NCIAppSupport@nih.gov)
- Call: 240-276-5541