# AIM on ClearCanvas Workstation 3.0 User's Guide

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This guide explains how to use Annotation and Image Markup (AIM) on the ClearCanvas Workstation. The information presented explains key procedures for creating and working with AIM annotation objects. The intended audience for this guide is a biomedical researcher familiar with the AIM information model.

The ClearCanvas workstation also has an extensive user's guide that can be found on the main menu at Help > User's Guide.

For more information on AIM and ClearCanvas, go to the following links:

- https://cabig.nci.nih.gov/tools/AIM
- http://www.clearcanvas.ca/dnn 4

## Setting AIM Data Service Options

The purpose of AIM on the ClearCanvas workstation is to connect to multiple AIM Data Services that can accommodate the AIM 3.0 information model. As a result, these data services are collectively known as the AIM 3.0 Data Service.

While by default the workstation is not configured to connect to any AIM 3.0 Data Services, it can use the AIM 3.0 Data Service. An end user can enter any valid URL for the AIM Data Service and click the **Save** button to have that URL remain on the workstation for future sessions.



Click to configure the AIM Data Service. You can access the data service configuration from the explorer toolbar, shown in Figure 1, or through an opened study's toolbar, shown in Figure 2.

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My Studies     My Servers	Patient ID	Last Name	<ul> <li>First Name</li> </ul>	DOB	Accession Number
Example Group     Server     Example Server	TCGA-06-0138 467677812	171016			

Figure 1. Access AIM Data Service Options from Explorer Toolbar

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Figure 2. Access AIM Data Service Options from an Opened Study

## Setting AIM Options

To access the AIM settings, on the ClearCanvas menu, select **Tools > Options > AIM**. When finished, click **Apply** to commit the changes. This is demonstrated in Figure 3.

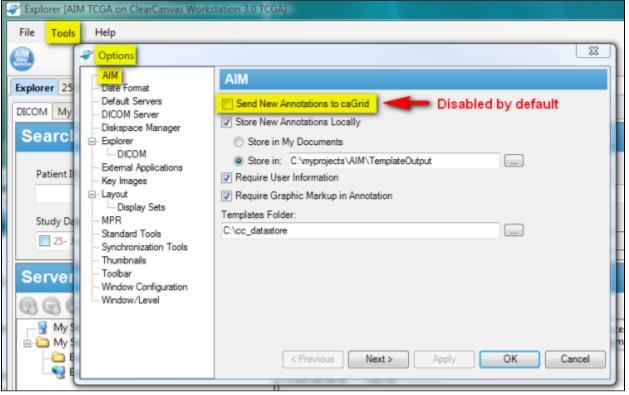


Figure 3. AIM Options

### Sending AIM XML documents to the AIM 3.0 Data Service

By default, the setting for sending AIM XML documents to the AIM 3.0 Data Service is disabled. You must enable this option in order to have new AIM XML documents sent to the AIM Data Service. If you have neither set the AIM Data Service destination nor enabled the **Send New Annotations to caGrid** option, your existing AIM XML documents will not be sent to the AIM 3.0 Data Service.

#### A user may change the following AIM options, which are described in Table 1.

Option	Description
Send New Annotations to caGrid	If selected, the workstation will send new annotations to the assigned caGrid location. Also see Setting AIM Data Service Options.
Store New Annotations Locally	If selected, the workstation will store a copy of new annotations in the AIM XML format on the local computer. A user can assign where the AIM annotation documents can be stored on the local computer.
Required User Information	If selected, user credentials need to be entered before creating an AIM annotation document.
Require Graphic Markup in Annotation	If selected, a user must create at least one graphical drawing on an image before creating an AIM annotation document.
Templates Folder	If entered, the directory will be used to search for AIM template XML documents.

Table 1. AIM Options Setting

## Setting Toolbar Options

The ClearCanvas workstation allows a user to change the size of icons and show all icons on one screen. To do so, select **Tools > Options > Toolbar**. The recommended icon size is medium and you should select the **Wrap long toolbars** option. See Figure 4.

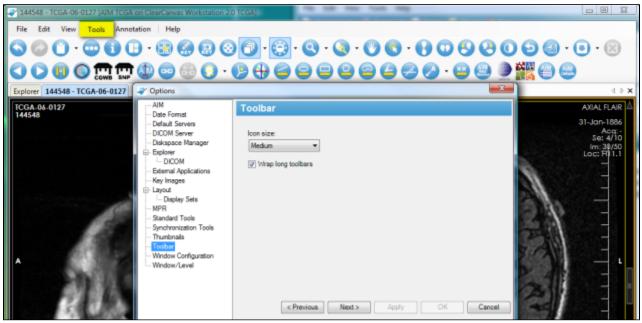


Figure 4. Setting Toolbar Option

## Using AIM Tools

Table 2 describes four AIM tools that are available on the ClearCanvas workstation.

Tool	Description
	AIM Template displays a template based form with a set of questions and choice(s) of answers for each question. A user can import a new AIM template to that location. Create new annotation objects by completely filling out this form and clicking the <b>Create Annotation</b> button.
	AIM Object Locator depicts available AIM objects in the currently displayed study without searching through every image in the study or series.
	AIM Details provides the ability to view specific areas of a selected graphic markup for an existing annotation.
0	Closed Polygon Markup tool allows creation of a free hand graphical markup. This tool can be used in addition to existing ClearCanvas tools in creating graphical markup.

Table 2. Available AIM Tools

## **AIM Template**

To activate the AIM template tool in Figure 5, click the AIM template tool button (#1). If you put the pin down (#2), you can detach the AIM Template tab by putting the mouse pointer at the header (#3) and dragging it out, as illustrated in Figure 6.

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Thk: 5.0 mm Zoom: 0.99x DFOV: 24.0 x 24 W:852 L:426 F	Thk: 3.0 mm Zoom: 0.99x DFOV W:436 L:218 P	: 24.0 x 24	Create Annotation	UserInfo

Figure 5. Activate AIM Template

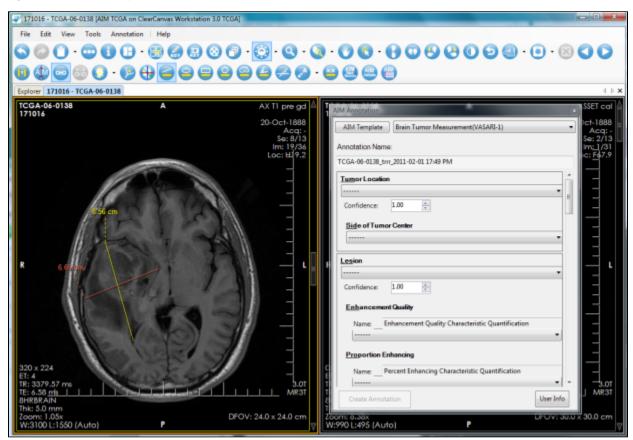
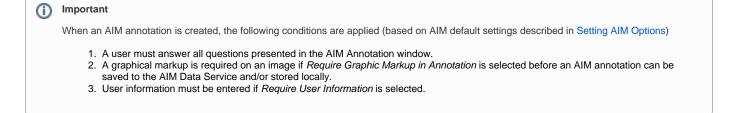


Figure 6. Detached AIM Template Tool



## Importing a New AIM Template

Import an AIM template XML document by clicking the **AIM Template** button, as shown in Figure 7. Windows Explorer opens a predefined folder described in Setting AIM Options.

I Open AIM Template File	×	AIM Annotation .	×
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BOOTCAMP (C:) DVD RW Drive (D:) KINGSTON (E:) KINGSTON (E:) Crashes AIM3.0 AIM_WEB_DESIGN AIM_XSTL_15_to_3.0	AIM_Template_v1rv14_TCGA_Example_1.xml     AIM_Template_v1rv18_TCGA_ALL_Eamples_xml     AIM_Template_v1rv18_TCGA_ALL_Eamples_4.xml     AIM_Template_v1rv18_TCGA_ALL_Eamples_5.xml     AIM_Template_v1rv18_TCGA_ALL_Eamples_5.xml     AIM_Template_v1rv18_TCGA_ALL_Eamples_7.xml     AIM_Template_v1rv18_TCGA_v1.1.xml     AIM_Template_v1rv18_TCGA_v1.1.xml     AIM_Template_v1rv18_TCGA_v3.xml     AIM_Template_v1rv18_TCGA_v3.xml     AIM_Template_v1rv18_TCGA_v3.xml     AIM_Template_v1rv18_TCGA_v3.xml     AIM_Template_v1rv18_TCGA_v3.xml	Lesion Enhancement Quality Characteristic Quantification	-

Figure 7. Importing an AIM Template

## **User Information**

(1)

Author information as depicted in (Figure 8) can be changed. To use this feature, click the **User Info** button to activate the AIM User Information form. Enter appropriate information and click **Save**.

#### User information is saved

The user information will be saved on the workstation for future use. If you are sharing the workstation with another reader, you must change or at least verify that the information in the "User Info" section reflects your personal credentials.

The AIM Template Manager is a tool used to create an AIM template XML document.



Figure 8. AIM User Information

## **Detailed Description of a Question**

A detailed description of a question can be seen by placing the mouse pointer over the first three characters of each feature name, as shown in Figure 9.

AIM Annotation		
Annotation Name:		
LESION LOCATION	<u> </u>	
Tumor Location	Ш	
<b>-</b>	Ш	
Side of Tumor Center	Ш	
<b>-</b>	Ш	
Eloquent Brain		
<b>-</b>		
Visually, when scanning through the entire tumor, what proportion of the en	=	
estimated to represent non-enhancing tumor (not edema)? Nonenhancing t regions of T2W hyperintensity (less than the intensity of cerebrospinal fluid, corresponding T1W hypointensity) that are associated with mass effect and distortion, including blurring of the gray-white interface.(Assuming that the abnormality may be comprised of: (1) an enhancing component, (2) a non-e (3) a necrotic component and (4) a edema component.)	with archi the e	tectural entire
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Proportion Necrosis		
Proportion of Edema		
<b>v</b>		
Cysts		
<b>-</b>		
Multifocal or Multicentric		
<b>-</b>		
T1/FLAIR Ratio		

Figure 9. Detail Description of a Question

## **AIM Locator**

The AIM locator, depicted in (Figure 10), allows users to see existing AIM instances available in a study. A list of available AIM instances is displayed below the Available AIM Annotations section, which is #2 in the following image. To access this feature and see an AIM annotation, click **Show Study**, which is #3 in the following image.

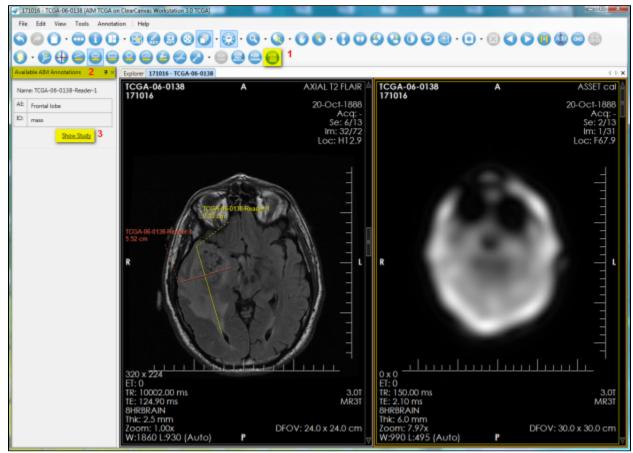


Figure 10. AIM Locator

### **AIM Annotation Details**

The AIM annotation details, as illustrated by Figure 11, allow a user to examine detailed information captured in an AIM instance. To access this feature, you select an image containing an AIM instance and then click the **AIM Details** button, as shown in (#1). The AIM Annotation Details panel appears. This panel contains information tabs including Anatomic Entity, Imaging Observation, Calculations, and All Details. The All Details tab (shown in #3) allows a user to see information related to both Anatomic Entity and Imaging Observation and their characteristics.

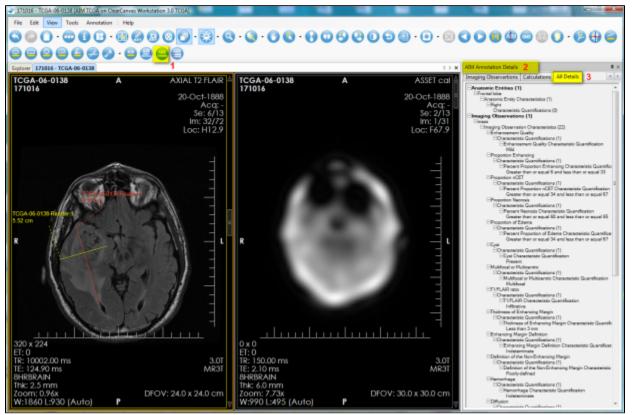


Figure 11. AIM Details

## AIM Display Markups from Different Users

For a given image in an imaging study that has more than one reader interpreting and creating AIM annotations, the workstation can display every annotation while allowing you to turn off markups from a selected group of readers. Figure 12 depicts an image with three markups from three readers. The markup from reader named *qwe-3* was turned off.

A right-mouse click on the image activates a pop-up menu with a Visible AIM Users option to turn readers' markups on or off.

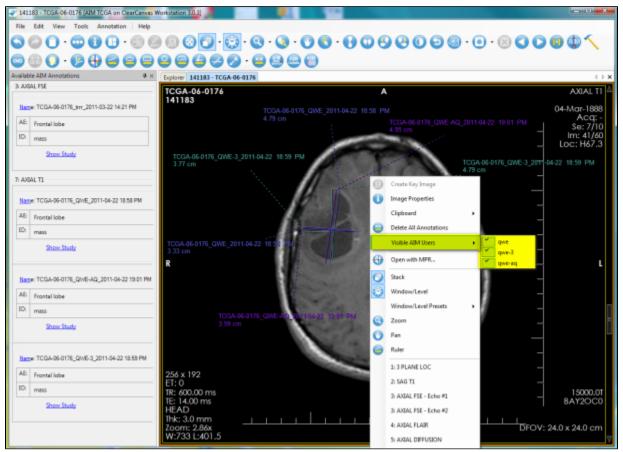


Figure 12. AIM Markup Display

By default, the workstation also displays annotations created by different users in different colors. You can change which colors are used for which user's AIM annotations Figure 12. To assign a color to a user, go to **Tools > Options > AIM > Markup**.

By default, the Random checkbox (#2) is selected, which assigns a random color to each user's markup drawings. By clearing the Random checkbox, a default color is used instead. Colors may be assigned to a single user's markup drawings by selecting the color next to the user's name in the list. Click the **Add Login** button (#3) to add a new user to the list.

Selected users may be removed from the list by clicking the **Remove Selected** button (#4). Users removed from the list will have their annotations reset to the default color.

Select all users in the list by clicking the Select All button (#5). Click the Reset To Default Color button (#6) to reset the color assigned to selected users to the default color.

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External Applications     Key Images     Layout     Display Sets     MPR     Standard Tools     Synchronization Tools     Thumbnails	dme-9d			
- Toolbar Window Configuration Window/Level	Add Login 3 Select All 5	Remove Selected		
	< Pre	vious Next >	Apply	OK Cancel

Figure 13. AIM Markup Display

## Viewing AIM Data for Each Image Series

You can see AIM annotations for an imaging study grouped by image series in the Available AIM Annotations section. Figure 14 shows two different image series. The first, Axial FSE, includes one AIM instance. The second, Axial T1, includes three AIM instances.



Figure 14. AIM Data in Each Image Series

**Using Data Services** 

## National Biomedical Imaging Archive (NBIA) Data Service

The NBIA Data Service (Figure 15) tab provides the ability to connect and retrieve studies from NBIA directly within the workstation. Holding the **Ctrl** key allows you to click on and select multiple studies. Right-clicking activates a feature that allows you to retrieve selected studies.

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TCGA-08-0357	152322	30-Sep-1845	TCGA 1.3.6.1.4.1.9328.50.46.119	967927917425608159550386921730387316	MR E
TCGA-08-0521	388428	29-Sep-1875	TCGA 1.3.6.1.4.1.9328.50.46.238	470932121913921057408160948004332734	MR
TCGA-08-0524	175038	29-Feb-1876	TCGA 13.61.41.9328.50.46.195	614997200019607573614338362310942818	MR
TCGA-08-0349	377529	29-Aug-1844	TCGA 1.3.6.1.4.1.9328.50.46.332	458644648317929088378244732560835385	MR
TCGA-08-0246	210429	27-Oct-1834	TCGA 13.6.1.4.1.9328.50.46.292	260970790043171027518614307997437725	MR
TCGA-08-0510	258285	26-Apr-1815	TCGA 1.3.6.1.4.1.9328.50.46.908	30503809387134085231364862522536218	MR
TCGA-08-0353	283143	25-0ct-1805	TCGA 1.3.6.1.4.1.9328.50.4	221976	MR
TCGA-08-0529	210818	25-Jul-1839	TCGA 1.3.6.1.4.1.9328.50.4	Retrieve Selected Study 3 85034	MR
TCGA-08-0511	370964	24-Jan-1822	TCGA 1.3.6.1.4.1.9328.50.46.404	46449637656626301089618635780855988	MR
TCGA-08-0355	422892	23-Jan-1864	TCGA 1.3.6.1.4.1.9328.50.46.218	36106900053296235485171358969395006	MR
TCGA-08-0381	327934	23-Dec-1822	TCGA 1.3.6.1.4.1.9328.50.46.274	462953578324978434212485056598809550	MR
TCGA-08-0354	240436	21-Oct-1841	TCGA 1.3.6.1.4.1.9328.50.46.193	272565505328856496292965242232139691	MR
Study Retriev	Prograce				
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Status	Study Count	Patient Id	Patient's Name	Study	

Figure 15. NBIA Data Service

Users can enter search parameters (Figure 16) based on a single value or multiple values of Patient ID, Patient's Name, Sex, Birth Date, Project name at NCI, Slice Thickness, Study Instance UID, and Modality.

Search				
Patient ID	Patient's Name	Sex	Birth Date	Search
Project TCGA	Slice Thickness	Study Instance Uid	Modality	Cancel Reset

Figure 16. Search NBIA Data Service

Columns in the NBIA Data Service page can be selected or deselected to display or hide an available result. Figure 15 depicts that all available columns for the service have been selected.

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00	-	_					
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TCG	Project	7529		29-Aug-1844			MR
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TCGA-08-	0853	283143		25-Oct-1835	TCGA	1 3.6 1 4.1 9328 50 46 337574128368739942371163019020121221976	MR
TCGA-08-	0529	210818		25-Jul-1839	TCGA	1.3.6.1.4.1.9328 50.46.91269640369694209118454745231713585034	MR
TCGA-08-	0511	370964		24-Jan-1822	TCGA	1.3.6.1.4.1.9328.50.46.40446449837056626301089618635780855988	MR
TCGA-08-	0355	422892		23-Jan-1864	TCGA	1.3.6.1.4.1.9328.50.46.21836108900053296235485171358969395006	MR
TCGA-08-	0381	127934		23-Dec-1822	TCGA	1.3.6.1.4.1.9328 50.46.2744629535783249784342124850565568009550	MR
TCGA-08-	0354	240436		21-Oct-1841	TCGA	1.3.6.1.4.1.9328.50.46.193272565505328856496292965242232139691	MR

Figure 17. Select NBIA Data Service Display Columns

### **AIM Data Service**

The AIM Data Service tab (Figure 18) provides the ability to connect and retrieve AIM XML documents from an AIM 3.0 Data Service (see Setting AIM Data Service Options). It also allows a user to retrieve both AIM documents and studies from NCI's NBIA. Right-clicking activates a feature that allows you to retrieve studies.

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L	409978	1.3.6.1.4.1.9328.50.1		LUNG	2			Extremely Obvious,		1.3.6.1.4.1.9328.50.1.108	
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L											

Figure 18. AIM Data Service

You can enter search parameters (Figure 19) based on a single value or multiple values of Anatomic Entities, Anatomic Entity Characteristics, the user who created the AIM XML documents, Imaging Observation, Imaging Observation Characteristics, and Study Instance UID.

The AIM Data Service search is case-sensitive.

A type of AIM XML document, Imaging Annotation, or Annotation Of Annotation, must be selected. The default value is Imaging Annotation.

DICOM My Computer AIM Data Service NBIA Data	ta Service		
Search			
		-	
Anatomic Entities	Anatomic Entity Characteristics	User	Search
Imaging Observations	Imaging Observation Characteristics	Study Instance Uid	Cancel
			Reset
Image Annotation     O Annotation Of Annotat	ion		
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Figure 19. Search AIM Data Service

Columns in the AIM Data Service page can be selected or deselected to display or hide an available result. Figure 20 depicts that all available columns for the service have been selected.

29 re	29 results found								
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Patient Id	*	Select Columns to Display		mic s	Anatomic Entity Characteristics	Imaging Observations	Imaging Observation Characteristics	User	Study Instance UID
12345	~	Sex							1.3.6.1.4.1.9328.50.1.10934
409978	*	DOB				Conspicuity, Internal Structure,	Extremely Obvious, LIDC S	NWU	13.6.1.4.1.9328.50.1.10607
409978	*	Anatomic Entities				Conspicuity, Internal Structure,	Extremely Obvious, Extre	NWU	13.6.1.4.1.9328.50.1.10607
12345	~	Anatomic Entity Characteristics	- 1			Conspicuity, Internal Structure,	Extremely Obvious, LIDC S	NWU	13.6.1.4.1.9328.50.1.10934
TCGA-06.	*	Imaging Observations		lobe	Right	mass	Proportion Enhancing, Pr	sdgfs	1.3.6.1.4.1.9328.50.45.3218108134678566349250471329
TCGA-06.	*	Imaging Observation Characteristics		lobe	Right	mass	Proportion Enhancing, Pr	sdgfs	13.6.1.4.1.9328.50.45.3218108134678566349250471329
TCGA-06.	~	User	-	lobe	Right	mass	Proportion Enhancing, Pr	sdgfs	1.3.6.1.4.1.9328.50.45.3218108134678566340250471329
TCGA-06.	*	Study Instance UID	1	lobe	Right	mass	Proportion Enhancing, Pr	sdgfs	1.3.6.1.4.1.9328.50.45.3218108134678566349250471329
TCGA-06.	750	088	Frontal	lobe	Right	mass	Proportion Enhancing, Pr	sdgfs	1.3.6.1.4.1.9328.50.45.3218108134678566349250471329
TCGA-06.	. 250	088	Frontal	lobe	Right	mass	Proportion Enhancing, Pr	sdgfs	1.3.6.1.4.1.9328.50.45.3218108134678566349250471329
TCG4-05	250	088	Foontal	lohe	Right	matt	Proportion Enhancing, Pr	edate	1 3 6 1 4 1 9328 50 45 3218108134678566349250471329

Figure 20. Select AIM Data Service Display Columns

## Additional Information

Follow the links below for more information on how to set up AIM, information on the AIM Template Manager, and AIM Template Manager software.

- AIM Terms and Concepts
  AIM Template Manager User's Guide
  AIM Template Software Setup manual
  AIM Template Creator Software