

# **Customer Technical Bulletin**

### **CTB-01017**

Date: Feb	oruary 24, 2022				
Author:	Service Engineering				
Product:	Selenia Dimensions/	Subsystem:	AWS		
	3Dimensions				
Subject:	Exporting Defective Pixel Maps Using System Tools on Selenia				
	Dimensions/3Dimensions Systems				

### Purpose

Provide instructions for exporting Defective Pixel Map files from Selenia Dimensions/3Dimensions systems.

### Scope

This bulletin applies to Selenia Dimensions systems running software versions 1.10 and above and 3Dimensions systems running software versions 2.1 and above.

### Discussion

All Selenia Dimensions and 3Dimensions detectors meet Hologic's defect specifications.

This Bulletin will inform the site's Tech Manager user on how to obtain the Defective Pixel Map for the Medical Physicist.

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### Procedure:

1. Power on acquisition workstation (AWS). Login as a Windows administrator user, e.g., Tech Manager. (Reference Figure 1)



Figure 1 – OS Login Screen for Tech Manager

2. Login to the AWS application as Tech Manager which has administrator rights. (Reference Figure 2)



**Figure 2 – Capture Application Login Screen for Tech Manager** 

3. Click on the Admin button as shown in Figure 3.

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**Figure 3 – Navigating to Admin Screen** 

4. Click on "System Tools" as shown in Figure 4.



Figure 4 – Admin Page for Tech Manager Login

5. Log into System Tools. (Reference Figure 5)



**Figure 5 – System Tools Login Screen** 

6. At the System Tools Welcome Page, click on Troubleshooting → Troubleshooting AWS → Get Image Quality Files. (Reference Figure 6)



**Figure 6 – Troubleshooting AWS Page** 

 Uncheck all boxes except for "DetectorFiles". Click the Download button. Click on the text "Download DetectorFiles.zip" that will appear below the download button. (Reference Figure 7)

Search	✓ Welcome → Troubleshooting → Troubleshooting AWS → Get Image Quality Files     Get Image Quality Files		
Welcome     O Getting Started     O Getting Started     O AWS     O Peripherals     O Hardware     Troubleshooting     O Troubleshooting AWS     O Get Images     Get Image Quality Files     O Troubleshooting Computer     O Troubleshooting Computer	Components DetectorFiles  FrameFiles FlatfieldImageFiles PhantomImageFiles Download DetectorFiles zip		

**Figure 7 – Downloading Detector Files** 

8. Click on "Save As" in the dialog box that appears. (Reference Figure 8)



**Figure 8 – Saving Detector Files to a Zipped Folder** 

- 9. Select a location on an external USB drive or other device to save the zipped folder that contains the detector map files. Click "Save."
- 10. Unzip the folder to extract the map file(s). The files are named with the detector's serial number followed by the modality name. The \*CONV1x1.map file is the defect map file for both 2D and Clarity HD (hi-res tomo). The \*TOMO2x2.map file is the defect map for standard resolution tomo (2x2 binned projections) only. (Example shown in Figure 9)

) > D	DetectorFiles		
^	Name	Туре	Size
	YA801914.cfg	CFG File	1 KB
	YA801914_CONV1x1.cfg	CFG File	1 KB
	YA801914_CONV1x1.dlc	DLC File	1 KB
	YA801914_CONV1x1.map	MAP File	60 KB
	YA801914_CONV1x1.wlc	WLC File	1 KB
	YA801914_TOMO2x2.cfg	CFG File	1 KB
	YA801914_TOMO2x2.dlc	DLC File	1 KB
	YA801914_TOMO2x2.map	MAP File	28 KB
	YA801914_TOMO2x2.wlc	WLC File	1 KB
	^	<ul> <li>&gt; DetectorFiles</li> <li>Name</li> <li>YA801914.cfg</li> <li>YA801914_CONV1x1.cfg</li> <li>YA801914_CONV1x1.dlc</li> <li>YA801914_CONV1x1.map</li> <li>YA801914_CONV1x1.wlc</li> <li>YA801914_TOM02x2.cfg</li> <li>YA801914_TOM02x2.dlc</li> <li>YA801914_TOM02x2.map</li> <li>YA801914_TOM02x2.wlc</li> </ul>	Name         Type           VA801914.cfg         CFG File           VA801914_CONV1x1.cfg         CFG File           VA801914_CONV1x1.cfg         DLC File           VA801914_CONV1x1.dlc         DLC File           VA801914_CONV1x1.map         MAP File           VA801914_CONV1x1.wlc         WLC File           VA801914_CONV1x1.wlc         ULC File           VA801914_TOMO2x2.cfg         CFG File           VA801914_TOMO2x2.dlc         DLC File           VA801914_TOMO2x2.wnap         MAP File           VA801914_TOMO2x2.wlc         WLC File

**Figure 9 – Example of Files Extracted from DetectorFiles.zip** 

### Note:

- Files are in text format, so they can be opened using Notepad or a similar application. (An example is shown in Figure 10)
- The files contain a list of values. For each entry, the first number is the index of the row of the image (starting from 0 and going to the last row of the image, which is 4095 for the \*CONV1x1.map).
- The second number after the comma is the number of defective pixels in that given row. When this number is 0, there are no other values after the colon. For a non-zero value, the numbers after the colon are the comma-separated column indices of where the dead pixels are for the given row.

YM868132_TOMO2x2.map - Notepad				_	
File Edit Format View Help					
File Galt Format View Help 252,1: 741, 253,1: 741, 255,1: 741, 255,1: 741, 256,1: 741, 257,1: 741, 258,1: 741, 266,1: 741, 266,1: 741, 261,1: 741, 263,2: 414,741, 263,2: 414,741, 264,3: 413,414,741, 265,1: 741, 266,1: 741, 266,1: 741, 267,1: 741, 268,1: 741, 279,1: 741, 271,1: 741, 272,1: 741, 273,1: 741, 273,1: 741, 274,1: 741, 275,1: 741,					
280,1: 741,					
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<					>
	Windows (CRLF)	Ln 1, Col 1	100%		

**Figure 10 – Example of Defective Pixel Map Format**