

**CTB-01017**

**Date:** *February 24, 2022*

**Author:** Service Engineering

**Product:** Selenia Dimensions/  
3Dimensions

**Subsystem:** AWS

**Subject:** Exporting Defective Pixel Maps Using System Tools on Selenia  
Dimensions/3Dimensions Systems

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**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.

# Technical Bulletin (cont.)

## Procedure:

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

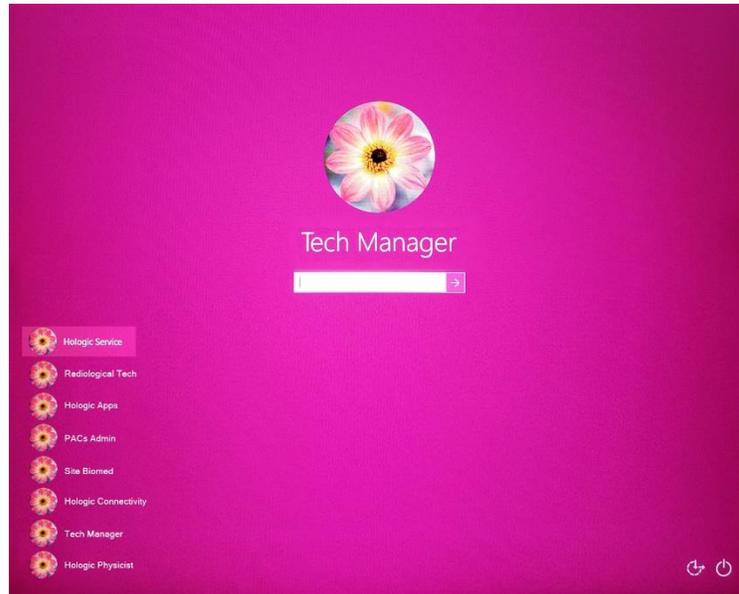


Figure 1 – OS Login Screen for Tech Manager

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

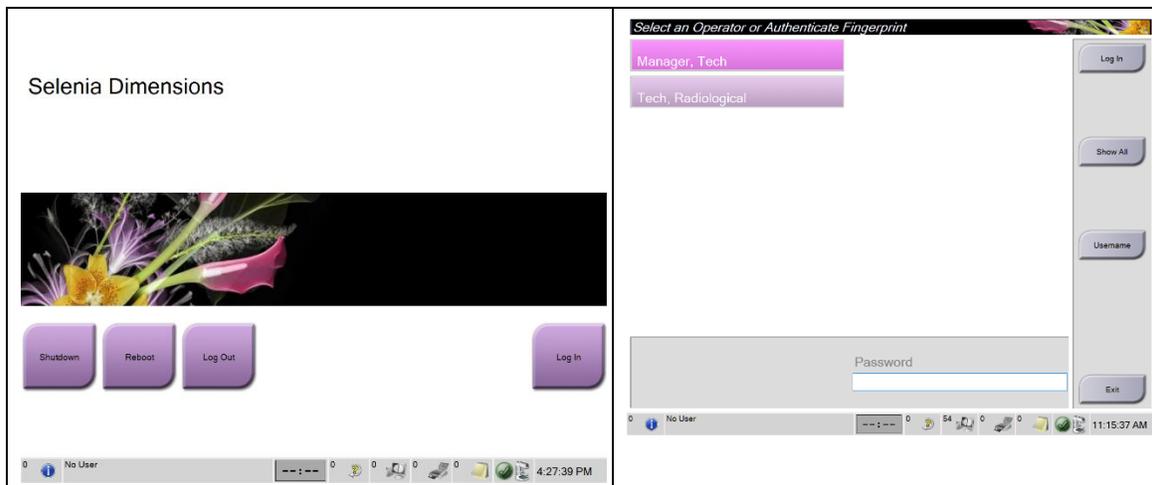


Figure 2 – Capture Application Login Screen for Tech Manager

# Technical Bulletin (cont.)

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

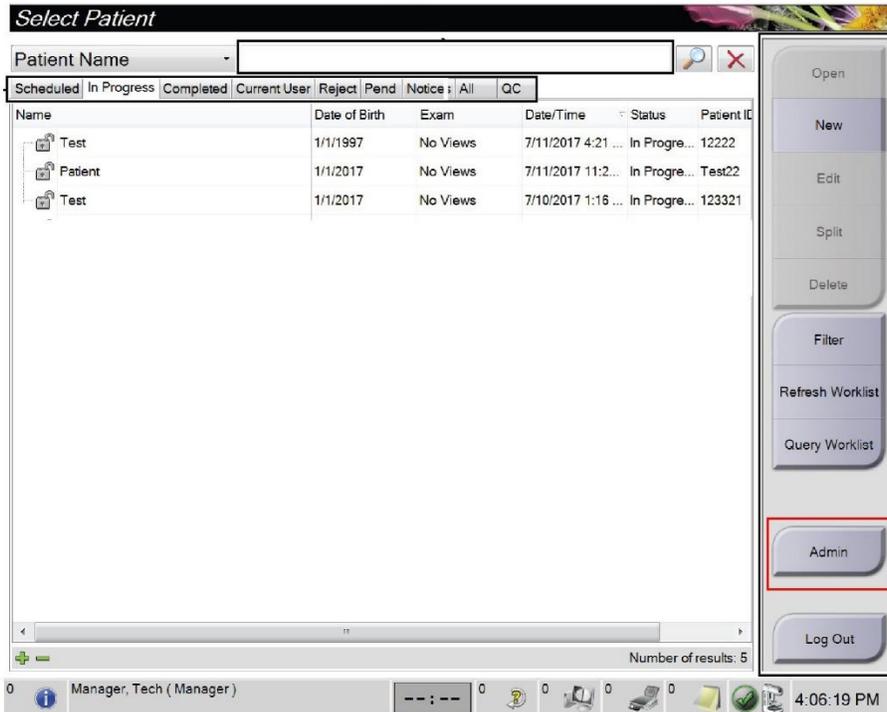


Figure 3 – Navigating to Admin Screen

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

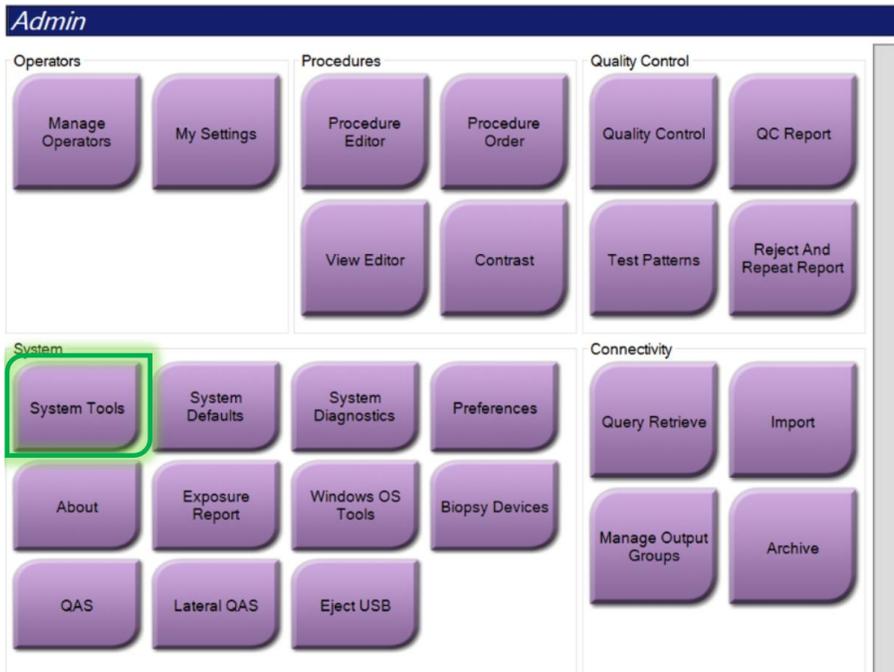


Figure 4 – Admin Page for Tech Manager Login

# Technical Bulletin (cont.)

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

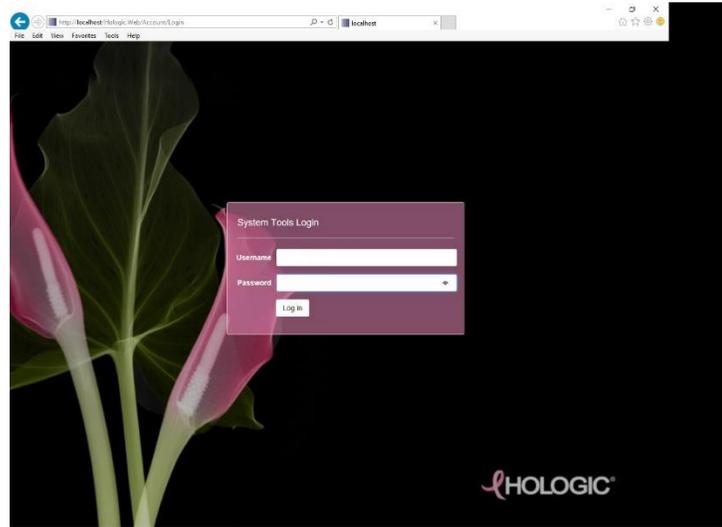


Figure 5 – System Tools Login Screen

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

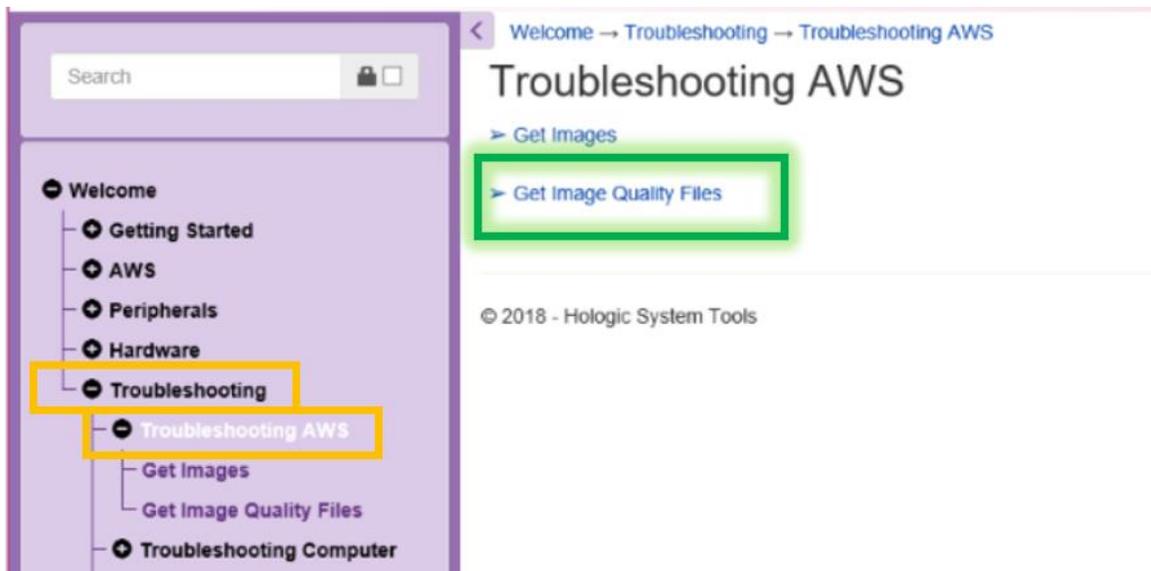


Figure 6 – Troubleshooting AWS Page

## Technical Bulletin (cont.)

7. 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)

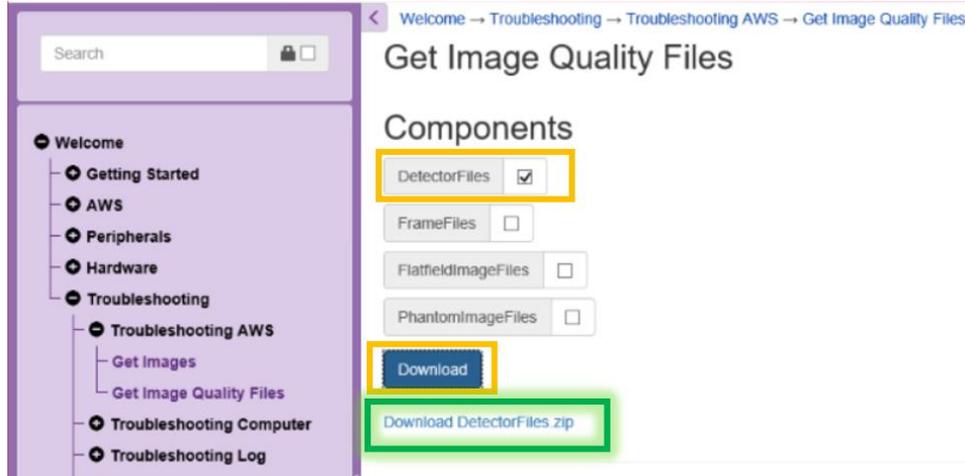


Figure 7 – Downloading Detector Files

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

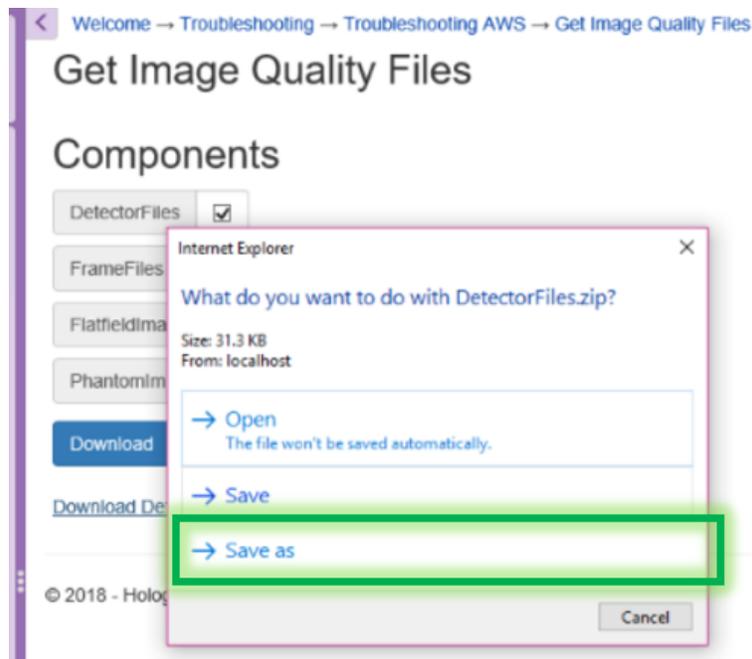
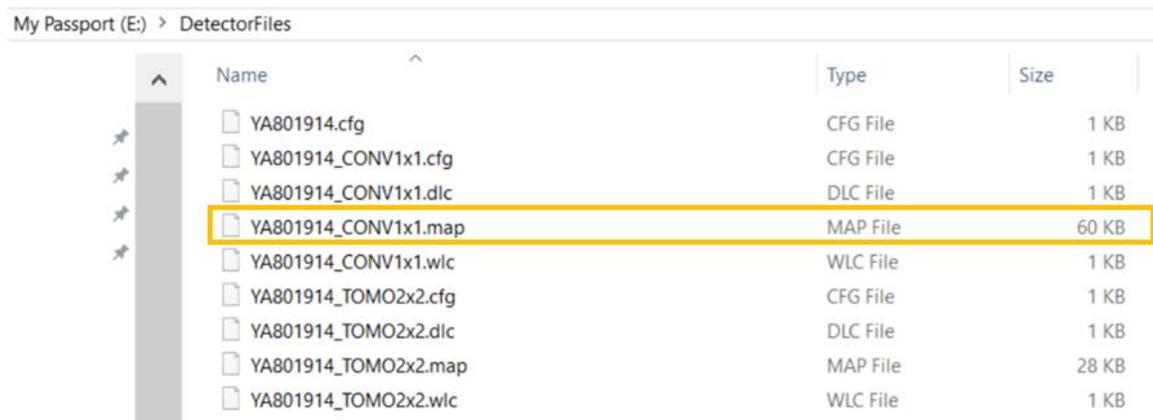


Figure 8 – Saving Detector Files to a Zipped Folder

## Technical Bulletin (cont.)

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)



My Passport (E:) > DetectorFiles

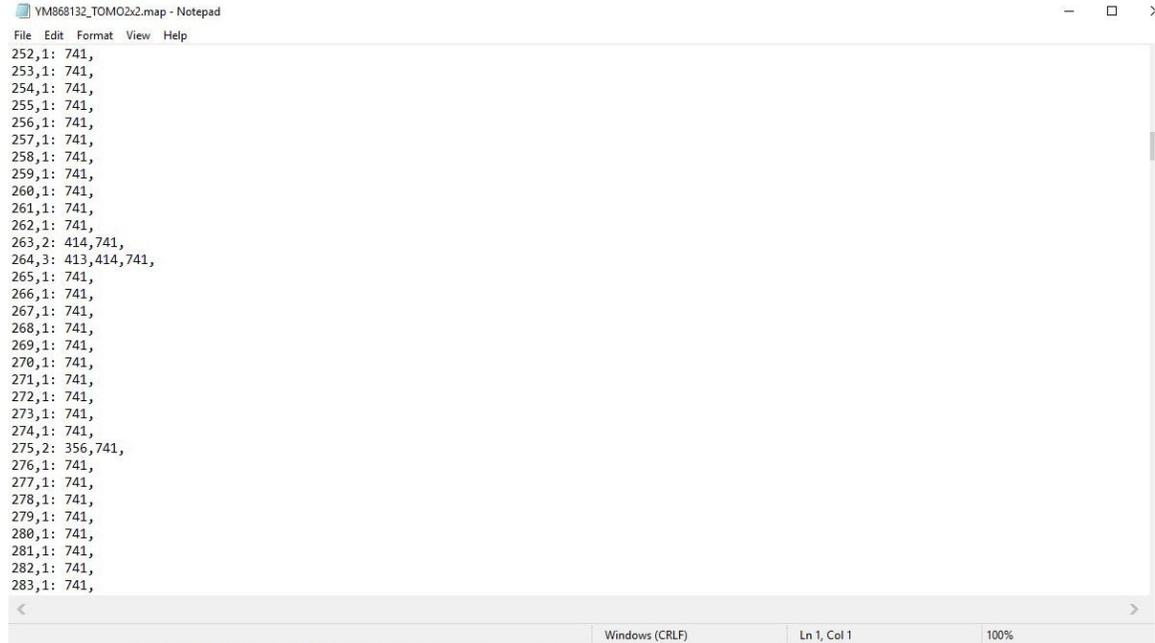
Name	Type	Size
YA801914.cfg	CFG File	1 KB
YA801914_CONV1x1.cfg	CFG File	1 KB
YA801914_CONV1x1.dlc	DLC File	1 KB
YA801914_CONV1x1.map	MAP File	60 KB
YA801914_CONV1x1.wlc	WLC File	1 KB
YA801914_TOMO2x2.cfg	CFG File	1 KB
YA801914_TOMO2x2.dlc	DLC File	1 KB
YA801914_TOMO2x2.map	MAP File	28 KB
YA801914_TOMO2x2.wlc	WLC File	1 KB

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

# Technical Bulletin (cont.)

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
252,1: 741,
253,1: 741,
254,1: 741,
255,1: 741,
256,1: 741,
257,1: 741,
258,1: 741,
259,1: 741,
260,1: 741,
261,1: 741,
262,1: 741,
263,2: 414,741,
264,3: 413,414,741,
265,1: 741,
266,1: 741,
267,1: 741,
268,1: 741,
269,1: 741,
270,1: 741,
271,1: 741,
272,1: 741,
273,1: 741,
274,1: 741,
275,2: 356,741,
276,1: 741,
277,1: 741,
278,1: 741,
279,1: 741,
280,1: 741,
281,1: 741,
282,1: 741,
283,1: 741,
```

Figure 10 – Example of Defective Pixel Map Format