



## Taking and Using Diagnostic Images

The information that follows pertains to:

Software Revisions: 4.3; 5.x  
Hardware: Agilent 5DX System; TDW  
98 - 12 - 003 - 02

Both, Series I and Series II

### **Purpose:**

If there is a potential problem with an algorithm or questions regarding the proper threshold settings, it is useful to be able to store an image and send it to your local support person or to the SPT support group.

There is a way to do this built into the Agilent 5DX, it is the Collect Diagnostic Image utility. The information stored contains not only the image, but also all of the CAD data for the panel in the proper format, with information about where the particular image fits into the test. Two files are created, a large, compressed .VRN file which contains the image and CAD (NDFs and RTFs), and a small .DAT file. Both are needed to later test the view on a Test Development Workstation (TDW).

If there is a problem that is causing an IAS crash or some other critical problem, or if the view is multi-slice, the view can be tested in diagnostic mode (graphics on). Once the image(s) has been acquired, the test can be aborted, graphics erased, and you can proceed as indicated.

NOTE: For large boards the files can exceed the capacity of a single floppy, so you may want to be prepared with several. If you have old joint learned data it is advisable to delete this before taking the diagnostic image in order to make the size of the file more manageable.

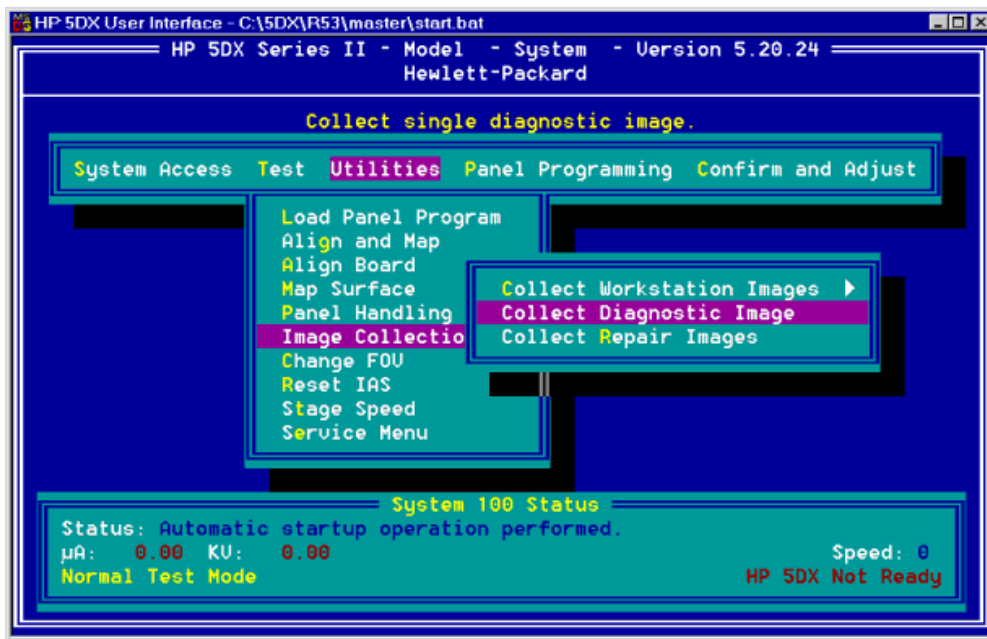
Before archiving a diagnostic image on either the Agilent 5DX or the TDW, the following conditions must be met:

- The act of archiving does not snap the image. The image must be in a frame buffer and the CAD must be loaded.
- If archiving from the TDW, the CAD must be loaded locally.
- If archiving from the Agilent 5DX, all slices of the view must be in a frame buffer.

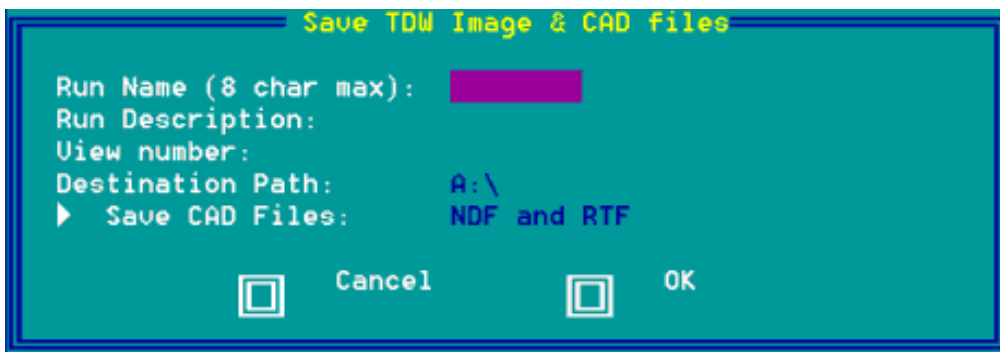
### **To Save a Diagnostic Image on the Agilent 5DX:**

1. Load CAD data for the desired panel.
2. Perform a single view test on the desired view.

- From the User Interface menu select Collect Diagnostic Image option.



- Fill in the values for the form.



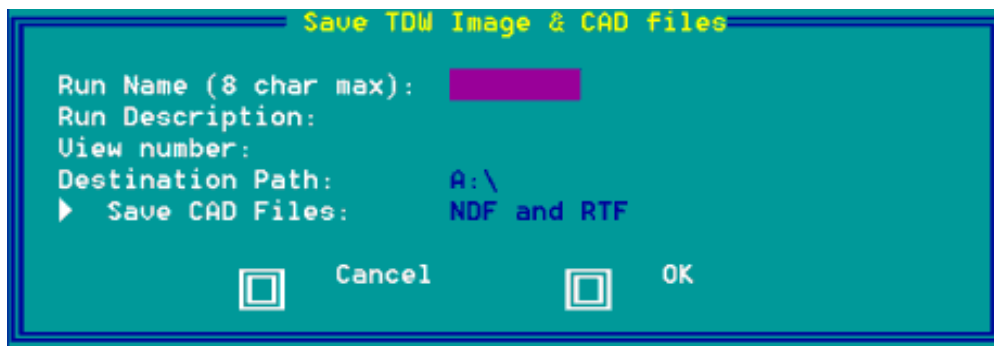
- Fill in the Run Name with a unique 8 character name.
- Fill in the Run Description with desired comment (32 characters maximum).
- Fill in the View Number desired.
- Choose the Destination Path and Save options and OK.

### To Save a Diagnostic Image on the TDW:

- Load the CAD data and the Run for the desired panel.
- From a separate DOS shell run the following command string:

```
TDWVUE -SAVEFROMTDW
```

- Fill in the values for the form.

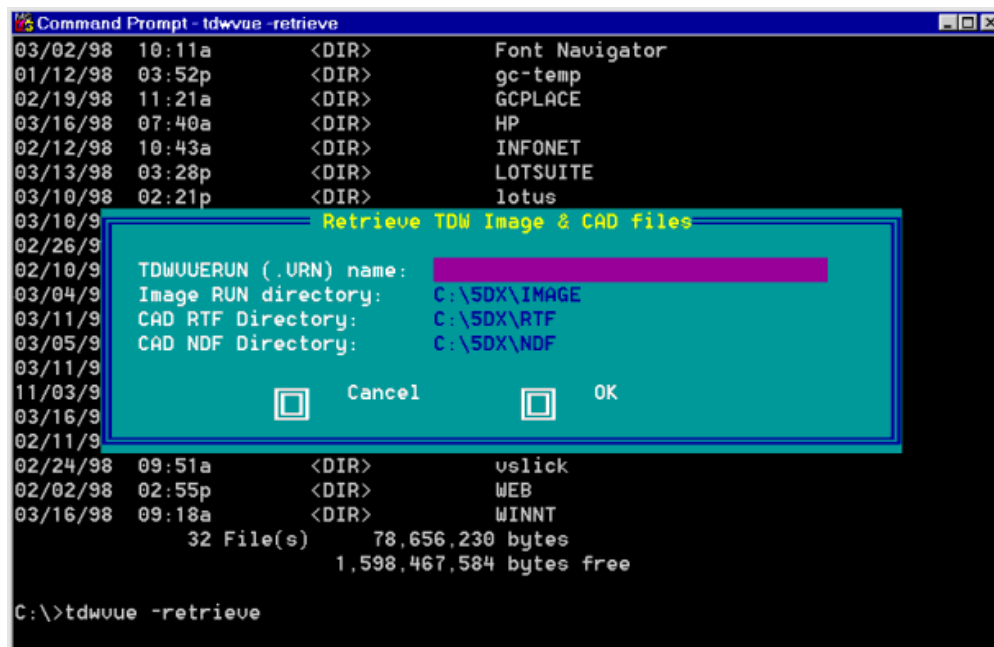


4. Fill in the Run Name with a unique 8 character name.
5. Fill in the Run Description with desired comment (32 characters maximum).
6. Fill in the View Number desired.
7. Choose the Destination Path and Save options and OK.

### To Run a Previously Saved Diagnostic Image on the TDW:

In order to test an image stored using Collect Diagnostic Image on a TDW, there is a DOS utility that unzips the .VRN file and stores the data in the appropriate places.

1. Type TDWVUE -RETRIEVE at a DOS prompt. The default paths for the image, NDFs and RTFs are normally correct, but can be changed to match your system.
2. Fill in the values for the form.



3. Give the full path of the .VRN file (the one that was filled in previously).
4. From CADLink, select the NDFs for the application and compile them.
5. To test on the TDW click on the Load Program icon, select Use Local Panel Program, then select the correct panel program from the Panel Name pulldown box and the correct run from the Test Name pulldown box