

Offline SPT Viewer – User Guide

Guide on how to Import data from PCIe Gen 3 Analyzer

Revision History

Version	Description	Prepared By
0.1	First Draft	Tushar Mago

Table of Contents

Introduction	4
Requirements.....	5
Flow of Operation	6
Exporting PAD data	7
XML Creator Tool	11
Features of SPT Offline Viewer	12

Introduction

This is a user guide which talks about process of exporting data from Gen3 Protocol Analyzer as a PAD i.e. E2960 Protocol Analyzer Data file to be viewed in SPT offline solution for Gen3 Analyzer.

This technique allows using SPT Offline Viewer features for Gen3 traces captured by PCIe Gen3 Protocol Analyzer.

Requirements

This solution requires ...

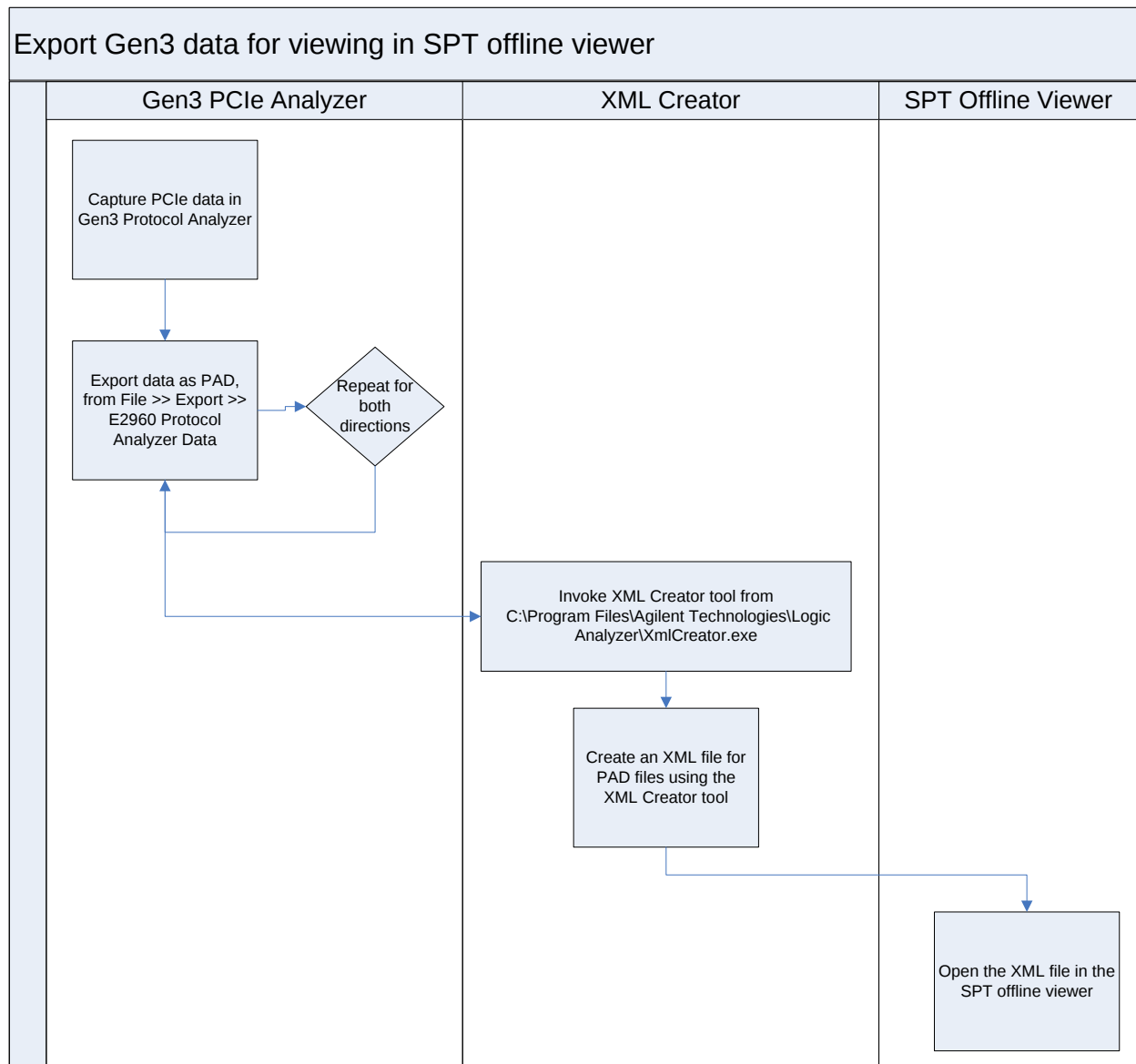
Logic Analyzer Build 04.00.0000

- Windows XP & Windows 7 support

Agilent ProtocolAnalyzer 8.01.013 Build 12-October-10

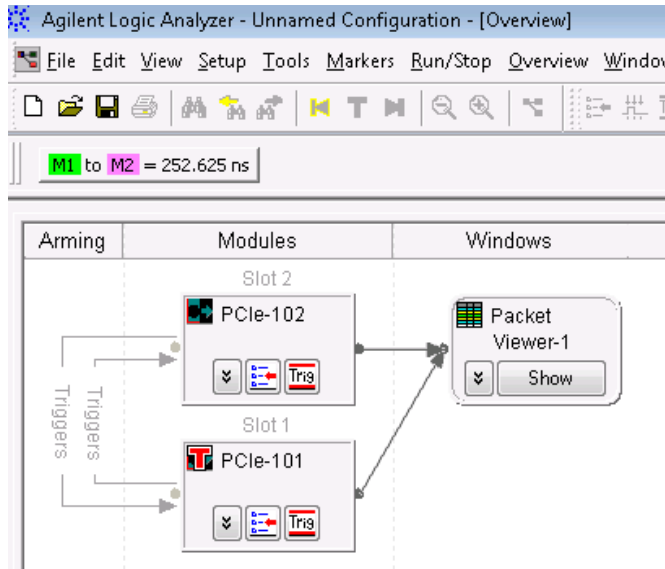
- This build is meant for offline viewing of Gen 3 PAD files, users should avoid running this build on Gen2 Hardware
- Windows XP & Windows 7 (32 Bit support only)

Flow of Operation

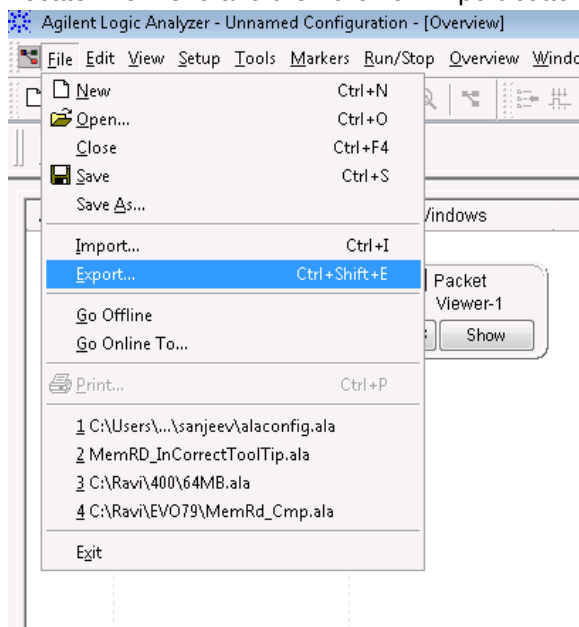


Exporting PAD data

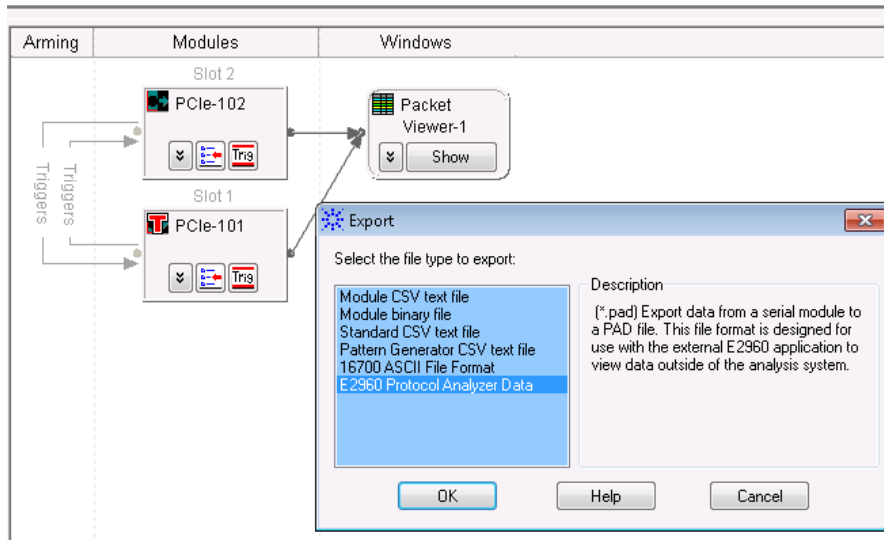
1. On Logic Analyzer application, create your PCIe Gen3 Setup and capture a trace, Before proceeding to export the data



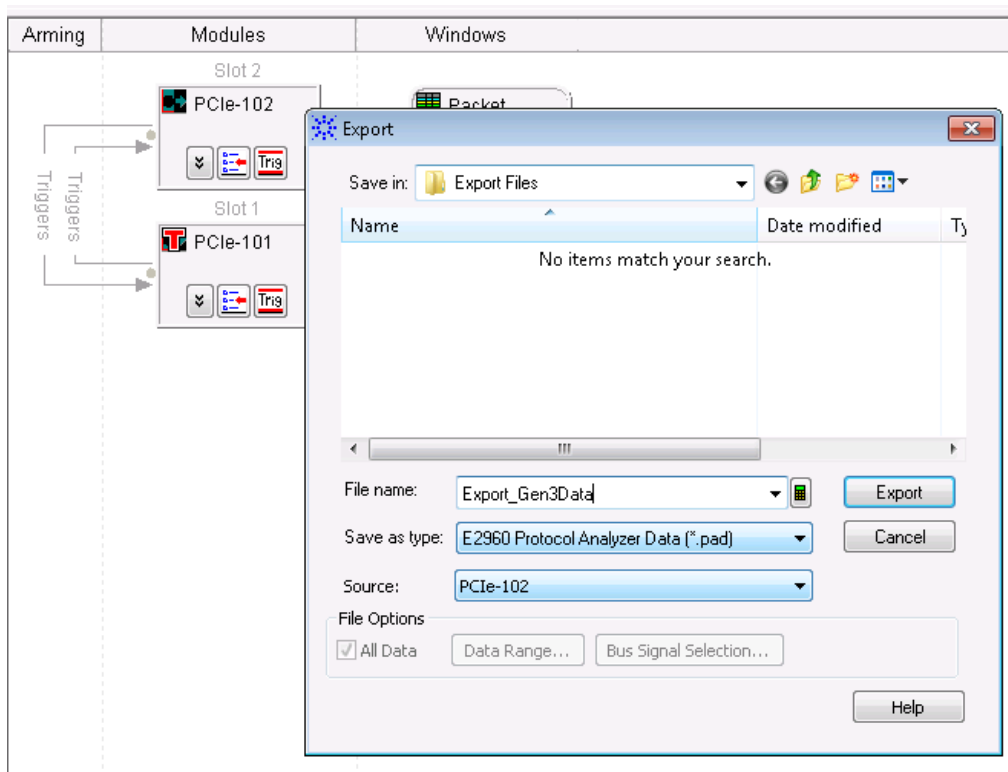
2. Locate File menu and then click on Export button



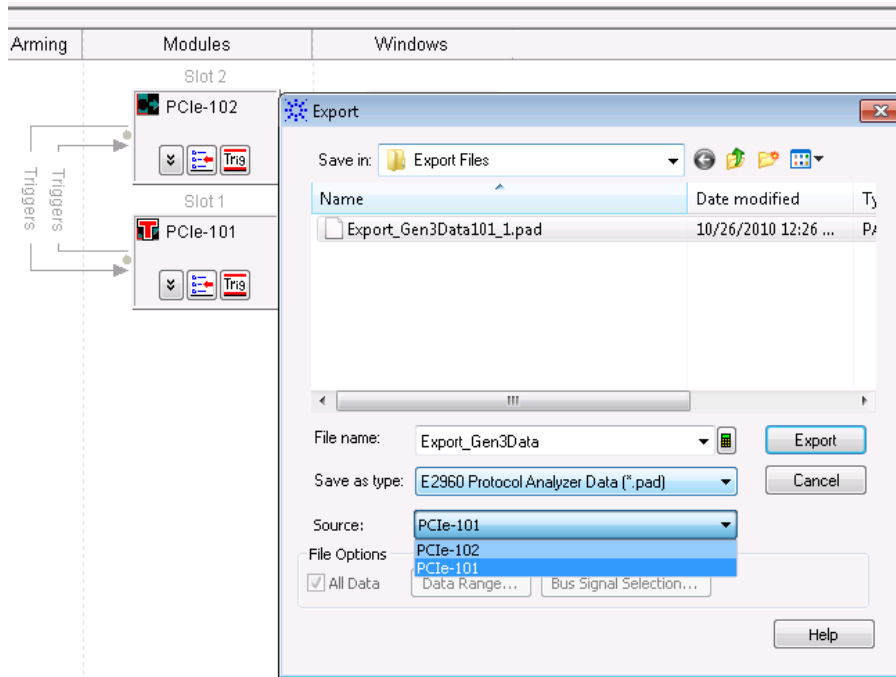
- Choose the E2960 Protocol Analyzer Data option to export your data



- Set the filename and choose the Source module, and click on export. After export you will find the PAD file name has changed to match our own internal file naming convention.



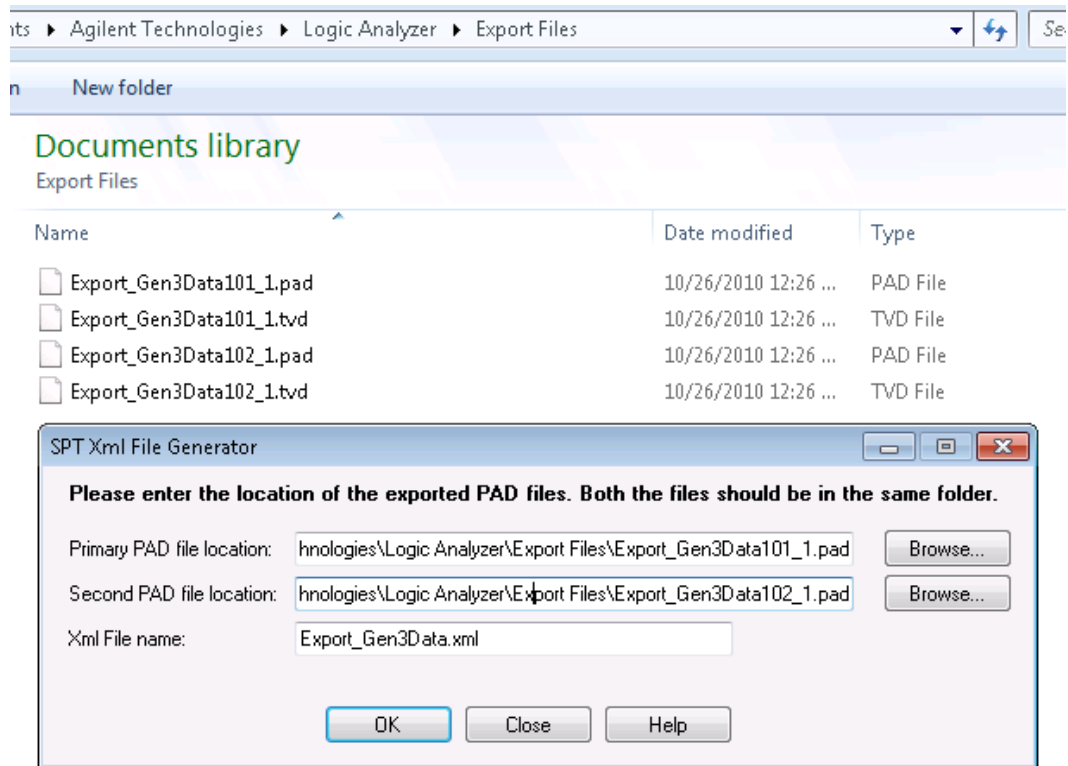
- Repeat the same step for the other direction, by choosing the other module from the source dropdown below.



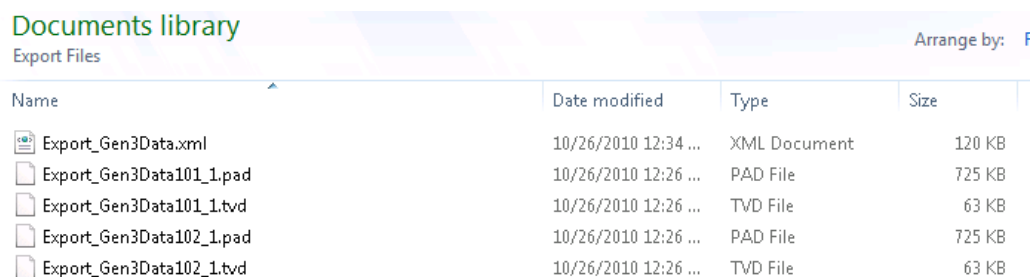
- You will now find four files have been generated and their file names have been post-fixed with our internal file-naming convention.

utest > My Documents > Agilent Technologies > Logic Analyzer > Export Files			
Share with	Burn	New folder	
Name	Date modified	Type	Size
Export_Gen3Data101_1.pad	10/26/2010 12:26 ...	PAD File	725 KB
Export_Gen3Data101_1.tvd	10/26/2010 12:26 ...	TVD File	63 KB
Export_Gen3Data102_1.pad	10/26/2010 12:26 ...	PAD File	725 KB
Export_Gen3Data102_1.tvd	10/26/2010 12:26 ...	TVD File	63 KB

9. Now invoke the XML creator tool from the following path
 C:\Program Files\Agilent Technologies\Logic Analyzer\XmlCreator.exe
 And choose the PAD files from each direction, and then click on OK to generate a XML file



10. Finally your directory should look something like this below, copy all the files to your desired location and open the XML from the SPT Offline Viewer

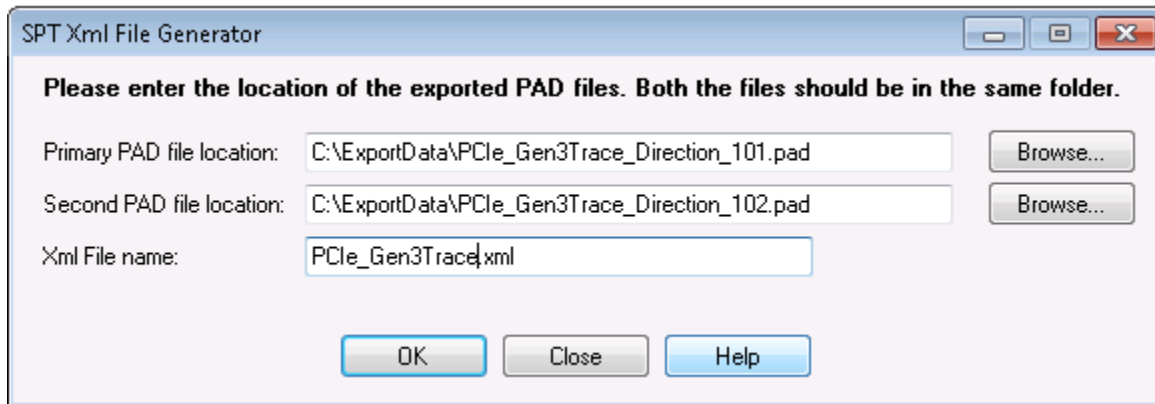


XML Creator Tool

The XML Creator tool is located in the installation folder of Login Analyzer, normally its located at the following path.

C:\Program Files\Agilent Technologies\Logic Analyzer\XmlCreator.exe

Double click to start the XML Creator Tool.



Choose PAD files from both directions, and set the desired XML file name.

When you click on "OK" you will find a XML file has been created which can be opened in SPT Offline Viewer

Make sure that you copy all the file PAD, TVD and XML files to your desired destination.

Features of SPT Offline Viewer

All functionalities of SPT Offline Viewer will be available except which require hardware. Behaviors of available Offline functionalities would remain same as Gen2 Analyzer except few specific behaviors.

Packet Viewer:

This would work similar to Gen2 Analyzer

Traffic Overview:

This would work similar to Gen2 Analyzer

- This would also show Gen3 packets/Order Set separately from Gen1/Gen2 Packets/Ordered set list.
- It would not show any of the protocol error.
- Option to jump to “First or Last, Previous, Next” packet would be there.

Find/Search:

This would work similar to Gen2 Analyzer

- This would also show Gen3 packets/Order Set separately from Gen1/Gen2 Packets/Ordered set list.
- It would not show any of the protocol error

Performance Summary Viewer:

This would work similar to Gen2 Analyzer

Transaction & Sequence Viewer:

This would work similar to Gen2 Analyzer

Flow Control:

This is not currently supported for Gen 3 Traces.

Lane Viewer:

It would only show the highlighted packet (of packet viewer) in lane format.

For Gen1/Gen2 data, Display Format would be similar to Gen2 analyzer.

In case of Gen3 data, Display would only be Hex Lane View.