Install Avnet Board Definition Files in Vivado 2017.1

Version 1.0

Document Control

Document Version: 1.0

Document Date: 23 June 2017

Prior Version History

Version	Date	Comment
1.0	12 Jun 2017	Initial Document Release

Contents

Figures

1   Overview

The Vivado® Design Suite allows you to create projects based on specific development boards. When you select a specific board, Vivado design tools enable additional designer assistance as part of its IP customization for IP integrator designs. For more information about this capability, please refer to the following Quick Take video.

http://www.xilinx.com/training/vivado/using-vivado-with-xilinx-evaluation-boards.htm

2   Objectives

- This document describes how to install Avnet Board Definition files so that the Avnet boards become visible in Vivado Design Suite 2017.1.

3   Software Requirements

The software used to test the procedures outlined in this document is:

- Windows-7 64-bit

- Xilinx Vivado 2017.1

4 Install Board Definitions into the Vivado installation

1. Extract the archive to the following location.

    For 2017.1:
    installdir\Vivado\2017.1\data\boards\board_files

2. Now browse to the board_files location. The screenshot below shows the contents of this directory after the installation of the MiniZed 7007s. MicroZed 7010 and 7020 as standalone boards, PicoZed 7010, 7015, 7020, and 7030 boards with either the V1 or V2 FMC Carrier.
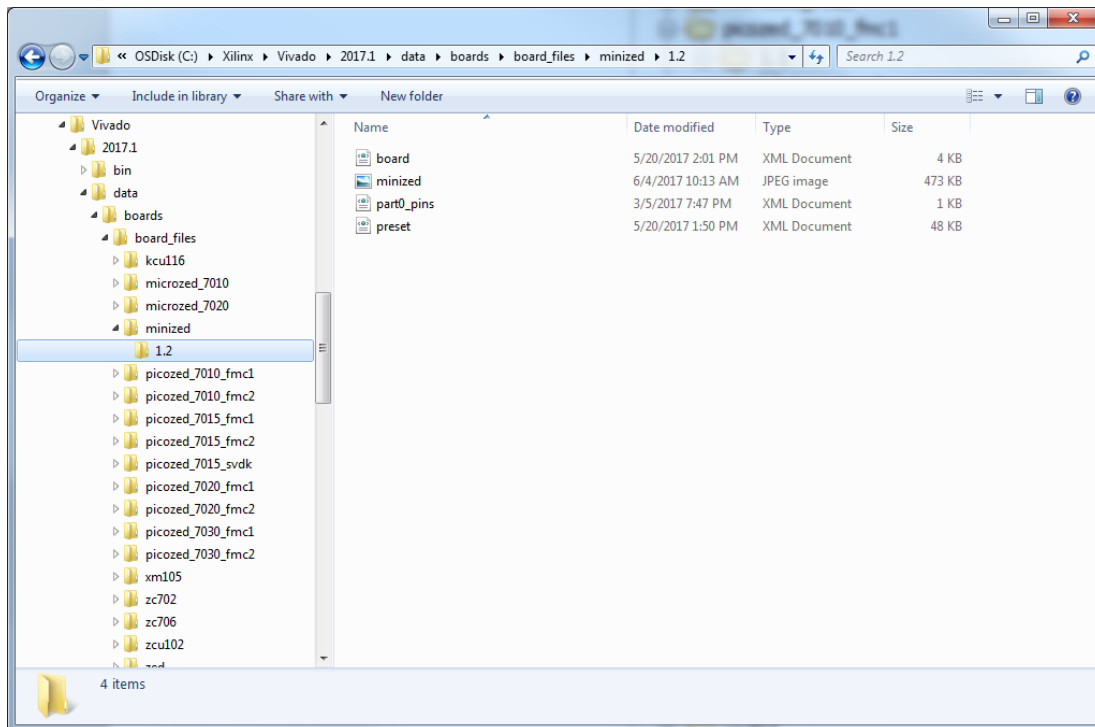

Figure 1 – Xilinx Install After Extraction of Definitions

5 Test in Vivado

The new boards should now be visible in Vivado 2017.1 for vendor **em.avnet.com**. To test this out, do the following.

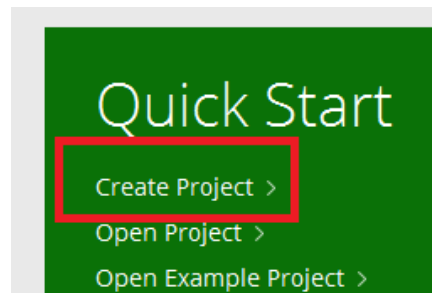1. Launch Vivado 2017.1
2. Select **Create New Project**.

Figure 2 – Create New Project

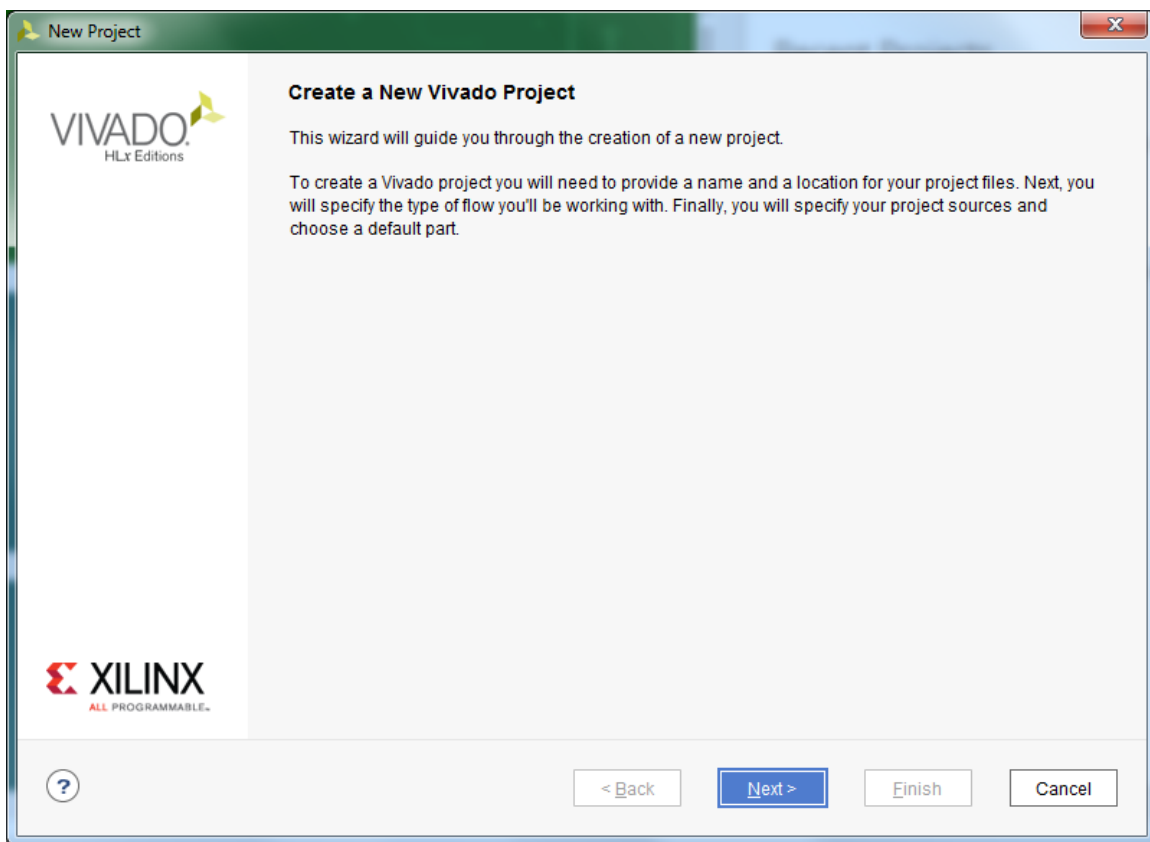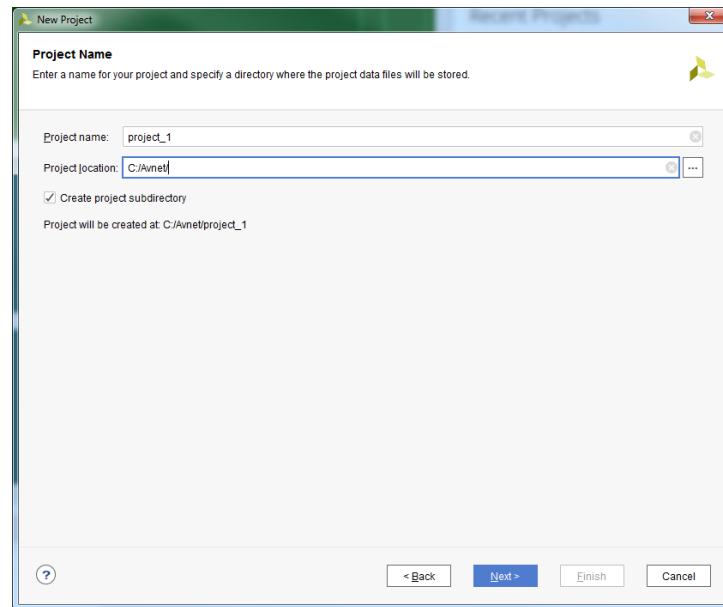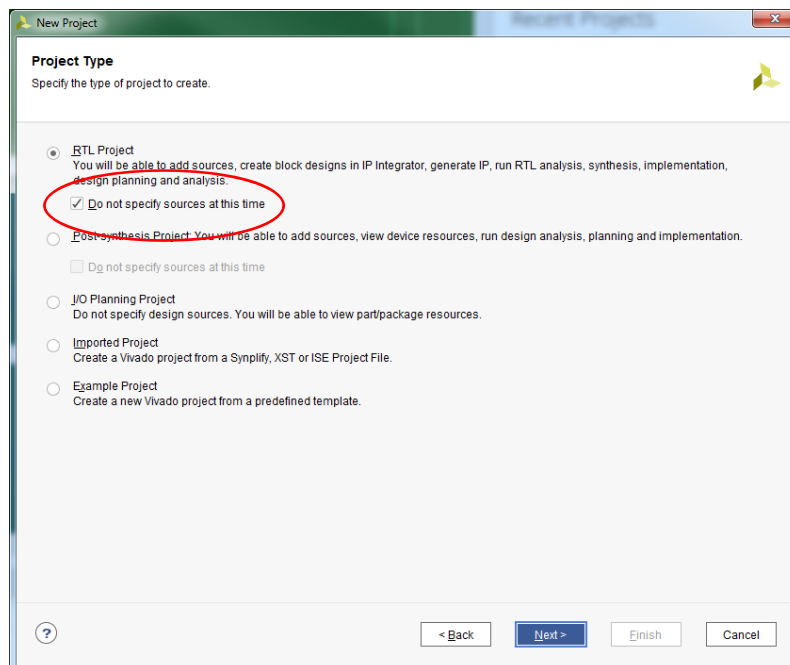3. Click **Next >** to get started.

Figure 3 – Create a New Vivado Project

1. Set the project name and location. Press **Next >**.

Figure 4 – Set Project Name and Location

2. Select the check box for ***Do not specify sources at this time***. Click **Next >**.
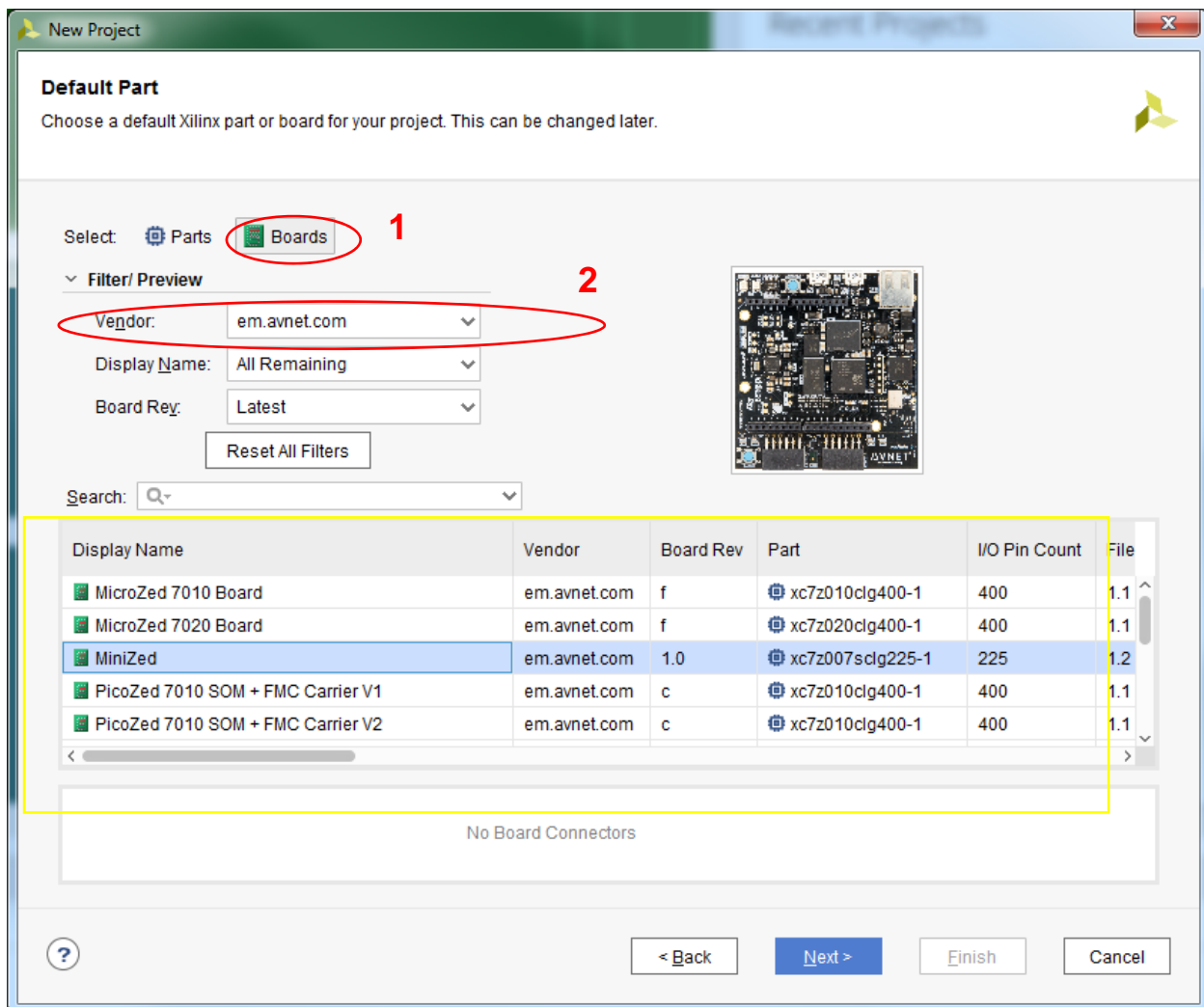

Figure 5 – Project Type

3. At the *Default Part* screen,
    a. Click **Boards** next to *Select*.
    b. Select **em.avnet.com** in the pull-down for *Vendor*.

The options should appear as shown. Note that the *ZedBoard Rev D* is included with the Vivado 2017.1 default installation. The *MiniZed, MicroZed* and *PicoZed* entries were added with this procedure, assuming all archives were extracted. MicroZed Revisions B, C, F-01, F-06, or G as well as both Commercial and Industrial temperature grade MicroZed boards are compatible with the Rev F entries. PicoZed Revision C is compatible with Revision B.

Figure 6 – MiniZed, MicroZed and PicoZed Boards Visible in Vivado 2017.1

6 Getting Help and Support

6.1 Avnet Support

The MiniZed, MicroZed, PicoZed and other Avnet Zynq family products are versatile development kits or System On Modules (SOMs) that allow for evaluation and productization of the Zynq SoC, which can help you adopt Zynq into your next design. All technical support is offered through our SOM family website forum support, such as www.minized.org. Users of our products are encouraged to participate in the forums and offer help to others when possible. The forums are located through clicking the forum support link or direct access through the forums path. For example:

http://minized.org/forums/
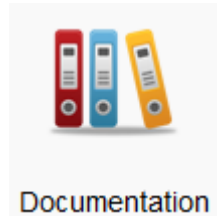
For questions regarding the MiniZed community website, please direct any questions to:

MiniZed.org Web Master – webmaster@MiniZed.org

To access the most current collateral for MiniZed please visit the community support page at:

www.MiniZed.org/content/support
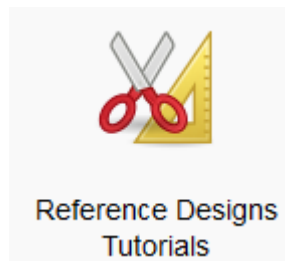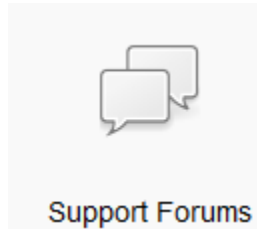
Once on the MiniZed.org support page:

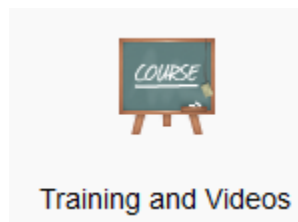To access the latest MiniZed documentation, click on the Documentation link:

Documentation

To access the latest reference designs for MiniZed, click on the following link:

Reference Designs
Tutorials

To access the MiniZed technical forums, click on the following link:

Support Forums

To view online training and videos, click on the following link:

Training and Videos

6.2 Xilinx Support

For questions regarding products within the Product Entitlement Account, send an e-mail message to the Customer Service Representative in your region:

Canada, USA and South America - isscs_cases@xilinx.com

Europe, Middle East, and Africa - eucases@xilinx.com

Asia Pacific including Japan - apaccase@xilinx.com

For technical support including the installation and use of the product license file, contact Xilinx Online Technical Support at www.xilinx.com/support. The following assistance resources are also available on the website:

- Software, IP and documentation updates
- Access to technical support web tools
- Searchable answer database with over 4,000 solutions
- User forums

7 Installing and Licensing Xilinx Software

7.1 Install Vivado Design Suite, WebPack Edition

The Zynq device on the MiniZed is supported in Vivado Design Suite, WebPack Edition. Version 2017.1 or later is required for the on-board USB-JTAG/UART circuit to work. See

www.xilinx.com/products/design-tools/vivado/vivado-webpack.html

This software can be downloaded online at:

www.xilinx.com/support/download/index.htm

Although free, WebPack still must be licensed. To obtain your free license, visit the following website and insert the voucher code from the certificate included in your kit:

http://www.xilinx.com/getlicense

If a full seat of Vivado System or Design Edition has already been installed, then no further software will be needed. Please check online for any updates at:

www.xilinx.com/support/download/index.htm

For detailed instructions on installing and licensing the Xilinx tools, please refer to the latest version of **Vivado Design Suite User Guide *Release Notes, Installation, and Licensing (UG973)***. The 2017.1 version is available on the Xilinx website at:

https://www.xilinx.com/support/documentation/sw_manuals/xilinx2017_1/ug973-vivado-release-notes-install-license.pdf