



Lattice Diamond 3.14 Patch 132427

Release Notes

Nov 8, 2024

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Patch Type:

Enhancement

Bug Fix

Who Should Install Patch 132427

Any customer that is designing for the LFE5U-12F device using Diamond 3.14 should install this patch. If you are not designing for the LFE5U-12F device, you do not need to install this patch.

Issues Fixed

This patch fixes an error in the Diamond 3.14 software where it incorrectly limits the number of PLLs in the device to zero. This prevents designs that use PLLs successfully completing the design flow. This error is displayed as a Map device oversize error related to PLL for LFE5U-12F devices.

Related CR's for Patch 132427

- SOF-132408: Designs passing on MAP at 3.13 is now failing on MAP at 3.14 with a device oversize error related to PLL.

Patch Requirements

Tool Version: Diamond 3.14.0.75.2

Other Patch Dependencies:

- None

Supported OS:

- Windows 10
- Windows 11
- Red Hat Enterprise Linux 8.8/7.9. The host operating system is supported in 64-bit only.
- Ubuntu 20.04/22.04

Target Fix Release: Diamond 3.15

Installation Instructions

Before installing this patch, ensure that Diamond and all other applicable service packs and patches are already installed. If Diamond or its required service packs and patches are not already installed, refer to the list below for the correct order to install the dependencies for this patch. Also ensure that no instances of Diamond are running before attempting to install this patch.

Installation Order

1. Diamond 3.14
2. Patch 131176

Note: a history of the installed patches can be found in the Diamond GUI, under Help > About > Installation History.

Installing the Patch on Windows

1. Unzip the patch.
2. Invoke the installer with Admin privileges by executing the <patch name>.exe file
3. Finish setting up the patch using the installer

Installing the Patch on Linux

1. Unzip the patch.
2. Change to the directory the patch installer is located at using the “cd <patch location>” command
3. Install the patch using the “sudo rpm -Uvh <Diamond patch name>.rpm” command
4. Finish setting up the patch using the installer

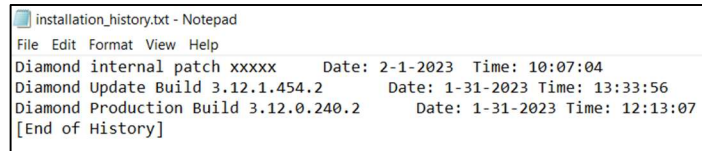
Note: only follow installation instructions for applicable operating systems

Verifying Patch Installation

Once a patch has been installed, the tool version history should update accordingly to reflect that the patch was successfully installed.

There are two ways to check patch installation history:

- Checking installation_history.txt
 1. Open the text file located at <base install path>/data/installation_history.txt
 2. The installation history will update to include an entry for the target patch number if the patch was successfully installed
 - For example, from **Figure 1** it can be seen that patch xxxxx was successfully installed



```
installation_history.txt - Notepad
File Edit Format View Help
Diamond internal patch xxxxx Date: 2-1-2023 Time: 10:07:04
Diamond Update Build 3.12.1.454.2 Date: 1-31-2023 Time: 13:33:56
Diamond Production Build 3.12.0.240.2 Date: 1-31-2023 Time: 12:13:07
[End of History]
```

Figure 1. installation_history.txt depicting successful patch installation

- Using the Diamond GUI
 1. Select **Help** → **About Lattice Diamond** from the Diamond toolbar

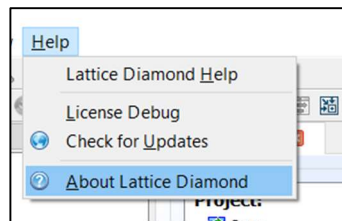


Figure 2. opening additional information about the active Lattice Diamond installation

2. Select the **Installation History** tab from the top of the popup window
3. The installation history will update to include an entry for the target patch number if the patch was successfully installed
 - For example, from **Figure 3** it can be seen that patch xxxxx was successfully installed

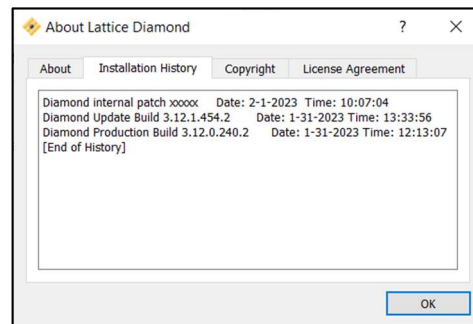


Figure 3. installation history in Diamond's GUI depicting successful patch installation

Technical Support

For assistance, submit a technical support case at www.latticesemi.com/techsupport.



www.latticesemi.com