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**PXIe-5632**

# ACTIVATION INSTRUCTIONS

# Time Domain Analysis for NI Vector Network Analyzers

Thank you for purchasing the Time Domain Analysis option for your NI vector network analyzer. To use the time domain feature on your device, complete the following steps to activate the Time Domain license:

1. Email your serial number and Time Domain purchase order number to [timedomain@ni.com](mailto:timedomain@ni.com). The serial number is printed on a label on the side of the device. Alternatively, you can use Measurement & Automation Explorer (MAX) to display your serial number by expanding the **Devices and Interfaces** section, and selecting the device you would like to activate.

After you send your serial number to the specified email address, NI responds with an activation key via an email to the email address that sent the request. Ensure that your email security settings can accept messages from [timedomain@ni.com](mailto:timedomain@ni.com).



**Note** Please allow up to three business days for your request to be processed.

2. Install the NI-VNA driver software according to Table 1. You can download NI-VNA from [ni.com/updates](http://ni.com/updates).

**Table 1.** Minimum Requirements for Time Domain Activation

	<b>NI PXIe-5630</b>	<b>NI PXIe-5632</b>
<b>NI-VNA Version</b>	1.1 or later	2.0 or later
<b>Firmware Version</b>	1.1 or later	1.0 or later

3. To verify the appropriate firmware is installed, complete the following steps:
  - a. Launch MAX.
  - b. Expand **Devices and Interfaces**, and select the device you wish to activate.
  - c. View the information that is displayed, including the Firmware Version.
  - d. If you do not have the correct version of the firmware installed, continue to step 4. If you have a compatible firmware version installed, skip to step 5.
4. To upgrade your firmware, complete the following steps:
  - a. Navigate to the following directory:  
 <IVI Foundation>\IVI\Drivers\niVNA\utilities\FwUpdater.
  - b. Double-click NIVNAUtilities.exe.
  - c. Select the device to upgrade from the dialog box that appears. If only one device is available, selecting a device is unnecessary.
  - d. Click the **Update Firmware** button.
  - e. Select the appropriate firmware file according to Table 2.

**Table 2.** Firmware File Locations

Device	Firmware File
NI PXIe-5630	<IVI Foundation>\IVI\Drivers\niVNA\utilities\FwUpdater\ni5630\Vesuvius_cfi_flash.bin
NI PXIe-5632	<IVI Foundation>\IVI\Drivers\niVNA\utilities\FwUpdater\ni5632\Krakatoa_cfi_Flash.bin

- f. Allow the firmware update process to complete before proceeding. Do not cycle the power during this update.
  - g. Restart the computer, and proceed with step 5.
5. After you receive the key, activate the feature using one of the following methods:
  - Use the NI-VNA Soft Front Panel (SFP) to enter your key by completing the following steps:
    - a. Launch the NI-VNA SFP.
    - b. Select **System>Diagnostics** from the Settings Panel.
    - c. Enter NIVNA as the password in the dialog box that appears, and click **OK**.
    - d. Select **Enable Time Domain** from the Settings Panel.
    - e. Enter the activation key in the dialog box, and click **OK**.

- Use MAX to enter your key by completing the following steps:
  - a. Launch MAX.
  - b. Select the module from your chassis tree item.
  - c. Verify that the Time Domain Status displays **Not Activated**.
  - d. Right-click the module, and select **Activate Feature** from the shortcut menu.
  - e. In the Activate Feature dialog box, use the **Pick a feature to activate** control to select **Time Domain**.
  - f. Enter the activation key, and click **OK**.
- In LabVIEW, call the niVNA Activate Feature VI and set the **feature** parameter to **Time Domain**. Enter the key as the value of the **activation key** parameter.
- In C or LabWindows™/CVI™, call the niVNA\_ActivateFeature function and set the feature parameter to NIVNA\_VAL\_TIME\_DOMAIN. Enter the key as the value of the **activationKey** parameter.



**Note** By activating Time Domain using one of the methods from step 5, you are permanently enabling the feature on the device. Therefore, Time Domain is still activated if you restart the system, open a new session, or move the device to a new chassis.

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