

# LCA Test Automation Plugin

This document contains latest information on the Keysight LCA Test Automation Plugin.

The LCA Test Automation plugin is a Test Automation Platform (TAP) based plugin that automates the basic Lightwave Component Analyzer (LCA) measurement capabilities with little effort, especially without the need of remote programming LCA and PNA individually.

## Keysight LCA Test Automation Plugin

The following table lists the supported hardware and software for the LCA Test Automation plugin.

Released Date:	March 29, 2019
Operating System:	Microsoft Windows 7 Microsoft Windows 8 Microsoft Windows 10
LCA	Keysight N4372E Lightwave Component Analyzer Keysight N4373E Lightwave Component Analyzer Keysight N4375E Lightwave Component Analyzer Keysight N4376E Lightwave Component Analyzer Keysight N4373D Lightwave Component Analyzer Keysight N4375D Lightwave Component Analyzer Keysight N4376D Lightwave Component Analyzer Keysight N4373C Lightwave Component Analyzer Keysight N4373B Lightwave Component Analyzer Keysight N4375B Lightwave Component Analyzer Keysight N4376B Lightwave Component Analyzer
PNA	All the PNA models that are supported by the LCA solution
Instrument Firmware	LCA software version 3.2.4.0 or later PNA software version 10.40.14 or later
Software Pre-requisites:	Keysight Test Automation Platform (TAP) version 8.8.78 or later
File Name:	LCA Test Automation.1.0.x.TapPackage

## Known Issues

- The PDF version of LCA Test Automation plugin help contains non-functioning cross-references. As a workaround, either visit the required sections using the bookmarks pane on the left or use the .chm (HTML Help) version for online use.

## Related Documents

For detailed information, refer to the following document for this application:

- “LCATestAutomationHelp.pdf” or “LCATestAutomationHelp.chm”. These documents can be found at the following location after you install the plugin:

C:\Program Files\Keysight\TAP8

OR

%TAP\_PATH%

- The Test Automation Platform (TAP) documents are also available at the above location. Alternatively, you can also visit [www.keysight.com/find/TAP](http://www.keysight.com/find/TAP) to find the additional and latest versions of TAP help documents.

## Installation Steps

To install the LCA Test Automation plugin, perform the following steps:

1. Review the [supported hardware and software](#) for the LCA Test Automation plugin.
2. Install PNA Proxy on the PC that will be running TAP and the LCA Test Automation plugin.
  - a. Locate the installer for the PNA proxy on the hard disk of the PNA instrument in any of these folders:
    - C:\Program Files (x86)\Agilent\Network Analyzer\Automation
    - C:\Program Files\Agilent\Network Analyzer\Automation
    - C:\Program Files (x86)\Keysight\Network Analyzer\Automation
    - C:\Program Files\Keysight\Network Analyzer\Automation
  - b. Copy PNAProxy.exe and PNAProxyX64.exe to the PC that will be running TAP.
  - c. Install the appropriate package (PNAProxy.exe for 32-bit operating systems and PNAProxyX64.exe for 64-bit operating systems). After installing the PNAProxy matching the operating system, it can be used by both 32-bit and 64-bit TAP installations in a similar manner.

**Note:** For using the LCA Test Automation plugin, it is not necessary to define a default computer name during PNAProxy installation.

3. Download and install Test Automation Platform (TAP) software from [www.keysight.com/find/TAP](http://www.keysight.com/find/TAP) (if not already done).
4. Search for the LCA Test Automation plugin on <https://www.keysight.com>.
5. Download and double-click the TapPackage file for the LCA Test Automation plugin to install it.

**Note:** Ensure that the TAP Package Manager is not running when you install the plugin.

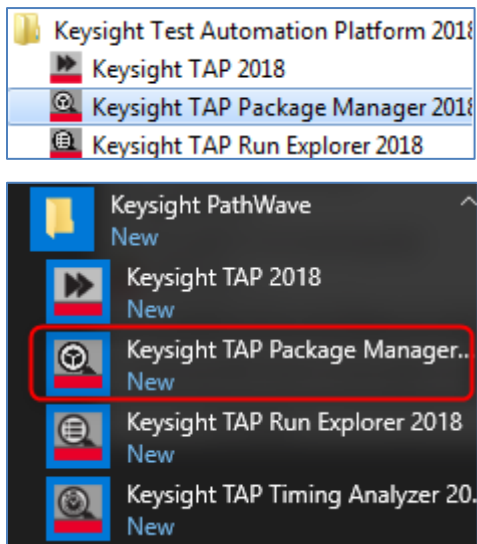
**Note:** The package (plugin installer file) file must be present on a local drive. Trying to install the plugin from a network share might indicate success, but actually the installation might not be successful.

6. Follow your company's procedure to get the license for using TAP and the following license for using the LCA Test Automation Plugin from Keysight.
  - N4370P01A
7. Install the required licenses via the Keysight License Manager.

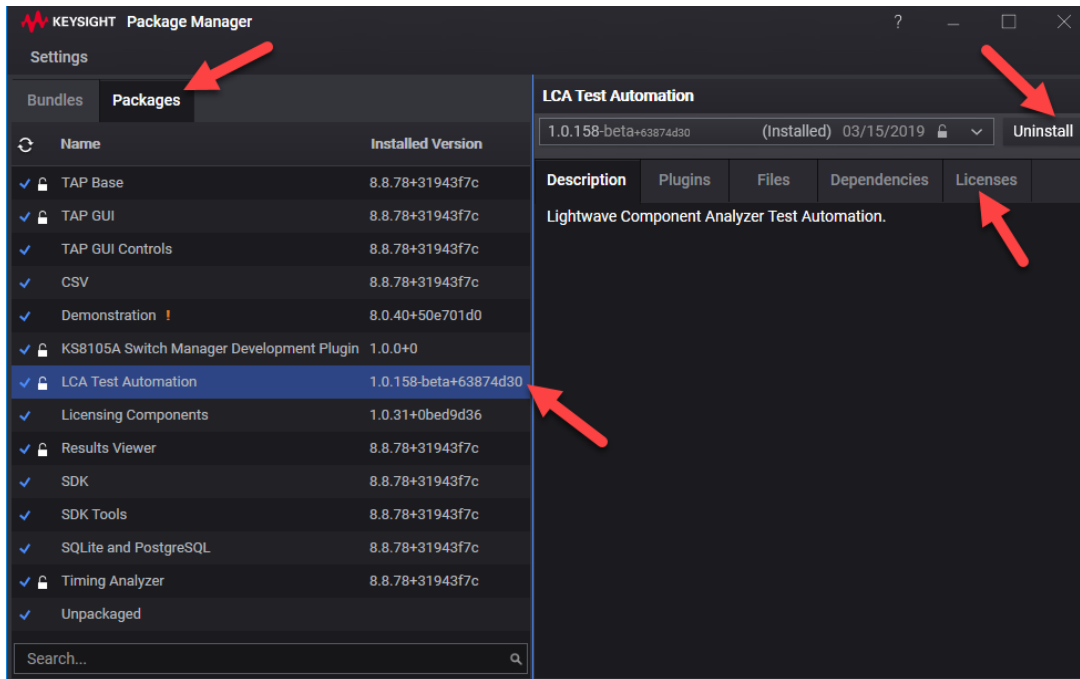
### Verifying the Installation

To check the availability of the installed plugin, perform the following steps:

1. Open the **TAP Package Manager** from Windows Start menu.



2. Click the **Packages** tab to view the list of available plugins. The following image shows the **LCA Test Automation Plugin** listed under the Packages tab.



**Note:** The **Installed Version** of the plugin on your machine might vary from what is displayed in the image above.

3. To view the information related to the required licenses and their installation status, click the **Licenses** tab in the right pane.
4. To uninstall the LCA Test Automation plugin, select it and click **Uninstall** in the right pane.

## Configuring DCOM Settings

Configure the DCOM settings on the PC running the LCA Test Automation plugin to enable remote access to the PNA.

1. From the command prompt, run **dcomcnfg.exe**.
2. Double-click the **Computers** folder in the Component Services window.
3. Right-click **My Computer** and select **Properties** from the context menu. Click the **Default Properties** tab.
4. Ensure that:
  - Enable Distributed COM on this computer check box is enabled.
  - Default Authentication Level drop-down list has the None option selected.
5. Click **Apply** or **OK** and acknowledge the warning. In case DCOM authentication settings have been changed from their default values on the PNA instrument, other settings might be

required. For detailed instructions, see

<https://na.support.keysight.com/pna/DCOMSecurity.html>

**Note:** Restart any running programs for changes to take effect.

## Getting Started with the LCA Test Automation Plugin

Using the LCA Test Automation plugin involves the following steps:

1. Start TAP.
2. Add Instruments and Result Listeners.
3. Set up Test Steps.
4. Set up Test Settings and Defaults.
5. Configure and execute Test Plans.
6. Work with results.

For more information, refer to the *Keysight LCA Test Automation Plugin Help*.