



Spectrum Spatial Analyst

Version 2022.1

App Linking Installation Guide

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App Linking Overview

Spectrum Spatial Analyst features functionality that enables integration with one or more external applications. An external application may be a document management system, property and ratings system, other GIS application or any other arbitrary application that can be started from the command line. Spectrum Spatial Analyst provides two-way application integration through Application Link-Outs and Application Link-Ins.

System Requirements for Windows

Pre-requisites

Please install the node.js prior to installing App Linking. You will need administrator privileges for installing it.

Spectrum Spatial Analyst needs to be enabled for accepting requests from node.js server on a common port.

Server Requirements

The following are the server requirements:

Operating Systems

- Windows

Additional Requirements

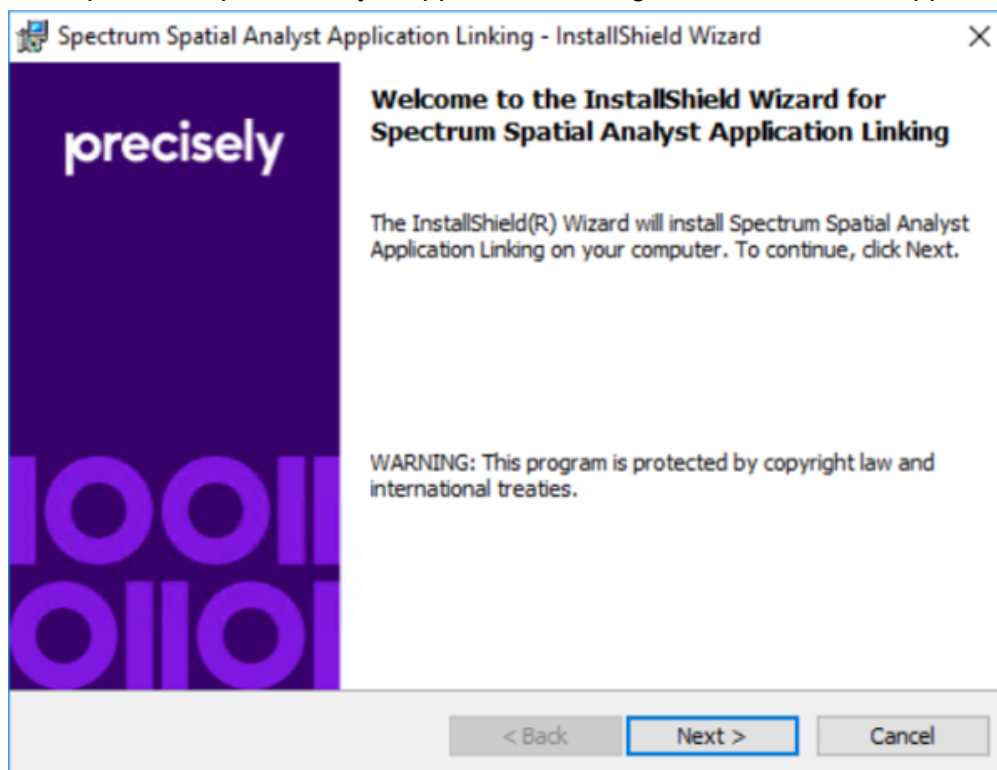
Administrator rights.

Application Linking Installer Setup

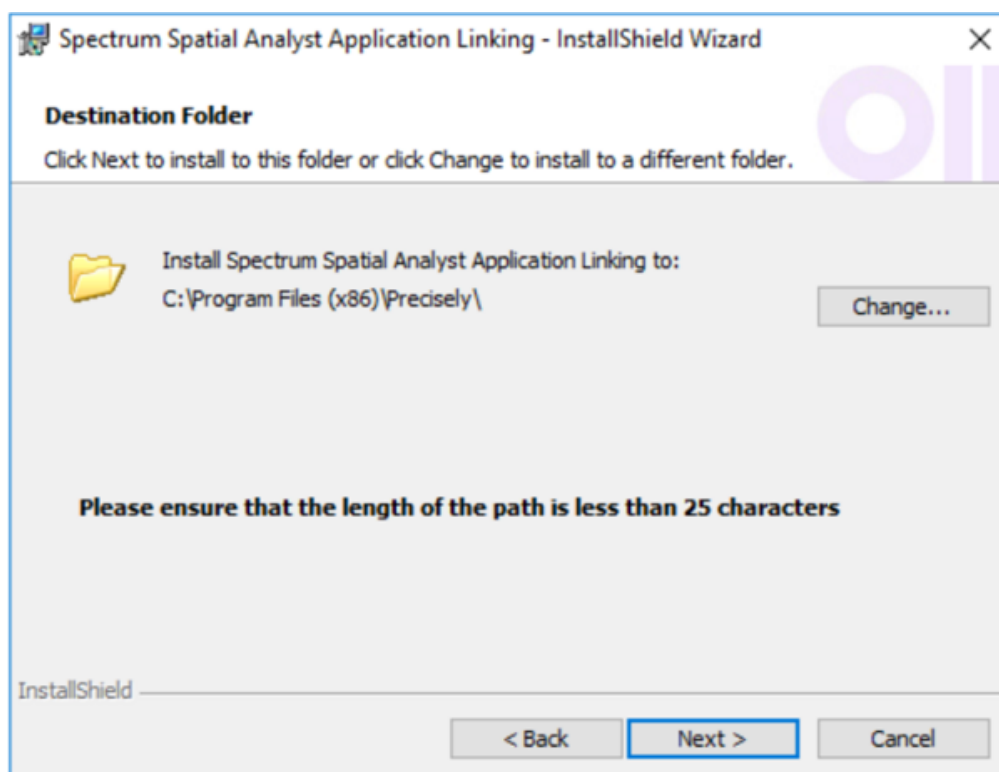
To install, follow the steps given below:

1. Unzip the downloaded installer file and double click on setup.exe to start the installation.

The Spectrum Spatial Analyst Application Linking Installation wizard appears.



2. Click **Next** to see the License Agreement screen. You must accept it in order to continue with installation.
3. Specify the installation location and click Next.

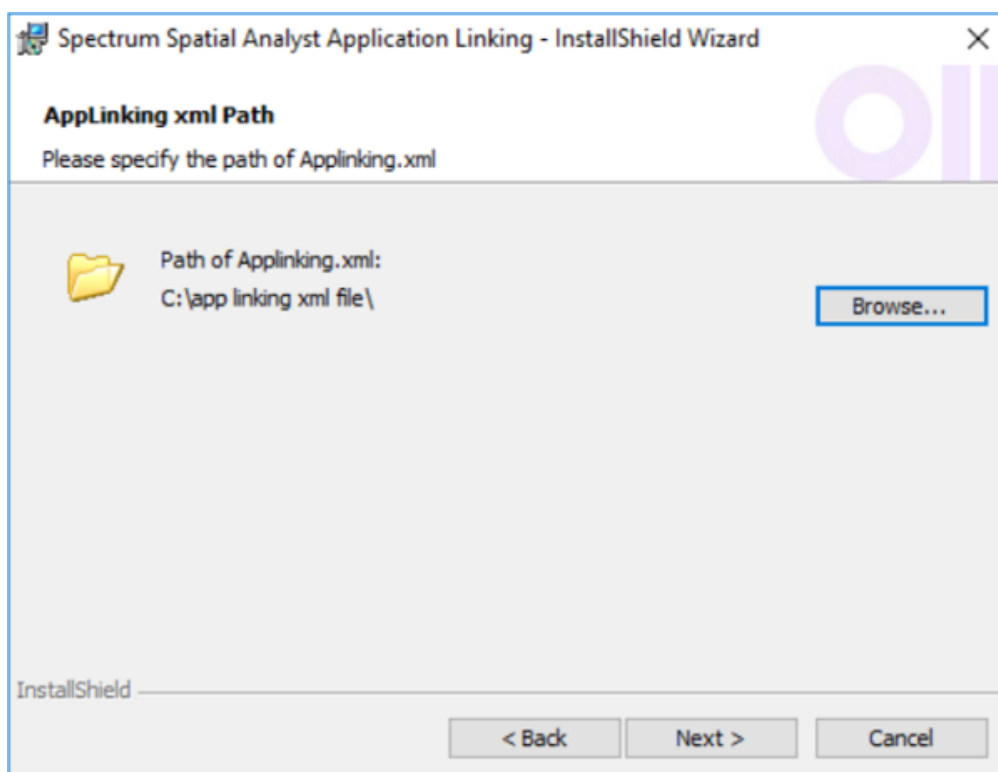


4. Specify the location where Applinking.xml file is residing. For example, `C:\APP_Linking_Demo`.

Note: The Applinking.xml file should be ready and available by now, it can be considered as a prerequisite for installing Applinking Installer.

Note: You can also create a dummy Applinking.xml file for the following step and can fill and update it later. But a valid, configured and ready Applinking.xml is an unavoidable prerequisite for this whole Applinking functionality to work properly. After every change to this file, Applinking utility or Node should be restarted.

The following location is provided in the InstallShield wizard.

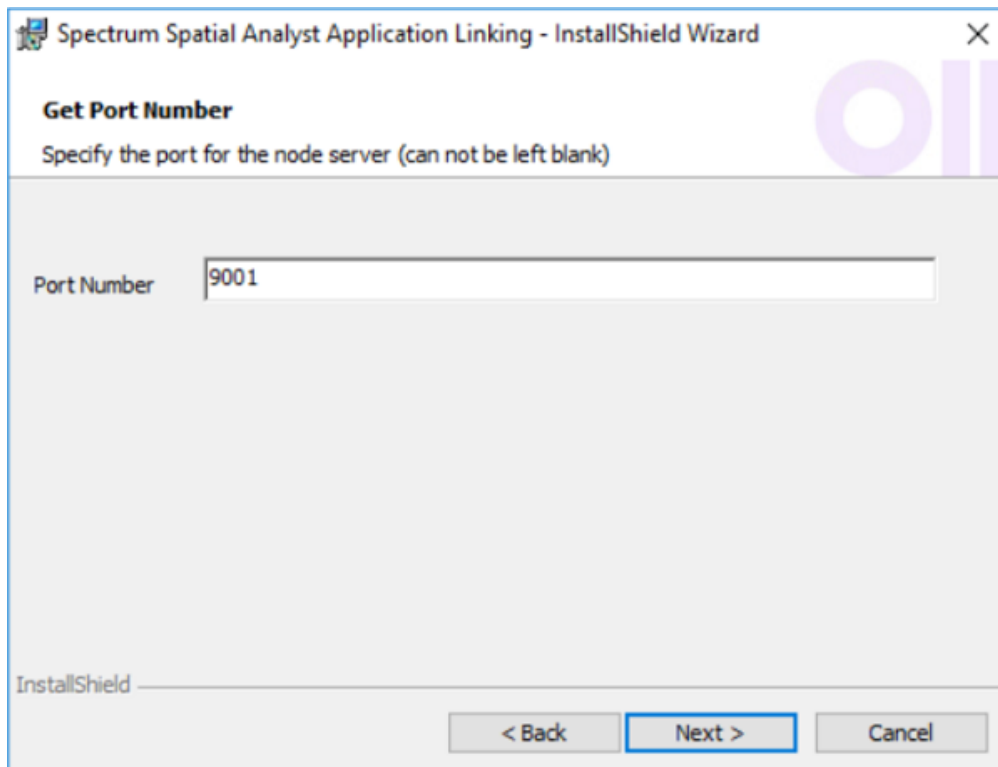


5. Click Next and provide a Port number.

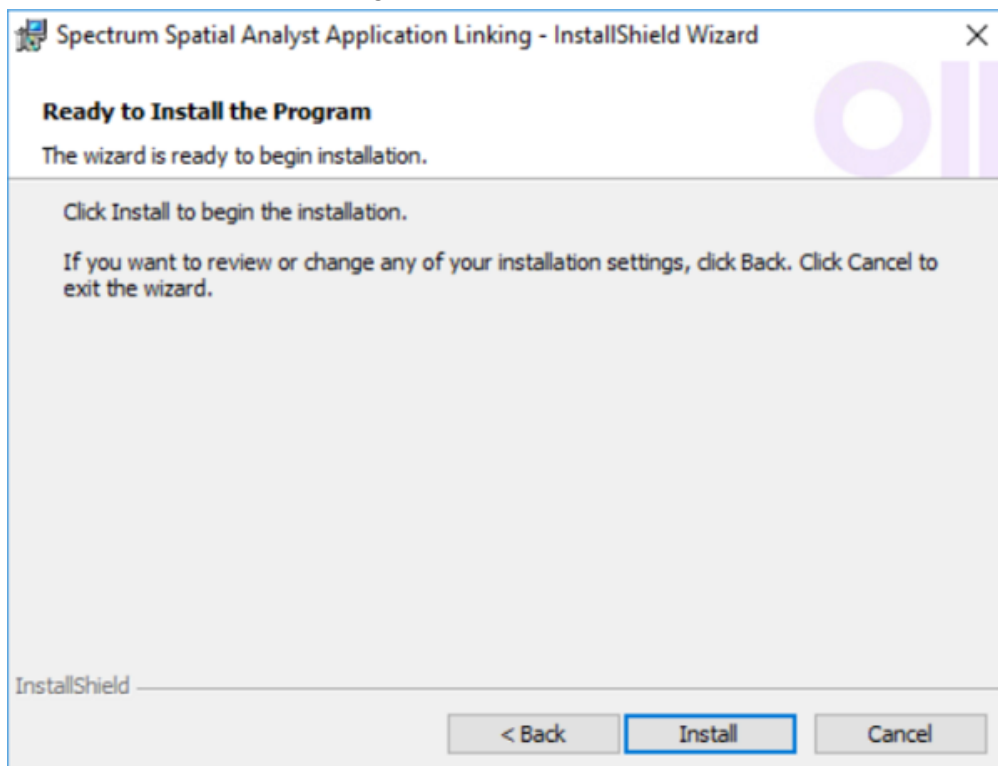
After installation of Applinking Installer, Node or Applinking utility will run on this specific port and this information is critical for further functioning of Applinking functionality (Link- Ins and Link-Outs).

Note: Port specified here should be similar to what has been specified in controller.properties file of Spectrum Spatial Analyst code.

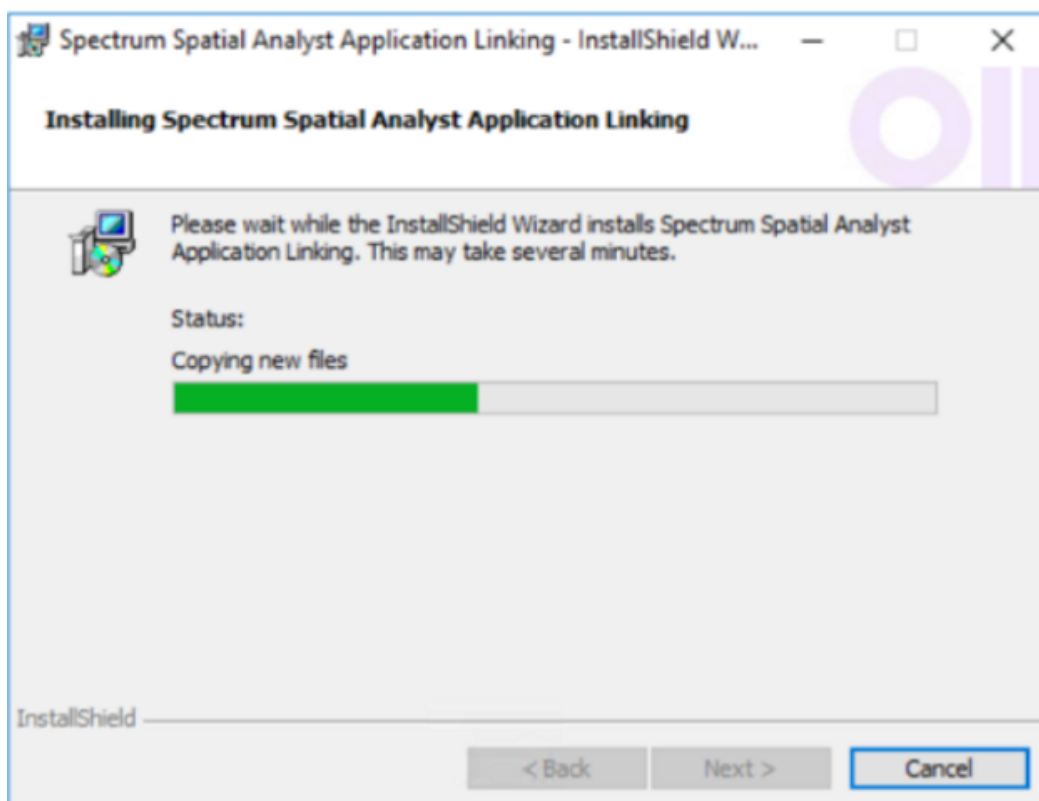
For Example- If the port has been specified as 9001 in Spectrum Spatial Analyst code as applicationLinkingHostPort=9001, then 9001 should be specified here as well in Applinking Installer. It is important for communication between Spectrum Spatial Analyst and App Linking Utility.



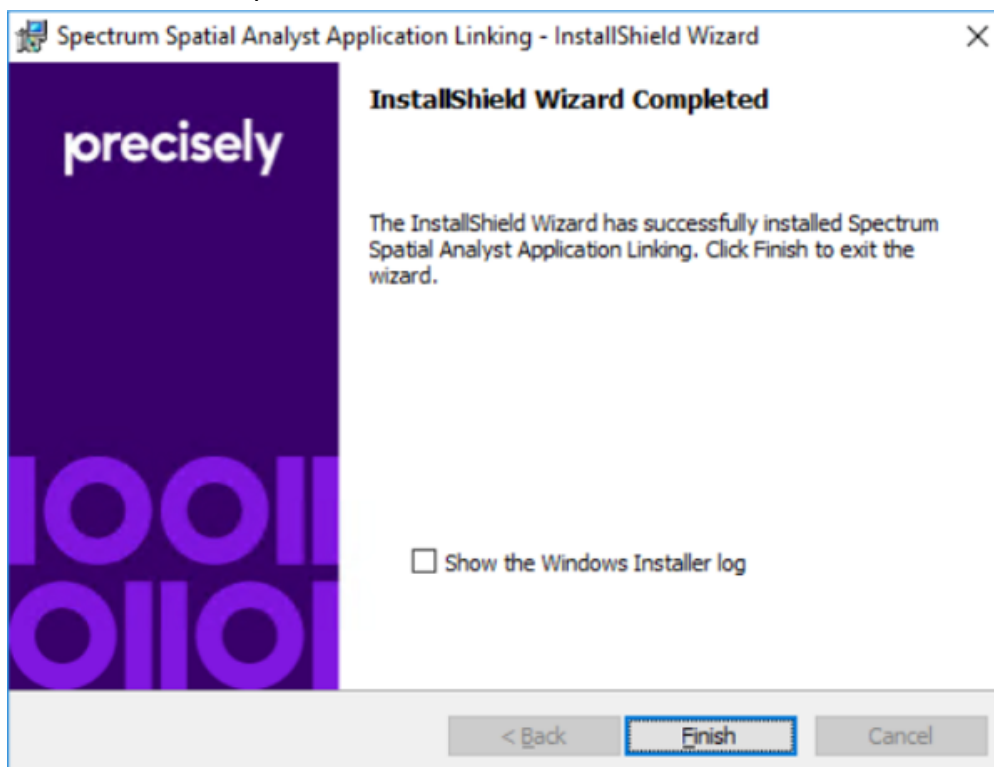
6. Click Install to install the program.



The installation process begins.



7. Click Finish to complete the installation and exit install wizard.



8. Go to your installation folder and edit `appLinking.properties` (under `NodePackage/`) file and update the `hostname:port` configuration for `hostOrigin`. For example,
`hostOrigin = https://analyst-server.exampledomain.com:8010`

The `hostOrigin` is the address of the Spectrum Spatial Analyst server. The same as is used to open Spectrum Spatial Analyst web interface in the browser.

There is an option for viewing Windows Installer logs to check and verify further details of installation.

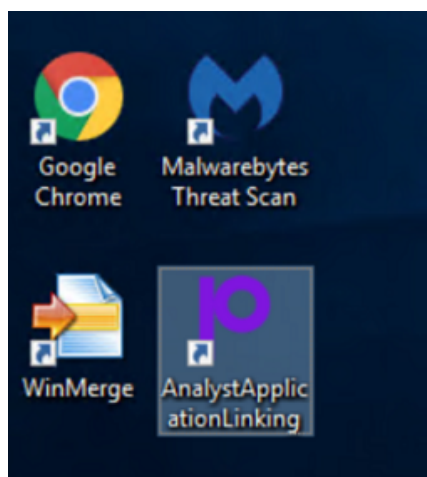
As a part of this installation following things get installed.

- Node.js
- necessary plugins\modules for it work properly
- Applinking Code

Note: - Though Applinking codebase comes with a default `Applinking.xml` as a part of its setup, but it is strongly recommended that user comes with his own or make sure that specified `Applinking.xml` is having desired configurations and information. Whatever information is specified in `Applinking.xml` will be input to Applinking utility and it will behave as is.

Running Applinking Application

To verify and proceed further, a shortcut for Applinking Installed utility can be found on desktop as shown here:



Double-click on `AnalystApplicationLinking` shortcut to start Applinking utility (which in-turn will run on Node.js). The Applinking command utility appears.


```

AnalystApplicationLinking
staticArgs: [ 'authorityprogram="i_pr005"', 'debug' ] },
{ linkOutName: 'ConfirmShowFeaturesLinkOut',
  bindingColumn: '',
  targetApp: 'C:\\Program Files (x86)\\MapInfo\\Technology Links\\TCLCONF\\Client\\GenericLink.exe',
  title: 'Parks Title with Null',
  staticArgs: [ 'authorityprogram="i_pr005"', 'debug' ] },
{ linkOutName: 'ConfirmShowFeaturesLinkOut',
  bindingColumn: 'Asset_Number',
  targetApp: 'C:\\Program Files (x86)\\MapInfo\\Technology Links\\TCLCONF\\Client\\GenericLink.exe',
  title: 'Parks Title with error',
  staticArgs: [ 'authorityprogram="i_pr005"', 'debug' ] },
{ linkOutName: 'ConfirmShowFeaturesLinkOut',
  bindingColumn: 'abcd',
  targetApp: 'C:\\Program Files (x86)\\MapInfo\\Technology Links\\TCLCONF\\Client\\GenericLink.exe',
  title: 'Parks Title with invalid bind column',
  staticArgs: [ 'authorityprogram="i_pr005"', 'debug' ] } ],
'/GR2TABFILEDATA/GR2T1/GR2TAB01':
[ { linkOutName: 'ConfirmShowFeaturesLinkOut',
  bindingColumn: 'Id',
  targetApp: 'C:\\Program Files (x86)\\MapInfo\\Technology Links\\TCLCONF\\Client\\GenericLink.exe',
  title: 'abc12',
  staticArgs: [ 'authorityprogram="i_pr005"', 'debug' ] } ],
'/GR2SQLDATA/GR2MS1/GR2MSSQL01':
[ { linkOutName: 'ConfirmShowFeaturesLinkOut',
  bindingColumn: 'Id',
  targetApp: 'C:\\Program Files (x86)\\MapInfo\\Technology Links\\TCLCONF\\Client\\GenericLink.exe',
  title: 'Databaind Linkout',
  staticArgs: [ 'authorityprogram="i_pr005"', 'debug' ] } ] }
[2020-09-23 13:33:53.237] [DEBUG] [default] - ***** Watcher @ location =D:\\Applinking 26July 19\\linkinfiledir

```



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