Manual Aras 3DV Installation

Aras Package Import provides a manual application installation process.

The installation procedure differs across Aras 3D Visualization components. The subsections of this section discuss the procedure for each component. The installation procedure should be performed for every component to be installed in the order discussed in the *Component Installation Order* section.

Manual Aras CAD Converter Installation

The following steps outline the process of manual Aras CAD Converter Installation:

1. In the unzipped Aras 3D Visualization 35 CD Image package, navigate to the following folder: `Aras 3D Visualization 35 CD Image\Packages\CADConverter.`
2. Copy the HOOPS Converter folder from the CADConverter package folder into a permanent location on a machine with the Conversion Server, for example, `C:\HOOPS Converter`.
3. Copy the `ConversionServer` folder from the `CADConverter` package folder to a folder that includes the `ConversionServer` folder with the installed Conversion Server.
4. Open the `ConversionServerConfig.xml` file in a text editor with an admin's privileges. This file is the root Aras Innovator code tree folder for the default installation. Do not confuse this file with the `ConversionServer.config` XML file in the `ConversionServer` folder with the Conversion Server.
5. In the child `sectionGroup name="ConverterSettings"` tag of the `configSections` tag, add the following section tags with attributes:

```
<configSections>
<sectionGroup name="ConverterSettings">
<section name="ArasCadConverter"
type="Aras.ConversionFramework.Converter.Hoops.Configuration.HoopsConverterConfi
ArasCadConverter"></section>
<section name="ArasCadConverterPrc"
type="Aras.ConversionFramework.Converter.Hoops.Configuration.HoopsConverterConfi
ArasCadConverter"></section>  <section name="DpnCadConverterStepJt"
type="Aras.ConversionFramework.Converter.Hoops.Configuration.HoopsConverterConfi
ArasCadConverter" />
</sectionGroup>
```

```
</configSections>
```

These new tags define the configurations of the new `ArasCadConverter` and `ArasCadConverterPrc` converters.

6. In the child Converters tag of the `ConversionServer` tag, add the following Converter tags with attributes:

```
<ConversionServer>
<Converters>
 <Converter name="Aras CAD to PDF Converter"
type="Aras.ConversionFramework.Converter.Hoops.HoopsConverter,
ArasCadConverter" />
 <Converter name="Aras PRC to SCS Converter"
type="Aras.ConversionFramework.Converter.Hoops.HoopsConverterPrc,
ArasCadConverter" />
 <Converter name="JT Step CAD Converter"
type="Aras.CadConverter.StepJtCadConverter, ArasCadConverter"
xdt:Transform="Insert"/>
</Converters>
</ConversionServer>
```

These new tags define the new converters. Such a tag specifies a DLL for a given converter and a Class within this DLL that performs the conversion.

7. In the `ConverterSettings` tag, add the following `ArasCadConverter` and `ArasCadConverterPrc` tags with child tags and attributes:

```
<ConverterSettings>
<ArasCadConverter>
<Application converterPath="C:\HOOPS Converter\bin\converter.exe"/>
```

```
 <Command arguments="--sc compute_bounding_boxes 'All' --
input pdf template file 'C:\HOOPS
Converter\templates\Blank Template L.pdf' --output pdf
'%filepath%\%filename%.pdf' --output png '%filepath%\%filename%.png' --
output png resolution '150x150' --output scs '%filepath%\%filename%.scs' -
-output xml assemblytree '%filepath%\%filename%.xml' --output prc
'%filepath%\%filename%.prc' --background color '1.0, 1.0, 1.0' --
output_logfile '%filepath%\%filename%.log'" />
 <Output>
 <UploadToVault>
 <File extension="prc" argsMarkers="--output_prc" />
 <File extension="scs" argsMarkers="--output_scs" />
 <File extension="pdf" argsMarkers="--output_pdf" />
 <File extension="png" argsMarkers="--output_png" />
 <File extension="stl" argsMarkers="--output_stl" />
 <File extension="xml" argsMarkers="--output_xml_assemblytree" />
 </UploadToVault>
 </Output>
 <AssemblyCommand dynamicEnabled="True" arguments="--
sc compute_bounding_boxes 'All' --input pdf template file 'C:\HOOPS
Converter\templates\Blank Template L.pdf' --output pdf
'%filepath%\%filename%.pdf' --output png '%filepath%\%filename%.png' --
output png resolution '150x150' --output scs '%filepath%\%filename%.scs' -
-output xml assemblytree '%filepath%\%filename%.xml' --output prc
'%filepath%\%filename%.prc' --background color '1.0, 1.0, 1.0' --
output_logfile '%filepath%\%filename%.log'" />
```

```
</ArasCadConverter>
<ArasCadConverterPrc>
<Application converterPath="C:\HOOPS Converter\bin\converter.exe"/>
<Command arguments="--output scs '%filepath%\%filename%.scs' --output xml assemblytree '%filepath%\%filename%.xml' --output_logfile '%filepath%\%filename%.log'" />
<Output>
<UploadToVault>
<File extension="prc" argsMarkers="--output_prc" />
<File extension="scs" argsMarkers="--output_scs" />
<File extension="pdf" argsMarkers="--output_pdf" />
<File extension="png" argsMarkers="--output_png" />
<File extension="stl" argsMarkers="--output_stl" />
<File extension="xml" argsMarkers="--output_xml_assemblytree" />
</UploadToVault>
</Output>
</ArasCadConverterPrc>
<DpnCadConverterStepJt>
<Application converterPath="/opt/exchange/bin/linux64"/>
<Parameters>
<Parameter key="JTVersion" value="8.1" /> <!-- Optional. Possible values: 8.1|9.5|10.0 -->
```

```
</Parameters>
```

```
</DpnCadConverterStepJt>
```

```
</ConverterSettings>
```

The `ArasCadConverter` and `ArasCadConverterPrc` tags set up the new converters.

The `converterPath` attributes should include the path to the converter.exe application in the HOOPS Converter folder copied in the third step.

The `--input_pdf_template_file` argument in the arguments attributes should include the path to the `Blank_Template_L.pdf` template file in the HOOPS Converter folder copied in the third step.

An entire `<… arguments="…" />` attribute must be only one single line without carriage returns or newlines.

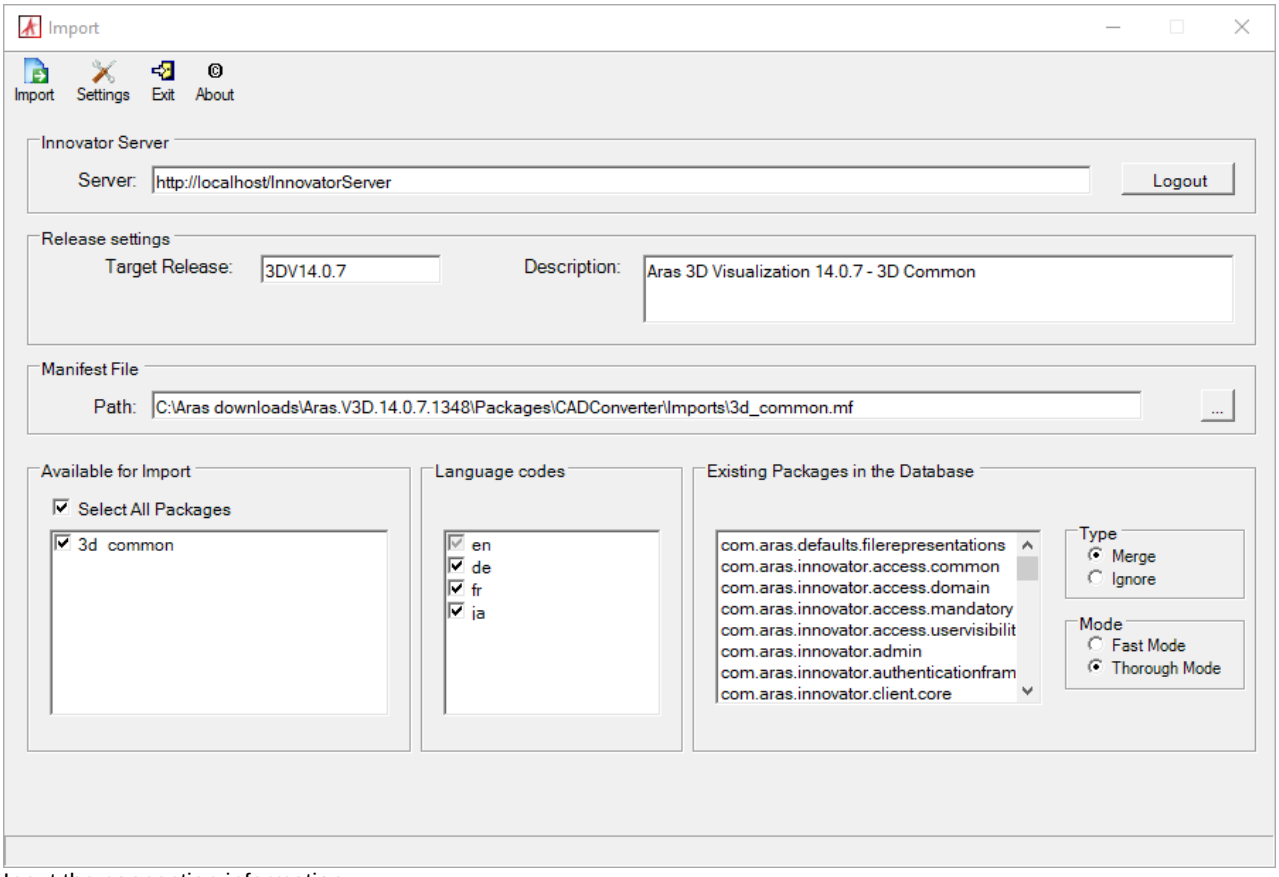
The child File tags of the `UploadToVault` tags enable the files of the given file types to be uploaded to the Vault and rendered correctly by the Viewer.

Capitalization differences, typos, extra newlines, and carriage returns in the `ConversionServerConfig.xml` file raise an error discussed in the 500.19 Internal Server Error section.

8. Save and close the `ConversionServerConfig.xml` file.
9. Restart the **Internet Information Services (IIS)**.

10. Import the Aras 3D Visualization 3D Common database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.

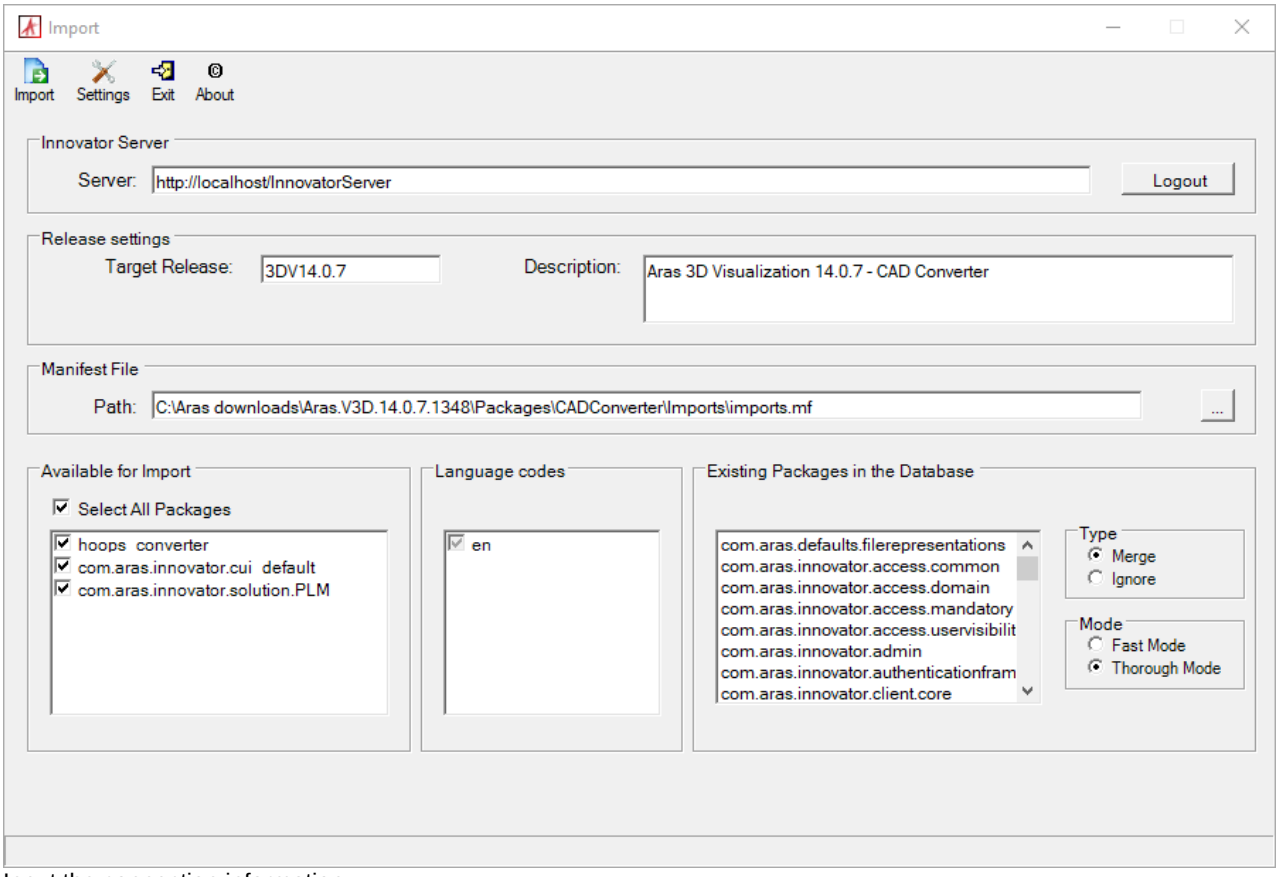
    1. Enable the **Super User** (**root**) login.
    2. Browse to the `\PackageImportExportUtilities\Import\` folder and run the **Import.exe** file.



3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/.
    - Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for “root” login (Default is “innovator”)
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 - 3D Common
    - **Manifest File Path**: The manifest file `\Packages\CADConverter\Imports\3d_common.mf`
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

11. Import the Aras 3D Visualization CAD Converter database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.

    1. Enable the **Super User** (**root**) login.
    2. Browse to the `\PackageImportExportUtilities\Import\` folder and run the **Import.exe** file.



3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/. Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for “root” login (Default is “innovator”)
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 - CAD Converter
    - **Manifest File Path**: The manifest file `\Packages\CADConverter\Imports\imports.mf`
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

12. Disable the **Super User** (**root**) login.

Important

The **Super User** (**root**) login should not be enabled in production.

13. This step is optional. Confirm the successful installation. See the *Confirming Aras 3DV Installation* section.
14. If the installation fails, restore the Aras Innovator code tree, Conversion Server, and database with the backups done before the installation and contact Aras Support at support@aras.com .

Manual Aras 3D Viewers Installation

The following steps outline the process of manual Aras 3D Viewer:

1. In the unzipped Aras 3D Visualization 35 CD Image\Packages\3DViewers folder:
2. Copy the Innovator folder from the 3DViewers package folder to the root Aras Innovator code tree folder where the Innovator folder exists.
3. Replace the files in the destination if it is prompted.

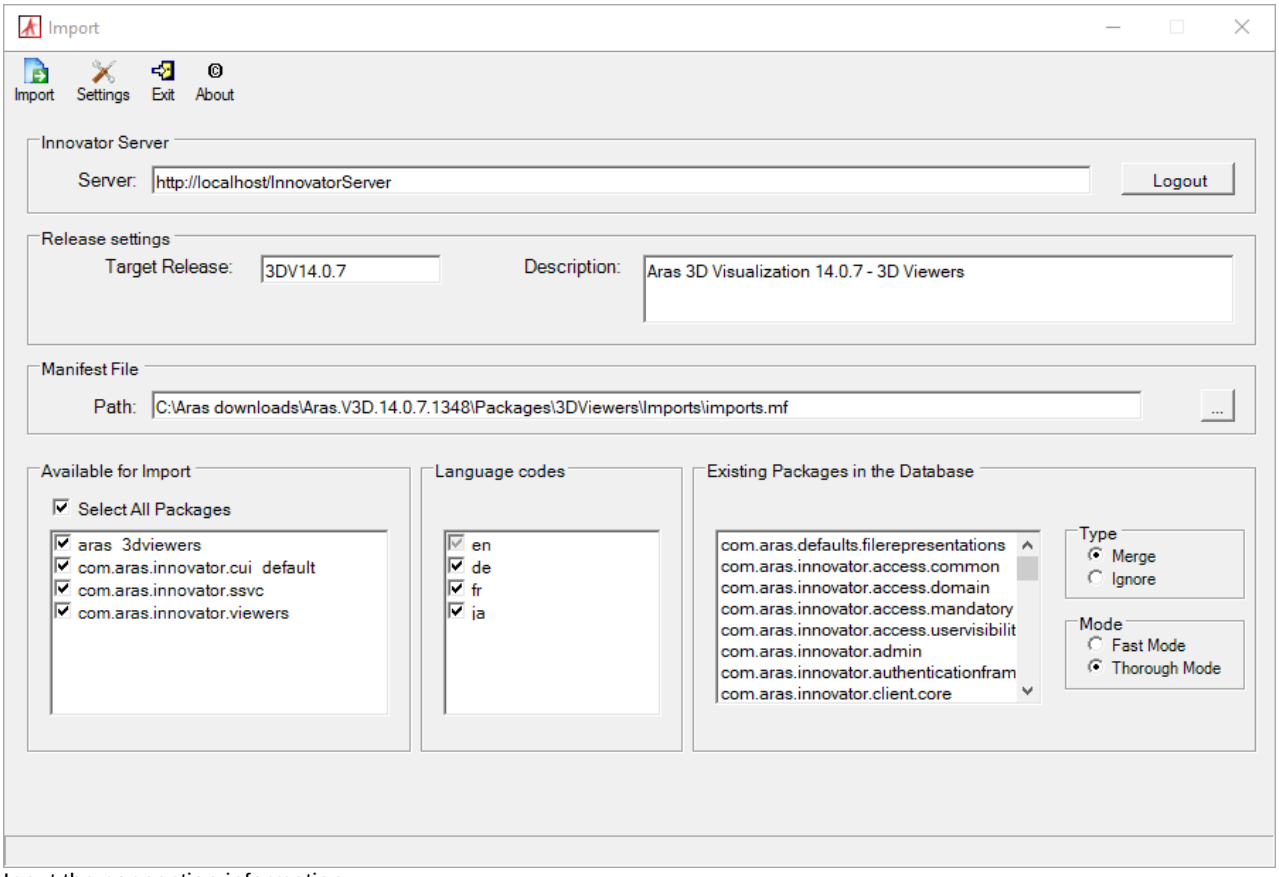
> **Important**
>
> It is recommended that a server administrator performs this step.

4. In the Aras Innovator code tree, navigate to \Innovator\Client and open the InnovatorClient.config file in a text editor run as an administrator.
5. In the cachingModule tag, change the value of the filesRevision attribute from std to 2. If it is already an integer, change it to a next higher value; for example, from 2 to 3:

```
<configuration>
...
<cachingModule moduleEnabled="true" filesRevision="2" />
...
</configuration>
```

Such value modification reloads the cache. If the cache is not reloaded after the Aras 3DV installation, the Aras 3DV UI may not be displayed correctly; for example, icons can be absent.

6. Save and close the InnovatorClient.config file.
7. Import the Aras 3D Visualization 3D Viewers database package with the **Package Import Export Utilities**. For more information using this tool, refer to the Aras Innovator 35 – Package Import Export Utilities documentation.
    1. Enable the **Super User** (**root**) login.
    2. Browse to the \PackageImportExportUtilities\Import\ folder and run the **Import.exe** file.



3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/. Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for “root” login (Default is “innovator”)
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 - 3D Viewers
    - **Manifest File Path**: The manifest file `\Packages\3DViewers\Imports\imports.mf`
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

8. Disable the **Super User** (**root**) login.

Important

The **Super User** (**root**) login should not be enabled in production.

9. This step is optional. Confirm the successful Aras 3D Viewers installation. See the Confirming Aras 3DV Installation section.
10. If the installation fails, restore the Aras Innovator code tree and database with the backups done before the installation and contact Aras Support at support@aras.com .

Manual Aras Dynamic Visualization Installation

The following steps outline the process of Manual Aras Dynamic Visualization Installation:

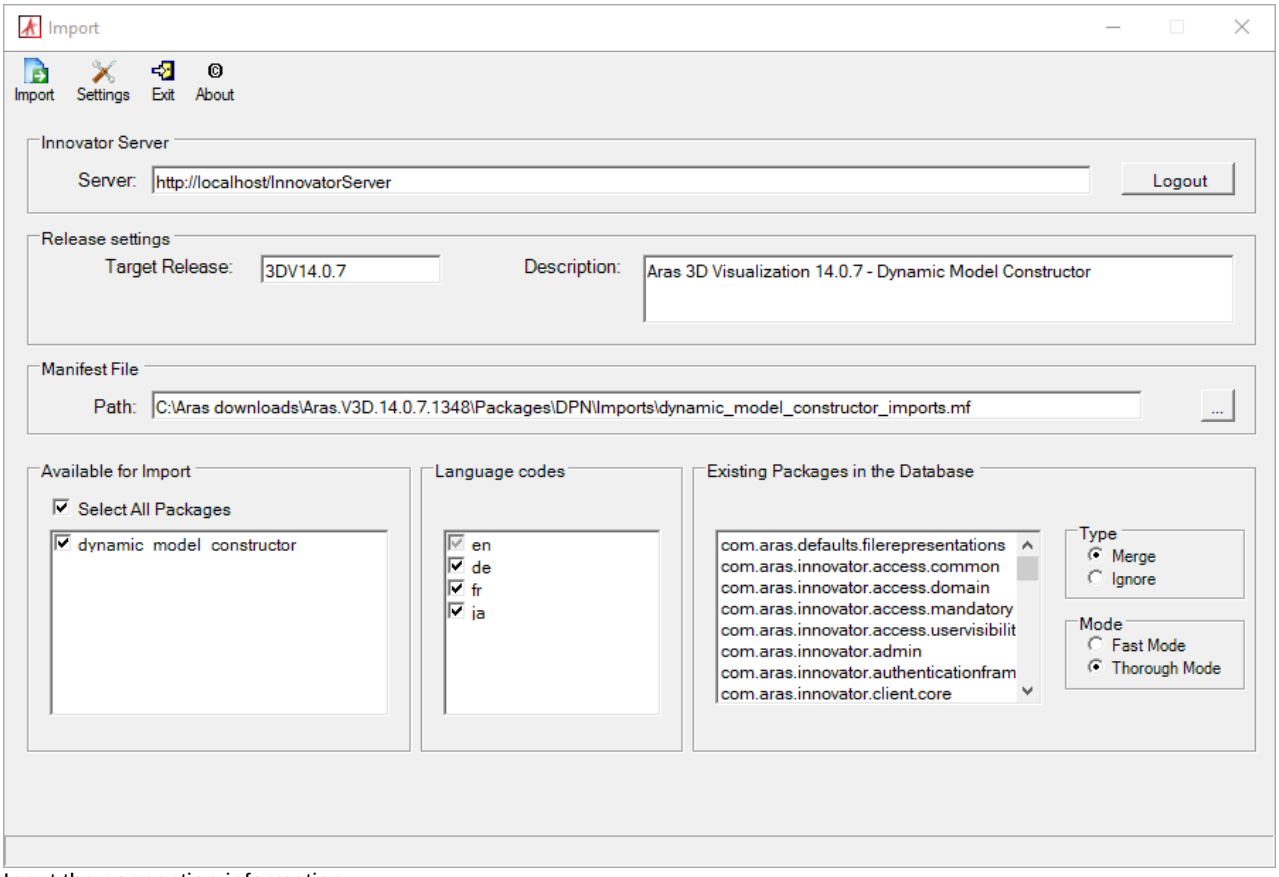
1. In the unzipped Aras 3D Visualization 35 CD Image package, navigate to the following folder:
   `Aras 3D Visualization 35 CD Image\Packages\DPN`
2. Copy the Innovator folder from the DPN package folder to the root Aras Innovator code tree folder that includes the Innovator folder.
3. Replace the files in the destination if the system prompts.

> **Important**
>
> It is recommended that a server administrator performs this step.

4. In the Aras Innovator code tree, navigate to \Innovator\Server and open the `method-config.xml` file in a text editor run as administrator.
5. In the `ReferencedAssemblies` tag, add the following child name tags:

```
<ReferencedAssemblies>
...
<name>$(binpath)/Aras.DynamicModelViewer.Core.dll</name>
<name>$(binpath)/Aras.DynamicModelViewer.DataModel.dll</name>
<name>$(binpath)/Aras.DynamicModelViewer.QueryProcessor.dll</name>
<name>Microsoft.Extensions.Logging.dll</name>
</ReferencedAssemblies>
```

6. Save and close the `method-config.xml` file.
7. Restart the **Internet Information Services (IIS)**.
8. Import the Aras 3D Visualization Dynamic Model Constructor database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.
   1. Enable the **Super User** (**root**) login.
   2. Browse to the `\PackageImportExportUtilities\Import\` folder and run the **Import.exe** file.

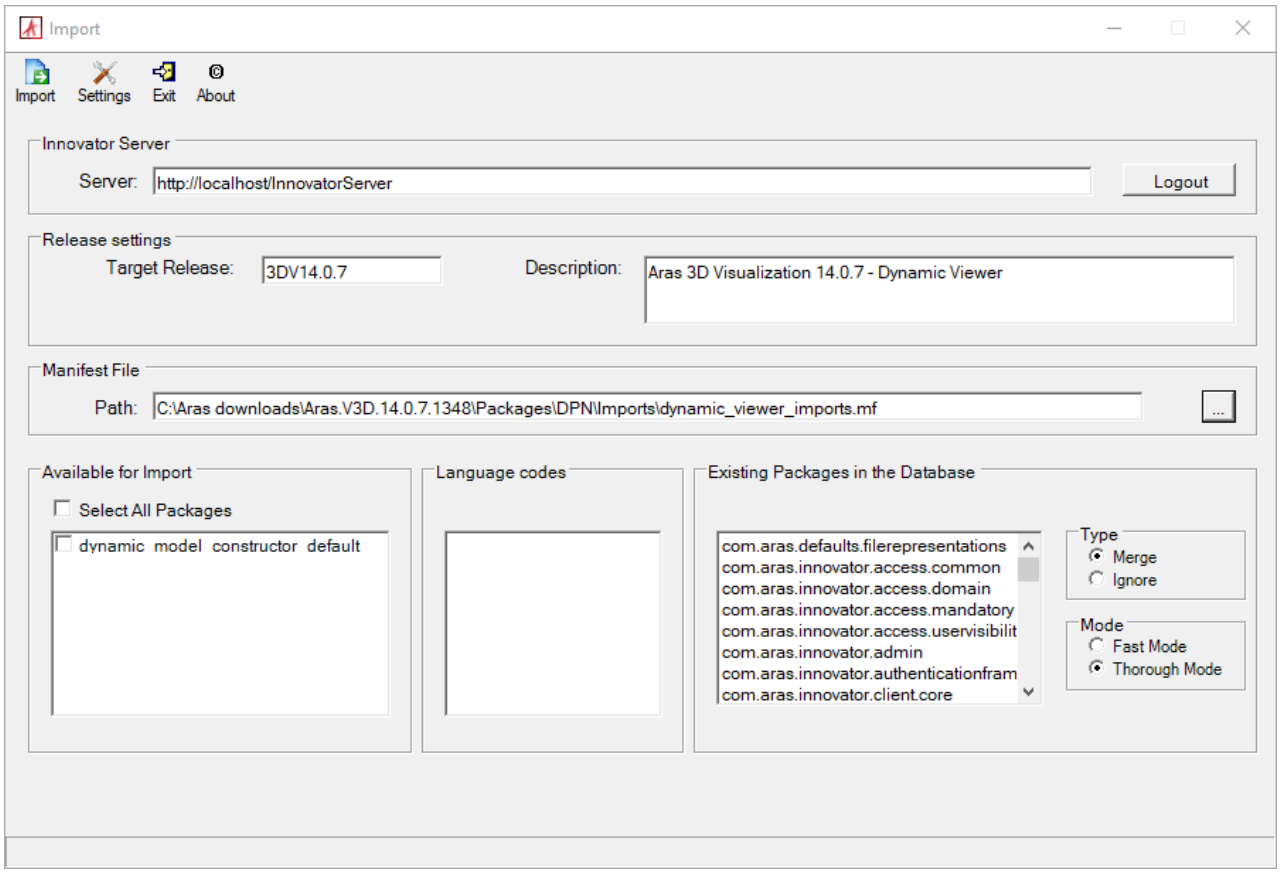


3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/. Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for “root” login (Default is “innovator”)
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 – Dynamic Model Constructor
    - **Manifest File Path**: The manifest file
      ```
      \Packages\DPN\Imports\dynamic_model_constructor_imports.mf
      ```
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

9. Import the Aras 3D Visualization Dynamic Viewer database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.

    1. Enable the **Super User** (**root**) login.

2. Browse to the `\PackageImportExportUtilities\Import\ f` older and run the **Import.exe** file.



3. Input the connection information.
   - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/. Click the **Login** button and enter:
     - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
     - **Username**: root
     - **Password**: Password for “root” login (Default is “innovator”)
   - **Target Release**: 3DV14.0.8
   - **Description**: Aras 3D Visualization 14.0.8 - Dynamic Viewer
   - **Manifest File Path**: The manifest file `\Packages\DPN\Imports\dynamic_viewer_imports.mf`
   - **Available for Import**: Select All Packages
   - **Type**: Merge
   - **Mode**: Thorough Mode
4. Click the **Import** button.

10. Disable the **Super User** (**root**) login.

Important

The **Super User** (**root**) login should not be enabled in production.

11. This step is optional. Confirm the successful Aras Dynamic Visualization installation. See the *Confirming Aras 3DV Installation* section.
12. If the installation fails, restore the Aras Innovator code tree and database with the backups done before the installation and contact Aras Support at support@aras.com .

Manual Aras Streaming Viewer Installation

Important

Please note that the output files of Dynamic/Monolithic Viewer and Streaming Viewer are incompatible with one another. If the Streaming 3D Viewer is installed in an environment where the Monolithic or Dynamic 3D Viewers have been previously installed and used, all existing native files of existing CAD Documents need to be re-converted. There is no automated means to perform this reconversion.

The Streaming Viewer currently cannot be deployed in a cloud environment. The HOOPS Server must be deployed with networked file access to a single vault containing view files for rendering.

Important

Only one Streaming Viewer can be installed on one machine at a time.

The following steps outline the process of manual installation of Aras 3DV Streaming Viewer:

1. In the unzipped **Aras 3D Visualization 35 CD Image** package, navigate to the following folder: `Aras 3D Visualization 35 CD Image\Packages\HOOPS Server`
2. Copy the `HOOPS Server` folder from **HOOPS Sever** package to a permanent location on a machine. For example, `C:\HOOPS Server`
3. In the `HOOPS Server` folder, go to `C:\HOOPS Server\server\node` and open `Config.js` file in a text editor run as administrator
4. For `publicHostname` parameter replace `" localhost "` value with the IP Address of the local machine. For example, `publicHostname: "10.188.182.38"`

```
var config = {
    // The port for the spawn-server REST and proxy calls. Note that setting this to 0 or null will disable the
    // the spawn-server, which may help with troubleshooting.
    spawnServerPort: 11182,

    // The hostname to use for broker-connection stream-cache servers or when enabling SSL.
    // This field can be used to generate endpoints containing a public DNS or IP address.
    // If not specified, the system will attempt to determine an appropriate value.
    // This value has no effect when using proxying unless SSL is enabled.
    // When SSL is enabled, this hostname must be verifiable against the supplied
    // certificate chain.
    publicHostname: "10.188.182.38",
```

5. For `communicatorDir` parameter enter the path to `Hoops Server` directory created in the third step. For example, `communicatorDir: "C:/Hoops Server"`

```
121     // Points to the root of the communicator package, can be relative or absolute. If it's
122     // relative, then it's relative to the root of the server/node directory.
123     communicatorDir:"C:/HOOPS_Server",
```

6. For `modelDirs` parameter, enter the path to Aras Innovator instance Vault.

For example, `modelDirs: ["C:/Aras/Vault/14SP10",]`

```
129     // Array of directories that contain the models available to the stream-cache servers.
130     // Any relative directories are relative to 'communicatorDir'
131     // Note that SCS models are not delivered by the spawn server, thus the paths are not included
132     modelDirs: ["C:/Aras/Vault/14SP10",
133         "./quick_start/converted_models/user/sc_models",
134         "./quick_start/converted_models/authoring_samples_data",
135         "./quick_start/converted_models/standard/sc_models",
136     ],
```

7. Set the `windowsServiceRespawnEnabled` parameter to true.

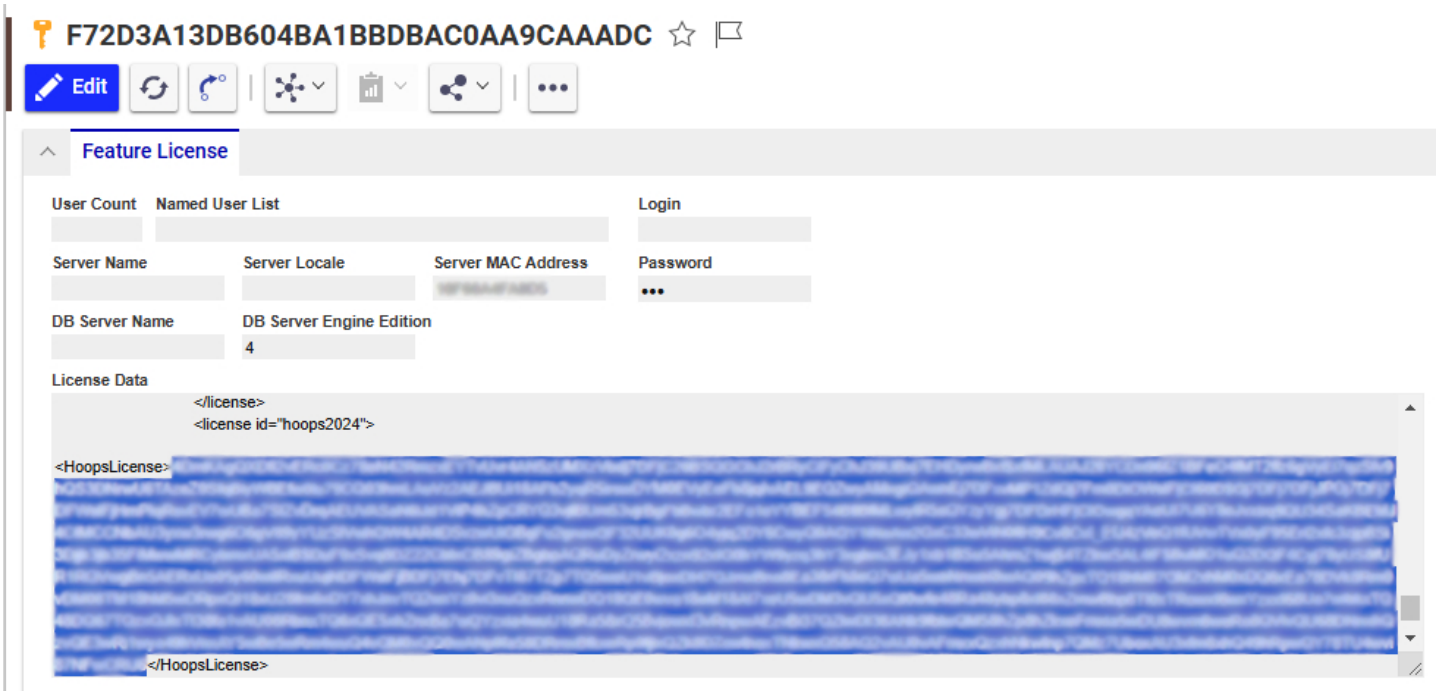
```
267     // See https://docs.microsoft.com/en-us/windows/win3
268     windowsServiceRespawnEnabled: true,
```

Important

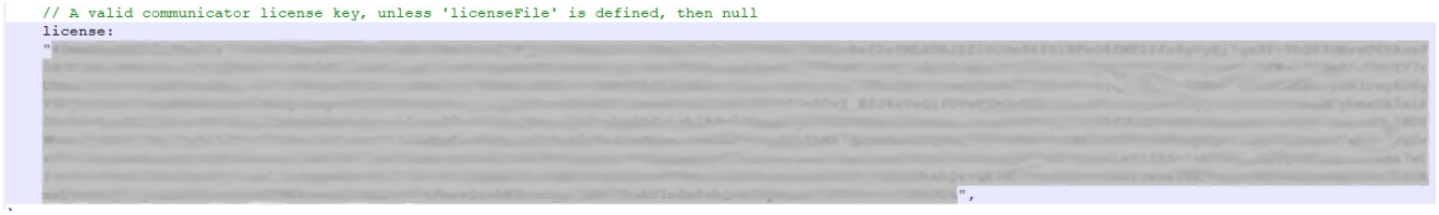
If the server where Streaming Viewer is installed has Graphic Processing Unit (GPU), then the windowsServiceRespawnEnabled parameter in the Config.js file should be set to false.

8. Copy the **Aras.CADConverter3** license from the Feature Licenses. Only copy the content from the <HoopsLicense> tag for the latest available version, for example:

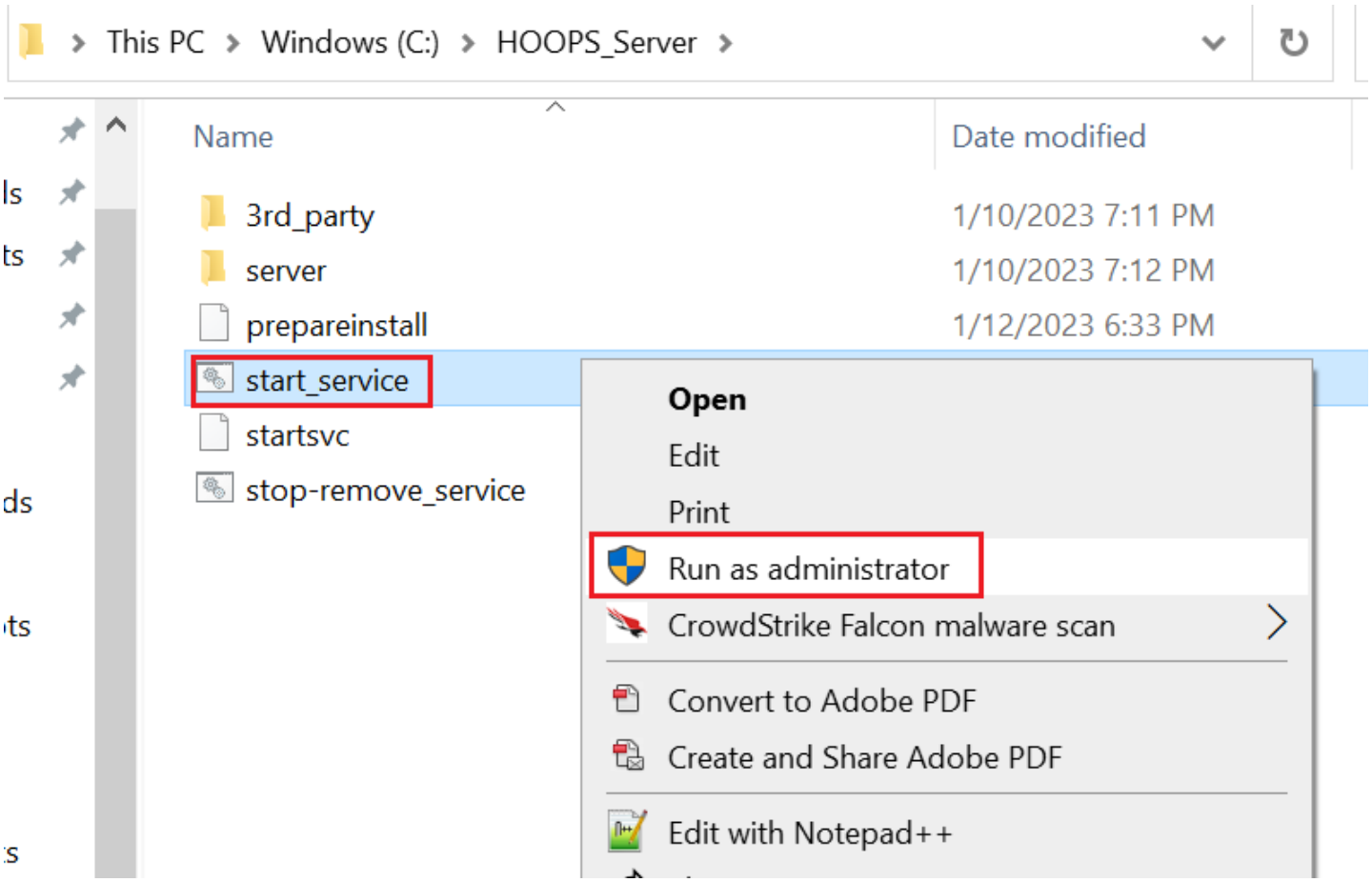
```
<HoopsLicense>4E...xeR</HoopsLicense>
```



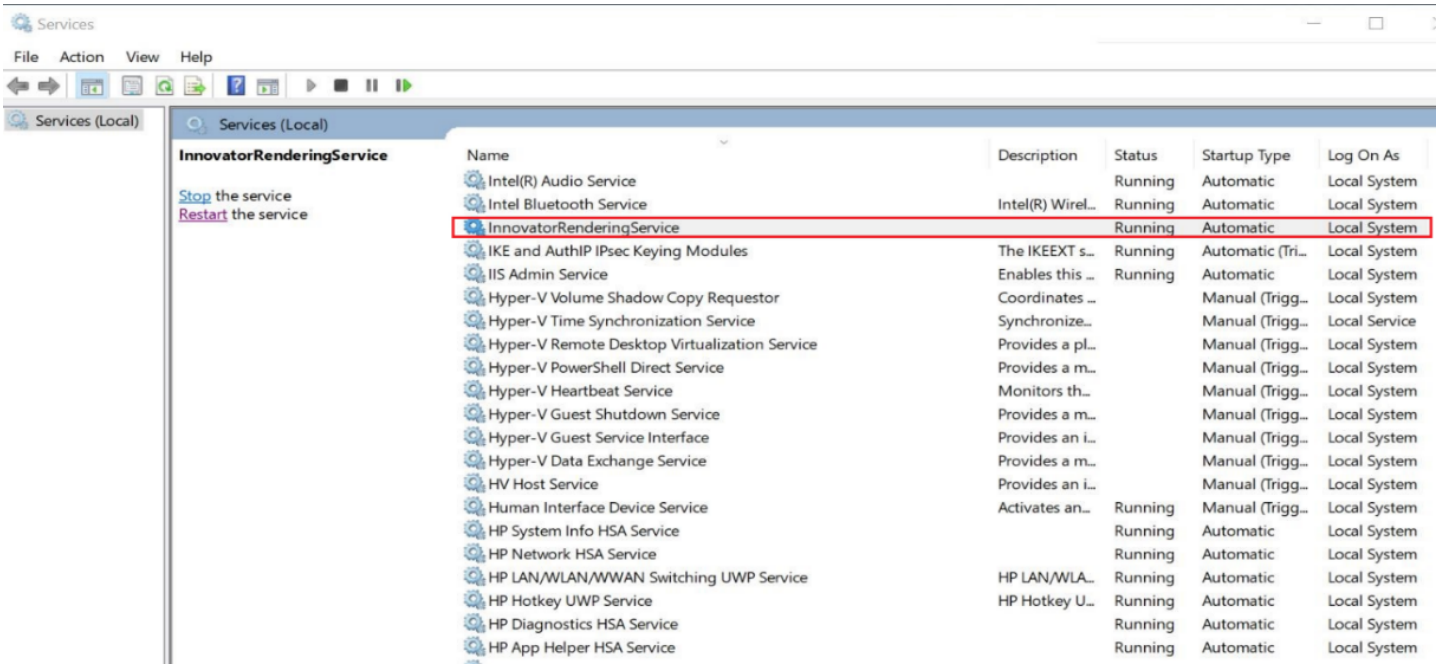
9. In the `Config.js` file, for the `license` parameter, replace it with the newest license copied from the previous step.



10. Save the `Config.js` file.
11. In the `Hoops Server` folder, right-click `start_service` file and select **Run as Administrator**.



12. Open Windows **Services** and check if **InnovatorRenderingService** is added and is running.



13. Copy the `ConversionServer` folder from the `CADConverter` package folder (`Aras 3D Visualization 33 CD Image\Packages\CADConverter`) to a folder that includes the `ConversionServer` folder with the installed Conversion Server.
    Replace the files in the destination if the system prompts.
14. Open `ConversionServerConfig.xml` file in a text editor run as administrator. This file is in the root Aras Innovator code tree folder in the case of the default installation.
15. In the `<sectionGroup>` tag, add the following:

```
 <section name="ArasCadConverter"
type="Aras.ConversionFramework.Converter.Hoops.Configuration.HoopsConverterConfi
ArasCadConverter"> </section>
 <section name="ArasCadConverterPrc"
type="Aras.ConversionFramework.Converter.Hoops.Configuration.HoopsConverterConfi
ArasCadConverter"> </section>
```

16. In the < `Converters` > tag, add the following:

```
 <Converters>
 <Converter name="Aras CAD to PDF Converter"
type="Aras.ConversionFramework.Converter.Hoops.HoopsConverter,
ArasCadConverter" /> <Converter name="Aras PRC to SCS Converter"
type="Aras.ConversionFramework.Converter.Hoops.HoopsConverterPrc,
```

```
ArasCadConverter" />
 </Converters>
```

17. In the < `ConverterSettings` > tag, add the following:

```
 <ConverterSettings>
 <!-- Place here configuration sections for converters -->
 <ArasCadConverter>
 <Application
converterPath="C:\Aras\14SP10\HOOPSConverter\bin\converter.exe" />
 <Command arguments="--sc compute bounding boxes 'All' --
input pdf template file 'C:\Aras\ Innovator Server Name\HOOPS
Converter\Templates\Blank Template L.pdf' --output pdf
'%filepath%\%filename%.pdf' --output png '%filepath%\%filename%.png' --
output png resolution '150x150' --output sc '%filepath%\%filename%' --
sc create scz 'True' --sc compress scz 'false --output xml assemblytree
'%filepath%\%filename%.xml' --output prc '%filepath%\%filename%.prc' --
background color '1.0, 1.0, 1.0' --output_logfile
'%filepath%\%filename%.log'" />
 <Output>
 <UploadToVault>
 <File extension="prc" argsMarkers="--output_prc" />
 <File extension="scs" argsMarkers="--output_scs" />
 <File extension="pdf" argsMarkers="--output_pdf" />
 <File extension="png" argsMarkers="--output_png" />
 <File extension="stl" argsMarkers="--output_stl" />
```

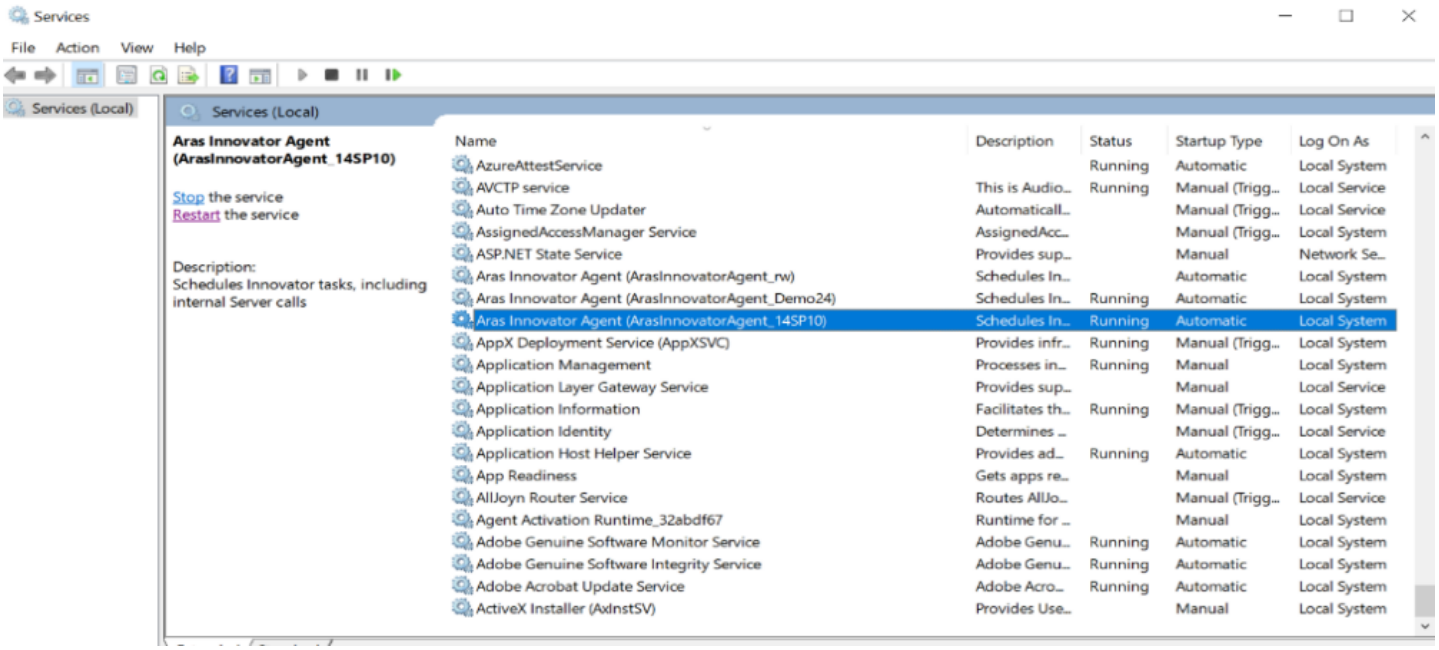
```
<File extension="xml" argsMarkers="--output_xml_assemblytree" />
<File extension="scz" argsMarkers="--output_sc" />
</UploadToVault>
</Output>
<AssemblyCommand arguments="--sc compute bounding boxes 'All' --input pdf template file 'C:\Aras\Innovator Server Name\HOOPS Converter\Templates\Blank Template L.pdf' --output pdf '%filepath%\%filename%.pdf' --output_png '%filepath%\%filename%.png' --output png resolution '150x150'  --sc create scz 'true' --sc compress scz 'false' --output xml assemblytree '%filepath%\%filename%.xml' --output_prc '%filepath%\%filename%.prc' --background color '1.0, 1.0, 1.0' --output_log file '%filepath%\%filename%.log'" streamingEnabled="True"/>
</ArasCadConverter>
<ArasCadConverterPrc>
<Application converterPath="C:\Aras\ Innovator Server Name \HOOPS Converter\bin\converter.exe" />
<Command arguments="--output scs '%filepath%\%filename%.scs' --output xml assemblytree '%filepath%\%filename%.xml' --output_logfile '%filepath%\%filename%.log'" />
<Output>
<UploadToVault>
<File extension="prc" argsMarkers="--output_prc" />
<File extension="scs" argsMarkers="--output_scs" />
<File extension="pdf" argsMarkers="--output_pdf" />
```

```
<File extension="png" argsMarkers="--output_png" />
<File extension="stl" argsMarkers="--output_stl" />
<File extension="xml" argsMarkers="--output_xml_assemblytree" />
</UploadToVault>
</Output>
</ArasCadConverterPrc>
</ConverterSettings>
```

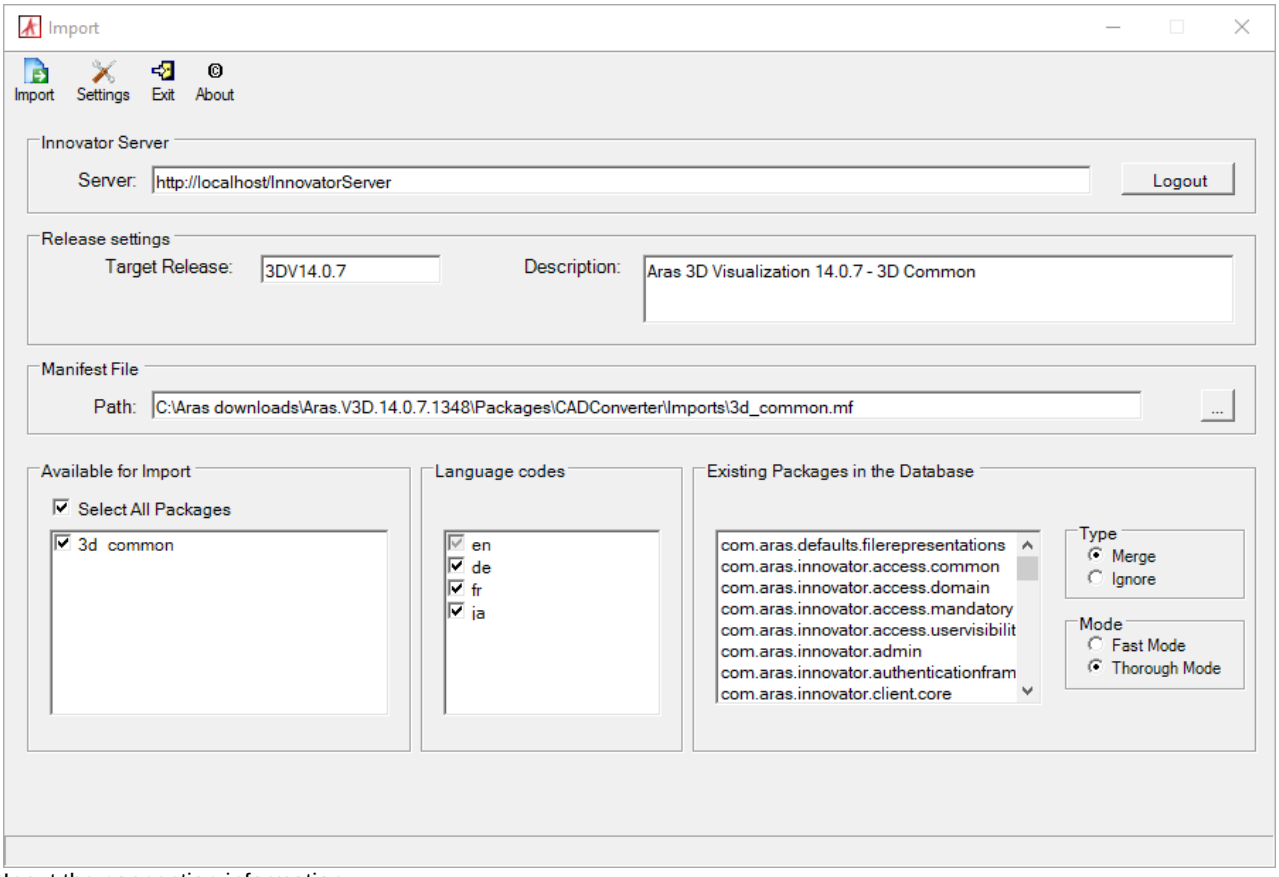
18. Save and close the `ConversionServerConfig.xml` file.
19. Restart the **Internet Information Services (IIS)**.
20. Copy the `Innovator` folder from the **3DViewers** package folder (A`ras 3D Visualization 25 CD Image\Packages\3DViewers`) to the root Aras Innovator code tree folder where the `Innovator` folder exists. Replace the files in the destination if the system prompts.
21. Copy the `Innovator` folder from the **DPN** package folder (`Aras 3D Visualization 25 CD Image\Packages\DPN`) to the root Aras Innovator code tree folder where the `Innovator` folder exists. Replace the files in the destination if the system prompts to.
22. In the Aras Innovator code tree, navigate to `\Innovator\Server` and open the `method-config.xml` fie in a text editor run as administrator.
23. In the < `ReferencedAssemblies` > tag, add the following:

```
<ReferencedAssemblies>
...
<name>$(binpath)/Aras.DynamicModelViewer.Core.dll</name>
<name>$(binpath)/Aras.DynamicModelViewer.DataModel.dll</name>
<name>$(binpath)/Aras.DynamicModelViewer.QueryProcessor.dll</name>
<name>Microsoft.Extensions.Logging.dll</name>
</ReferencedAssemblies>
```

24. **Save** and close the `method-config.xml` file.
25. Restart the **Internet Information Services (IIS)**.
26. Restart **Aras Innovator Agent for corresponding instance** on Server side on **Windows Services**.

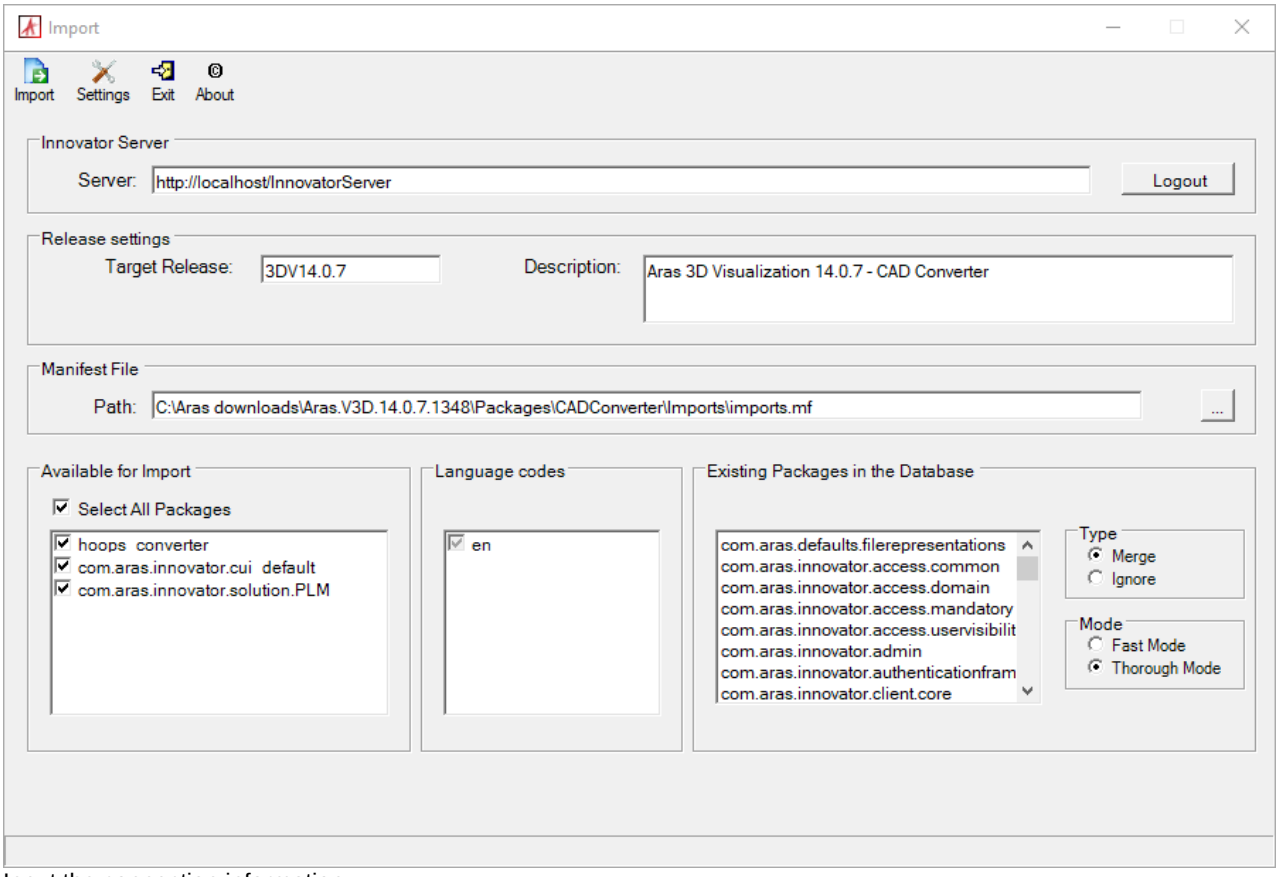


27. Import the Aras 3D Visualization 3D Common database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.
    1. Enable the **Super User** (**root**) login.
    2. Browse to the \ `PackageImportExportUtilities\Import\ f` older and run the **Import.exe** file.



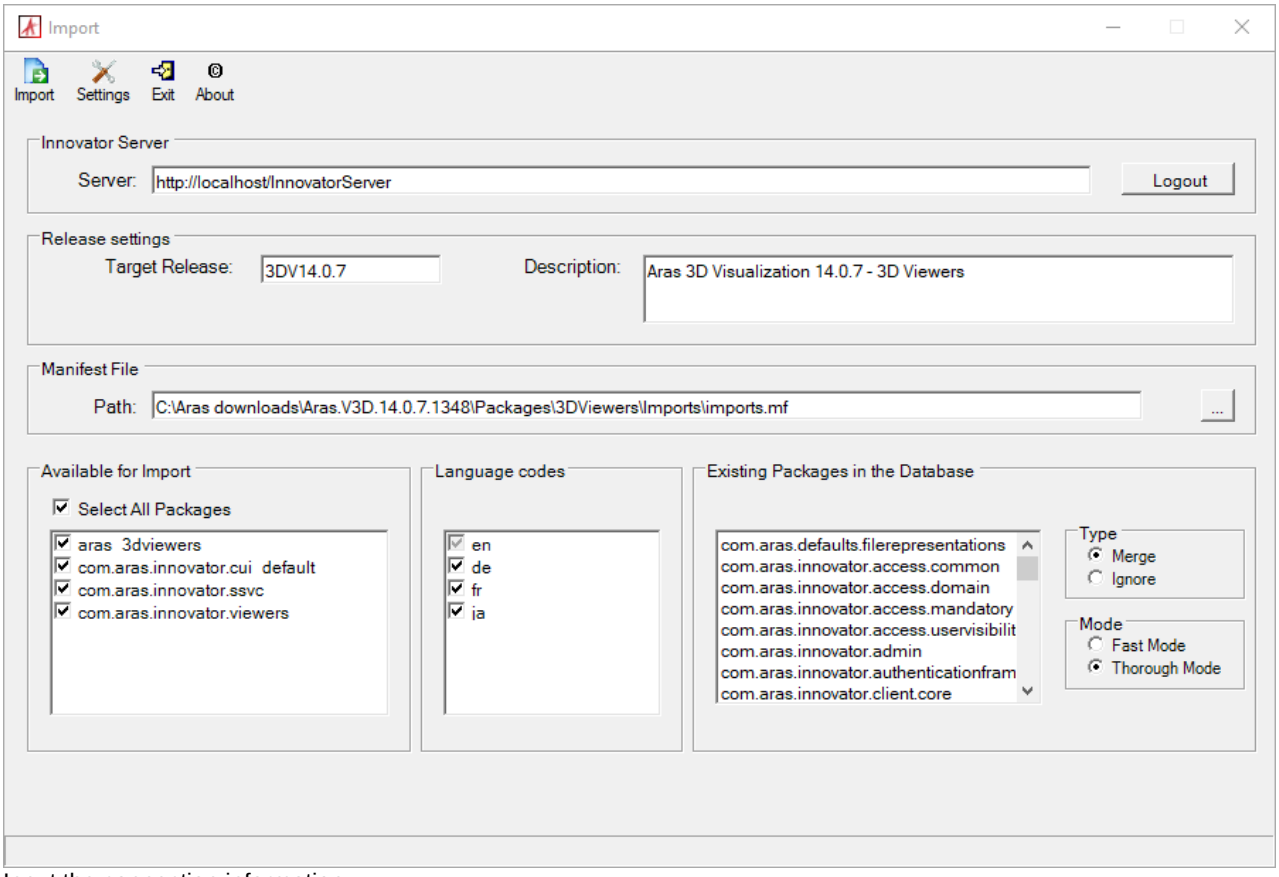
3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/. Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for "root" login (Default is "innovator")
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 – 3D Common
    - **Manifest File Path**: The manifest file `\Packages\CADConverter\Imports\3d_common.mf`
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

28. Import the Aras 3D Visualization CAD Converter database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.
    1. Enable the **Super User** (**root**) login.
    2. Browse to the `\PackageImportExportUtilities\Import\` folder and run the **Import.exe** file.



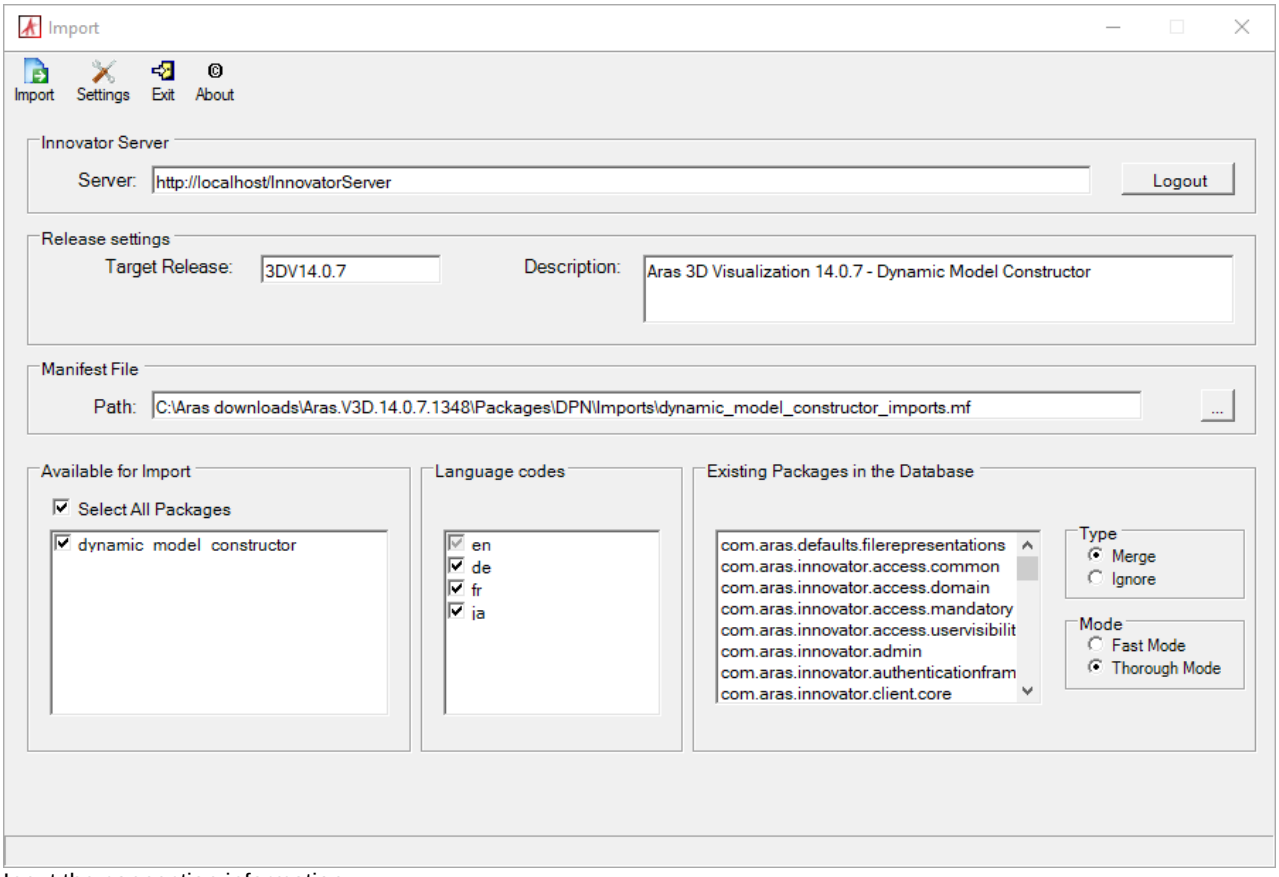
3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/. Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for “root” login (Default is “innovator”)
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 – CAD Converter
    - **Manifest File Path**: The manifest file `\Packages\CADConverter\Imports\imports.mf`
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

29. Import the Aras 3D Visualization 3D Viewers database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.
    1. Enable the **Super User** (**root**) login.
    2. Browse to the `\PackageImportExportUtilities\Import\` folder and run the **Import.exe** file.



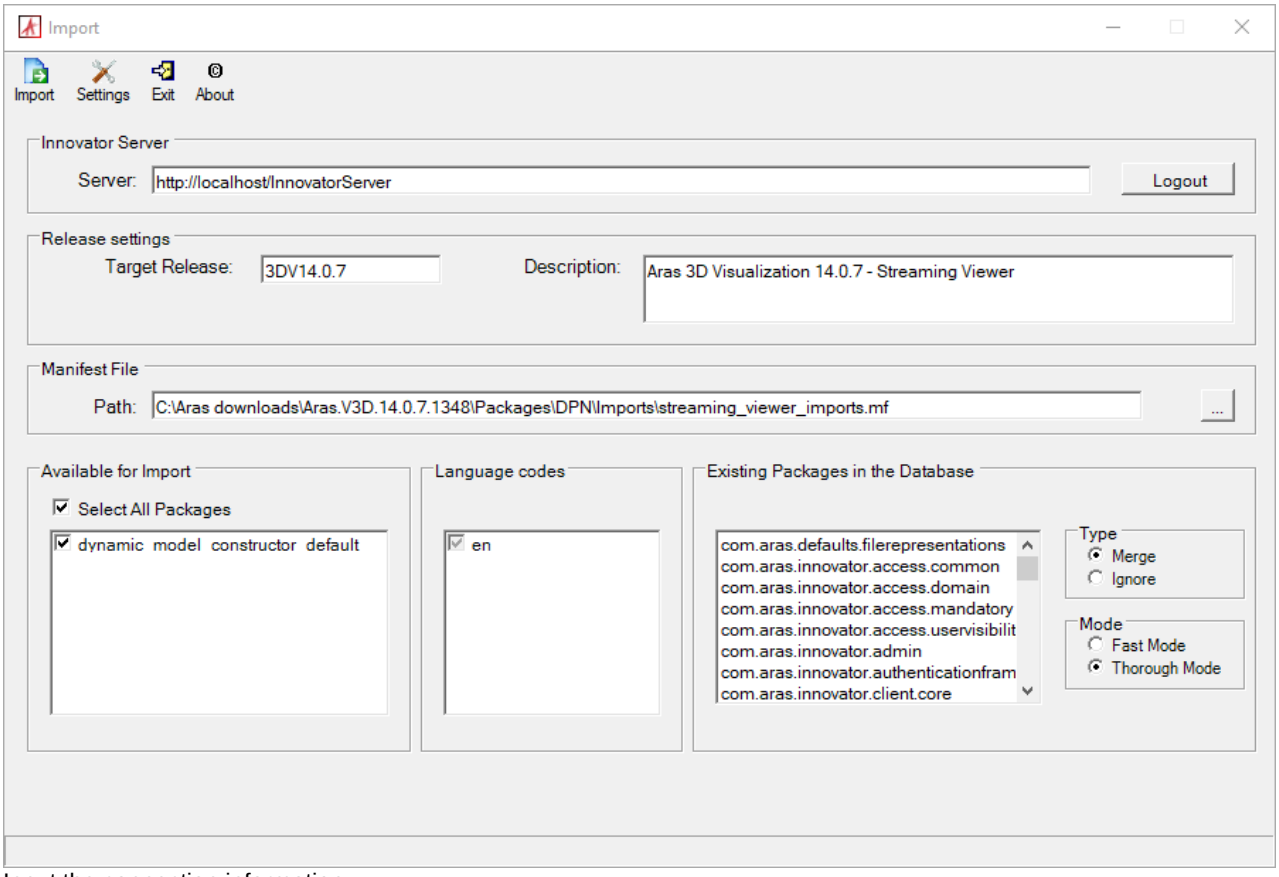
3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/.
    - Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for “root” login (Default is “innovator”)
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 – 3D Viewers
    - **Manifest File Path**: The manifest file `\Packages\3DViewers\Imports\imports.mf`
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

30. Import the Aras 3D Visualization Dynamic Model Constructor database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.
    1. Enable the **Super User** (**root**) login.
    2. Browse to the `\PackageImportExportUtilities\Import\` folder and run the **Import.exe** file.



3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/.
    - Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for “root” login (Default is “innovator”)
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 – Dynamic Model Constructor
    - **Manifest File Path**: The manifest file `\Packages\DPN\Imports\dynamic_model_constructor_imports.mf`
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

31. Import the Aras 3D Visualization Streaming Viewer database package with the **Package Import Export Utilities**. For more information using this tool, refer to the *Aras Innovator 35 – Package Import Export Utilities* documentation.
    1. Enable the **Super User** (**root**) login.
    2. Browse to the `\PackageImportExportUtilities\Import\` folder and run the **Import.exe** file.



3. Input the connection information.
    - **Server**: The connection URL for Aras Innovator. By default, it is http://localhost/InnovatorServer/. Click the **Login** button and enter:
        - **Database**: The target Aras Innovator database. By default, it is InnovatorSolutions.
        - **Username**: root
        - **Password**: Password for “root” login (Default is “innovator”)
    - **Target Release**: 3DV14.0.8
    - **Description**: Aras 3D Visualization 14.0.8 - Streaming Viewer
    - **Manifest File Path**: The manifest file `\Packages\DPN\Imports\streaming_viewer_imports.mf`
    - **Available for Import**: Select All Packages
    - **Type**: Merge
    - **Mode**: Thorough Mode
4. Click the **Import** button.

32. Disable the **Super User** (**root**) login.

Important

The **Super User** (**root**) login should not be enabled in production.

33. This step is optional. Confirm the successful installation. See the *Confirming Aras 3DV Installation* section.
34. For the required setup to get the streaming viewer running, refer to the *Administrative Configuration for Streaming Viewer* section.

35. If the installation fails, restore the Aras Innovator code tree, Conversion Server, and database with the backups done before the installation and contact Aras Support at support@aras.com .