

# SuperQuant node installation

## IMPORTANT NOTE

The node was built for Thermo Proteome Discoverer 2.0.x and can't work in earlier versions of the software.

## Installation process

1. Close Proteome Discoverer if it is open.
2. Copy the node dll file (**SuperQuantNode.dll**) and exclusion list file (**cf.exclude**) to the folder with Proteome Discoverer. The default location is:

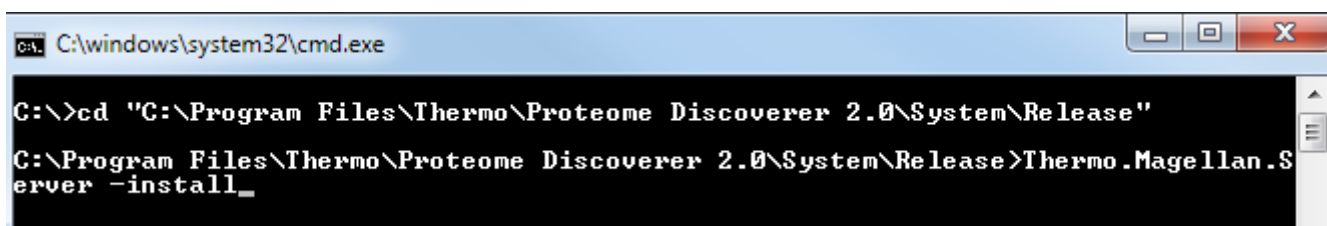
`C:\Program Files\Thermo\Proteome Discoverer 2.0\System\Release`

The path on your system might be slightly different. You might need to use administrator account to copy the files.

3. Use either of two options (step 4) or (step 5).

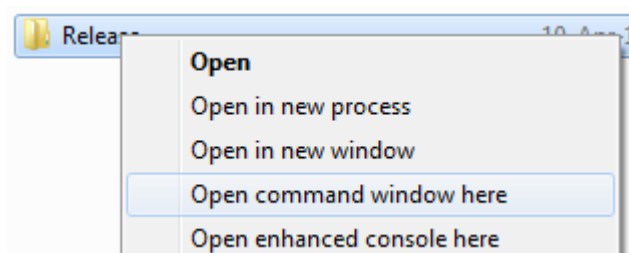
#### 4. Step 4

- a. Open the command window and move to the Proteome Discoverer folder.



```
C:\>cd "C:\Program Files\Thermo\Proteome Discoverer 2.0\System\Release"
C:\Program Files\Thermo\Proteome Discoverer 2.0\System\Release>Thermo.Magellan.Server -install_
```

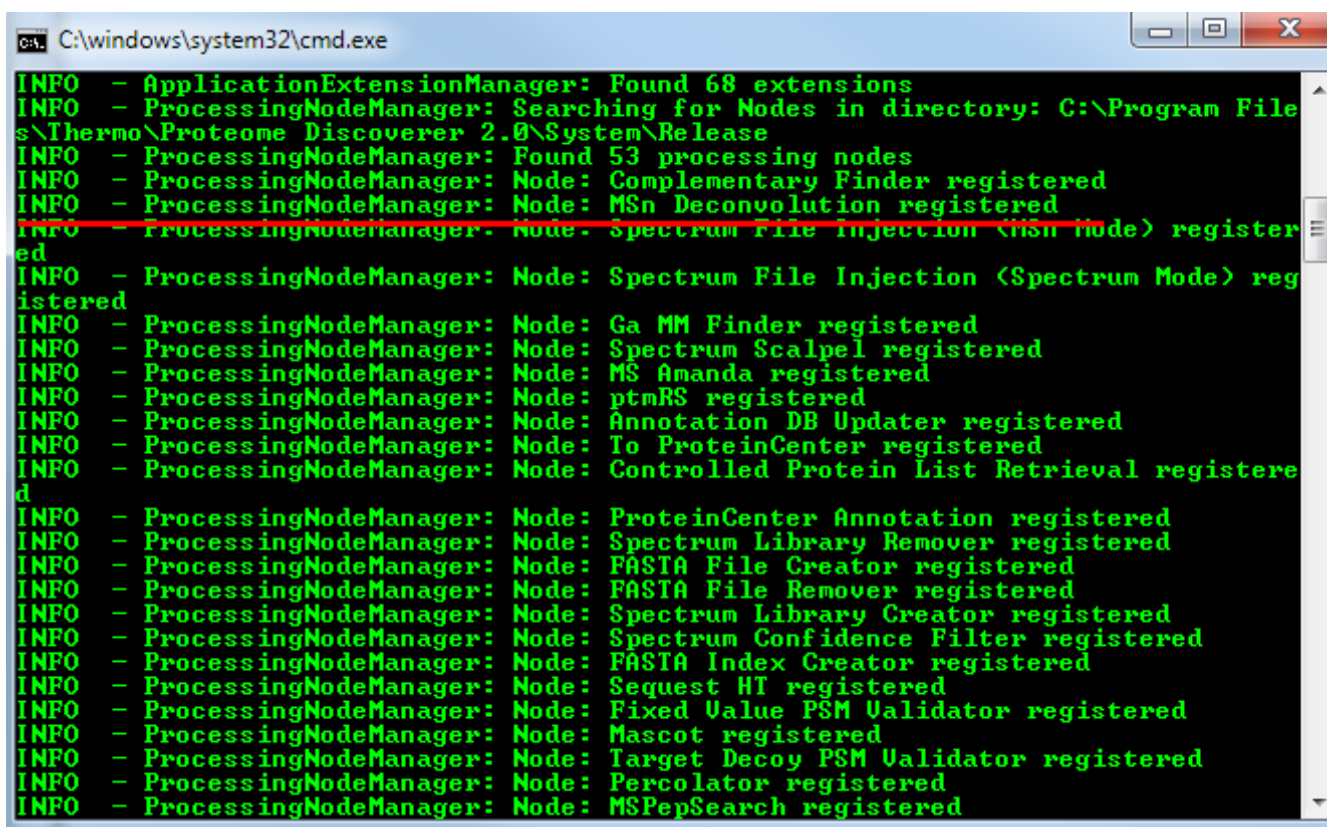
In Windows Explorer you can use Shift + right click on the folder and select **Open command window here**. The default location is mentioned at step 1.



- b. Run the following command

Thermo.Magellan.Server -install

- c. You should see the console window with the list of all nodes found in the system. You should see **Complementary Finder** and **MSn Deconvolution** nodes in the list.



```
INFO - ApplicationExtensionManager: Found 68 extensions
INFO - ProcessingNodeManager: Searching for Nodes in directory: C:\Program Files\Thermo\Proteome Discoverer 2.0\System\Release
INFO - ProcessingNodeManager: Found 53 processing nodes
INFO - ProcessingNodeManager: Node: Complementary Finder registered
INFO - ProcessingNodeManager: Node: MSn Deconvolution registered
INFO - ProcessingNodeManager: Node: Spectrum File Injection (MSn Mode) registered
INFO - ProcessingNodeManager: Node: Spectrum File Injection (Spectrum Mode) registered
INFO - ProcessingNodeManager: Node: Ga MM Finder registered
INFO - ProcessingNodeManager: Node: Spectrum Scalpel registered
INFO - ProcessingNodeManager: Node: MS Amanda registered
INFO - ProcessingNodeManager: Node: ptmRS registered
INFO - ProcessingNodeManager: Node: Annotation DB Updater registered
INFO - ProcessingNodeManager: Node: To ProteinCenter registered
INFO - ProcessingNodeManager: Node: Controlled Protein List Retrieval registered
INFO - ProcessingNodeManager: Node: ProteinCenter Annotation registered
INFO - ProcessingNodeManager: Node: Spectrum Library Remover registered
INFO - ProcessingNodeManager: Node: FASTA File Creator registered
INFO - ProcessingNodeManager: Node: FASTA File Remover registered
INFO - ProcessingNodeManager: Node: Spectrum Library Creator registered
INFO - ProcessingNodeManager: Node: Spectrum Confidence Filter registered
INFO - ProcessingNodeManager: Node: FASTA Index Creator registered
INFO - ProcessingNodeManager: Node: Sequest HT registered
INFO - ProcessingNodeManager: Node: Fixed Value PSM Validator registered
INFO - ProcessingNodeManager: Node: Mascot registered
INFO - ProcessingNodeManager: Node: Target Decoy PSM Validator registered
INFO - ProcessingNodeManager: Node: Percolator registered
INFO - ProcessingNodeManager: Node: MSPepSearch registered
```

## NOTE:

In some cases the execution of the command results in the following warning and the installation fails

```
WARN [1] Services.ProcessingNodeManager - Could not load this assembly "SuperQuantNode.dll"
since the following exception is raised
System.IO.FileLoadException: Could not load file or assembly 'file:///C:\Program
Files\Thermo\Proteome Discoverer 2.0\System\Release\SuperQuantNode.dll' or one of its
dependencies. Operation is not supported. (Exception from HRESULT: 0x80131515)
File name: 'file:///C:\Program Files\Thermo\Proteome Discoverer
2.0\System\Release\SuperQuantNode.dll' ---> System.NotSupportedException: An attempt was made
to load an assembly from a network location which would have caused the assembly to be
sandboxed in previous versions of the .NET Framework. This release of the .NET Framework does
not enable CAS policy by default, so this load may be dangerous. If this load is not intended
to sandbox the assembly, please enable the loadFromRemoteSources switch. See
http://go.microsoft.com/fwlink/?LinkId=155569 for more information.
```

The reason is the policy of .NET environment that prevents libraries downloaded from web sources to be executed. To override this policy you should add the following line to Thermo.Magellan.Server.exe.config file that could be found in the Proteome Discoverer folder. Since this is XML file you should put it in <configuration> <runtime> section of it.

```
<loadFromRemoteSources enabled="true"/>
```

The final result should similar to this.

```
<configuration>
  <configuration>
    (Some lines of text)
  </configuration>

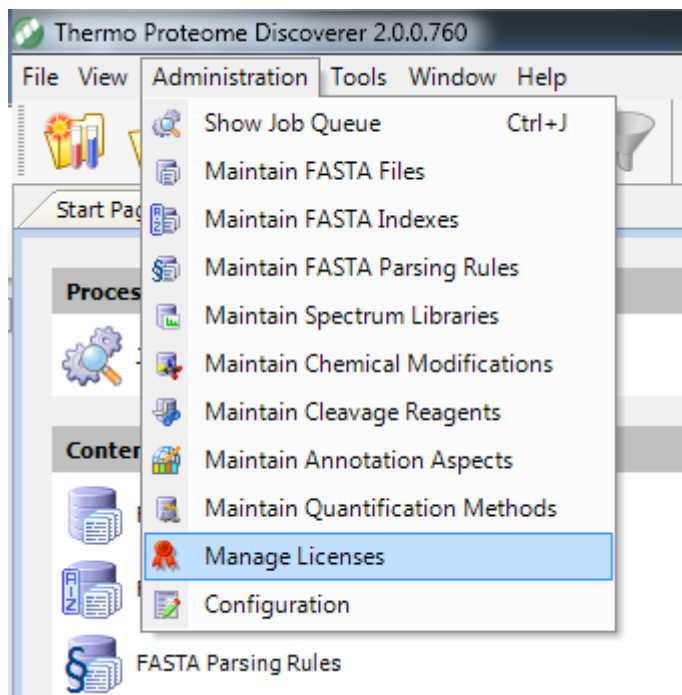
  <runtime>
    <gcServer enabled="true"/>
    <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
      (Some lines of text)
    </assemblyBinding>

    <loadFromRemoteSources enabled="true"/>

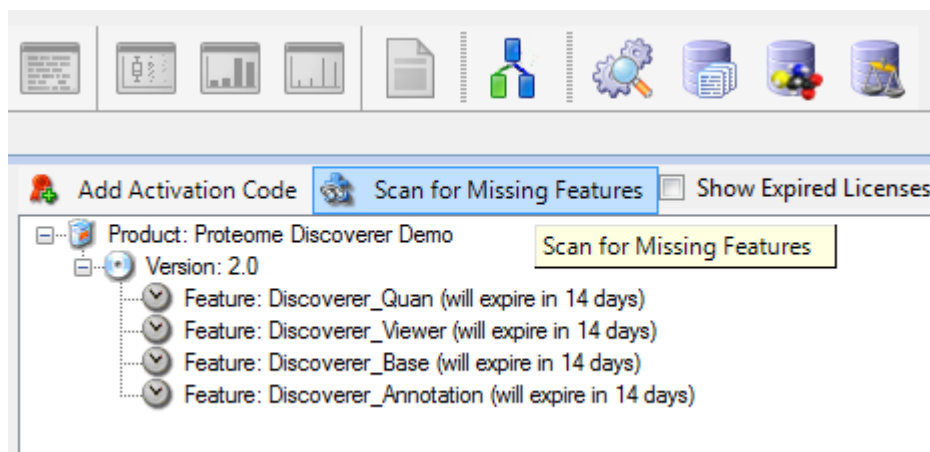
  </runtime>
  (A lot of lines of text)
```

5. Step 5

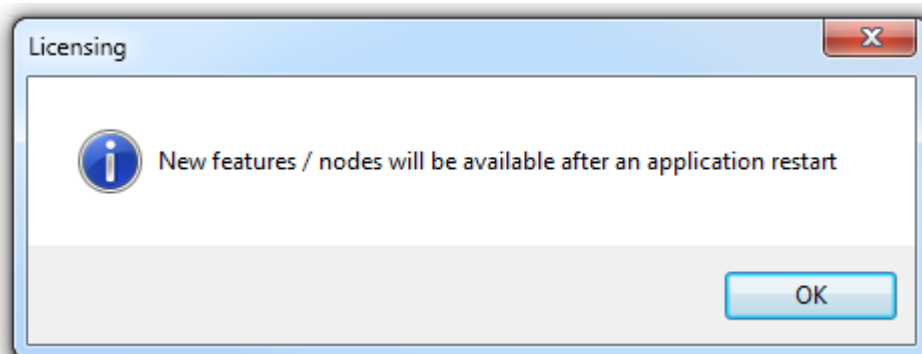
- a. Run Proteome Discoverer.
- b. In the main menu open **Administration** and then find **Manage Licenses**.



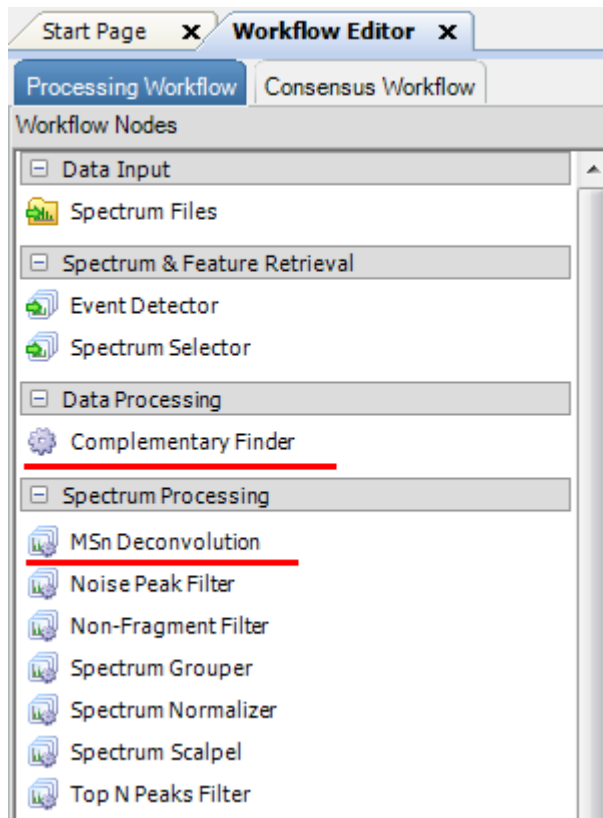
- c. Click **Scan for Missing Features** on the top of the window.



- d. After a while you will see the following notification



6. Restart Proteome Discoverer
7. You should find two new processing nodes: **Complementary Finder** and **MSn Deconvolution**



8. If you used Step 5 and can't see the nodes in the list afterwards, consider reading NOTE from the step 4.