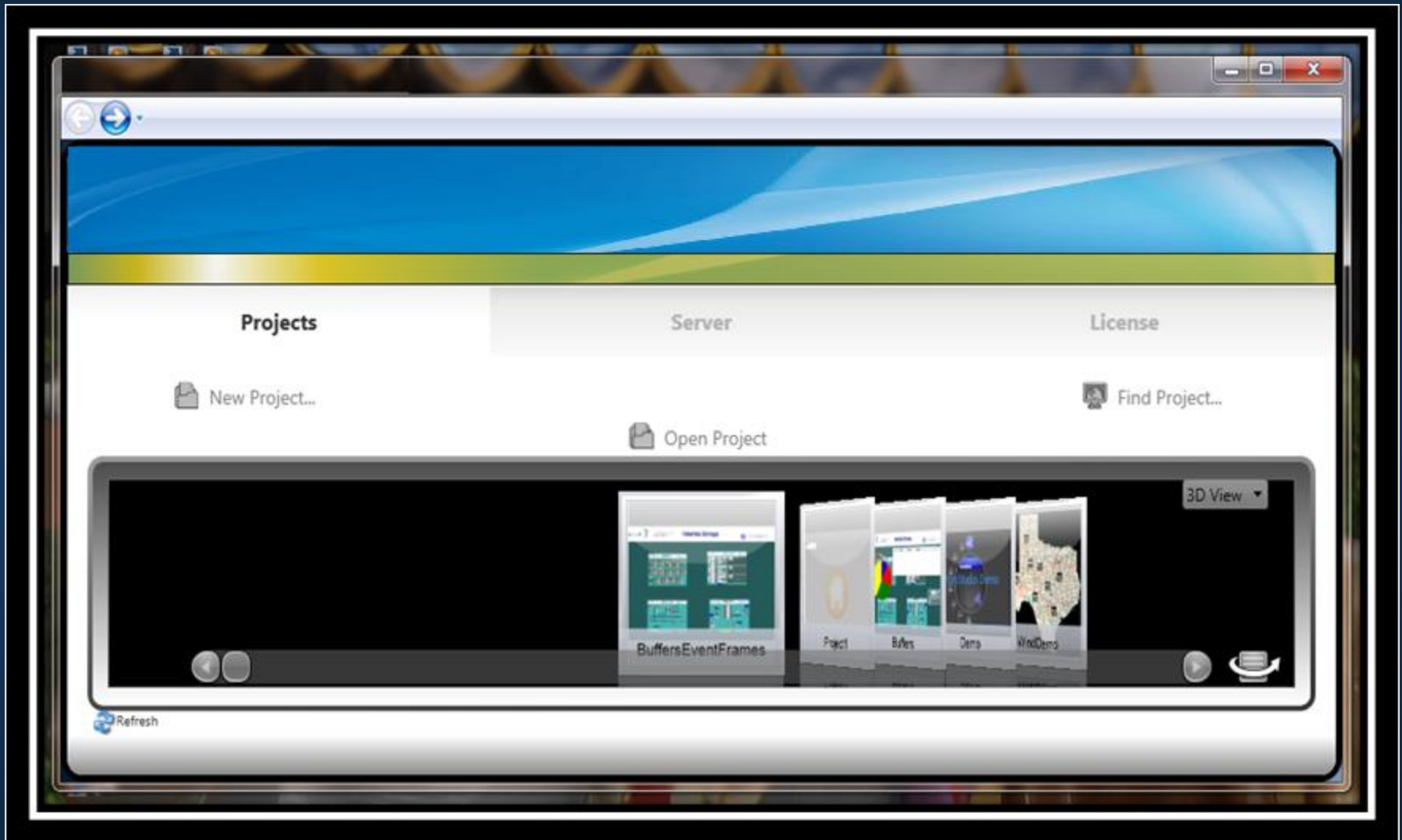


PI Database Driver Setup Tutorial

Start the software and select New Project...



Select Enterprise in Product Family and click on Create New Project button
(make sure you have the license to use the interface with PI).

New Project

Name: John's PI Demo Projects

Description:

Location: C:\Projects\

Product Family:

Product Model: Cell

Target Framework: .Net Framework 4.0

Culture Info: en-US

Default Code: CSharp

Default Desktop Resolution

Width	Height
1024	768

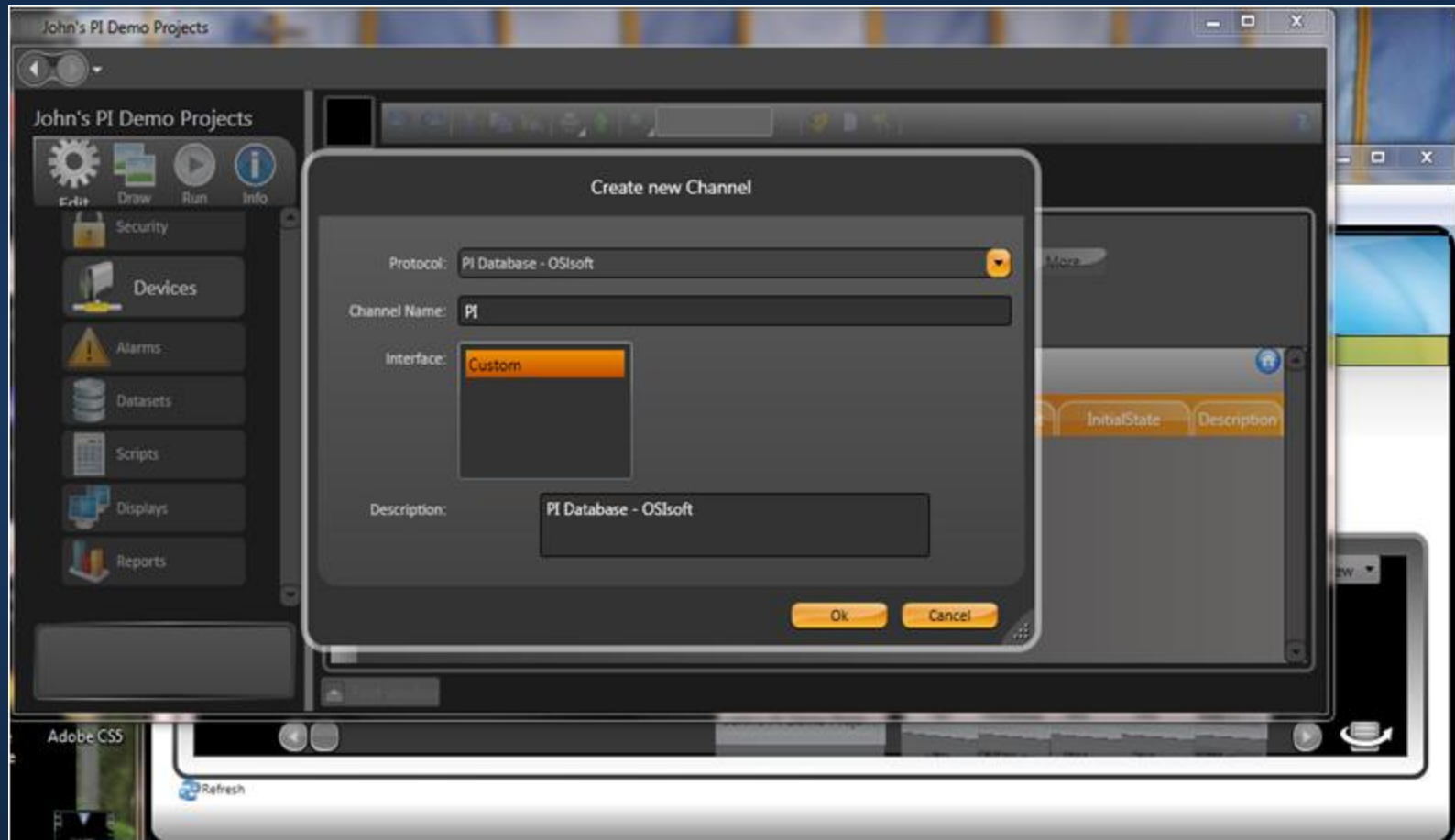
Create New Project

<< Back

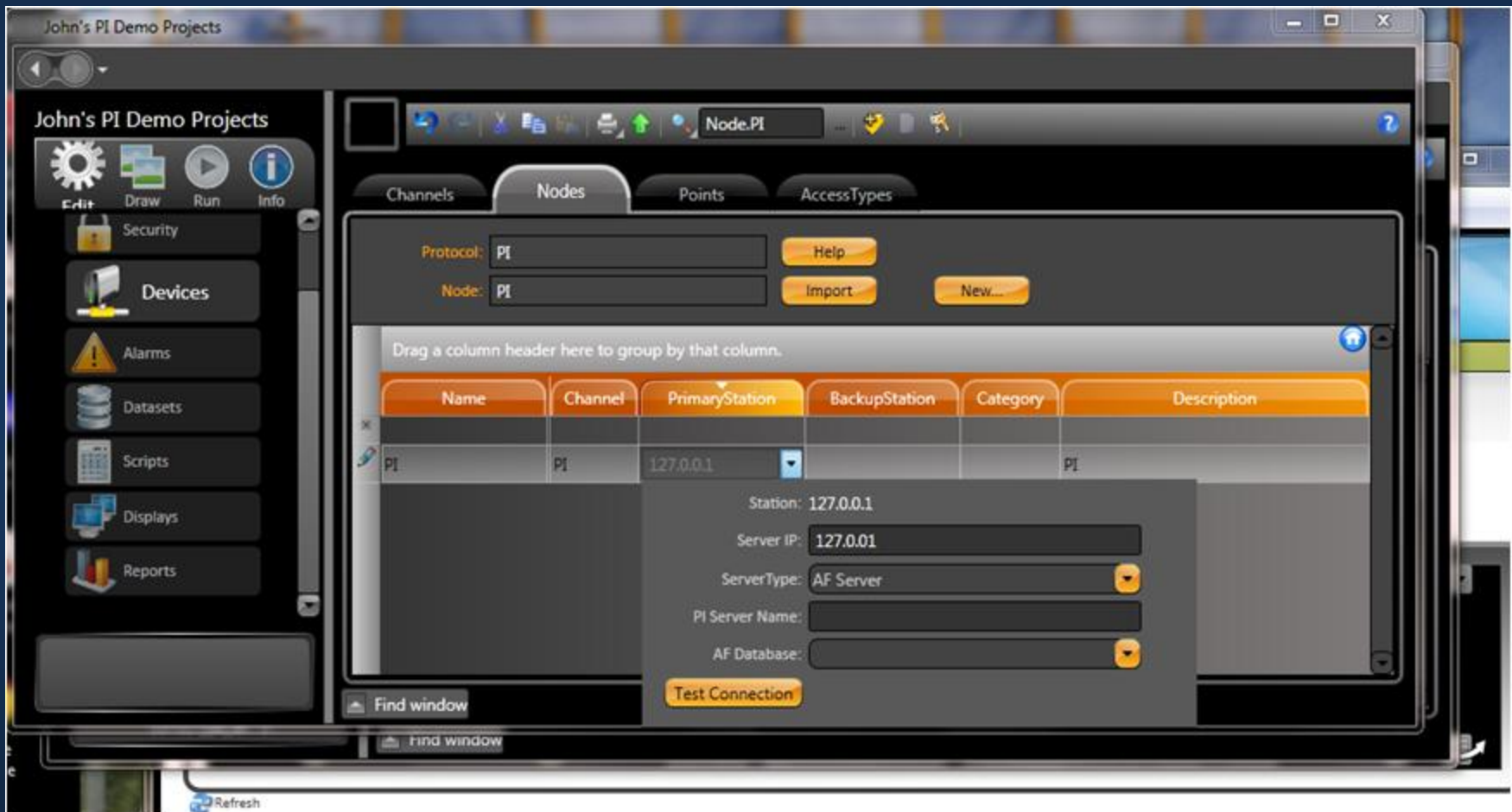
Go to Edit Devices and create a new PI Database Channel. If the PI does not show on the list, it is likely that the computer does not have the license for that interface. Contact us in this case.



You can use the default settings for Channel Name and Description.



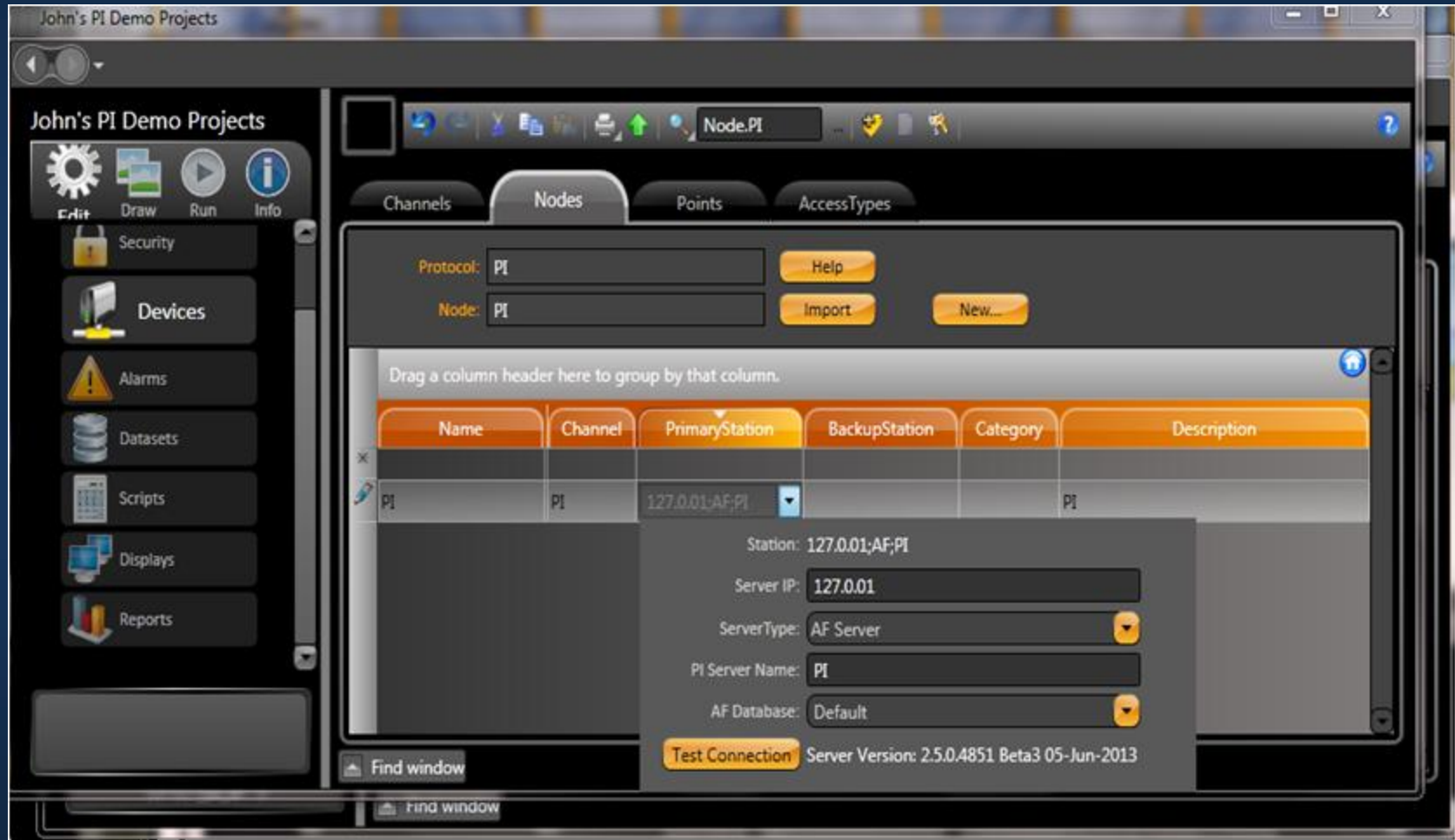
On Edit-Devices-Nodes create a new Node on the PI channel, click the ▼ button on PrimaryStation cell to edit the Node address.



You can connect to a PI server or to the AF server selecting them on ServerType combo box.



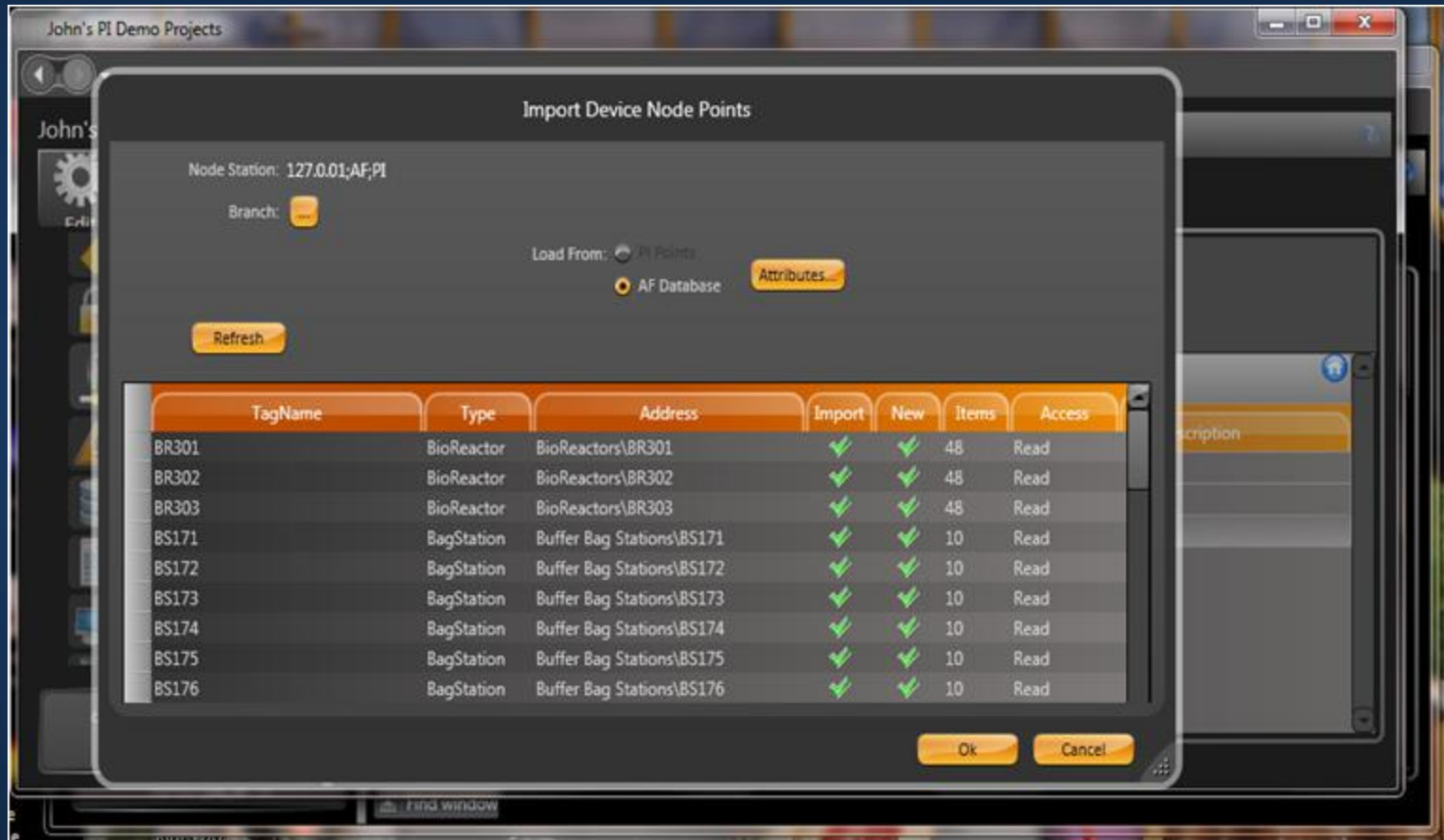
When connection to the AF server, after testing the connection, you need to select the AF Database. You need to replace the “Default” option on the combo box by the AF Database you want to connect.



After creating your nodes. Select a row and press the Import/Sync button.



The first time the system will import all selected objects from the PI or AF server. The next time you press the button, only new objects are presented for synchronization.

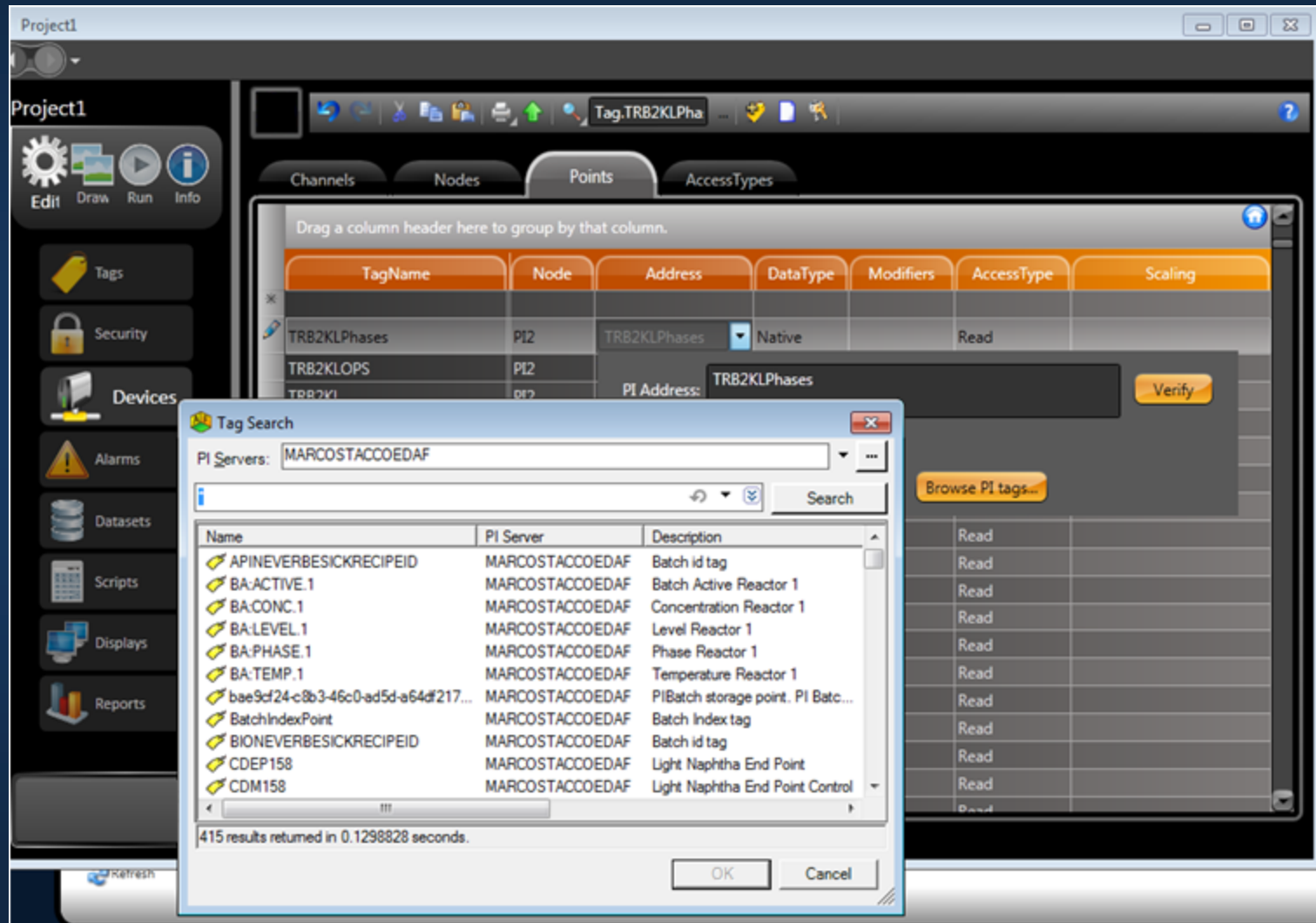


The tags, templates and connections are automatically created or updated to the PI or AF server .

The screenshot shows the 'Project1' software interface. On the left is a sidebar with icons for Edit, Draw, Run, and Info, and a list of project elements: Tags, Security, Devices, Alarms, Datasets, Scripts, and Displays. The main window has tabs for Channels, Nodes, Points, and AccessTypes. The 'Points' tab is active, displaying a table of tags. The table has columns for TagName, Node, Address, DataType, Modifiers, AccessType, and Scaling. The data rows list various tags like BS215.Status, BS215.Temperature, BS214.Batch, etc., all associated with PI nodes and having a 'Read' access type.

TagName	Node	Address	DataType	Modifiers	AccessType	Scaling
BS215.Status	PI	Media Harvest Tank...	Native		Read	
BS215.Temperature	PI	Media Harvest Tank...	Native		Read	
BS214.Batch	PI	Media Harvest Tank...	Native		Read	
BS214.ExpiryDate	PI	Media Harvest Tank...	Native		Read	
BS214.ID	PI	Media Harvest Tank...	Native		Read	
BS214.Material	PI	Media Harvest Tank...	Native		Read	
BS214.MaterialName	PI	Media Harvest Tank...	Native		Read	
BS214.QA_Status	PI	Media Harvest Tank...	Native		Read	
BS214.Quantity	PI	Media Harvest Tank...	Native		Read	
BS214.Status	PI	Media Harvest Tank...	Native		Read	
BS214.Temperature	PI	Media Harvest Tank...	Native		Read	
BS214.Batch	PI	Media Harvest Tank...	Native		Read	

You can also include or change addresses on Edit-Devices-Points, calling the PI points/AF search dialogs directly.



When connecting to the AF server, the elements tree, categories and attributes are also fully synchronized with the AssetsView.

The screenshot displays the PI System Explorer (Administrator) interface. The main window is titled "Project1" and shows a hierarchical tree of assets. The "Assets" tab is selected, displaying a list of assets under the "Buffer_Bag_Stations" category. The "Name" column lists assets from BS171 to BS184, and the "Type" column lists them as "BagStation". The "Description" column is empty. A search bar at the bottom right shows "Name: BS184".

On the left, the "Elements" tree shows a hierarchy starting with "BioReactors", which includes "Buffer Bag Stations" and "Buffer Vessels". The "BioReactors" details panel on the right shows the "General" tab with fields for Name, Description, Template, Categories, and Default Attribute. The "Find" section includes links for Parents, Models, and Layers.

The "Project1" window also shows a "Tags" section with icons for Tags, Security, Devices, Alarms, Datasets, Scripts, Displays, and Reports. The "Find window" button is visible at the bottom.

At the bottom of the main window, a status bar indicates: "BioReactors Modified:12/16/2012 10:06:24 AM. Version: 1/1/1970".

Go to Run-Test or Run-Startup and press the Run button to execute.
Enable the Property Watch to a quick view of tag values.



For a quick verification of tag values, you can type tag names (using the Intelisense auto-fill), or copy and paste row from the Edit-Tags-Objects table

The screenshot displays the Project1 software interface. On the left is a sidebar with navigation icons for Edit, Draw, Run, and Info, and a list of project components: Tags, Security, Devices, Alarms, Datasets, Scripts, Displays, and Reports. The main workspace shows a table of objects with columns for Name and Value. A 'Property Watch' dialog box is open, showing a list of objects and their values. The 'Selected Object' is TRD500L. The dialog also displays a table of object properties and their values.

Property Watch

User: User

Selected Object: TRD500L

☒ Always on top

Object Properties

Property	Value
Value	0
Quality	192
Timestamp	1/1/2013 10:33:33.922 PM
EngUnits	STATE
Format	
Retentive	0
Visibility	0
Domain	0
Locked	0
LockValue	0
ValueType	Int32
Historian	