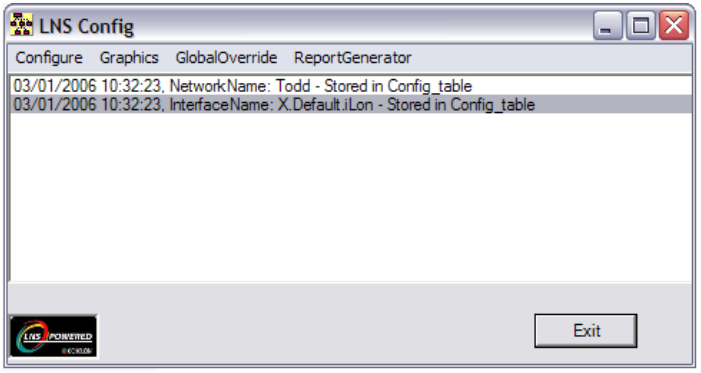
InetSupervisor -

LNSDriver_UsersGuide

Revised on January 11, 2007

1.0 LNSConfig - general

The LNSConfig is used for the importing of ***Lonworks*** specific points and the auto generation of graphics for ***Lonworks*** devices. To start the LNSConfig click ***Start***, then ***Program***s, then ***HMI***, then ***LNSConfig***. Included in this guide also is the ***LNSDriver*** which is used to transfer point values to and from your ***Lonworks*** network.



2.0 Configure

2.1 Import Lonworks Points

This is used to import Lonworks variables and configuration properties.

1. Click ***Start***, then ***Programs***, ***HMI***, ***LNSConfig***.

2. Type your name and password (*default username is* ***q****, default password is q)* in the Login dialog box
3. Click ***Configure****,* then ***Import LonWorks Points***.
4. Choose the desired channel then click ***Load Variables*** . This scans the *LNS Database* for available points (variables only) from all *LonWorks* devices, bringing these points into the ***LNS Point Import Wizard***.
5. Click ***Load CP's***. This will load all cofiguration properties in the same manner as the ***Load Variables***.

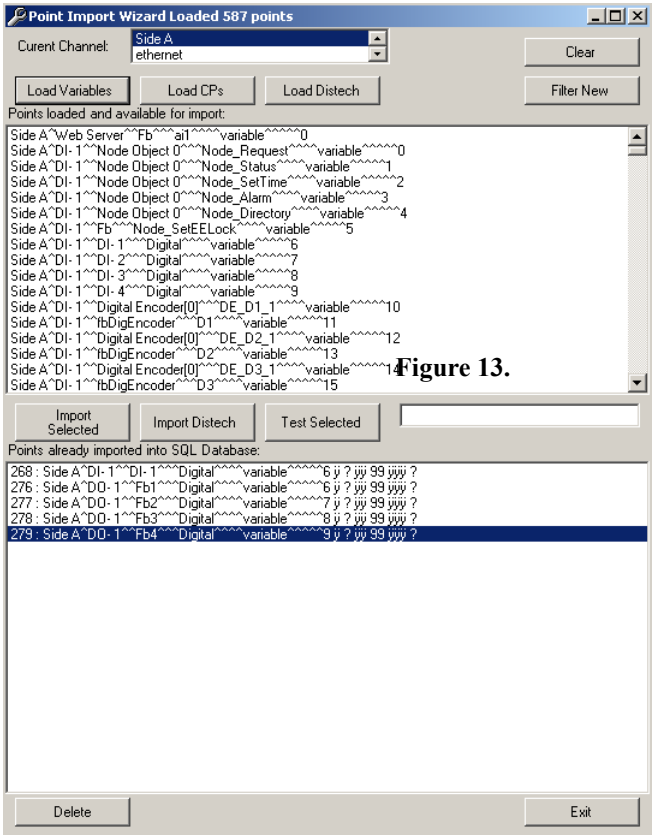


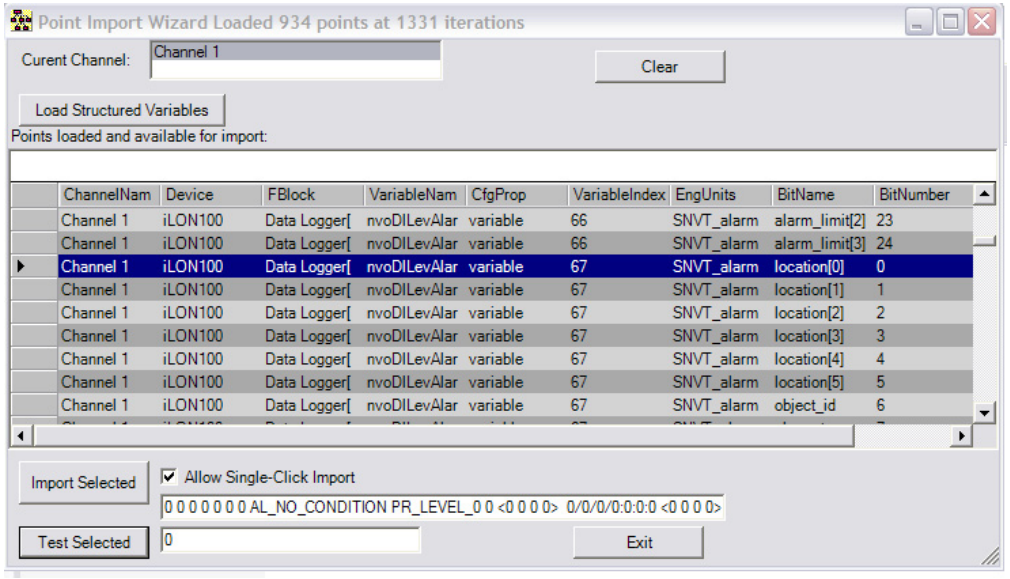
Figure 13.

6. Select a desired point by clicking on it and then click ***Import Selected*** (or press ***Alt + s***). Multiple points can be selected for import by holding down the **Ctrl** key while clicking on, or click/hold-down and dragging across, the desired points, then clicking ***Import Selected***. Repeat this process for all desired points.
7. If you would like to delete an imported point, select it by clicking on it, then click ***Delete*** at the bottom left of the window.
8. Once all points have been imported, the database is ready for creating a project-specific web page.

2.2 Import Structured Points

This is used to import a specific bit from a structured Lonworks network variable.

1. Click ***Start***, then ***Programs***, ***HMI***, ***LNSConfig***.
2. Type your name and password (*default username is* ***q****, default password is q)* in the Login dialog box
3. Click ***Configure***, then ***Import Structured Points***.
4. Choose the desired channel then click ***Load Structured Variables*** . This scans the *LNS Database* for available points from all *LonWorks* devices, bringing these points into the ***LNS Structured Point Import Wizard***.

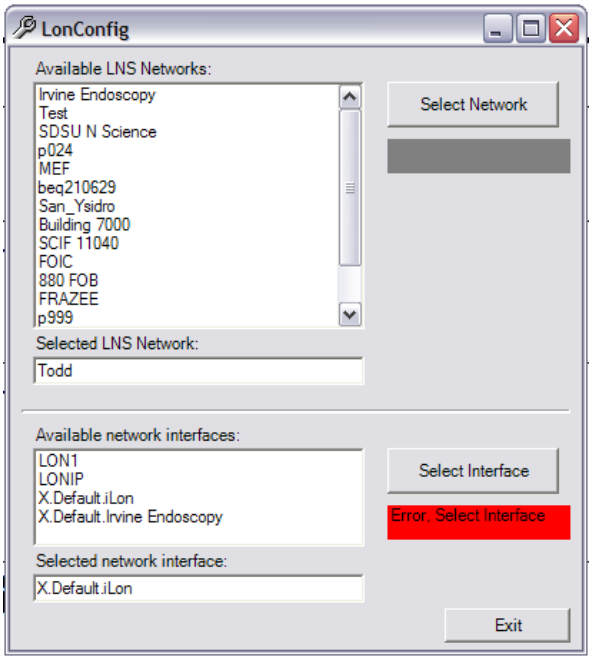


5. Highlight the bit you wish to import and click the button ***Import Selected.*** If you check mark ***Allow Single-Click Import*** the bits will import automatically when highlighted.

2.3 LON System

The LNSConfig will automatically select the network defined in the ***Config Table*** of ***InetSupervisor***(***Inet_Users Guide***). Any network on the computer can be accessed by the ***LNSConfig*** by selection in the ***LON System*** utility.

1. Click ***Start***, then ***Programs***, ***HMI***, ***LNSConfig***.
2. Type your name and password (*default username is* ***q****, default password is q)* in the Login dialog box
3. Click ***Configure***, then ***LON System***.



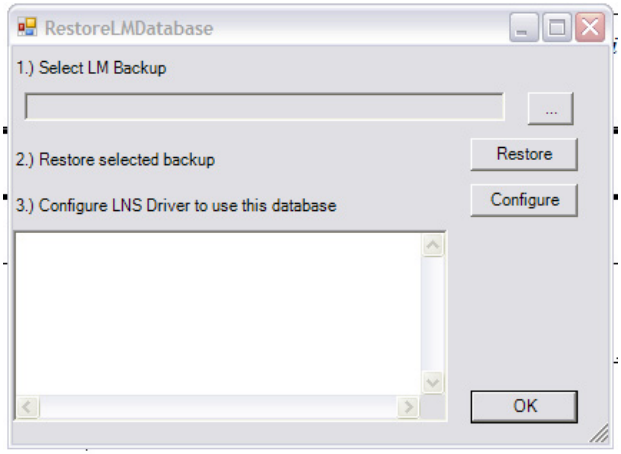
4. From here select the network database and network interface by high-lighting the desired network or interface and clicking the ***Select Network*** or ***Select Interface*** buttons.
5. **Restart** the ***LONConfig*** for changes to take effect.

2.4 Restore LM Database

This is to restore a ***Lonmaker*** network onto your computer that has the LNS runtime environment but does not have ***Lonmaker*** installed

1. Click ***Start***, then ***Programs***, ***HMI***, ***LNSConfig***.
2. Type your name and password (*default username is* ***q****, default password is q)* in the Login dialog box

Click ***Configure,*** then ***Restore LM Database.***



3. From here select the network database, click the ***Restore*** button. If you wish to the LNSDriver to use this network click the ***Configure*** button.

3.0 Graphics

3.1 Graphic Generator

Suppose we've created the graphics (Template) for a Variable Air Volume (VAV) box, that is, we've created an ***.asp*** page graphical interface in ***Dreamweaver*** as described in the **Creating Graphics** section. There are 99 VAV's on our project and they are fed by 3 Air Handling Units (AHU). Our ***.asp*** Template page will include points specific to a VAV controller and AHU-1 to which the VAV box belongs. Once the Template Graphics are complete, debugged, and properly mapped to points in the database, we can use the Graphics Generator to automatically import points and create graphics for all of the VAV's. It is critical that all points used in the ***.asp*** Template are fully defined, including alarm configuration, trending, logic names, alarm notification, and digital point configuration. The Graphics Generator will import points for all nodes based on these points used in the ***.asp*** Template. In this process, the Graphics

Generator will search the ***LNS Database*** for nodes with the same ***Program ID*** and create graphics based on the Template Graphic you initially created. The steps are as follows:

1. Create Template Graphic (****.asp*** page)
2. Launch the ***LNSConfig*** application. Click on ***Graphics,GenerateGraphics.*** The ***GraphicGenerator*** window will pop up(**Figure 57**).

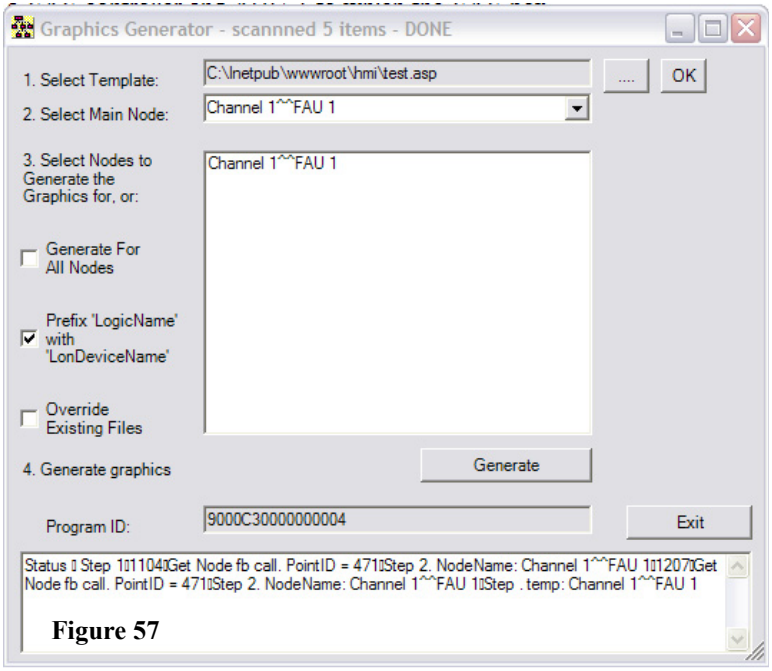


Figure 57

3. Click ***Browse...***, Select the Template ***.asp*** page you will use to generate graphics. then click ***OK***.
4. Select the ***Main Node*** from the drop down box. This node will be used as a template to find other nodes. This will find other nodes with identical ***Program ID***s. All nodes with identical ***Program ID***s will be displayed in the large text box. Hold down the **Ctrl** key and click on nodes for which you want to generate graphics, or alternately, select the ***Generate For All Nodes*** checkbox to generate graphics for all listed nodes. All graphics will be generated and stored in the directory where the ***.asp*** Template is located. If the web page contains points linked to the Main Node then the Graphics Generator will import and configure the necessary points from the target nodes if they do not already exists. Graphic names will consist of the ***.asp*** Template name, channel name, and device name

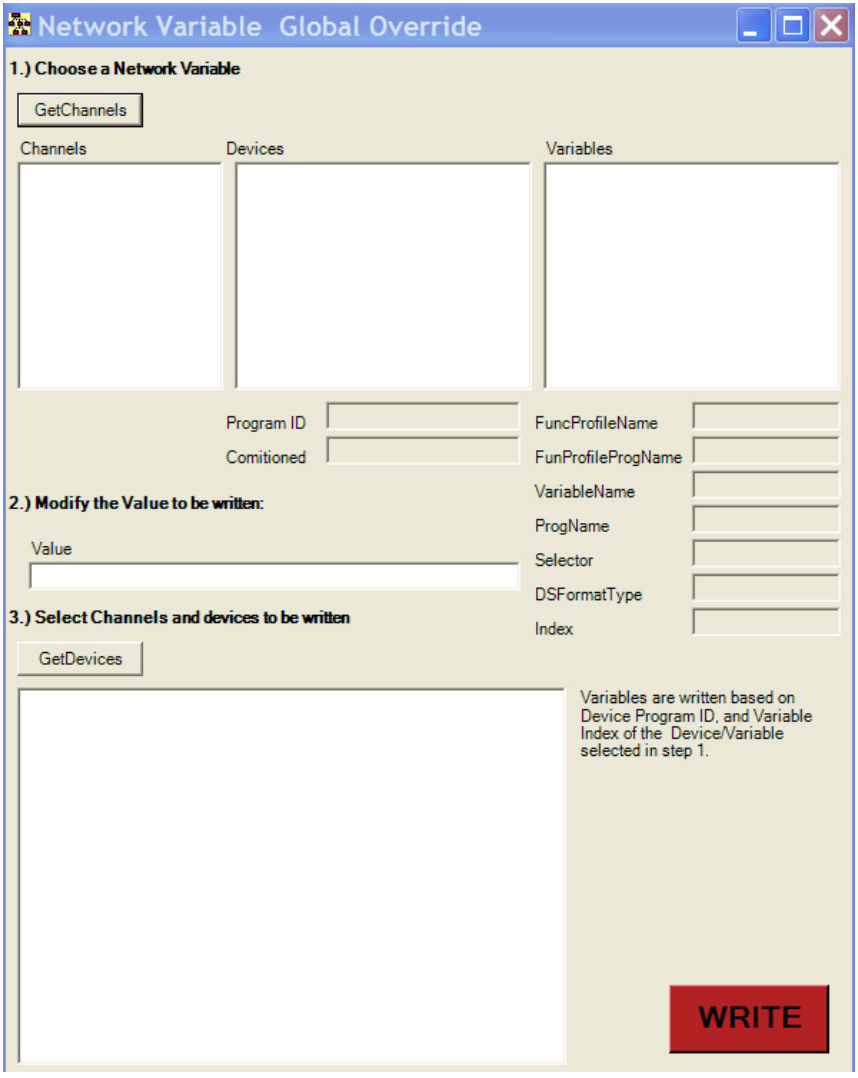
4.0 Global Override

The ***Global Override*** is a utility that can, when given a network input variable, or config property name and value will override the same network input variable, or config property in all chosen devices with the same ***Program ID***.

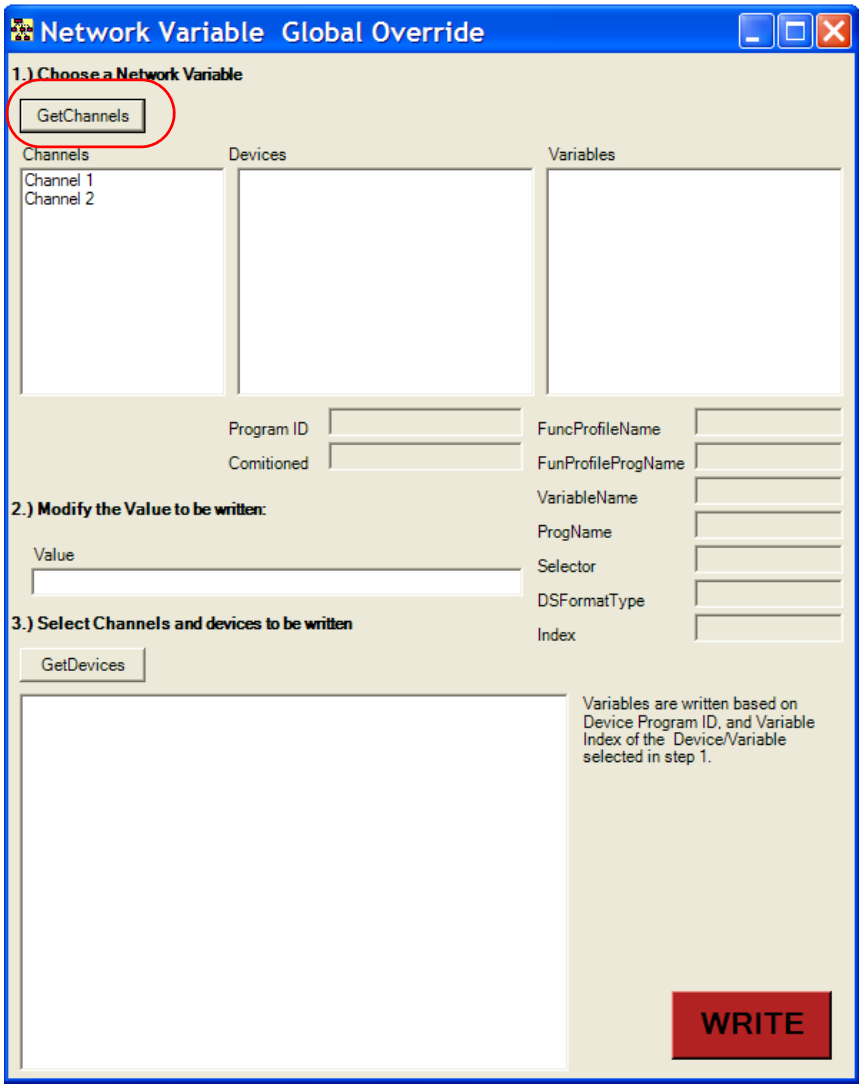
4.1 Network Variables

1. To start the ***Global Override*** utility for variables, start the LNS config and click on ***GlobalOverride, Variables.***

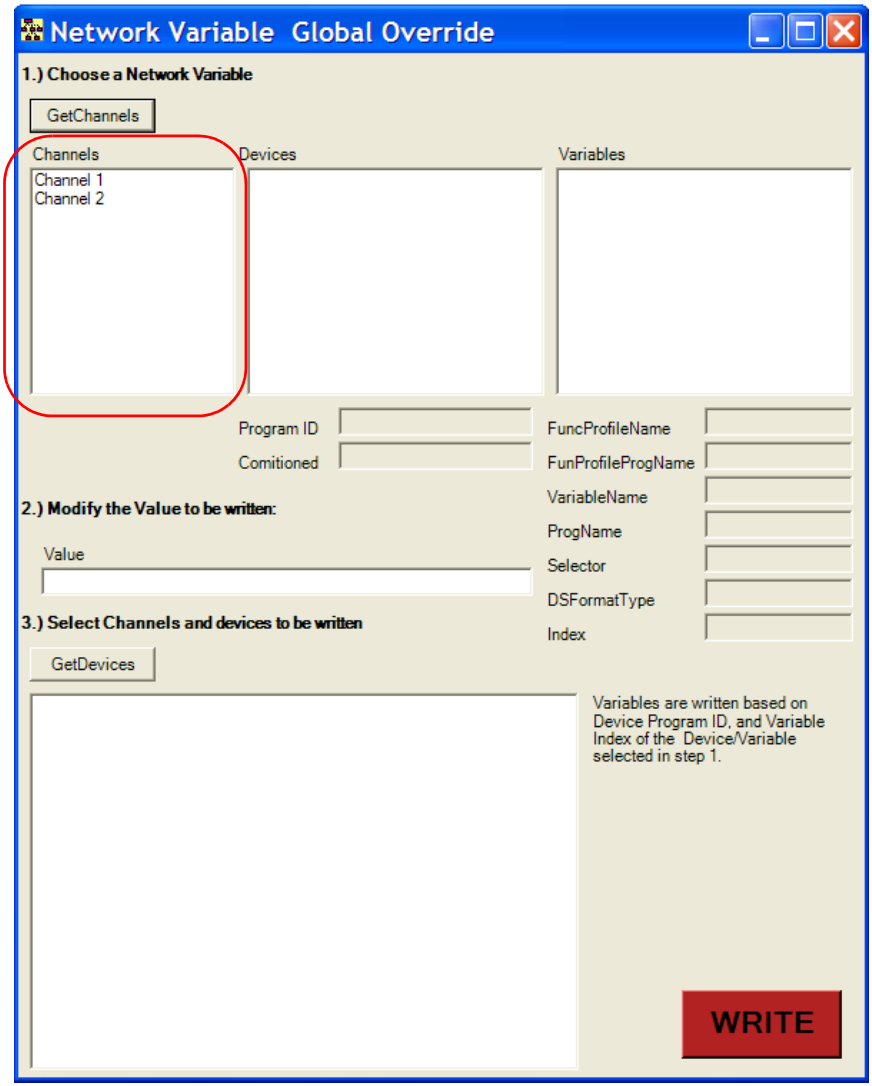
2. The ***Variable GlobalOverride*** utility will start.



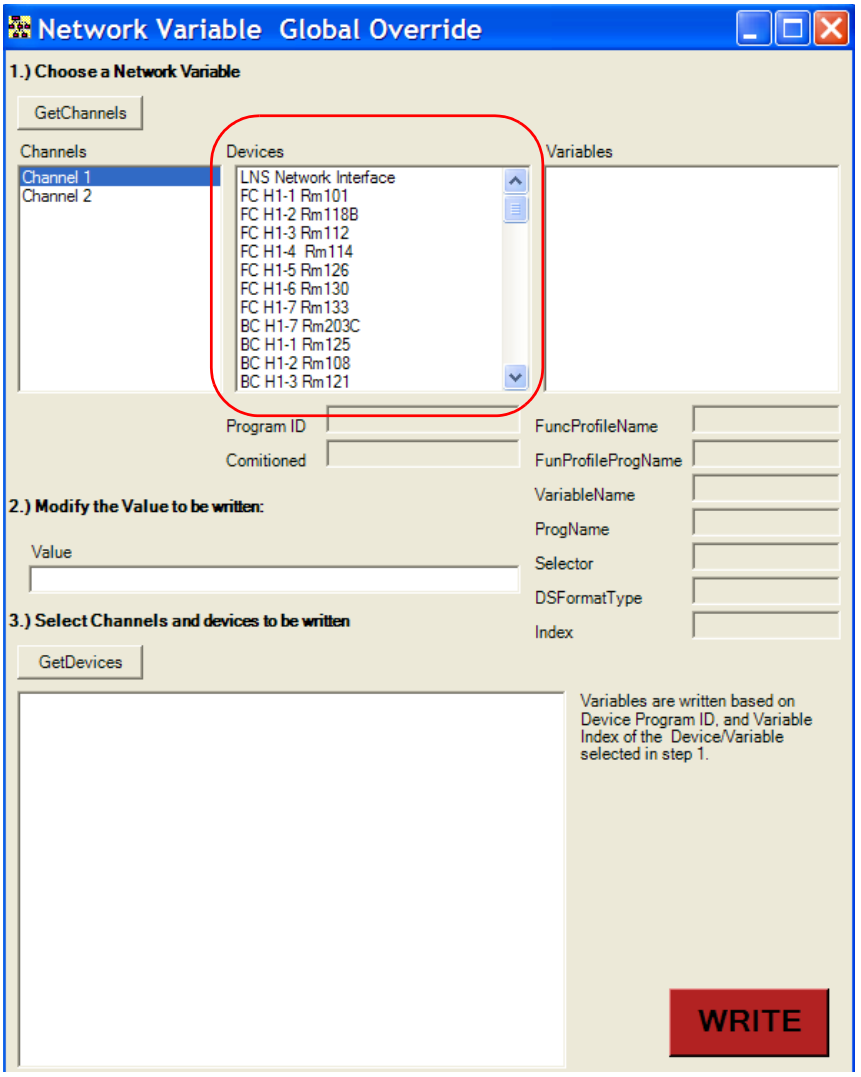
3. Click on the ***GetChannels*** button.



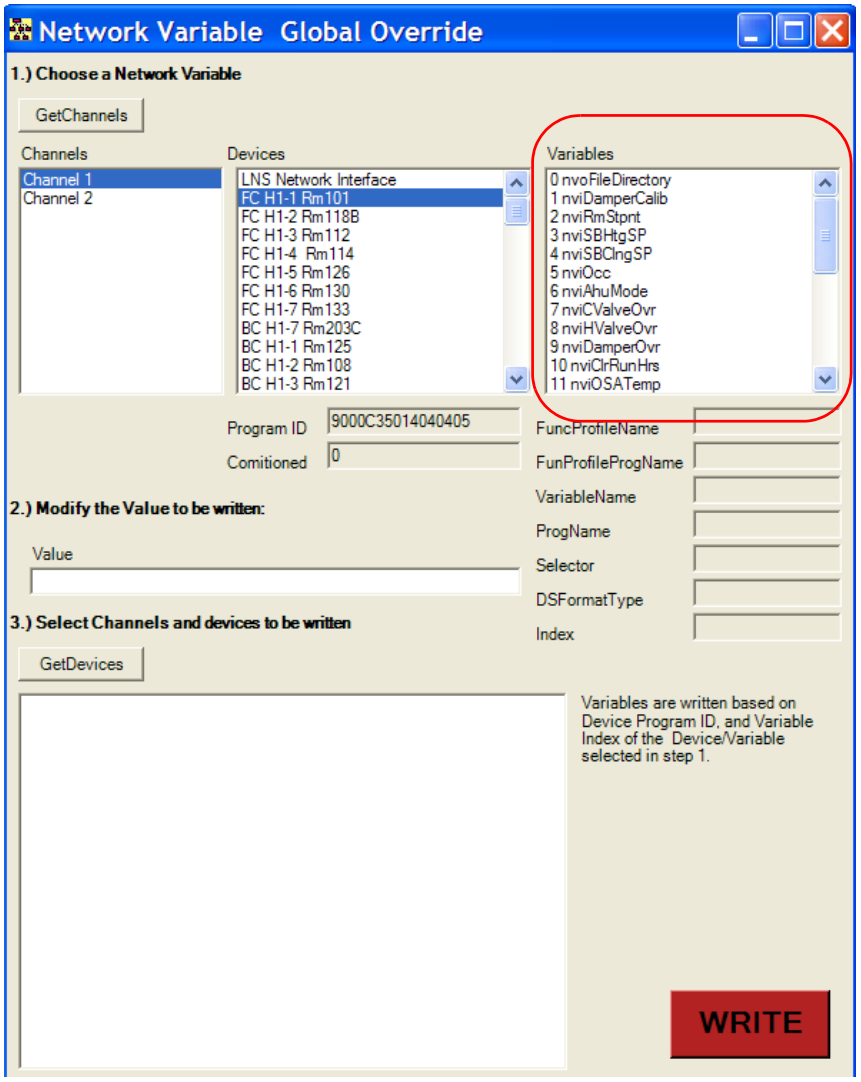
4. All the channel's on network will show in the ***Channels*** list. Choose the channel of the device you wish to use as your template.



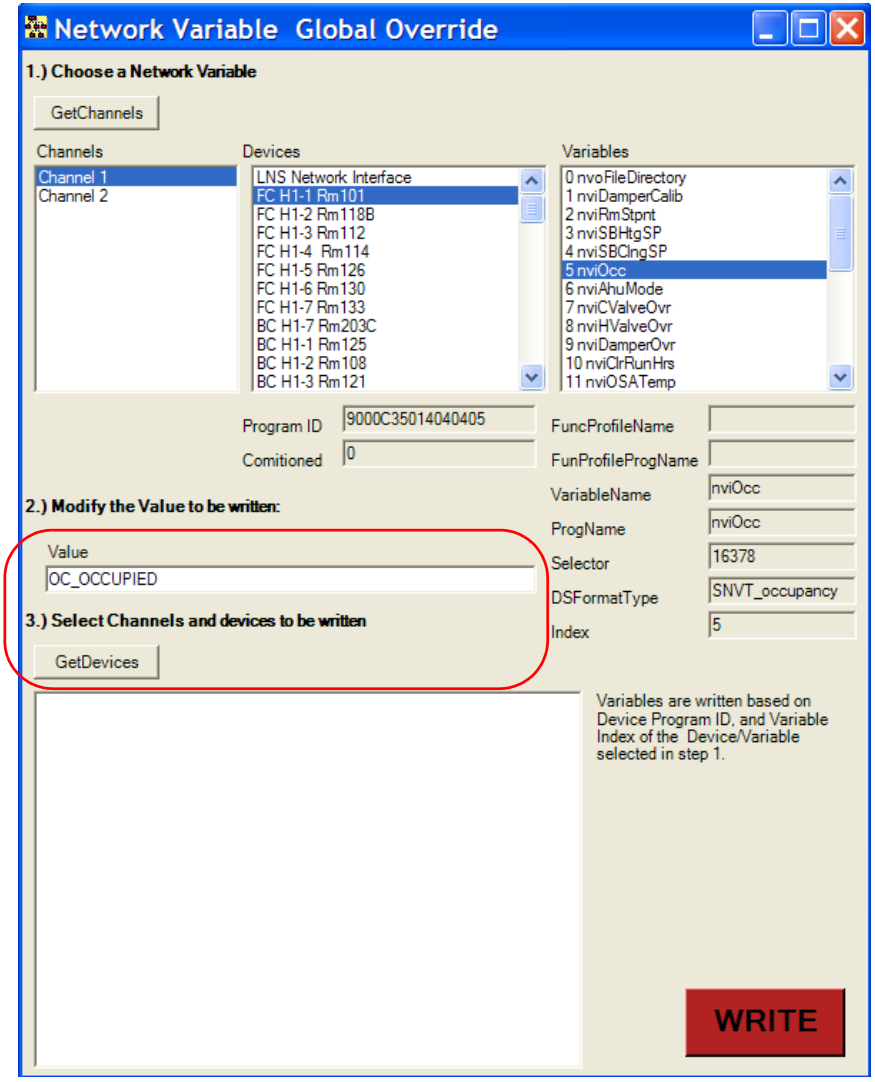
5. All the devices on that channel will show in the ***Device*** list. Choose the device you wish to use as your template.



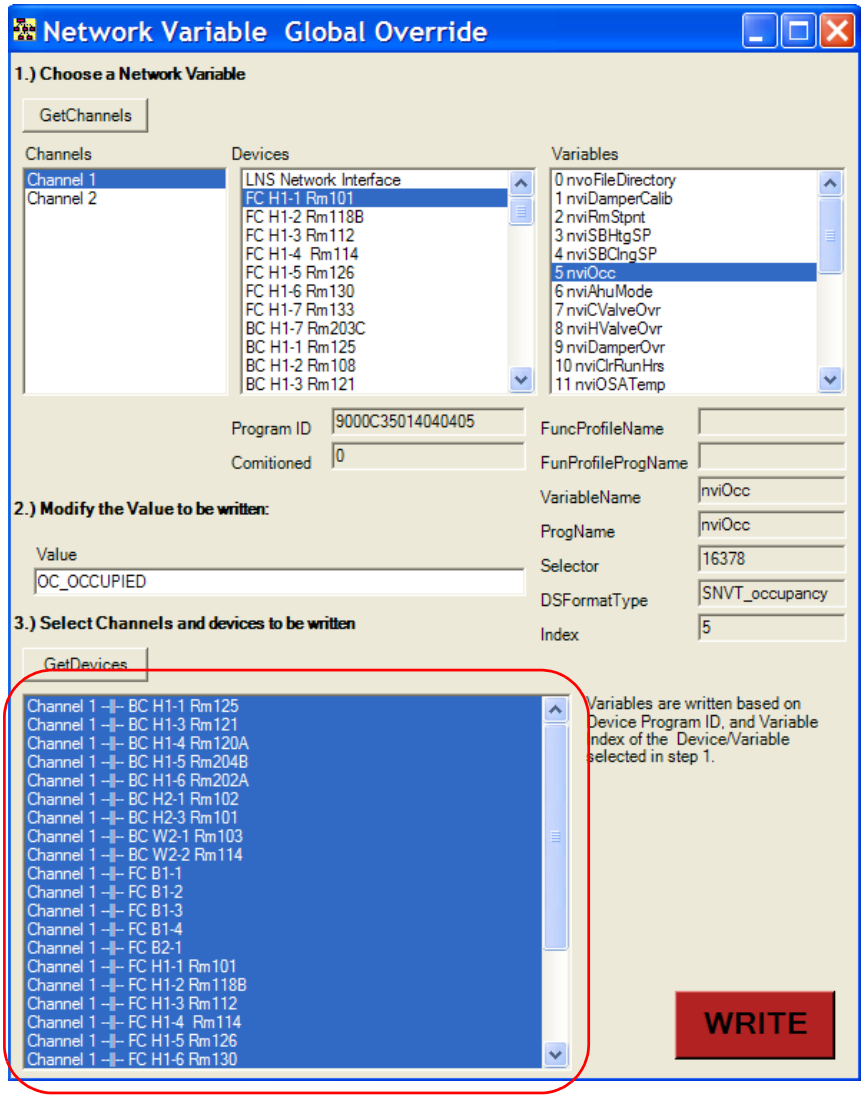
6. All the network variables for that device will show in the ***Variables*** list. Choose the variable you wish to use as your template.



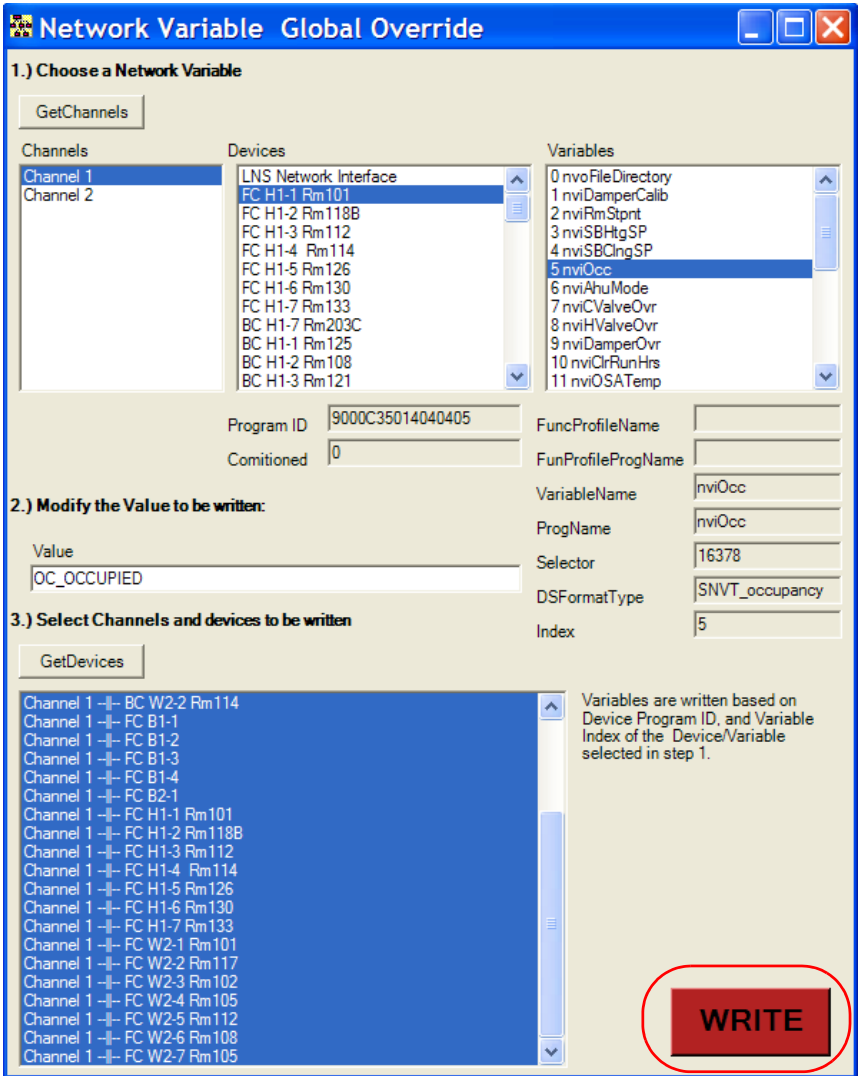
7. The variable value will show in the ***Value*** box. Modify the value to the new value you wish to use as your template. Click the ***GetDevices*** button.



8. All the devices on the network that match the ***Program ID*** of the template device will show in the list below the ***GetDevices*** button. Choose the devices you wish to have overridden. You can hold the ***Shift*** and ***Cntrl*** buttons to modify you selections.



9. When the target devices have been selected click the ***WRITE*** button to override the variables with the new value.



4.2 Config Properties

The ***Config Properties Global Override*** utility works just like the ***Network Variable Global Override***, only it works on confutation properties of a device. Please refer the above section for details.

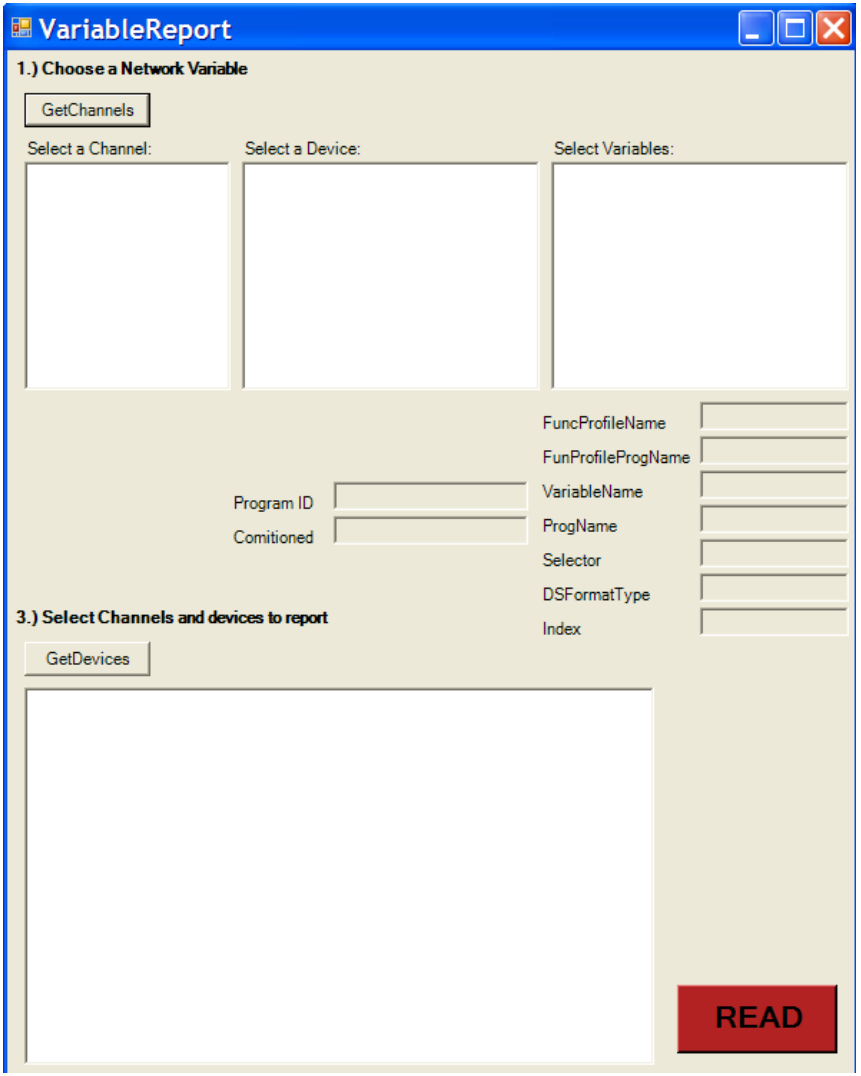
5.0 Report Generator

The ***Global Variable Report Generator*** is a utility that can, when given a list of devices and network variables will generate an XML file with a snap shot of all the listed device's choose variable values. This XML file can then be imported into a spreadsheet editor (such as Microsoft Excel) or other program to make graphs or tabulate data or just have the raw data reviewed natively.

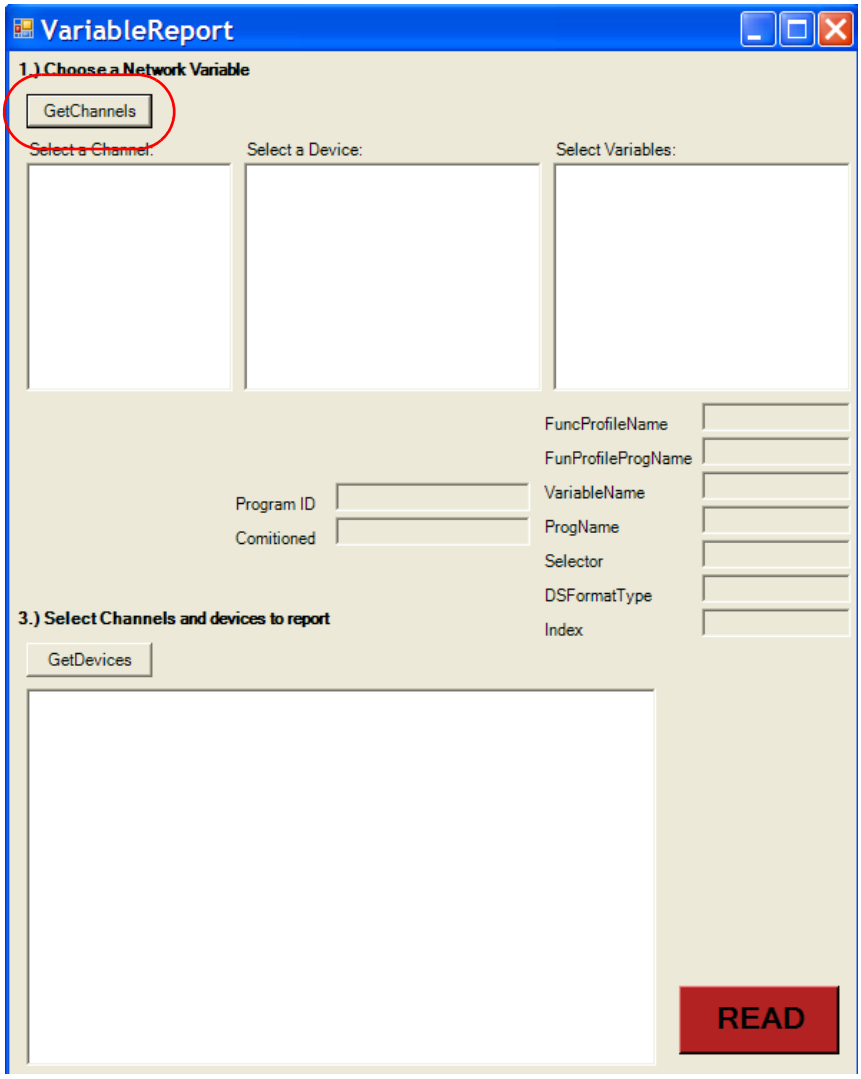
5.1 Variables

1. To start the ***Variable Report Generator*** utility for variables, start the LNS config and click on ***ReportGenerator, Variables.***

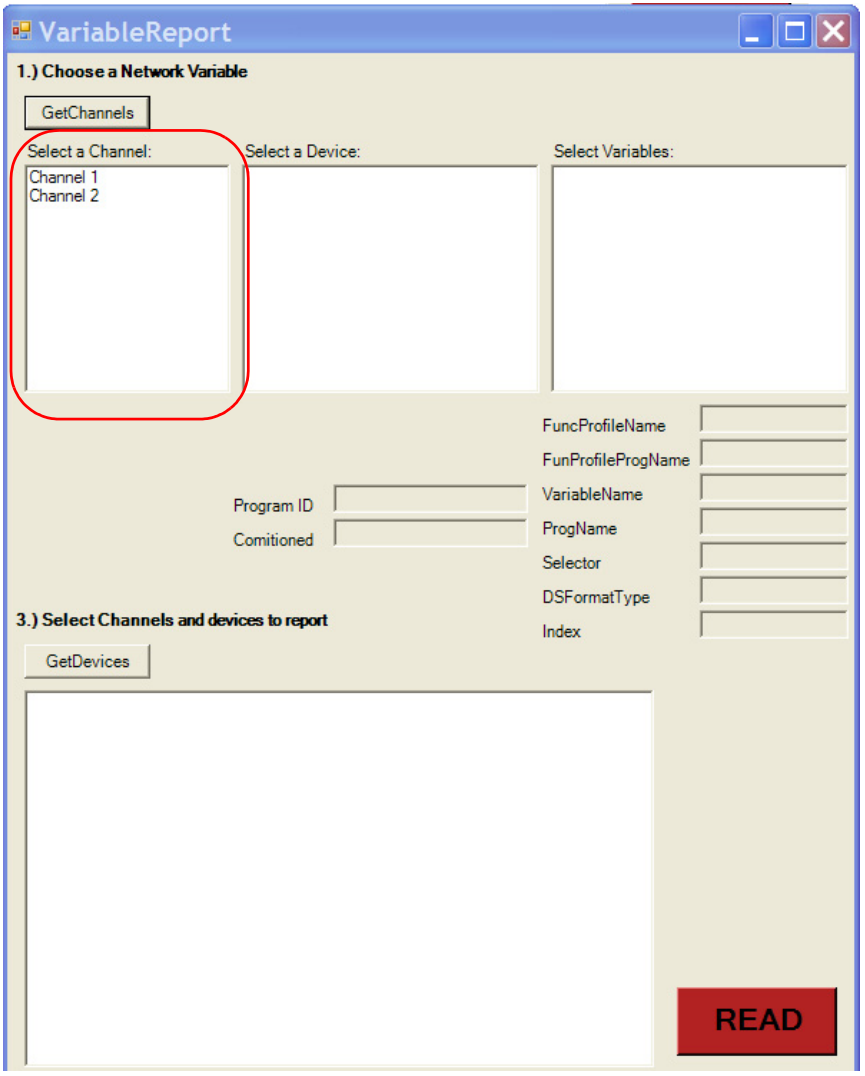
2. The ***Variable Report Generator*** utility will start.



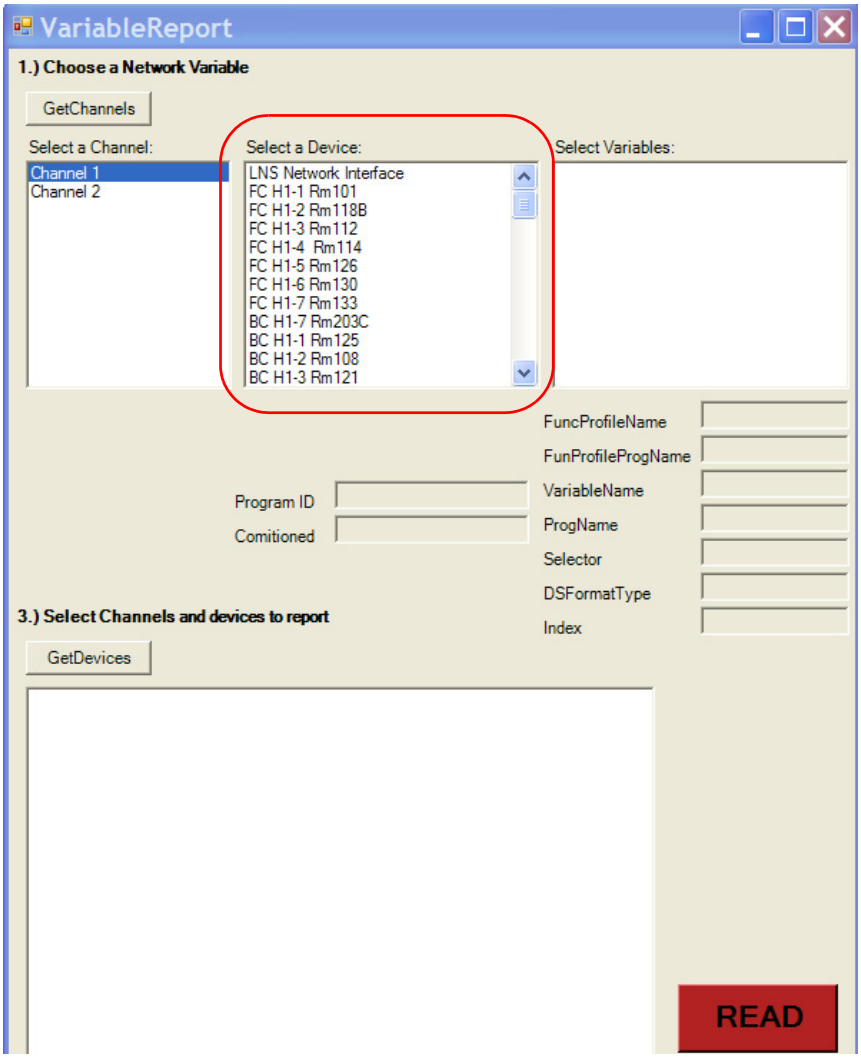
3. Click on the ***GetChannels*** button.



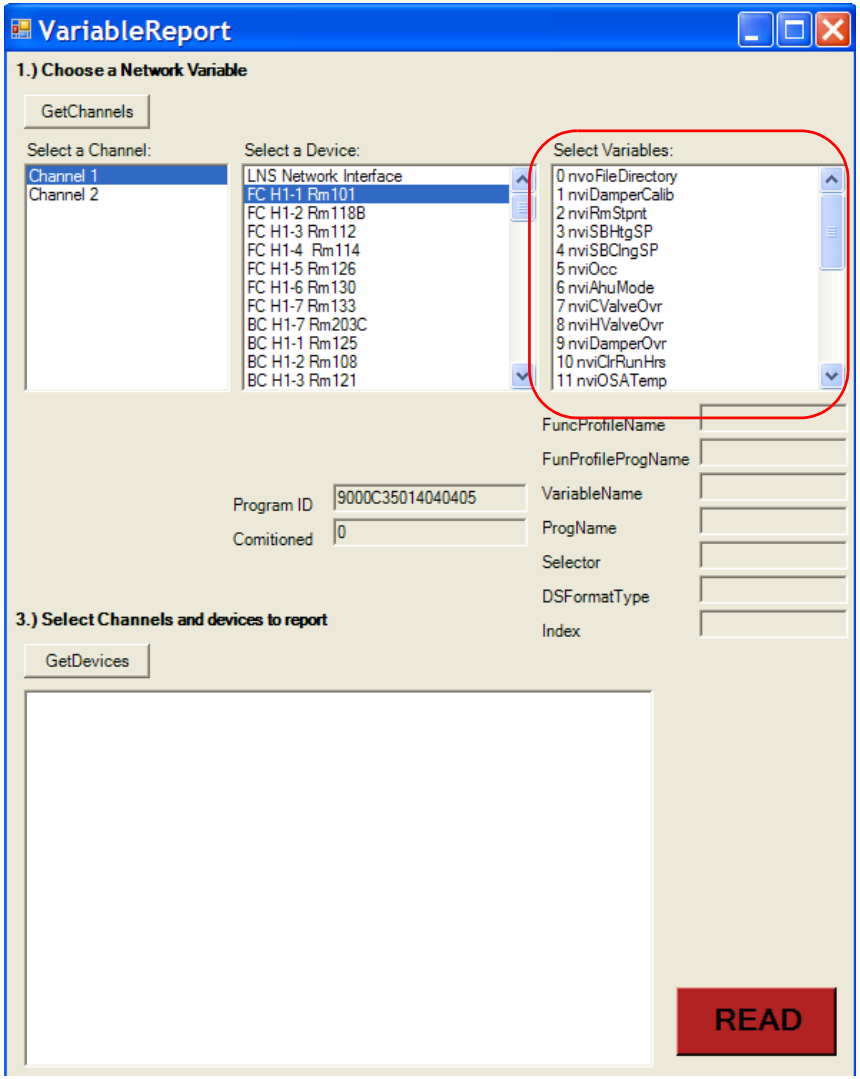
4. All the channel's on network will show in the ***Channels*** list. Choose the channel of the device you wish to use in your report.



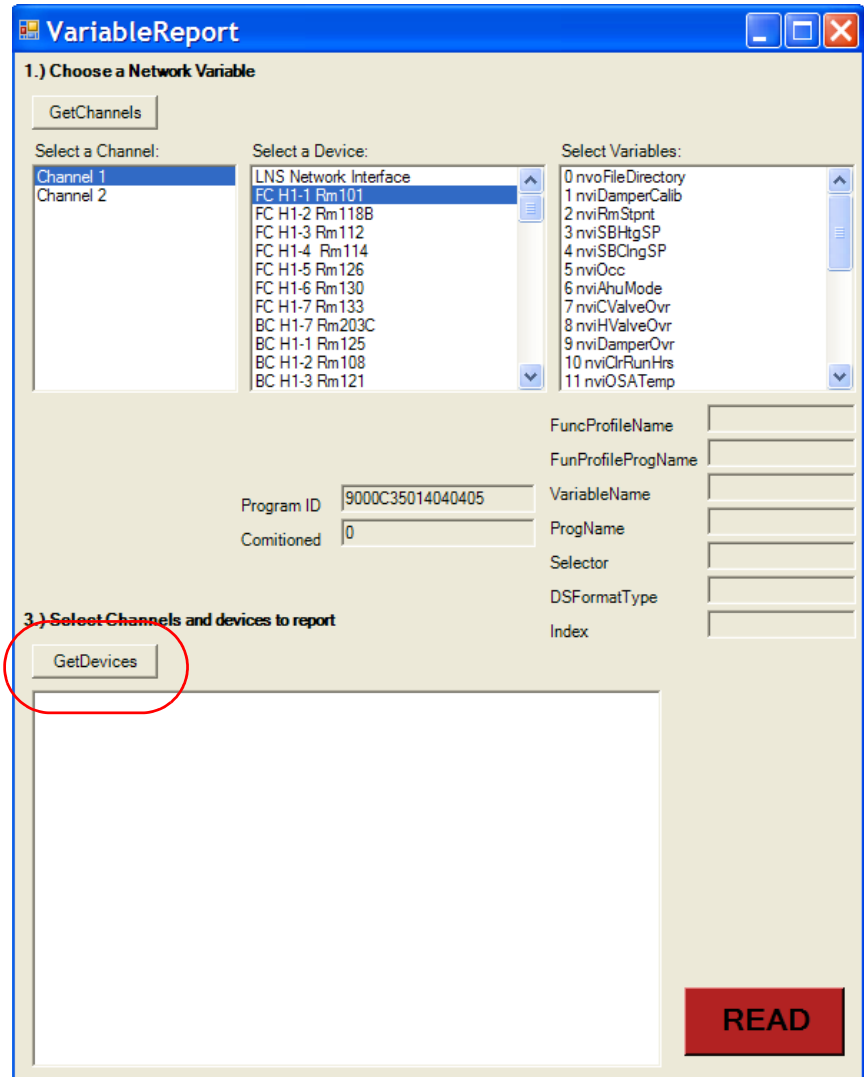
5. All the devices on that channel will show in the ***Device*** list. Choose the device you wish to use in your report.



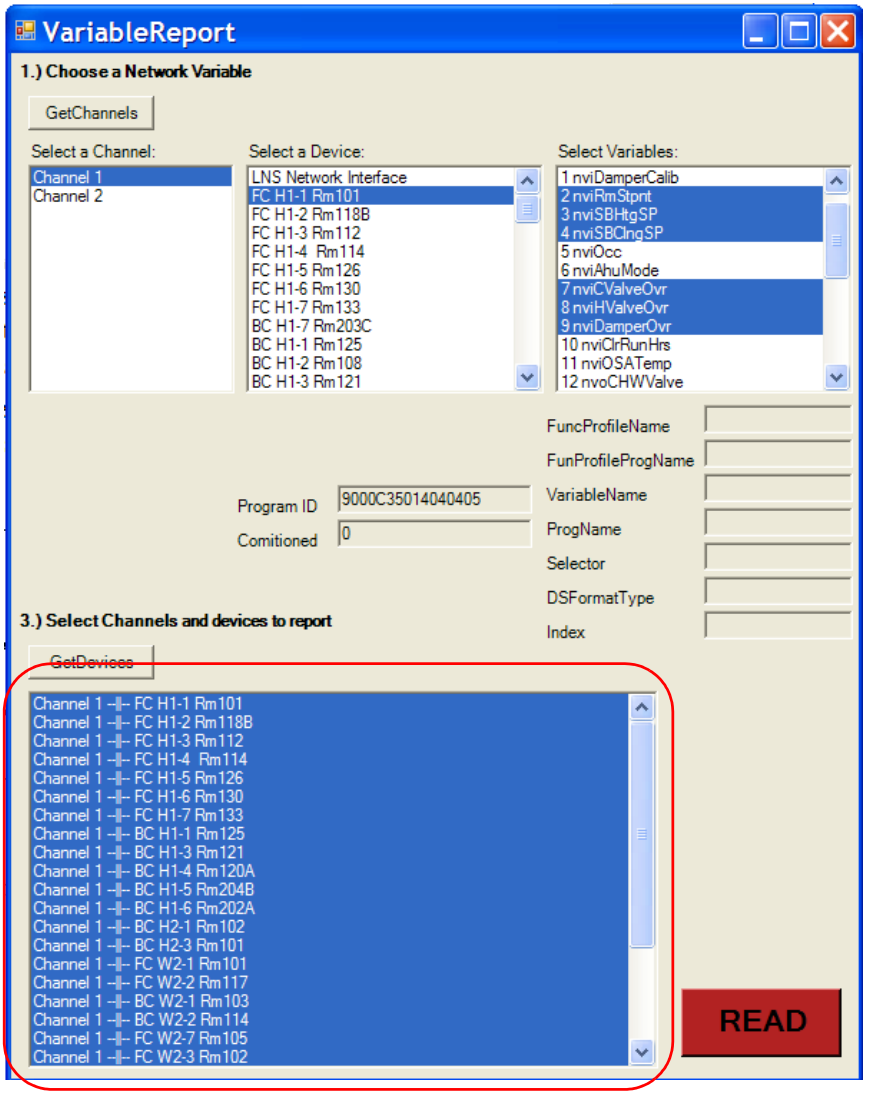
6. All the network variables for that device will show in the ***Variables*** list. Choose the variable's you wish to have in your report. You can hold the ***Shift*** and ***Cntrl*** buttons to modify you selections.



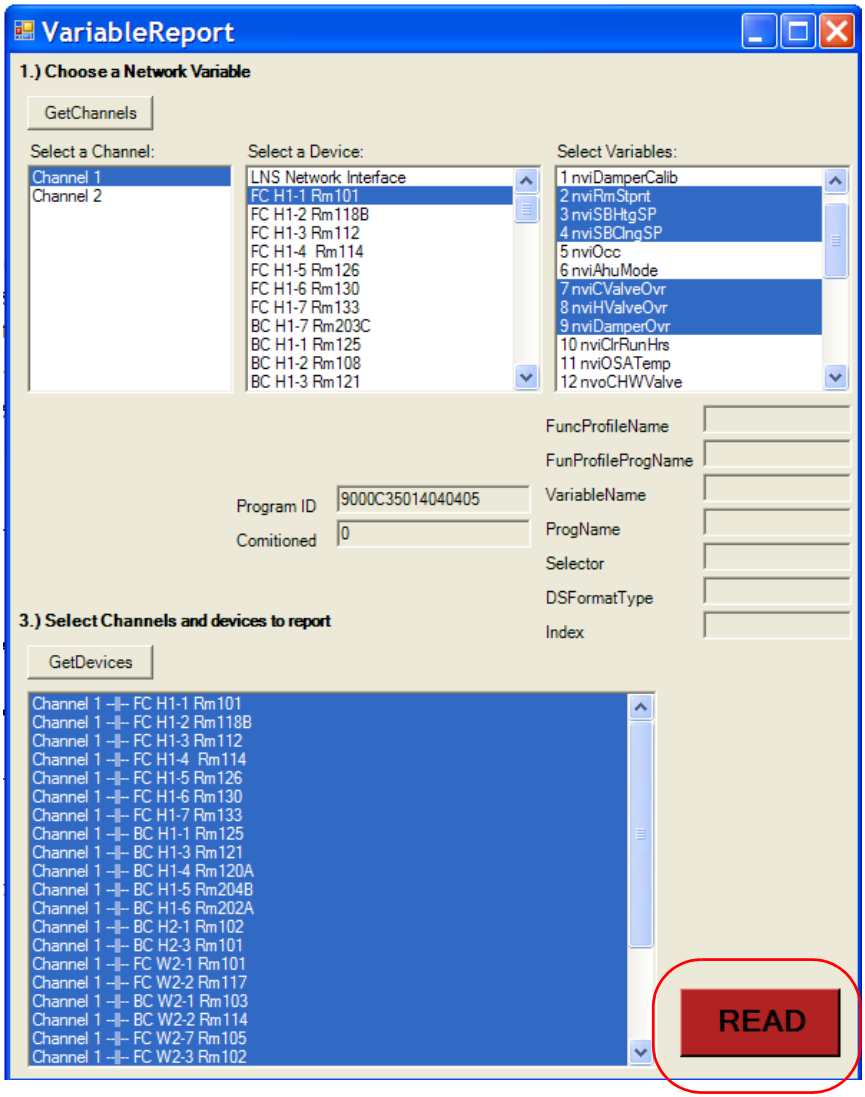
7. Click the ***GetDevices*** button.



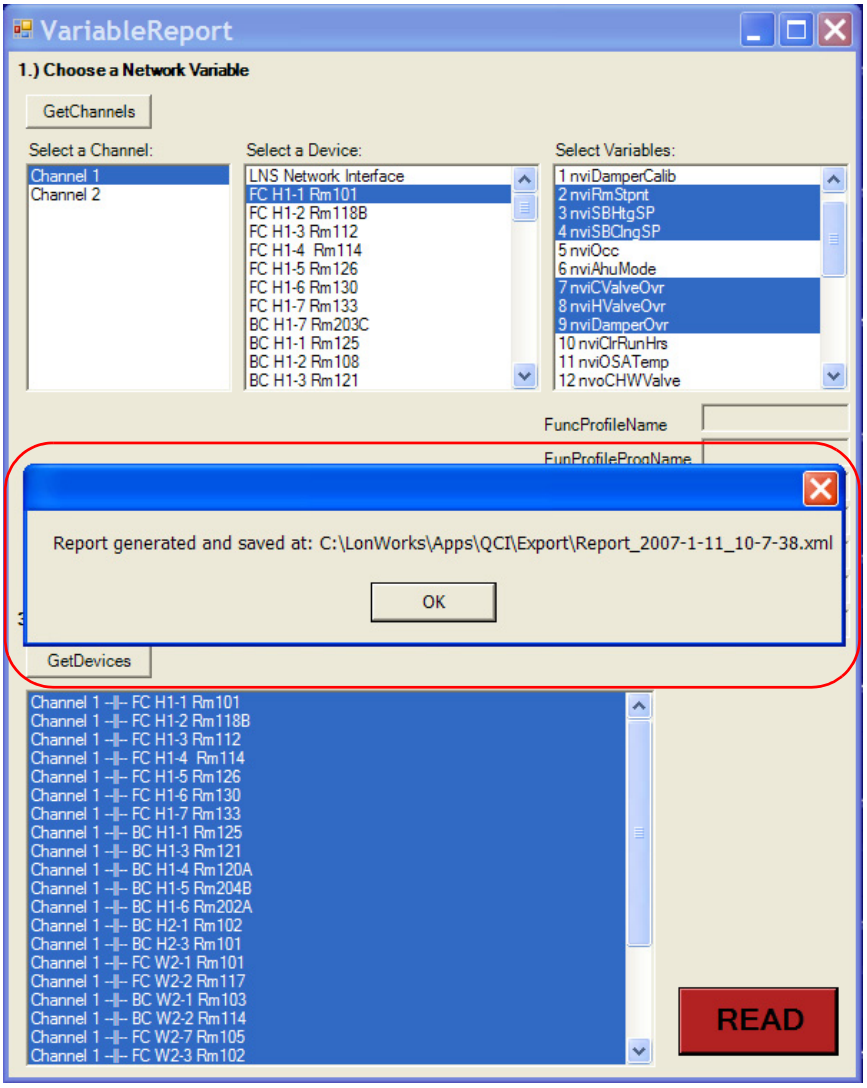
8. All the devices on the network that match the ***Program ID*** of the template device will show in the list below the ***GetDevices*** button. Choose the devices you wish add to your report. You can hold the ***Shift*** and ***Cntrl*** buttons to modify you selections.



9. When the target devices have been selected click the ***READ*** button to generate the report with containing the selected devices and variables.



10. When the report is done being created a pop up box will display with the location of the XML file.



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