



## Tutorial Guide



IDEC CORPORATION

# Introduction

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For additional assistance, demos or upgrades for WindCFG or other IDEC software please visit [www.idec.com/downloads](http://www.idec.com/downloads).

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# 1 Overview

## 1-1 What is Automation Organizer?

Automation Organizer is a software suite that includes WindCFG (a system configuration tool), WindLDR (for programming IDEC PLCs) and WindO/I-NV2 (for programming IDEC OIs).

 Automation Organizer Suite	Software		
	 WindCFG	 WindLDR	 WindO/I-NV2
System Configuration Tool	✓		
IDEC PLC Programming		✓	
IDEC OI Programming			✓

### WindCFG – Design a System Configuration

- Create a system layout and configure components such as IDEC PLCs or Operator Interfaces.
- Add optional units such as I/O modules or accessories such as HMI modules to the layout.
- Device Addresses, Tags and Comments can easily be set. In addition any WindLDR and WindO/I-NV2 program files that have been associated to the components will be automatically updated with those settings.

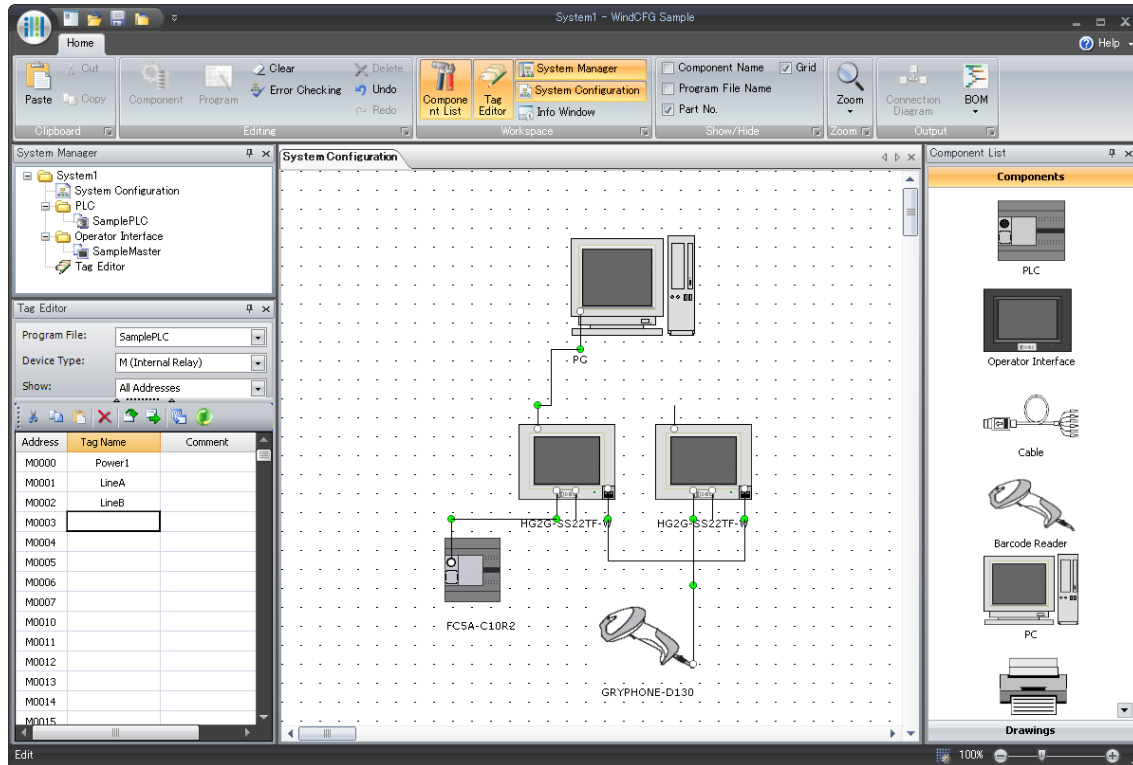
### WindLDR/WindO/I-NV2 – PLC & OI Programming

- From WindCFG you can simply launch WindLDR or WinO/I-NV2 and edit programs files directly.

Note: For additional assistance, demos or upgrades for WindCFG or other IDEC software please visit [www.idec.com/downloads](http://www.idec.com/downloads).

## 1-2 What is WindCFG?

WindCFG is a system configuration tool that you can use to create a layout of your project showing each component (i.e. PLC, Operator Interface, Barcode Reader, etc.). You can then configure each component and launch software applications related to those components such as WindO/I-NV2 (IDEC OI programming software) and WindLDR (IDEC PLC programming software). WindCFG also allows Tag and Comment sharing between WindO/I-NV2 and WindLDR. In addition, it enables you to visually see your project layout and assists in creating project documentation.



## 1-3 Key Features

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Key features of WindCFG are as follows:

- **Tag and Comment Sharing Between WindLDR & WindO/I-NV2**  
You can share Tags or Comments allocated to Device Addresses in WindCFG between program files for WindLDR and WindO/I-NV2. See [Chapter 5 Tag Editor](#).
- **Create WindLDR & WindO/I-NV2 Program files with Basic Settings**  
Program files can be created for WindLDR and WindO/I-NV2 in WindCFG using components, port connections, and cables. See [Chapter 4-1 Associate a Program File with a Component](#).
- **Easy Management of Program Files.**  
WindCFG provides centralized management of program files for each component for WindLDR and WindO/I-NV2. See [Chapter 4 Program File Management](#).
- **Easy System Configuration**  
You can create a layout with an Operator Interface, PLC and other system components by easily dragging and dropping each component. You can also select component models and various parameter settings. See [Chapter 3 Basic Setup & Configuration](#).

### Additional Functions

- Review wiring diagrams for connections between components. See [Chapter 6-1 Display Connection Diagram](#).
- Preparation of BOM (Bill of Material) for system components. See [Chapter 6-2 Display BOM \(Bill of Material\)](#).
- Output a system configuration file in RTF format. See [Chapter 6-4 Printing and RTF Output](#).
- Error Check functions. See [Chapter 6-5 Error Check Function](#).

## 2 Getting Started

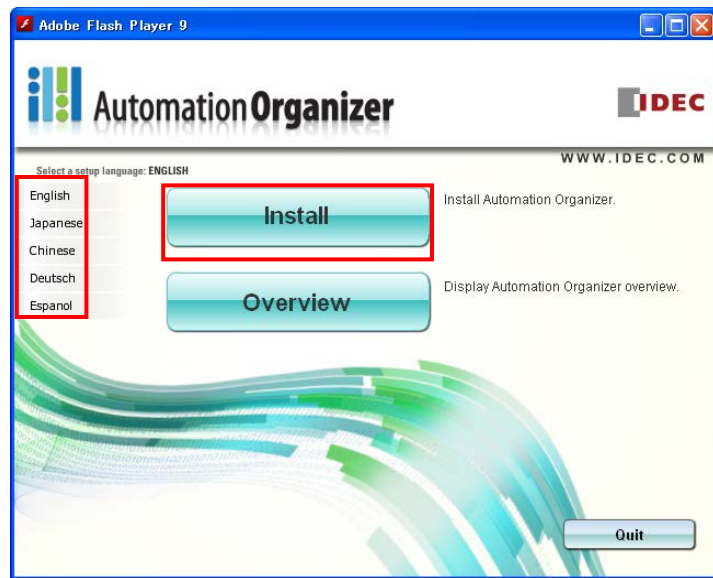
### 2-1 Installation

Install WindCFG using the Automation Organizer installer.

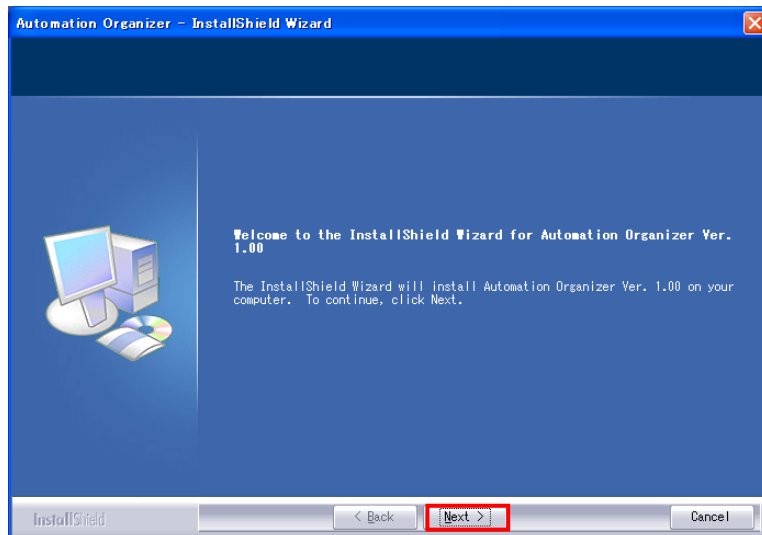
After installation, an IDEC Automation Organizer group is added to the Windows Start menu and the WindCFG icon is placed on the desktop.

For detailed installation instructions, refer to the Installation guide found on the Automation Organizer CD or visit [www.idec.com/downloads](http://www.idec.com/downloads).

1. Insert Disk1 (or Disk2) to the CD drive.
  - The Install launcher will open automatically.
  - Disk1 contains the application software and Disk2 has the manual.
2. Select the language of the software you want to install from the “Select Language” list, and click on the **Install** button.
  - The installer will run in the selected language.

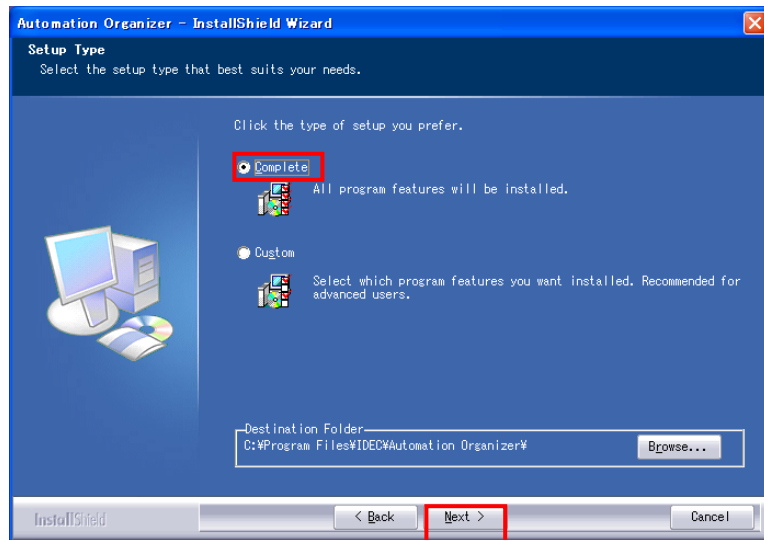


3. Click on Next.
  - If a previous version of WindO/I-NV2 or WindLDR has been installed, these software will be uninstalled automatically. However, WindLDR Ver.6.0 or lower versions are not uninstalled.



4. Select “Complete” if you want to install all software. Then click **Next**.

- Click on **Browse** if you want to change the location of the destination folder.

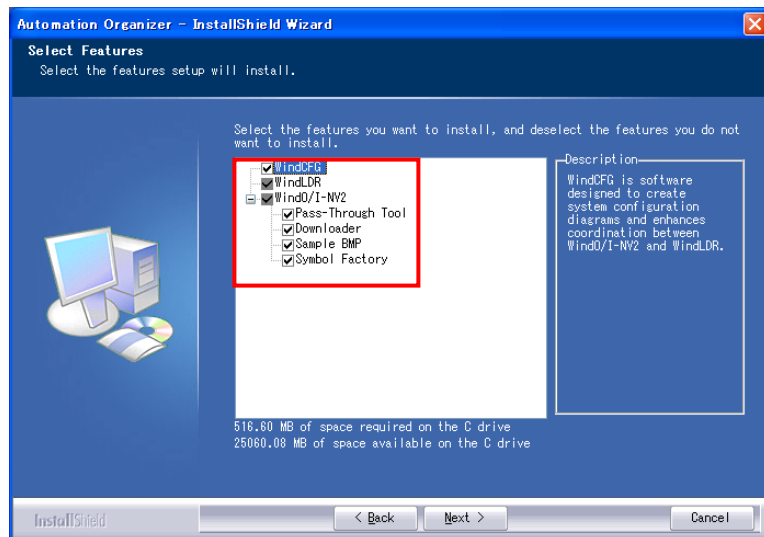


5. Select “Custom” if you want to choose the installation features. Then click **Next**.

- The “Select Features” dialog box will open.

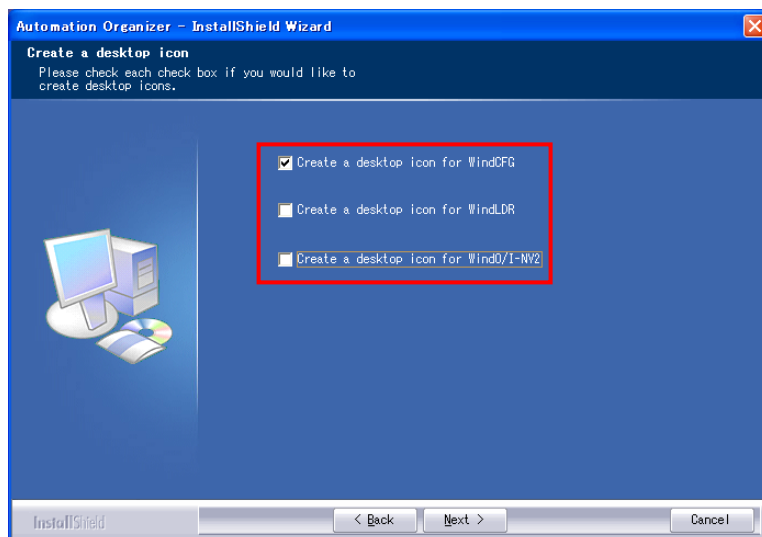
6. Select the Features you want to install. Then click **Next**.

- If you only want to install WindLDR or WindO/I-NV2 uncheck WindCFG. Then select the software you want to install.



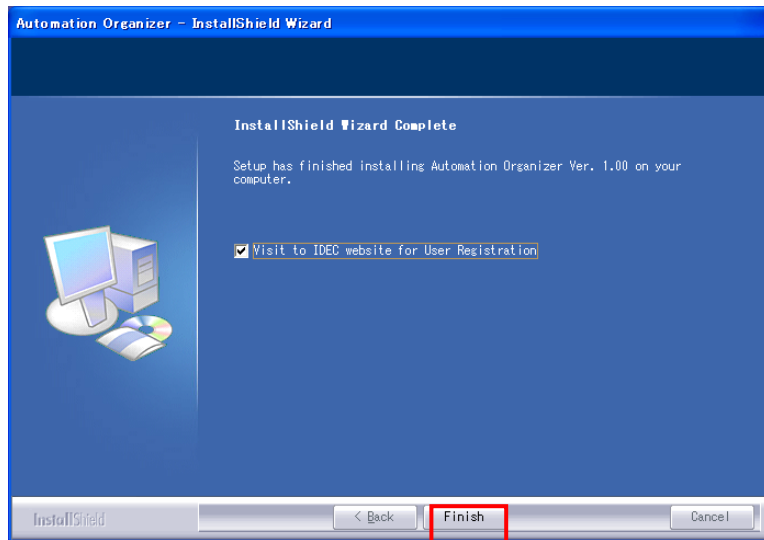
7. Click on the check box for the icons that you want to appear on your desktop (WindCFG, WindLDR or WindO/I-NV2). Then click **Next**.

- Installation will start.





8. Click **Finish**.
  - Go to User Registration Installation page if the check box is ON.



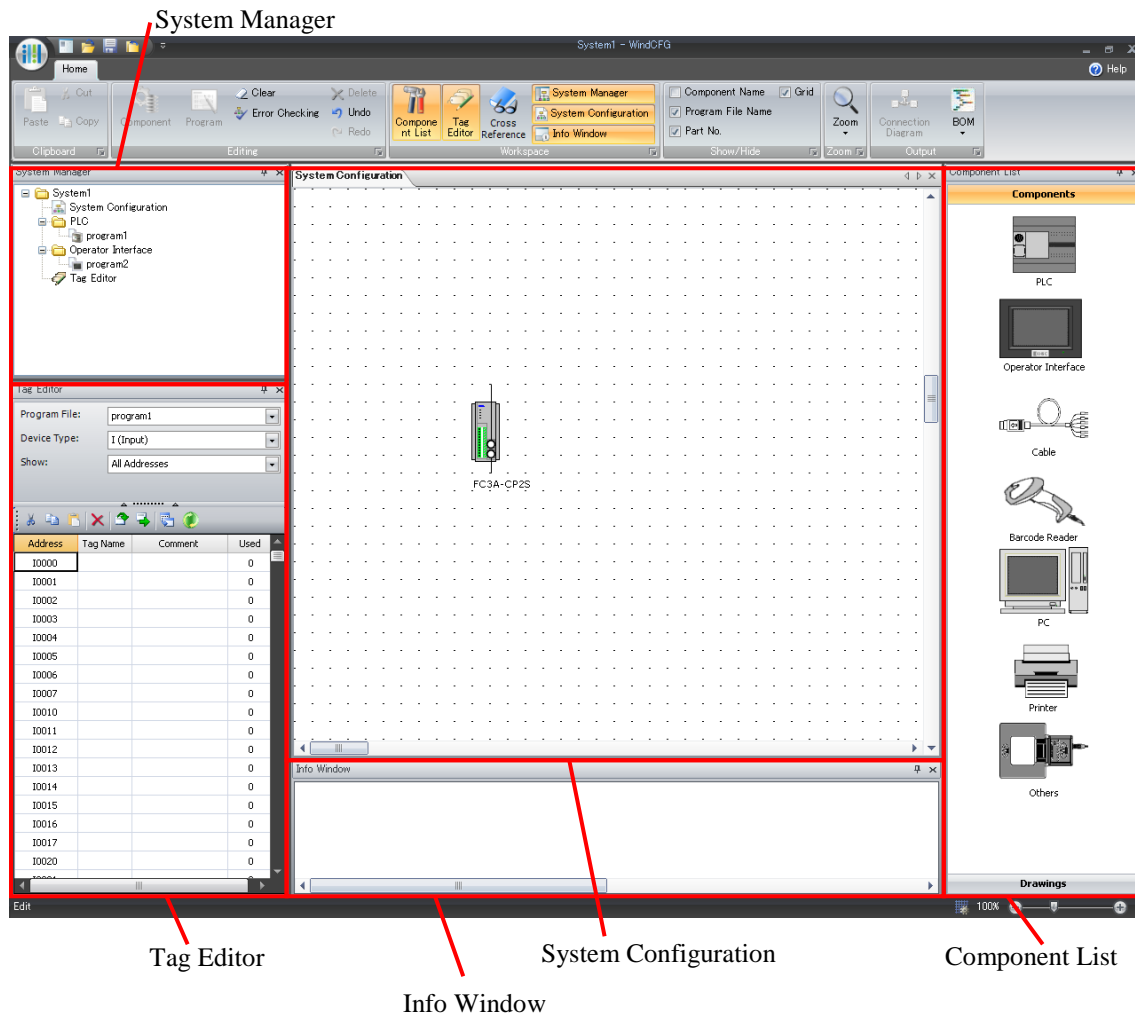
9. To install the Manual repeat Steps 1 through 8 using Disk2.

## 2-2 Starting WindCFG

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Double-click on the WindCFG icon on your desktop or click the WindCFG menu item in the Windows Start menu. WindCFG will start and the application window will open.

## 2-3 WindCFG Window Overview



System Configuration:

This window allows you to create a layout of your components and cables and configure each one.

Component List:

Displays a list of available components that can be used for system configuration. Create a system configuration by dragging and dropping component images displayed in this window to the System Configuration window.

System Manager:

Lists program files associated with the components on the System Configuration window.

Tag Editor:

Displays Device Addresses, Tags and Comments used for program files.

Info Window:

Displays error information regarding the system project created on the System Configuration window.

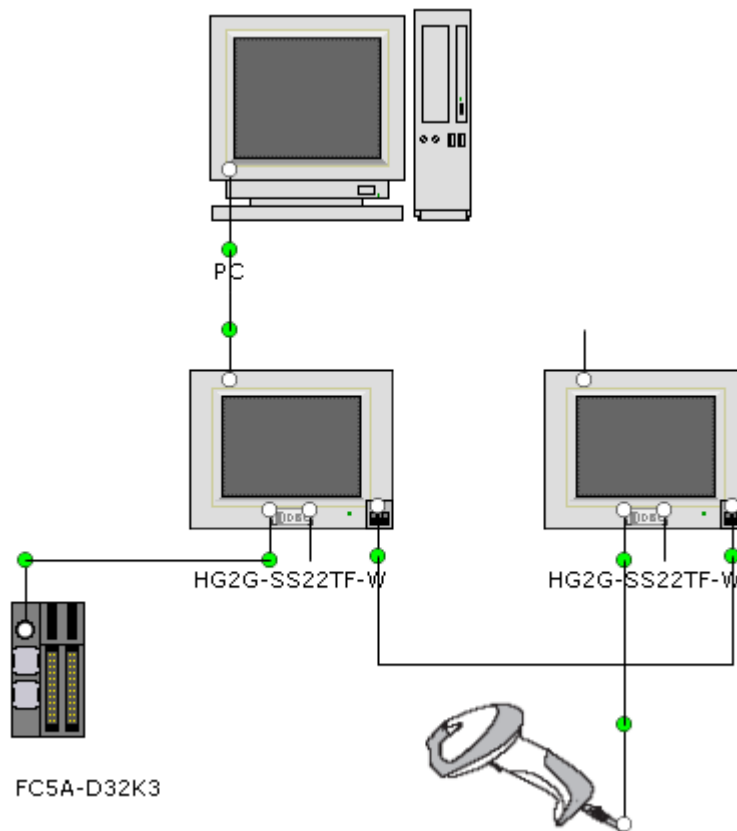
## 2-4 Example

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The instructions in the next chapter give you step-by-step directions to create the system configuration shown below.

Basically you will do the following:

1. Place components on the WindCFG configuration window. (See Chapter 3)
2. Connect those components with cables. (See Chapter 3)
3. Configure the cables. (See Chapter 3)
4. Save the WindCFG file you just created. (See Chapter 3)
5. Associate the components to either a new or imported WindLDR or WindO/INV2 program file (depending upon whether the component is a PLC or OI). This will create a complete project that includes the system configuration layout, and WindLDR and/or WindO/I-NV2 program files, within the WindCFG file. (See Chapter 4)



Note:

The systems including the following compositions cannot be made with WindCFG because they aren't supported in WindCFG.

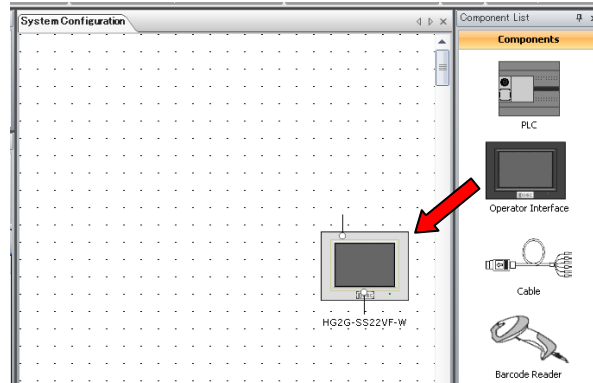
- Sub Host Communication that connects 2 PLCs with 2port on 1 Operator Interface.
- 1:N Communication that connects 2 or more PLCs with 1 Operator Interface.

## 3 Basic Setup & Configuration

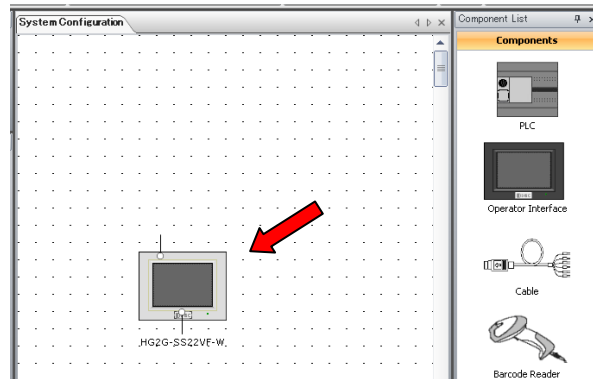
### 3-1 Placing Components on the Window

In this section, you will place components used for the system configuration on the screen.

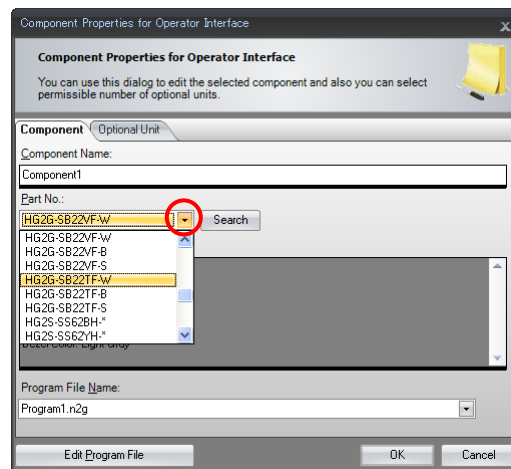
1. Select **Operator Interface** from the component list, and drag and drop this component on to the system configuration window.
  - The Operator Interface is placed on the window.



2. Move the Operator Interface using drag and drop operations.
  - You can move the component to any position on the window.



3. Double-click the Operator Interface placed on the window.
  - The Properties dialog box for the Operator Interface will open.
4. Select a Part No. by clicking on ▾ for **Part No.**
  - In this example, select “HG2G-SS22TF-W”.

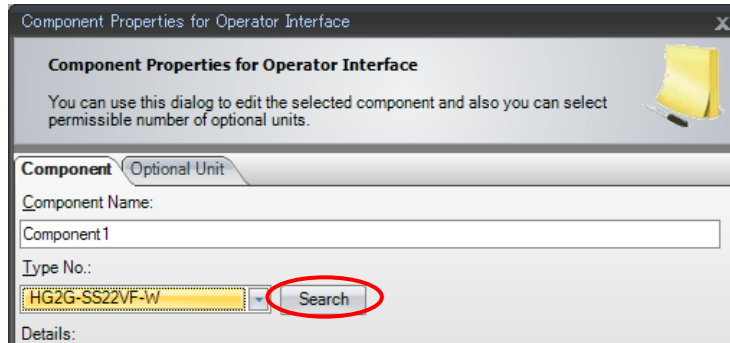






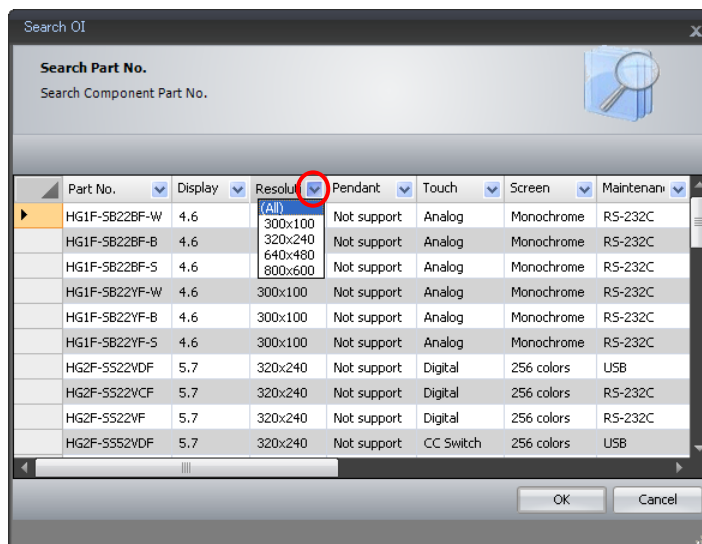
## How to search for the correct Operator Interface model.

Click on the Search button for additional options to help in selecting the Operator Interface model.

- Steps    1    Click Search in the Properties dialog box.
- A dialog box will open, allowing you to select the type of Operator Interface.

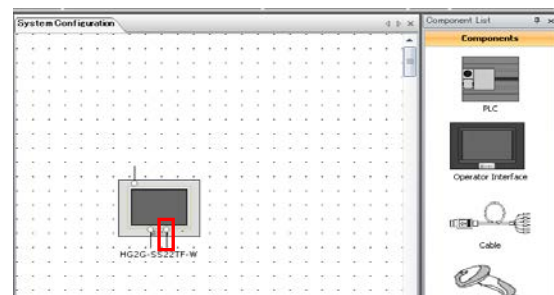


- 2    Click  in the list header.
- In this example, click  for Resolution.

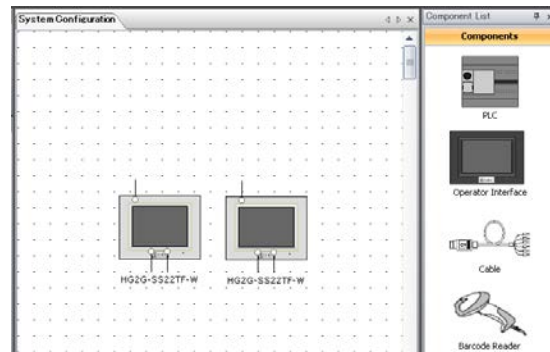


- 3    Click on your selection.
- Additional options are available.
- 4    Select the desired Part No.

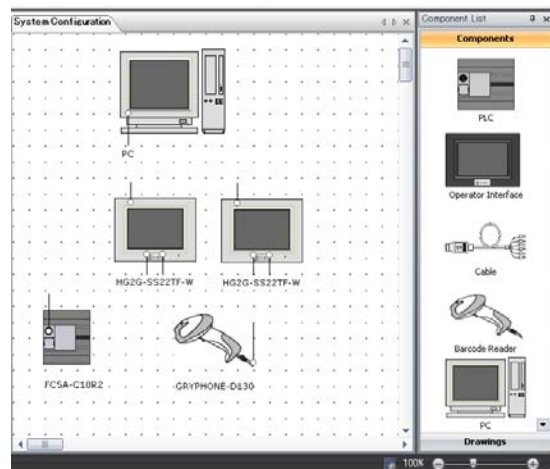
5. Click **OK**.
- “HG2G-SS22TF-W” is placed on the window.
  - “HG2G-SS22TF-W” has an Ethernet port, so that port is added to the component.




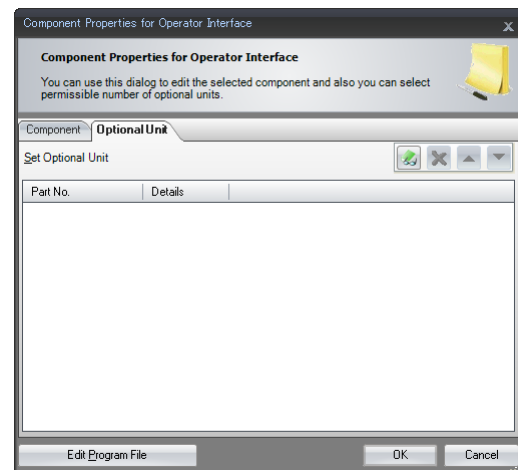
6. Copy the Operator Interface using copy & paste.
  - A second “HG2G-SS22TF-W” is placed on the screen.
  - If the Part No. of the second Operator Interface is different from the first unit, place a new Operator Interface on the window by repeating Step 4 above).



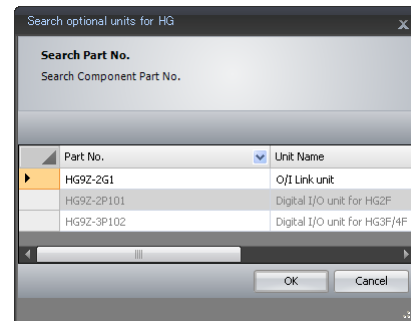
7. Place a PLC, a Barcode Reader and PC on the window by following Step 1 through 5 above.
  - In this example, "FC5A-C10R2" is selected for the PLC and "GRYPHON D130" is selected for the Barcode Reader.



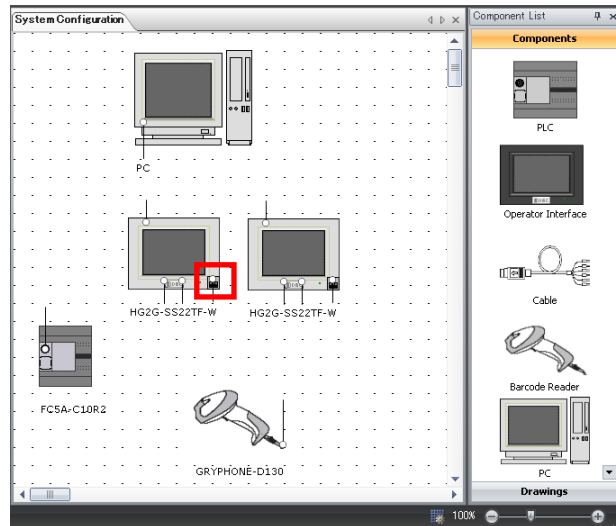
8. Double-click the first “HG2G-SS22TF-W” component then click the Optional Unit tab on the properties dialog box.
  - Click the  icon to view the list of Optional Units.



9. Select an Optional Unit then click **OK**.
  - The operation of this dialog box is the same as Step 4 above (Selecting a Part No.).

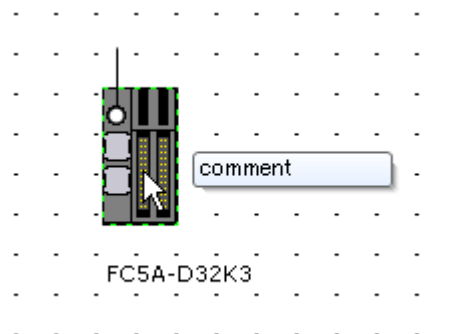


10. Click **OK** on the Operator Interface properties dialog box.
  - An O/I Link port is added to the component image.



## Displaying ScreenTips

You can view your comment set in the Comment tab of a component's Properties dialog box in ScreenTips. When you rest the pointer on a component in System Configuration window, a comment set in it is displayed as a small window.



## 3-2 Connecting Components with Cables

In the following example, you will place cables between components to connect them together. The cables are connected using the following networks.

PLC and Operator Interface:

PC and Operator Interface:

Operator Interface and another Operator Interface:

Operator Interface and Barcode Reader:

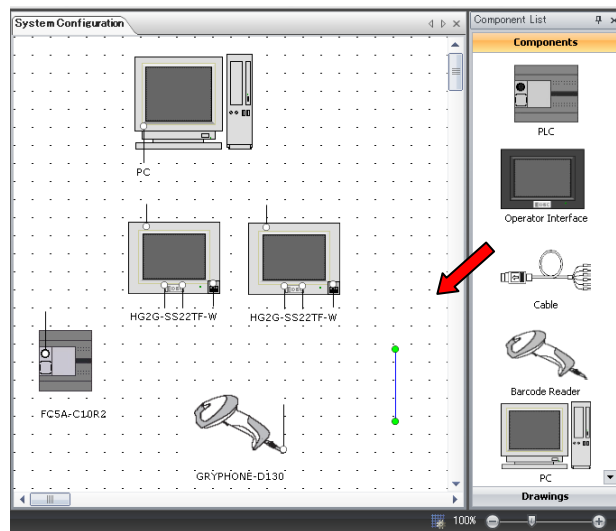
Serial

Ethernet

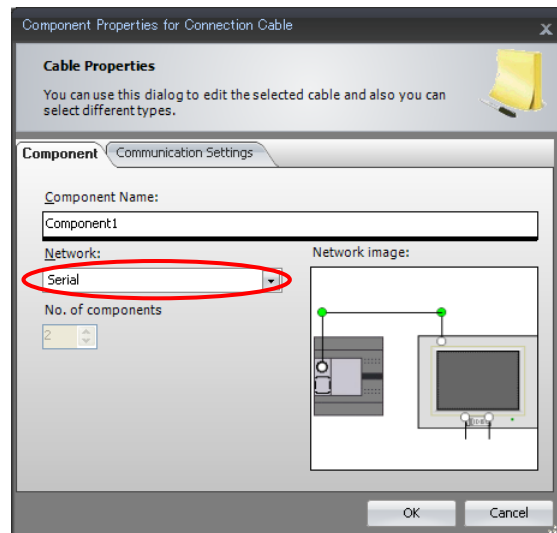
O/I Link

Serial

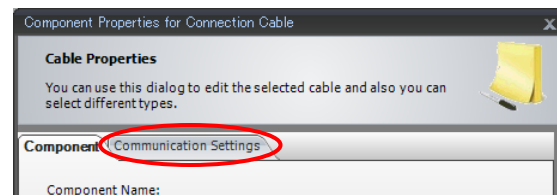
1. Select **Cable** from the component list, and drag and drop this cable into the system configuration window.
  - The cable is placed on the window.




2. Double-click the cable.
  - The Cable Properties dialog box will open.
3. Select "Serial" under Network.



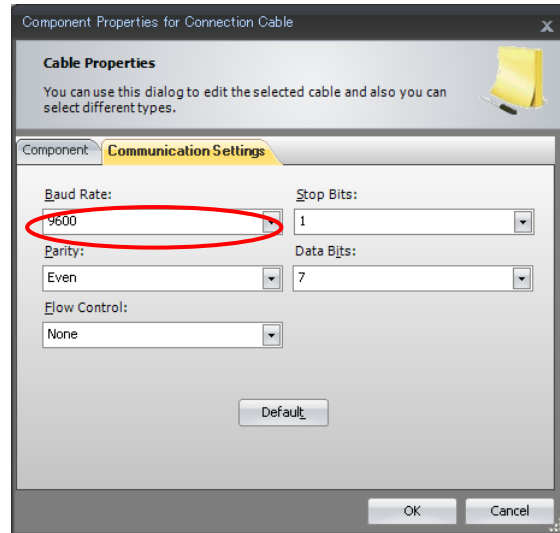
4. Click the **Communication Settings** tab.
  - The property page for Communication Settings will open.
  - You can set the communication settings between PLC and Operator Interface.





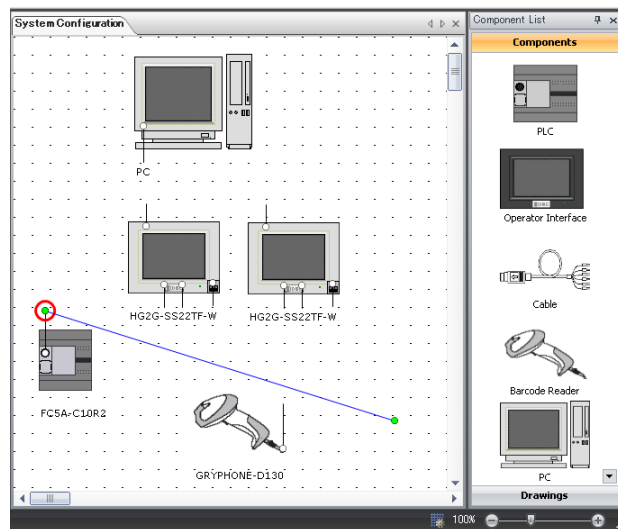
5. Select Baud Rate by clicking on  for **Baud Rate**.

- In this example, “9600” is selected.
- Set the same settings for the other components.

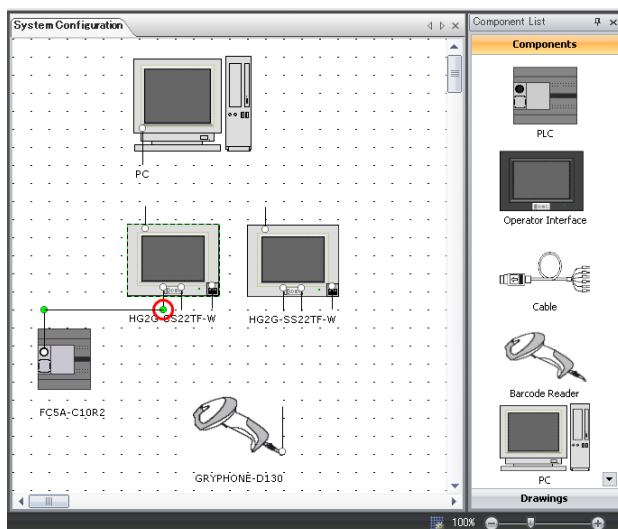


6. Click **OK**.
  - The Serial cable is now configured and appears on the system configuration window.

7. Drag the edge of the cable and connect to the antenna of the PLC.
  - To move a cable, drag a point that is not connected to any components.

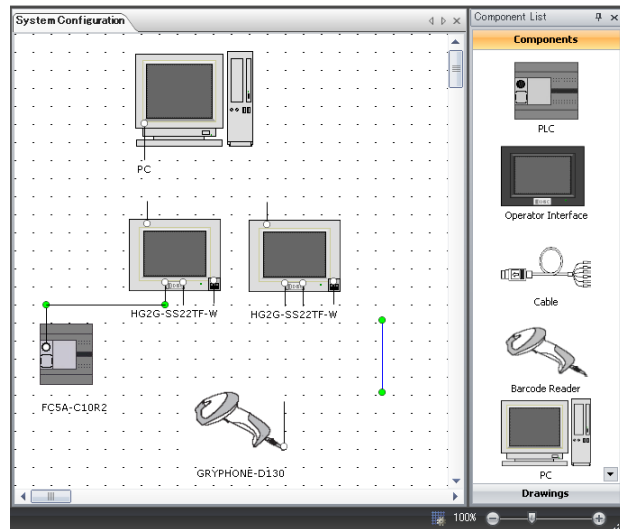


8. Drag the other edge of the same cable and connect it to the antenna of the Operator Interface.
  - When a cable is connected, the color of the cable will change from blue to black. Blue indicates that a cable has not been connected to any components.



9. Select **Cable** from the component list and drag and drop this cable into the system configuration window.

- The cable will be placed on the window.

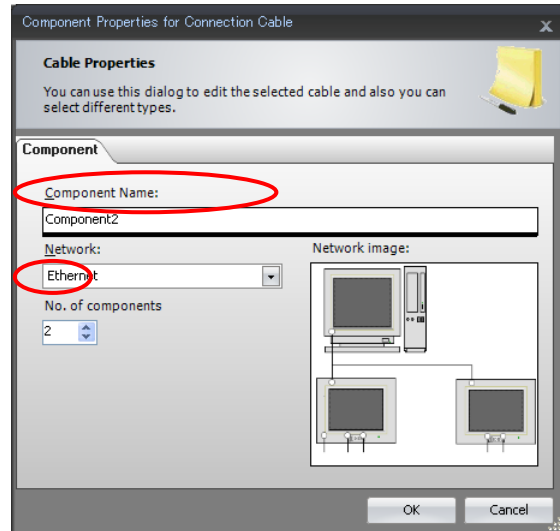


10. Double-click on the cable.

- The Cable Properties dialog box will open.

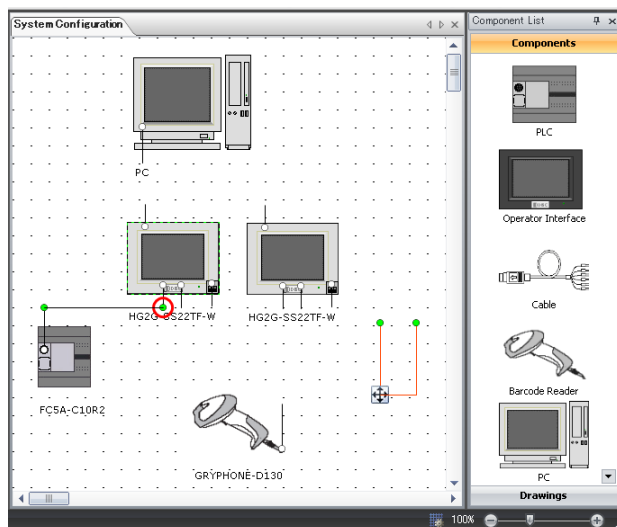
11. Select "Ethernet" by clicking on ☐ for **Network**.


- Set No. of components to 2.

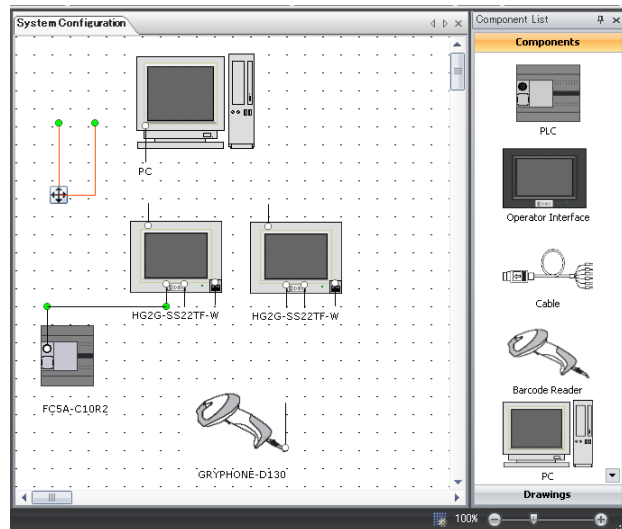


12. Click **OK**.

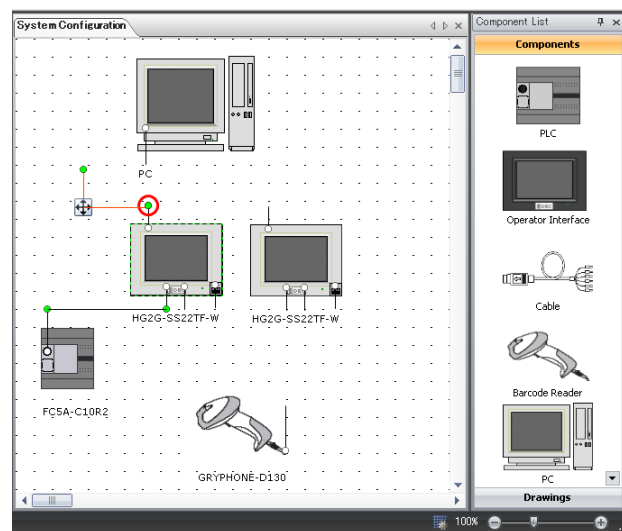
- The Ethernet cable will be placed on the system configuration window.



13. Move the cable by clicking and dragging the move icon  on the cable.

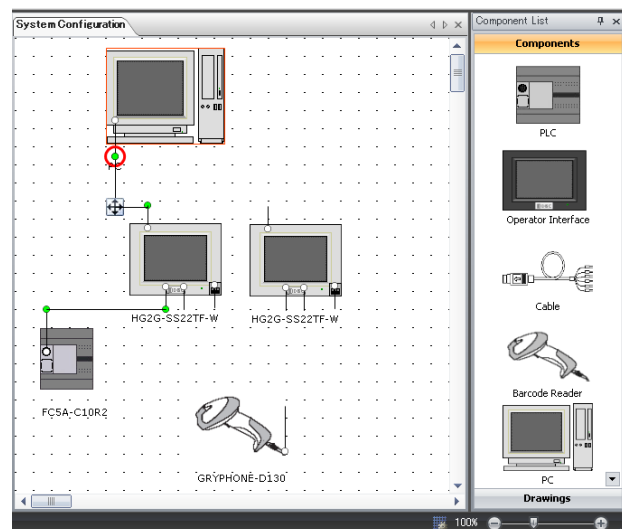


14. Drag the edge of the cable to the Operator Interface antenna.
- To move a cable, drag a point that is not connected to any components.



15. Drag the other edge of the cable to the PC antenna.

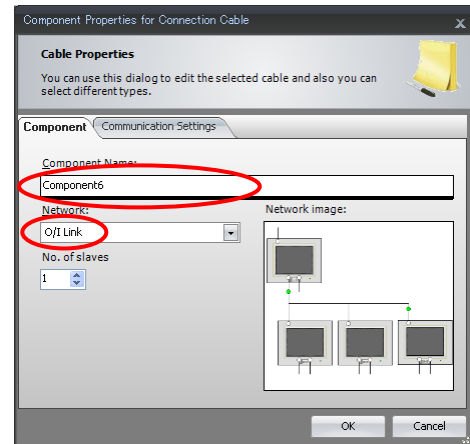
- When a cable is connected, the color of the cable will change from blue to black. Blue indicates that a cable has not been connected to any components.



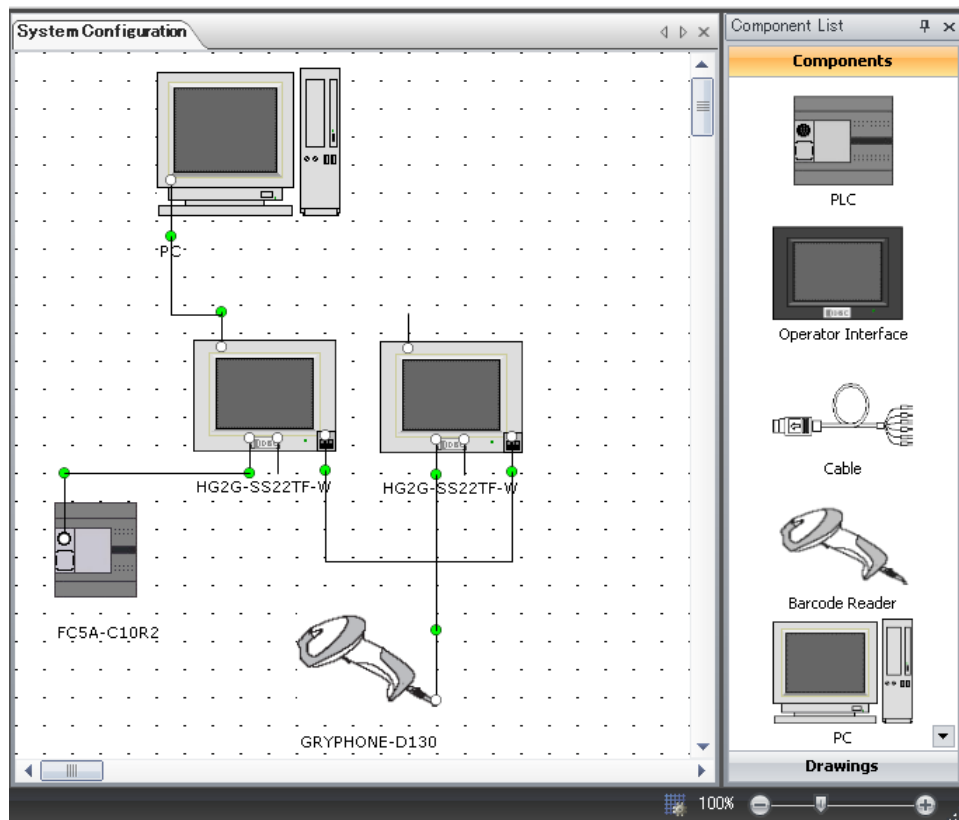
16. Use an O/I Link cable to connect two Operator Interfaces and a Serial cable to connect an Operator Interface and a Barcode Reader using the above steps.

Select "O/I Link" by clicking  for **Network**.

- Set 1 as the **No. of slaves**.



17. All system components are now connected via cables.





### How to detach a cable.

To detach a cable from a component, simply click on the edge of cable then drag it away from the component.

### 3-3 Configuring Ports for Components

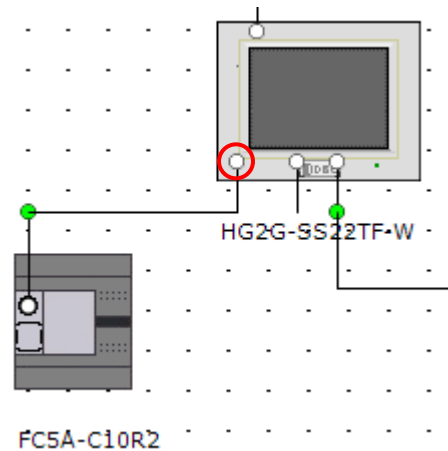
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In this section, you will configure the port of the component connected to the cable.

Memo:

It is not necessary to change the port settings if the default settings are met to your configuration.

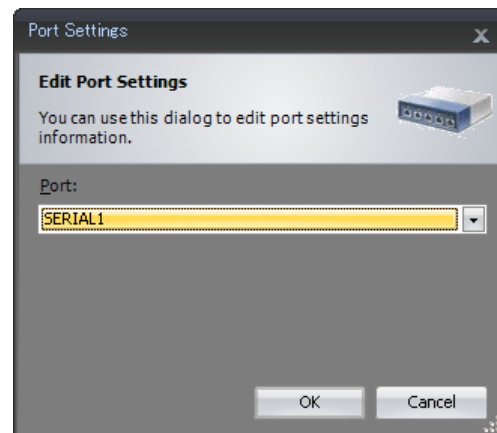
1. Double-click the white circle of the Operator Interface that is connected to the PLC via the Serial cable.
  - The Port Settings dialog box will open.



2. Set "Serial 1" for the Port, and click **OK**.
  - "Serial 1" is now set as the connection port between the Operator Interface and PLC.

Note:

When this program is saved (see Section 3-4) the port setting ("Serial 1") will also be saved. In addition, the port setting will be retained in any file that is associated to the component (see Section 4-1) including a new program file or imported program file.

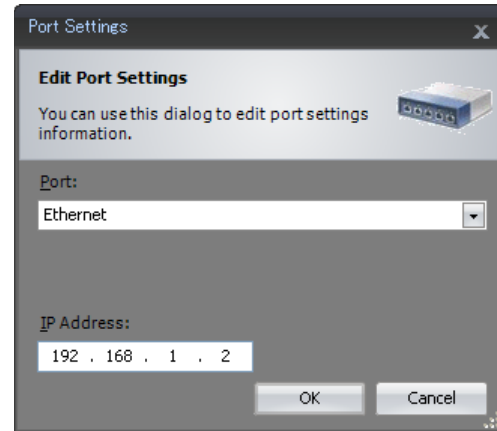


3. Double-click on the white circle of the Operator Interface connected to the PC via the Ethernet cable.

4. Set "Ethernet" for the port and IP Address, and click **OK**.
  - "Ethernet" is now set as the connection port between the Operator Interface and PC.

Note:

When this program is saved (see Section 3-4) the port setting ("Ethernet") will also be saved. In addition, the port setting will be retained in any file that is associated to the component (see Section 4-1) including a new program file or imported program file.

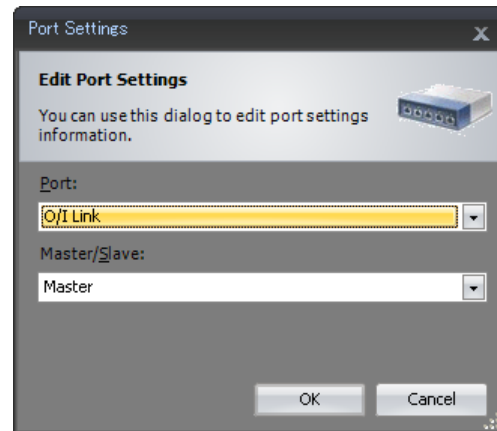


5. Double-click on the white circle of the Operator Interface that is connected to the other Operator Interface via the O/I Link cable.

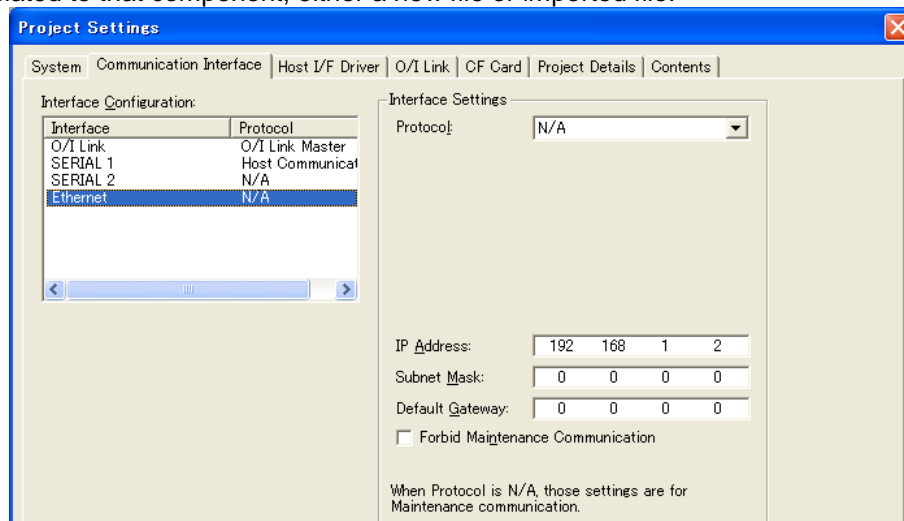
6. Set "O/I Link" for the port and "Master" for the Master/Slave, and click **OK**.
  - "O/I Link" is set for the connection port between the Operator Interface and the second Operator Interface.

Note:

When this program is saved (see Section 3-4) the port setting ("O/I Link") will also be saved. In addition, the port setting will be retained in any file that is associated to the component (see Section 4-1) including a new program file or imported program file.



7. After all the Port Settings have been configured they will be retained in any program file associated to that component, either a new file or imported file.



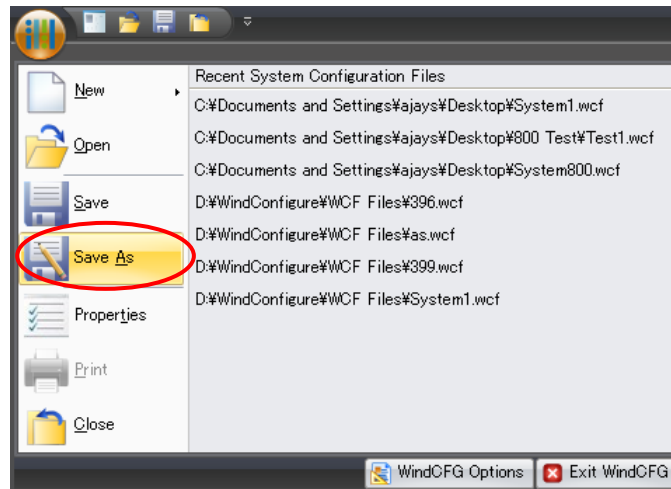
8. Configure the port settings for other components using the same steps as for this Operator Interface.

### 3-4 Saving

In this section, the system configuration file you created will be saved in WindCFG.

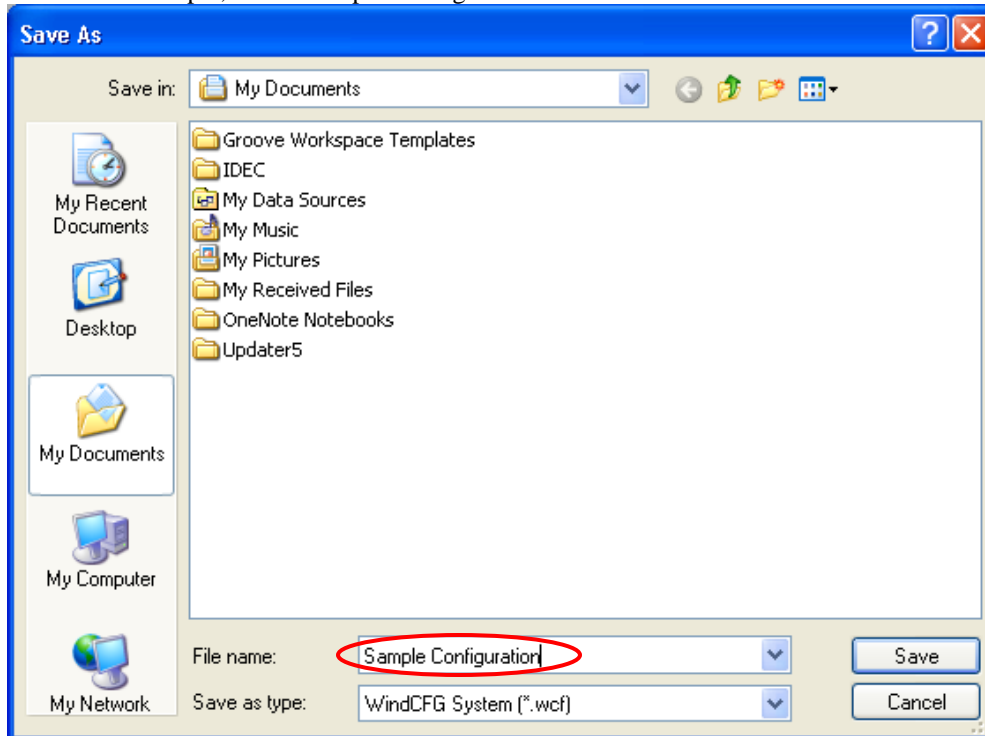
1. Click **Save As**.

- If the newly created system configuration has not been saved yet, the Save As dialog box will open.



2. Select the location, enter a file name, and click Save to save the system configuration.

- In this example, enter “Sample Configuration” as the file name.



### Password Settings

You can set a password for your editing project. To create a new password, click **Application** menu > **Properties** > **File Information** tab > **Password**. The password can be 4 to 15 characters.



## 4 Program/Project File Management

You can manage a project file that you created with WindCFG, WindLDR or WindO/I-NV2 using the IDEC PLC and Operator Interface components placed in the system configuration window.

Through management of a program file, the following operations are possible:

- **Program file editing**

If a program file has been associated with a PLC or Operator Interface component, you can launch the application software and edit the program file. (If the program file is not associated with in any software application, it cannot be opened.)

- **Centralized management of program files**

If the program files are associated with WindLDR or WindO/I-NV2, they can be saved in a WindCFG file. As a result, these files can be managed within a single file. (For a program file other than WindLDR or WindO/I-NV2, only the link is saved. The program file itself will not be saved.)

- **Configuration Data Retention**

If you associate a component to a new program file, that program file will include the system configuration data related to that component, such as port settings, product part numbers, cables, etc. (Only applies to files for WindLDR or WindO/I-NV2.)



### 4-1 Associate a Program File with a Component

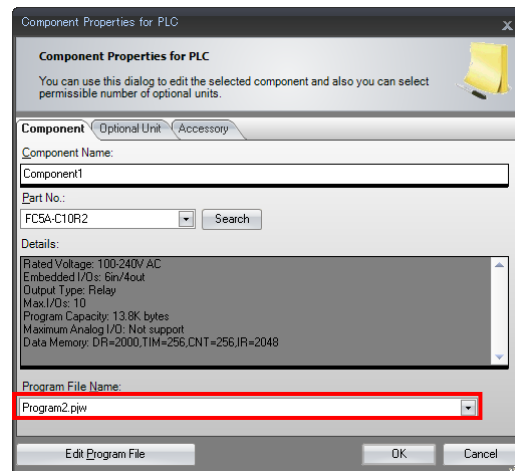
In this section, you will associate a program file with a PLC. This will allow you to edit the program file from WindCFG.

1. Open the properties dialog box for the PLC placed on the system configuration window.

2. Enter the program file name you want to create to **Program File Name**.

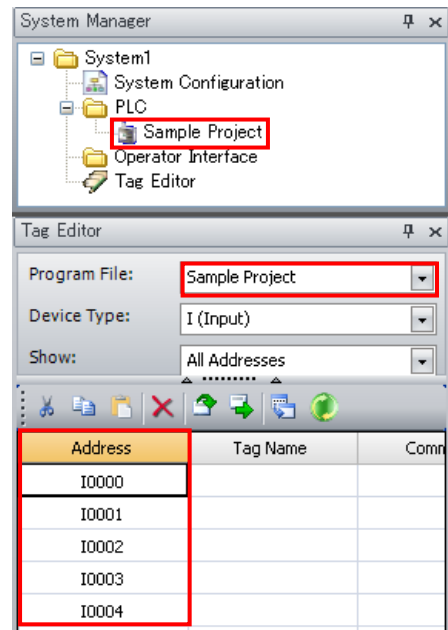
- In this example, “Sample Project” is set.

- ❖ If you want to associate the program file already registered to System Manager, select the file with clicking .
- ❖ If you want to associate program file for PLC except IDEC, import the file to System Manager then select the file with clicking .



3. Click **OK**.

- A program file is now associated with the component. Sample Project is displayed on System Manager and Tag Editor.
- Device Addresses for the program file are displayed on Tag Editor.



## 4-2 Create/Edit Program Files

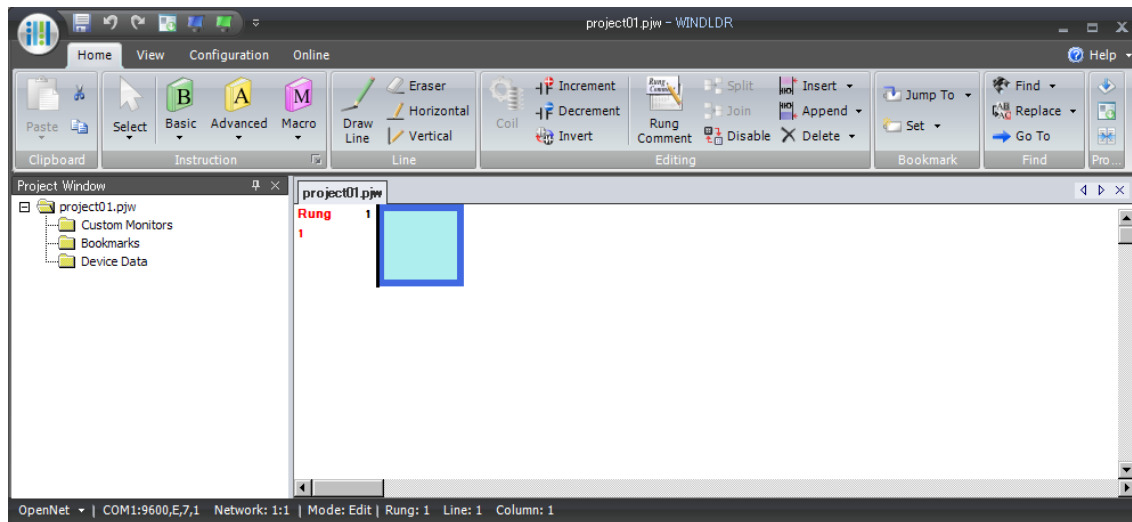
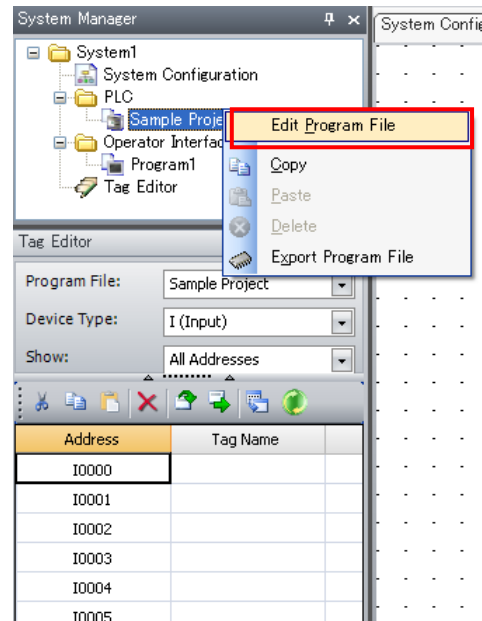
In this section, you will create a new program file or edit a program file associated to a PLC.

1. Select “Sample Project”, and click the right mouse button.

- A context menu will open.

2. Click **Edit Program File**.

- WindLDR will be launched.
- If system configuration is invalid or port settings aren't done, new project isn't created. Correct invalid settings.
- Even if system configuration is changed, the change isn't reflected to the existing program file. So create new program file after completing the system configuration.



If the program file is associated with WindO/I-NV2, WindO/I-NV2 will be launched.

Note:

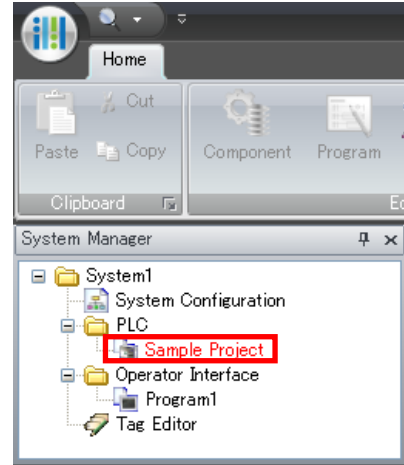
Even if the program file isn't associated with WindLDR or WindO/I-NV2, it can still be opened by the application software it has been associated with if installed on your PC.

But only the information of the path where the program file is saved is set to the editing system configuration. So if you move the file to other folder, you can't open the file.

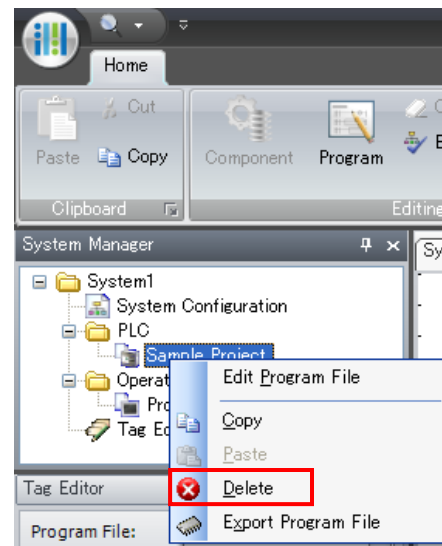
### 4-3 Delete Program Files

In this section, you will delete a program file that is not associated with any component. Even if a component that is associated with a Program file is deleted from the system configuration window, the program file isn't deleted from System Manager.

1. Program files not associated to any component are displayed in red in System Manager.



2. Select the program file to be deleted from System Manager, and click the right mouse button.
  - A context menu will open.



3. Click Delete.
  - The program file is deleted.

Note:

A program file used for system configuration cannot be deleted.

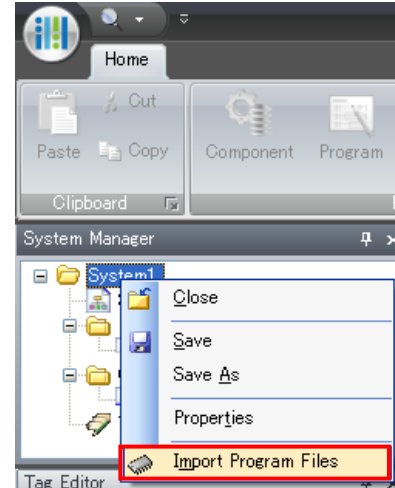
## 4-4 Import Program Files


In this section, you will import a program file.

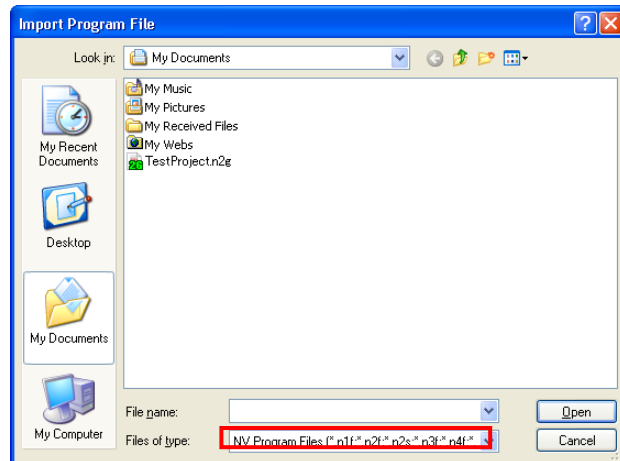
If you don't associate a program file with a component you must import the file before you can edit it.

If you want to associate the existing program file, import the file to System Manager first.

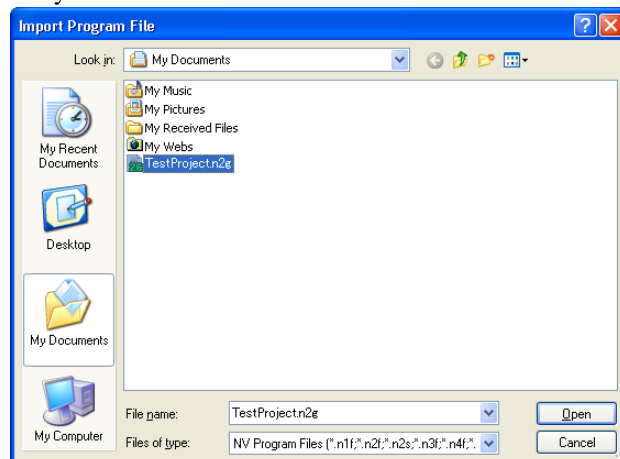
1. Select a system configuration folder in System Manager, and click the right mouse button.
  - A context menu will open.



2. Click **Import Program File**.
  - The Import Program File dialog box will open.
3. Click  to select File Type.
  - Select “NV Program Files (\*.n1f;\*.n2f;\*.n2s;\*.n3f;\*.n4f;\*.n2g)” for this example.
  - ❖ To import a WindLDR program file for a PLC component, select “WindLDR Program Files (\*.pjw)”. To import any file other than the above, select “All Files (\*.\*)”.



4. Select the program file to be registered and click on Open.
  - In this example, “Test Project.n2g” in the “My Documents” folder is selected.
  - The selected program file will be imported into the system configuration window.

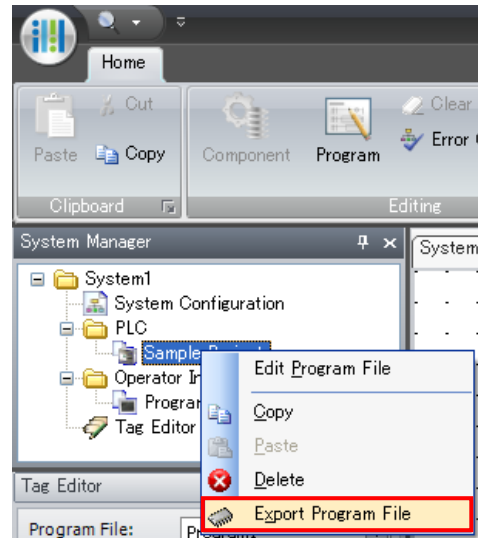


## 4-5 Export Program Files

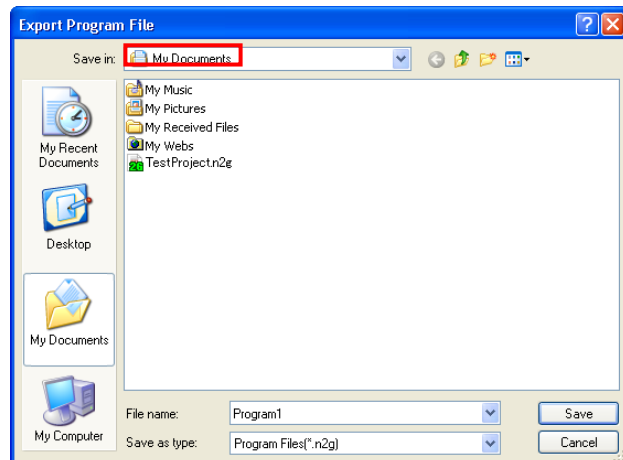
In this section, you will export a program file.

A program file can be edited separately in WindO/I-NV2 or WindLDR, independent from WindCFG after being exported.

1. Select the program file to be exported from System Manager, and click the right mouse button.
  - A context menu will open.



2. Click **Export Program File**.
  - The Export Program File dialog box will open.
3. Select the folder where the file is to be saved to.
  - In this example, select "My Documents".

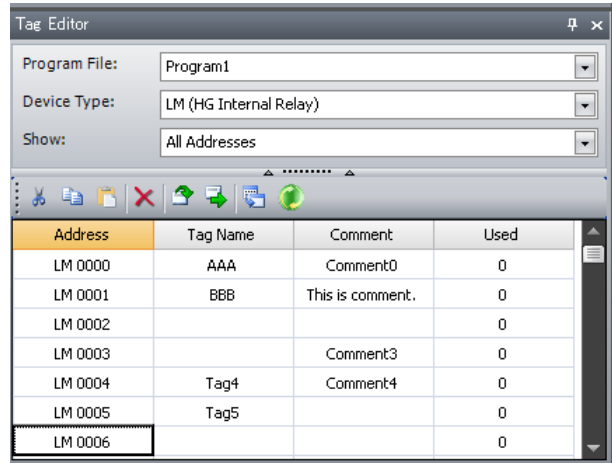


4. Click **Save**.
  - The program file will be exported.

## 5 Tag Editor

### 5-1 Overview

Tag Editor displays a list of device addresses that can be used for program files of a PLC and an Operator Interface registered in the system configuration. In addition, you can set tag names and comment information. If a program file is intended for WindLDR or WindO/I-NV2, preset tag names and comments can be shared between these applications.

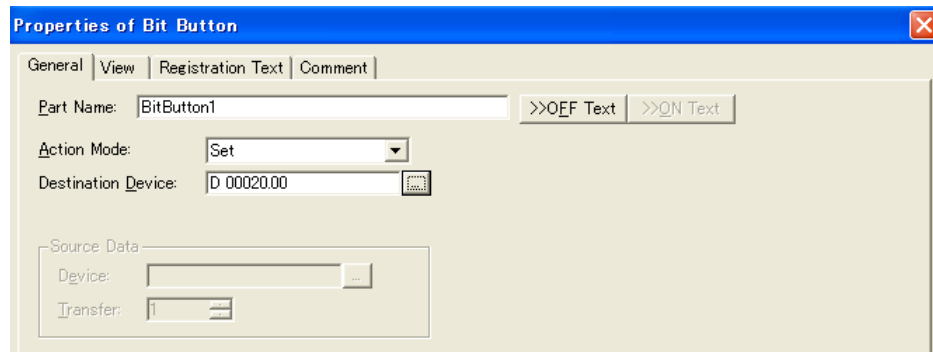


Definitions for “Device Address”, “Tag Name” and “Comment” are as follows:

#### 1. Device Address

Memory for storing Operator Interface or PLC values by bit or word.

Device addresses are used for Operator Interface part objects and PLC instruction sets.



Device addresses are defined and displayed in Tag Editor.

#### 2. Tag Name

Pre-defined device addresses that can be renamed.

The tag names are used for Operator Interface part objects and PLC instruction sets.

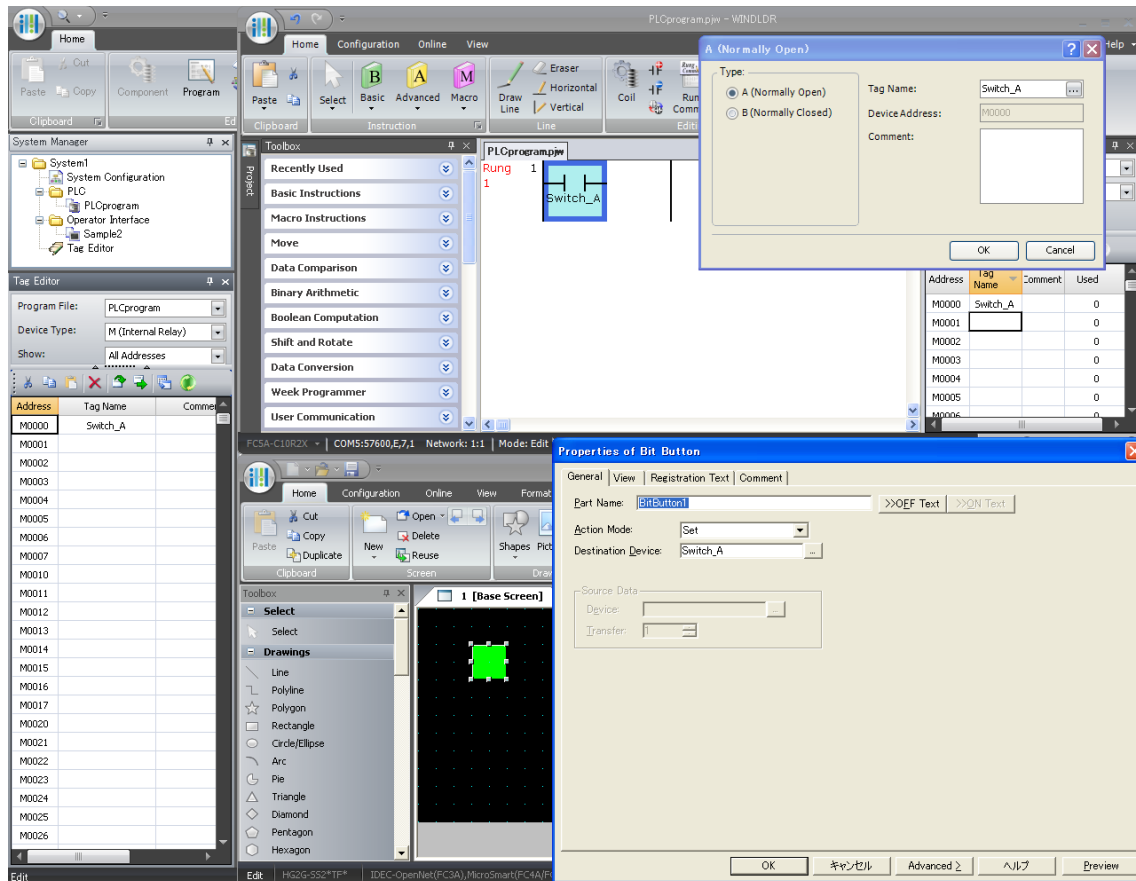
When entering tag names, note the following limitations:

- 20 single-byte (10 double-byte) characters maximum.
- If you share the tag information with different languages, use single byte characters only.
- Each assignment number corresponds to one tag.
- Duplicated tag names cannot be set.
- Control characters, spaces, “\$”, “#”, “/”, “+”, “-”, and “\*” cannot be used.
- A number cannot be used for the first character.

### 3. Comment

As an option, you can add a description (for your own reference), for the pre-defined device addresses or tag names. You can specify a comment using a maximum of 255 bytes in UTF-8 (about 255 single-byte (80 double-byte) characters).

## 5-2 Sharing Tags & Comments



As shown in the above example, if you change a tag name, for example, from “AAA” to “CCC” in the Tag Editor, the change will automatically be reflected in the corresponding tag name preset in WindLDR and WindO/I-NV2.

Tag Editor can also be launched on WindLDR or WindO/I-NV2.



### 5-3 Edit Functions in Tag Editor

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Tag Editor supports the following functions:


- **Cut/Copy/Paste**  
A tag and comment selected in Tag Editor can be cut, copied, and pasted to other device addresses, or pasted into Microsoft Excel. If a device address is selected together with a tag and comment, the device address is also copied. In the same manner, a character string copied with Microsoft Excel can be pasted into Tag Editor.
- **Delete**  
Deletes a tag name and comment selected in Tag Editor.
- **Find**  
Searches for a character string preset in Tag Editor.
- **Export / Import**  
Exports information preset in Tag Editor in either text format (tab-delimited), or in CSV file format (comma-delimited or semicolon-delimited).  
Information is exported in this order: Device Address – Tag Name – Comment.  
Export from an older version of WindLDR is also possible. In this case, the order of export information is Tag Name – Device Address – Comment.
- **Show or hide Tag Name and Comment columns**  
You can show or hide Tag Name and Comment columns by directly doing a right-click on the list of Tag Editor, and then select Tag Name or Comment.

### 5-4 Display “Used” Column Cross Reference

---

A “used” count is displayed for device addresses used in WindLDR and WindO/I-NV2 program files. Depending on the software application, the background color of each cell varies as follows:

Used for WindLDR only:      Green  
Used for WindO/I-NV2 only:    Light blue  
Used for both applications:    Yellow

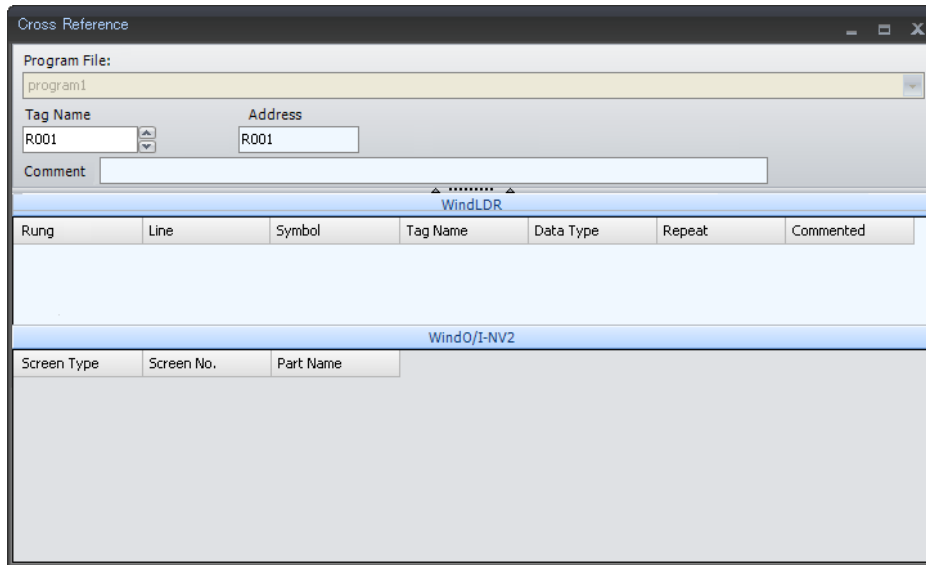
Click  to update the display of USED.

## 5-5 Cross Reference


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To show Cross Reference, do one of the following.

- Double-click a cell of **Used** column in the Tag Editor.
- Right-click a cell in the Tag Editor and then click **Cross Reference** on the shortcut menu.
- On the **Home** tab, in the **Workspace** group, click **Cross Reference icon**.



Cross Reference provides you with the details of the exact location of the device address used in WindLDR or WindO/I-NV2.

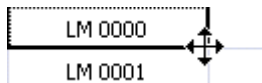
Click  to update the display of Cross Reference.

## 5-6 Device setting by Drag & Drop

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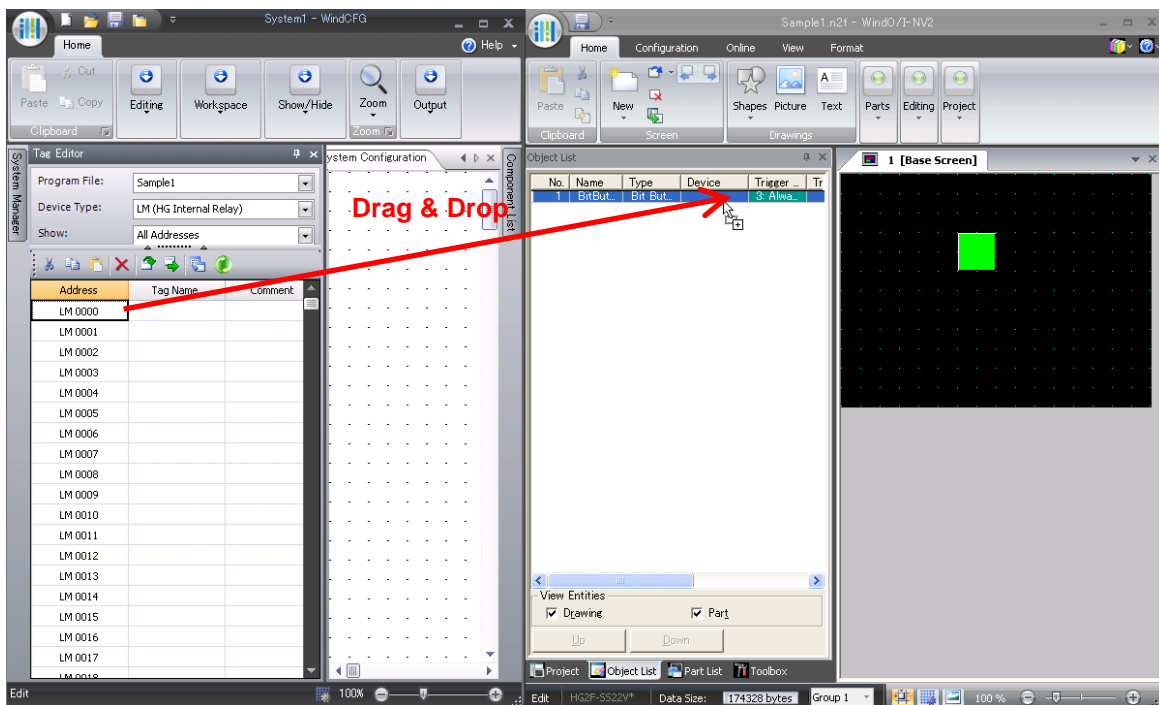
You can set device by drag & drop.  
Using method is shown below.

1. Click Address cell or Tag Name cell at Tag Editor.
2. Move the cursor to edge of cell. Cursor is changed to cross cursor.

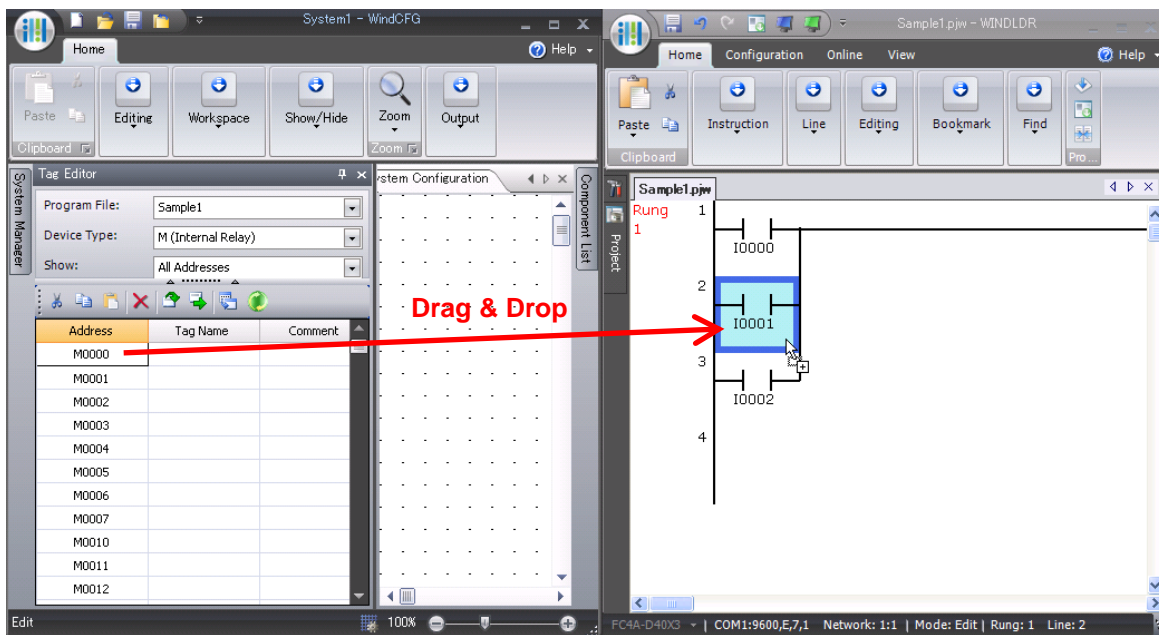


3. In the case of WindO/I-NV2, device is set after drag & drop to Device or Trigger condition on Object list. In the case of WindLDR, device is set after drag & drop to symbol.

## WindO/I-NV2



## WindLDR

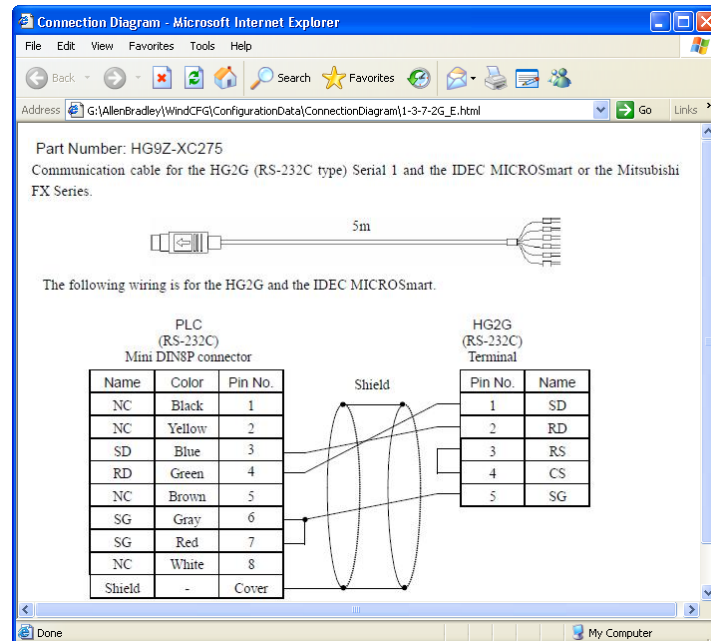


## 6 Other Functions

### 6-1 Display Cable Wiring Diagram

You can display a cable wiring diagram.

1. By clicking on the cable, the cable wiring diagram will be displayed.
2. Click **System**, click **Show Connection Diagram** on Ribbon control.
  - The wiring diagram will appear.



If the combination of components connected with cables is not correct, an error message will appear.

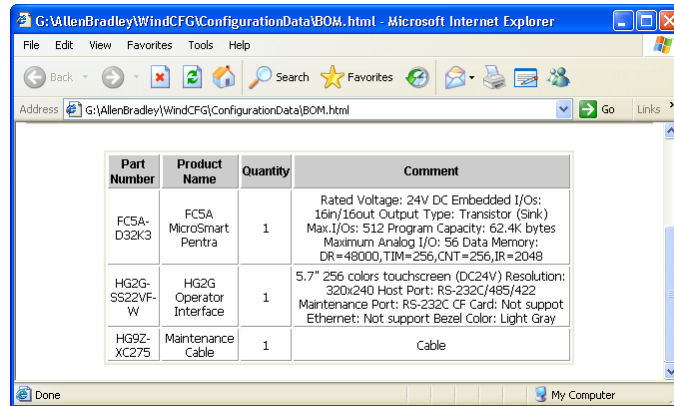
## 6-2 Display BOM (Bill of Material)

You can display a list of components used for system configuration.

A BOM (Bill of Material) can be exported or saved as an HTML, CSV, or text file.

- **Export a BOM as an HTML file**

To open a web browser and display the BOM (Bill of Material), click **Output**, click **Part List**, and then click **Preview** on the Ribbon control.



Part Number	Product Name	Quantity	Comment
FC5A-D32K3	FC5A MicroSmart Pentra	1	Rated Voltage: 24V DC Embedded I/Os: 16in/16out Output Type: Transistor (Sink) Max.I/Os: 512 Program Capacity: 62.4K bytes Maximum Analog I/O: 56 Data Memory: DR=48000,TIM=256,CNT=256,IR=2048
HG2G-SS22VF-W	HG2G Operator Interface	1	5.7" 256 colors touchscreen (DC24V) Resolution: 320x240 Host Port: RS-232C/485/422 Maintenance Port: RS-232C CF Card: Not support Ethernet: Not support Bezel Color: Light Gray
HG9Z-XC275	Maintenance Cable	1	Cable

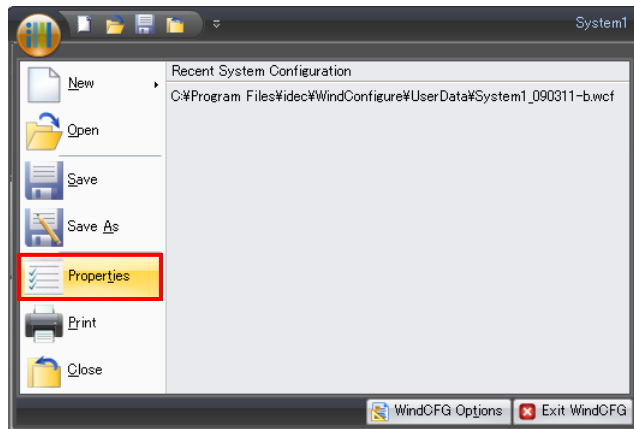
- **Export a BOM as a text/CSV file**

Click **Output**, click **Part List**, click **Export** on Ribbon control (a Save As dialog box appears), select the appropriate file type, and then click **Save**.

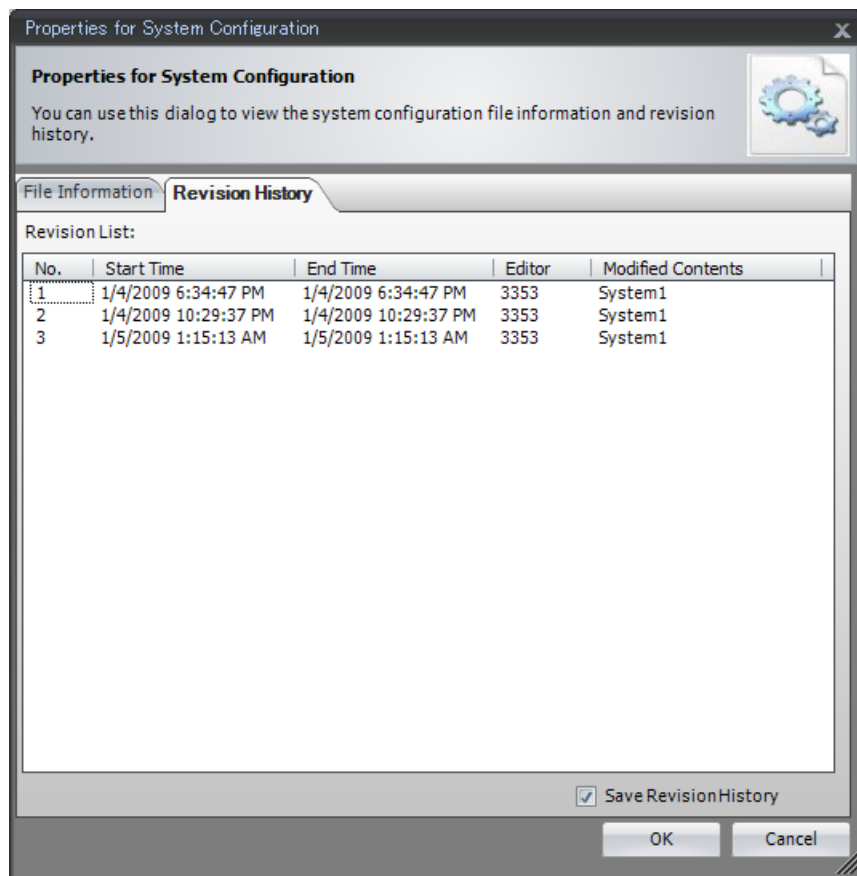
## 6-3 Record Revision History

You can view a record of the system configuration file modifications.

1. Click **Properties** in the Application Button.
  - Properties for System Configuration dialog box will open.



2. Click **Revision History** tab.
  - The Revision History window will open.

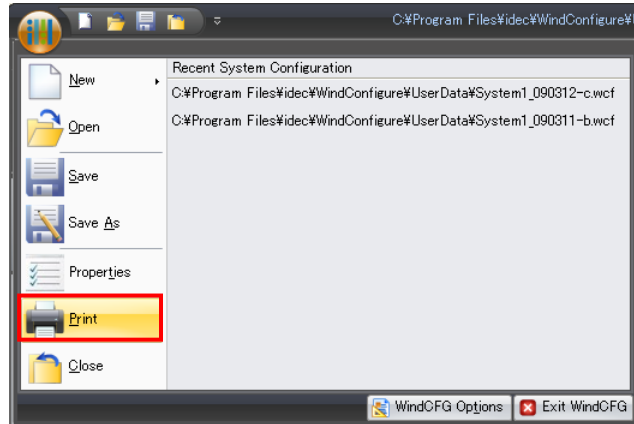


## 6-4 Printing & RTF Output Record Revision History

You can print preset system configuration data. In addition, this data can be output to an RTF file and can be used for your own documentation. Microsoft Word 2002 or later version is required to output RTF file.

1. Click **Print** in the Application Button.

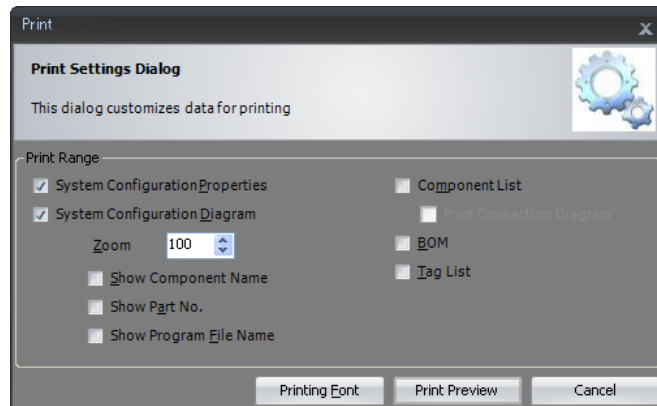
- The Print dialog box will open.



2. Set **Print Range**.

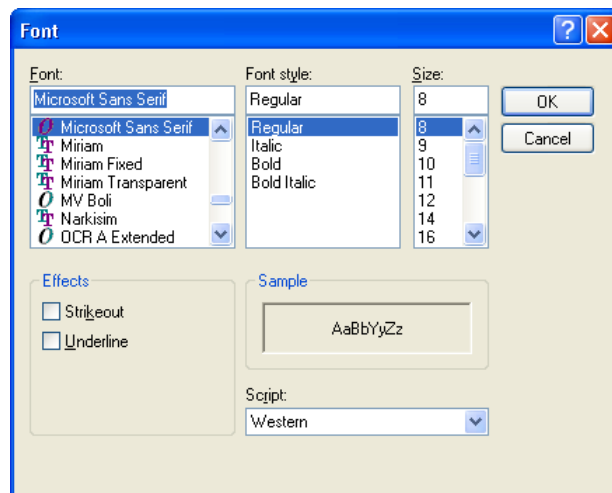
For print range, you can select the following items:

- System Configuration Properties  
Prints data specified in File > Properties.
- System Configuration  
Prints the system configuration window layout. Selecting this option enables configuration zoom scale setting and type number show/hide setting.
- Component List  
Prints a list of components used for system components.
- BOM (Bill of Material)  
Prints a BOM (Bill of Material) for the components used for system configuration.
- Tag List  
Prints tag and comment information specific to this system.

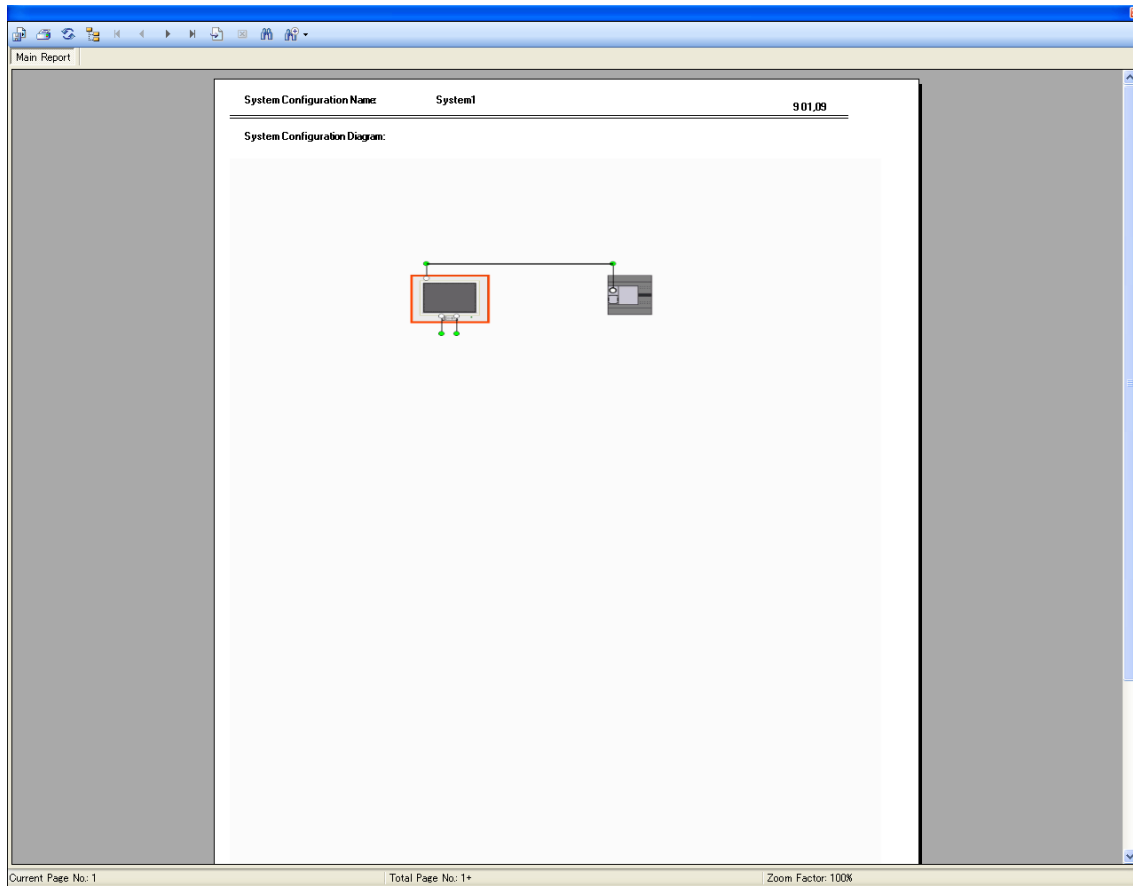


3. Specify **Font**.

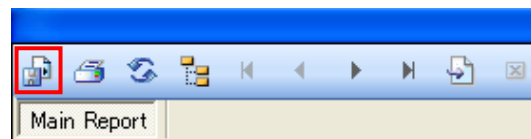
- Clicking the **Printing Font** button allows you to select the font for printing.



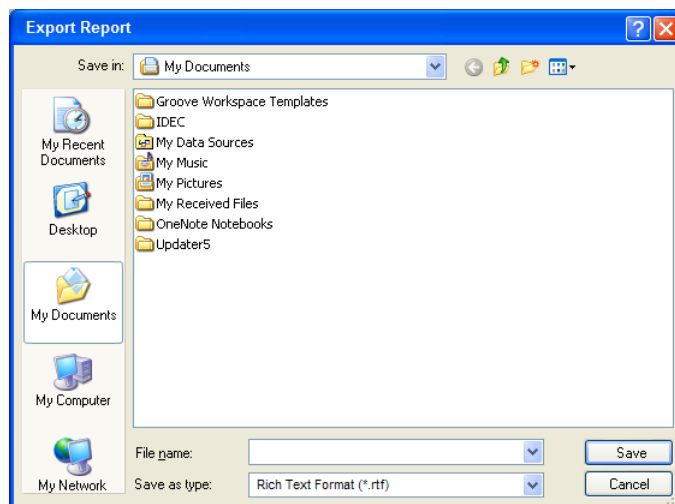
4. Click **Print Preview** on the **Print** dialog box.
  - The data specified in the Print Settings dialog box can be previewed.



5. Click the **Export Report** icon.
  - The Export Report dialog box will open.

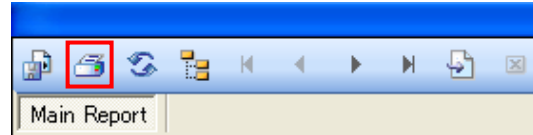


6. Select the folder where the file is to be saved. Select "Rich Text Format (\*.rtf)" as the File Type and enter the file name.
  - The Print image will be output as a RTF file.





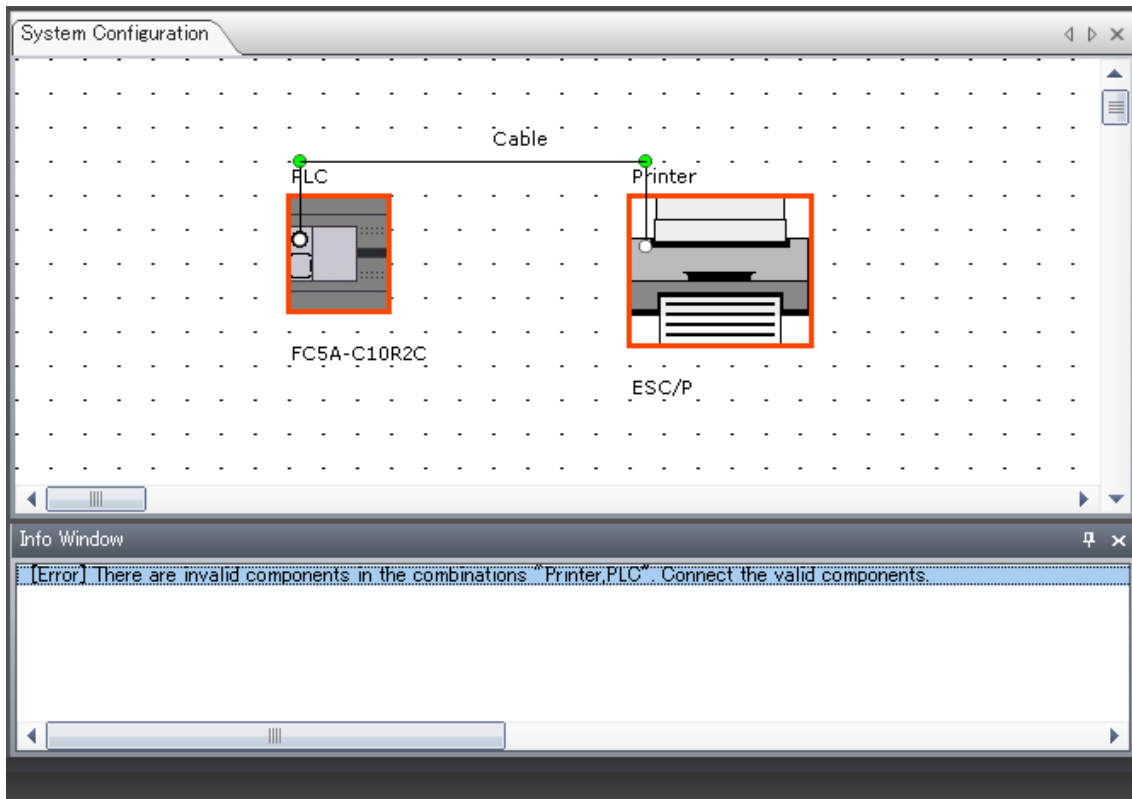
7. Click the **Print** icon if you want to print.



## 6-5 Error Check Function

The Error Check function will check for errors created on the system configuration window.

- **Click Edit and then click Error Check on Ribbon control.**  
The error check function is performed on the project created on the system configuration window. If there are any errors, the details will be displayed on the Info Window.
- **Double-click on the error listed in the Info Window.**  
The component with the error will be highlighted or selected. Make necessary changes to the settings according to the details displayed in the Info Window.




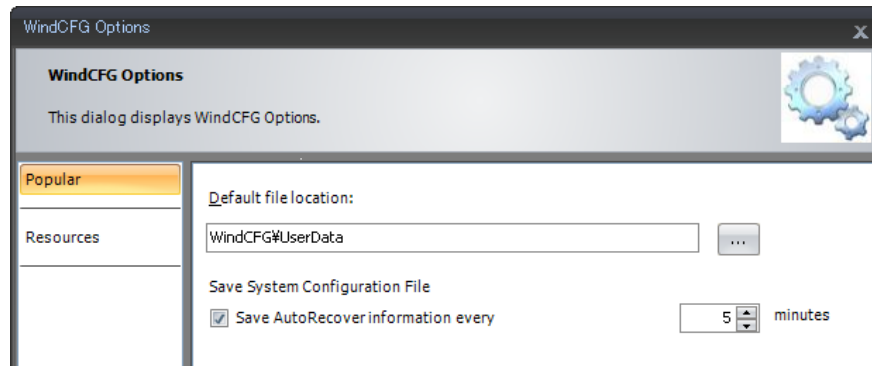
Error check function will automatically execute after the following actions:

- Show the Cable Connection wiring diagram.
- Show the BOM (Bill of Material).
- Select Edit a Program by using WindLDR or WindO/I-NV2.
- Save a system configuration.

## 6-6 Automatically Save System Configuration Files

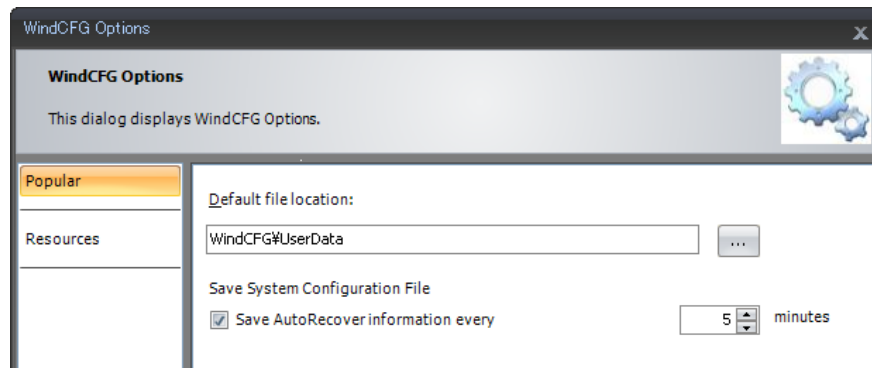
AutoRecover option can help you avoid losing work. If you enable this option, your system configuration file is automatically saved as often as you want. Therefore, the file can be recovered if WindCFG closes unexpectedly, for example, during a power failure.

To configure the AutoRecover feature in the **Popular** settings in WindCFG Options, click **Application Button** , click **WindCFG Options**, and then click **Popular**.



When you restart WindCFG, it automatically opens the window listing the available files that WindCFG recovered.

Click the name of the file that you want to recover, and then click **Open** button.

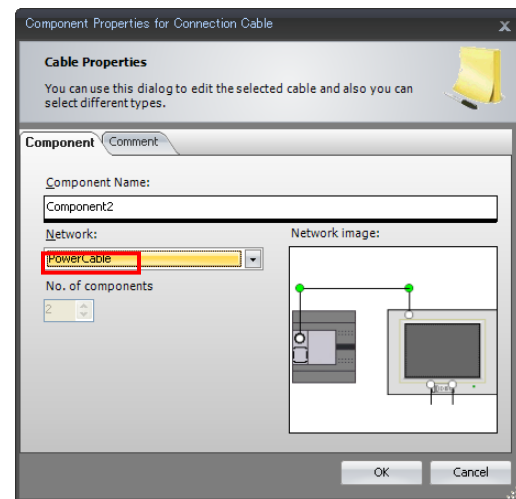
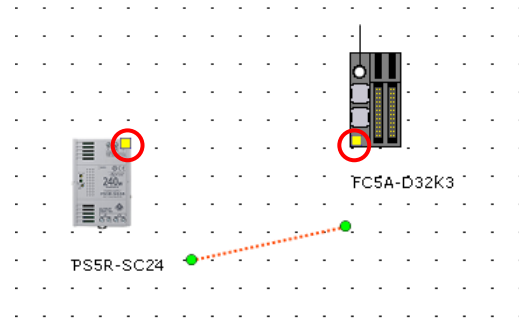


## 6-7 Calculating Power Consumption

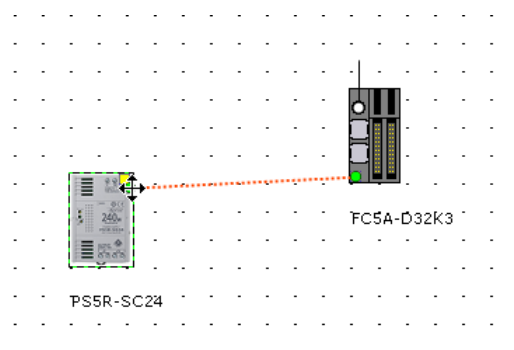
When a power supply is used in the System Configuration window, you can check the total amount of power consumed by components connected to the power supply.

- **Setting a power supply**

- 1) Select **PLC** from the component list, and drag and drop this component on to the system configuration window.
- 2) Select **Power Supply** from the component list, and drag and drop this component on to the system configuration window.
- 3) Select **Cable** from the component list, and drag and drop this cable into the system configuration window.
- 4) Double-click the cable. The Cable Properties dialog box will open.
- 5) Select “Power Cable” under Network.



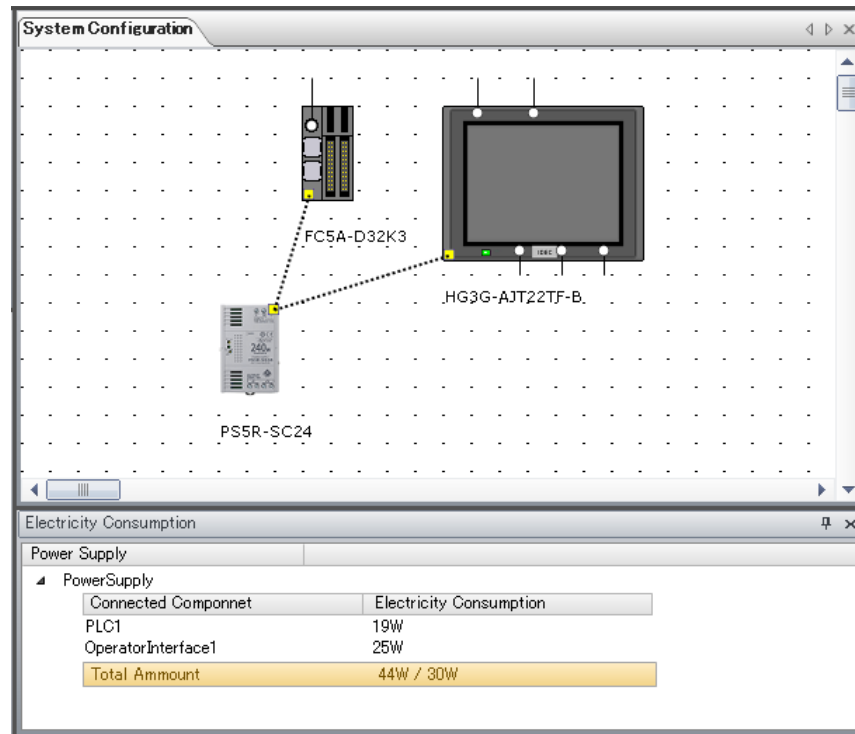
- 6) Select the edge of the cable and drag and drop it to the power supply port of the PLC.
- 7) Select the other edge of the same cable and drag and drop it to the port of the power supply.



- **Checking the total amount of power consumed:**

On the **Home** tab, in the **Editing** group, click **Power Consumed Check icon**.

The total amount of power consumed by components connected to the power supply is displayed in the Info Window.



Note:

In the situations listed below, a warning or error message is displayed.

- The power supply is missing in the System Configuration window.
- The total power consumption exceeds the power supply's output capacity.
- An inappropriate component is connected to the power supply.

By clicking the Error Check, the details of errors are displayed in the Info Window.