



## **General Precautions**

The user must operate each product according to the performance specifications described in the operation manuals.

Before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems, machines and equipment that may have a serious influence on lives and property if used improperly, consult your OMRON representative.

Make sure that the ratings and performance characteristic of the product are sufficient for the systems, machines, and equipment, and be sure to provide the systems, machines, and equipment with double safety mechanisms.

This manual provides information for using the programmable terminal model NS12. Be sure to read this manual before attempting to use the software and keep this manual close at hand for reference during operation.

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*Section 1*  
*Operation Flow*

**GX-Designer**

# Operation Flow

## CX-Designer

Installing CX-Designer to a personal computer



Starting up the CX-Designer

Creating a screen

Setting Project Properties

Entering project title and labels

System Setting

Allocate system memory, set communication port etc...

Creating a Screen Data

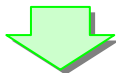
Creating lamp, touch switch, numeral display and graph etc...

Test/ Validation

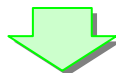
Checking errors on the CX-Designer



Transferring the screen data to NS Hardware



Start Operation



Maintenance and Inspection

## NS8-V1

Mount NS on the control panel



Refer to NS Setup Manual

Connecting power supply/ communication cable

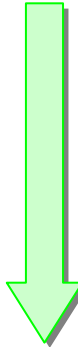


Refer to NS Setup Manual

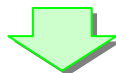
Power ON



System Menu Setting



Start Operation



Maintenance and Inspection

## Host side (PLC)

Setting communication port

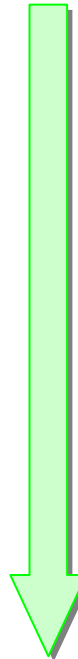


Refer to NS Setup Manual

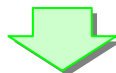
Creating Ladder program



Power ON



Start Operation



Maintenance and Inspection

# *Section 2*

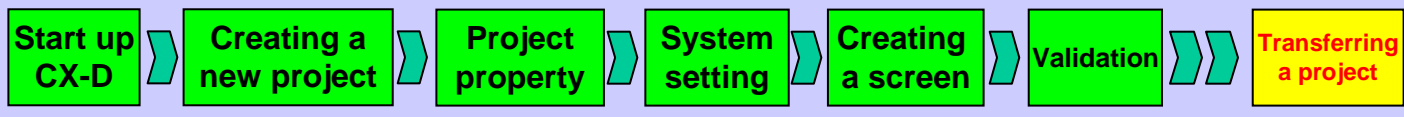
## *CX-Designer*

***Creating simple screens using the CX-Designer (CX-D)***

\*A screen image depends on a CX-Designer system version; when you use a different system version from the one used in this manual, the screen image may not be the same.

\*Certain settings depend on the hardware that you use. In this manual, NS8-V1 is used to create screens.

CX-Designer



# 1. Preparations and settings

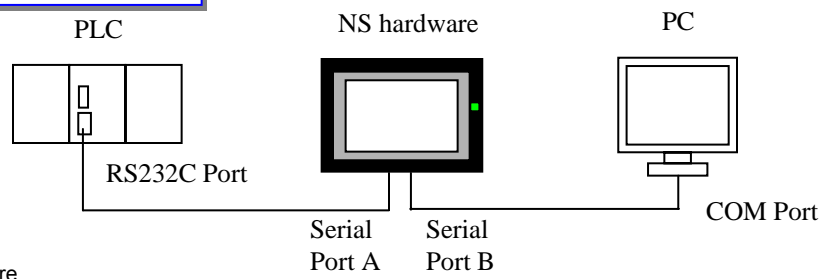
## Introduction

This manual describes how to use the CX-Designer and its functions with a visual assistance in creating sample screens.

## Necessary Equipment

- | Item   | Model                                     |
|--|---|
| - CX-Designer                                  | NS-CXDC1-V[]                              |
| - NS Hardware                                  | - NS8-TV1[][(B)-V1                        |
| - PLC  | - CS Series, CJ Series                    |
| - NS Hardware – PC Serial communication cable  | - XW2Z-S002                               |
| - NS Hardware – PLC Serial communication cable | - XW2Z-200T                               |
| - PC   | - Widows PC on which CX-Designer performs |

## Configuration & Communication Settings



- NS Hardware**
- Serial Port A NT Link (1:N), No. of units: 0, Communication Speed: High-speed
  - Serial Port B Setting is not necessary
- PLC**
- Host Link Port Communication Speed: High-speed NT Link, Communication Mode: NT Link (1:N), NT Link Max. No. of units: 1

## Allocation Address

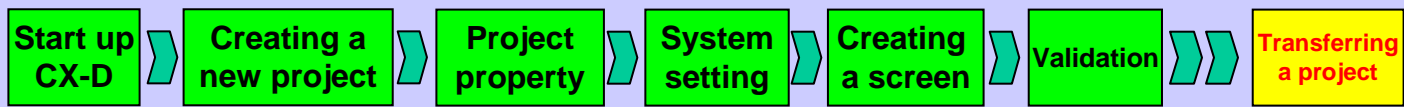
The following PLC allocation addresses are used for sample screens shown in this manual.

Allocation Address	Description
00000.00	Power 1 Running / Stopped
00000.01	Power 2 Running / Stopped
00000.02	Power 3 Running / Stopped
00000.03	Power 4 Running / Stopped
00000.04	Power 5 Running / Stopped
00000.05	Power 6 Running / Stopped

Allocation Address	Description
DM100	Present value

Allocation Address	Description
00001.00	Alarm 1 Occurred / Released
00001.01	Alarm 2 Occurred / Released
00001.02	Alarm 3 Occurred / Released
00001.03	Alarm 4 Occurred / Released
00001.04	Alarm 5 Occurred / Released
00001.05	Alarm 6 Occurred / Released
00002.00	Alarm 7 Occurred / Released
00002.01	Alarm 8 Occurred / Released
00002.02	Alarm 9 Occurred / Released
00002.03	Alarm 10 Occurred / Released
00002.04	Alarm 11 Occurred / Released
00002.05	Alarm 12 Occurred / Released



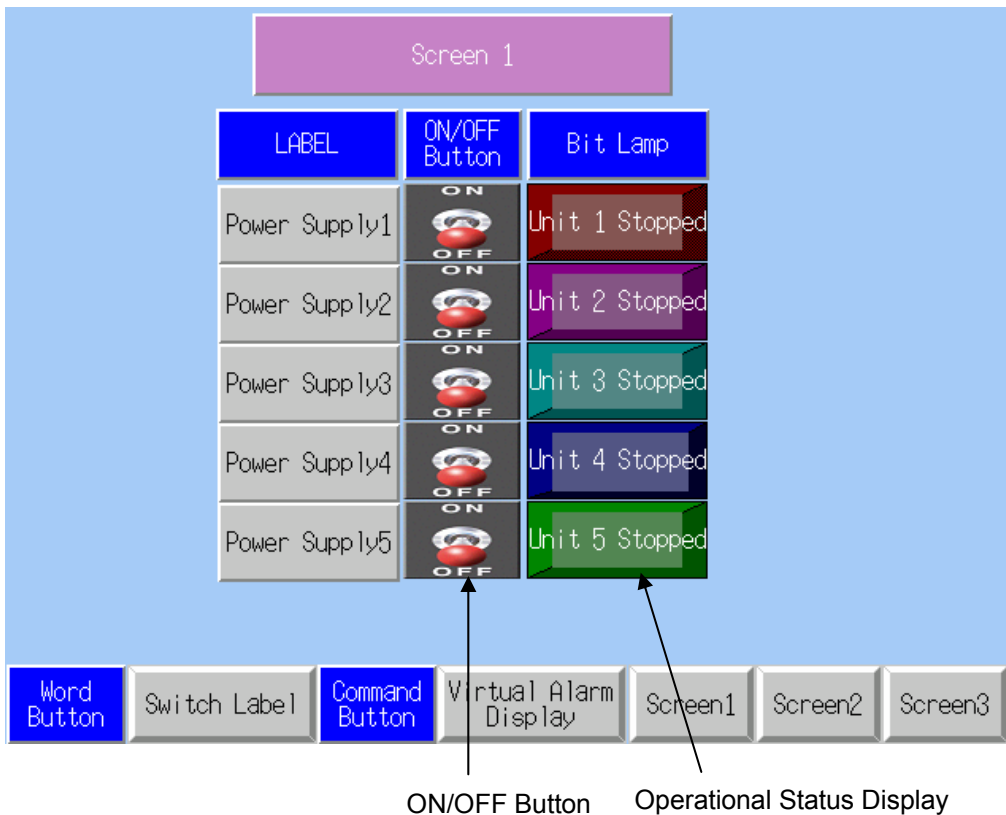


Sample Screen

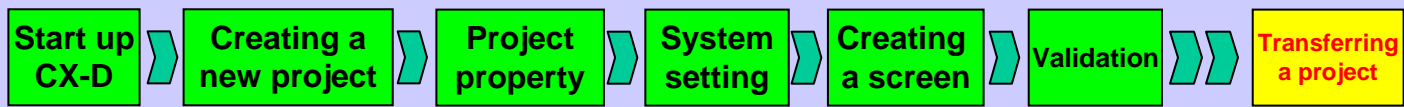
Create 5 screens using the CX-Designer.  
 All screens are designed to display labels in two languages (English/Dutch) with “Switch Label” function.

Screen 1

Here, you will create a screen that turns ON/OFF specified addresses of the PLC. On the screen 1, lamps (bit lamp) are lit/out according to the status of bits allocated to the PLC. The screen below illustrates an example of a touch panel screen used to operate a machinery.

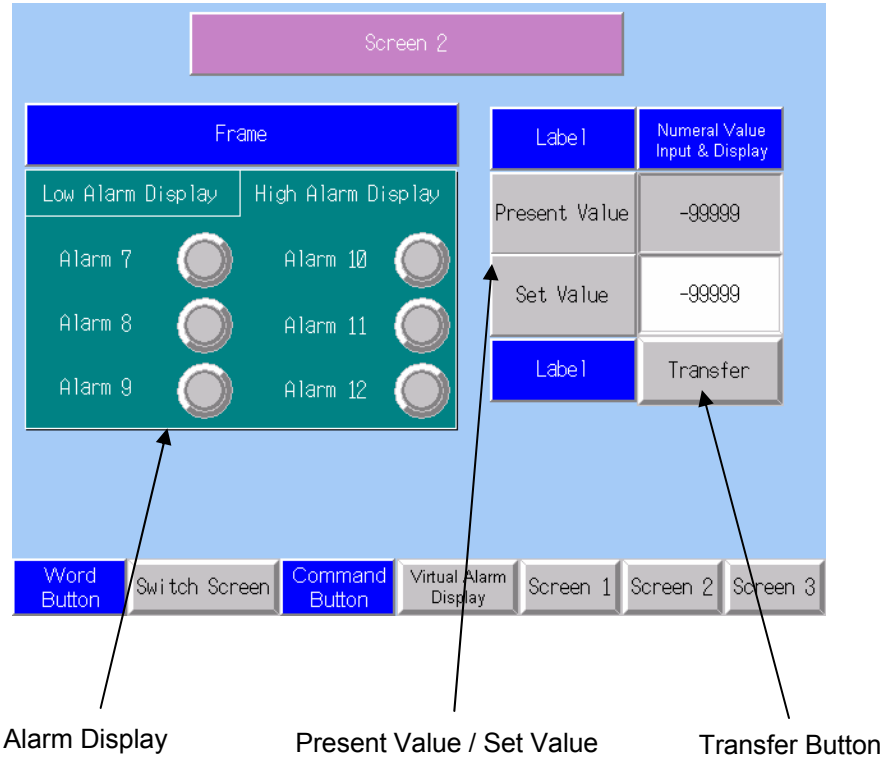


1. ON/OFF Button  
Press the button to switch ON/OFF status.
2. Operational Status Display  
“RUN/STOP” lamp is lit/out in linked with the status of an ON/OFF button.

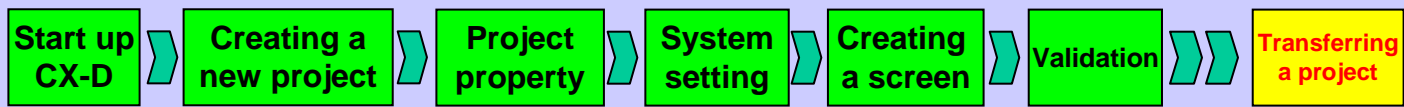


Screen 2

On Screen 2, you will create a screen with 2 functions: one is a frame where more than one small screens are displayed by switching a tab; the other is to write values to memories in the PLC.



1. Alarm Display  
Is used to switch a Low Alarm Display and a High Alarm Display by pressing the tab of the Frame function.  
  
Alarm lamps are respectively allocated to bits of the PLC as shown in the table on page 4.
2. Present Value / Set Value  
An object that displays the numeral value of an address is used to show the content of the PLC memory as a present value.
3. Set Value/Transfer Button  
Numeral Display & Input object lets the user to enter numeral values. In this manual, you will create a screen where values entered by the user are saved in the NS's internal memory area and be transferred to the PLC memory areas by pressing the Transfer button.



Screen 3

NS has a function that shows the ON/OFF status of a specified bit as an alarm history. On screen 3, you will generate a virtual alarm on the pop-up screen (described later) and display its history.

Screen 3

Alarm/Event Summary & History

2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
* 2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
* 2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
* 2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
* 2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
* 2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message
2005/08/30 15:52:15	2005/08/30 15:52:15	Alarm Message

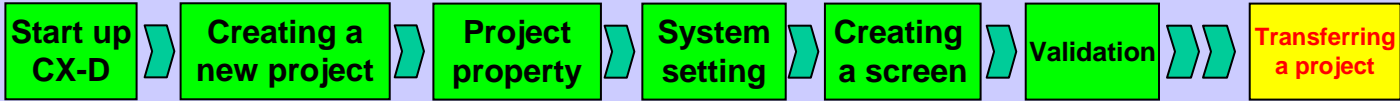
Alarm/Event Display: 2005/08/30 15:53:06 Alarm Sample 1

Word Button | Switch Label | Command Button | Virtual Alarm Display | Screen 1 | Screen 2 | Screen 3

Alarm History (points to history table)

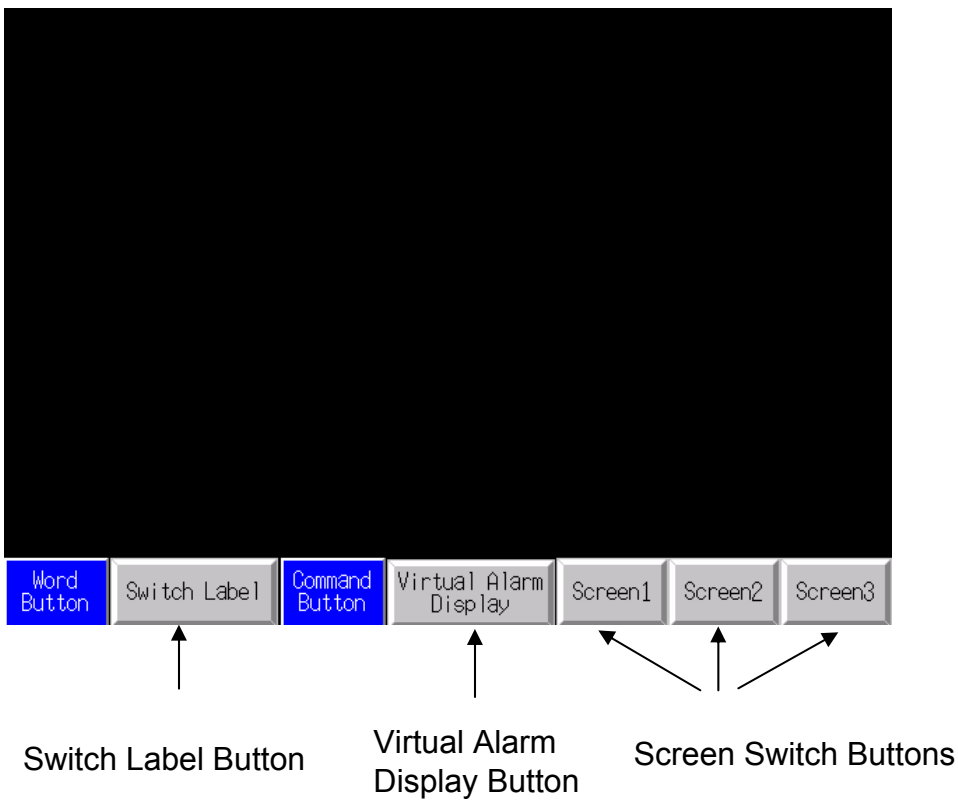
Latest Alarm (points to 'Alarm Sample 1')

1. Alarm History  
Displays a virtual alarm history that was occurred and cancelled on the pop-up screen.
2. Latest Alarm  
Displays the latest virtual alarm that has occurred on the pop-up screen.

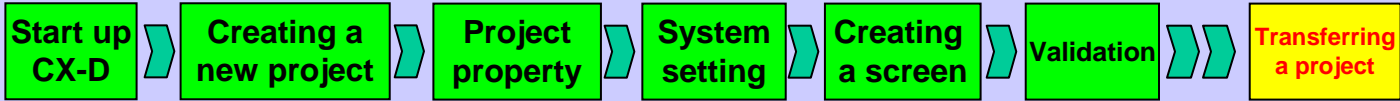


Sheet 1

A sheet is a screen that contains objects commonly used on several screens. In this manual, you will create a sheet with a “Switch Label” function to switch labels between English and Dutch, a function to display a screen (to be described later) for generating a virtual alarm, and a function to switch screens.

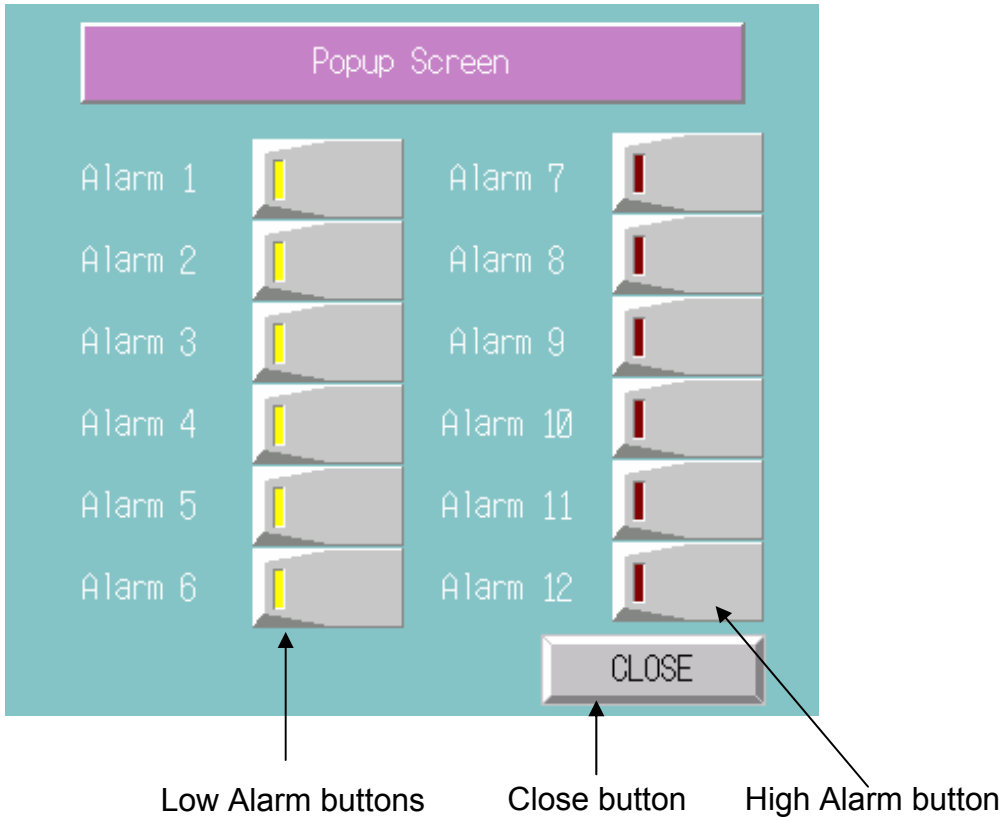


1. Switch Label Button  
Press this button to show a pop-up menu from which you can switch a label in English and Dutch.
2. Virtual Alarm Display Button  
Press this button to display the pop-up screen (to be described later) with a Virtual Alarm Display button.
3. Screen Switch Button  
Press a button to display the screen number (1 to 3) shown on the button .

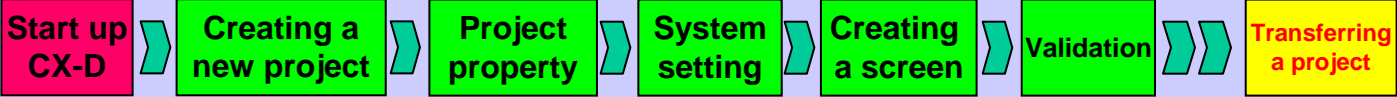


Pop-up Screen

A pop-up screen is a small screen that can be displayed as needed on top of another screen. You will create a pop-up screen that turns ON/OFF the PLC allocation addresses 00001.00 to 0001.05, and 00002.00 to 0002.05 and generate/cancel virtual alarms.

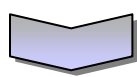
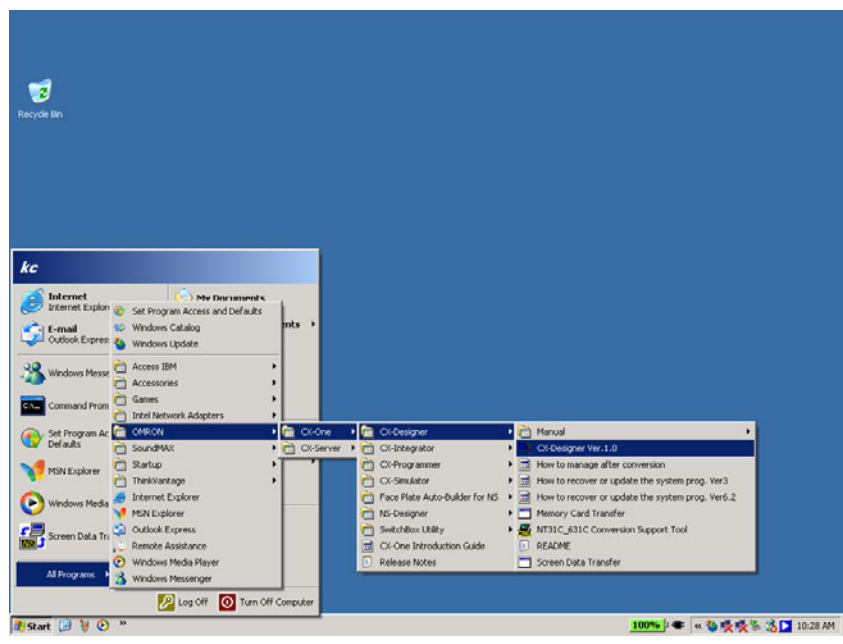


1. Low Alarm button  
Press this button to switch ON/OFF (Occurrence/Recovery).
2. High Alarm button  
Press this button to switch ON/OFF (Occurrence/Recovery).
3. Close button  
Closes the pop-up screen.

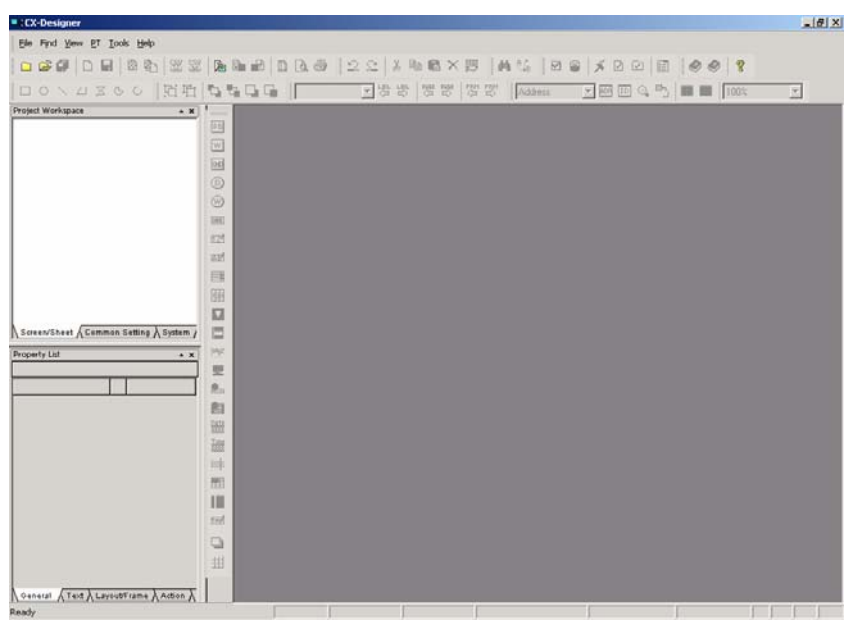


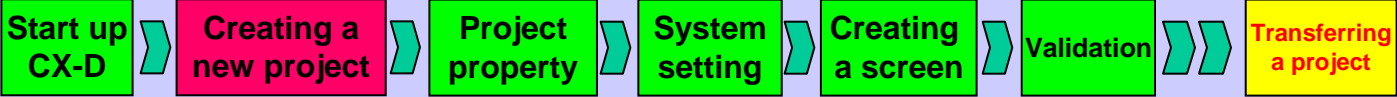
## 2. Starting up the CX-Designer

Select [Start]-[Program]-[Omron]-[CX-One]-[CX-Designer]  
 -[CX-Designer Ver. xx]  
 (CX-Designer Ver. 1.0 is used here.)



When the CX-Designer is started up, the main window will appear.

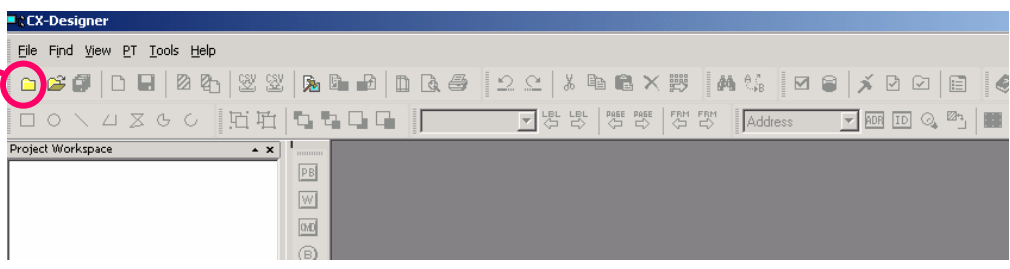




### 3. Creating a new project

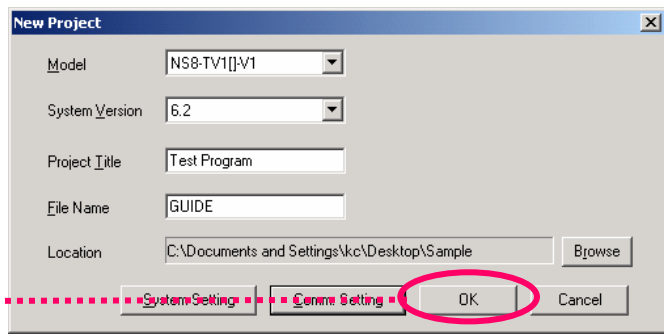
Click [New project] button on the CX-Designer.

Left-click the icon

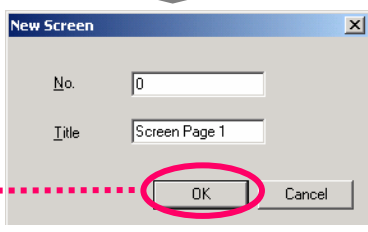
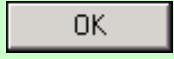


Set as follow:  
 [Model name] NS8-TS1[]-V1  
 [System Version] System Ver.6.2 (\* Note)  
 [Project Title] Enter a title. "Test Program" is entered here.  
 [File Name] Enter a file name. "GUIDE" is entered here.  
 [Location] Specifies a location where the file is saved. The file is saved in [C:\documents and Settings\c\desktop\sample] here.

\* Note the following points when you enter the project name.  
 -A file name can be as long as 42 characters including extension (.IPP).  
 -A file name may use any number or letter, underscore(\_), and dollar mark(\$).  
 If project name is not entered correctly( e.g. using wide size characters etc...) the error occurs when transferring data.



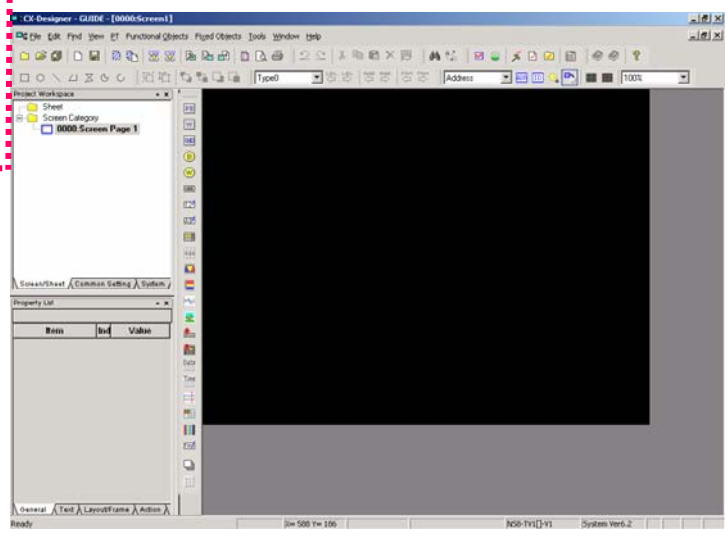
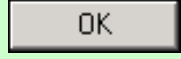
Click



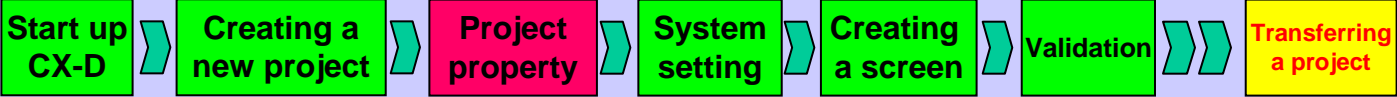
It is now ready to create a screen.

Enter a title name. "Screen 1" is entered here.

Click



\*System Ver.6.2 is used here. Select [System Version] according to yours

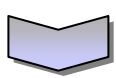
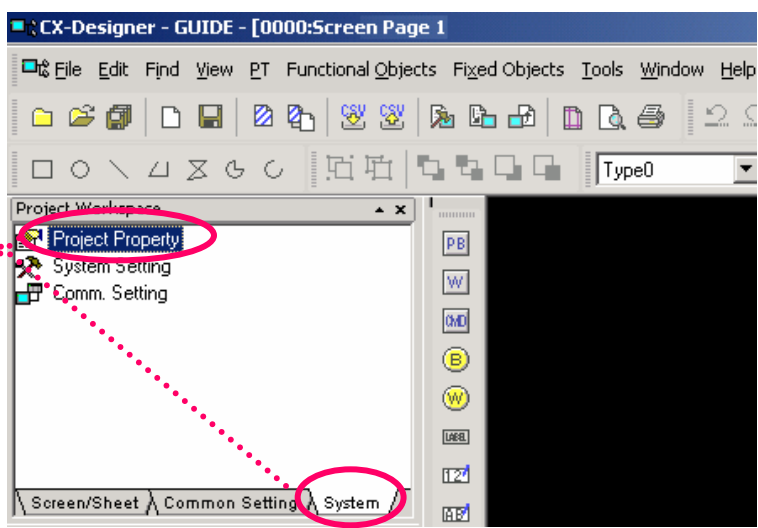


## 4. Setting project properties

**Making settings for a project data.**

In this section, you will make a project that is able to show two language labels – English and Dutch by switching them. Here, it is necessary to set a project property for a label switching function is required.

Click the [System] tab in the project workspace.  
Double-click [Project Property]

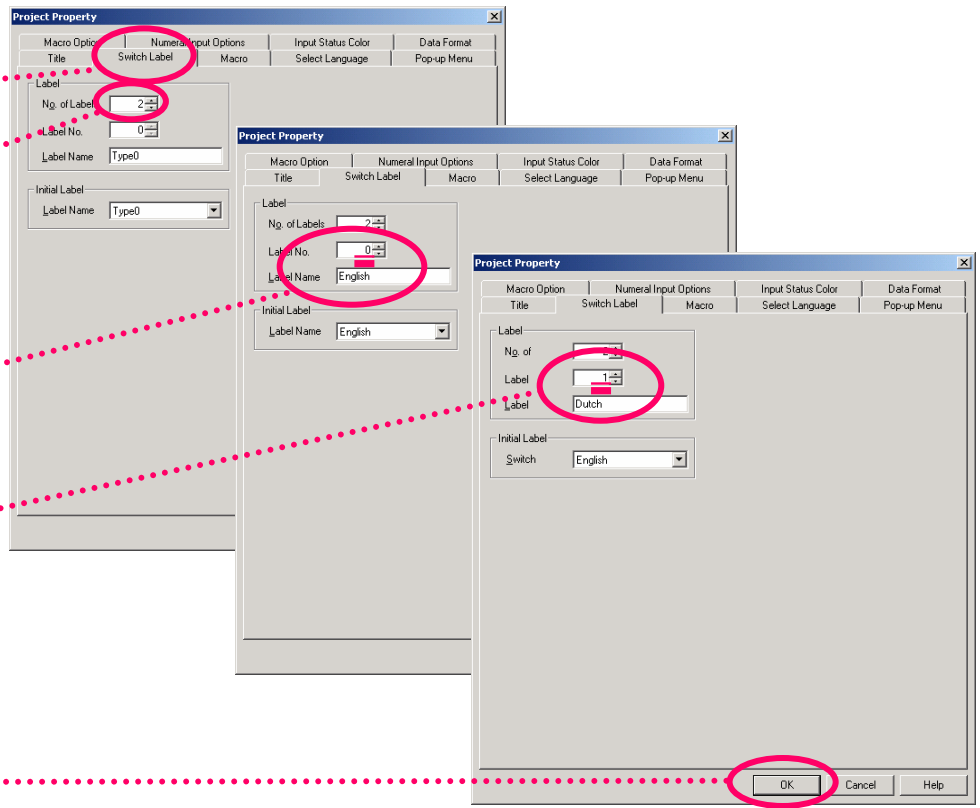


Click the [Switch Label] tab.

Set 2 for No. of Labels.

Set 0 to Label No. and enter English as a label name.

Set 1 to Label No. and enter Dutch as a label name.



Click  
OK

OK Cancel Help



Start up  
CX-D

Creating a  
new project

Project  
property

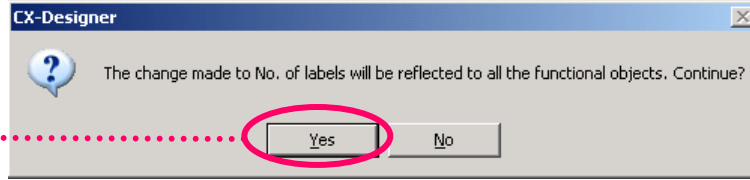
System  
setting

Creating  
a screen

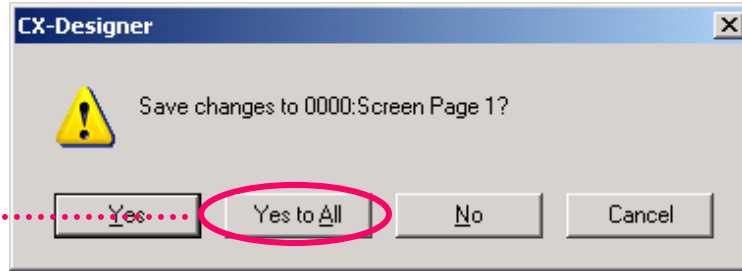
Validation

Transferring  
a project

Click [Yes]



Click [Yes to All]



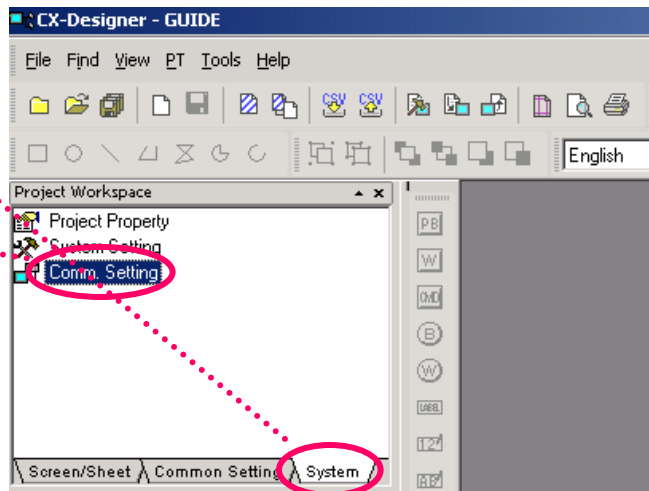


## 5 Communications settings

**Making communications settings for the NS hardware to connect with the PLC. In this manual, you will connect the NS to the PLC thru Serial port A.**

Click [System] in the Project Workspace.

Double-click [Comm. Setting].

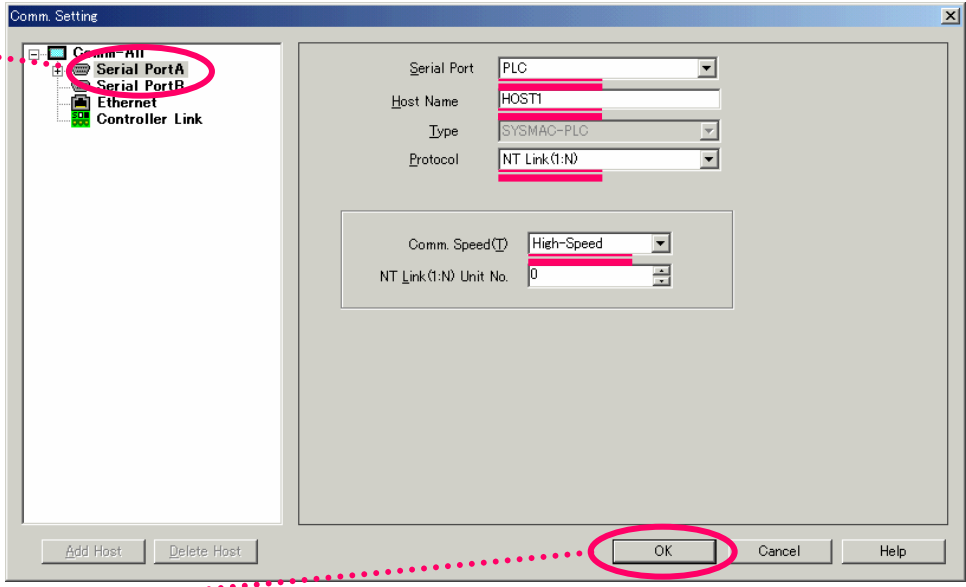


Click [Serial Port A]

Set as follow:

- Serial Port → [PLC]
- Host Name → [HOST1]
- Protocol → [NT Link(1:N)]
- Comm. Speed → [High-speed]

[Comm.-All], [Ethernet], [Controller Link] settings are not required.



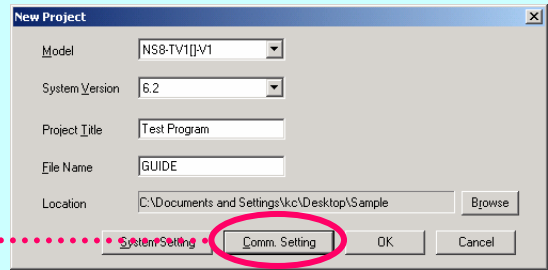
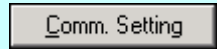
Click



### <Note>

You can make communication settings when creating a new project.

Click [Comm. Setting] in the New Project dialog box as described in 3 "Creating a new project".





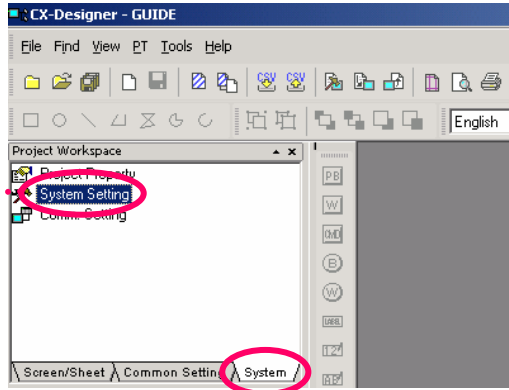
## 6. System settings

**Allocating NS system memory areas to the PLC.**

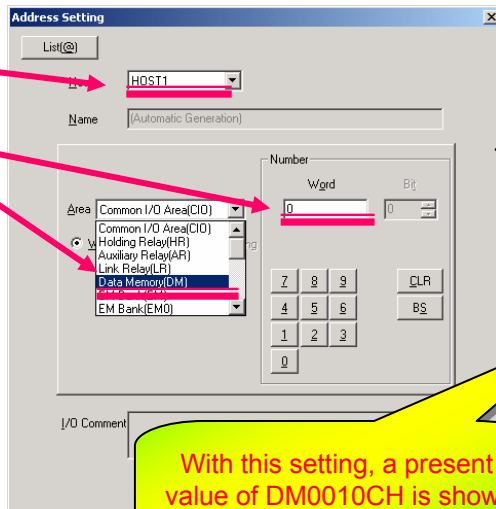
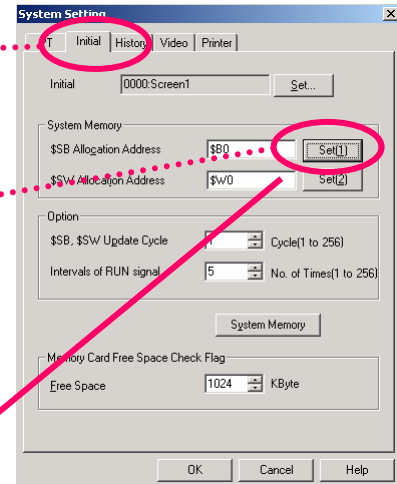
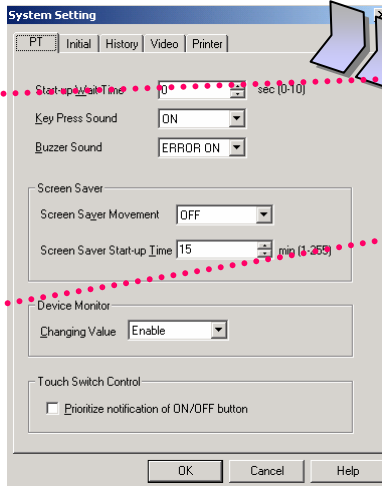
System memory area is memory area that is used to control the NS from the host (PLC) or to notify operation status from the NS to the host. In this manual, you will allocate system memory areas to the PLC.

Click [System]  
In the "Project Workspace".

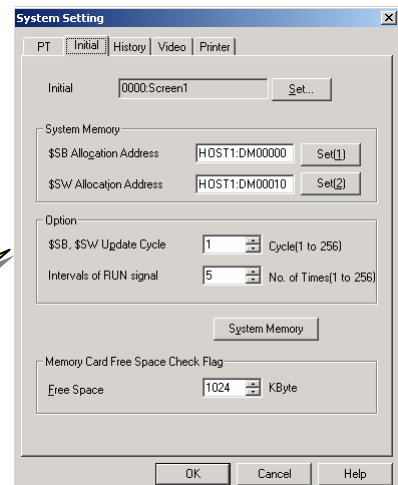
Double-click [System Setting].



Allocate a word to the PLC for controlling screen No.



**Complete**



With this setting, a present value of DM0010CH is shown on the PT.

Set as follow:  
Host name → [HOST 1]  
Word → "0"  
Area Type → [Data Memory (DM)]

Set address in the same way as [Set(1)]

Host name → [HOST 1]  
Word → "10"  
Area Type → [Data Memory (DM)]



Start up  
CX-D

Creating a  
new project

Project  
property

System  
setting

Creating  
a screen

Validation

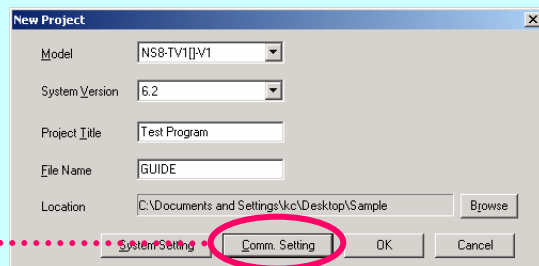
Transferring  
a project

**<Note>**

You can make system settings when creating a new project.

Click [System Setting] in the New Project dialog box as described in 3 "Creating a new project".

System Setting



Start up  
CX-D

Creating a  
new project

Project  
property

System  
setting

Creating  
a screen

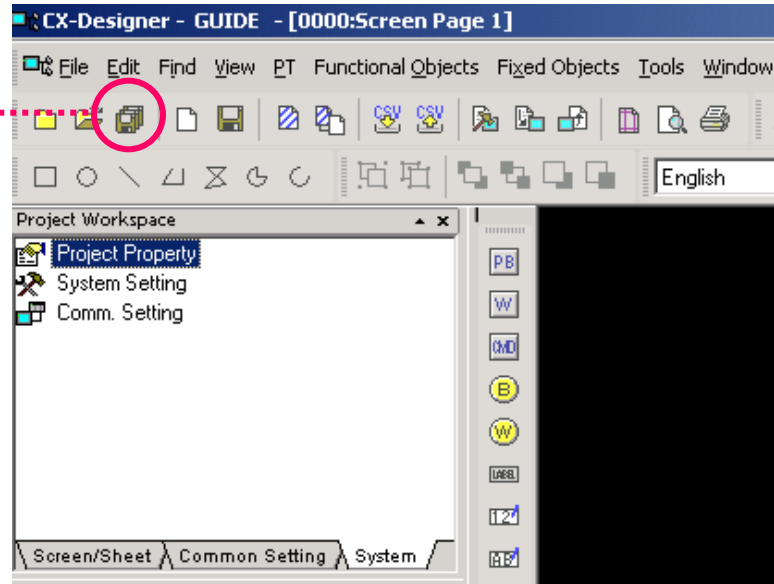
Validation

Transferring  
a project

## 7. Saving a project

Saving a whole project.

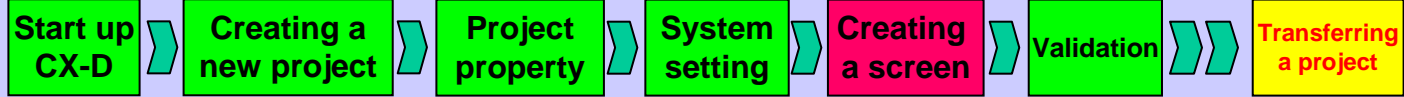
In this manual, you will save the project's system settings and screens/sheets all together.



Click the icon.

### <Note>

We recommend to save projects and screens frequently.



## 8. Screen properties

Making basic settings when creating a new screen.  
In this manual, you will change the screen background color.

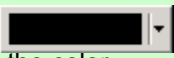
Click the [Screen/Sheet] tab in the project workspace.

Right-click the [0000: Screen Page 1] to display the menu.

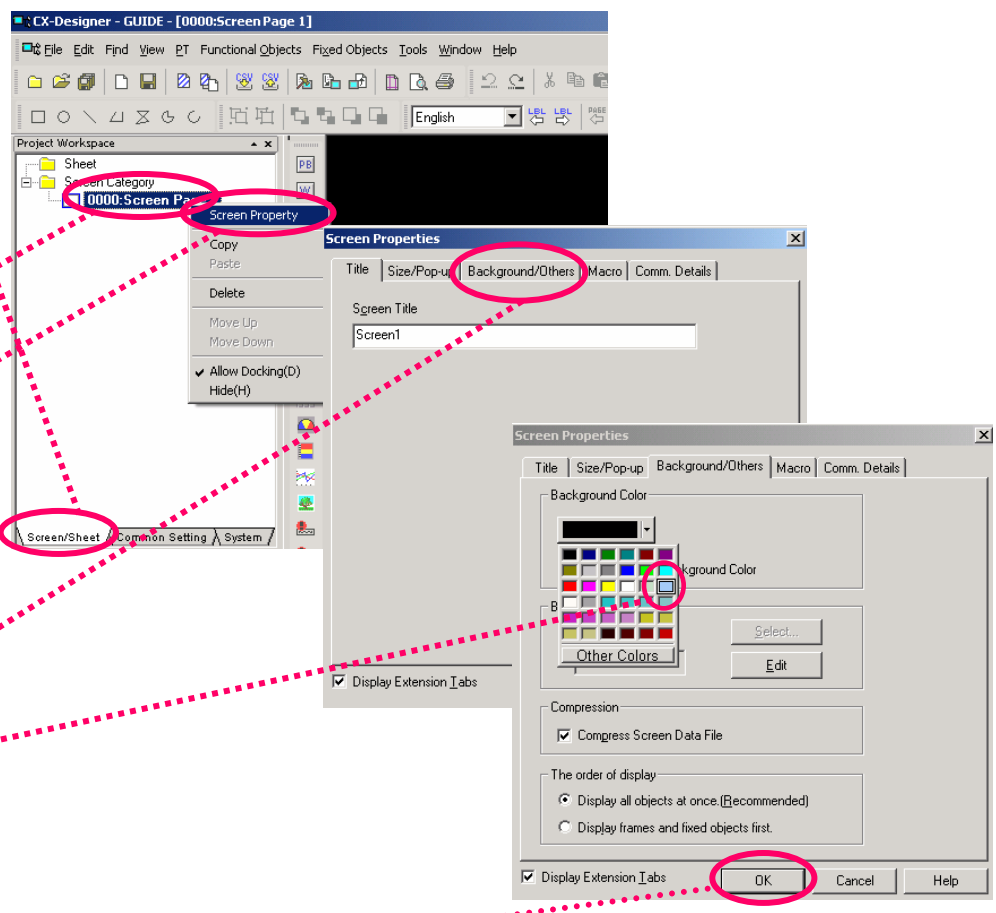
Click [Screen Property] on the menu.

The screen property dialog appears.

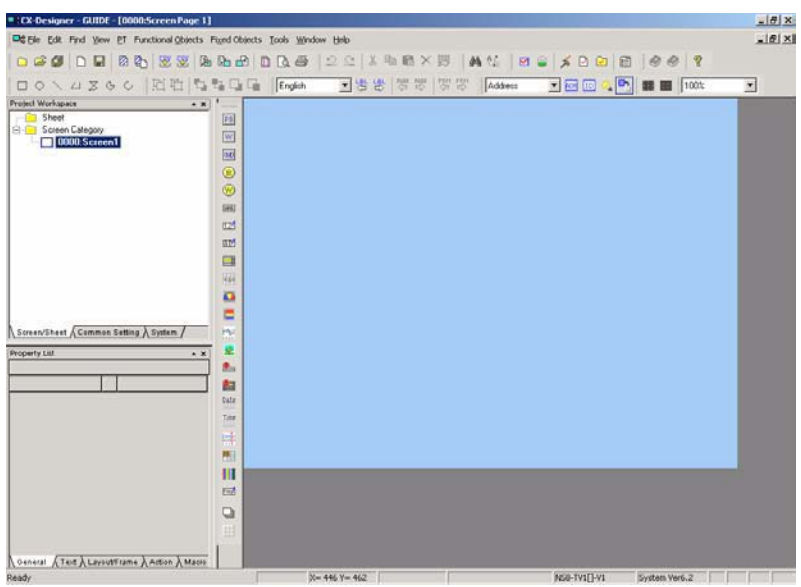
Click the [Background/Other] tab.

Click  to display the color selection dialog and select a background color.

Click



Completed image



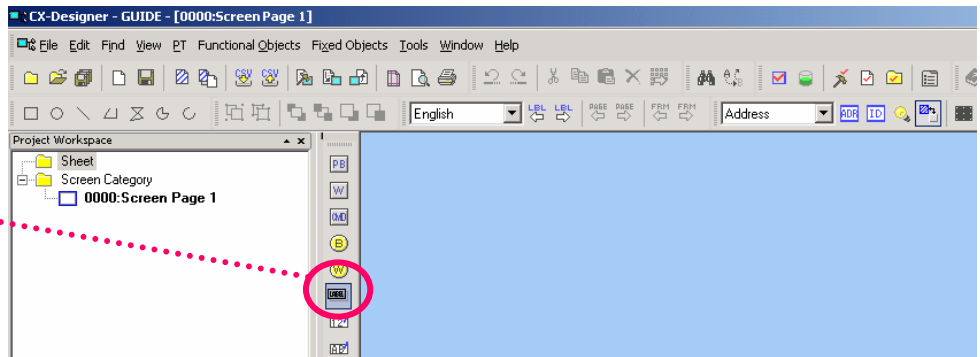
### 9. Displaying a text

Creating a text object on the screen. A text object is used to display a fixed character string.  
In this manual, it is used for a string character that displays a screen title or item name and does not have a special function.

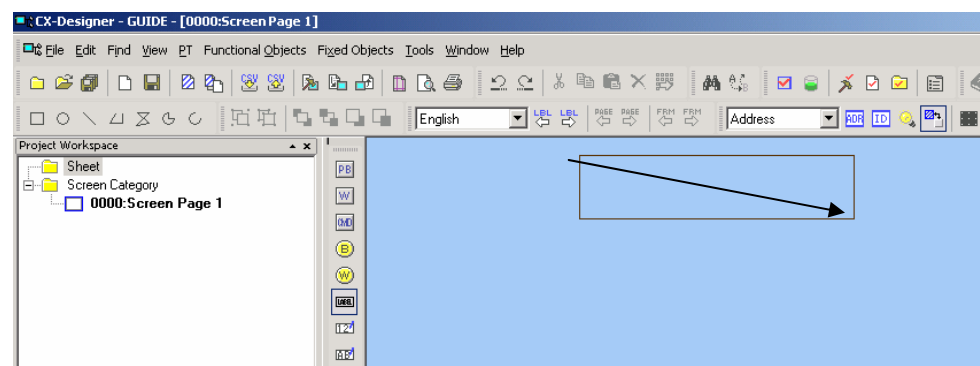
Click the [Text] icon



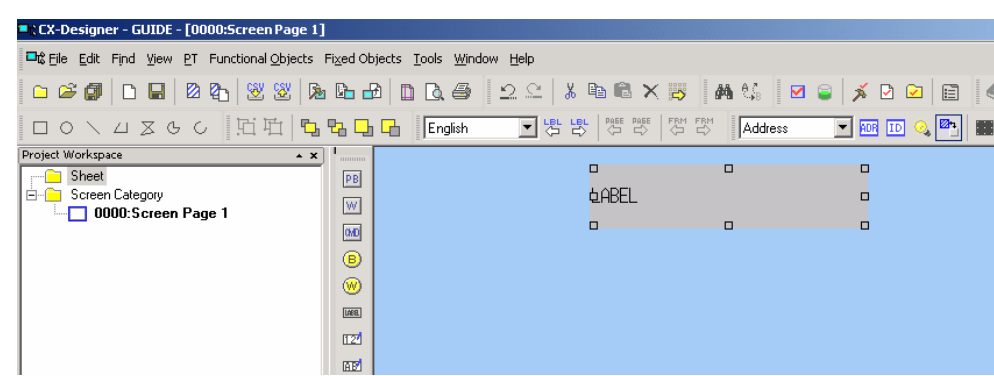
on the list.

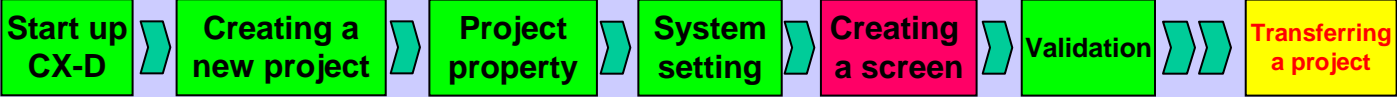


Drag & drop the mouse on the editing screen till you get the size you want. (The size and position of the object can be changed later.)



A new text object is created as shown on the right.





The property list is displayed by clicking the text object to display.

Click the property list and set as follow:

- Text tab
- [Label]
- "Screen1"
- Vertical position
- [Center]
- Horizontal position
- [Center]

Select a color.

The screenshot shows the CX-Designer interface. The main window displays a workspace with a label object. The 'Property List' window on the left shows the properties for the selected label. A red arrow points from this window to a zoomed-in view of the 'Property List' window on the right. In the zoomed-in view, the 'Text' tab is selected, and the 'Color' property is set to a black color swatch. The 'Label' property is set to 'Screen 1', 'Font' to 'Standard', 'Size' to '1x1', 'Vertical Position' to 'Center', and 'Horizontal Position' to 'Center'.

Property List	
Label : LBL0000	
Label	Screen 1
Font	Standard
Size	1x1
Fit the Object Size	<input type="checkbox"/>
Italic	<input type="checkbox"/>
Bold	<input type="checkbox"/>
Vertical Position	Center
Horizontal Position	Center
Color	
Switch label according to Method	<input type="checkbox"/>
Link with the Specification	<input type="checkbox"/>
Switch label according to File Name	<input type="checkbox"/>
Character Code	Other Colors
Specify external file	<input type="checkbox"/>
File	
Address specifying	
Character Code	ASCII Code
Clear Display when	<input type="checkbox"/>
General   <b>Text</b>   Layout/Frame   Action   Macro	



Start up CX-D

Creating a new project

Project property

System setting

Creating a screen

Validation

Transferring a project

Click



to switch to the [Dutch] label.

Set the following items on the property list.

Text tab

[Label]

→ "Screen 1"

[Horizontal Position]

→ "Center"

Click the [General] tab on the property list.

Click the [Background Color] and select a color.

Select the [Layout/Frame] tab.

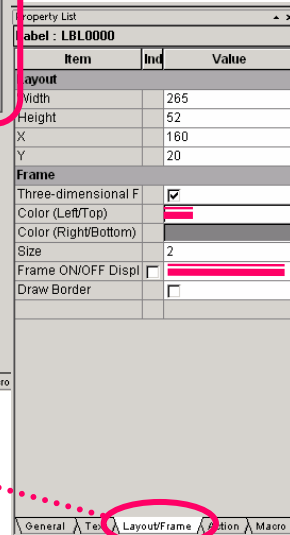
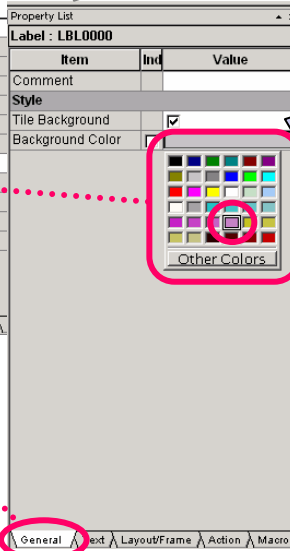
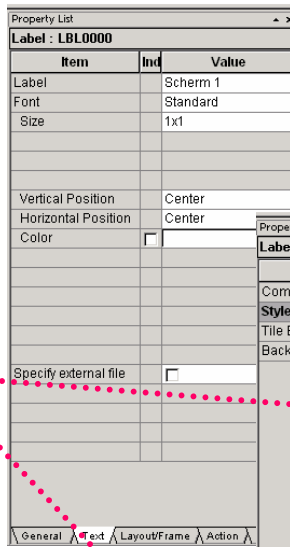
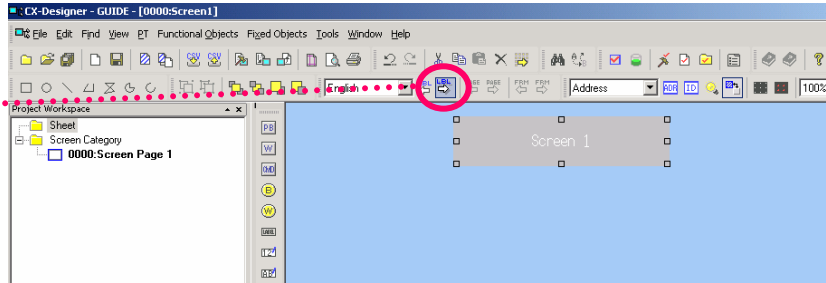
Check "Three-dimensional Frame" check box.

Set "2" to [Size].

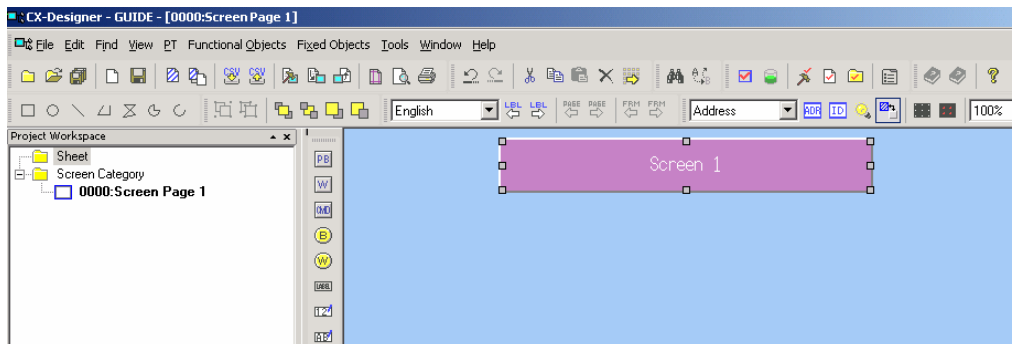
Click

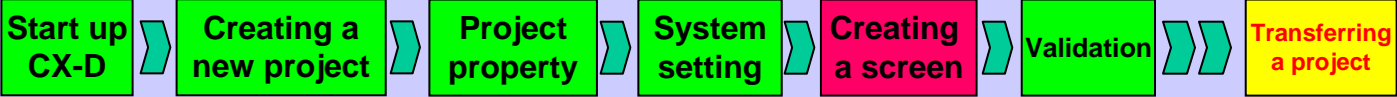


to switch back to the [English] label.



Completed image



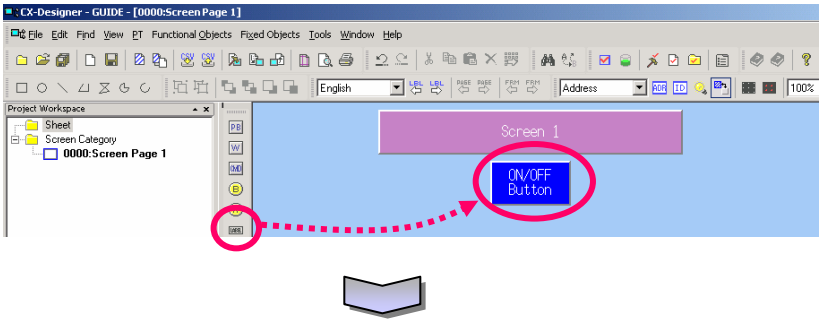


# 10. ON/OFF Button

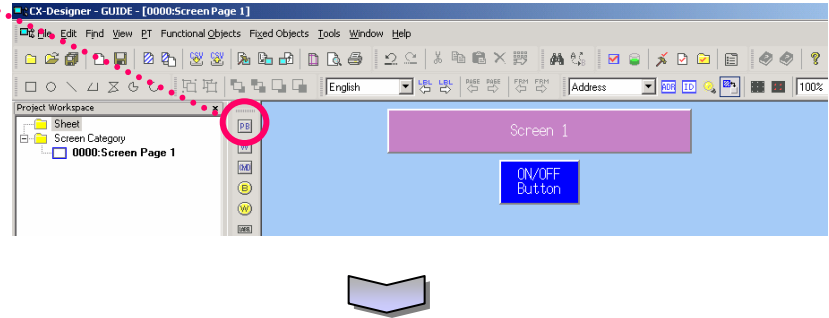
Creating a ON/OFF button on the screen.  
 ON/OFF Button has a function that goes ON/OFF according to the ON/OFF states of specified address (bit) by operation such as touch switch input.  
 In this manual, a button is used as ON/OFF button and Occurred/Cancelled button of virtual alarms.

Create a text object by referring to a "Display a Text".

Click the [ON/OFF] icon on the list.



Drag and drop a mouse to make a shape, same as performed for the text object on page 19.

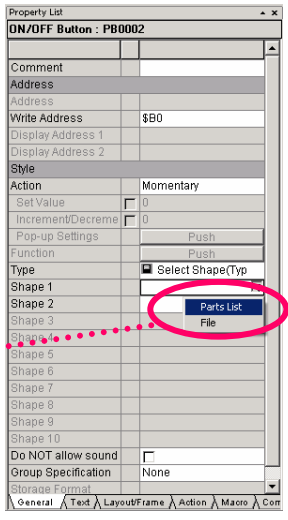
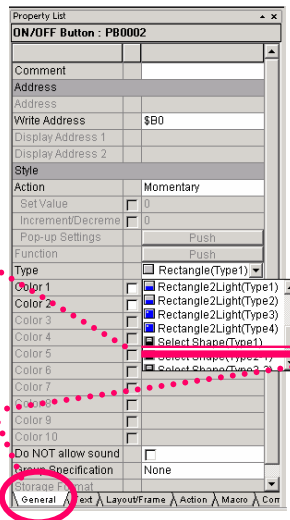
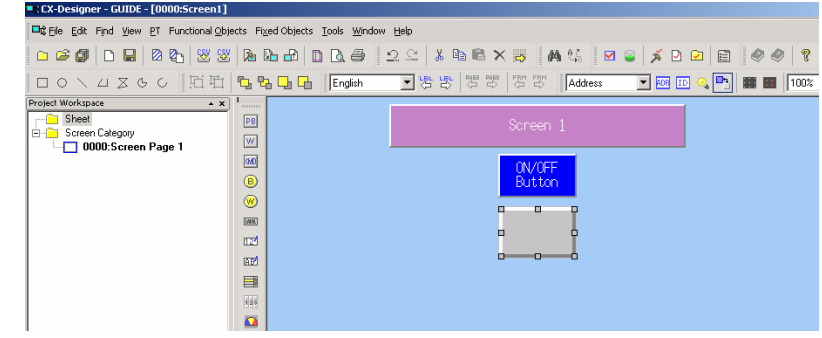


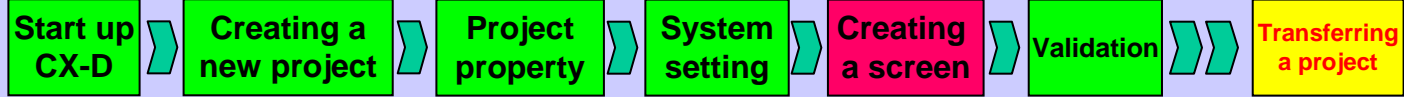
Select the [General] tab.

Click [Type] and select "Select Shape (Type 1)".

Click "Shape 1" and

Select "Parts List"





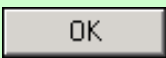
Click 

to display the [BMPfiles] pull-down menu.

Select "Switches-Toggle&Dip" in the BMPfiles.

Select the shape.

Check [Pair].

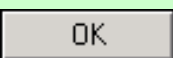
Click 

Click [Action] in the ON/OFF button property list and select [Alternate].

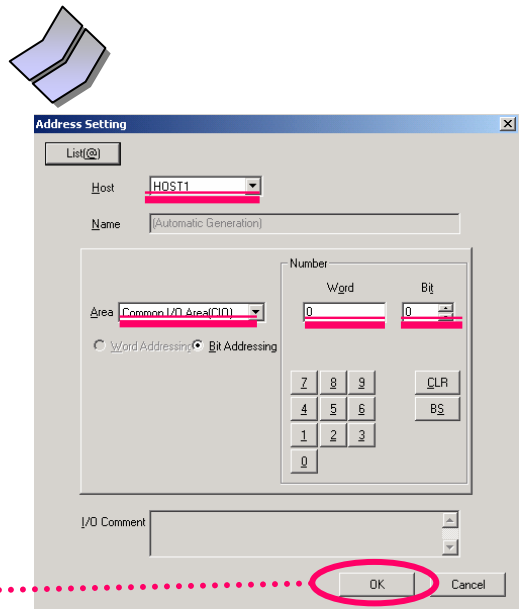
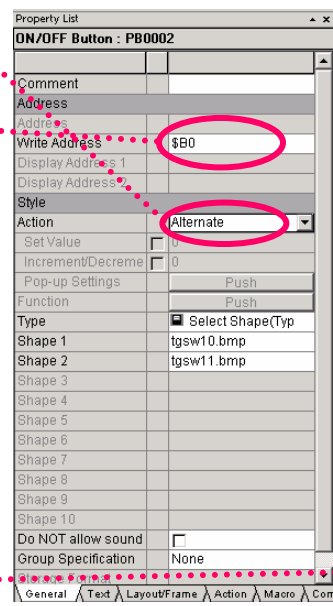
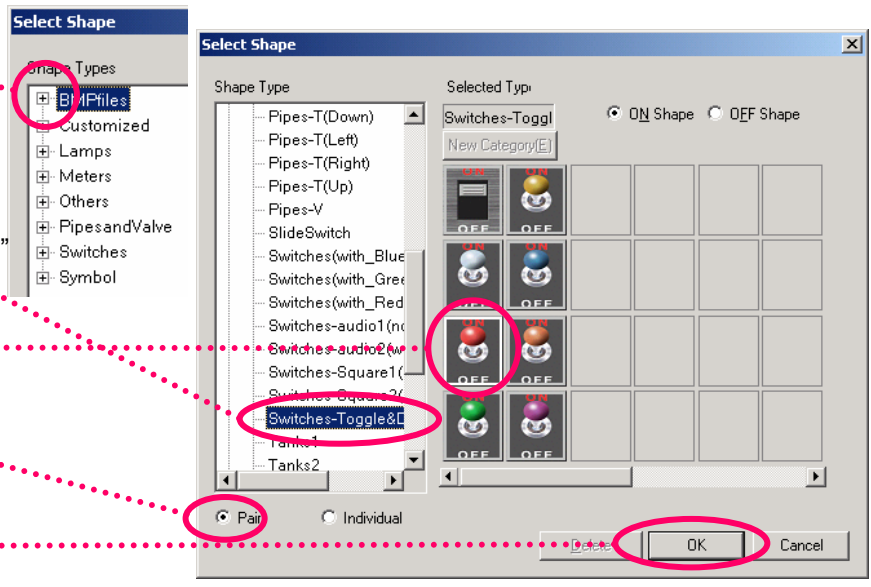
Click [Write Address] and 

Set as follow:

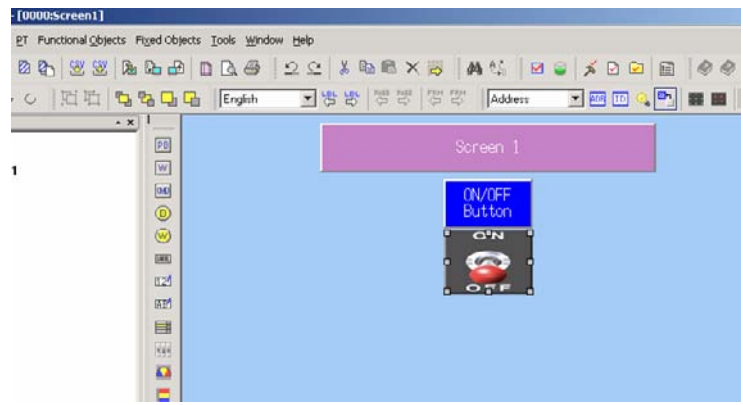
- Host  
→ [HOST1]
- Area  
→ [Common I/O Area (CIO)]
- Word  
→ [0]
- Bit  
→ [0]

Click 

Then, complete.



**Completed image.**

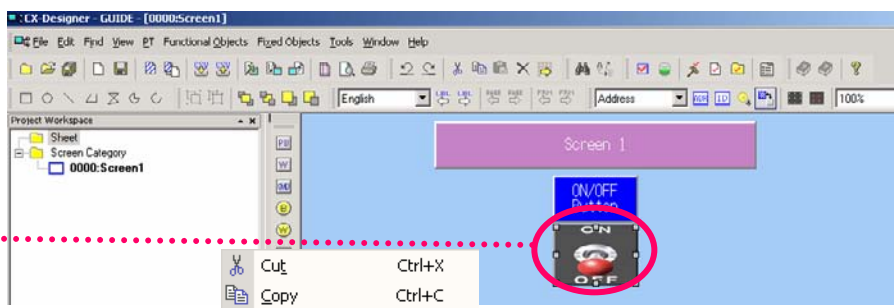


# 11.Repeat function

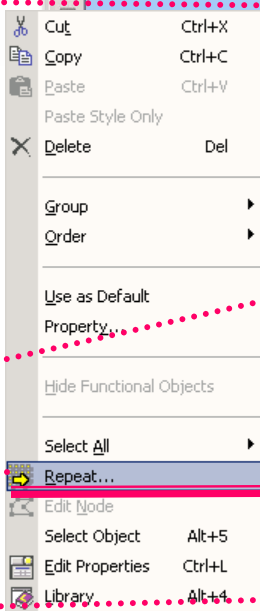
Using a [Repeat] function to copy a object already created.  
 In this manual, you will copy an ON/OFF button with [Repeat] function.

## 11-1 Repeat function (Button)

Right-click the created button.

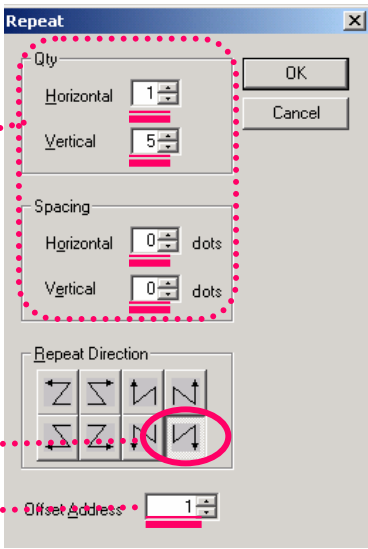


Select [Repeat(R)] from the pop-up menu.



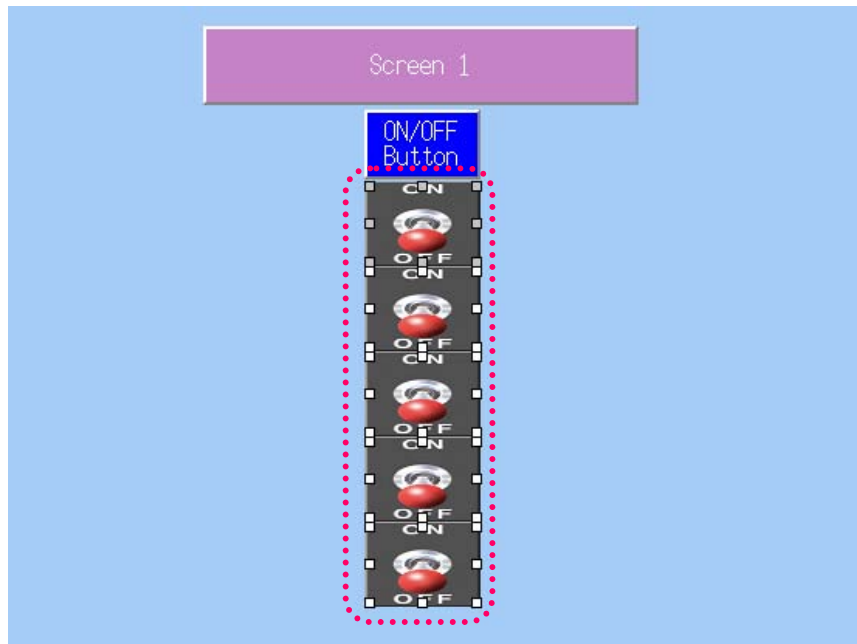
Set as follow:

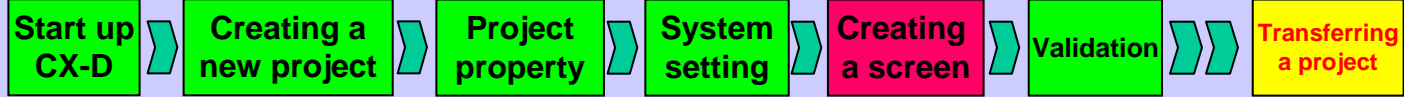
- [Qty]
  - Horizontal → [1]
  - Vertical → [5]
- [Spacing]
  - Horizontal → [0]
  - Vertical → [0]



Select a repeat direction.

Set 1 to [Offset Address].





You can check an allocated address of a functional object (switch) from the [Property list].

**ON/OFF Button : PB0006**

Comment	
Address	
Write Address	HOST1:00000.04
Display Address 1	
Display Address 2	
Style	
Action	Alternate
Set Value	<input type="checkbox"/> 0
Increment/Decrement	<input type="checkbox"/> 0
Pop-up Settings	Push
Function	Push
Type	Select Shape(
Shape 1	tgsw10.bmp
Shape 2	tgsw11.bmp
Shape 3	
Shape 4	
Shape 5	
Shape 6	
Shape 7	
Shape 8	
Shape 9	
Shape 10	
Do NOT allow sound	<input type="checkbox"/>
Group Specification	None
Storage Format	

General | Text | Layout/Frame | Action | Macro

**<Note>**

You can display and edit a list of allocated addresses by selecting ON/OFF button in the Edit Properties dialog box.

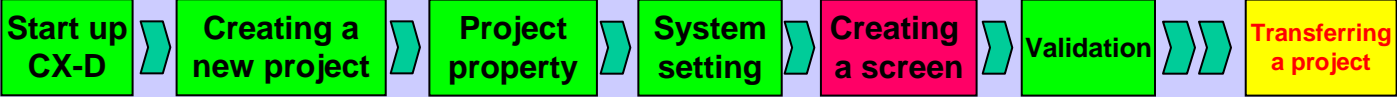
See “11-2. Repeat Function (Label)” for how to use “Edit Properties”.

**Edit Properties**

Object Name	ID	Object Co	Address			
			Communication Address	Communication Address	Write Address	Display Address
ON/OFF Button	PB0002				HOST1:00000.00	
ON/OFF Button	PB0003				HOST1:00000.01	
ON/OFF Button	PB0004				HOST1:00000.02	
ON/OFF Button	PB0005				HOST1:00000.03	
ON/OFF Button	PB0006				HOST1:00000.04	

ON/OFF Button | Display Item Setting...

Apply | OK | Cancel | Help

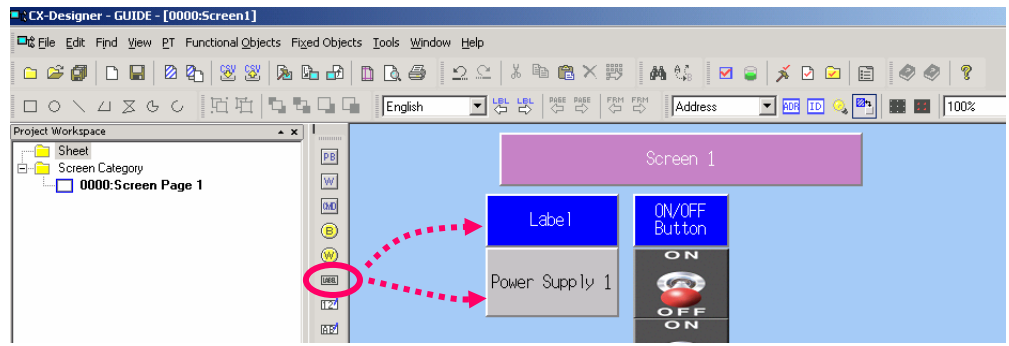


**11-2 Repeat Function (Text)**

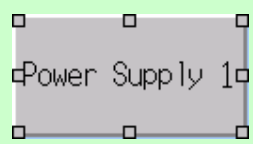
Using [Repeat] function to copy a text object to create multiple objects. In this manual, you will copy a text object using this function.

Add two more texts as shown on the right by referring to "9 Displaying a Text".

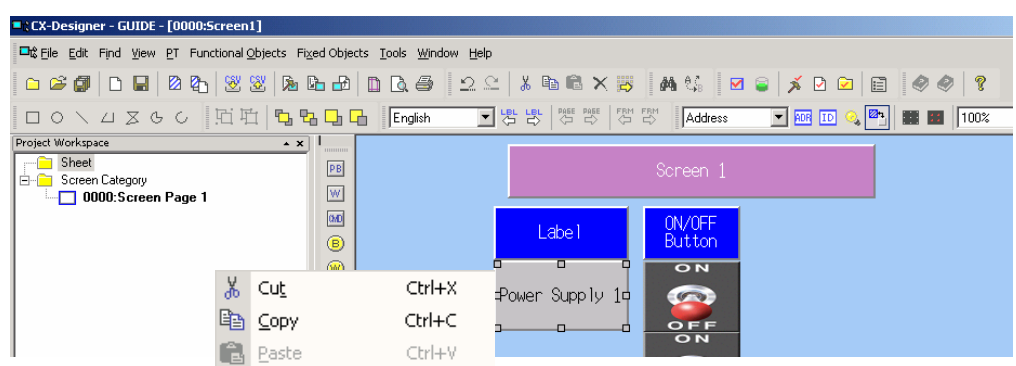
- Upper text [Label] → "Label"
- Bottom text [Label] → "Power Supply 1"



Right-click this button,



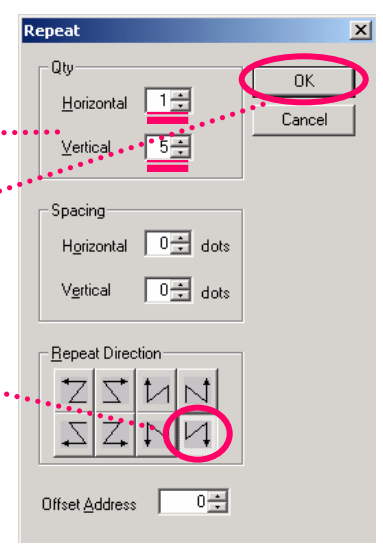
then select [Repeat] from the pull-down menu.

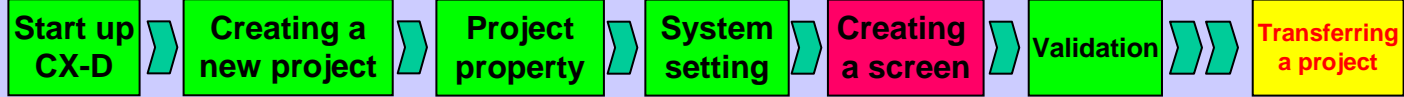


- Enter Qty: Horizontal → [1]
- Vertical → [5]

Select a repeat direction

Click



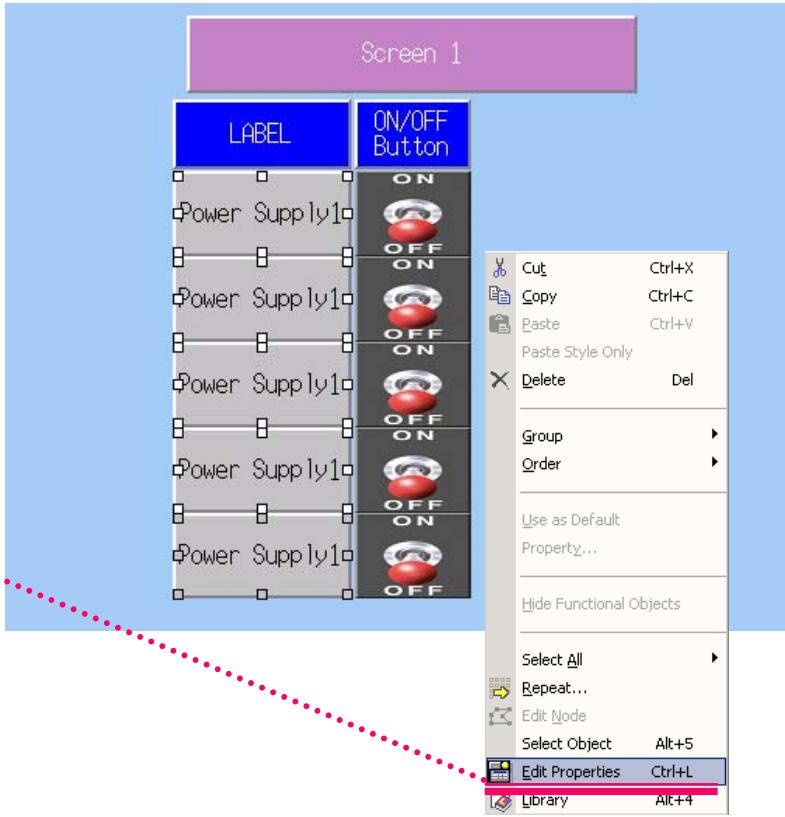
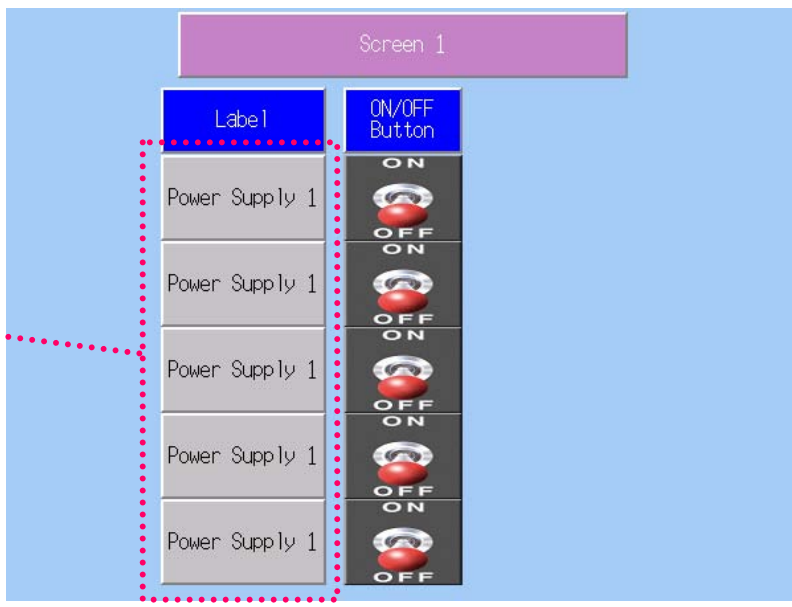


Power Supply 1

Five labels are copied.

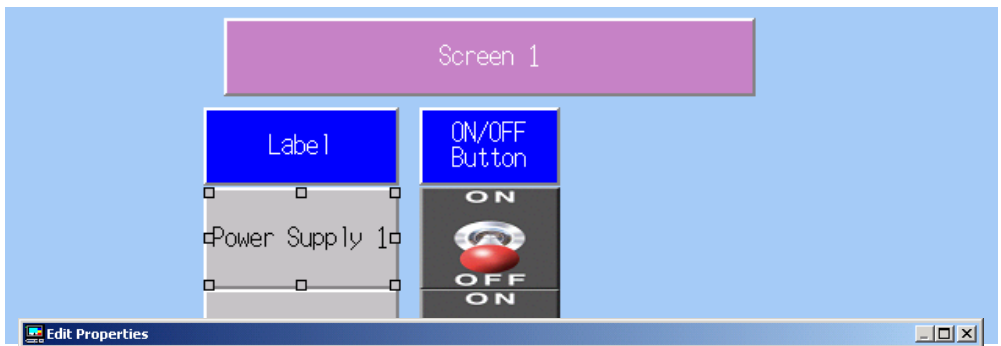
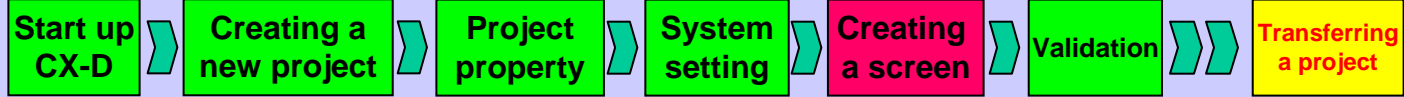


Enclose whole texts while dragging the mouse.

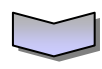
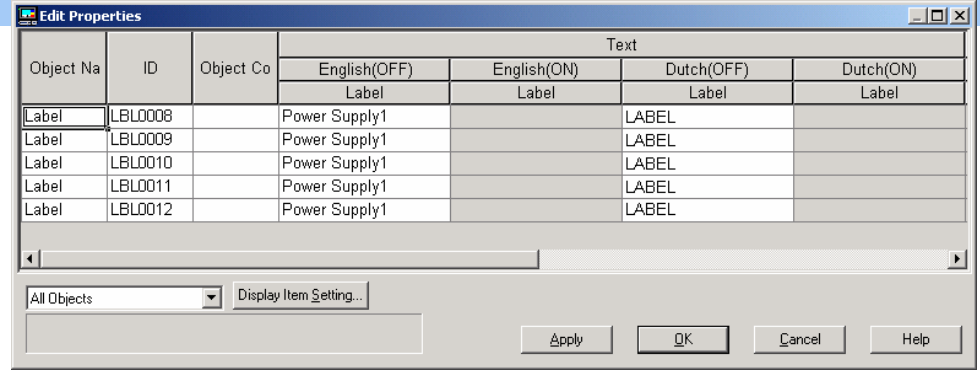


With all the texts selected, right-click to display the pull-down menu and select [Edit Properties].

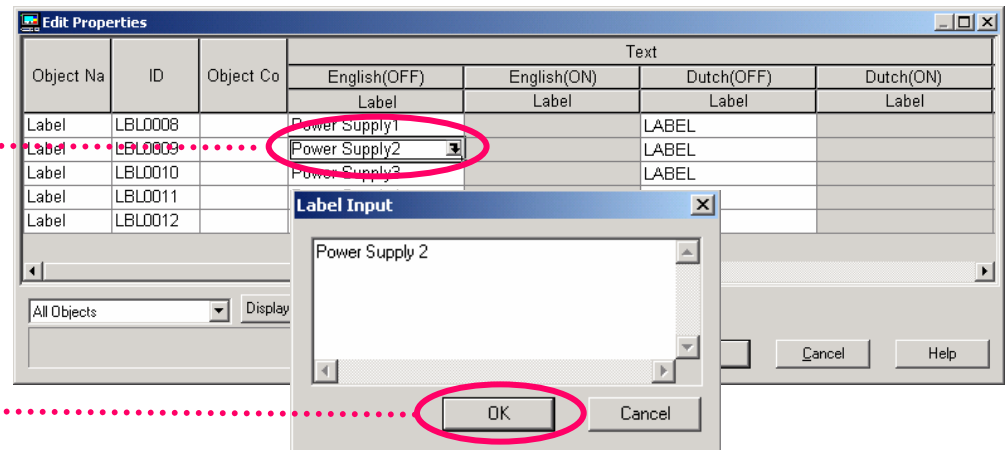
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Paste Style Only
- Delete Del
- Group >
- Order >
- Use as Default Property...
- Hide Functional Objects
- Select All >
- Repeat...
- Edit Node
- Select Object Alt+5
- Edit Properties Ctrl+L
- Library Alt+4



The [Edit Properties] dialog for the selected text objects appear.

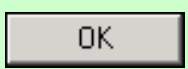


English(OFF) label and click



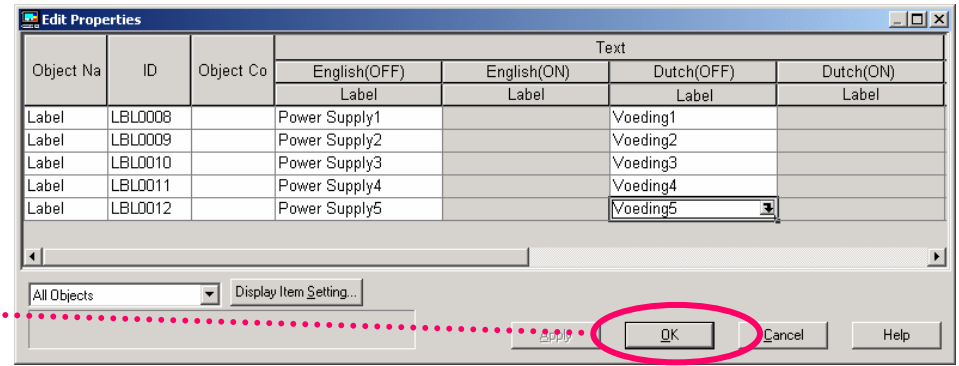
Enter [Power Supply 2].

Click

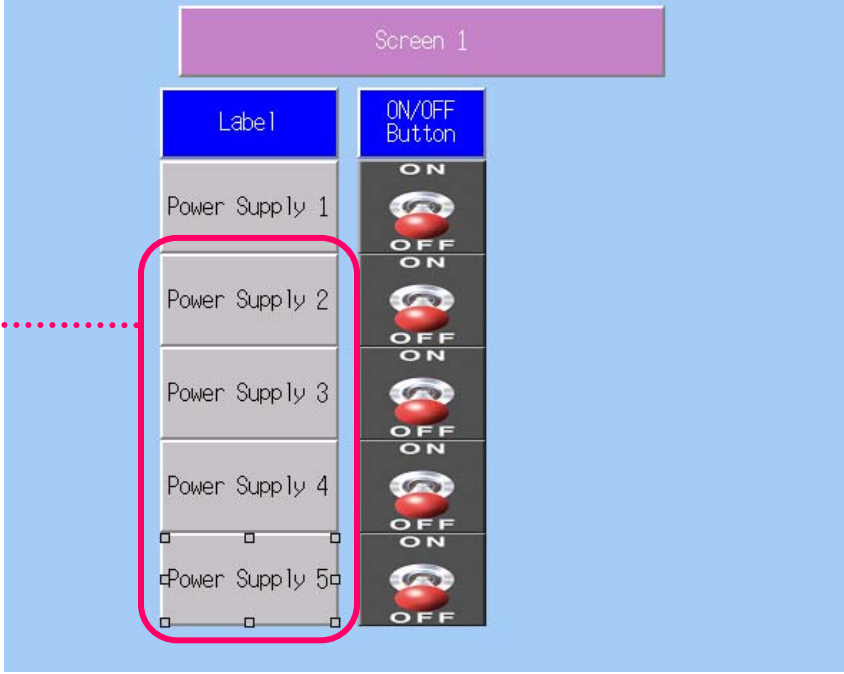
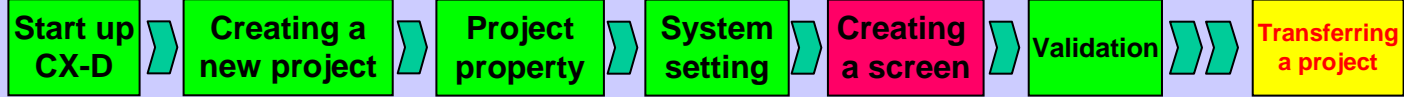


Enter "Power Supply1 to 5" to English (OFF), and "Voeding1 to 5" to Dutch (OFF) in the same way above.

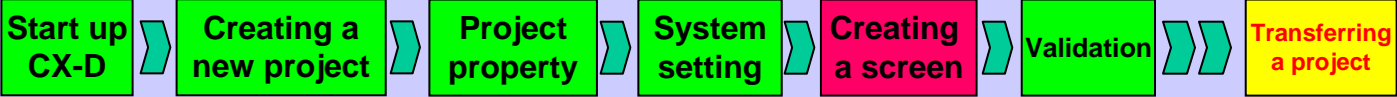
Click







The label displays are changed.

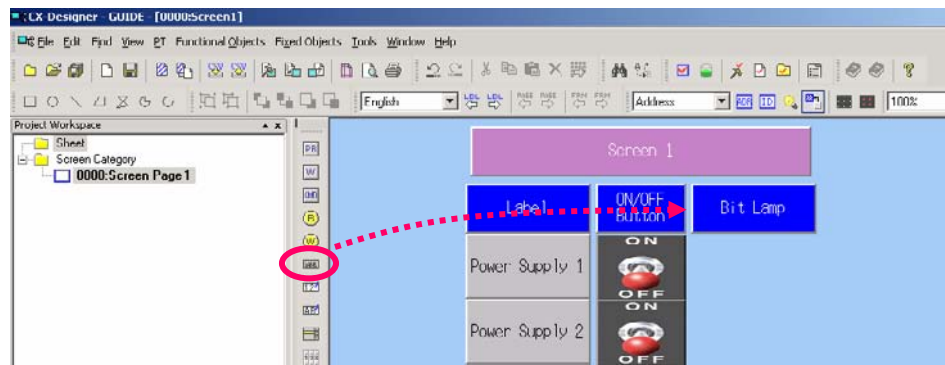


## 12. Bit Lamp

Creating bit lamps on the screen.  
 Bit lamp is an object that switches display color according to ON/OFF status of an address. In this manual, you will create bit lamps that link to ON/OFF button status.

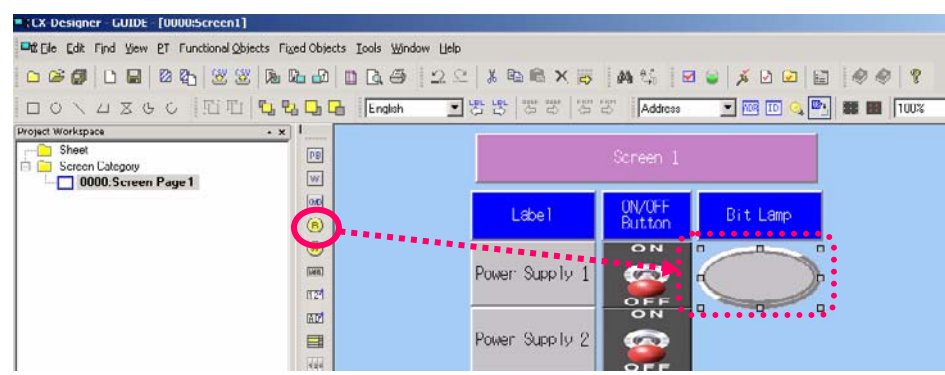
Create a label as shown on the right by referring to the "9. Displaying a Text".

[Label]  
 → "Bit Lamp"




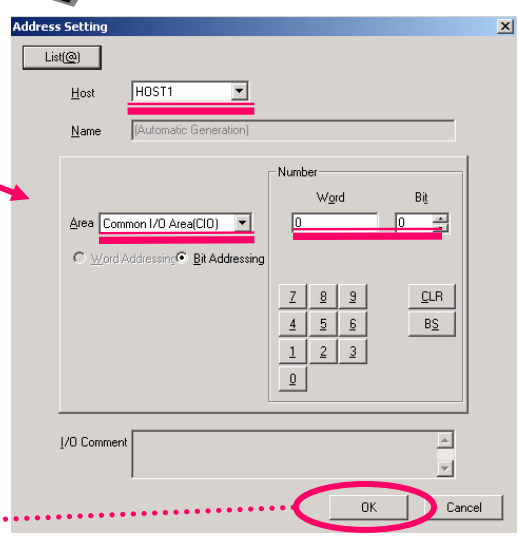
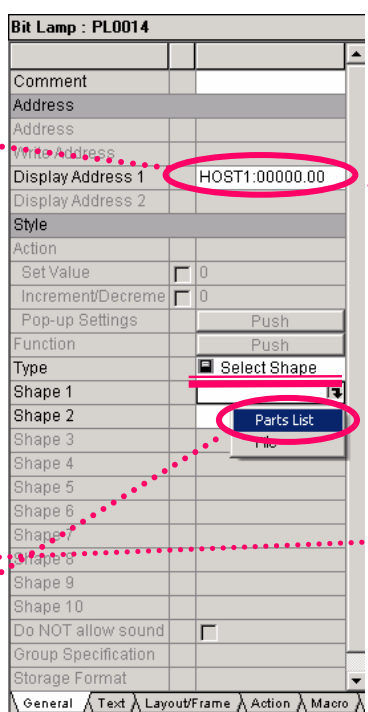
Click 

Drag the object until you get the size you want.

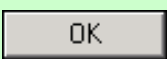


Change settings on the property list.

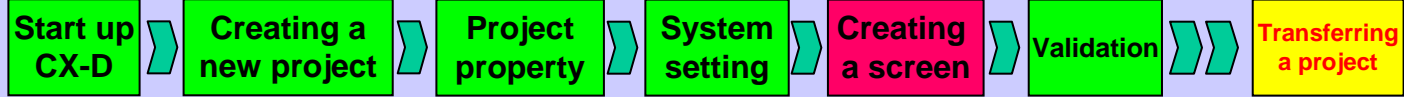
Click [Display Address 1] and 



Host  
 → [HOST1]  
 Area  
 → [Common I/O Area (CIO)]  
 Word  
 → [0]  
 Bit  
 → [0]

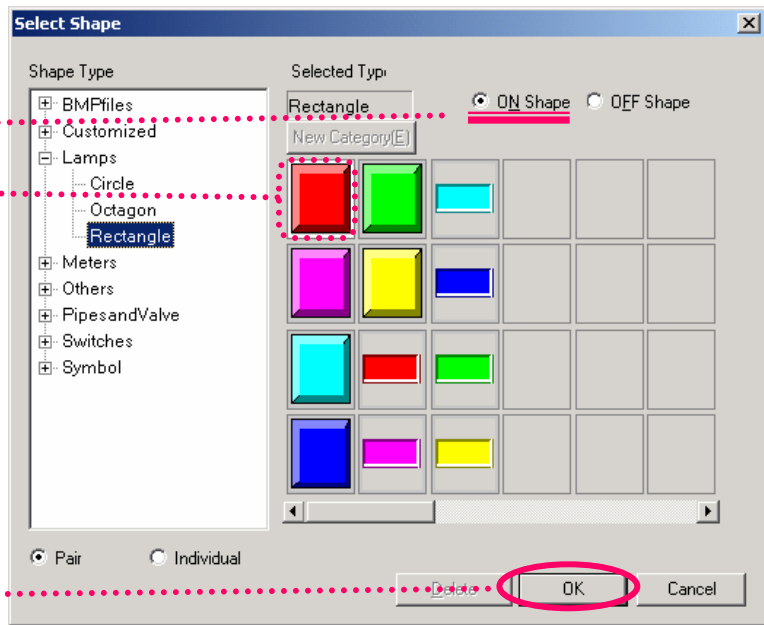
Click 

Click "Select Type" from [Type].

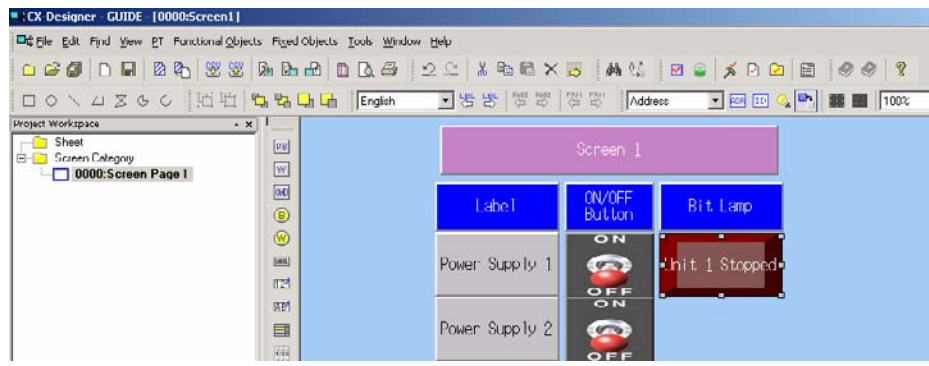
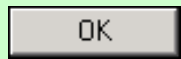


Check [ON Shape].

Select a shape.

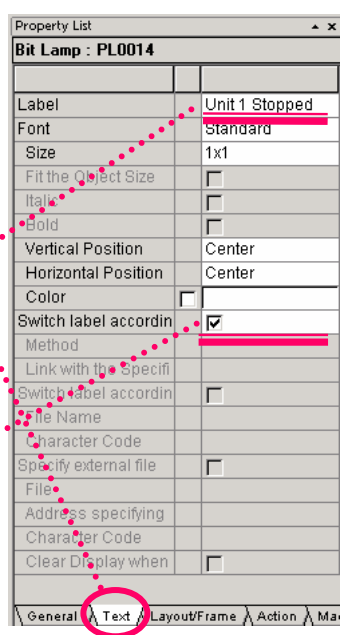


Click



Click the property list and set the following items.

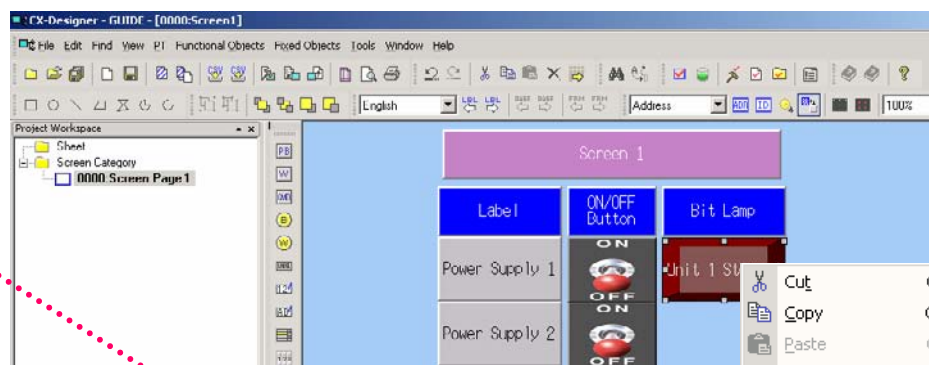
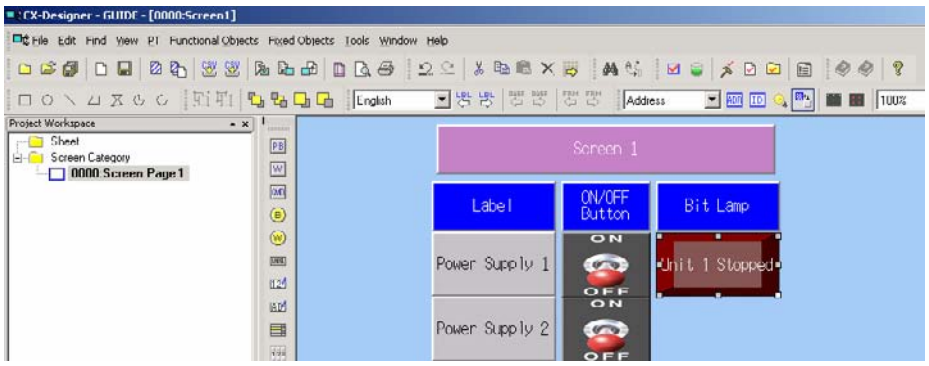
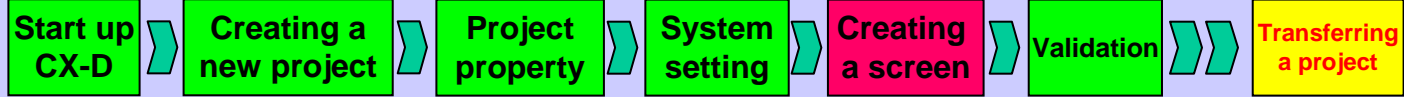
Double-click the [Text] tab.



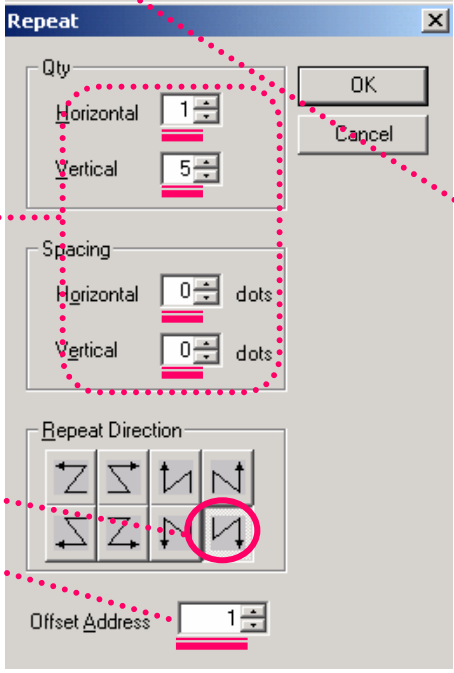
[Label]  
→ "Unit 1 Stopped"

[Switch according to the value]  
→ Check the box





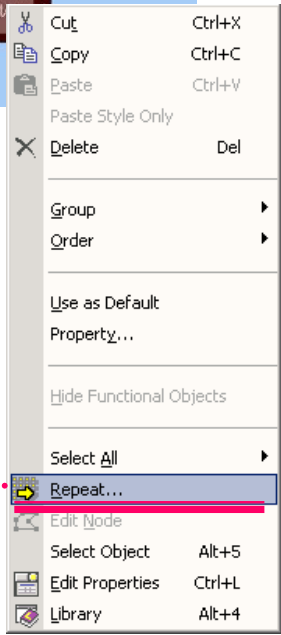
Right-click the button and click [Repeat] from the pull-down menu.

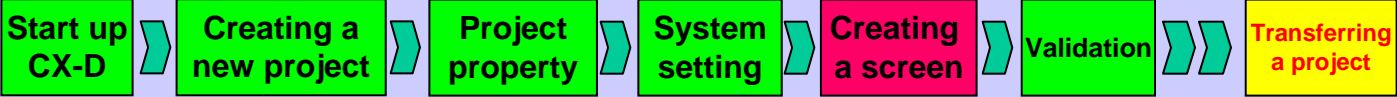


Set as follow:

- [Qty]
- Horizontal → "1"
- Vertical → "5"
- [Spacing]
- Horizontal → "0"
- Vertical → "0"

- [Repeat Direction]
- [Offset Address ] → 1

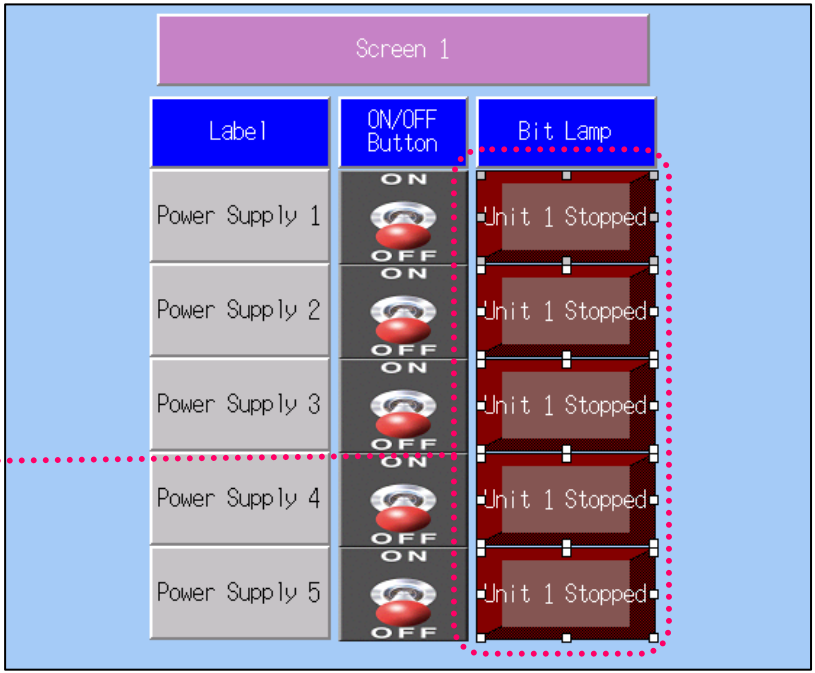




Five buttons are copied.

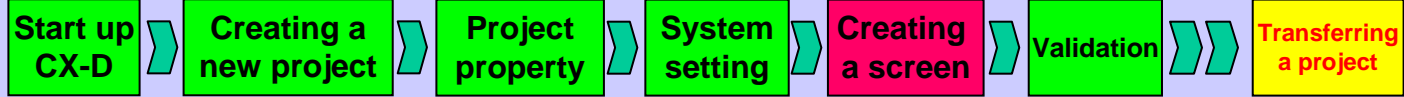


Enclose whole bit lamps while dragging the mouse.



With all bit lamps selected, right-click the mouse to display the pull-down menu and click [Edit Properties].

- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Paste Style Only
- Delete Del
- Group
- Order
- Use as Default
- Property...
- Hide Functional Objects
- Select All
- Repeat...
- Edit Node
- Select Object Alt+S
- Edit Properties Ctrl+L**
- Library Alt+4



Change texts by referring to "11-2 Repeat Function (Text)".

Enter as follow:

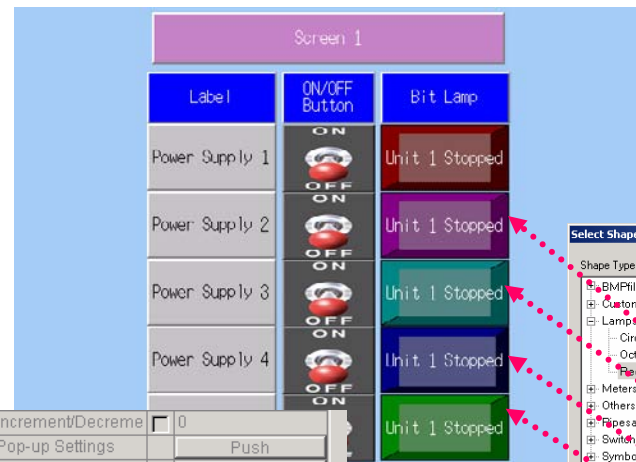
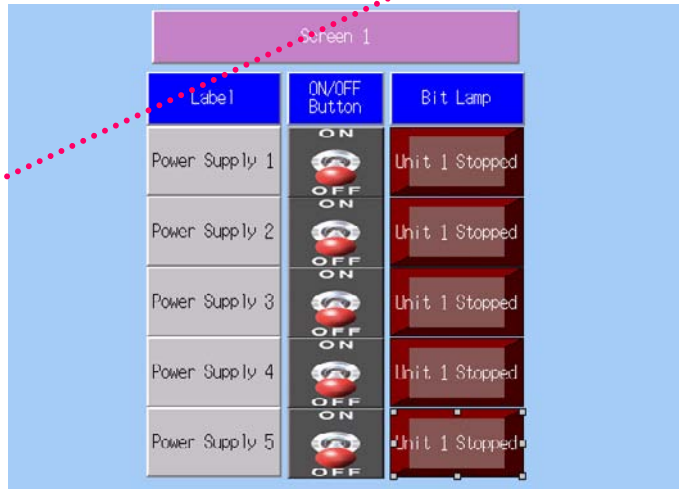
- English (OFF) → "Unit 1 Stopped" to "Unit 5 Stopped"
- English (ON) → "Unit 1 Running" to "Unit 5 Running"
- Dutch (OFF) → "Unit1 Inactief" to "Unit5 Inactief"
- Dutch (ON) → "Unit1 Actief" to "Unit5 Actief"

Click



Bit lamp labels are changed.

Object Na	ID	Object Co	Text			
			English(OFF)	English(ON)	Dutch(OFF)	Dutch(ON)
			Label	Label	Label	Label
Bit Lamp	PL0014		Unit 1 Stopped	Unit 1 Running	Unit1 Inactief	Unit1 Actief
Bit Lamp	PL0015		Unit 2 Stopped	Unit 2 Running	Unit2 Inactief	Unit2 Actief
Bit Lamp	PL0016		Unit 3 Stopped	Unit 3 Running	Unit3 Inactief	Unit3 Actief
Bit Lamp	PL0017		Unit 4 Stopped	Unit 4 Running	Unit4 Inactief	Unit4 Actief
Bit Lamp	PL0018		Unit 5 Stopped	Unit 5 Running	Unit5 Inactief	Unit5 Actief



Change a lamp type for Units 2 to 5 on the property list in the same way you created "Unit 1 Stopped".

Increment/Decrement  0

Pop-up Settings  Push

Function  Push

Type  Select Shape

Shape 1

Shape 2

Shape 3

Shape 4

Shape 5

Select Shape

Shape Type

- BMFiles
- Customized
- Lamp
  - Circle
  - Octagon
  - Rectangle
- Meters
- Others
- PipesandValve
- Switches
- Symbol

Selected Type

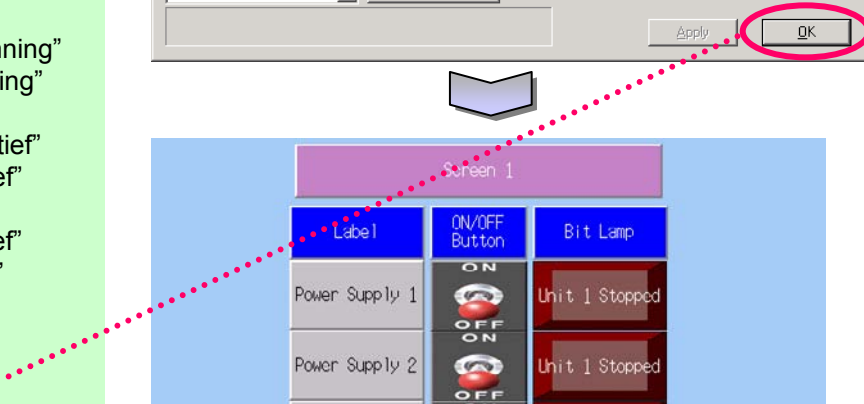
Rectangle  ON Shape  OFF Shape

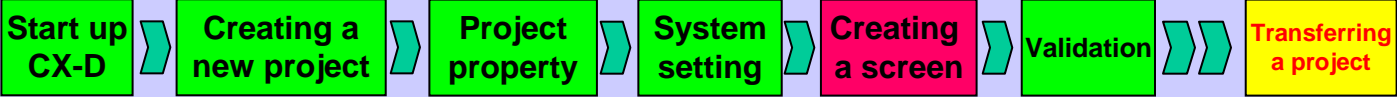
New Category(E)

Grid of color swatches:

Pair  Individual

Delete OK Cancel





### 13. Adding a screen

**Adding a new screen.**  
 In this manual, you will first create screen 0001 and copy the title label of the screens 0000 to 0001.

Copy the title label of screen 1.

Right-click the object and select [Copy].

### Creating Second Screen



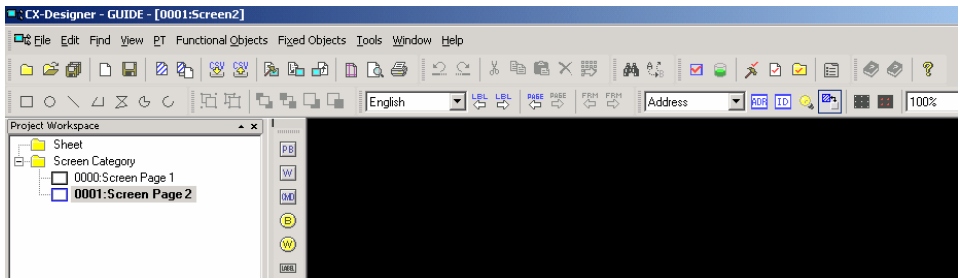
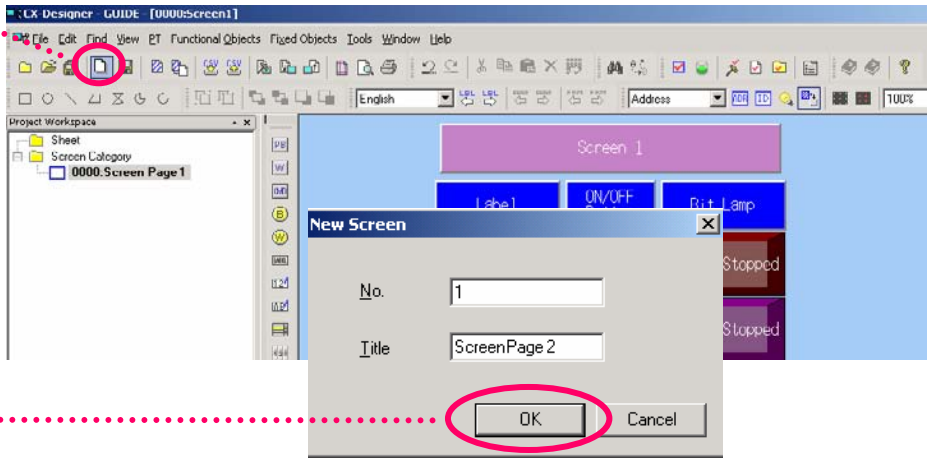
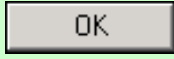
Left-click [New screen] icon.



Open the New Screen menu.

Enter "Screen 2" to [Title].

Click



Start up  
CX-D

Creating a  
new project

Project  
property

System  
setting

Creating  
a screen

Validation

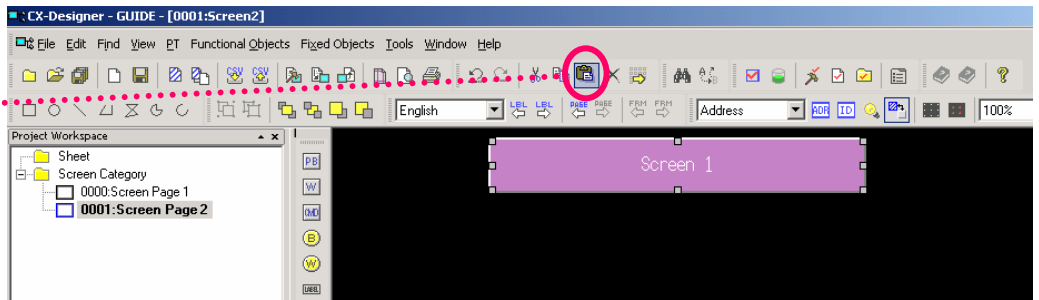
Transferring  
a project

Click



or [Ctrl] + [V].

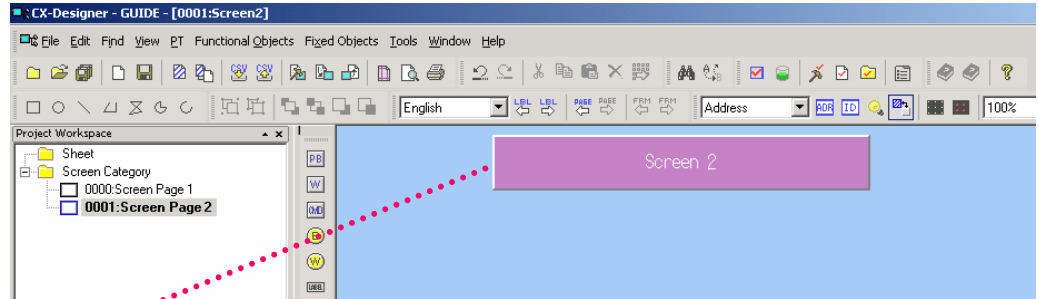
A label object is copied.



Change [Background] in  
the screen property dialog  
by referring to "8. Screen  
properties".

Set as follow from the  
text object property list.

[Label]  
→ Screen 2



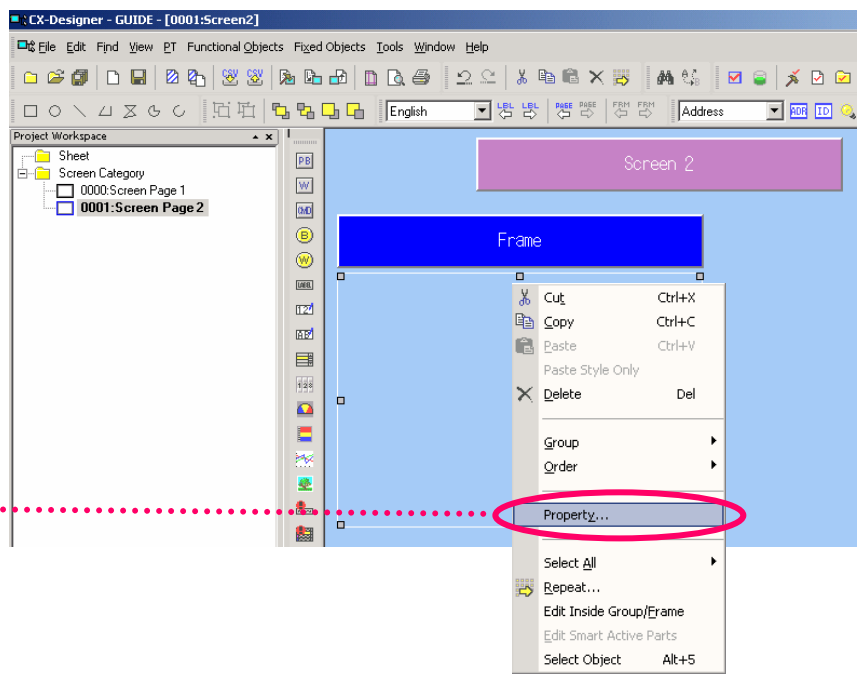
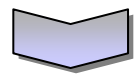
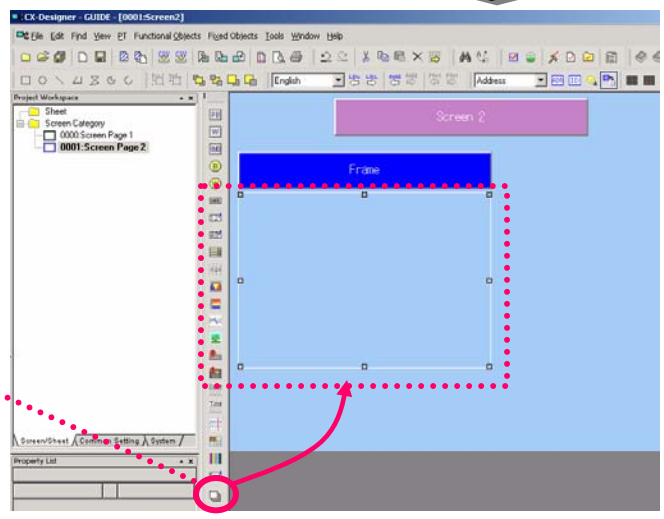
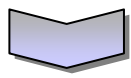
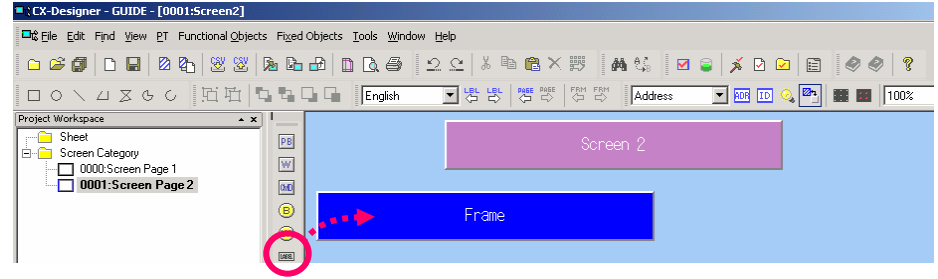



# 14. Frame

Frame is an object that changes a displayed text on objects that have a page switch function. In this manual, a frame is used to switch a low alarm and a high alarm display.

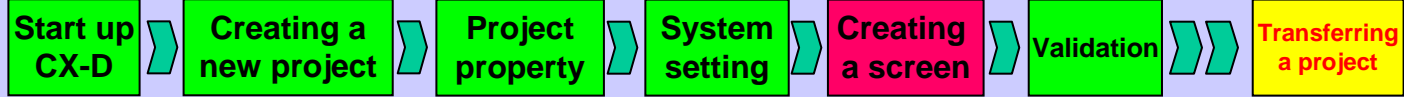
Create a label as shown on the right by referring to "9 Display a Text."

[Label]  
→ "Frame"



Select the icon  and drag it until you get the size you want.

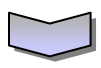
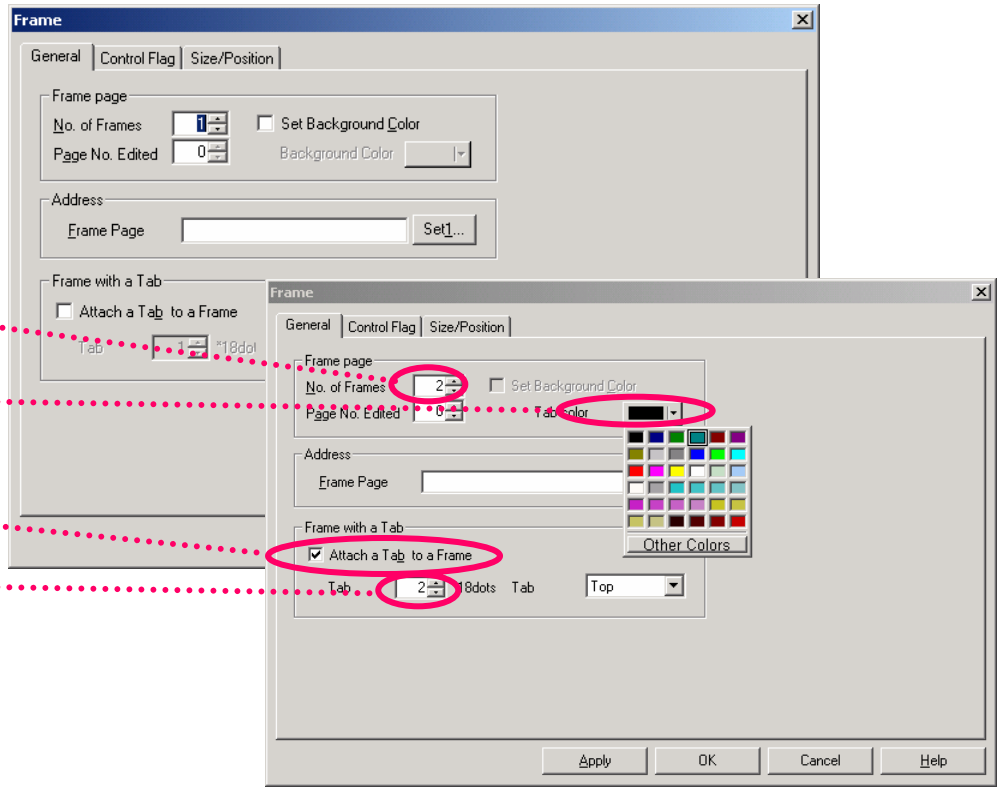
Right-click the object and select [Property] from the pull-down menu.



Select as follow:  
 [No. of Frames]  
 → "2"

Select a color

Check the [Frame with a tab] box.  
 [Height] → "2"

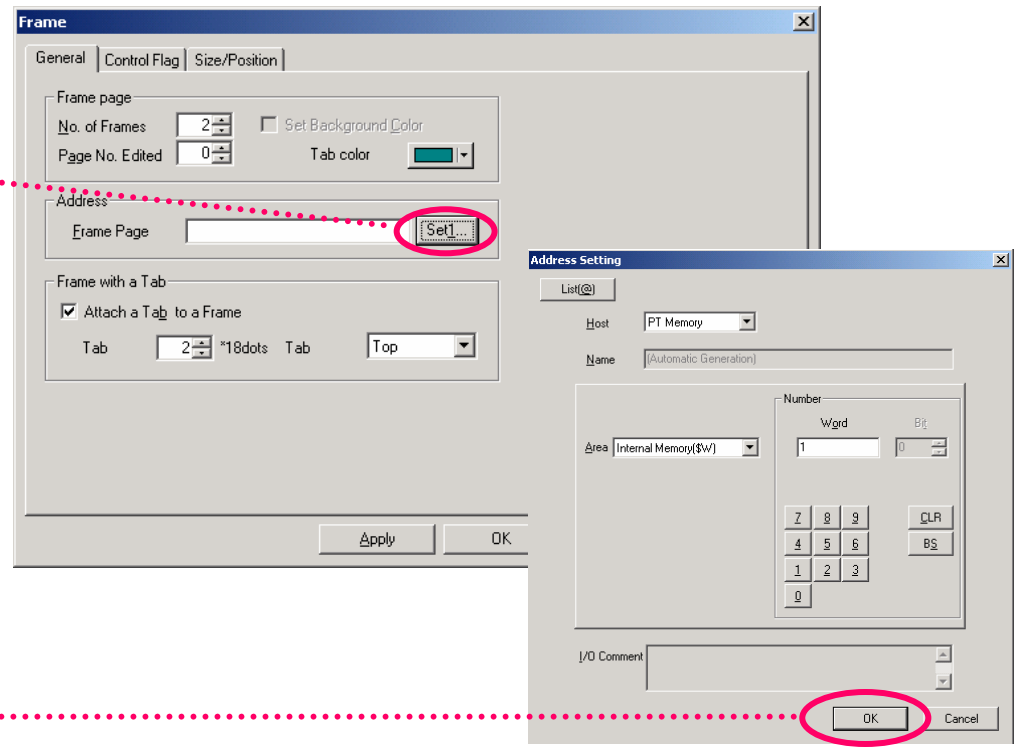


Set as follow from the address setting menu.

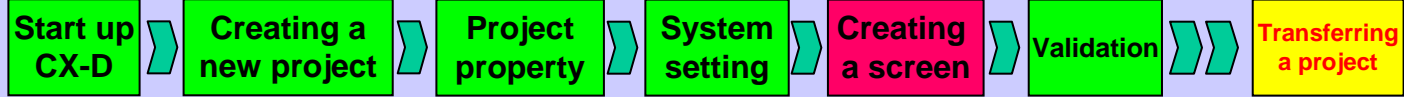
Host Name  
 → [PT memory]

Area Name  
 → [Internal memory (\$W)]

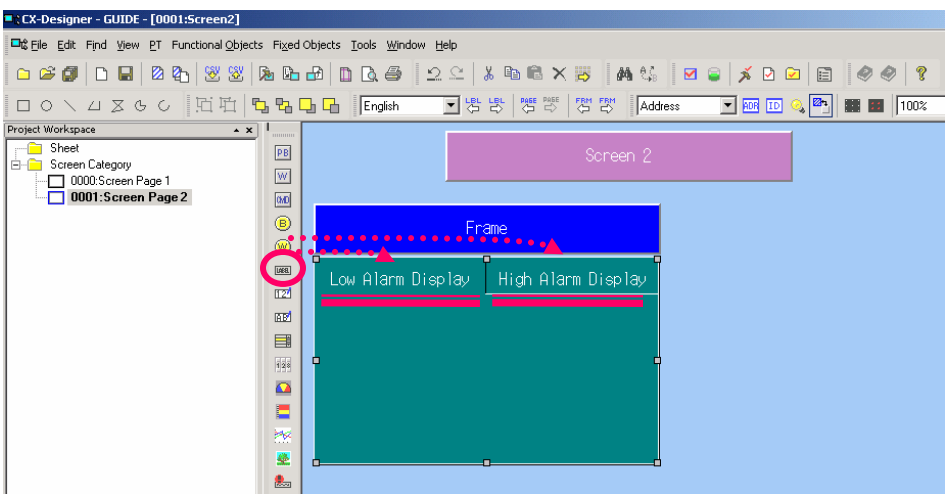
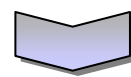
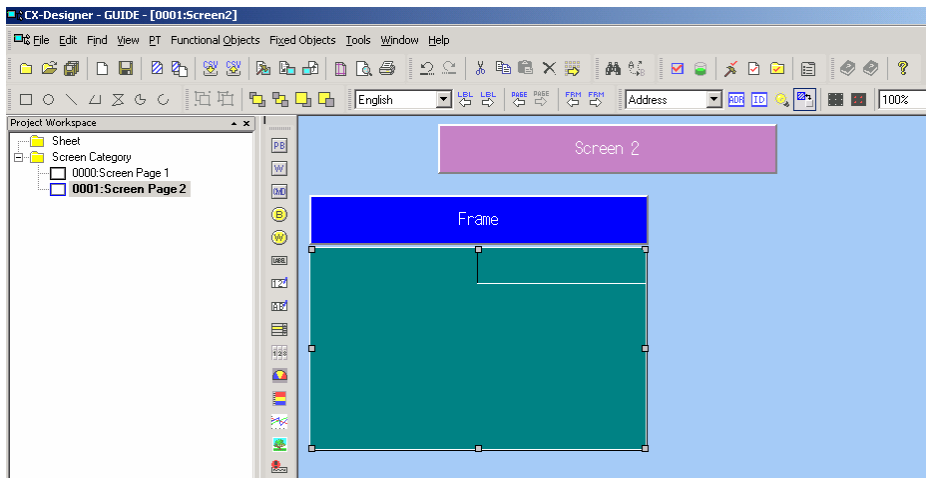
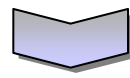
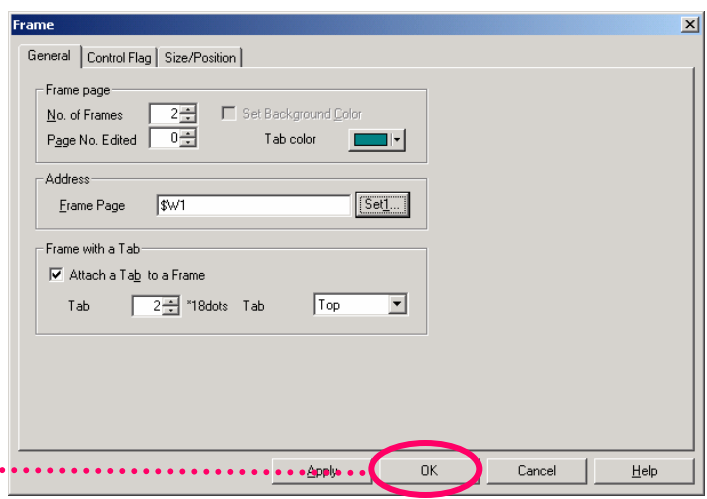
Word  
 → [1]



Click



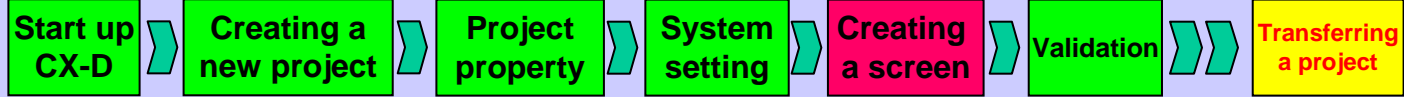
Click  
OK



Create two labels as shown on the right by referring to "9. Displaying a Text".

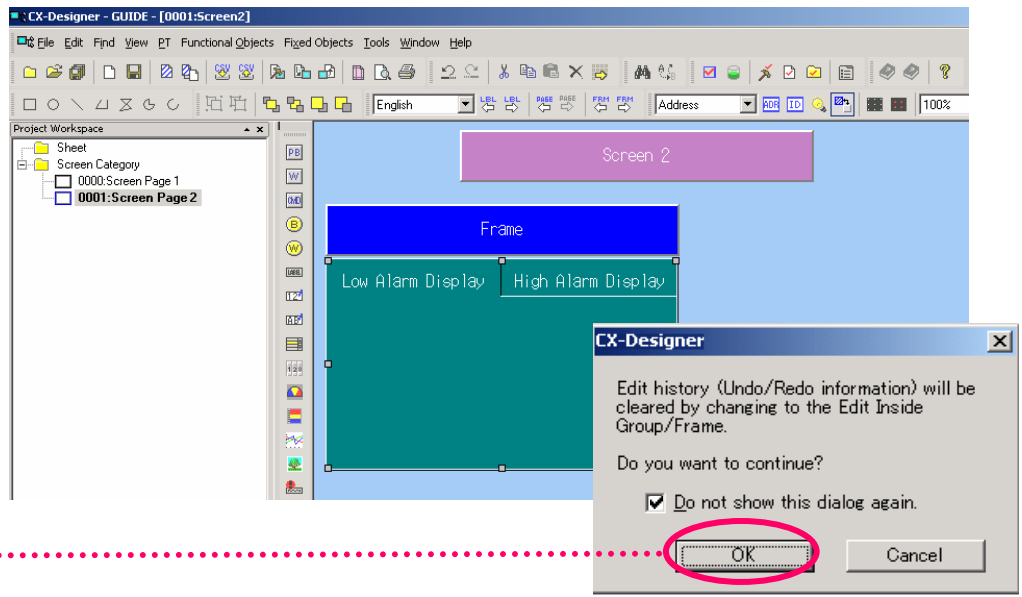
[Label]  
→ "Light Alarm Display"  
[Tile Background]  
→ Uncheck the box.

[Label]  
→ "High Alarm Display"



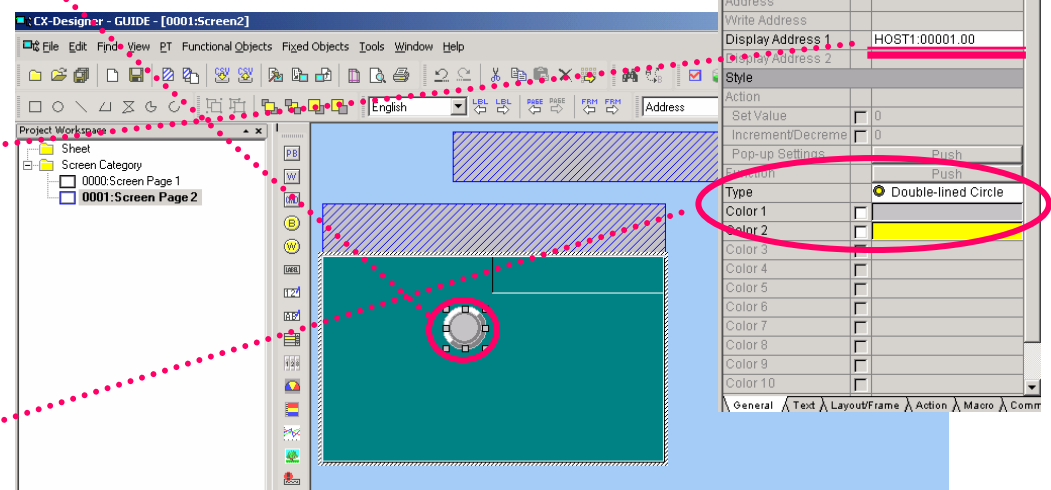
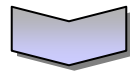
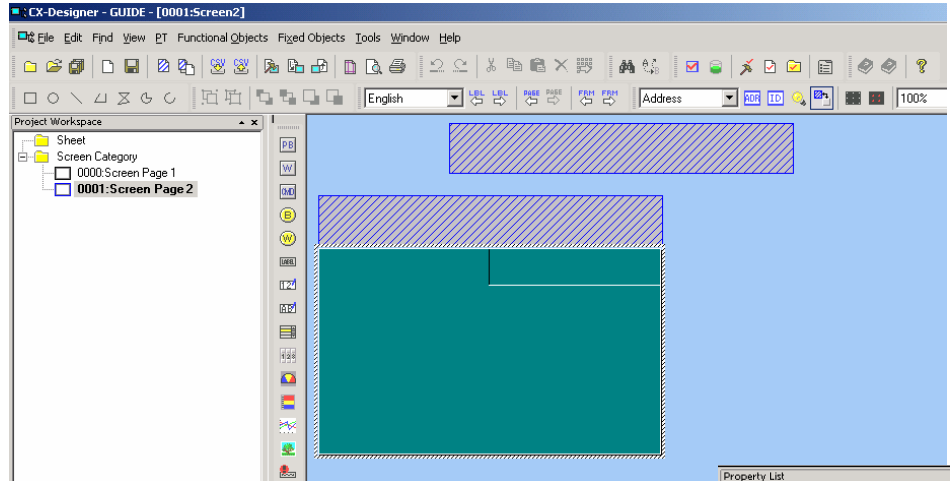
Double-click the frame object.  
 Check the "Do not show this dialog again" box.

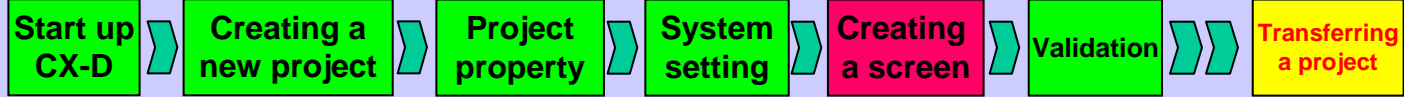
Click



Create a bit lamp by referring to "12. Bit Lamp".  
 Enter the following settings for [Display Address 1] in the property list.

Host  
 → [HOST 1]  
 Area Name  
 → [Common I/O Area (CIO)]  
 Word  
 → [1]  
 Bit  
 → [0]  
 [Type]  
 → Double-line Circle  
 Set [Color 1] and [Color 2].





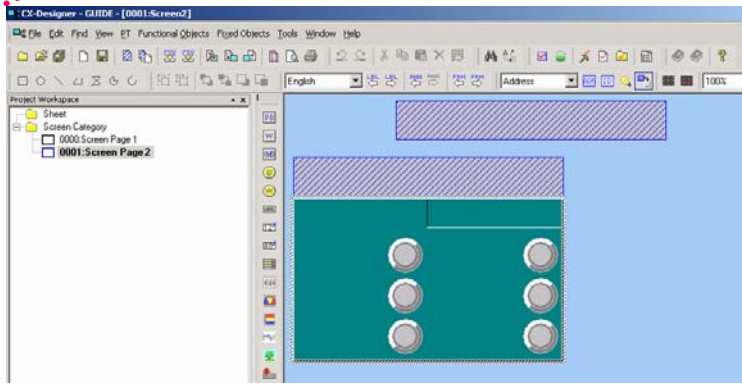
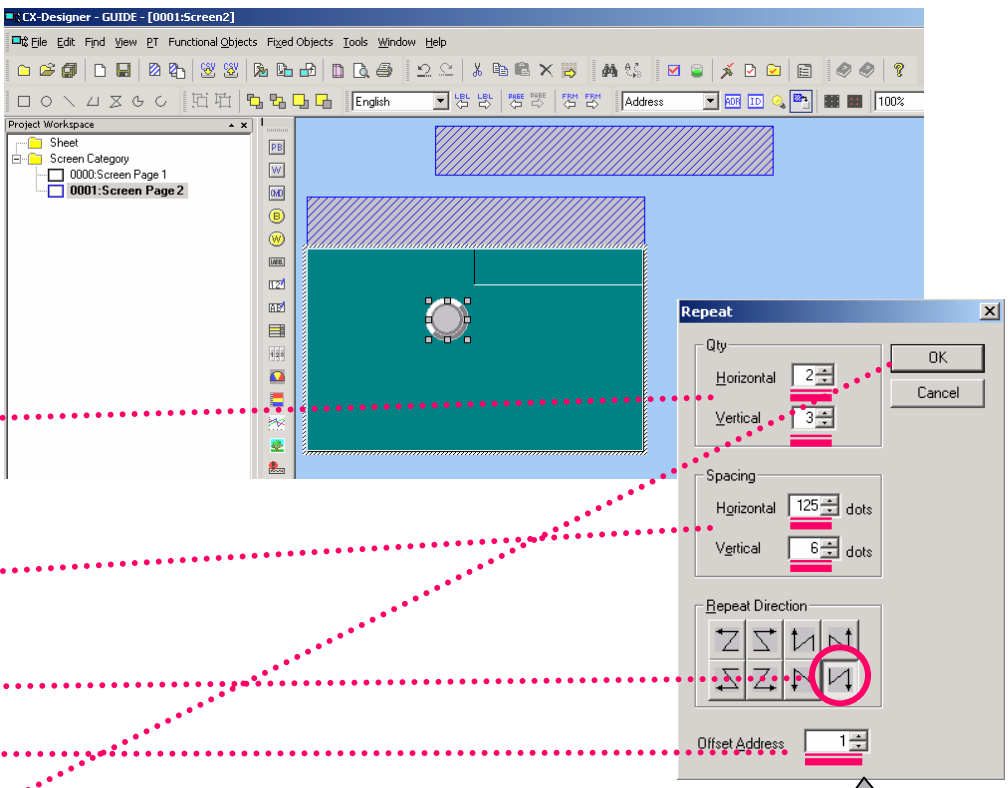
Create six bit lamps by referring to "11. Repeat function".

Set as follow:

- [Qty]
  - Horizontal → "2"
  - Vertical → "3"
- [Spacing]
  - Horizontal → "125"
  - Vertical → "6"

Repeat direction  
Set "1" to [Offset Address]

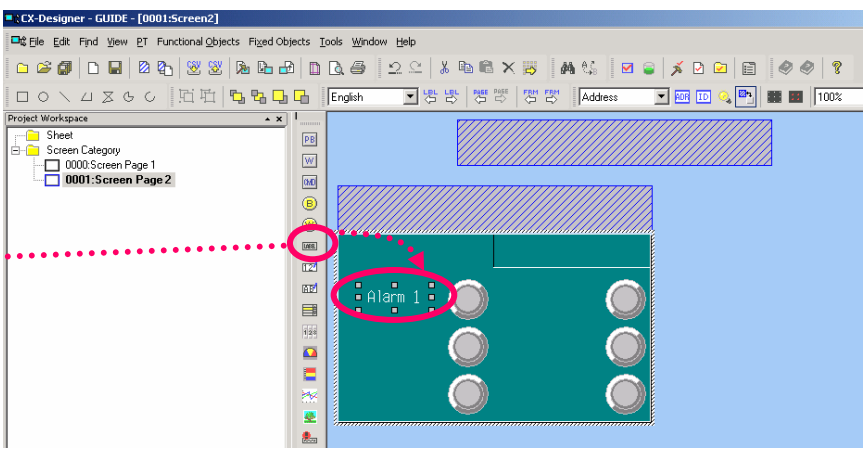
Click  
OK



Create a label "Alarm1" by referring to "9. Displaying a Text".

[Label] → "Alarm 1"

[Tile Background] → Uncheck the box.



Start up CX-D

Creating a new project

Project property

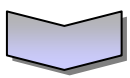
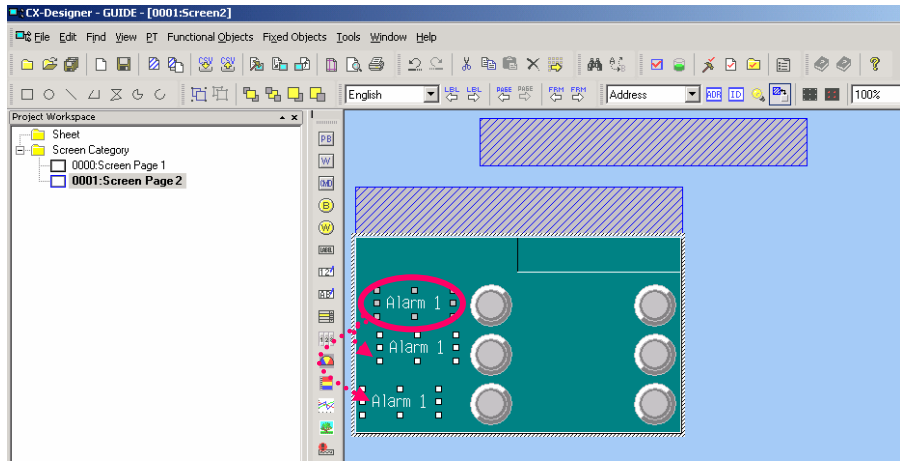
System setting

Creating a screen

Validation

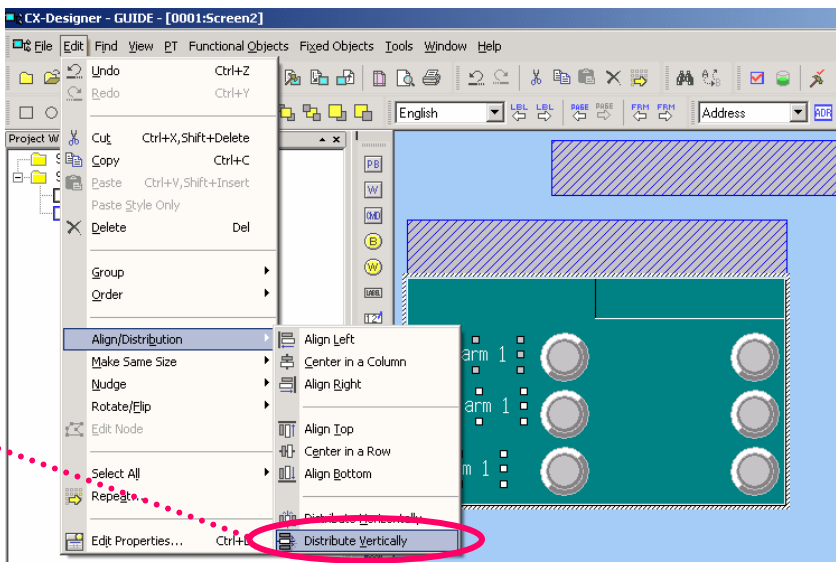
Transferring a project

Copy a label object by dropping & dragging the label "Alarm 1" while holding down the [Ctrl] key.



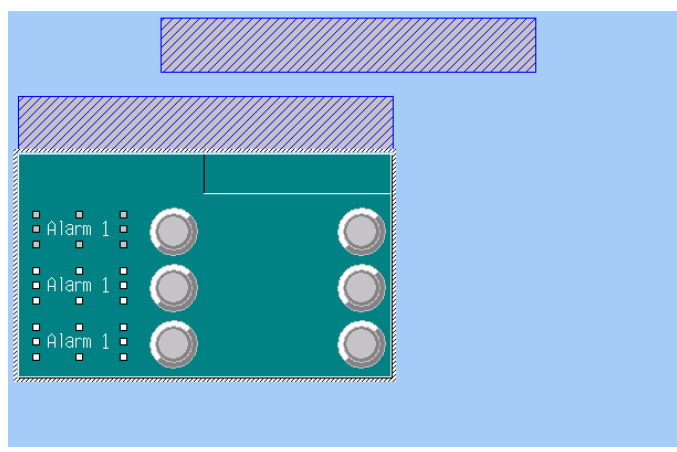
With three labels selected, select as follow:

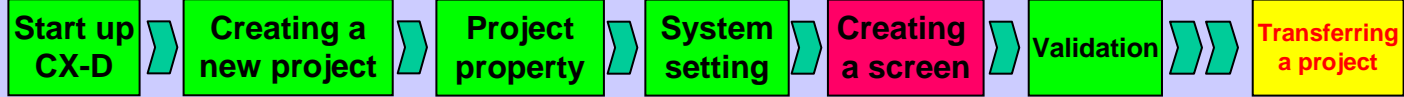
[Edit] menu  
-[Align/Distribution]  
-[Distribute Vertically]



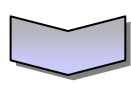
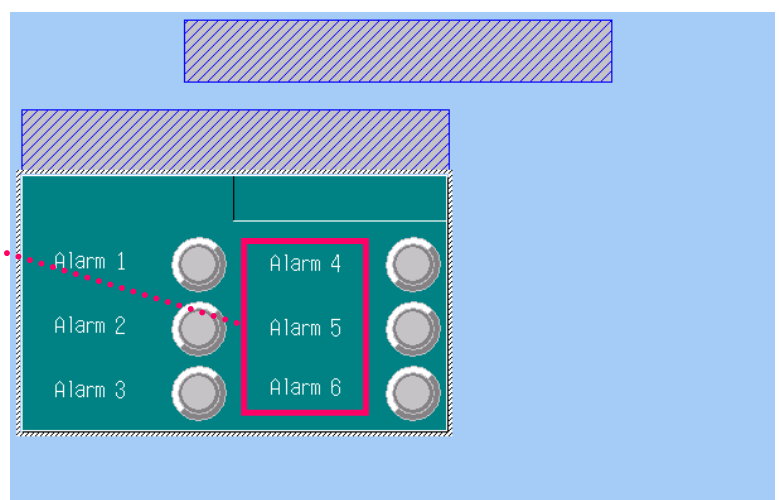
With three labels selected, select as follow:

[Edit] menu  
-[Align/Distribution]  
-[Align Left]

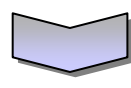
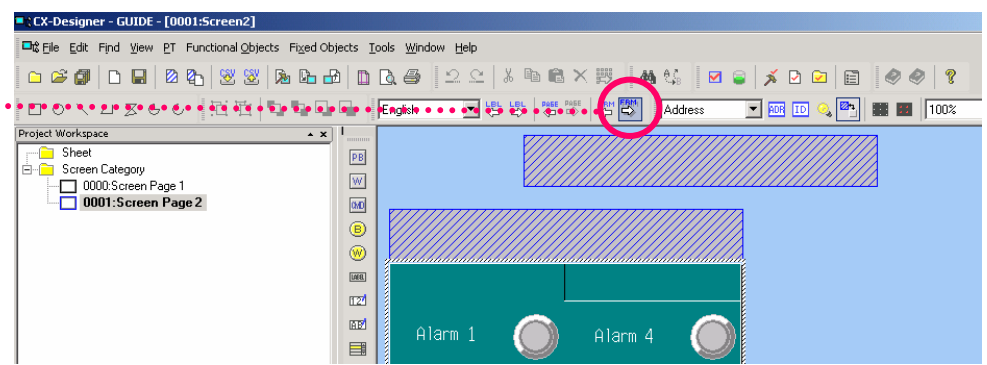




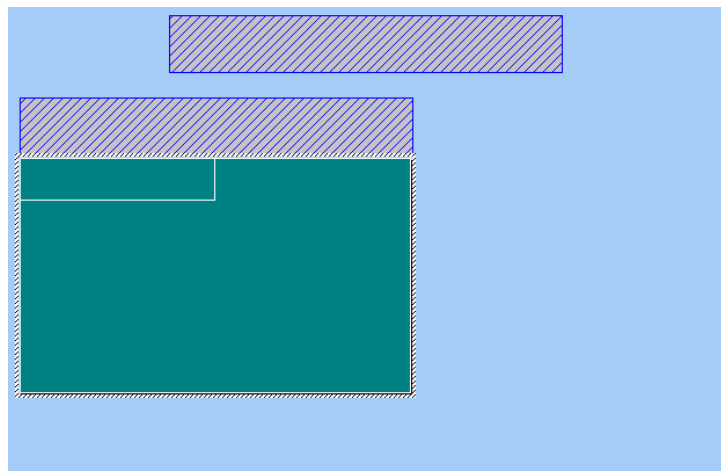
Create labels "Alarm 4 to 6" in the way you created "Alarms 1 to 3".

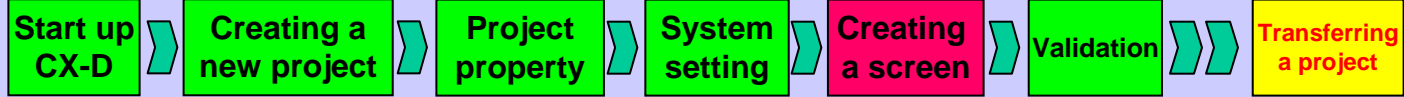


Left-click



The next page of the Frame object (page 1) is displayed.





Create a bit lamp by referring to "12. Bit Lamp".

Set [Display Address 1] from the property list as follow:

Host  
→ [HOST 1]

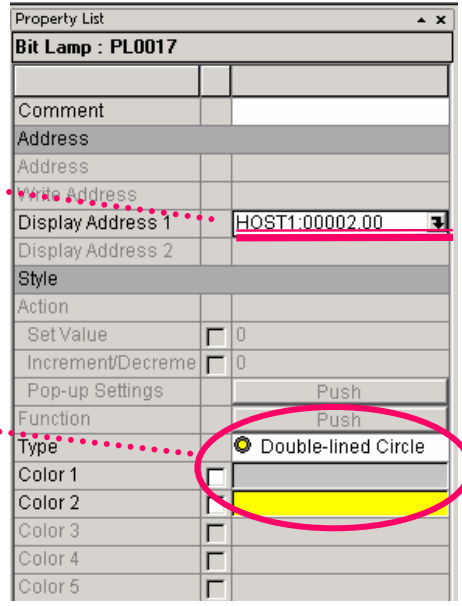
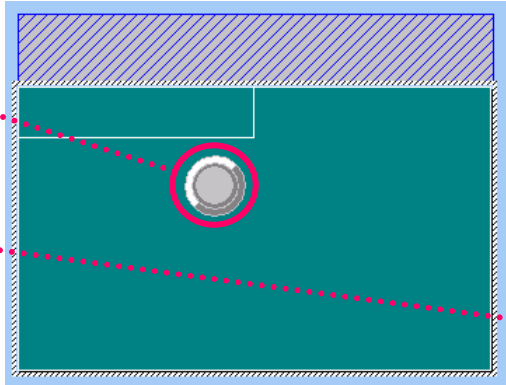
Area  
→ [Common I/O Area (CIO)]

Word  
→ [2]

Bit  
→ [0]

[Type]  
→ Double-lined Circle

Select [Color 1] and [Color 2]



Create 6 bit lamps by referring to "11. Repeat function".

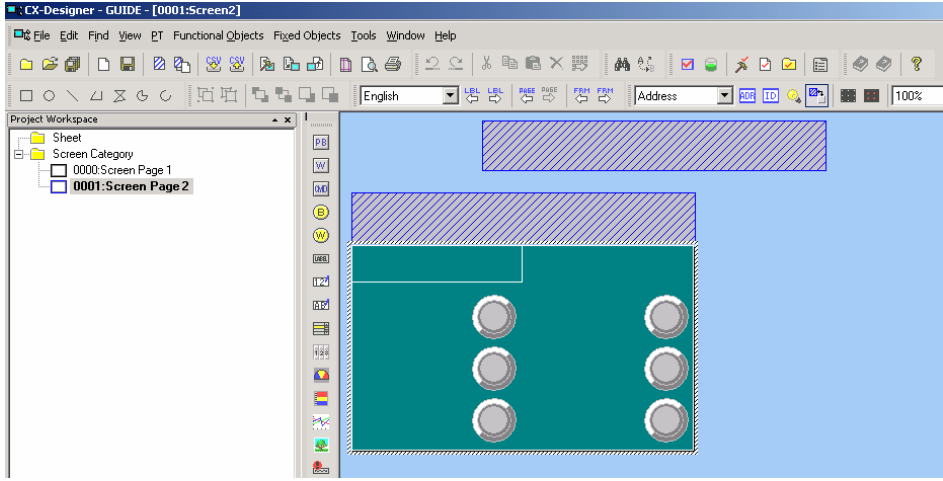
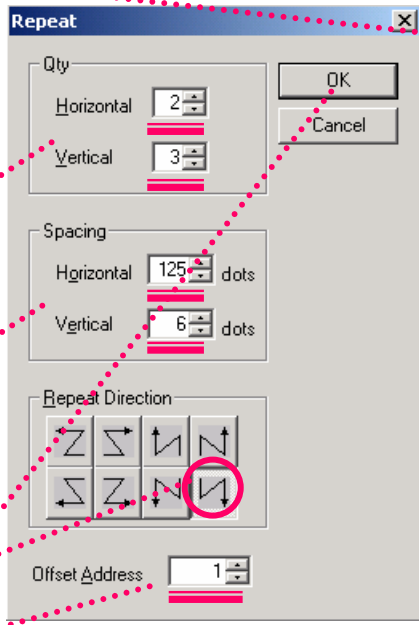
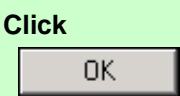
Set as follow:

[Qty]  
Horizontal  
→ "2"  
Vertical  
→ "3"

[Spacing]  
Horizontal  
→ 125"  
Vertical  
→ "6"

Repeat direction

Set "1" to [Offset Address]





Start up  
CX-D

Creating a  
new project

Project  
property

System  
setting

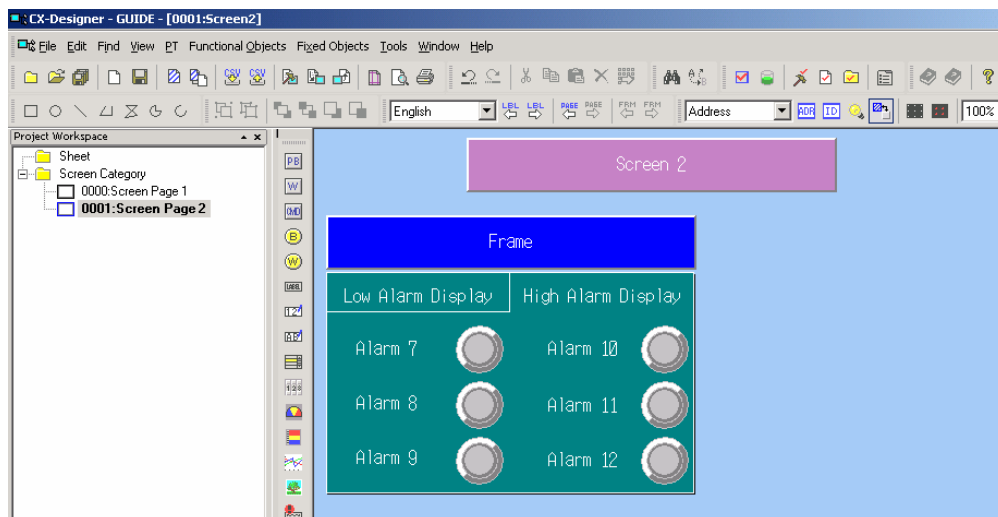
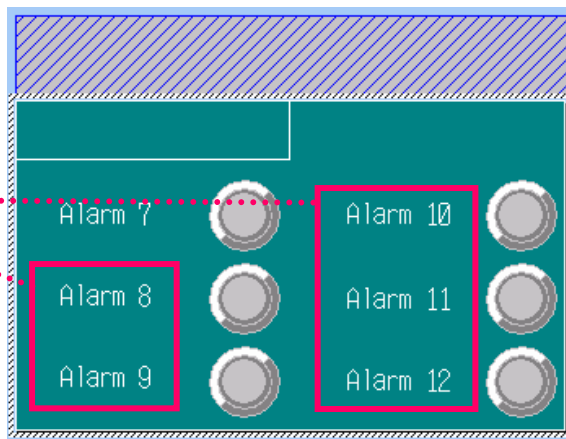
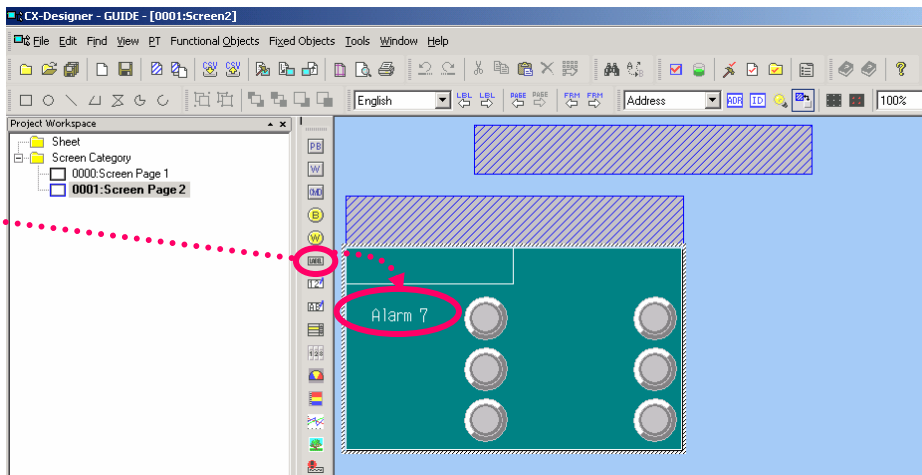
Creating  
a screen

Validation

Transferring  
a project

Create a label as shown on the right by referring to "9. Displaying a Text".

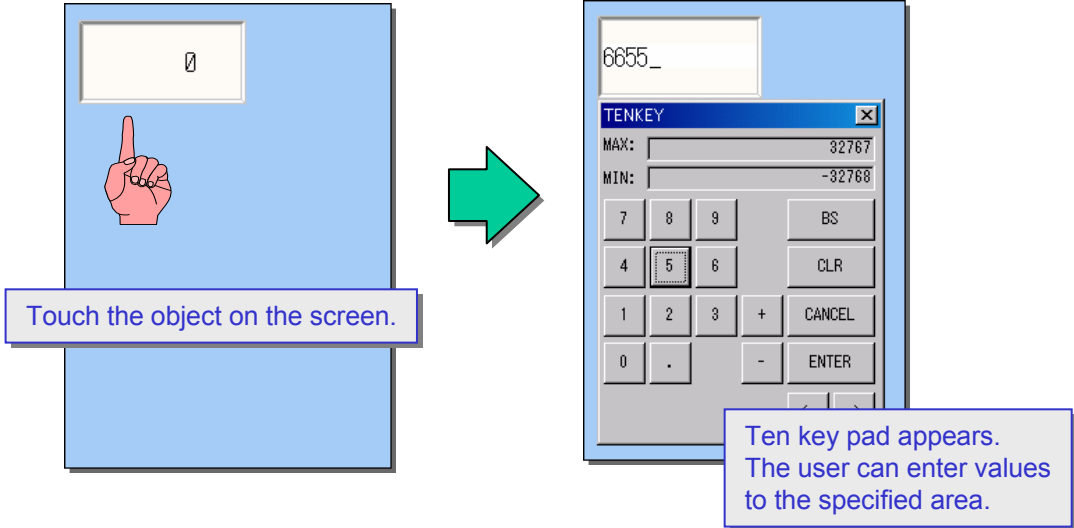
- [Label]  
→ "Alarm 7"
- [Tile Background]  
→ Uncheck it.



Click any area on the screen except frame objects to finish "Edit Inside Group/Frame".

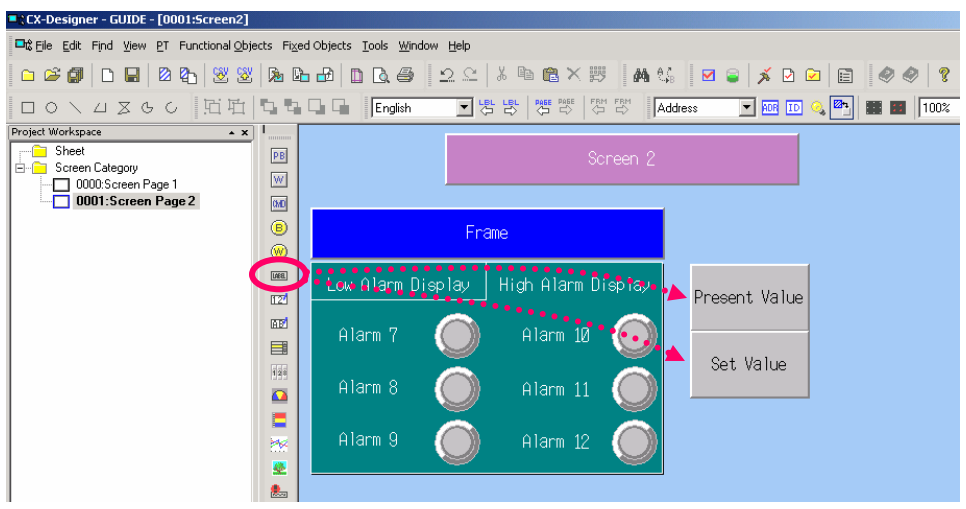
# 15. Numeral Display & Input

Numeral Display & Input is an object that displays data of an address as numeral value and changes data by inputting numeral value from a virtual key board.



Create labels as shown on the right by referring to "9. Displaying a Text".

- Upper [Label] → "Present Value"
- Lower [Label] → "Set Value".



Select the Numeral Display & Input icon



and place it next to the label "Present Value".

Set as follow from the object property list.

- Common tab
- [Enable input] → Uncheck the box.
- [Display] → Uncheck the box.
- [Numeral Display] → Check the box.

- General tab
- [Address] → "HOST 1 DM00100"
- [Display Format] → "Decimal"
- [Storage Format] → "INT (Signed 1 word)"
- [Integer] → "5"
- [Decimal] → "0"

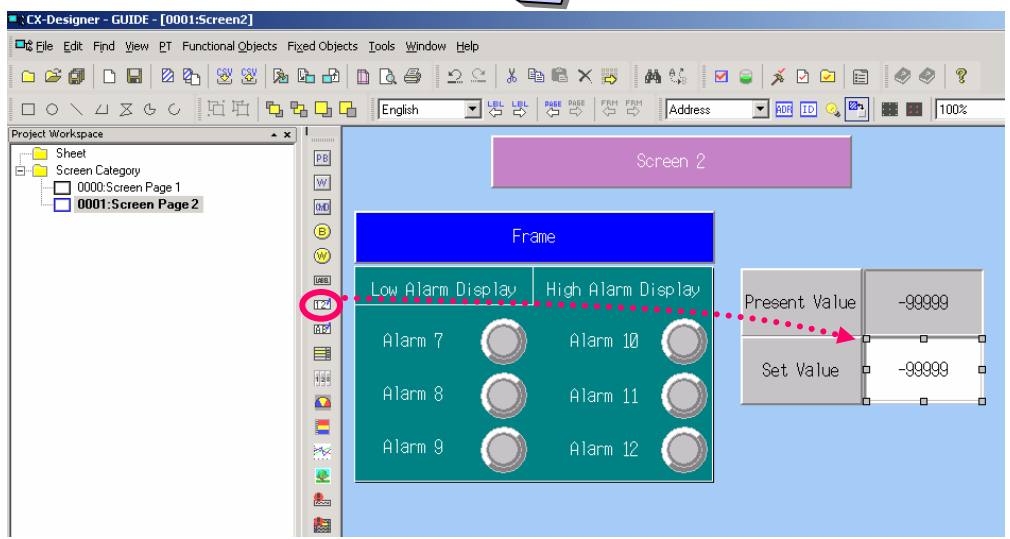
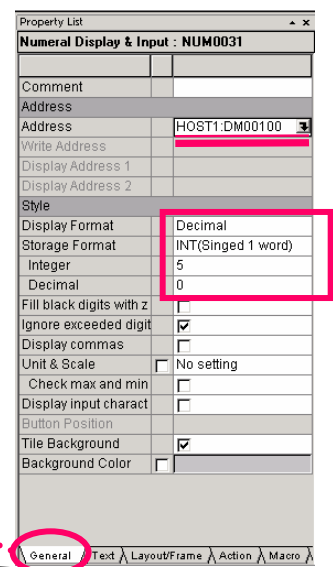
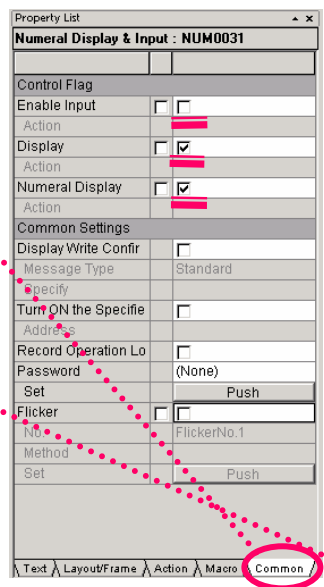
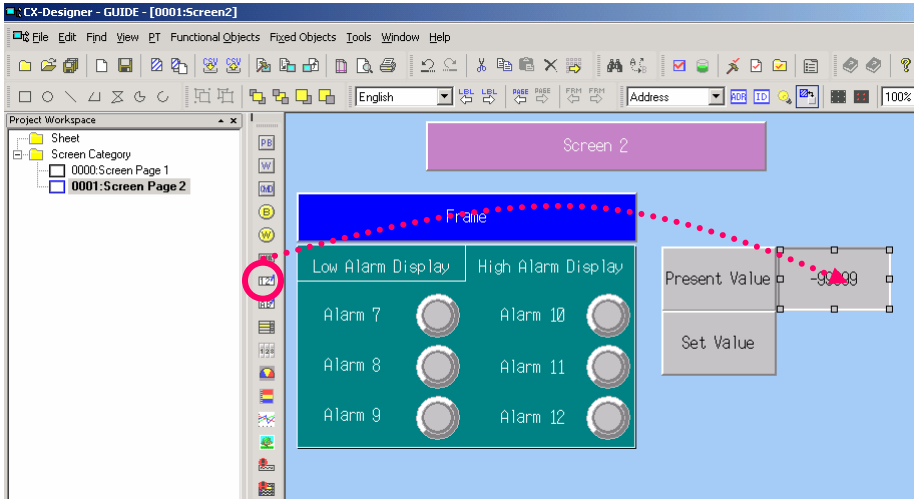
Select the Numeral Display & Input icon from the object list

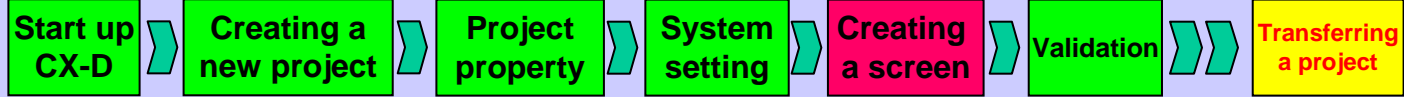


Set as follow from the object property list.

- Common tab
- [Enable Input] → Check the box.

- General tab
- [Address] → "\$W0"
- [Background] → "White"

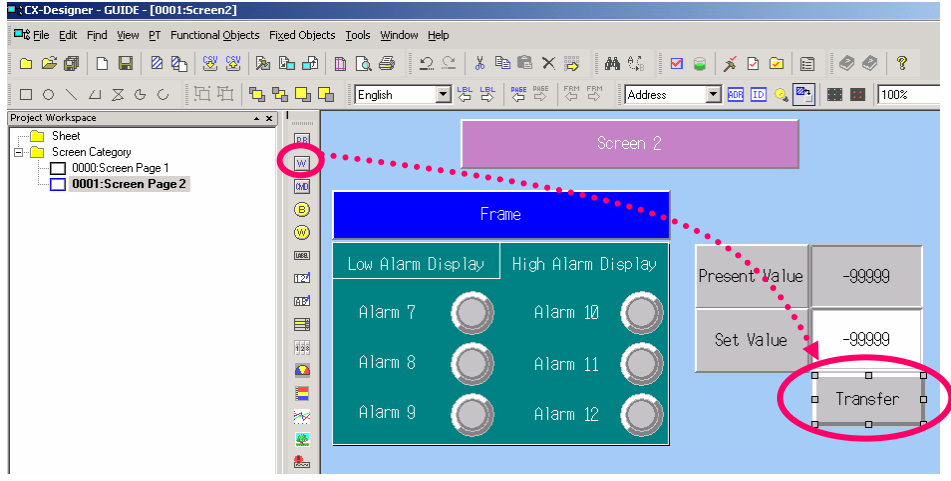




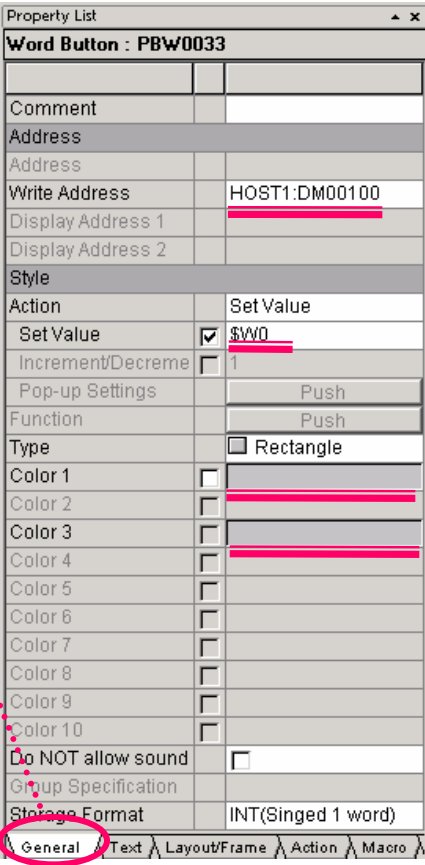
# 16. Word Button

**Using a Word button.**  
 Word button is an object that writes constants to the address (DM etc...) when it is pressed, or increases/decreases the value of the address. It is possible to display a pop-up menu and select the value from constants. In this manual, you will create a word button to write the set value (Internal address) to the present value (PLC address).

Paste a Word button.



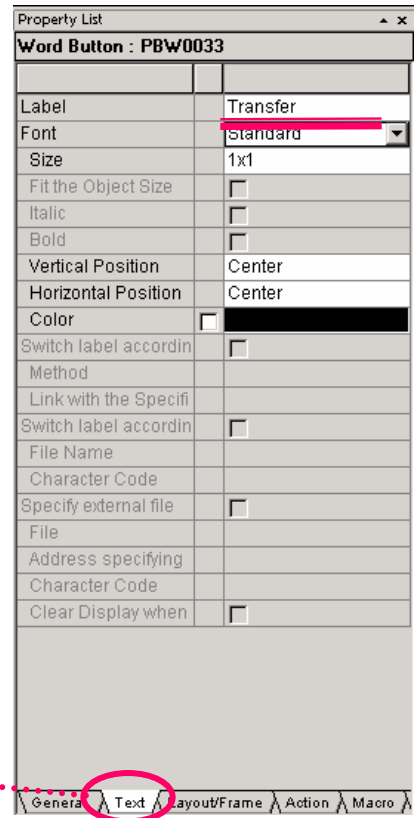
Set as follow on the object property list.

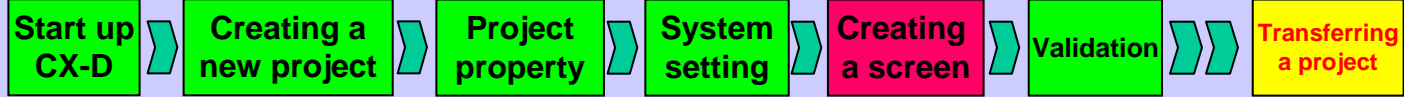


General tab  
 [Address]  
 → "HOST1 DM00100"  
 [Action]  
 → "Set Value"  
 [Set Value]  
 → "\$W0"

Also set [Color 1] and [Color 3].

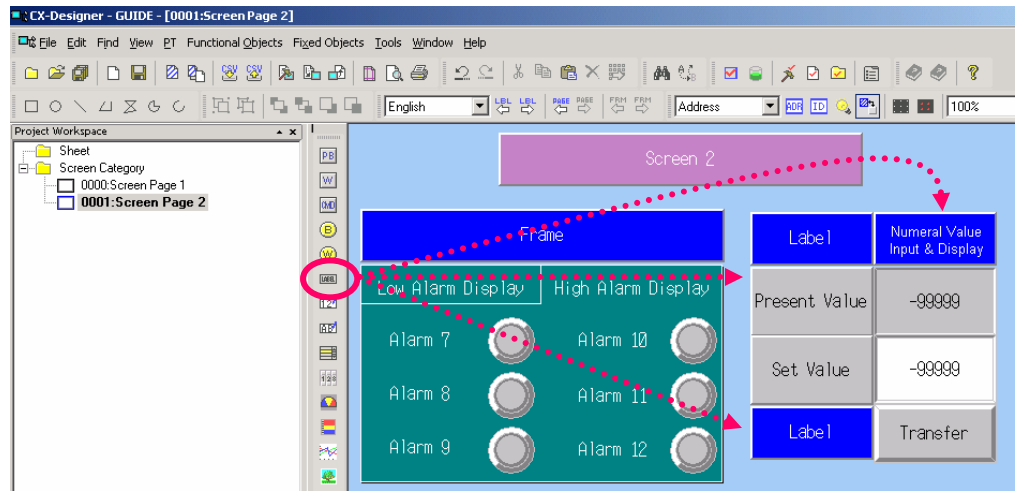
Text tab  
 [Label]  
 → "Transfer"

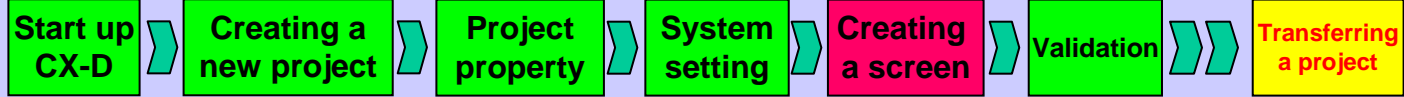




Create three labels by referring to “9. Displaying a Text”.

- [Label] → “Label”
- [Label] → “Numeral Value Input & Display”
- [Label] → “Word Button”





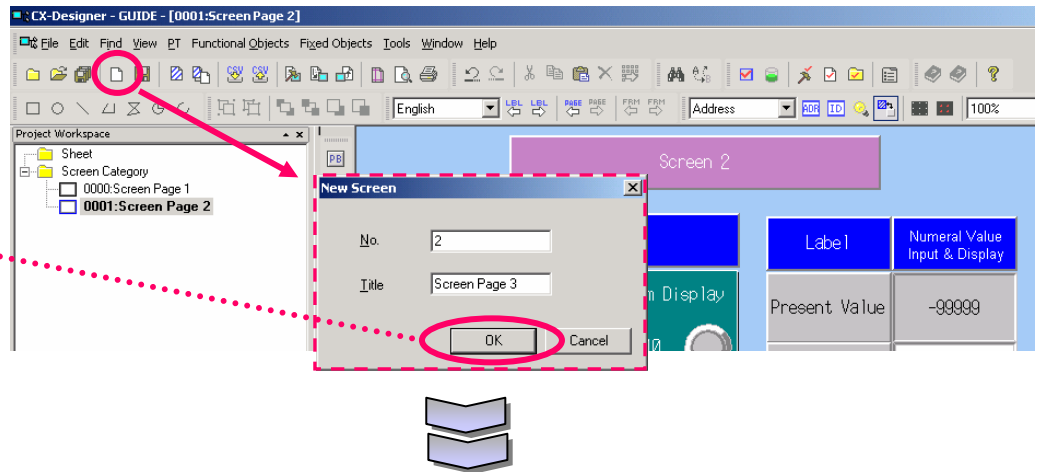
## Creating Third Screen

Create three labels by referring to "13. Add a Screen".

Click

OK

A new screen is created.

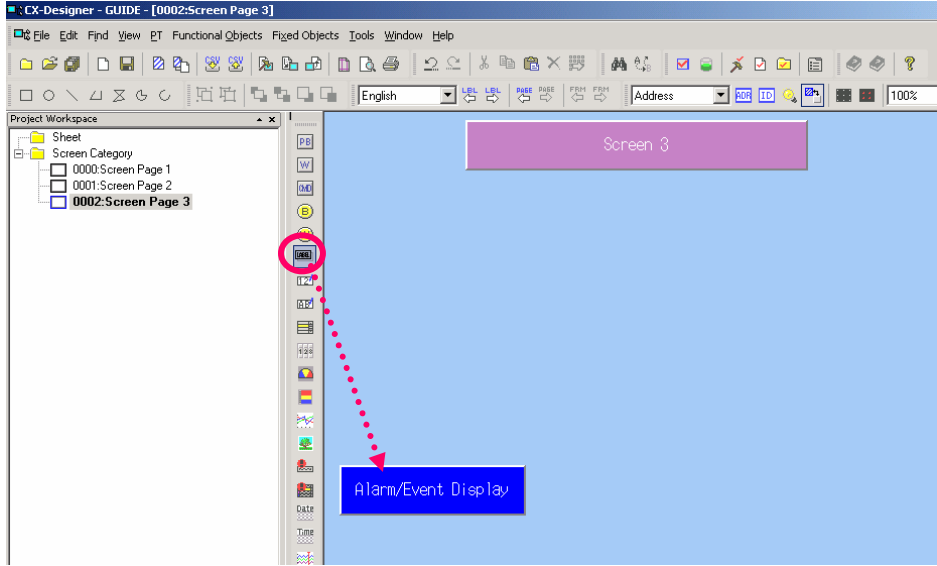


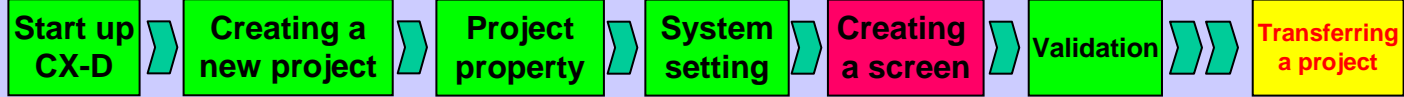
## 17. Alarm/Event Display

**Alarm/Event Summary** is a functional object that displays a current recorded alarm/event in one line. Normally, the highest priority alarm/event is displayed, but it is also possible to display more than one alarm/event occurring at the same time according to the priority by specifying flowing string. In this manual, it is used to display low alarm, high alarm, and running status (event).

Create a label as shown on the right by referring to "9. Displaying a Text".

[Label]  
→ "Alarm/Event Display"





Select the Alarm/Event Display icon



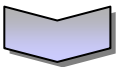
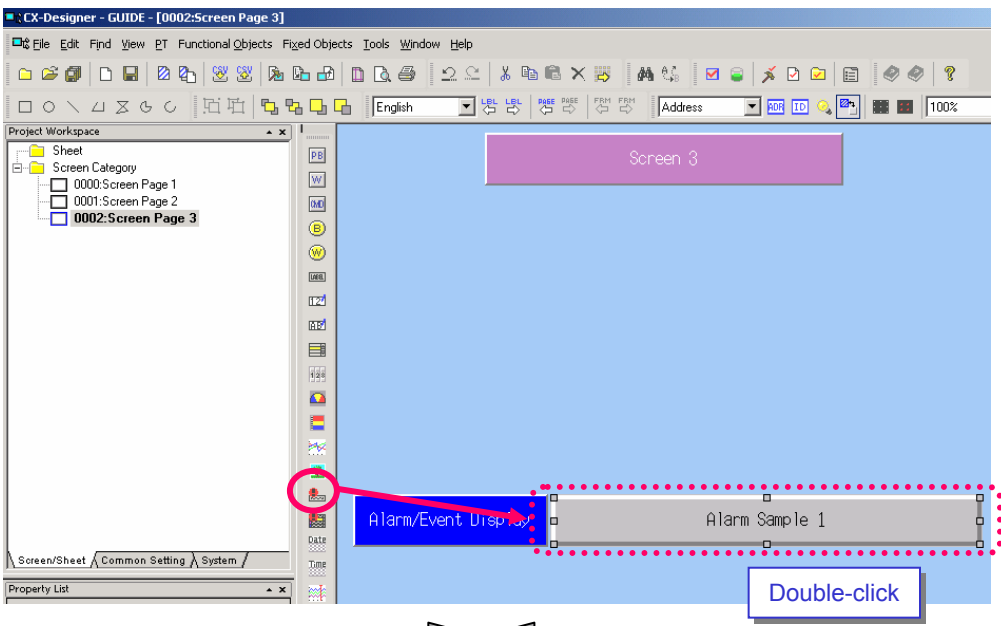
on the list.



Create an Alarm/Event Display where you want it.



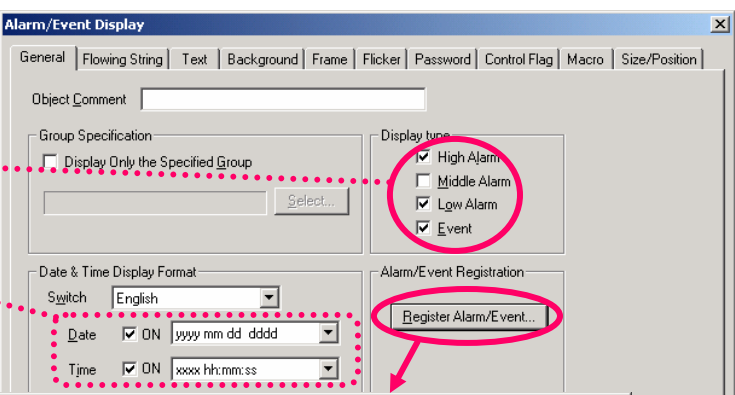
Double-click the object to display its property.



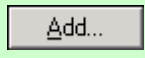
Uncheck "Low Alarm".

Check "Date" and "Time".

Click Register Alarm/Event...



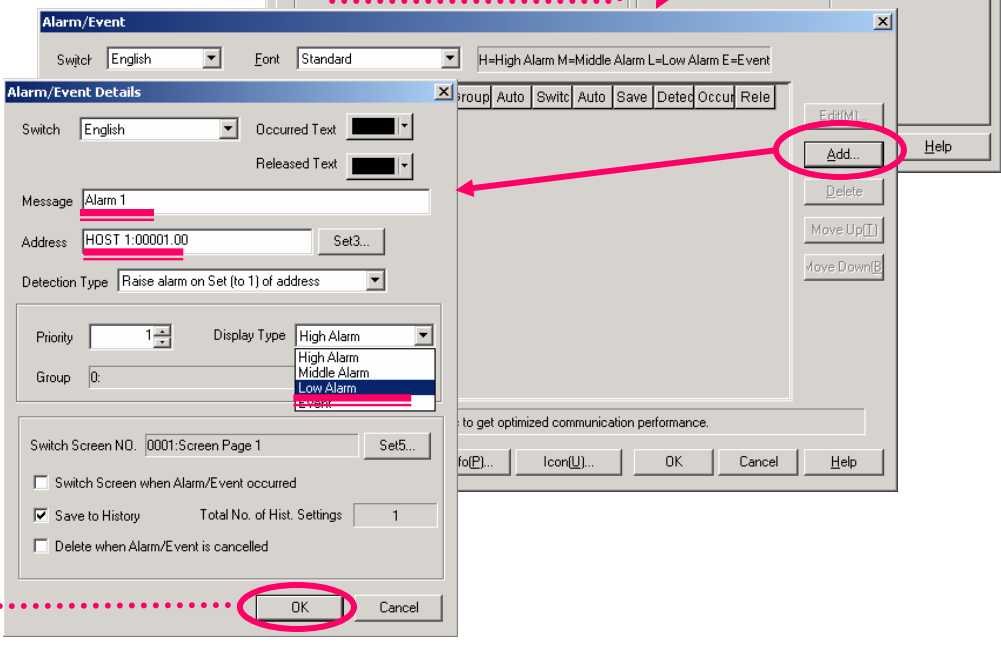
Click



Set as follow:

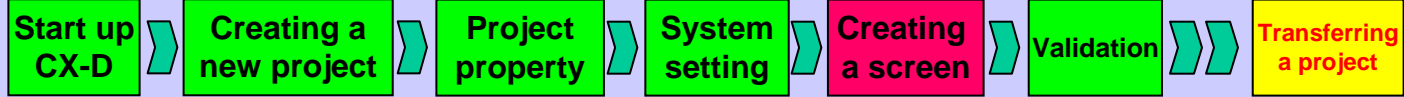
[Message] → "Alarm 1"

[Address] → "Host1:00001.00"



Click





One item of Alarm/Event is created. Edit other items using CSV file import/export function.

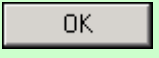
No.	Message	Address	Priority	Display	Group	Auto	Switch	Auto D	Save H	Detect	Occure	Release
1	Alarm 1	HOST1:00001.00	1	L	0	FALSE	0	FALSE	TRUE	Up		

Click Export CSV



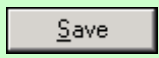
Select "ASCII Code".

Click

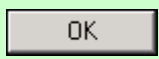


Enter a file name. "GUIDE" is used here.

and click



Click



Read the file saved above with EXCEL. (Select [Data] menu – [Get External Data] – Import Text File...).

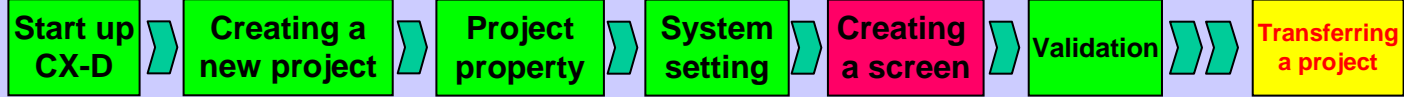
Address	Priority	Display Type	Group No.	Group Name	Auto Switch	Screen	Screen No.	Auto Deletion	Save History	Occurred	Released	Detection	Label/Ala
HOST1:00010.00	1	lowalarm	0		FALSE		0	FALSE	TRUE	0	0	posedge	Alarm 1

Left-click the right bottom of the cell and draw the mouse down while holding it down.

Only the numeral value in the character string is incremented.

1	Address		
2	HOST1:00010.00	1	lowalarm
3	HOST1:00010.01		
4	HOST1:00010.02		
5	HOST1:00010.03		
6	HOST1:00010.04		
7	HOST1:00010.05		
8			
9			





Complete the following table using operation described on the previous page as well as Copy & Paste function.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Address	Priority	Display Ty	Group No.	Group Name	Auto Switc	Screen No	Auto Delet	Save Histo	Occurred	Released	Detection	LabelID	Alarm Message
2	HOST1:001	1	lowalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 1	Alarm 1
3	HOST1:001	1	lowalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 2	Alarm 2
4	HOST1:001	1	lowalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 3	Alarm 3
5	HOST1:001	1	lowalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 4	Alarm 4
6	HOST1:001	1	lowalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 5	Alarm 5
7	HOST1:001	1	lowalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 6	Alarm 6
8	HOST1:001	1	highalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 7	Alarm 7
9	HOST1:001	1	highalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 8	Alarm 8
10	HOST1:001	1	highalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 9	Alarm 9
11	HOST1:001	1	highalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 10	Alarm 10
12	HOST1:001	1	highalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 11	Alarm 11
13	HOST1:001	1	highalarm	0		FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 12	Alarm 12
14	HOST1:001	1	event	0		FALSE	0	FALSE	TRUE	0	0	posedge	Unit 1 Start Running	Unit1 Actief
15	HOST1:001	1	event	0		FALSE	0	FALSE	TRUE	0	0	posedge	Unit 2 Start Running	Unit2 Actief
16	HOST1:001	1	event	0		FALSE	0	FALSE	TRUE	0	0	posedge	Unit 3 Start Running	Unit3 Actief
17	HOST1:001	1	event	0		FALSE	0	FALSE	TRUE	0	0	posedge	Unit 4 Start Running	Unit4 Actief
18	HOST1:001	1	event	0		FALSE	0	FALSE	TRUE	0	0	posedge	Unit 5 Start Running	Unit5 Actief

When you finish editing, save the file.



Go back to work on the CX-Designer.

Click Import CSV

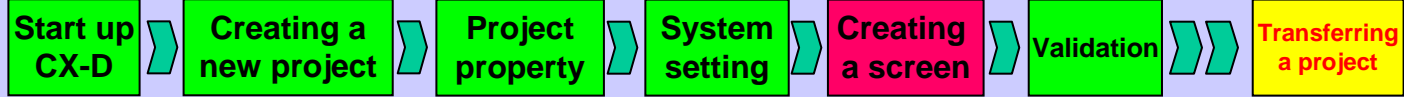
Import CSV...



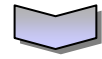
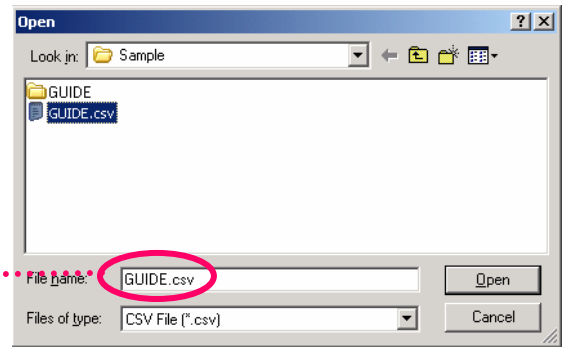
Check "Add to Current Alarm".

Click

Click OK

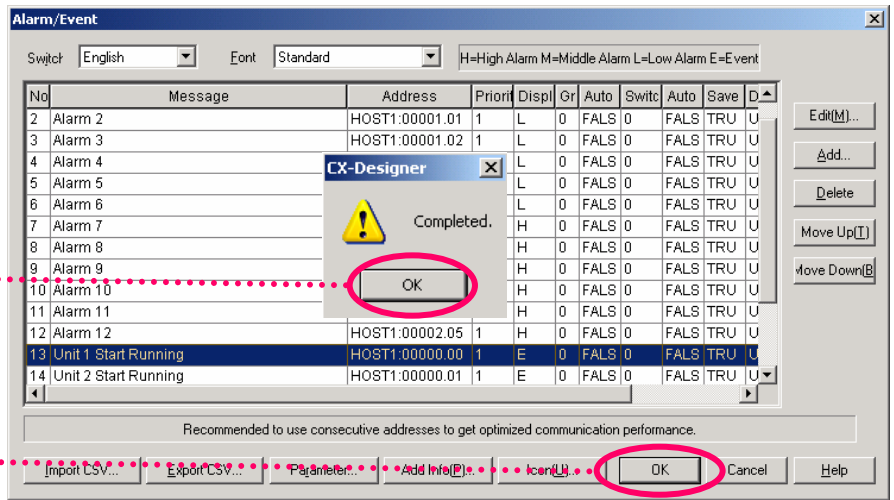


Specify the file name that was saved on the previous page.

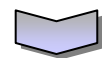
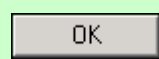


The "Completed" message is displayed to indicate that a file has been read.

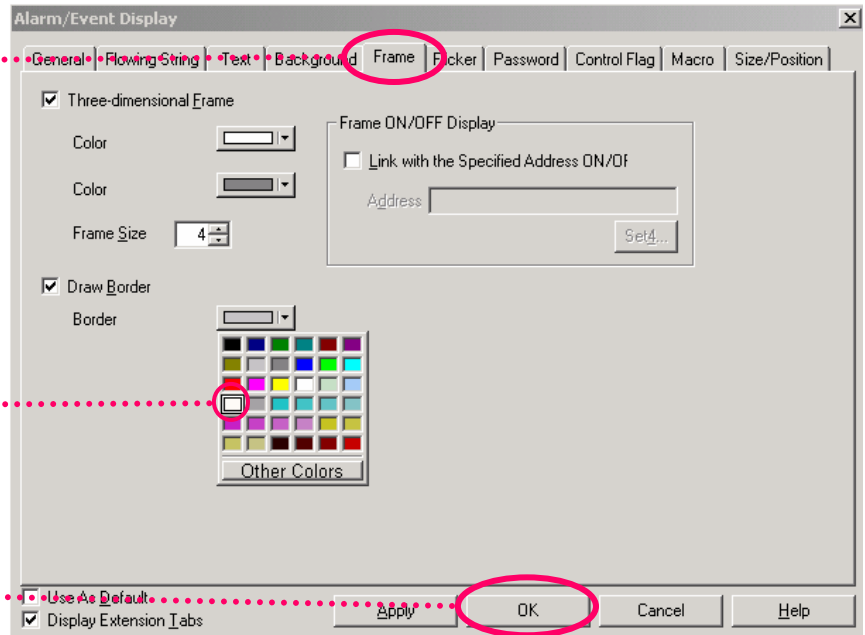
Click



Click

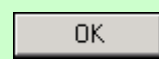


Click the Frame tab.



Select a color.

Click





Start up  
CX-D

Creating a  
new project

Project  
property

System  
setting

Creating  
a screen

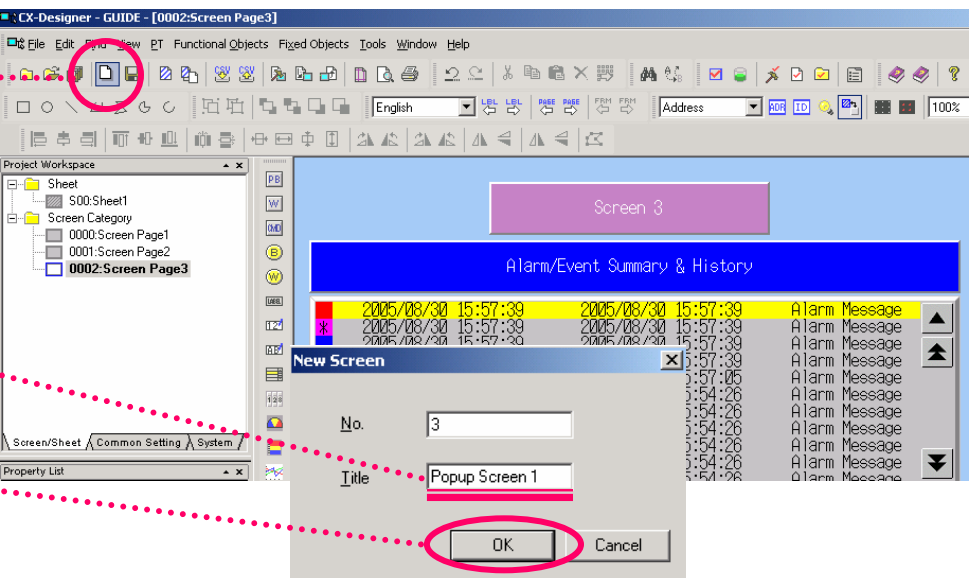
Validation

Transferring  
a project

## 19. Pop-up Screen

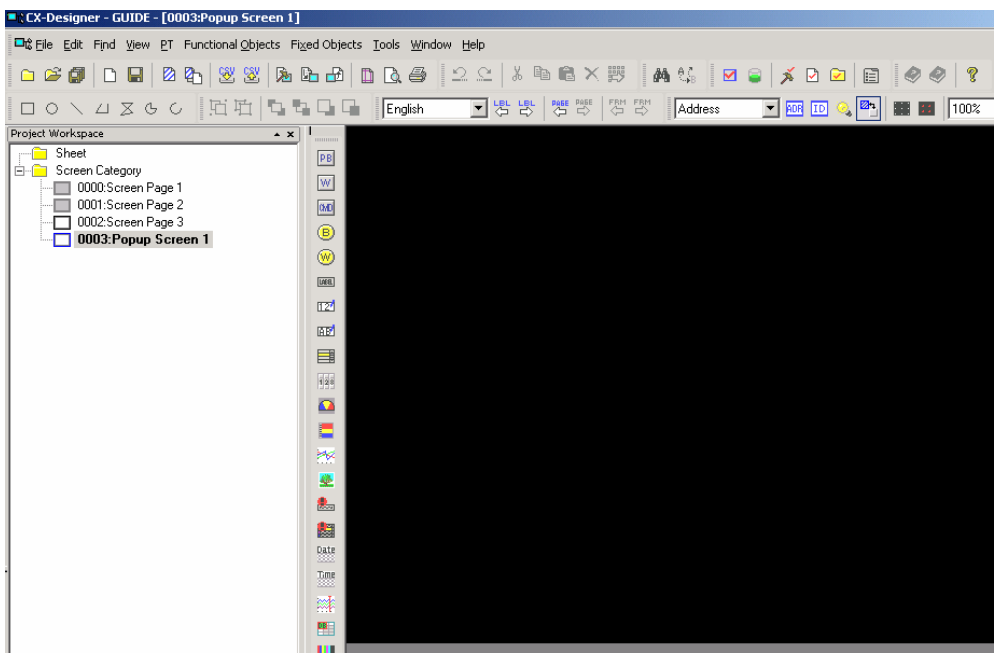
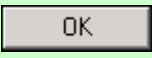
Usually only one screen is displayed on the NS hardware, however, a pop-up screen can be overlapped on the normal screen. In this manual, you will create a button on a pop-up screen to generate/cancel low and high alarms.

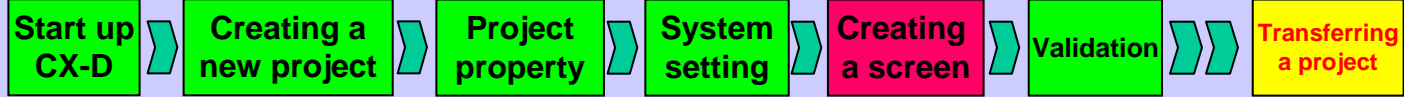
Click the icon to open the New Screen menu.



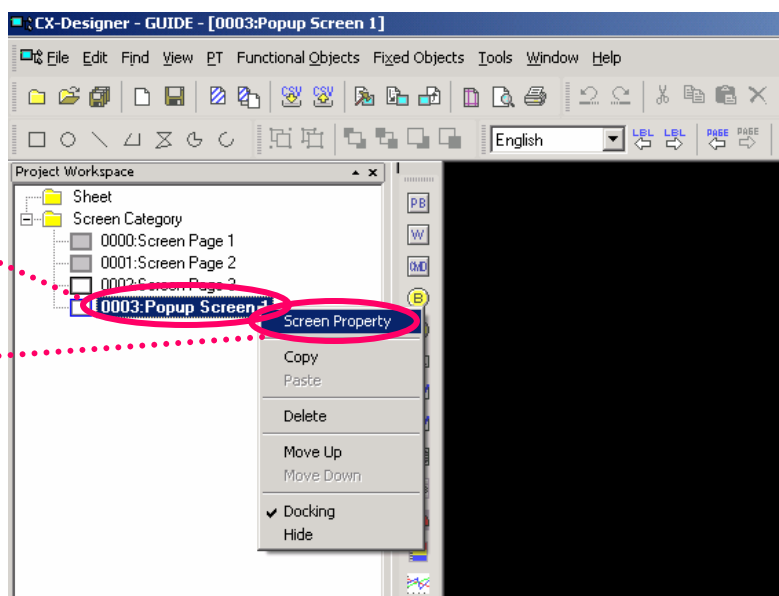
Enter "Pop-up Screen 1" in [Title].

Click



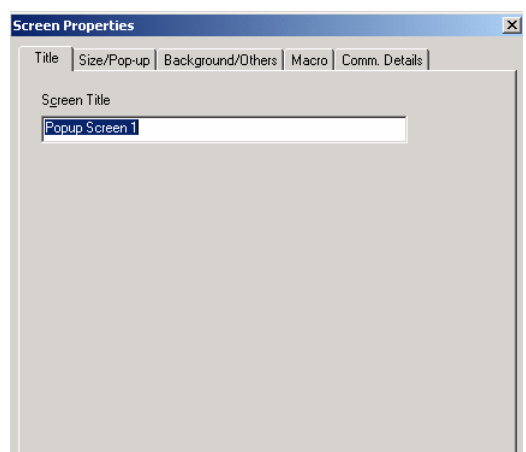


Right-click [0003: Pop-up Screen 1] in the Project Workspace to display the menu.

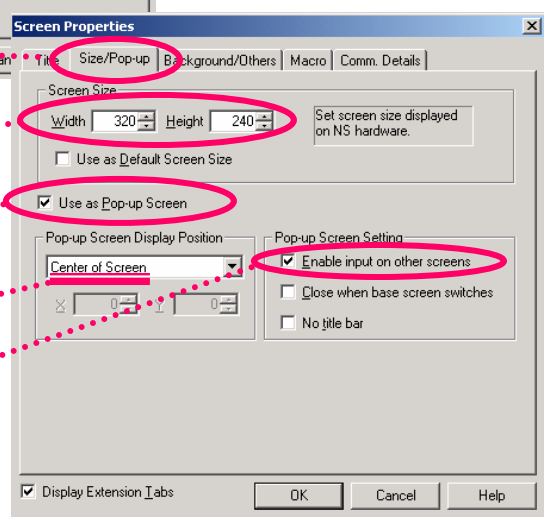


Click "Screen Property" from the menu.

The Screen Property Dialog appears.



Click the [Size/Pop-up] tab.

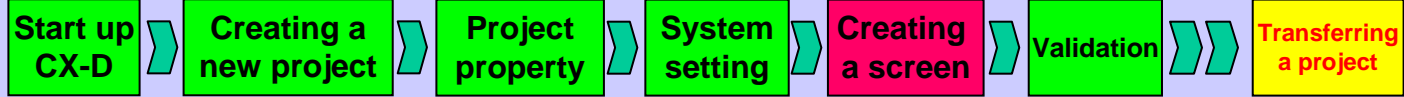


Set screen size as follow:  
 [Width] → "320"  
 [Height] → "240"

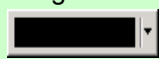
Check "Use as Pop-up Screen".

[Pop-up Screen Display Position] → "Center of Screen"

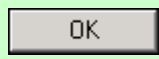
[Pop-up Screen Setting] → Check "Enable input on Other screens".

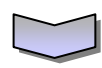
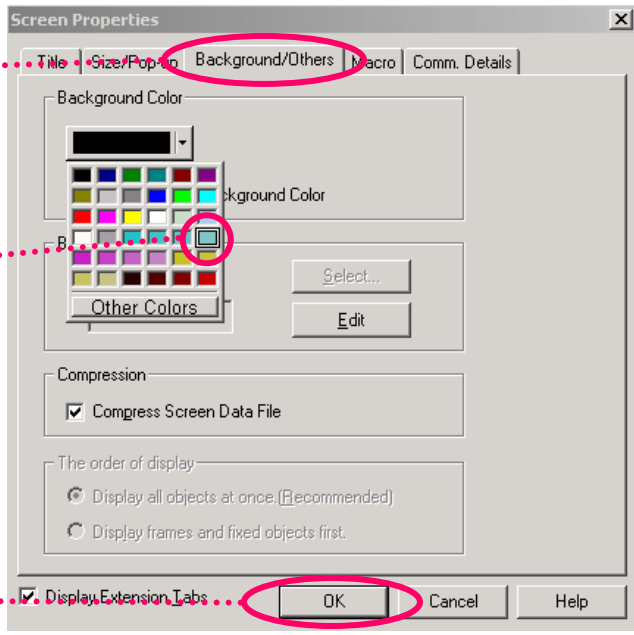


Click the [Background/ Others] tab.

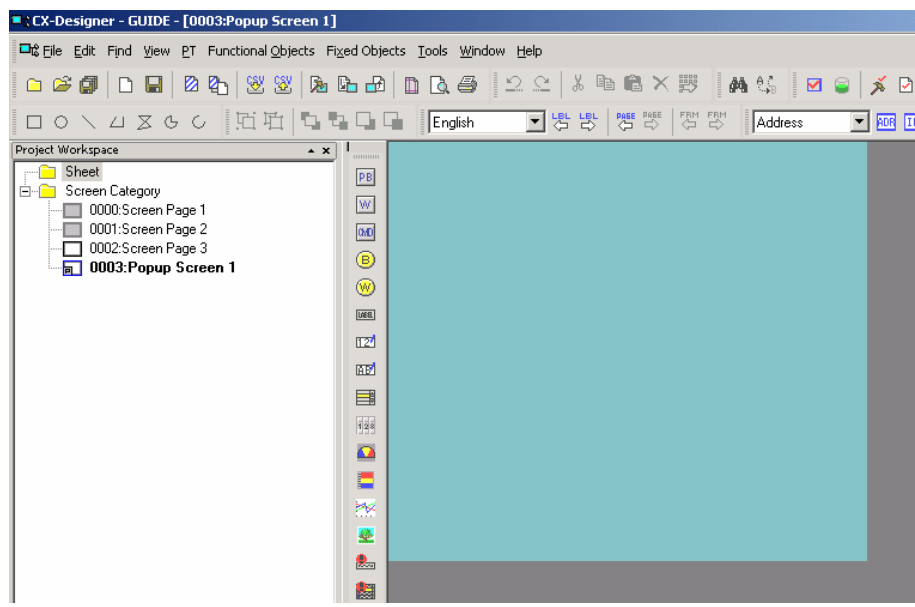
Click Background Color 

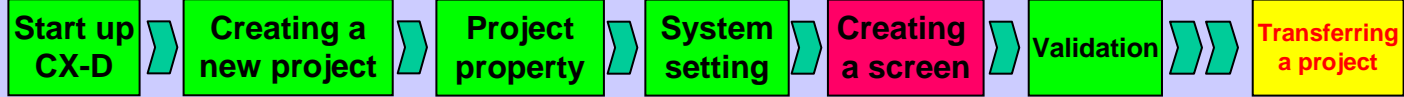
and select a color from the color selection dialog.

Click 



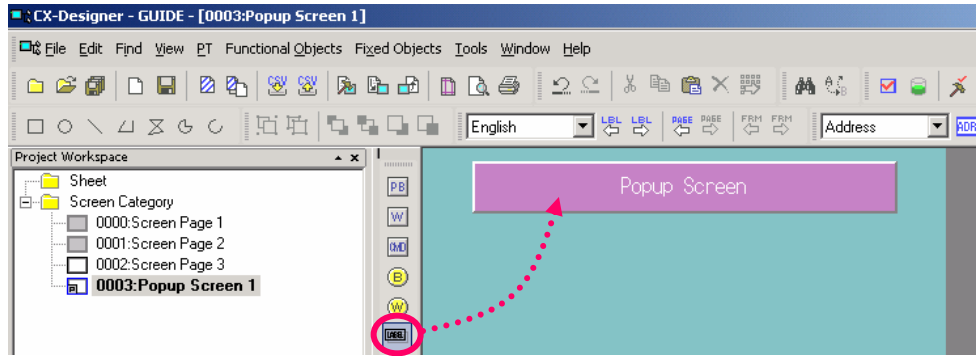
- Screen size set in this property will be the pop-up screen size -





Create a label as shown on the right by referring to "9. Displaying a Text".

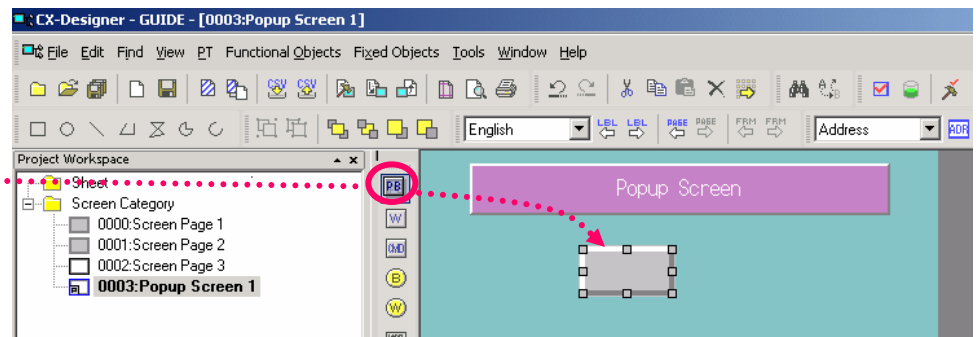
[Label]  
→ "Pop-up Screen"



Select the ON/OFF button



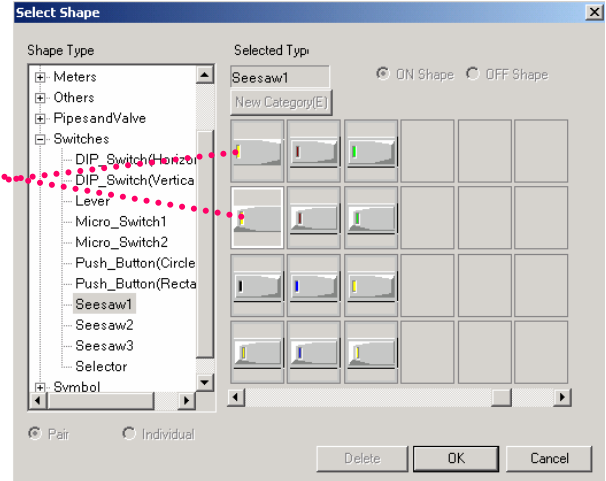
on the list.



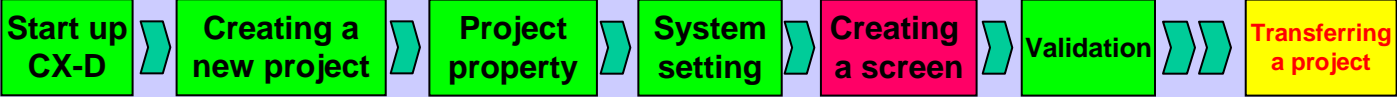
On the object property list, set as follow:

Property List		
ON/OFF Button : PB0001		
Item	Ind	Value
Comment		
<b>Address</b>		
Address		
Write Address		HOST1:00001.00
Display Address 1		
Display Address 2		
<b>Style</b>		
Action		Alternate
Set Value	<input type="checkbox"/>	0
Increment/Decrement	<input type="checkbox"/>	0
Pop-up Setting		Push
Function		Push
Type		Select Shape(Ty
Shape 1		SS1048.VEC
Shape 2		SS1049.VEC
Shape 3		
Shape 4		
Shape 5		
Shape 6		
Shape 7		
Shape 8		
Shape 9		
Shape 10		
Do NOT allow sound	<input type="checkbox"/>	
Group Specification		(None)
Storage Format		

General tab  
[Address]  
→ "HOST1: 00001.00"  
[Action]  
→ "Alternate"  
[Type]  
→ "Select Shape"  
(Type1)  
[Shape 1]  
→ Click to display the Select the Shape dialog box and select a switch.  
[Shape 2]  
→ Click to display the Select Shape dialog box and select a switch.

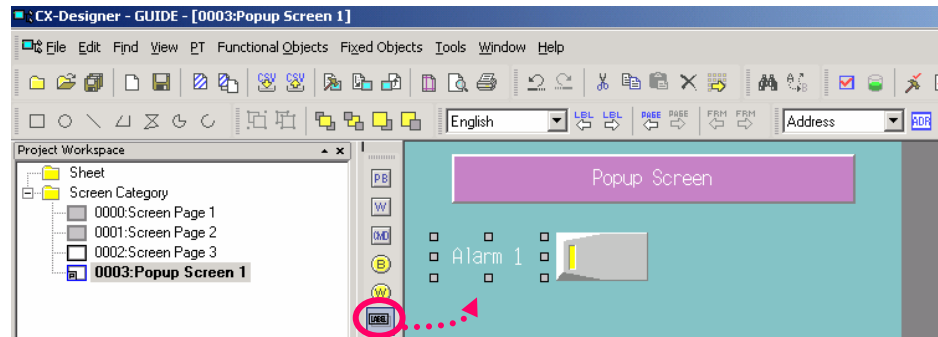


General | Text | LayoutFrame | Action | Macro



Create a label as shown on the right by referring to "9. Displaying a Text".

[Label]  
→ "Alarm 1"

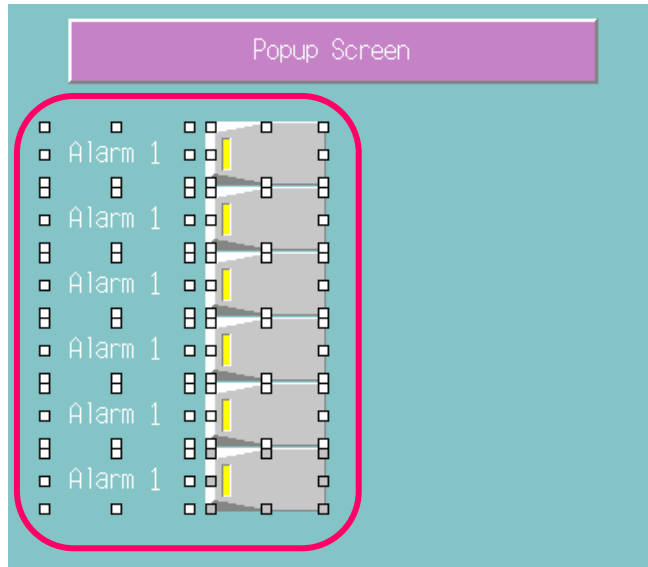


Create six ON/OFF buttons and labels using the Repeat function.

Repeat Function

[Qty]  
Horizontal → "1"  
Vertical → "6"  
[Spacing]  
Horizontal → "0"  
Vertical → "0"  
[Offset Address] → "1"

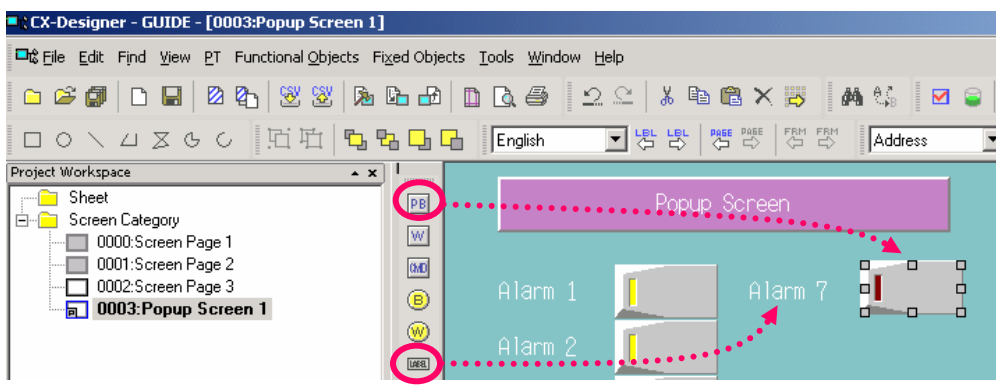
Enter an object label as "Alarm 1" to "Alarm 6" respectively.



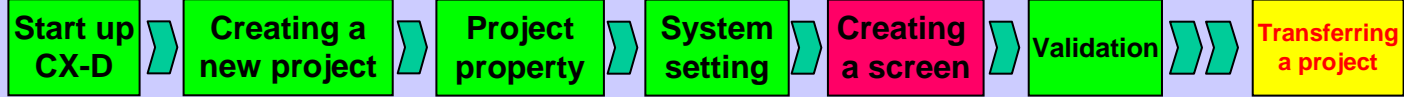
Create an ON/OFF button and label it as "Alarm 7" in the way you made "Alarm 1".

Set the text object property list as follow:



[Label]  
→ "Alarm 7"

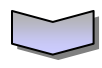
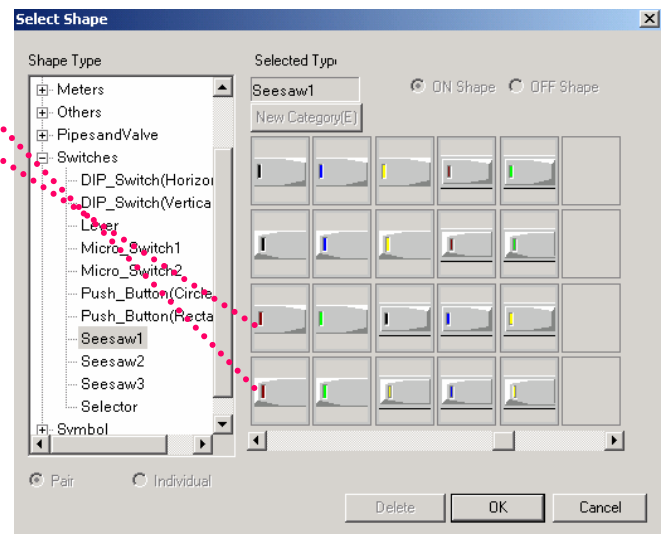
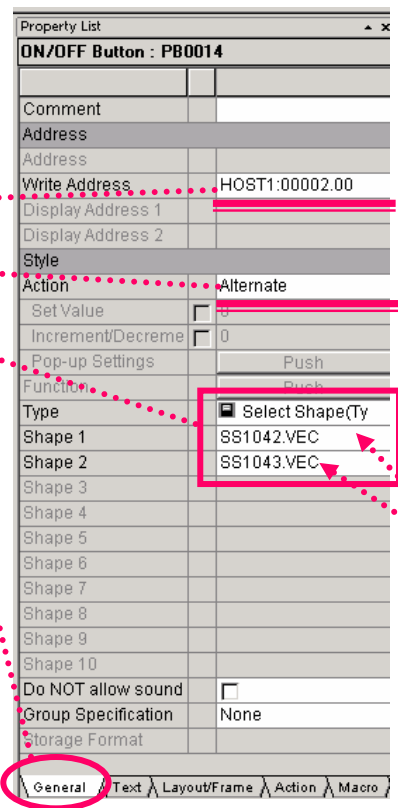






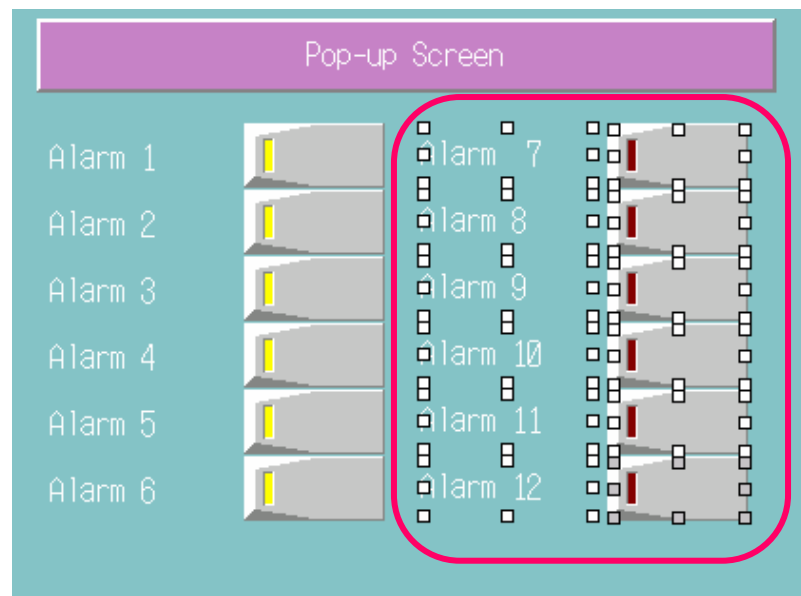
Set the ON/OFF button property list as follow :

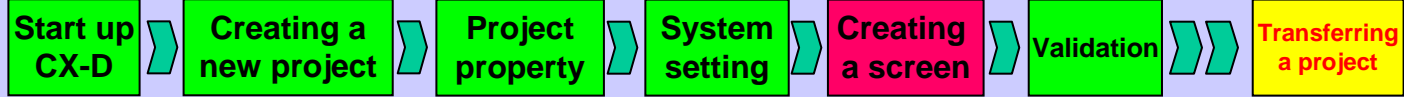
- General tab
- [Address] → "HOST1: 00002.00"
- [Action] → "Alternate"
- [Type] → "Select Shape (Type1)"
- [Shape 1] → Click  to display the Select Shape dialog box and select the switch "SS1042.VEC".
- [Shape 2] → Click  To display the Select Shape dialog box and select the switch "SS1043.VEC"



Create six ON/OFF buttons and labels using the Repeat function.

- Repeat function
- Set as follow:
- [Qty]
  - Horizontal → "1"
  - Vertical → "6"
- [Spacing]
  - Horizontal → "0"
  - Vertical → "0"
- [Offset Address] → "1"
- Enter an object label as "Alarm 7" to "Alarm 12" respectively.

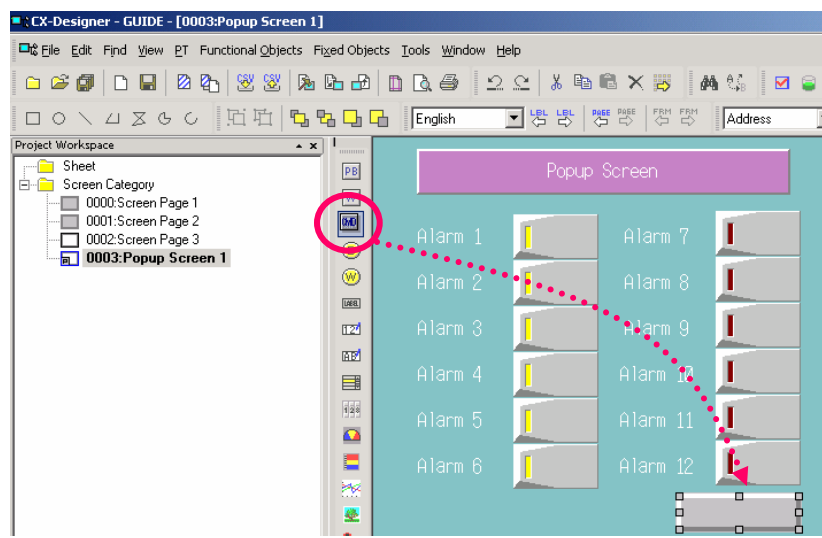




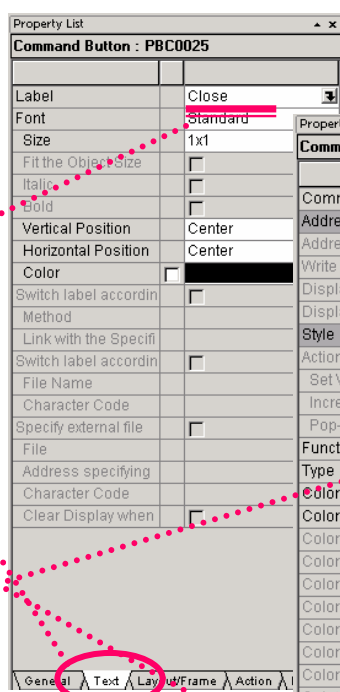
Select the Command button



on the list.



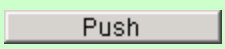
Set the object property list as follow.



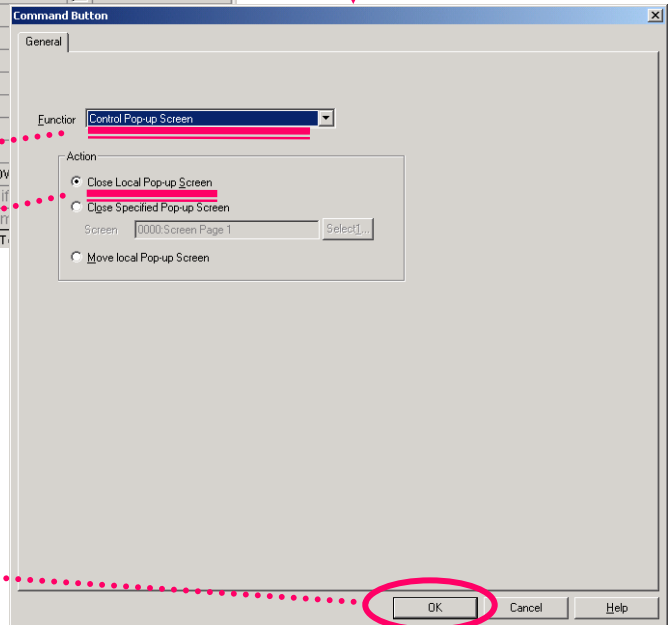
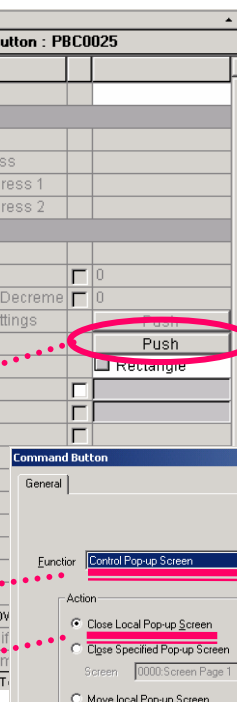
Text tab [Label] → "Close"

General tab [Function]

Click

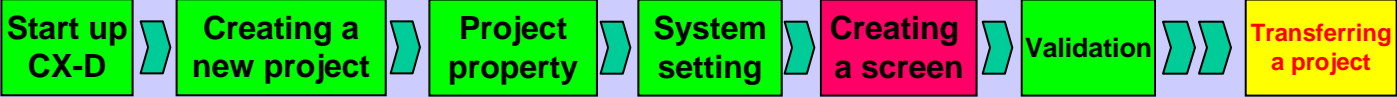


[Function] → "Control Pop-up Screen"  
[Action] → "Close Local Pop-up Screen"



Click



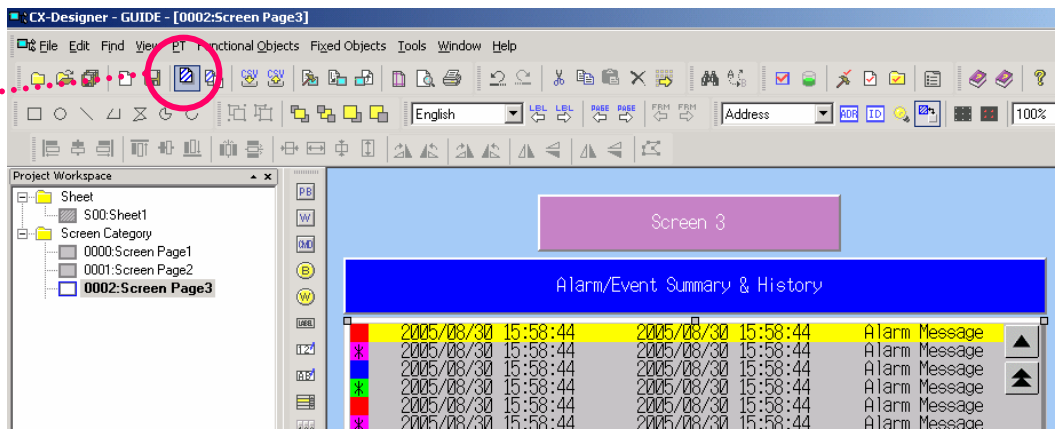


## 20. Sheet

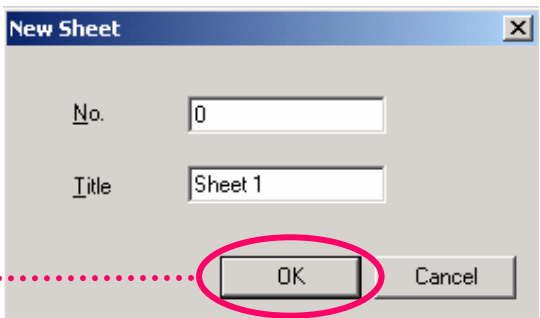
Sheet is a screen that is able to be overlapped on a normal screen and displayed. If you create functional objects on a sheet that you want to use for more than one screen, those objects can be used on all screens applied to the sheet just by setting at [apply sheet].

In this manual, you will create a Switch Label button, a Pop-up Display button, and a Switch Screen button in the sheet, that are commonly used on screens 1 to 3.

Select the Sheet icon.



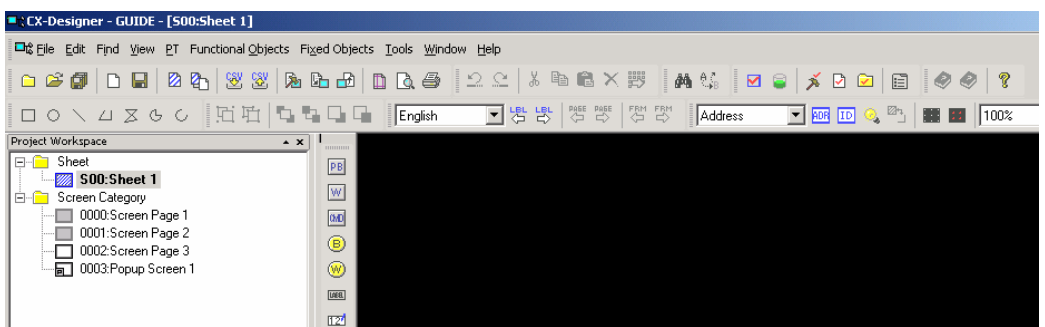
Enter "Sheet 1" in Title.

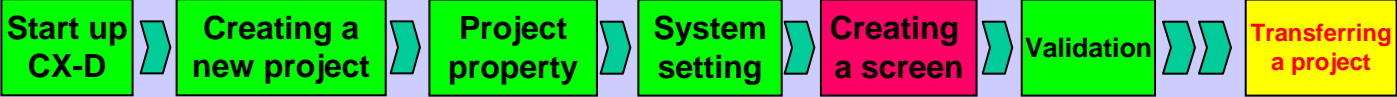


Click



A new sheet is created.





## 21. Word Button/Command Button

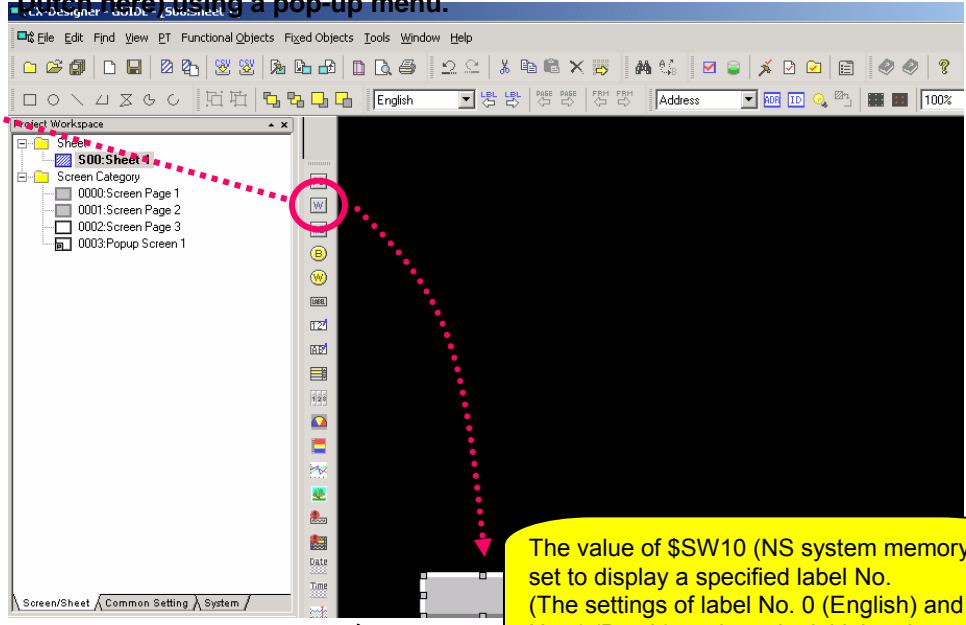
### 21-1 Switch label button

Word button is an object that writes constants to a specified address when it is pressed, or increases/decreases a value of the specified address. It is possible to write a specified value to the item selected from a pop-up menu. In this manual, you will make a button to switch labels (switching English and Dutch here) using a pop-up menu.

Click the Word button



on the list



The value of \$SW10 (NS system memory) is set to display a specified label No. (The settings of label No. 0 (English) and No. 1 (Dutch) made to the initial project property are applied.)

Set as follow in the object property list:  
 General tab  
 [Write Address]  
 → "\$W10"  
 [Action]  
 → "Display Pop-up Menu"

Property List	
<b>Word Button : PBW0000</b>	
Comment	
Address	
Write Address	\$SW10
Display Address 1	
Display Address 2	
Style	
Action	Display Pop-up Menu
Set Value	<input type="checkbox"/> Set Value
Increment/Decrease	<input type="checkbox"/> Increment/Decrease
Pop-up Settings	Display Pop-up Menu
Function	Push
Type	<input type="checkbox"/> Rectangle
Color 1	<input type="checkbox"/>
Color 2	<input type="checkbox"/>
Color 3	<input type="checkbox"/>
Color 4	<input type="checkbox"/>
Color 5	<input type="checkbox"/>
Color 6	<input type="checkbox"/>
Color 7	<input type="checkbox"/>
Color 8	<input type="checkbox"/>
Color 9	<input type="checkbox"/>
Color 10	<input type="checkbox"/>
Do NOT allow sound	<input type="checkbox"/>
Group Specification	
Storage Format	INT(Singed 1 word)
General   Text   Layout/Frame   Action   Macro   Co	

Click the Push button of the Pop-up Settings on the General tab.

Property List	
<b>Word Button : PBW0000</b>	
Comment	
Address	
Write Address	\$SW10
Display Address 1	
Display Address 2	
Style	
Action	Display Pop-up Menu
Set Value	<input type="checkbox"/> 0
Increment/Decrease	<input type="checkbox"/> 1
Pop-up Settings	Push
Function	Push
Type	<input type="checkbox"/> Rectangle
Color 1	<input type="checkbox"/>
Color 2	<input type="checkbox"/>
Color 3	<input type="checkbox"/>
Color 4	<input type="checkbox"/>
Color 5	<input type="checkbox"/>
Color 6	<input type="checkbox"/>
Color 7	<input type="checkbox"/>
Color 8	<input type="checkbox"/>
Color 9	<input type="checkbox"/>
Color 10	<input type="checkbox"/>
Do NOT allow sound	<input type="checkbox"/>
Group Specification	
Storage Format	INT(Singed 1 word)
General   Text   Layout/Frame   Action   Macro   Co	

Start up  
CX-D

Creating a  
new project

Project  
property

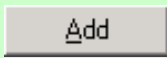
System  
setting

Creating  
a screen

Validation

Transferring  
a project

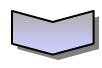
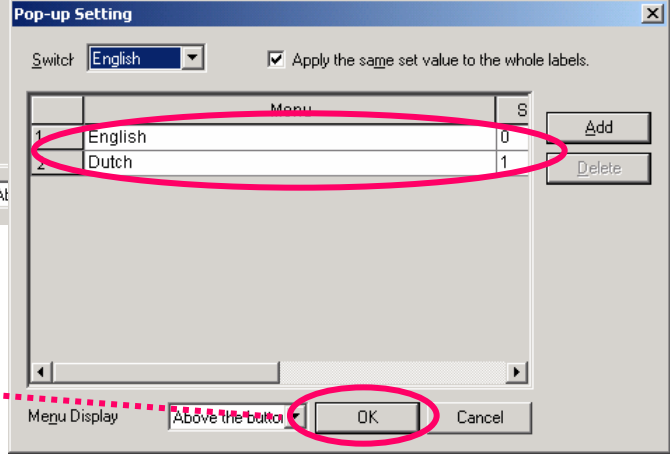
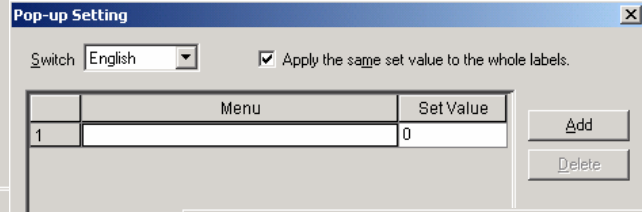
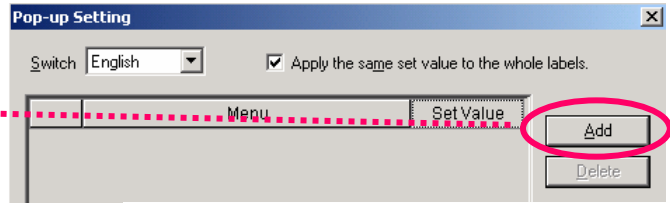
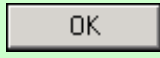
Click

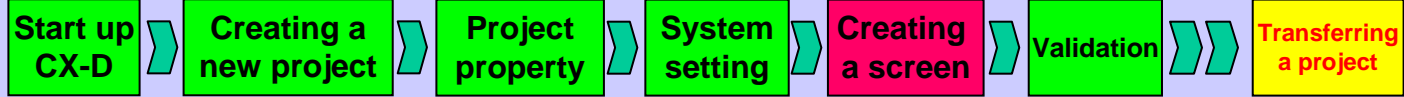


Add the following  
settings in the Pop-up  
settings:

- [1]  
[Menu] → "English"  
[Set Value] → "0"
- [2]  
[Menu] → "Dutch"  
[Set Value] → "1"

Click





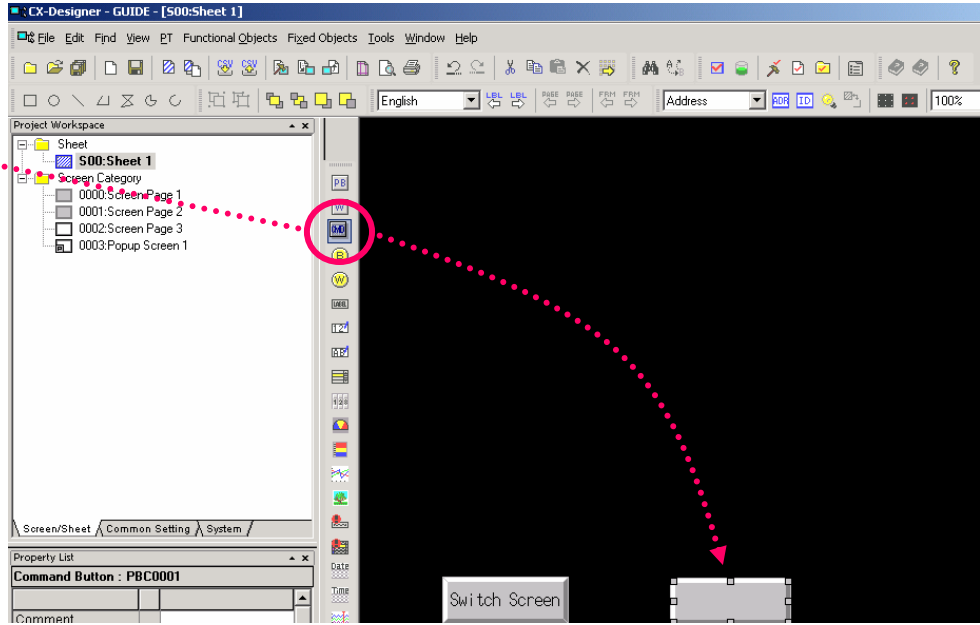
21-2 Switch screen button

Using a command button.  
 Command button is a object to switch screens and send a string code.  
 In this manual, it is used to switch the virtual alarm pop-up screen and screens 1 to 3. Create a command button to display the pop-up screen on the sheet created on the previous page.

Click the Command button



on the list



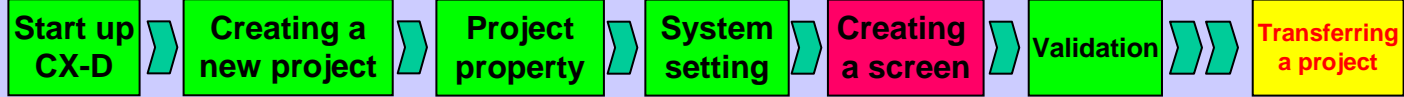
Set as follow on the object property list:

Text tab  
 [Label]  
 → "Virtual Alarm Display"

Property List	
Command Button : PBC0001	
Label	Virtual Alarm
Font	Standard
Size	1x1
Fit the Object Size	<input type="checkbox"/>
Italic	<input type="checkbox"/>
Bold	<input type="checkbox"/>
Vertical Position	Center
Horizontal Position	Center
Color	<input type="checkbox"/>
Switch label according to	<input type="checkbox"/>
Method	
Link with the Specific	
Switch label according to	<input type="checkbox"/>
File Name	
Character Code	
Specify external file	<input type="checkbox"/>
File	
Address specifying	
Character Code	
Clear Display when	<input type="checkbox"/>

Click the Push button of [Function] on the General tab.

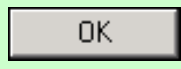
Property List	
Command Button : PBC0001	
Comment	
Address	
Address	
Write Address	
Display Address 1	
Display Address 2	
Style	
Action	
Set Value	<input type="checkbox"/> 0
Increment/Decrement	<input type="checkbox"/> 0
Pop-up Settings	<input type="checkbox"/> Push
Function	<input type="checkbox"/> Push
Type	<input type="checkbox"/> Rectangle
Color 1	<input type="checkbox"/>
Color 2	<input type="checkbox"/>
Color 3	<input type="checkbox"/>
Color 4	<input type="checkbox"/>
Color 5	<input type="checkbox"/>
Color 6	<input type="checkbox"/>
Color 7	<input type="checkbox"/>
Color 8	<input type="checkbox"/>
Color 9	<input type="checkbox"/>
Color 10	<input type="checkbox"/>
Do NOT allow sound	<input type="checkbox"/>
Group Specification	
Storage Format	



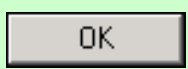
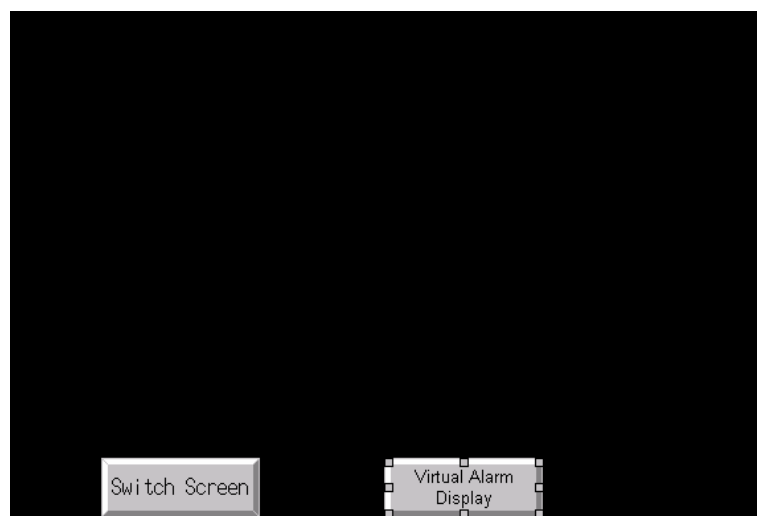
Click the [Select] button.

The Screen List dialog appears. Select "Pop-up 1" and

Click



Click

Start up  
CX-D

Creating a  
new project

Project  
property

System  
setting

Creating  
a screen

Validation

Transferring  
a project

Create a screen switching button (CMD button) labeled as Screen 1 to Screen 3 in the way you made "Virtual Alarm Display".

Click the PUSH button on the right side of [Function] to display the dialog. Set each button as follow:

[Screen 1]  
[Specified Screen]  
→ "0000: Screen 1"

[Screen 2]  
[Specified Screen]  
→ "0001: Screen 2"

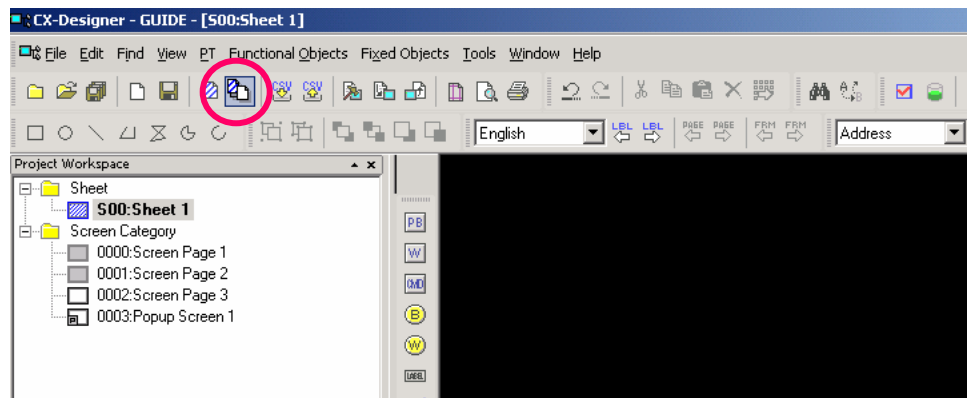
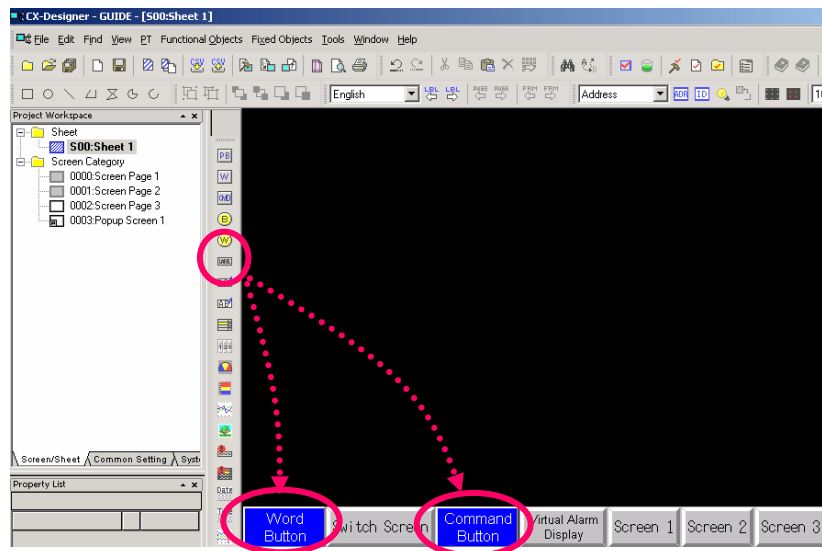
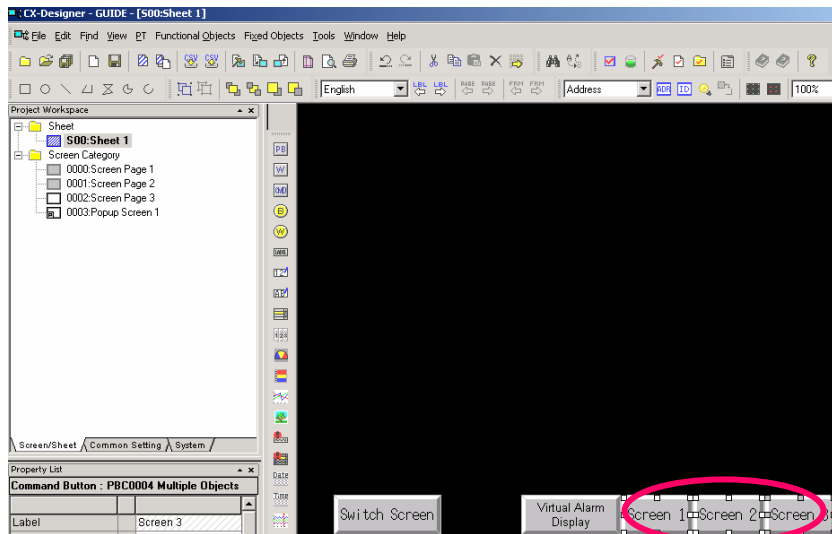
[Screen 3]  
[Specified Screen]  
→ "0002: Screen 3"

Create two labels as shown on the right by referring to "9. Displaying a Text".

[Label]  
→ "Word Button"

[Label]  
→ "Command Button"

Click the Apply  
Sheet button.





Start up  
CX-D

Creating a  
new project

Project  
property

System  
setting

Creating  
a screen

Validation

Transferring  
a project

Screen No.

Sheet No.

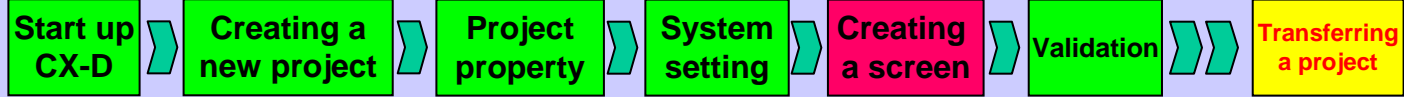
Screen No.	0	1	2	3	4	5	6	7	8	9	Title
0000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Screen Page 1
0001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Screen Page 2
0002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Screen Page 3
0003	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Popup Screen 1 *

Check the Sheet No. 0 boxes to all of the Screen No. 0000 to 0003.

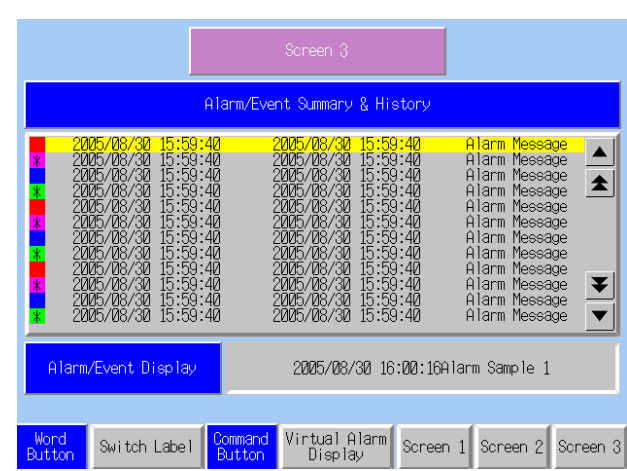
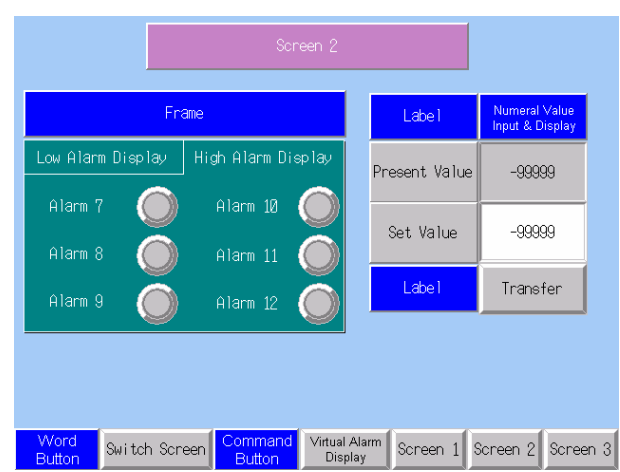
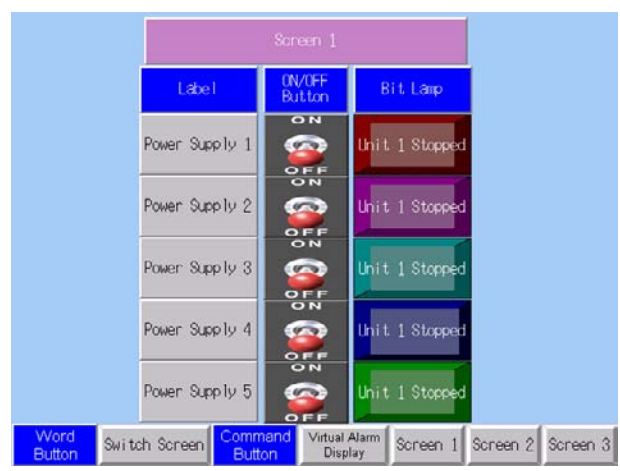
Click

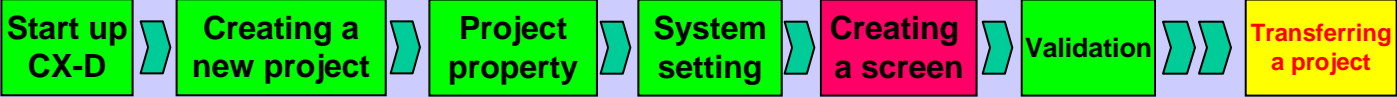
OK

OK



These are the three screens created so far.



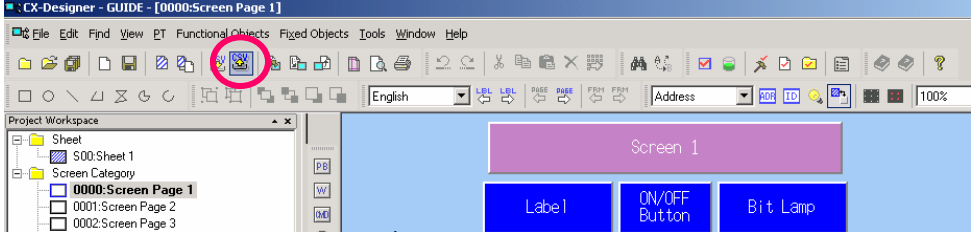


## 22. Creating another Language label

Up to 16 different labels (characters) can be set for each functional object. In this manual, you will create a project with two labels, English and Dutch, that can be switched by a one-touch operation using the label switching function.

### 22-1 Creating a Dutch label

Click the [CSV File Export] button.



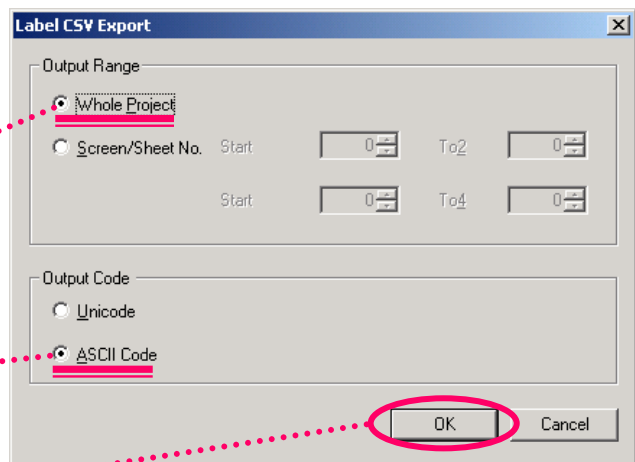
Check [Label/Message] in the [Target].



Click



Check [Whole Project] in the [Output Range].

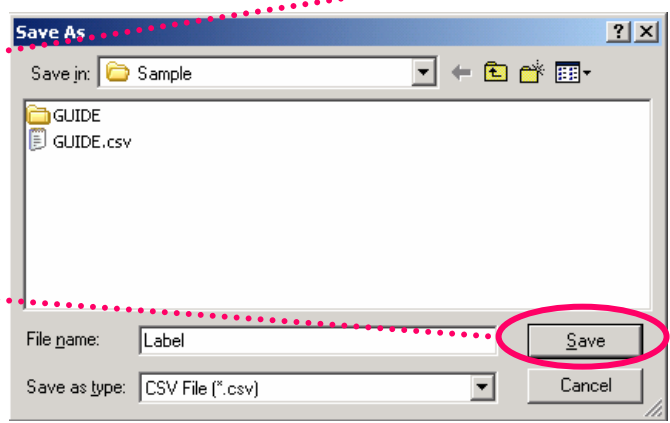


Check [ASCII Code] in the [Output Code].

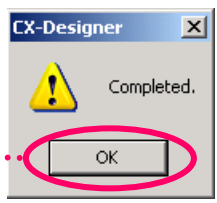
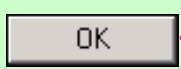
Click

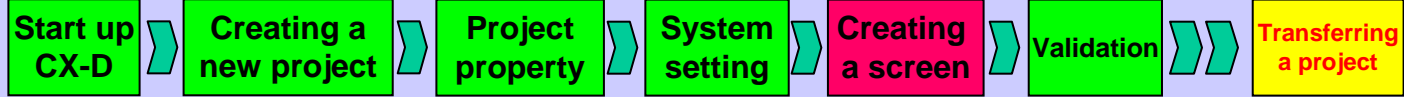


Enter a file name (here Label) and click Save.



Click





Read the file saved on the previous page with EXCEL. (Select [Data] menu – [Get External Data] – Import Text File...)

Microsoft Excel - Label.csv

	A	B	C	D	E	F	G
1	PRJ						
2	Project/Sc	Title	Parts ID	Parts Com	Property	English	Dutch
3	Project				AlarmMessage-0	Alarm 1	Alarm 1
4	Project				AlarmMessage-1	Alarm 2	Alarm 2
5	Project				AlarmMessage-2	Alarm 3	Alarm 3
6	Project				AlarmMessage-3	Alarm 4	Alarm 4
7	Project				AlarmMessage-4	Alarm 5	Alarm 5
8	Project				AlarmMessage-5	Alarm 6	Alarm 6
9	Project				AlarmMessage-6	Alarm 7	Alarm 7
10	Project				AlarmMessage-7	Alarm 8	Alarm 8
11	Project				AlarmMessage-8	Alarm 9	Alarm 9

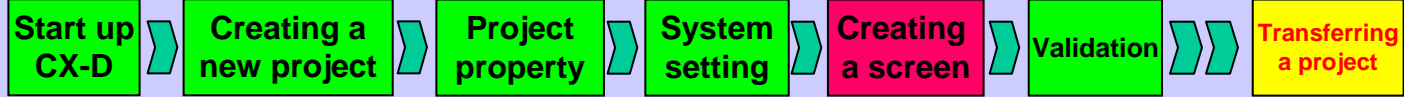


Microsoft Excel - Label.csv

	A	B	C	D	E	F	G
31	Screen-0	Screen Page1	PB0006		Caption-ON		
32	Screen-0	Screen Page1	LBL0007		Caption	LABEL	LABEL
33	Screen-0	Screen Page1	LBL0008		Caption	Power Supply1	Voeding1
34	Screen-0	Screen Page1	LBL0009		Caption	Power Supply2	Voeding2
35	Screen-0	Screen Page1	LBL0010		Caption	Power Supply3	Voeding3
36	Screen-0	Screen Page1	LBL0011		Caption	Power Supply4	Voeding4
37	Screen-0	Screen Page1	LBL0012		Caption	Power Supply5	Voeding5
38	Screen-0	Screen Page1	LBL0013		Caption	Bit Lamp	Bit Lamp
39	Screen-0	Screen Page1	PL0014		Caption-OFF	Unit 1 Stopped	Unit1 Inactief
40	Screen-0	Screen Page1	PL0014		Caption-ON	Unit 1 Running	Unit1 Actief
41	Screen-0	Screen Page1	PL0015		Caption-OFF	Unit 2 Stopped	Unit2 Inactief
42	Screen-0	Screen Page1	PL0015		Caption-ON	Unit 2 Running	Unit2 Actief
43	Screen-0	Screen Page1	PL0016		Caption-OFF	Unit 3 Stopped	Unit3 Inactief
44	Screen-0	Screen Page1	PL0016		Caption-ON	Unit 3 Running	Unit3 Actief
45	Screen-0	Screen Page1	PL0017		Caption-OFF	Unit 4 Stopped	Unit4 Inactief
46	Screen-0	Screen Page1	PL0017		Caption-ON	Unit 4 Running	Unit4 Actief
47	Screen-0	Screen Page1	PL0018		Caption-OFF	Unit 5 Stopped	Unit5 Inactief
48	Screen-0	Screen Page1	PL0018		Caption-ON	Unit 5 Running	Unit5 Actief
49	Screen-1	Screen Page2	LBL0000		Caption	Screen 2	Scherm 2
50	Screen-1	Screen Page2	LBL0001		Caption	Frame	Frame
51	Screen-1	Screen Page2	LBL0003		Caption	Light Alarm Display	Laag Alarm View
52	Screen-1	Screen Page2	LBL0004		Caption	High Alarm Display	Hoog Alarm View

Enter labels in Dutch for the Screen Page 1.





Microsoft Excel - Label.csv

File Edit View Insert Help

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Screen Page 2 English Dutch

	A	B	C	D	E	F	G
49	Screen-1	Screen Page2	LBL0000		Caption	Screen 2	Scherm 2
50	Screen-1	Screen Page2	LBL0001		Caption	Frame	Frame
51	Screen-1	Screen Page2	LBL0003		Caption	Light Alarm Display	Laag Alarm View
52	Screen-1	Screen Page2	LBL0004		Caption	High Alarm Display	Hoog Alarm View
53	Screen-1	Screen Page2	PL0005		Caption		
54	Screen-1	Screen Page2	PL0006		Caption		
55	Screen-1	Screen Page2	PL0007		Caption		
56	Screen-1	Screen Page2	PL0008		Caption		
57	Screen-1	Screen Page2	PL0009		Caption		
58	Screen-1	Screen Page2	PL0010		Caption		
59	Screen-1	Screen Page2	LBL0011		Caption	Alarm 1	Alarm 1
60	Screen-1	Screen Page2	LBL0012		Caption	Alarm 2	Alarm 2
61	Screen-1	Screen Page2	LBL0013		Caption	Alarm 3	Alarm 3
62	Screen-1	Screen Page2	LBL0014		Caption	Alarm 4	Alarm 4
63	Screen-1	Screen Page2	LBL0015		Caption	Alarm 5	Alarm 5
64	Screen-1	Screen Page2	LBL0016		Caption	Alarm 6	Alarm 6
65	Screen-1	Screen Page2	PL0017		Caption		
66	Screen-1	Screen Page2	PL0018		Caption		
67	Screen-1	Screen Page2	PL0019		Caption		
68	Screen-1	Screen Page2	PL0020		Caption		
69	Screen-1	Screen Page2	PL0021		Caption		
70	Screen-1	Screen Page2	PL0022		Caption		
71	Screen-1	Screen Page2	LBL0023		Caption	Alarm 7	Alarm 7
72	Screen-1	Screen Page2	LBL0024		Caption	Alarm 8	Alarm 8
73	Screen-1	Screen Page2	LBL0025		Caption	Alarm 9	Alarm 9
74	Screen-1	Screen Page2	LBL0026		Caption	Alarm 10	Alarm 10
75	Screen-1	Screen Page2	LBL0027		Caption	Alarm 11	Alarm 11
76	Screen-1	Screen Page2	LBL0028		Caption	Alarm 12	Alarm 12
77	Screen-1	Screen Page2	LBL0029		Caption	Present Value	Huidige Waarde
78	Screen-1	Screen Page2	LBL0030		Caption	Set Value	Set Waarde
79	Screen-1	Screen Page2	PBW0033		Caption	Transfer	Versturen
80	Screen-1	Screen Page2	LBL0034		Caption	Word Button	Word Knop
81	Screen-1	Screen Page2	LBL0035		Caption	Numeral Input \n& Display	Numeriek\nWeergave\n& Ingave
82	Screen-1	Screen Page2	LBL0036		Caption	Label	Label
83	Screen-2	Screen Page3	LBL0000		Caption	Screen 3	Scherm 3

Ready

Enter labels in Dutch for the Screen Pages 2 to 3.

"\n" n character strings is a line feed.

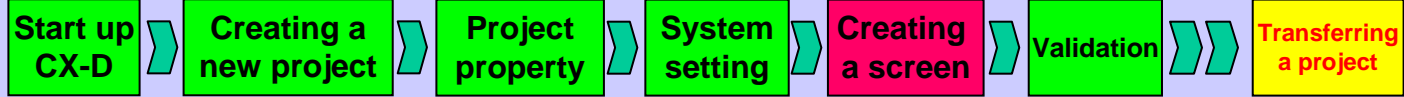
Microsoft Excel - Label.csv

File Edit View Insert Format Tools Window Help

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Screen Page 3

	A	B	C	D	E	F	G
83	Screen-2	Screen Page3	LBL0000		Caption	Screen 3	Scherm 3
84	Screen-2	Screen Page3	LBL0001		Caption	Alarm/Event Display	Alarm/Event Weergave
85	Screen-2	Screen Page3	LBL0004		Caption	Alarm/Event Summary & History	Alarm/Event Historie
86	Screen-3	Pop-up Screen1	LBL0000		Caption	Pop-up Screen	Pop-up Scherm

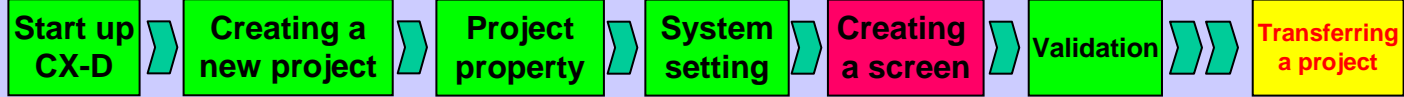


Microsoft Excel - Pop-up Screen 1 English Dutch

	A	B	C	D	E	F	G
86	Screen-3	Pop-up Screen1	LBL0000		Caption	Pop-up Screen	Pop-up Scherm
87	Screen-3	Pop-up Screen1	PB0001		Caption-CFF		
88	Screen-3	Pop-up Screen1	PB0001		Caption-CN		
89	Screen-3	Pop-up Screen1	LBL0002		Caption	Alarm 1	Alarm 1
90	Screen-3	Pop-up Screen1	LBL0003		Caption	Alarm 2	Alarm 2
91	Screen-3	Pop-up Screen1	LBL0004		Caption	Alarm 3	Alarm 3
92	Screen-3	Pop-up Screen1	LBL0005		Caption	Alarm 4	Alarm 4
93	Screen-3	Pop-up Screen1	LBL0006		Caption	Alarm 5	Alarm 5
94	Screen-3	Pop-up Screen1	LBL0007		Caption	Alarm 6	Alarm 6
95	Screen-3	Pop-up Screen1	PB0008		Caption-CFF		
96	Screen-3	Pop-up Screen1	PB0008		Caption-CN		
97	Screen-3	Pop-up Screen1	PB0009		Caption-CFF		
98	Screen-3	Pop-up Screen1	PB0009		Caption-CN		
99	Screen-3	Pop-up Screen1	PB0010		Caption-CFF		
100	Screen-3	Pop-up Screen1	PB0010		Caption-CN		
101	Screen-3	Pop-up Screen1	PB0011		Caption-CFF		
102	Screen-3	Pop-up Screen1	PB0011		Caption-CN		
103	Screen-3	Pop-up Screen1	PB0012		Caption-CFF		
104	Screen-3	Pop-up Screen1	PB0012		Caption-CN		
105	Screen-3	Pop-up Screen1	LBL0013		Caption	Alarm 7	Alarm 7
106	Screen-3	Pop-up Screen1	PB0014		Caption-CFF		
107	Screen-3	Pop-up Screen1	PB0014		Caption-CN		
108	Screen-3	Pop-up Screen1	LBL0015		Caption	Alarm 8	Alarm 8
109	Screen-3	Pop-up Screen1	LBL0016		Caption	Alarm 9	Alarm 9
110	Screen-3	Pop-up Screen1	LBL0017		Caption	Alarm 10	Alarm 10
111	Screen-3	Pop-up Screen1	LBL0018		Caption	Alarm 11	Alarm 11
112	Screen-3	Pop-up Screen1	LBL0019		Caption	Alarm 12	Alarm 12
113	Screen-3	Pop-up Screen1	PB0020		Caption-OFF		

Enter labels in Dutch for the Pop-up Screen.

"\n" in character strings is a line feed.



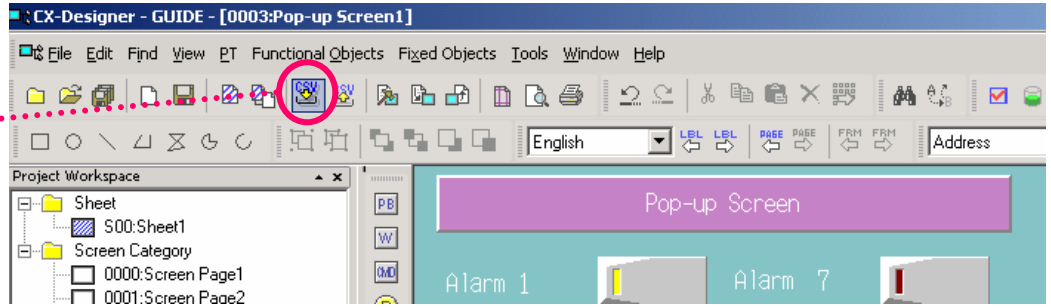
Microsoft Excel - Label OEE translated\_Dutch.csv

	Sheet	English	Dutch			
123	Screen-3	Pop-up screen1	PBC0025	Caption	Close	Sluiten
124	Sheet-0	Sheet1	PBW0000	Caption	Switch Label	Verande\nLabel
125	Sheet-0	Sheet1	PBW0000	MenuName	English	Engels
126	Sheet-0	Sheet1	PBW0000	MenuName	Japanese	Japans
127	Sheet-0	Sheet1	PBC0001	Caption	Virtual Alarm\nDisplay	Virtual Alarm\nWeergave
128	Sheet-0	Sheet1	PBC0002	Caption	Screen 1	Scherm 1
129	Sheet-0	Sheet1	PBC0003	Caption	Screen 2	Scherm 2
130	Sheet-0	Sheet1	PBC0004	Caption	Screen 3	Scherm 3
131	Sheet-0	Sheet1	LBL0005	Caption	Word\nButton	Word\nKnop
132	Sheet-0	Sheet1	LBL0006	Caption	Command\nButton	Commando\nKnop

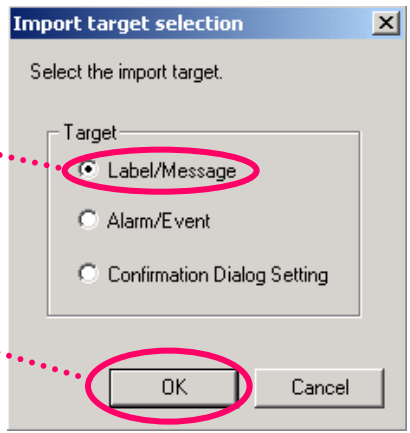
Enter labels for [Sheet] in Dutch.

"\n" n character strings is a line feed.

Save the file when you have finished editing.

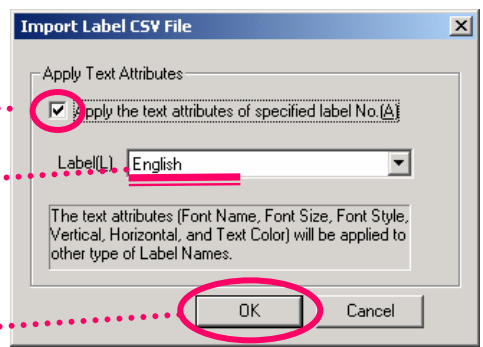


Click [CSV File Import]



Check [Label/Message] in the [Target]

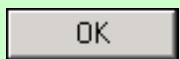
Click

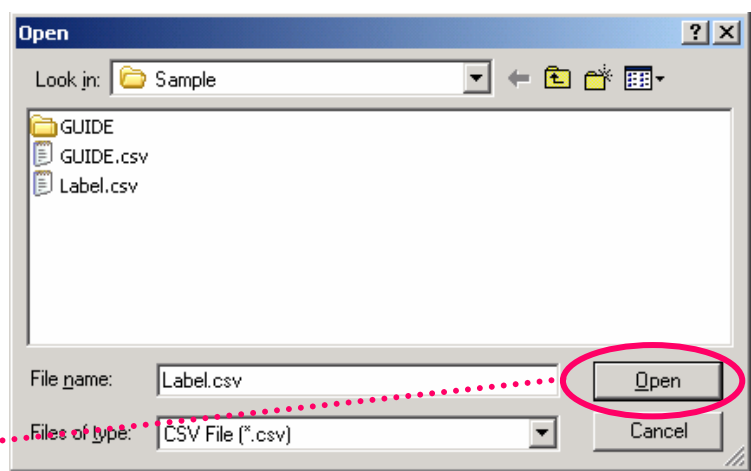
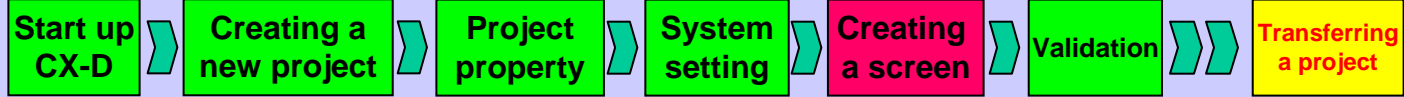


Check the [Apply the text Attributes of specified No. (A)] box.

Select [English] from the [Label] pull-down menu.

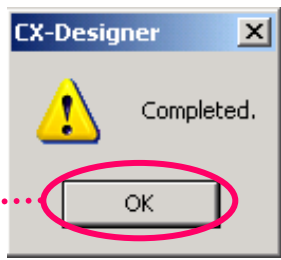
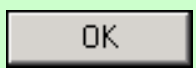
Click





Enter the file name that has just been specified and click the [Open] button.

Click





Start up  
CX-D

Creating a  
new project

Project  
property

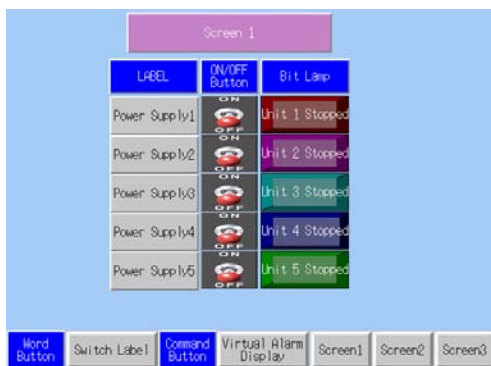
System  
setting

Creating  
a screen

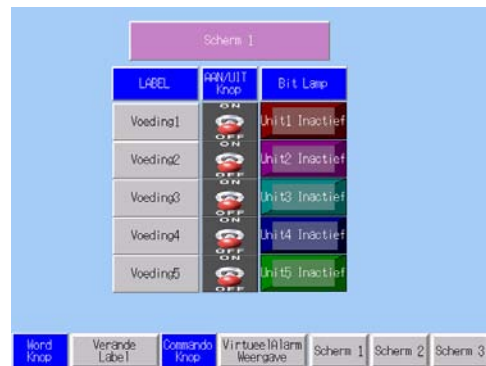
Validation

Transferring  
a project

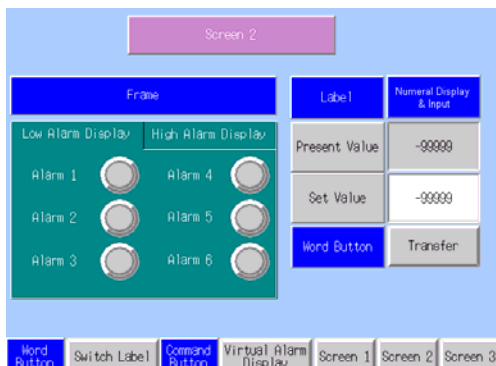
English Labels  
Screen 1



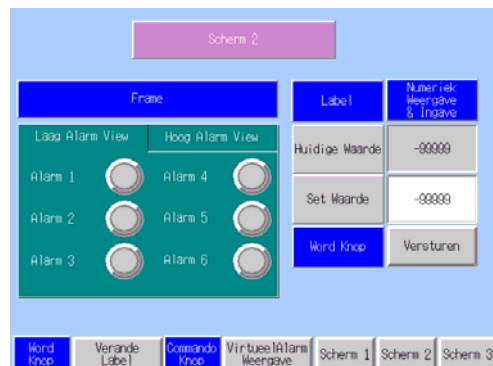
Dutch Labels  
Screen 1



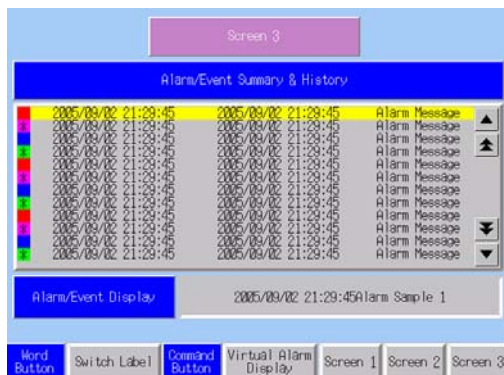
Screen 2



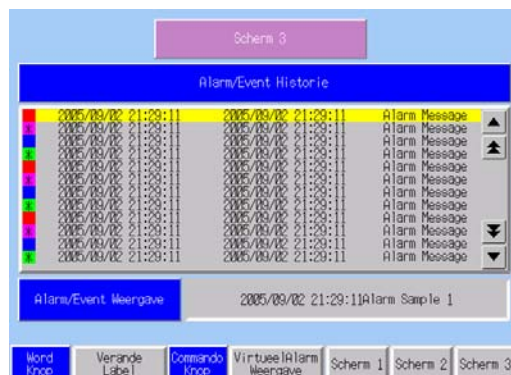
Screen 2



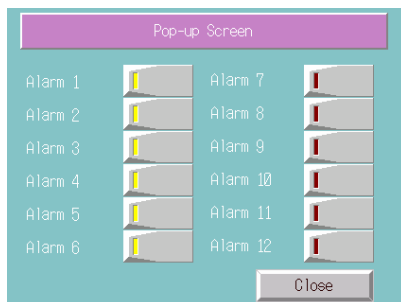
Screen 3



Screen 3

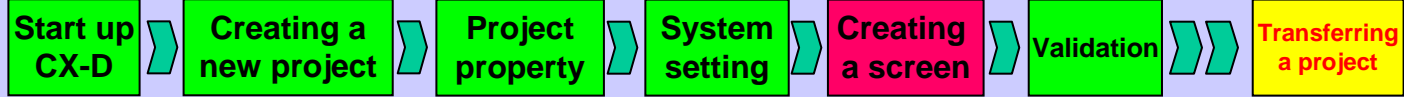


Pop-up Screen



Pop-up Screen

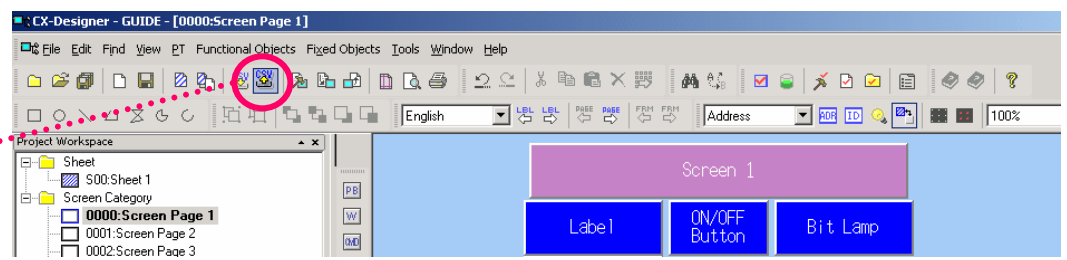




**22-2 Setting Alarm/Event in Dutch**

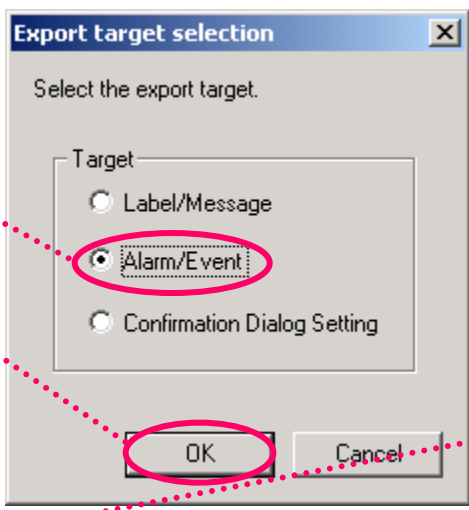
**Making settings for alarm/event in Dutch.  
In this manual, you will create a project with two language labels, English and Dutch.**

Click the [CSV File Export] button.



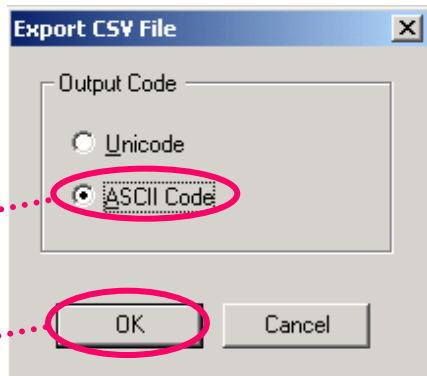
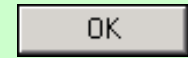
Check [Alarm/Event] in the [Target].

Click

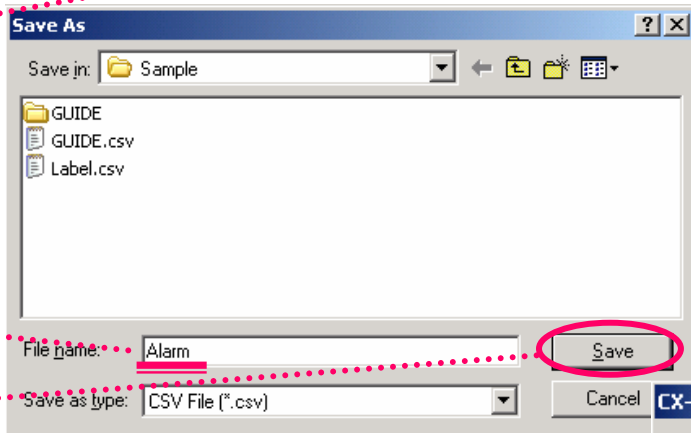
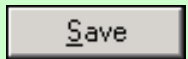


Check [ASCII Code] in the [Output Code].

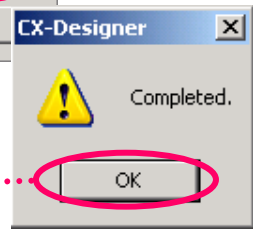
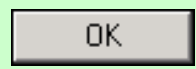
Click

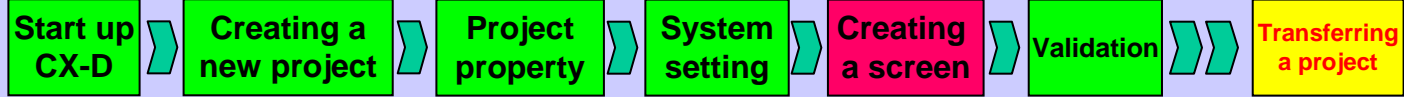


Enter a file name (Alarm is used here) and click



Click





Read the file save on a previous page with EXCEL. (Select [Data] menu – [Get External Data] – Import Text File...).

Microsoft Excel - GUIDE.csv

1	Address	Priority	Display Ty	Group N	Group	E	F	G	H	I	J	K	L	M	N
2	HOST1:00001.00	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 1		
3	HOST1:00001.01	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 2		
4	HOST1:00001.02	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 3		
5	HOST1:00001.03	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 4		
6	HOST1:00001.04	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 5		
7	HOST1:00001.05	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 6		
8	HOST1:00002.00	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 7		
9	HOST1:00002.01	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 8		
10	HOST1:00002.02	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 9		
11	HOST1:00002.03	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 10		
12	HOST1:00002.04	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 11		
13	HOST1:00002.05	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 12		
14	HOST1:00000.00	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 1 Start Running		
15	HOST1:00000.01	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 2 Start Running		
16	HOST1:00000.02	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 3 Start Running		
17	HOST1:00000.03	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 4 Start Running		
18	HOST1:00000.04	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 5 Start Running		

Microsoft Excel - GUIDE.csv

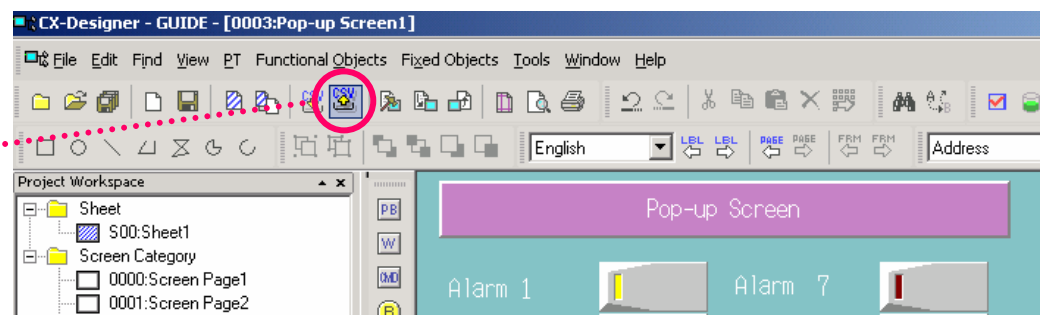
lowalarm  
highalarm  
event

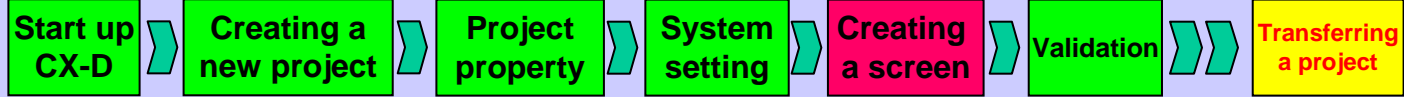
English

Dutch

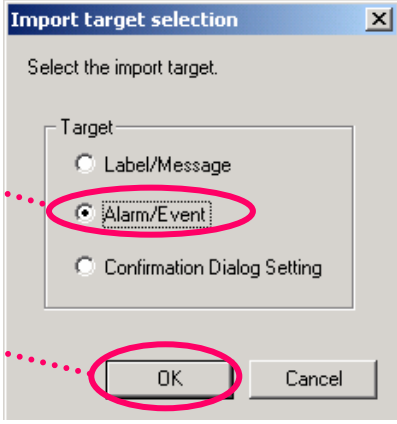
1	Address	Priority	Display Ty	Group No.	Group	E	F	G	H	I	J	K	L	M	N
2	HOST1:001	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 1	Alarm 1	Alarm 1
3	HOST1:001	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 2	Alarm 2	Alarm 2
4	HOST1:001	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 3	Alarm 3	Alarm 3
5	HOST1:001	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 4	Alarm 4	Alarm 4
6	HOST1:001	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 5	Alarm 5	Alarm 5
7	HOST1:001	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 6	Alarm 6	Alarm 6
8	HOST1:001	1	lowalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 7	Alarm 7	Alarm 7
9	HOST1:001	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 8	Alarm 8	Alarm 8
10	HOST1:001	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 9	Alarm 9	Alarm 9
11	HOST1:001	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 10	Alarm 10	Alarm 10
12	HOST1:001	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 11	Alarm 11	Alarm 11
13	HOST1:001	1	highalarm	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Alarm 12	Alarm 12	Alarm 12
14	HOST1:001	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 1 Start Running	Unit1 Actief	Unit1 Actief
15	HOST1:001	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 2 Start Running	Unit2 Actief	Unit2 Actief
16	HOST1:001	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 3 Start Running	Unit3 Actief	Unit3 Actief
17	HOST1:001	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 4 Start Running	Unit4 Actief	Unit4 Actief
18	HOST1:001	1	event	0	0	FALSE	0	FALSE	TRUE	0	0	posedge	Unit 5 Start Running	Unit5 Actief	Unit5 Actief

Write [lowalarm], [highalarm], and [event] In Dutch.

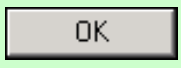




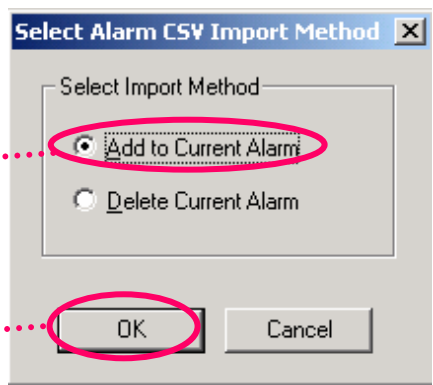
Check [Alarm/Event] in the [Target].



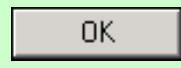
Click



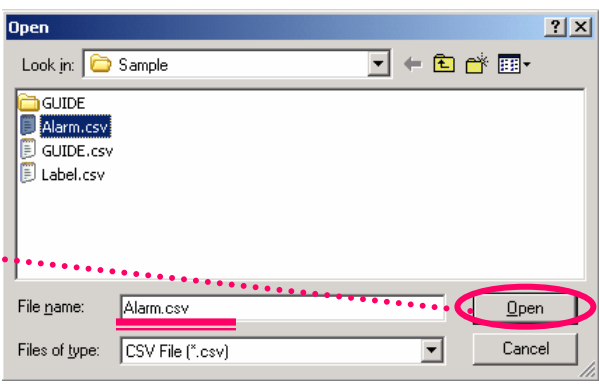
Check [Add to Current Alarm] in the [Selected Import Alarm].



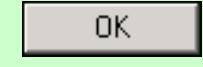
Click



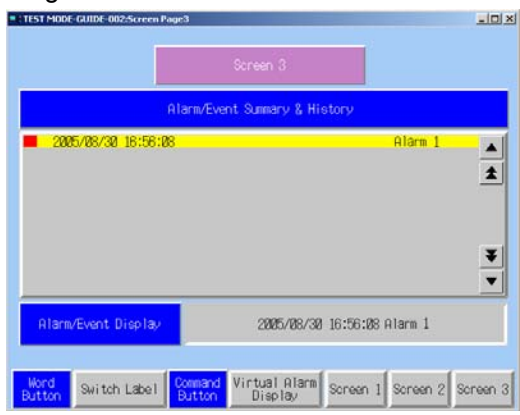
Enter the file name that has just been specified and click the [Open] button.



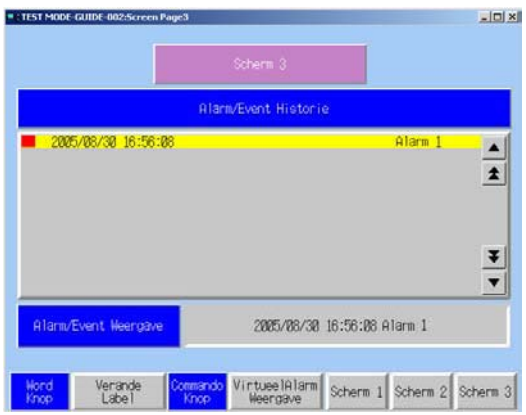
Click

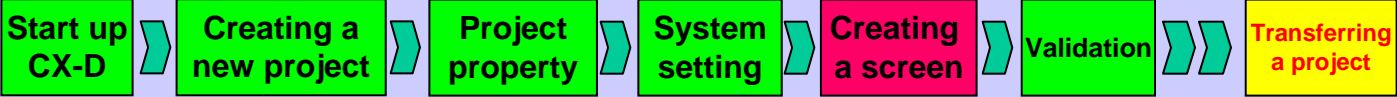


English Label



Dutch Label



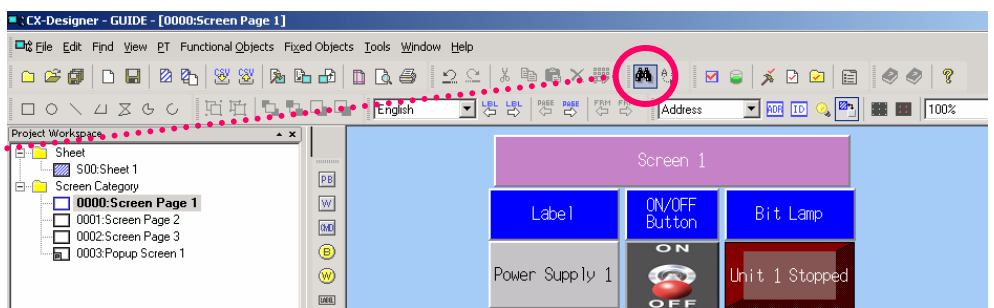


## 23. Useful Functions

Searching addresses used in a project.  
 In this manual, you will search OCH of Common I/O Area (CIO) allocated to the PLC.

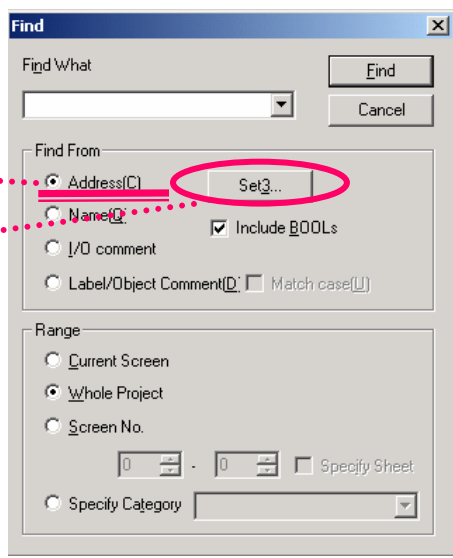
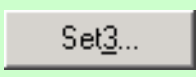
### 23-1 Find (Address)

Click the [Find] button.



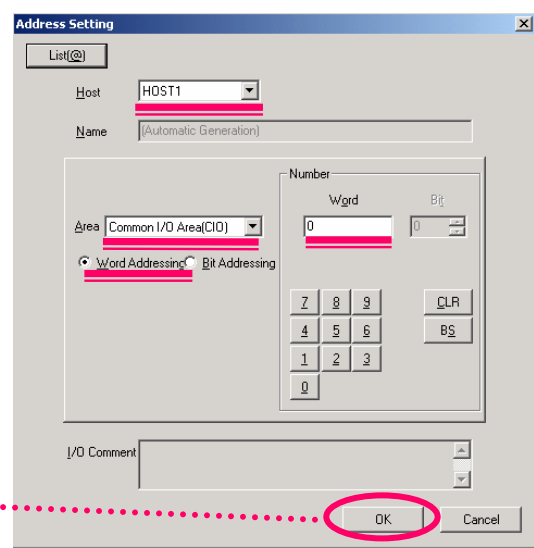
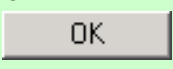
Check [Address] in the [Find What].

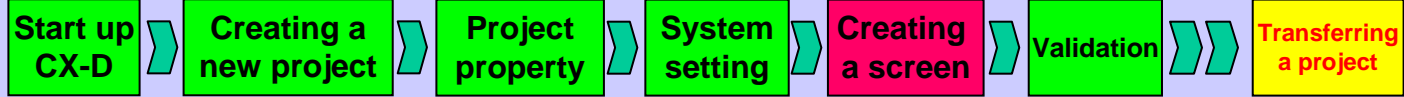
Click



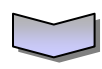
Host  
 → [HOST 1]  
 Area  
 → [Common I/O Area (CIO)]  
 → Check "Word Addressing"  
 Word  
 → [0]

Click





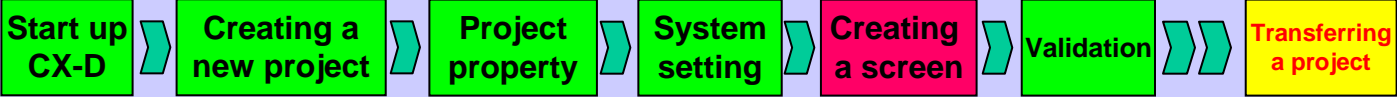
Click the [Find] button.

Search results are displayed as a list.

Search Result: 10 entries found

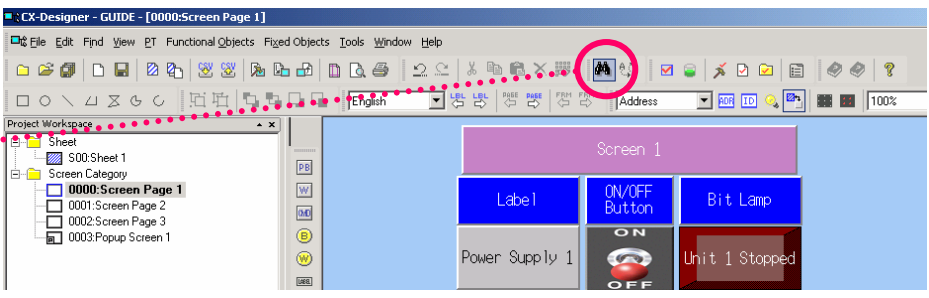
Page	ID	Host	Name	Address	IO Comment	Label	Object Comment	Find From: Communications AddressRange Whole Project	Detailed Information
0000	PL0018	HOST1	AutoGen9	00000.04					Bit Lamp : Display Address
0000	PL0017	HOST1	AutoGen8	00000.03					Bit Lamp : Display Address
0000	PL0016	HOST1	AutoGen7	00000.02					Bit Lamp : Display Address
0000	PL0015	HOST1	AutoGen6	00000.01					Bit Lamp : Display Address
0000	PL0014	HOST1	AutoGen5	00000.00					Bit Lamp : Display Address
0000	PB0006	HOST1	AutoGen9	00000.04					ON/OFF Button : Write Address
0000	PB0005	HOST1	AutoGen8	00000.03					ON/OFF Button : Write Address



23-2 Find (Label)

Searching labels and object comments used in a project.  
In this manual, you will search labels including the character string "Power Supply".

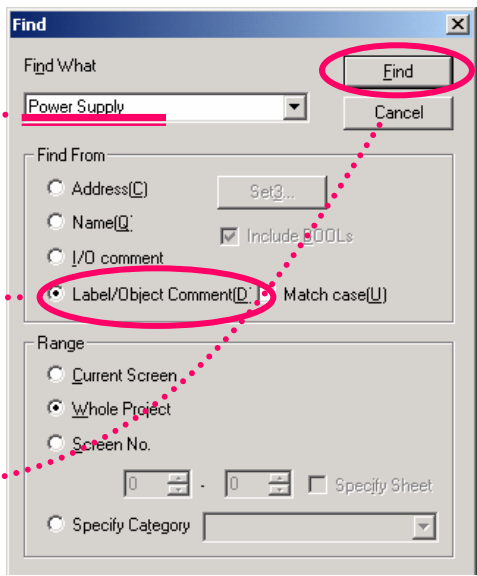
Click the [Find] button.



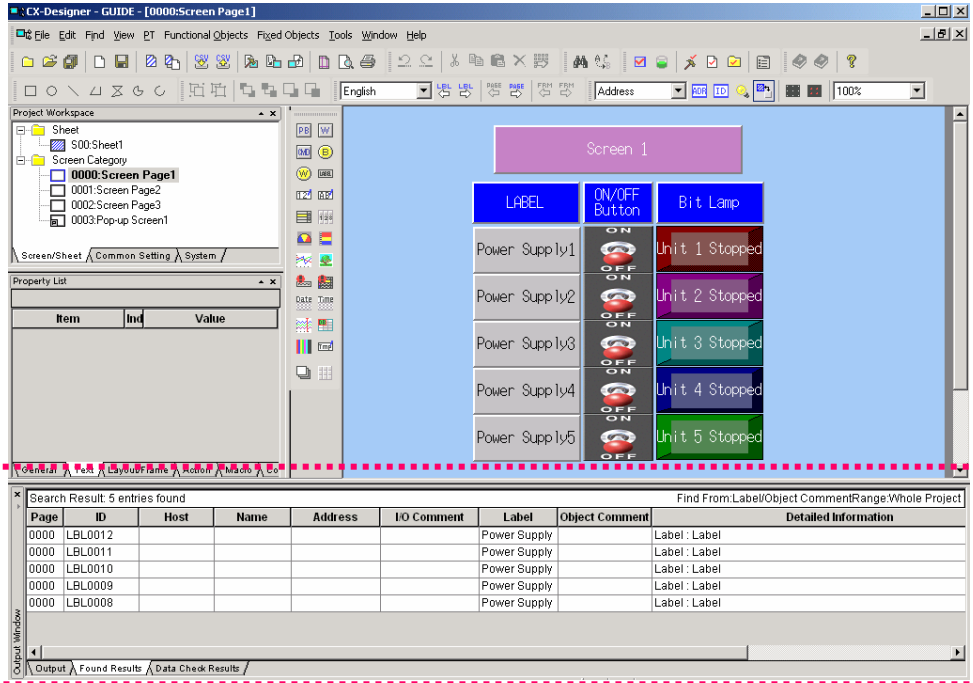
Enter "Power Supply" in [Find What].

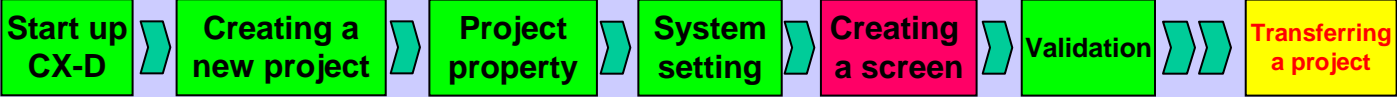
Check [Label/Object Comment(D)] in the [Find From]

Click



Search results are displayed in a list.





23-3 Select Object

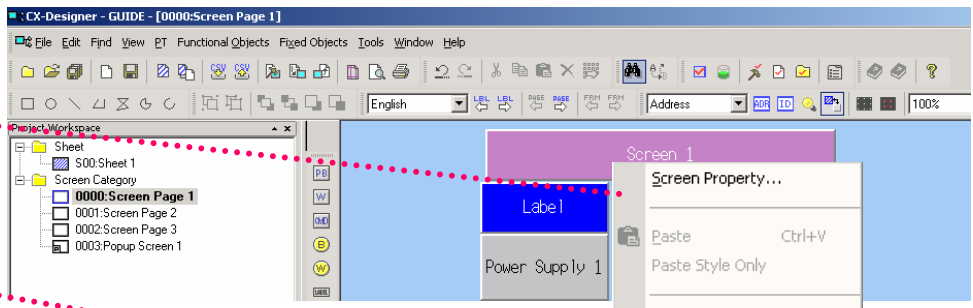
Using "Select Object" function facilitates your search for certain kinds of objects when many kinds of objects are on a screen. In this manual, you will select ON/OFF buttons.

Right-click the screen to display the pull-down menu.

Click [Select Object].

Click [ON/OFF Button].

The ON/OFF Buttons are displayed.



Object List

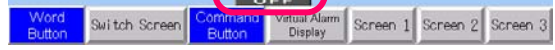
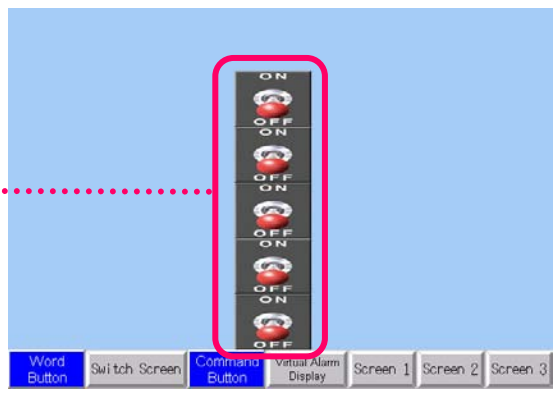
O	Object Comment	ID	X	Y
PB		PB0002	265	110
PB		PB0003	265	175
PB		PB0004	265	240
PB		PB0005	265	305
PB		PB0006	265	370
B		PL0014	360	110
B		PL0015	360	175
B		PL0016	360	240
B		PL0017	360	305
B		PL0018	360	370
LBL		LBL0000	140	8
LBL		LBL0001	265	59
LBL		LBL0007	135	59
LBL		LBL0008	135	109

Object List

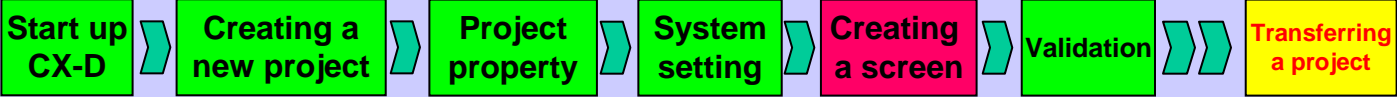
O	Object Comment	ID	X	Y
ON/OFF Button		PB0002	265	110
Label		PB0003	265	175
PB		PB0004	265	240
PB		PB0005	265	305
PB		PB0006	265	370
B		PL0014	360	110
B		PL0015	360	175
B		PL0016	360	240
B		PL0017	360	305
B		PL0018	360	370
LBL		LBL0000	140	8
LBL		LBL0001	265	59
LBL		LBL0007	135	59
LBL		LBL0008	135	109

Object List

O	Object Comment	ID	X	Y
PB		PB0002	265	110
PB		PB0003	265	175
PB		PB0004	265	240
PB		PB0005	265	305
PB		PB0006	265	370





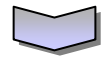
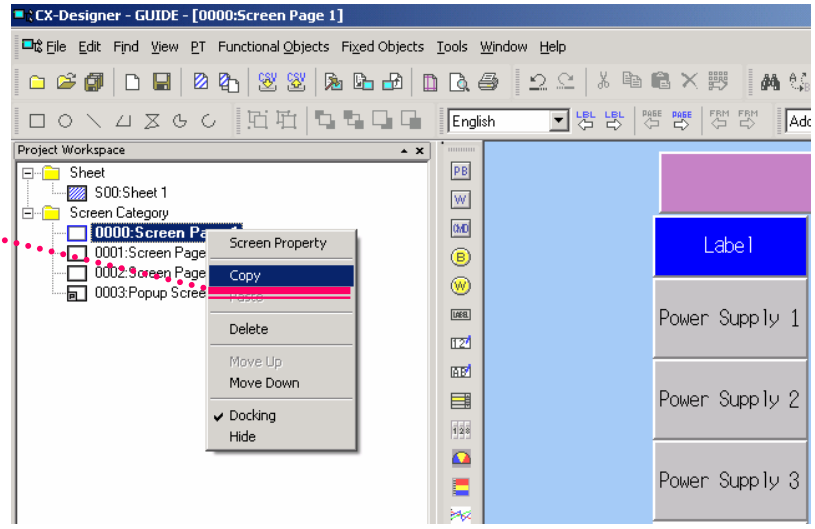


**23-4 Reuse of screen (by copying)**

“Reuse of Screen” is a function to use an already-made screen and copy them to another project.  
 In this manual, you will reuse Screen Page 1 made in the sample project (GUIDE) to another project (GUIDE 2).

Right-click [0000: Screen Page 1] on the Project Workspace to display the pull-down menu.

Click [Copy].

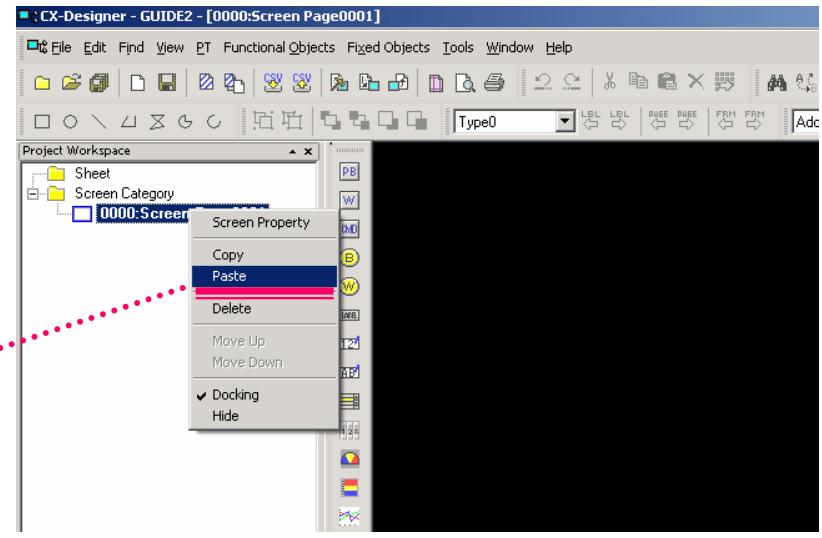


Start-up another CX-Designer and create a project “GUIDE 2” by referring to “3. New Project”.

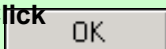
Do not close the CX-Designer on which you have been editing the project “GUIDE”.

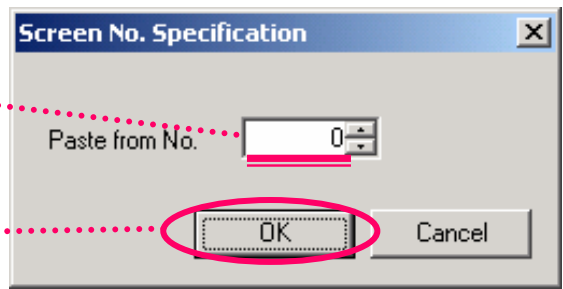
Right-click [Screen Page] to display the pull-down menu.

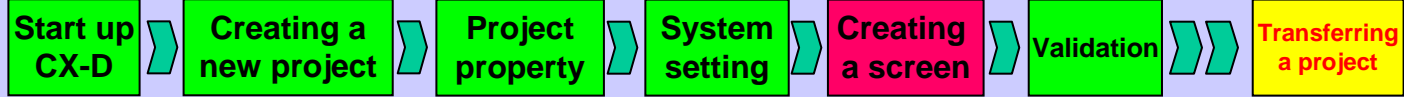
Click [Paste].



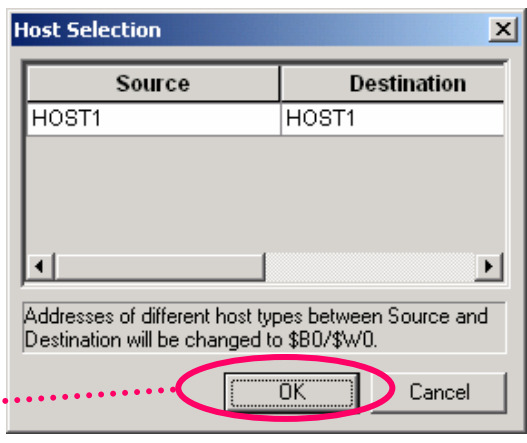
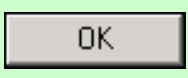
Enter [Paste from No.]. (“0” is set in this manual.)

Click 





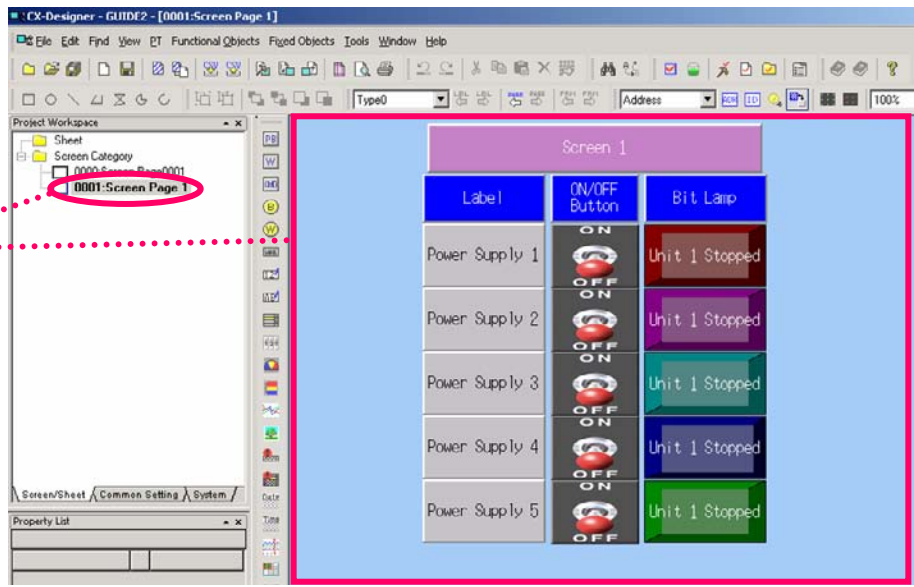
Click

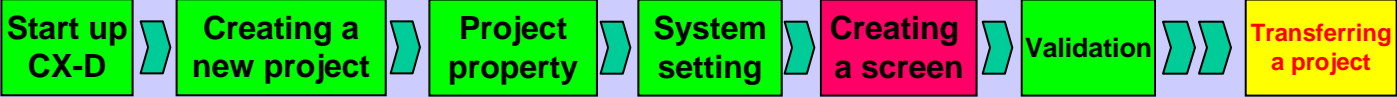


The process dialog appears.



[0000: Screen Page 1] is added.





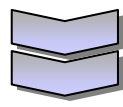
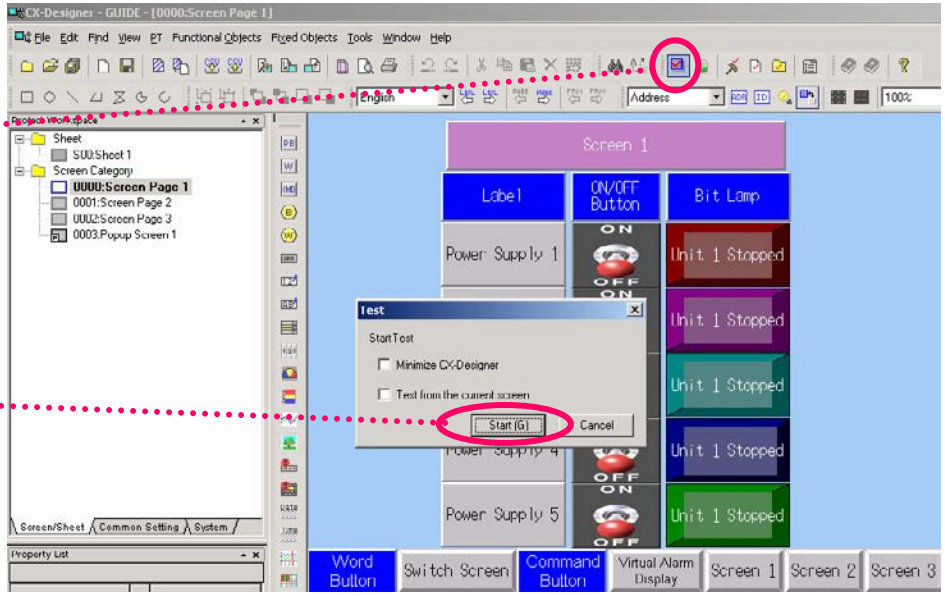
## 24. Test function

Before transferring the data, you can check it on the CX-Designer.

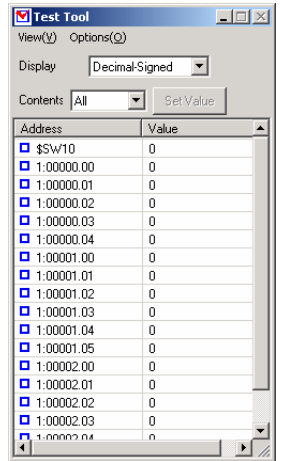
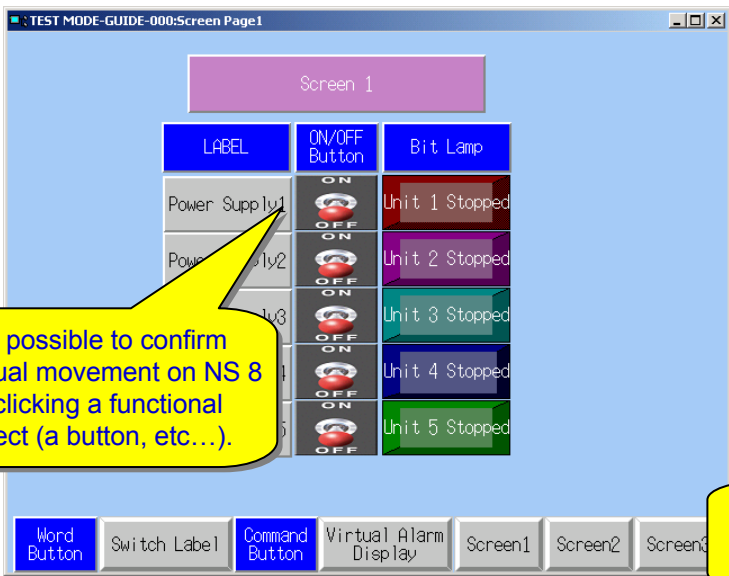
Click the [Test] button.



Click the [Start] button.

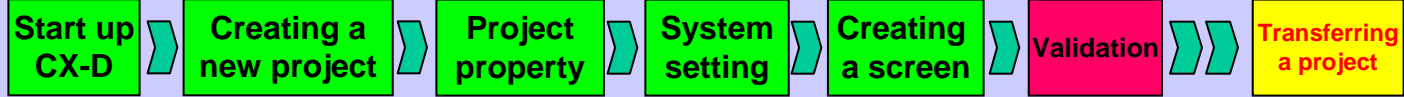


The first screen "0000: Screen Page 1" and the Test Tool dialog appear.



It is possible to confirm actual movement on NS 8 by clicking a functional object (a button, etc...).

You can directly change values on the Test Tool dialog.



[Confirming a movement of ON/OFF buttons and bit lamps of “Power Supply 1 to 5”.]

The Power Supply (1 to 3) bit lamps will lit by turning ON the ON/OFF buttons.

You can check that the addresses of the Power Supply (1 to 3) is turned ON on the Test Tool dialog.

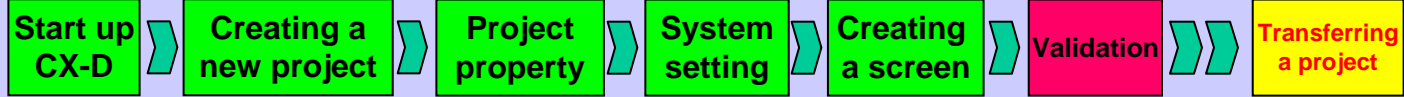
Click the Screen 2.

LABEL	ON/OFF Button	Bit Lamp
Power Supply1	ON	Unit 1 Running
Power Supply2	ON	Unit 2 Running
Power Supply3	ON	Unit 3 Running
Power Supply4	OFF	Unit 4 Stopped
Power Supply5	OFF	Unit 5 Stopped

Address	Value
1:00000.00	1
1:00000.01	1
1:00000.02	1
1:00000.03	0
1:00000.04	0
1:00001.00	0
1:00001.01	0
1:00001.02	0
1:00001.03	0
1:00001.04	0
1:00002.00	0
1:00002.01	0
1:00002.02	0
1:00002.03	0
1:00002.04	0

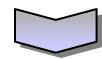
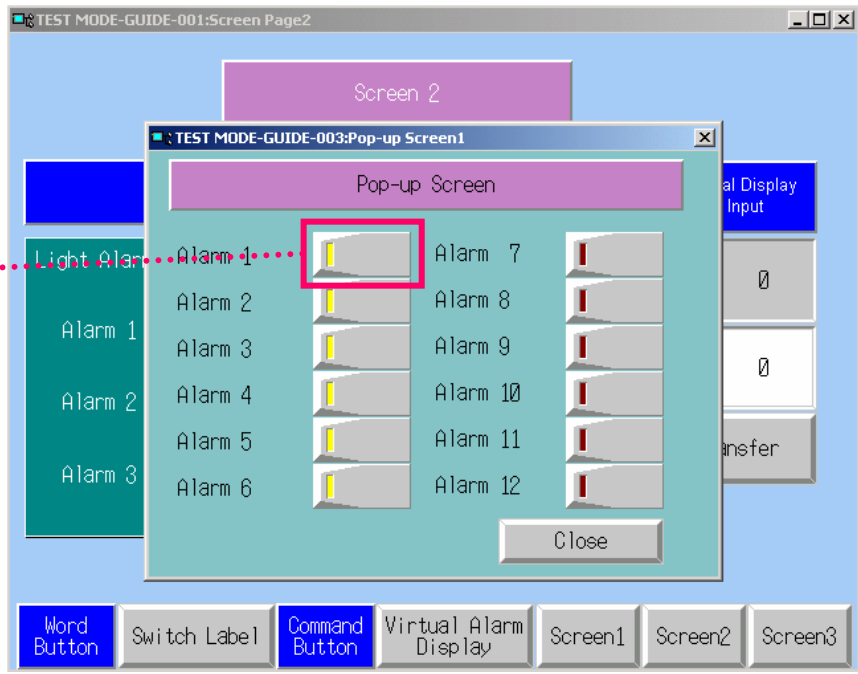
[Check the ON/OFF buttons and bit lamps of Alarms.]

Click the Virtual Alarm Display.



Pop-up Screen appears.

Turn ON the ON/OFF button of Alarm 1.

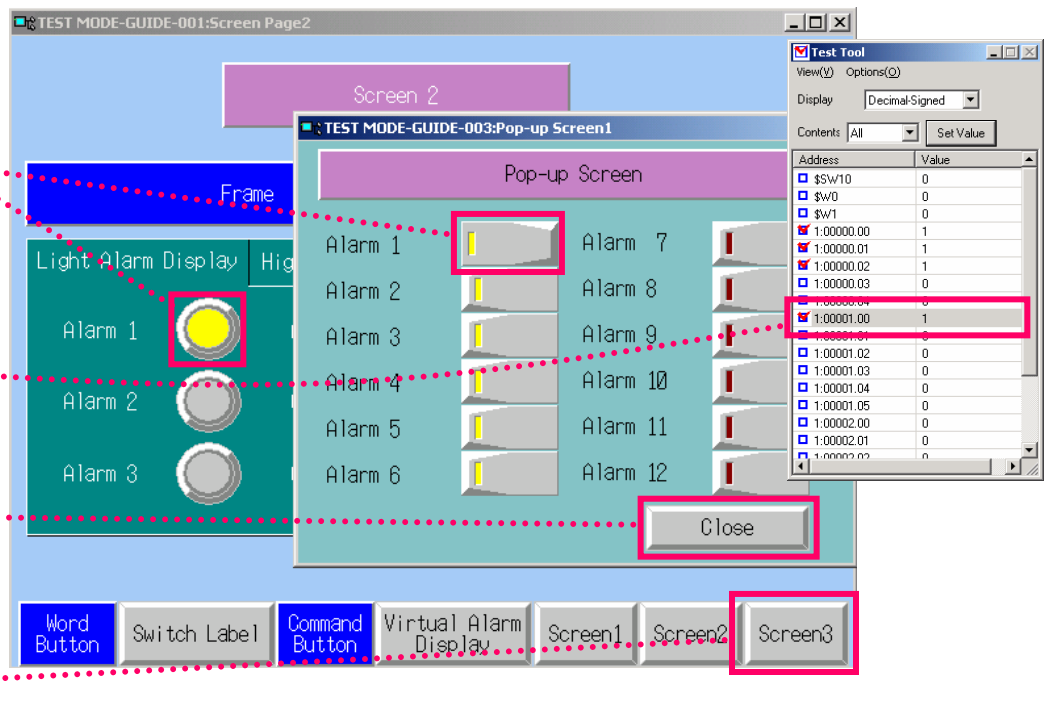


Alarm bit 1 is lit by turning ON the ON/OFF button of Alarm 1.

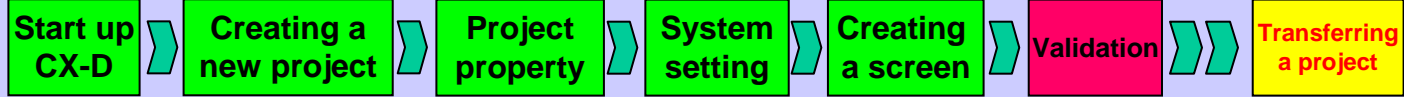
You can also check that the address of the Alarm 1 is turned ON on the Test Tool dialog.

Click the Close button.

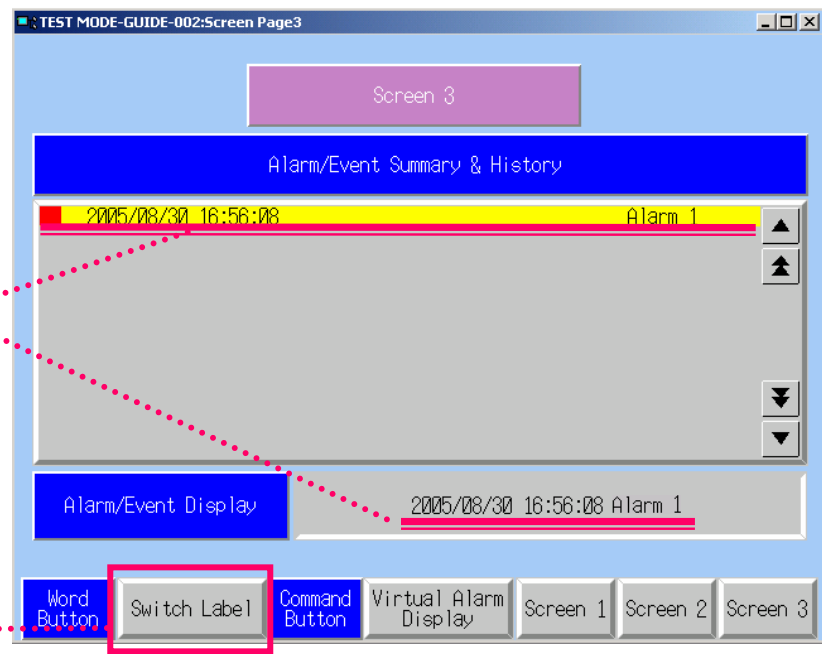
Click the Screen 3 button.



Screen 3



**[Confirming a movement of Alarm/Event.]**

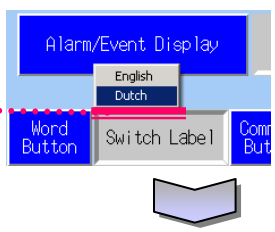


You can check the alarm that was occurred on the previous page.

Click the Switch Label button.

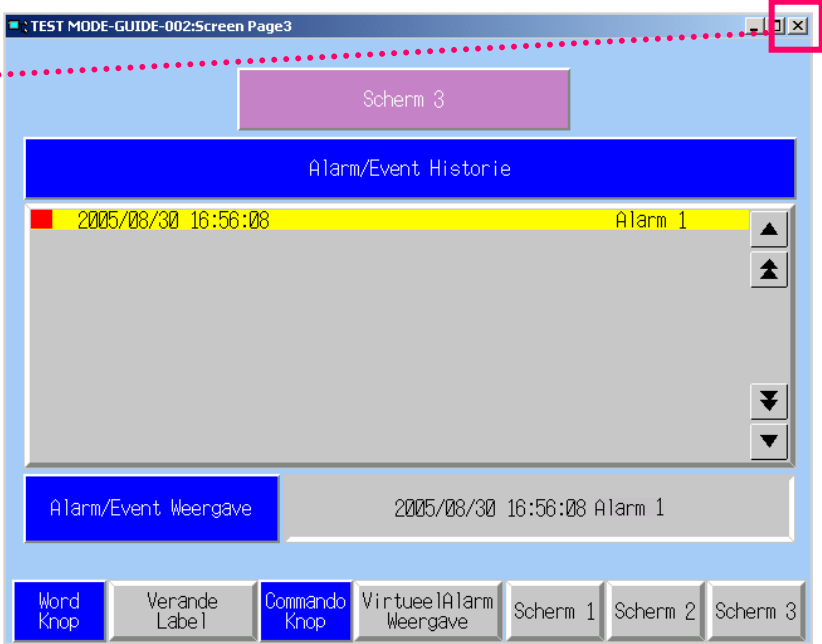


**[Check a movement of the Switch Label button.]**



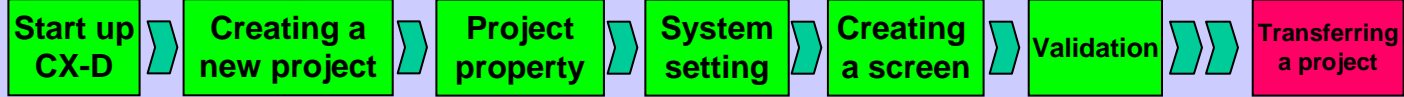
Click [Dutch] in the menu.

Click the [X] button to end the Test tool.



## *Section 3*

# *Transferring a project*



## Transferring project data

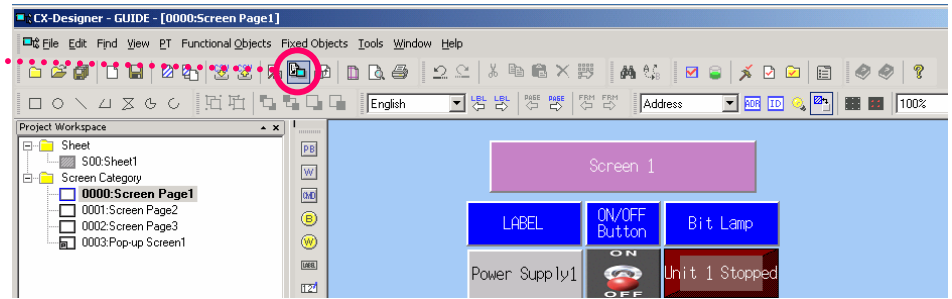
Transferring projects created on CX-Designer to the NS hardware. There are six ways to transfer a project: serial cable, Modem, Ethernet, Controller link, USB and Memory card. In this manual, you will transfers project data via serial cable and using a memory card

### 1. Transferring project data via serial cable(RS232C)

Before you start...

Connect the NS hardware to the personal computer with the communication cable (XW2Z-S002).

Click 

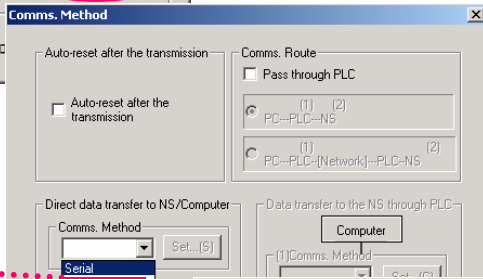


Click the Setting button.

Setting

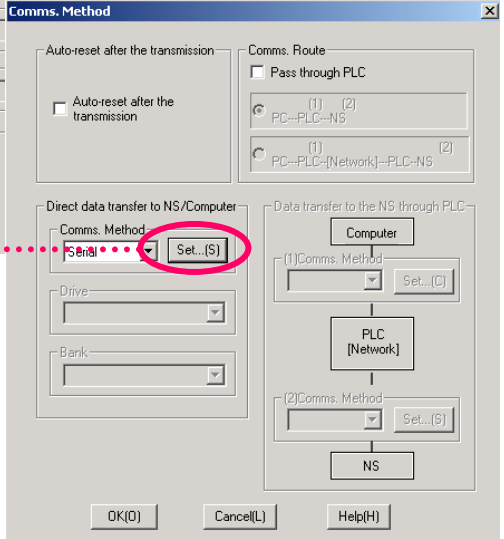


Select "Serial" from the Comms. Method pull-down menu.

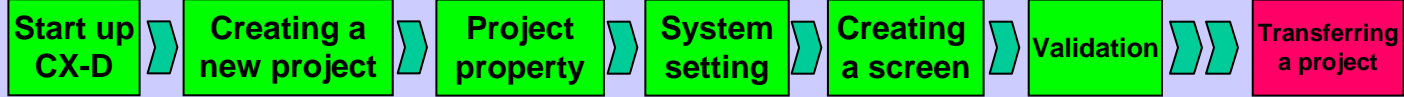


Click the Set... button.

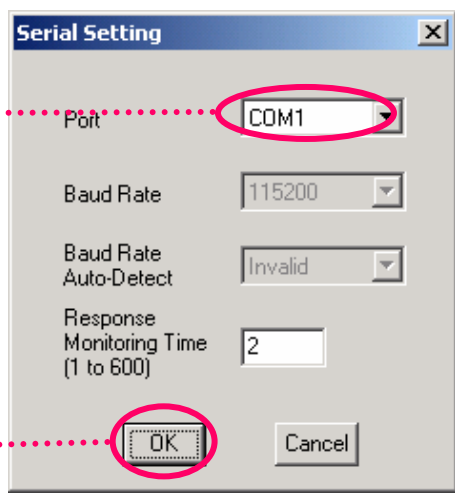
Set...(S)



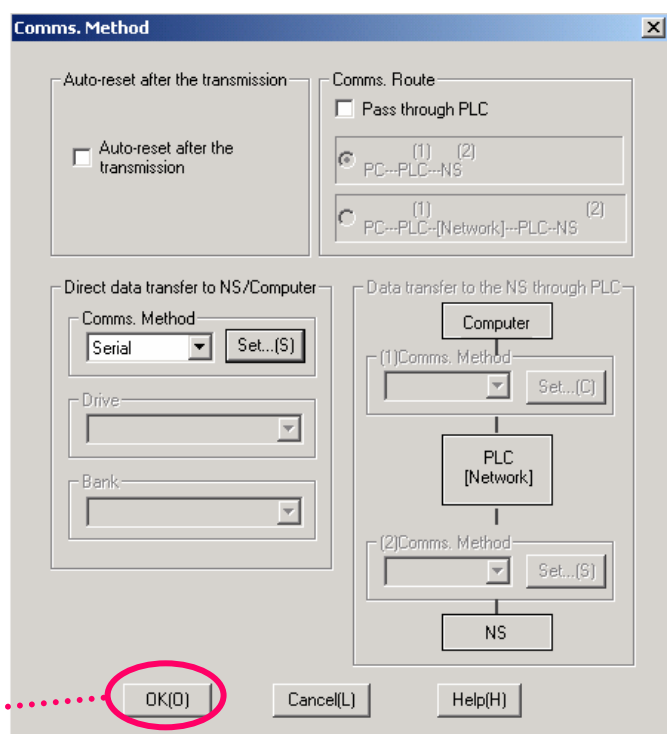




Select [Port] for connection. "COM1" is selected here. Select COM port to be used to connect with the NS hardware according to your working environment.

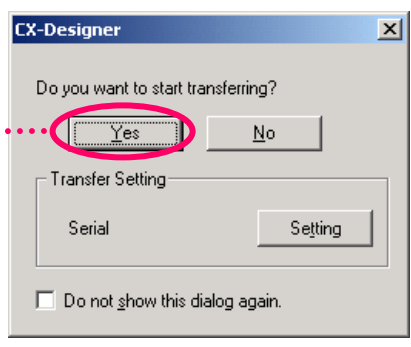


Click  
OK

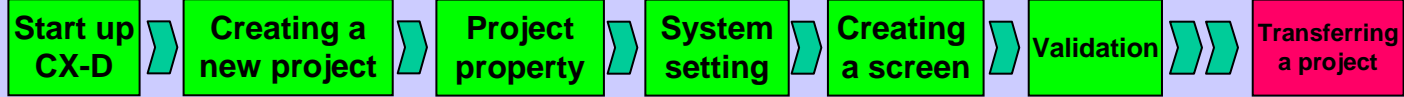


Click  
OK(O)

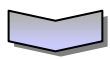
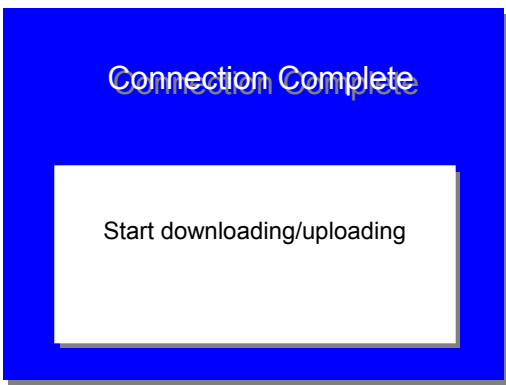
Click the Yes button.



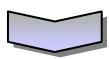
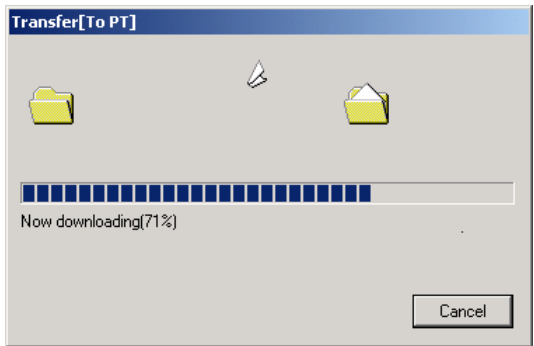
Yes



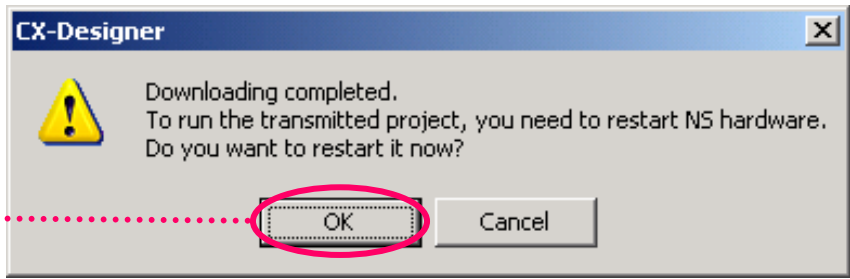
NS hardware screen changes to the transfer preparation screen.

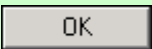


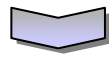
The transfer processing dialog appears.

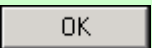


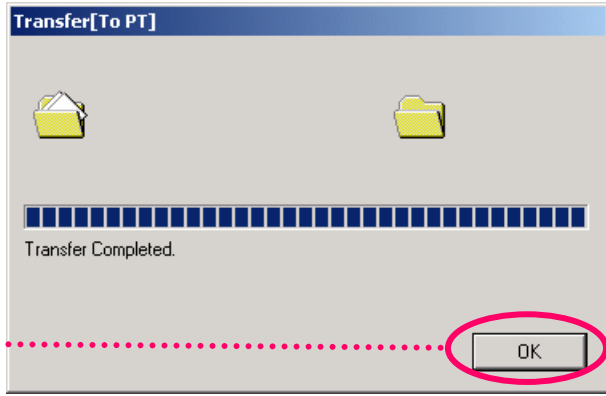
On the NS hardware, the process bar appears, too.

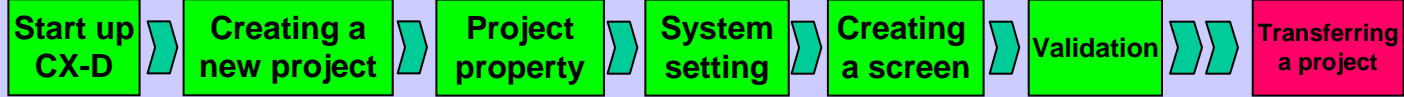


Click  to restart the NS hardware.



Click 

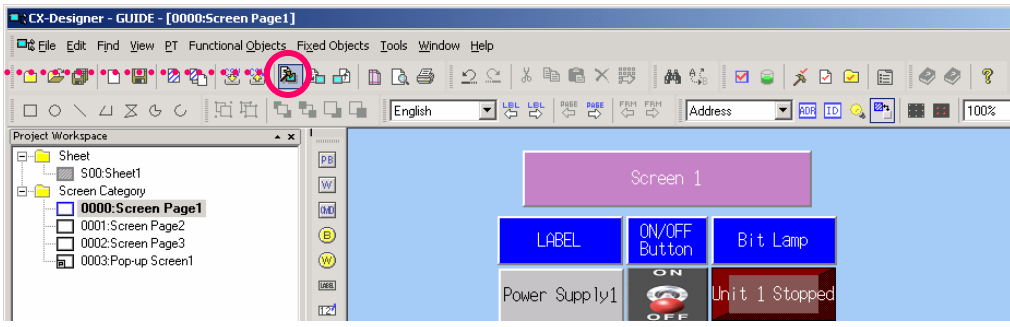




**2. Transferring project data using a memory card**

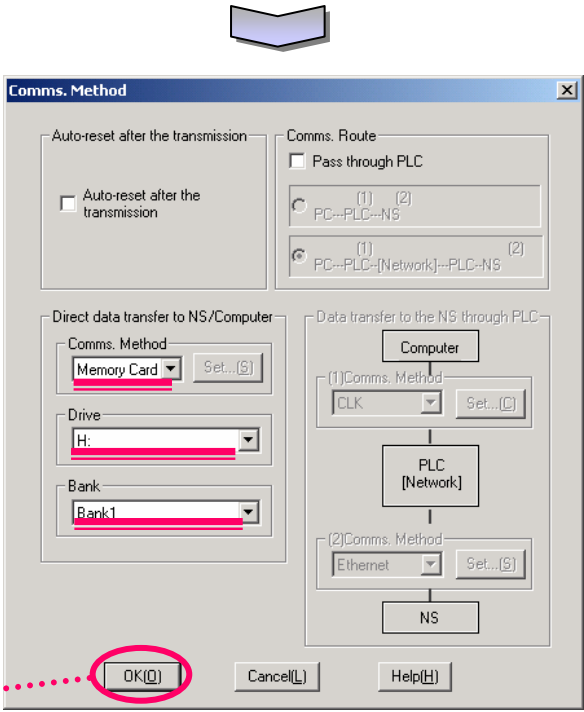
Before you start...  
Install the memory card to the personal computer.

Click



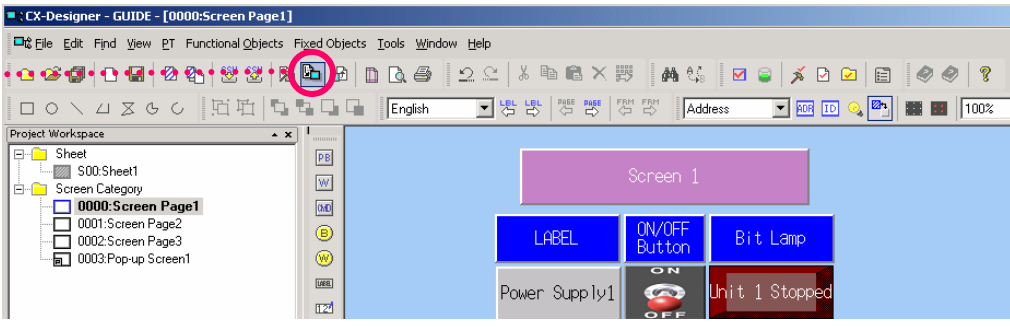
Change the settings to the "Direct data transfer to NS/Computer" on the Comm. Method dialog.

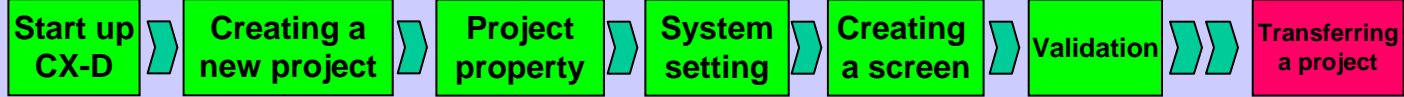
- [Comms. Method] → "Memory Card"
- [Drive] → "H"
- \*Select the drive to which the memory card is installed.
- [Bank] → "Bank 1"
- \*There are four banks available for memory cards. One project is downloaded to a bank. Here, you specify the bank to be transferred.



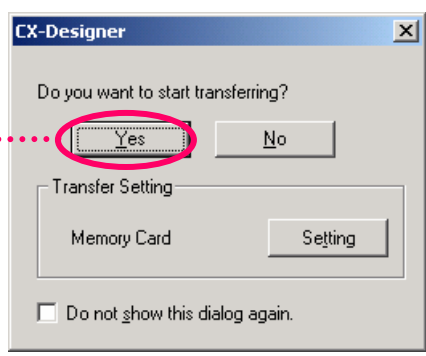
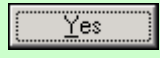
Click

Click

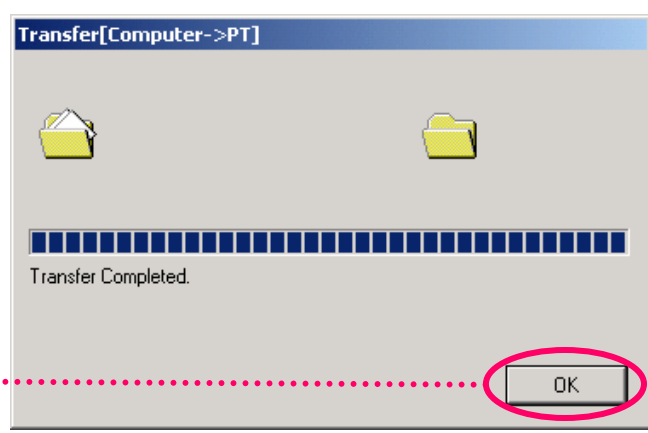
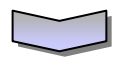
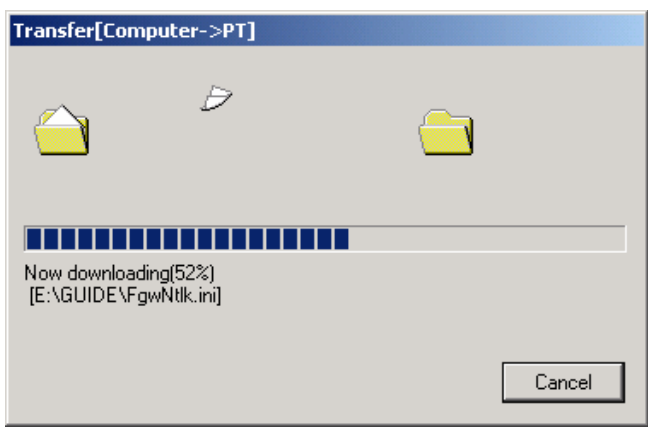




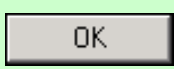
Click Yes

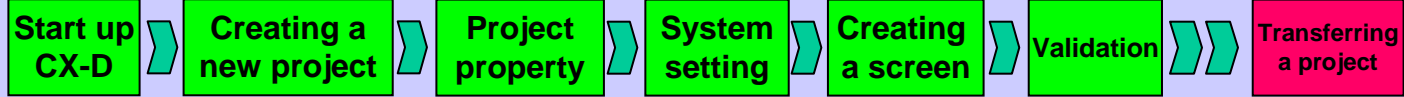


The transfer processing dialog appears.



Click



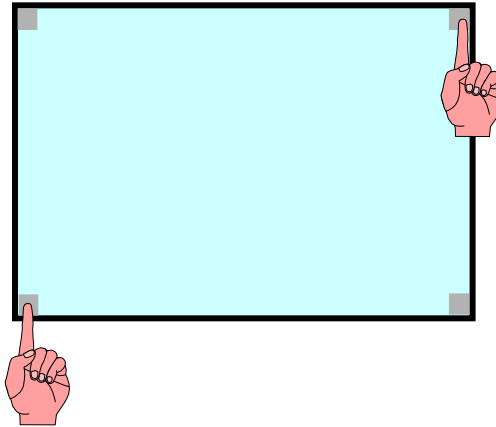


**-Transfer data from a Memory Card to a personal computer-**

Before you start...

Install the memory card to the memory card slot.

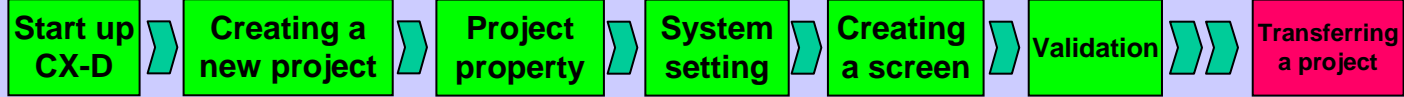
Press two any corners on the NS hardware simultaneously to display the system menu.



Press the "Special Screen" tab.

Press "Memory Card Transfer".

Press the "START" button.



Press "English".

終了 Exit

### Memory Card Transfer

メモ리카ードを挿入して表示言語を選択してください

Insert your Memory Card and select Language

日本語 Japanese      英語 English



Press "Download Memory Card → NS"

Press "Project".

Press "Bank 1".

Press "Go".

Exit

### Memory Card Transfer

Direction: Download Memory Card → NS Hardware      Upload NS Hardware → Memory Card

Contents: Project      Project&System      System

Project File Memory Card: GUIDE, IPP      NS H/W: GUIDE, IPP

System Version Memory Card: 6.20\_      NS H/W: 6.20\_

Bank Select: Bank 1      Bank 2      Bank 3      Bank 4

Go!



Press "OK [Transmit]".

Are you sure to execute Downloading/Uploading?

OK [Transmit]      Cancel [Return]

Start up  
CX-D

Creating a  
new project

Project  
property

System  
setting

Creating  
a screen

Validation

Transferring  
a project

Now Downloading...

Memory Card → NS Hardware

File Name: HLKNetTb1.ini



Transmission Complete

Memory Card → NS Hardware

You may safely remove the Memory Card. Press the reset button to restart the NS after removing the Memory Card.

Reset

Press "Reset" to restart the NS hardware.

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