The right choice for the ultimate yield!

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Human Machine Interface

XP-Manager

XGT Panel Series

User's Maunal





Safety Instructions

- Read this manual carefully before installing, wiring, operating, servicing or inspecting this equipment.
- Keep this manual within easy reach for quick reference,



Before using the product...

To use the product safely and effectively, please read this instruction manual thoroughly before use.

- Please keep to the safety precaution, for it is to prevent accidents and potential danger from occurring.
- Safety precaution is classified into 'Warning' and 'Caution' and their meanings are as follows.
 - **Warning** Violating the instruction may result in serious personal injury or death.
 - Caution Violating the instruction may result in slight personal injury or product damage.
- ► The indicated illustrations on the product and in the manual have the following meanings.
 - !\ Be cautious, for danger may be present.
 - Be cautious, for there is a possibility of an electric shock.
- After reading the instruction manual, keep it handy for quick reference.

Design Precautions

⚠ Warning

▶ Install a safety circuit external to the HMI to protect the whole control system in case of external power supply trouble.

Serious trouble may occur to the entire system due to erroneous output/operation of the HMI.

Design Precautions



▶ In/output signal or communication cable should be at least 100mm apart from High-voltage/power wires.

Otherwise, it may cause erroneous output/operation.

Installation Precautions

△ Caution

Use the HMI in an environment that meets the general specification contained in this manual or datasheet.

Otherwise, it could result in electric shock, fire, erroneous operation or deterioration.

In case of much vibration in the installed environment, be sure to insulate the HMI from direct vibration.

Otherwise, it could result in electric shock, fire or erroneous operation.

▶ Be sure not to let foreign substances such as conductive debris inside the product.

Otherwise, it could result in electric shock, fire or erroneous operation.

Wiring Precautions

⚠ Warning

▶ Be sure to turn off the HMI and external power before wiring.

Otherwise, it may result in an electric shock or damage to the product.

Wire correctly by checking each of the product's rated voltage and terminal layout.

Otherwise, it may result in fire, electric shock or erroneous operation.

Tighten terminal screws with specified torque when wiring.

If terminal screws are loose, it may result in short circuits, fire or erroneous operation.

Use the exclusive HMI 3-type grounding for the FG terminal.

If not grounded, it may result in erroneous operation.

▶ Be sure not to let any foreign substances such as wiring debris inside the module.

Such debris may cause fire, damage or erroneous operation.

Startup and Maintenance Precautions

⚠ Warning

Do not touch the terminals while power is on.

Otherwise, it may cause electric shock or erroneous operation.

▶ Turn off the PLC and external power when cleaning or tightening the terminal.

Otherwise, it may cause electric shock or erroneous operation.

Do not charge, disassemble, heat, short circuit, solder, etc. the battery.

Mishandling the battery may cause overheating, crack, fire and may result in injury or fire.

△ Caution

▶ Do not disassemble PCB from the product case or modify the product.

Otherwise, it may result in fire, electric shock or erroneous operation.

Use cellular phone or walky-talky at least 30cm away from the PLC.

Otherwise, it may result in erroneous operation.

Disposal Precaution



When disposing of this product or battery, treat it as industrial waste.

Otherwise, it may cause poisonous pollution or explosion.

Revision History

Version	Date	Contents	Revised page
V 1.0	'10.6	First Edition	-
V 1.1	'10.12	Web server added	Ch13
V1.2	'11.5	Excel work added	Ch7,Ch15,Ch16,Ch17
V3.10	'20.04	evision due to the change of company name (LSIS $ ightarrow$ LS ELECTRIC)	

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 $[\]ensuremath{\mathbb{X}}$ The user manual's number is indicated at the right of back cover.

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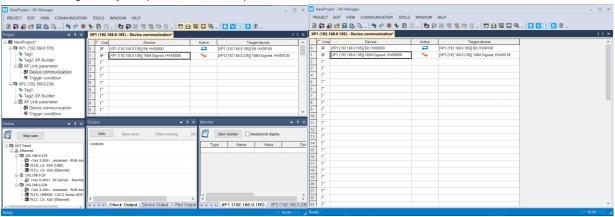
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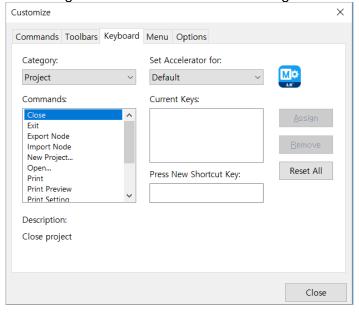
1.1 The characteristics of XP-Manager

XP-Manager that supports various functions of XGT Panel realizes data communication between XGT Panels through XP Link. This software has the below characteristics and strong points.

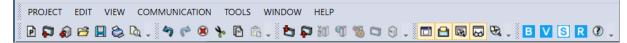
(1) You can change freely the position and composition of a screen.

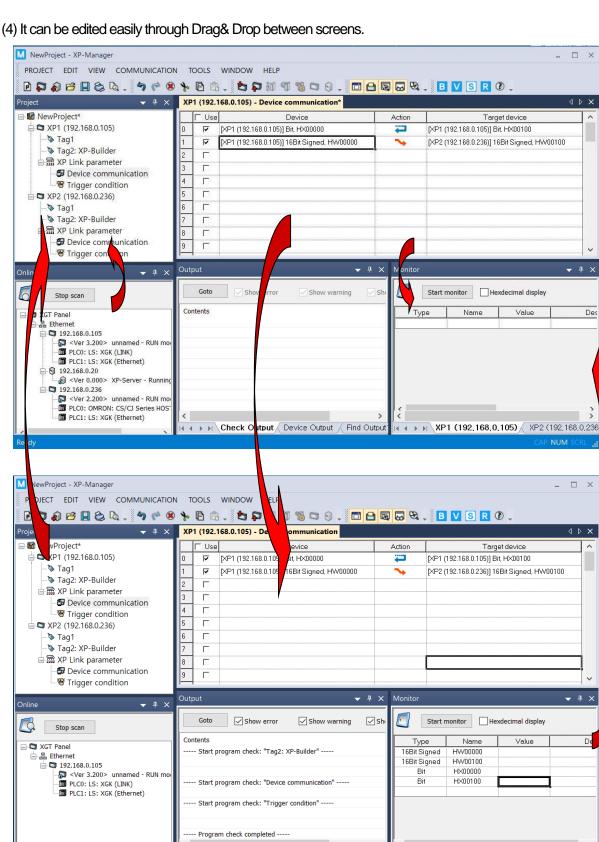


(2) It can be changed for the convenience of users through user defined hot key and tool bar.



(3) It is composed of shortcut icon for a user to apply the functions more easily.



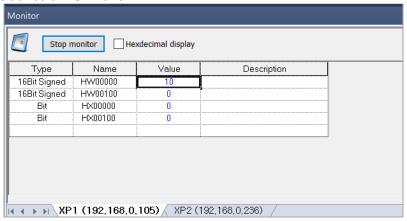


← ← → → Check Output Device Output / Find Output

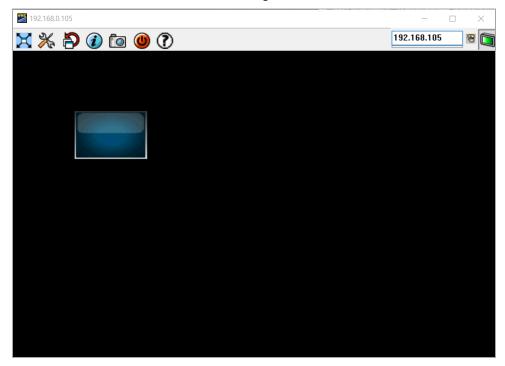
XP1 (192,168,0,105) XP2 (192,168,0,236

Chap.1 Starting

- (5) You can freely perform Undo and Redo at edition screen.
- (6) You can monitor the device of XGT Panel.



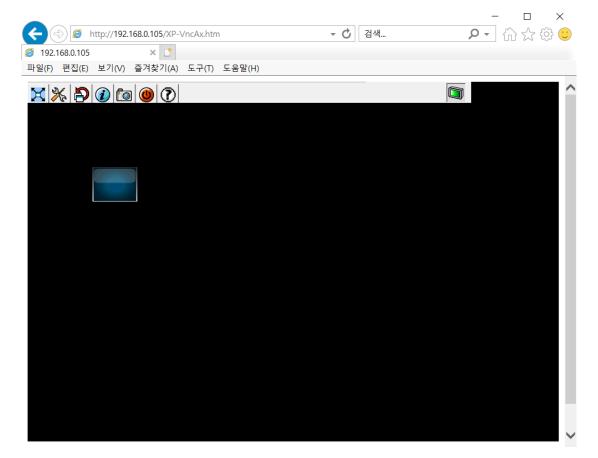
(7) You can monitor the screen of XGT Panel at PC through VNC function.



(8) You can download the backup file of XGT Panel through web server.



(9) You can monitor the screen of XGT Panel through web-server.



1.2 System Requirements to execute XP-Manager

(1) Personal computer and memory

The computer with Pentium 4 CPU and 512MB memory or more is needed.

(2) Communication Port

Ethernet Port is required.

(3) Hard Disk

The available area of 100MB or more is required.

(4) Mouse

A mouse to be connected to a computer is needed.

(5) Monitor

The resolution should be more than 1024 x 768.

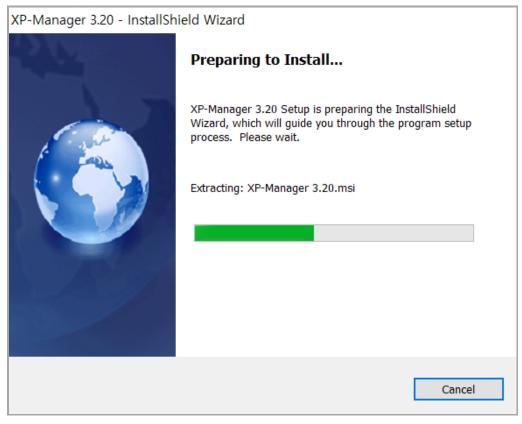
(6) Computer Operation System

It can be executed at Windows 2000 version or more.

1.3 XP-Manager Installation

[Installation Procedures]

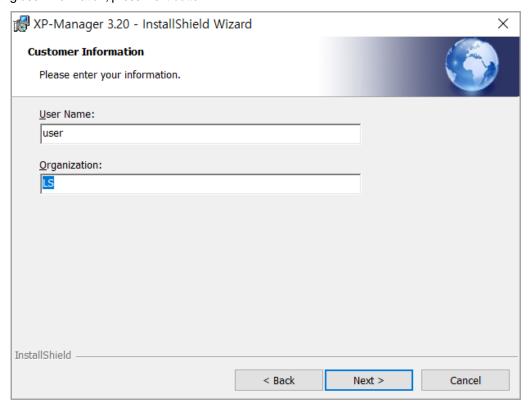
- (1) Execute the installation file.
- (2) Select the language to be installed.
- (3) Installation Wizard prepare for installation as below.



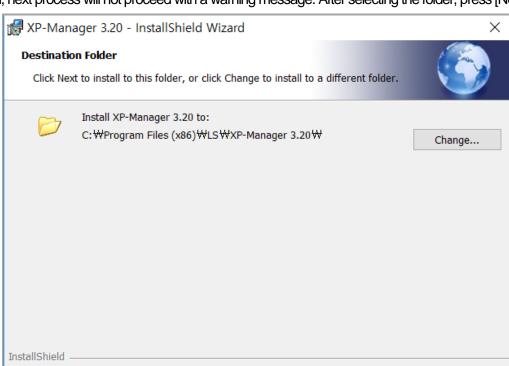
(4) Starting XP-Manager installation will be displayed as below. Press [Next] button to continue installation.



(5) After inputting user information, press Next button.



(6) Designate the position of folder where XP-Manager will be installed. XP-Manager requires the space of approximately 100MB for installation so check the installation folder has enough space. If installation space is not



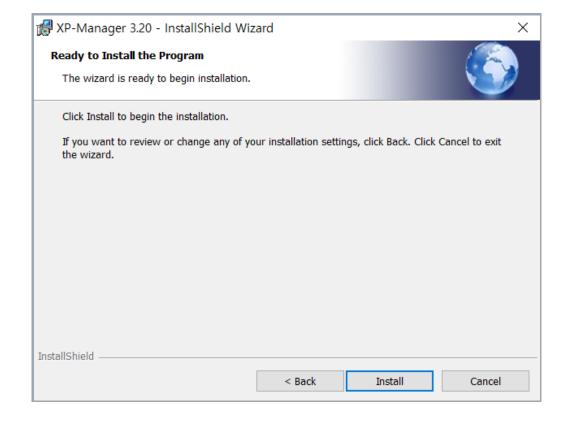
< Back

Next >

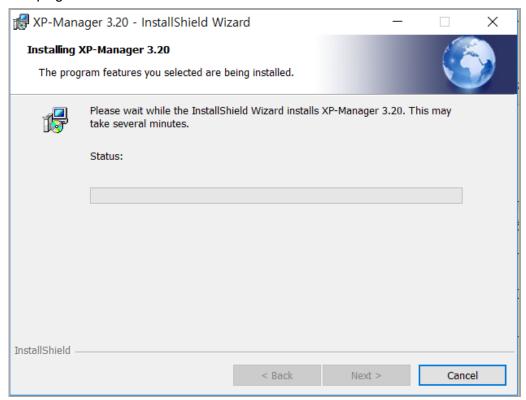
Cancel

enough, next process will not proceed with a warning message. After selecting the folder, press [Next] button.

(7) It is ready to be installed. If you press Installation button, installation process will start.



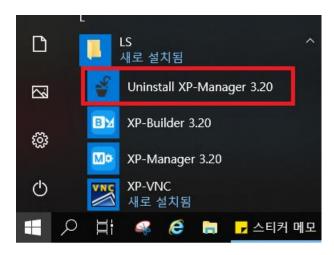
(8) It shows the progress status of installation.



(9) If you press Finish, installation process will be terminated normally.



(10) You can work by executing XP-Manager at [Start] menu or executing Shortcut icon of home screen.

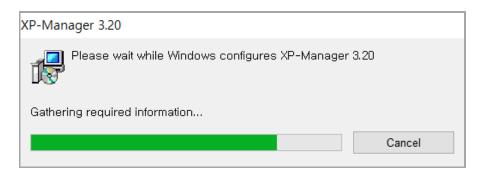


[Deletion Procedures]

- (1) To delete XP-Manager, select [XP-Manager Deletion] at [Start Menu] or apply [Add/Remove Programs] function of control board.
- (2) Select Yes.

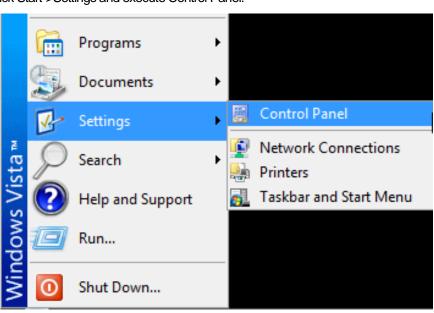


(3) The information of installed programs is collected and program deletion will be in progress.

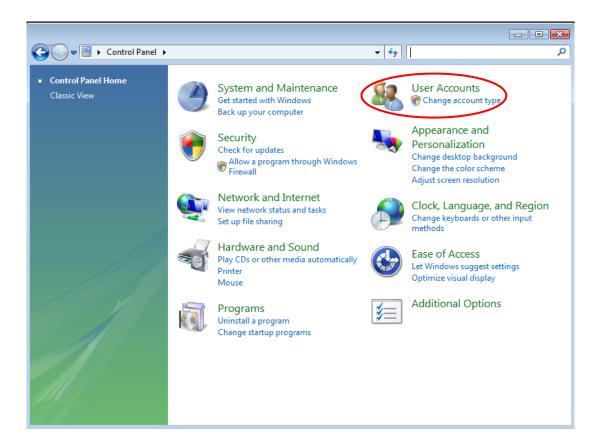


Notice

- (1) In case that XP-Manager is in progress, you can not delete it. Then, after terminating XP-Manager first, delete it.
- (2) For installation under Windows Vista and Windows 7, note the below.
 - * You are required to log in as an Administrator to install XP-Builder.
 - * After installation, set up the security procedures as below.
 - 1) Click Start->Settings and execute Control Panel.

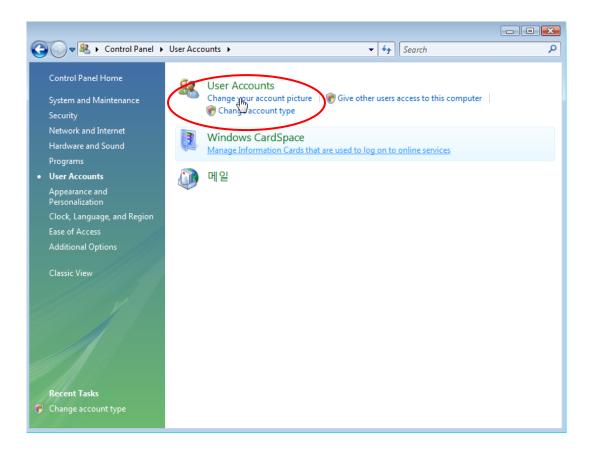


2) Click Control Panel->User Accounts.

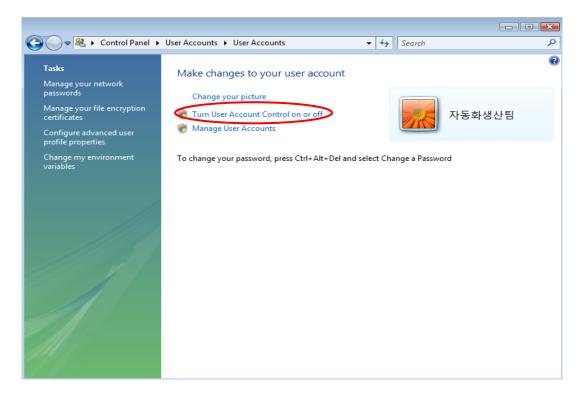


3) Click the related icon at a user accounts setting screen.

Chap.1 Starting



4) Click Turn User Account Control on or off at User Administrator at User Account Setup screen.



5) Disable [Use user Account Control to help protect your computer]. ② ♥ ¾ « User Accounts ➤ Turn User Account Control On or Off ▼ 🍕 Search Turn on User Account Control (UAC) to make your computer more secure User Account Control (UAC) can help prevent unauthorized changes to your computer. We recommend that you leave UAC turned on to help protect your computer. Use User Account Control (UAC) to help protect your computer Cancel V

Chap.2 XP-Manager Outline and Practice

2.1 XP-Manager Outline

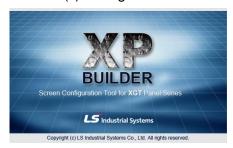
2.1.1 Definition of XP-Manager

It is the software for edition, download, monitoring to realize data communication between XGT Panels through XP Link with online control function.

2.1.2 The interrelation of XP-Manager and XP-Builder

XP-Builder is the software to draw the screen of XGT Panel. It can be saved as a project file (XPD file) or you can also download the project to XGT Panel. XP-Manager opens the project file (XPD file) made by XP-Builder and collects PLC Driver, Tag information to apply them.

(a) Using the XPD file of a computer











Using the uploaded project of XGT Panel









Notice

- (1) The project file (XPD file) made by XP-Builder version 1.21 or more is available,
- (2) It is available at XGT Panel version 1.21 or more.
- (3) For details, refer to Chap. 4.1.

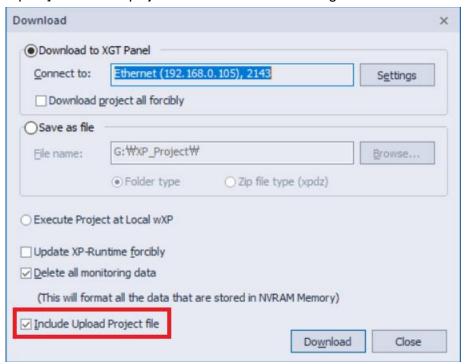
2.2 Practice

A user can briefly learn how to use XP-Manager through the below practice processes.

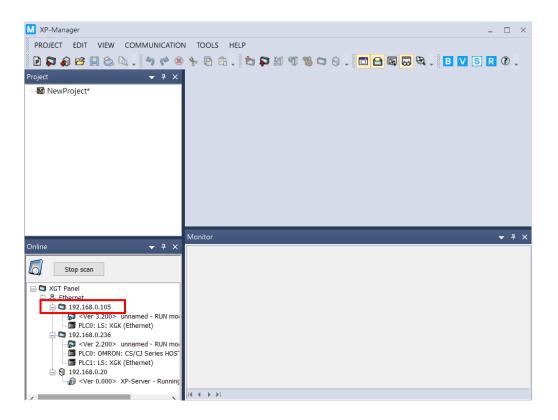
2.2.1 Adding Node

[Procedures]

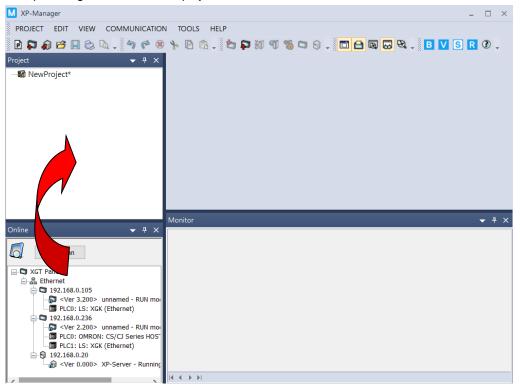
- (a) Select [Start Menu]-[Program]-[LS]-[XP-Manager] and execute XP-Manager.
- (b) Turn on the power of XGT Panel.
- (c) Download "LS: XGK (CPU)" project through XP-Builder and make sure to activate [Include upload project file option] to check the project information from XP-Manager.

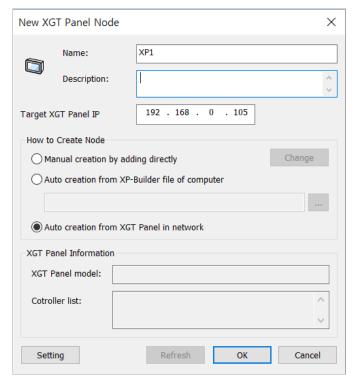


(c) Check whether there is the target XGT Panel at online screen of XP-Manager.



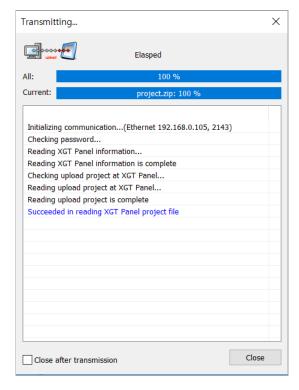
(d) Drag & Drop the target XGT Panel to a project screen.





(e) If the dialog box to add a new node is shown, press OK button.

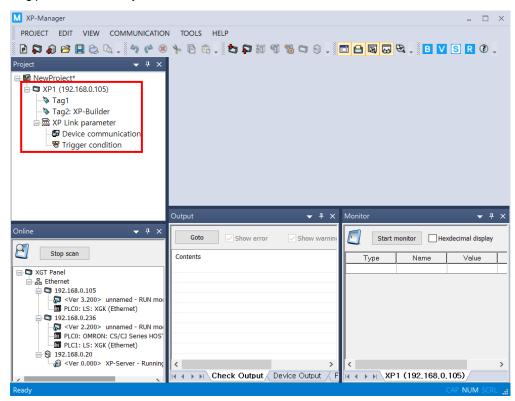
Read the project file (XPD file) through communication.



Chap.2 XP-Manager Outline and Practice

Notice

- (1) In case that the target XGT Panel is less than version 1.21, you can not upload a project file.
- (2) If there is no uploaded project at the target XGT Panel, upload is not available.
- (3) For details, refer to the Chap. 4.1.
- USB cable is scheduled to be provided afterward.
 - (g) If reading process is normally over, node will be added.

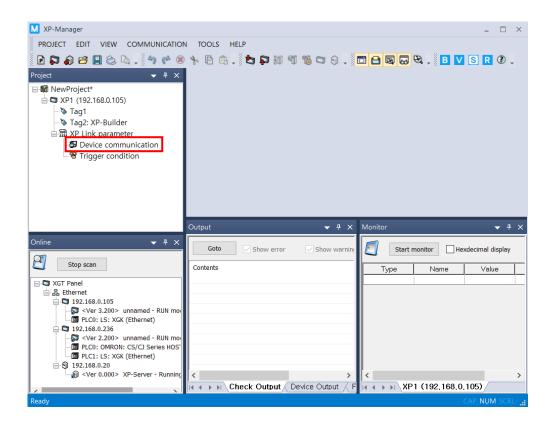


2.2.2 Editing Device Communication

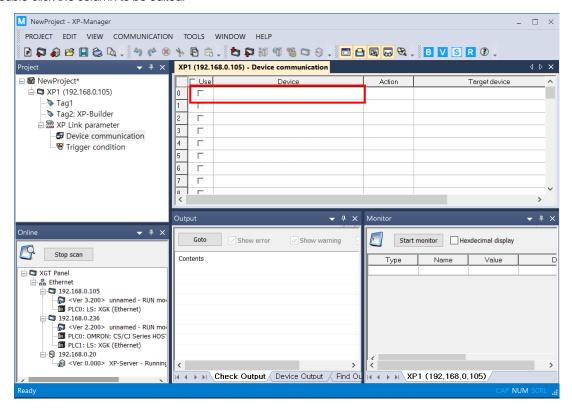
You are required to make the below parameters for device communication between XGT Panels through XP Link.

[Procedures]

- (a) Add two or more nodes to a project.
- (b) Double-click Device Communication at a project screen to open it.

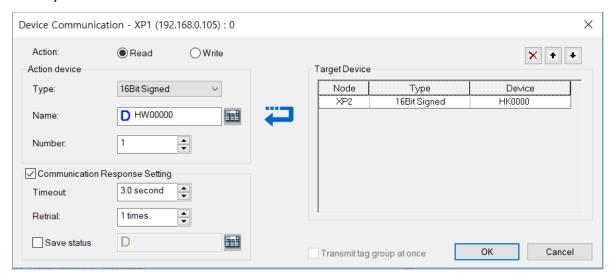


(c) Double-click the column to be edited.

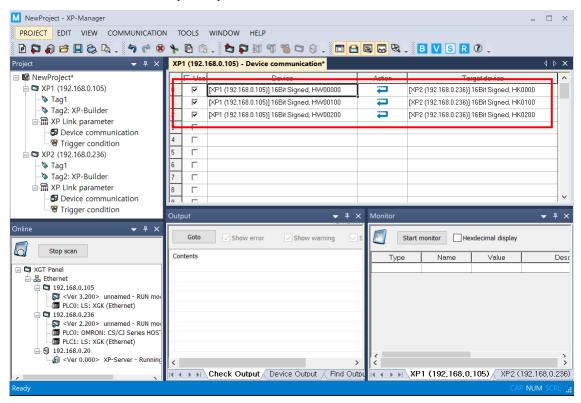


(d) After selecting reading or writing mode depending on required operation, you can edit operation device

and object device.



(e) Edit the device communication as you may need.

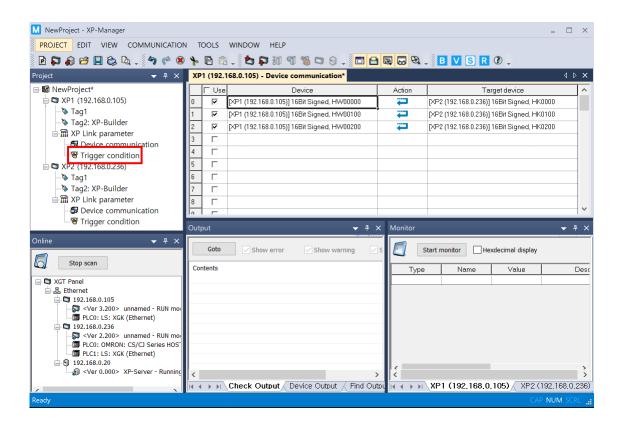


2.2.3 Editing Trigger Condition

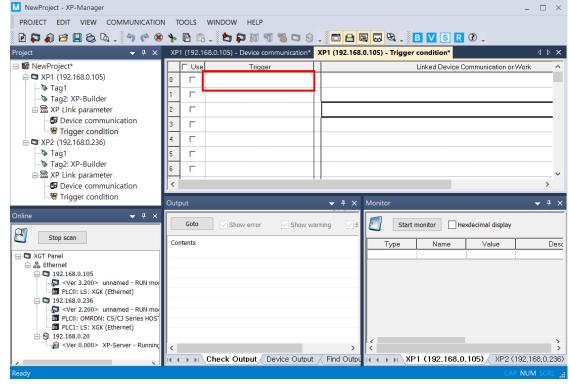
You can edit trigger condition when specific condition is fulfilled or in order to start an event at the proper time.

[Procedures]

(a) Double-click trigger condition at a project screen.

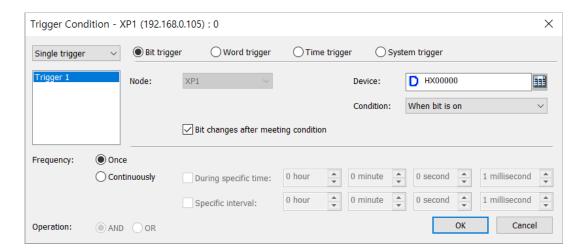


(b) Double-click the column to be edited.

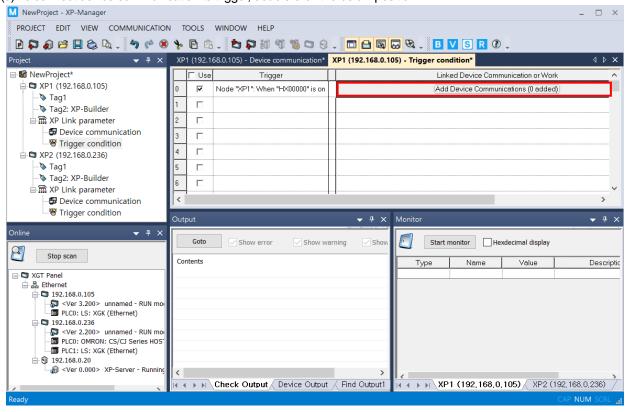


(c)After editing bit device, word device, time trigger, system trigger depending on the required conditions, edit them.

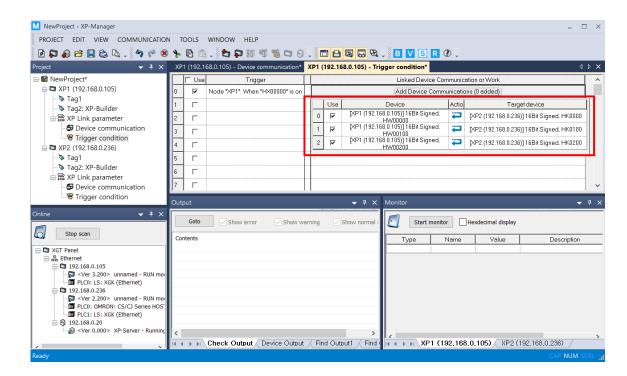
Chap.2 XP-Manager Outline and Practice



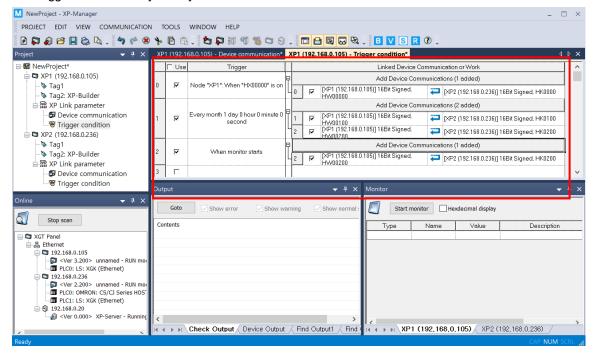
(d) To connect device communication to trigger, double-click the below position.



(e) Double-click the device communication to be connected from the list.



(f) Edit the trigger conditions as you may need and connect device communication.

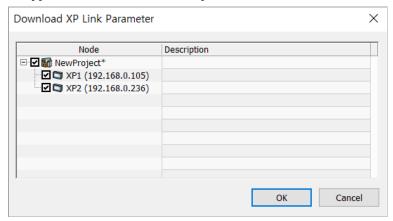


2.2.4 Downloading XP Link Parameter

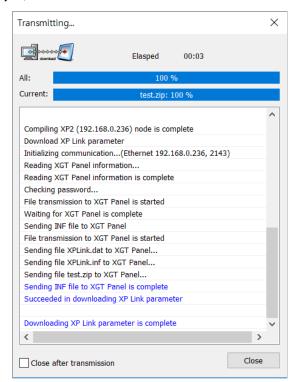
You need to download parameters for data communication between XGT Panels.

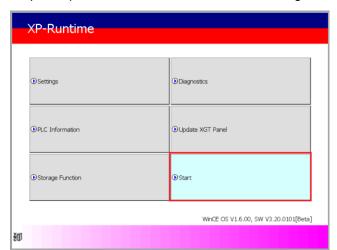
[Procedures]

- (a) Save the project.
- (b) Select [Communication]-[Download XP-Link Parameter] menu.



(c) After checking the target object, download it.





(d) If download process is completed, press XGT Panel Start button for monitoring.

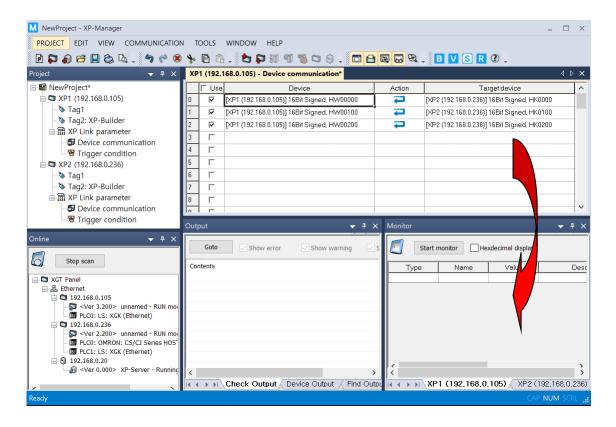
Check if device communication works smoothly and device values are properly displayed based on established trigger conditions.

2.2.5 Monitoring

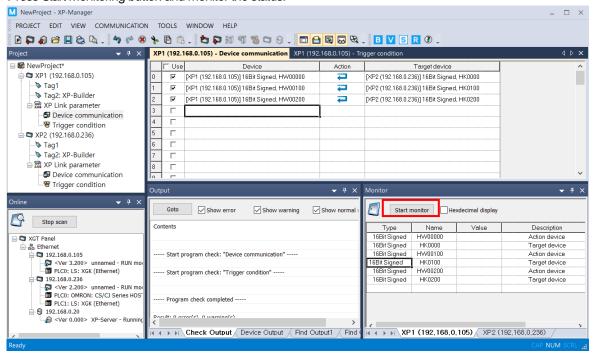
To check if device communication and trigger condition work properly, you may need a remote computer. You can easily check the status through monitoring function.

[Procedures]

- (a) Save the project.
- (b) After selecting the items to be monitored at device communication screen or trigger condition screen, Drag & Drop them to a monitoring screen.



(c) Press Start Monitoring button and monitor the status.



(d) If communication works properly, the registered device value will be displayed.

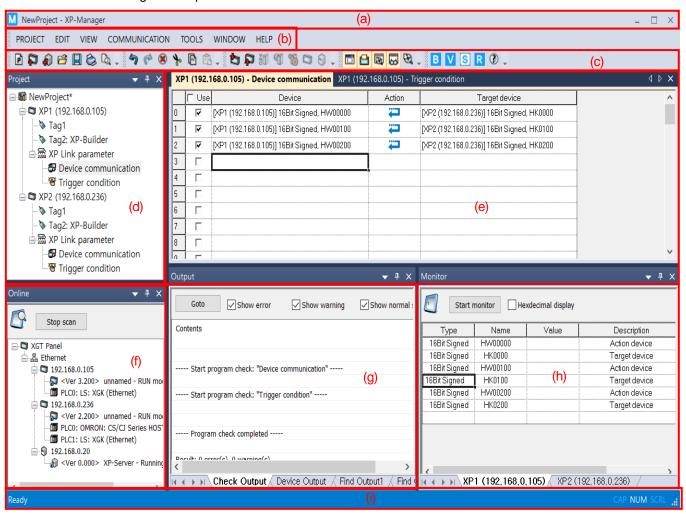
Chap.2 XP-Manager Outline and Practice

- (1) Only when XGT Panel is under monitoring process, XP-Manager can realize the function.
- (2) For details, refer to the Chap. 11.

Chap.3 Composition of XP-Manager

3.1 The Composition of a Screen

The screen of XP-Manager is composed of the below.



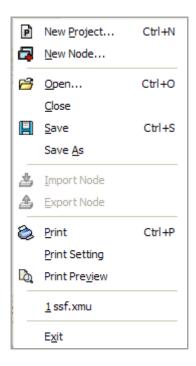
[Screen Description]

Item	Description		
Title Bar(a)	The tile is displayed as project name+ XP-Manager at Windows screen.		
Menu Bar(b)	It is the basic menu for the program.		
Too Bar(c)	The button is to execute shortcut menu.		
Project Screen(d)	It displays the components of a project. For edition, double-click the item.		
Edition Screen(e)	There are the screens for tag, device communication, and trigger condition.		
Online Screen(f)	It detects the XGT Panel of network.		
Output Screen(g)	It displays the result of program inspection or device search.		
Monitor Screen(h)	It can monitor the device of XGT Panel.		
Status Bar(i)	It displays the description of selected menu or operation.		

3.2 The Composition of Menu

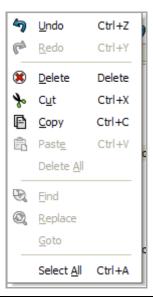
The description on XP-Manager menu will be provided. In the case of the menu where hot key is displayed, you can just press it to execute command.

(1) Project



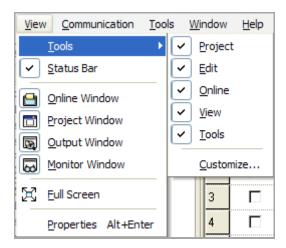
Command	Description
New Project	It closes opened project and creates a new project.
New Node	It adds node to a project.
Open	It closes opened project and open a new project.
Close	It closes opened project.
Save	It saves opened project.
Save as	Opened project is saved as another name.
Import Node	It imports the node exported previously.
Export Node	It exports selected node.
Print	It prints the current screen.
Print Settings	It changes the property of print
Print Preview	It previews the current screen before printing.
Latest Files	It shows the latest opened files.
Exit	It terminates XP-Manager.

(2) Edition



Command	Description
Undo Edition	It backs to the last edited contents. Edition data is operated
Office Edition	individually for each screen.
Redo Edition	It performs Redo Edition. Edition data is operated individually for
Tread Edition	each screen.
Delete	It deletes the selected item of active screen
Cut	It copies the selected item of active screen to a clipboard and cut it.
Сору	It copies the selected item of active screen to a clipboard.
Paste	It pastes the last copied item to the selected area.
Delete All	It deletes all items of active screen.
Find	It searches for the device
Replace	It changes the device.
Go to	It moves to the specific column of a screen.
Select All	It selects all items of active screen.

(3) View



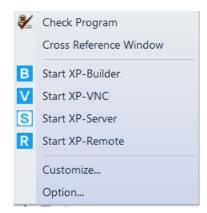
Command		Description
	Project	It hides project tool bar.
	Edit	It shows or hides edition tool bar.
Tools	Online	It shows or hides online tool bar.
10015	View	It shows or hides view tool bar
	Tools	It shows or hides tool bar.
	Customize	It can change menu, tool, hot key, etc.
Status Bar		It shows or hides status bar.
Online Window		It shows or hides online screen.
Project Window		It shows or hides project screen.
Output Window		It shows or hides output screen.
Monitor Window		It shows or hides monitor screen.
Full Screen		It hides all tool bars and menus to maximize the current screen.
Properties		It shows the registration information of selected item.

(4) Communication



Command	Description
Download XP Link Parameter	You can download XP Link parameter by selecting node.
Upload XP Link Parameter	You can upload XP Link parameter.
Manage XP-VNC Server	You can install, delete XP-VNC server of selected XGT Panel and change the operation mode.
Manage Web Server	You can install, delete web server of selected XGT Panel and change the operation mode.
Manage Driver	You can change RAPIEnet program monitor settings of selected XGT Panel.
Update XGT Panel	You can update XP-Runtime of XGT Panel.
XGT Panel Information	You can see the information of selected XGT Panel change the setting details.

(5) Tool



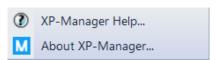
Command	Description
Check Program	You can check the error of opened project.
Start XP-Builder	You can execute XP-Builder.
Start XP-VNC	You can execute XP-VNC.
Start XP-Explorer	You can execute XP-Explorer.
Customize	You can change menu, tool, hot key, etc.
Option	You can change the options of XP-Manager.

(6) Screen



Command	Description
New Window	It opens another window that is the same with active one.
Close All	It closes all opened screens.

(7) Help



Command	Description
XP-Manager Help	It executes Help File for XP-Manager
About XP-Manager	It displays the version information and license details of XP-Manager.

3.3 The Composition of Tool Bar

(1) Project



Command	Image	Description
New Project	P	It closes opened project and creates a new project.
Add Node		It adds a node to a project.
Open	~	It closes opened project and open a new project.
Save		It saves opened project.
Print	8	It prints the current screen.
Print Preview	D ₀	It previews the current screen before printing.

(2) Edition



Command	Image	Description
Undo Edition	4	It backs to the last edited contents. Edition data is operated individually for each
		screen.
Redo Edition	P	It performs Redo Edition. Edition data is operated individually for each screen.
Delete		It deletes the selected item of active screen
Cut	*	It copies the selected item of active screen to a clipboard and cut it.
Сору		It copies the selected item of active screen to a clipboard.
Paste		It pastes the last copied item to the selected area.

(3) Online



Command	Image	Description
Download XP Link Parameter	Ð	You can download XP Link parameter by selecting node.
Upload XP Link Parameter	Q.	You can upload XP Link parameter.
Manage XP-VNC Server	× O	You can install, delete XP-VNC server of selected XGT Panel and change the operation mode.
Manage Web Server		You can install, delete web server of selected XGT Panel and change the operation mode.
Manage Driver	59	You can change RAPIEnet program monitor settings of selected XGT Panel.
Update XGT Panel	Ø	You can update XP-Runtime of XGT Panel.
XGT Panel Information		You can see the information of selected XGT Panel change the setting details.

(4) Window



Command	Image	Description
Project Window		It shows or hides project Window.
Online Window		It shows or hides online Window.
Output Window		It shows or hides output Window.
Monitor Window	[[3]	It shows or hides monitor Window.

(5) Tool



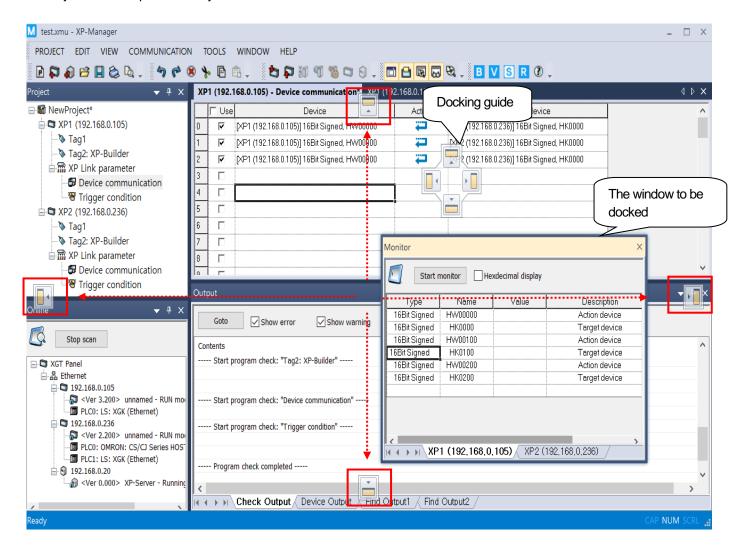
Command	Image	Description
Start XP-Builder	В	It executes installed XP-Builder.
Start XP-VNC	V	It executes XP-VNC.
XP-Server	S	It executes XP-Server
Help	②	It executes Help File.

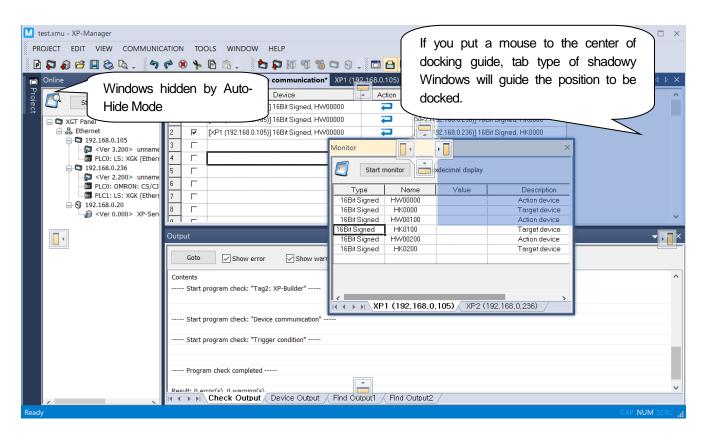
3.4 Docking Window

The windows (project screen, online screen, output screen, monitor screen) that you can see from View Menu can be docked. You can adjust the position and size of windows and they can be docked to any position. Furthermore, you can keep docking screen being floated or use Auto-Hide function.

(1) Moving the position of docking screen

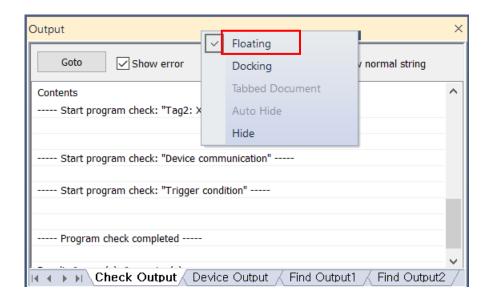
The below is docking position guile line that is shown when moving tool screen. If you drag and move the title of the screen, docking guide will be shown at the screen. If you put the screen to the center of docking guide, it will be docked to your intended position easily.





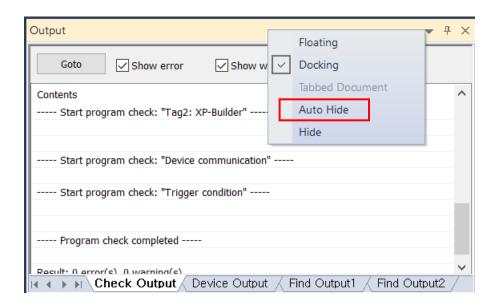
(2) Changing into floating Windows

Select [Floating] menu by clicking docking window title to be floated with a right mouse button.



(3) Auto-Hide Mode

If you select [Auto-Hide] menu on the title of docking window or press a tack button of below docking window, windows will disappear automatically.



Chap.4 Project

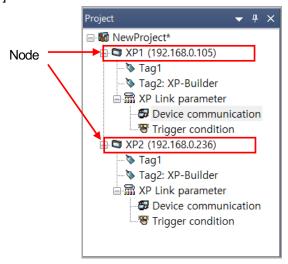
4.1 Add Nodes

XP-Manager creates automatically blank project at the moment it is executed. Then, you can directly add nodes.

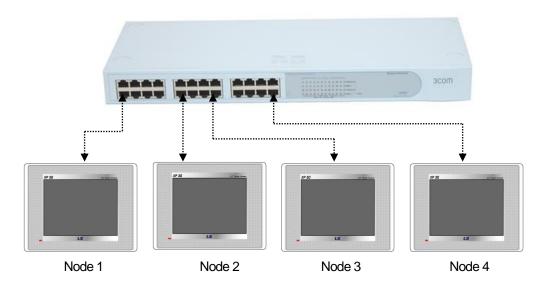
The Definition of Node 4.1.1

A node means one termination XGT Panel between XP Link communications. The IP of nodes cannot be overlapped. Nodes have the information on XGT Panel type, PLC Driver, Device communication, trigger condition, tag of the project.

[Nodes of XP-Manager]



[Nodes of Network]



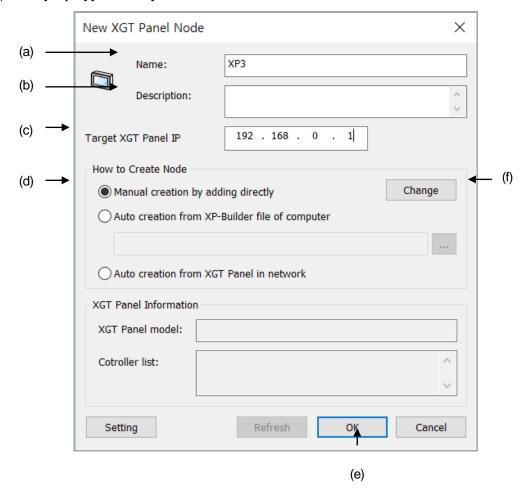
Notice

- (1) The IP of node cannot be overlapped within XP-Manager.
- (2) The IP of XGT Panel cannot be overlapped in network. In case that the IP is overlapped, unexpected error can occur due to IP conflict. In this case, contact the network administrator to solve the problem.

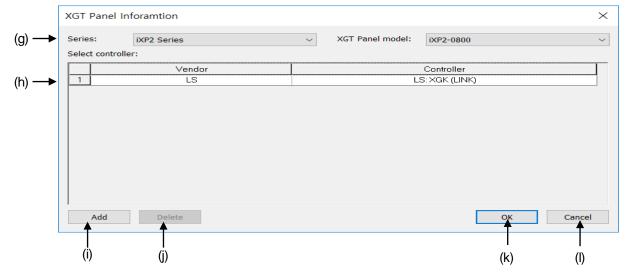
4.1.2 Manual Configuration by adding nodes directly

[Procedures]

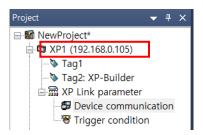
(1) Select [Project]-[New Node] menu.



- (2) Input the name of node (a) and the target XGT Panel's IP address(c).
- (3) Select [Manual creation by adding directly] (d) button.
- (4) Press Change (f) button and add XGT Panel and PLC Driver.



- (5) Change the type of XGT Panel and select the type.
- (6) Select the vendor and controller (h). If necessary, press Add (i) button, add a controller.
- (7) Press OK (I) button to save the contents.
- (8) Press OK (e) button to add a node.
- (9) Add a node to project screen.

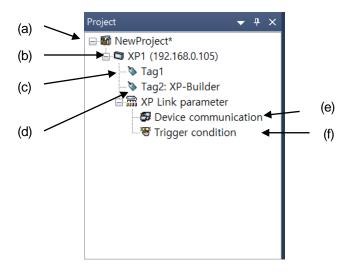


[Description on a dialog box]

Item	Description
Name (a)	The name of node can be input up to 255 characters and special characters are also available.
	However it cannot be overlapped with other node name.
Description(b)	You can input comment without length limit.
Target XGT Panel's IP	It inputs the IP address of the only XGT Panel in network and it cannot be overlapped within
address (c)	project.
Manual creation by	You can input manually the information of XGT Panel and PLC Driver for your convenience.
adding directly (d)	
OK(e)	It saves the contents of a dialog box and closes it and adds a node.
Change(f)	It can change the model of XGT Panel or add/change/delete PLC Driver.
XGT Panel Model(g)	You can select the model of XGT Panel.
Select Controller (h)	It shows the manufacturer and PLC driver list.
Add(i)	You can add PLC Driver up to 4EA.
Delete (j)	It deletes the selected PLC Driver from the list. In case that there is only one driver, you cannot
	delete it.
OK(k)	It saves the changed contents and closes a dialog box.

Undo(I)	It closes a dialog box without saving the changed contents.
---------	---

[Screen]

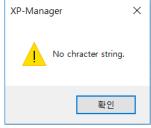


[Description on screen]

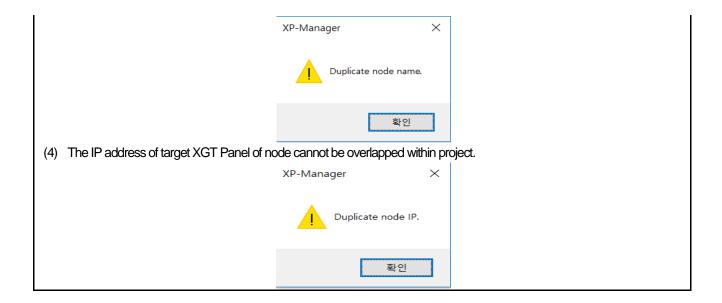
Item	Description
Project(a)	The name of project is displayed.
Node (b)	The name of node and target XGT Panel's IP address are displayed.
Tag 1(c)	The tag can be declared at XP-Manager.
Tag 2: XP-Builder(d)	In case of node uploaded from XGT Panel or added from XP-Builder file, it is the tag declared by XP-Builder,
Device Communication(e)	It can define the communication contents between nodes.
Trigger Condition (f)	It can designate the operation condition of device communication.

Notice

- (1) The name of node can be designated up to 255 characters.
- (2) If there is no name of node, it cannot be set as node.



(3) The name of node cannot be overlapped within project.

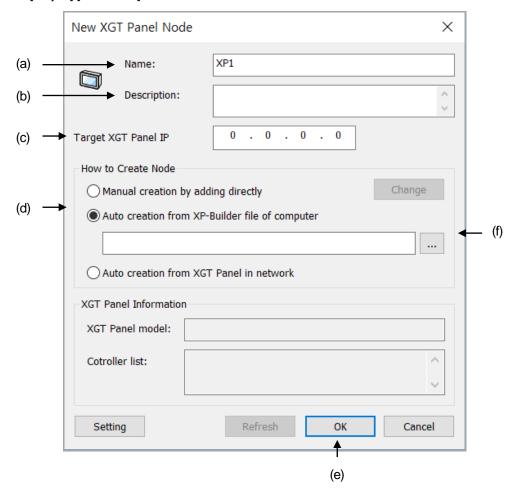


4.1.3 Automatic Configuration form XP-Builder file of a computer

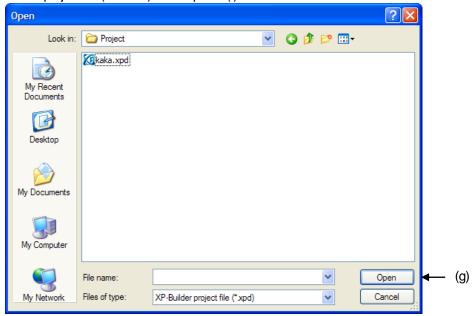
You can add nodes through the project file (XPD file) made by XP-Builder.

[Procedures]

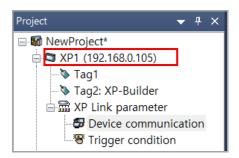
(1) Select [Project]-[New Node] menu.



- (2) Input the name of node (a) and IP address(c) of XGT Panel.
- (3) Select (d) button [Auto creation from XP-Builder file of a computer.
- (4) Search for XP-Builder project file (XPD file) with Explorer (f) button.



- (5) Press Open (g) button after finding XP-Builder project file.
- (6) Press OK (e) button to add node.
- (7) Node will be added to the project screen.



[Description on a dialog box]

Item	Description
Name (a)	The name of node can be input up to 255 characters and special characters are
	also available. However it cannot be overlapped with other node name.
Description (b)	You can input comment without length limit.
Target XGT Panel's IP address (c)	It inputs the IP address of the only XGT Panel in network and it cannot be
	overlapped within project.
Auto creation from XP-Builder	You can open XP-Builder file(XPD file) and import the information of XGT Panel
file of a computer (d)	type and PLC Driver, tag to configure node.
OK(e)	It saves the contents of a dialog box and closes it and adds a node.
Change(f)	It can change the type of XGT Panel or add/change/delete PLC Driver.
Open(g)	It opens selected file.

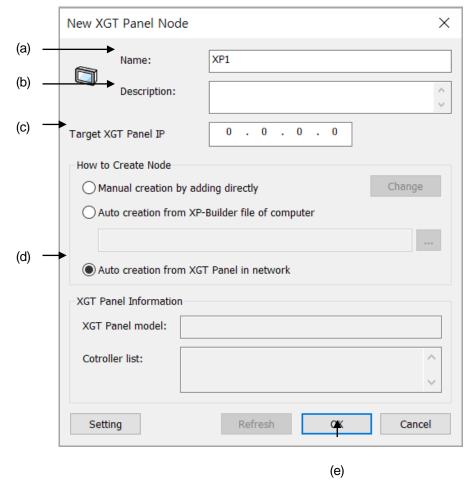
Notice (1) You cannot open the XP-Builder file made by under XP-Builder 1.21. (2) You can re-use the tag made by XP-Builder but edition is not available. Project ▼ ‡ × □ XP1 (192.168.0.105) --- 🐌 Tag1 ---∛ Tag2: XP-Builder A XP Link parameter Device communication Trigger condition

4.1.4 Auto Creation from XGT Panel in Network

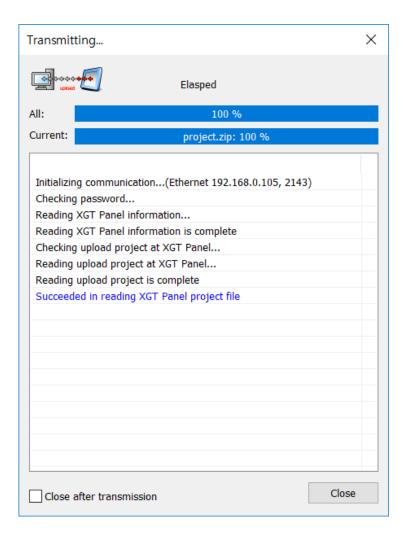
You can upload XP-Builder project from XGT Panel in network and add a new node. XP-Builder project file is uploaded from the target XGT Panel.

[Procedures]

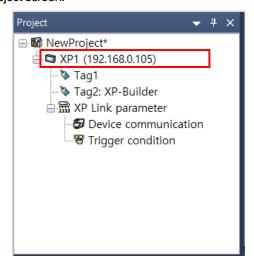
(1) Select [Project]-[New Node] menu.



- (2) Input the name of node (a) and IP address(c) of target XGT Panel.
- (3) Select Automatic Configuration (d) button from XGT Panel of network.
- (4) Press OK (e) to add a node.
- (5) Communication dialog box will be shown and the project is uploaded from XGT Panel.



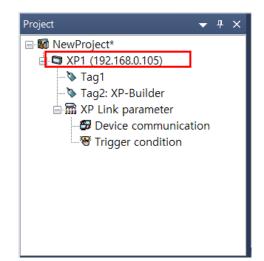
(6) The node is added to a project screen.



[Description on a dialog Box]

Item	Description
Name (a)	The name of node can be input up to 255 characters and special characters are
	also available. However it cannot be overlapped with other node name.
Description(b)	You can input comment without length limit.
Target XGT Panel's IP address (c)	It inputs the IP address of the only XGT Panel to be uploaded in network and it can
	not be overlapped within project.
Auto creation from XGT Panel in	It reads the uploaded project from XGT Panel of IP address in target XGT Panel
network (d)	and adds a node.
OK(e)	It saves the contents of a dialog box and closes it and adds a node.
Change(f)	It can change the type of XGT Panel or add/change/delete PLC Driver.
Open(g)	It opens selected file.

- (1) In case that password is set for XGT Panel, you need to check the password for upload.
- (2) You cannot open the XP-Builder file made by under XP-Builder 1.21.
- (3) You can re-use the tag made by XP-Builder but edition is not available.

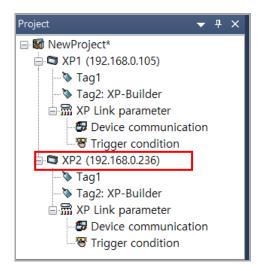


4.2 Node Deletion

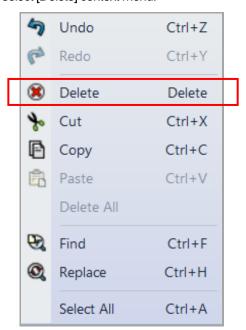
You can delete the added node.

[Procedures]

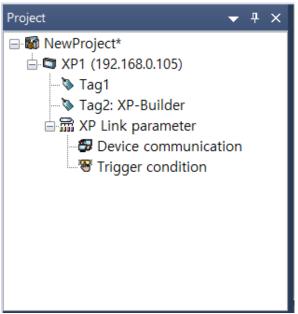
(1) Select the node to be deleted from a project screen.



(2) Select [Edit]-[Delete] menu or select [Delete] context menu.



(3) Then, the node is deleted.



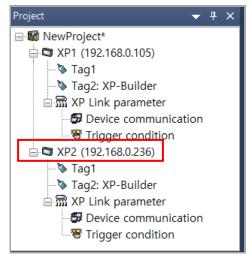
- (1) You cannot restore the deleted node with Undo Edition.
- (2) It is possible there is no node in project.

4.3 Changing the Properties of Node

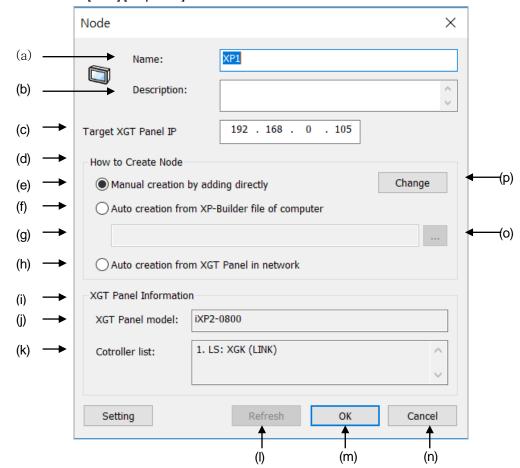
You can change the properties of added node.

[Procedures]

(1) Select the node whose properties should be changed from a project screen.



(2) Select or double-click [View]-[Properties].



(3) After changing the properties of node, save it with OK button.

[Description on a dialog Box]

Item	Description
Nome (a)	The name of node can be input up to 255 characters and special characters
Name (a)	are also available. However it cannot be overlapped with other node name.
Description(b)	You can input comment without length limit.
Target XGT Panel's IP address (c)	It inputs the IP address of the only XGT Panel in network and it cannot be
raiget AGT Failers IF address (c)	overlapped within project.
How to create node (d)	In case that the method to configure node is changed, it is renewed from the file
How to create hode (d)	and the file and XGT Panel.
Manual creation by adding directly(e)	You can manually input the information of XGT Panel and PLC Driver for your
ivialidal creation by adding directly(e)	convenience.
Auto creation from XP-Builder file of a	It opens XP-Builder project file(XPD file) and imports the information on XGT
computer(f)	Panel type and PLC Driver, tag to configure a node.
Position of XP-Builder project file(g)	It shows the selection route of XP-Builder file (XPD file).
Auto creation from XGT Panel in	It reads the uploaded project from the IP address of target XGT Panel and
network (h)	adds a node.
XGT Panel Information (i)	It shows the information of XGT Panel and PLC Driver saved at a node.
XGT Panel model (j)	It shows the information of XGT Panel saved at a node.
Controller List (k)	It shows the information of PLC Driver saved at a node.
	In case that a node is XP-Builder configured automatically from XP-Builder file
Refresh(I)	of a computer or it is configured automatically from XGT Panel of network, it is
	active. For refresh, XPD file is read again or it is re-uploaded from XGT Panel.
OK (m)	It saves the contents of a dialog box and closes it.
Undo(n)	It closes a dialog box without saving the contents.
Evoloror Button (a)	In case the node is automatically configured from XP-Builder of a computer,
Explorer Button (o)	you can select XP-Builder project file.
Change(p)	If the node is added and manually configured, you can change the XGT Panel
Orial 196(p)	type and PLC Driver.

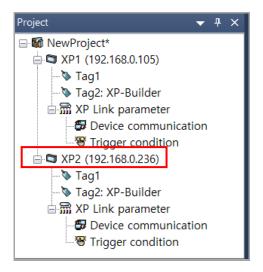
- (1) If you try to change the IP address of target XGT Panel, press the renewal button.
- (2) If the properties of node configuration mode are changed, it is renewed automatically.
- (3) Only when node is added directly and configured manually, you can change the XGT Panel type and PLC Driver.

4.4 Exporting Node

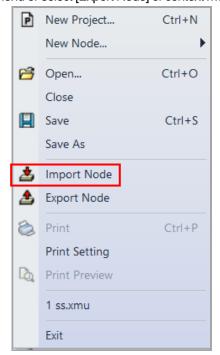
To reuse the node of a project, you can export it.

[Procedures]

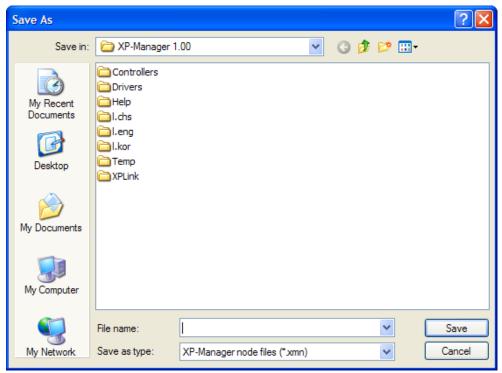
(1) Select the node to be exported from a project screen.



(2) Select [Project]-[Export Node] menu or select [Export Node] of context menu.



(3) Select the position for exporting a node and input the name of file.



(4) Press Save button to save the file.

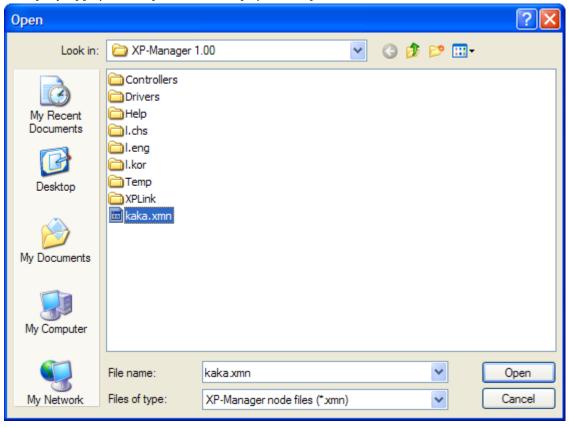
- (1) The file extension of exporting a node is XMN.
- (2) You cannot input special characters to a file name.
- (3) You cannot open the exported file directly at XP-Manager. Use Importing Node menu.

4.5 Importing Node

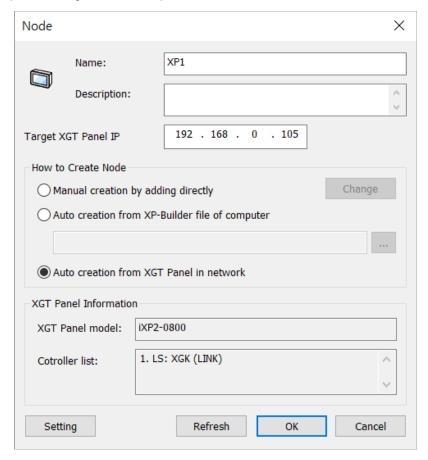
You can import the file (XMN file) made by Exporting Node as a project with Importing Node function.

[Procedures]

(1) Select [Project]-[Import Node] menu or select [Import Node] of context menu.



- (2) Select the file to be imported and press Open button.
- (3) If the Node Properties dialog box is shown, press OK button to add a node.



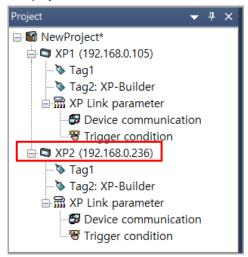
- (1) The name of imported node cannot be overlapped so change the name.
- (2) In the case of imported node, the IP address of target XGT Panel cannot be overlapped so change the IP address.

4.6 Copy/Paste Node

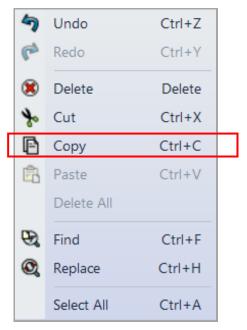
You can copy the node to a clipboard and paste it to other XP-Manager.

[Procedures]

(1) Select the node to be copied from a project screen.



(2) Select [Edition]-[Copy] menu or select [Copy] of context menu. No changes occur.



- (3) Select [Edition]-[Paste] menu or select [Paste] of context menu.
- (4) The Node Properties dialog box will be shown and press OK button to press OK button.

Notice

(1) The node copied to a clipboard can be pasted to other XP-Manager.

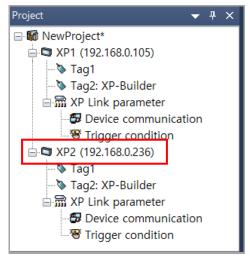
The copied contents remain at a clipboard before other copy process proceeds.

4.7 Cut/Paste Node

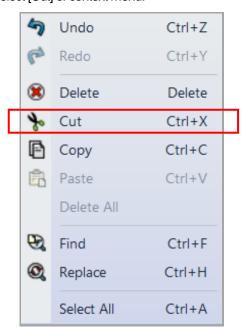
Copy the node to a clipboard and delete it from a project. You can paste the copied node to other XP-Manager.

[Procedures]

(1) Select the node to be cut from a project screen.



(2) Select [Edition]-[Cut] menu of select [Cut] of context menu.



- (3) Then, selected node is deleted and it is copied to a clipboard.
- (4) Select [Edition]-[Paste] menu or select [Paste] of context menu.
- (5) The Node Properties dialog box will be shown. Press OK button to add a node.

Chap. 4 Project

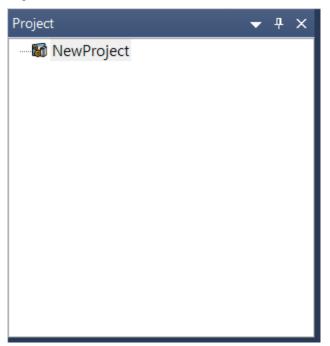
- (1) Undo Edition for a cut node is not available.
- (2) The node be copied to a clipboard can be pasted to other XP-Manager.
- (3) The copied contents remain at a clipboard before other copy process proceeds.

4.8 Configuring a Project

You can close the opened project and configure a blank project.

[Procedures]

- (1) Select [Project]-[New Project] menu.
- (2) If there is opened project, the project is closed.
- (3) Configure a blank project again.



Notice

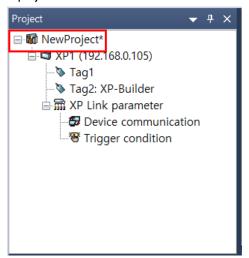
(1) If the opened project is edited, check if it is saved when the project is closed.

4.9 Changing the properties of project

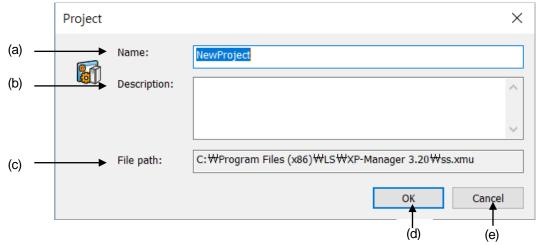
You can change the name and comment of a project.

[Procedures

(1) Select the name of project from a project screen.



- (2) Select or double-click [View]-[Properties] menu.
- (3) Then, the dialog box on project properties information will be shown.



(4) Change the properties and press OK button.

[Description on a dialog box]

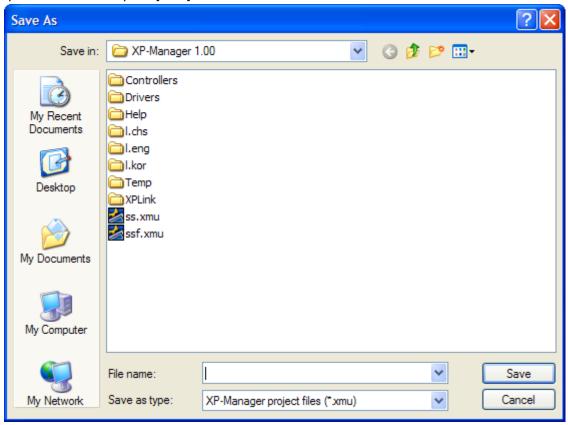
Item	Description
Name(a)	You can input the name of a project without limitation on length, special characters.
Description (b)	You can input comment without limitation on length.
File path (c)	When the project is saved, it shows the route of saved file.
OK(d)	It saves the contents of a dialog box and closes the box.
Cancel (e)	It closes a dialog box without saving the contents.

4.10 Saving Project

You can save the project as a file.

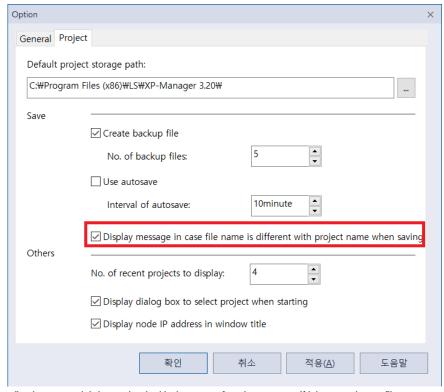
[Procedures]

- (1) Select [Project]-[Save] menu.
- (2) If you open the saved file, the project is continuously saved at the previous file.
- (3) If the file is saved for the first time, Save As dialog box will be shown.
- (4) Input the file name and press [Save] button.

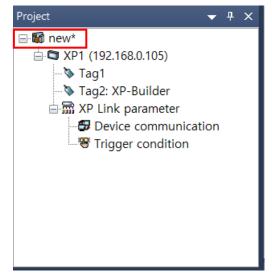


Notice (1) The file extension of the project used for XP-Manager is XMU file. (2) If the file opened at other project is saved, Sharing Violation error will occur. (3) If "Display the message in case that a file name is different form project name when saving" is set at [Option]-[Project], the below message will be shown for saving. XP-Manager File name is different with project name. Will you change project name into file name? Yes

If "Yes" is selected, it changes the project name into file name and saves it. If [No] is selected, it is saved as before.



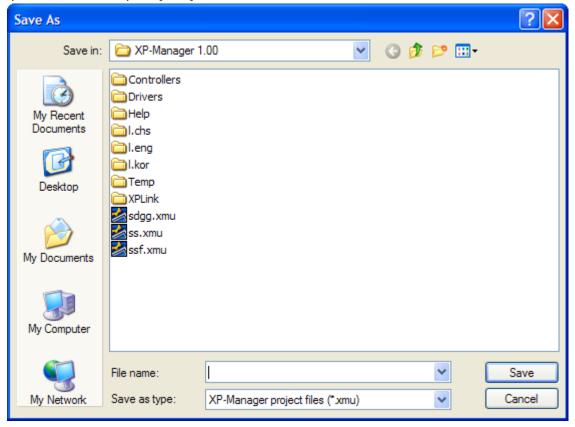
(4) If the project is edited, an asterisk is marked with the rear of project name. If it is saved as a file, an asterisk will disappear.



4.11 Project Save As

You can open the saved file and save it as another name. [Procedures]

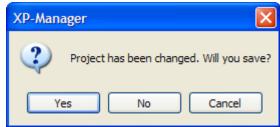
- (1) Select [Project]-[Save As] menu.
- (2) Input the file name and press [Save] button.



4.12 Close Project

It closes the opened project.

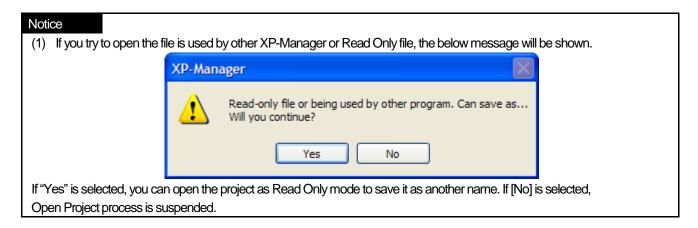
- (1) Select [Project]-[Exit] menu.
- (2) If project edition is completed, the message to confirm Save.



- (3) If [Yes] is selected, it saves the changed details and closes the project.
- (4) If [No] is selected, it closes the project without saving the changed details
- (5) If "Cancel" is selected, it discontinues closing the project.

4.13 Open Project

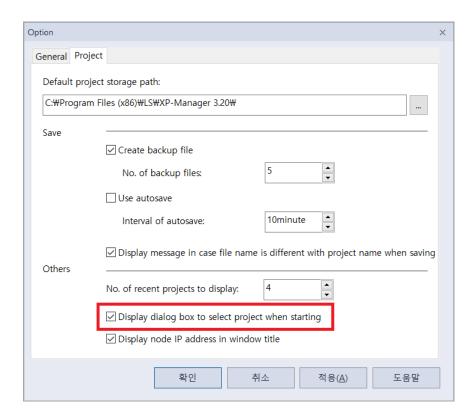
You can open the XP-Manager project file (XMU file) saved previously to open project.

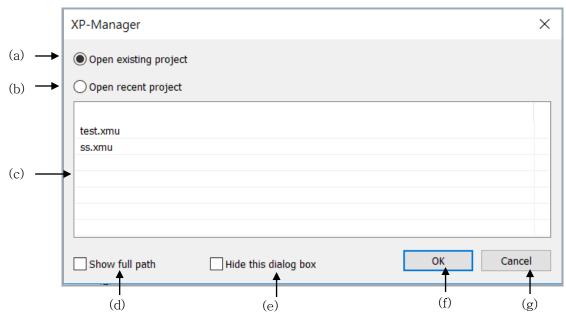


4.13.1 Open Project Dialog Box

When XP-Manager is executed, you can promptly open the previous project through the Open Project Dialog Box.

- (1) Execute XP-Manager.
- (2) When starting [Tool]-[Option]-[Project] menu, if the option displaying the Open Project Dialog Box is active, the dialog box will be shown.





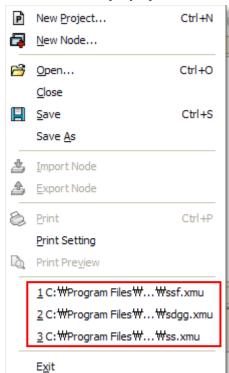
(3) Select the project from the dialog box to open project and press OK button.

[Description on a dialog box]

Item	Description
Open existing project(a)	It opens file explorer and searches for the project file to open it.
Open recent project (b)	It opens the selected project from the latest project list(c).
Recent Project List(c)	It shows the list of previous projects
Show full path (d)	It shows the whole route of file from the latest project list.
Hide this dialog box (e)	Project Open dialog box will not be shown when the next XP-Manager is executed.
OK(f)	It opens the project based on selected options.
Cancel(g)	It configures a blank project without opening project.

4.13.2 Opening from the latest project

You can promptly select and open the project from the latest list



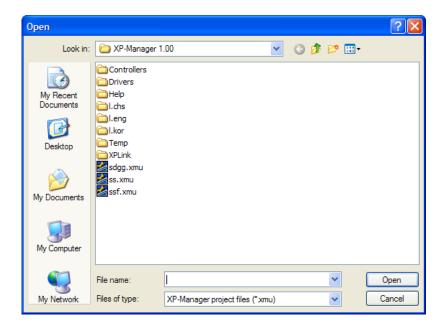
(1) Select the project to be opened from the latest list of [Project] menu.

(2) The opened project is closed and selected project is opened.

4.13.3 Opening file by explorer

[Procedures]

(1) Select [Project]-[Open] menu.

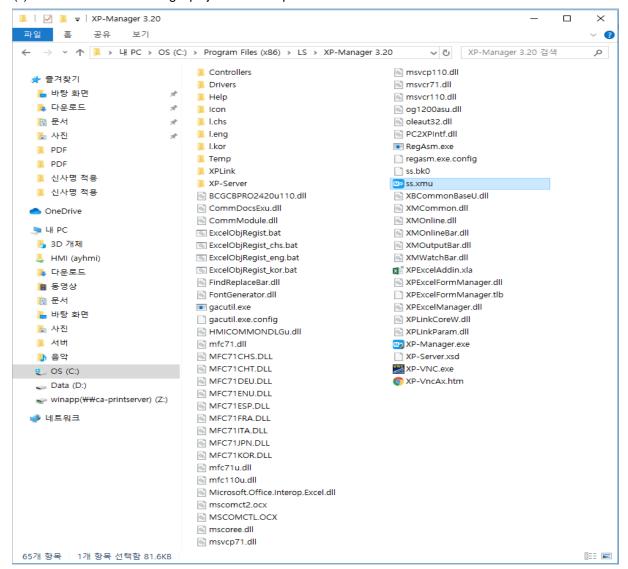


(2) After selecting the target file, press [Open] button to open the project.

4.13.4 Opening file by double-click at Windows Explorer

[Procedures]

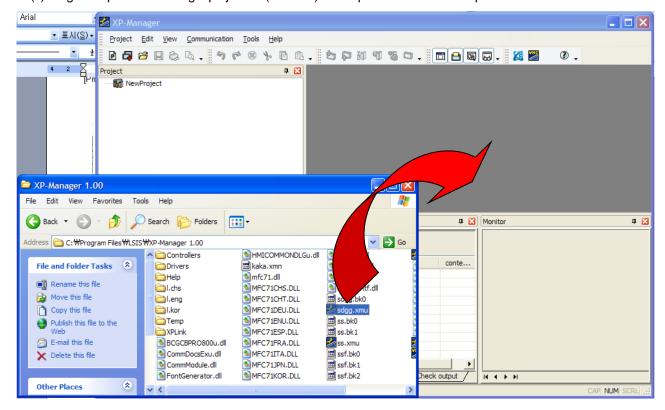
- (1) Execute Windows Explorer.
- (2) Double-click the XP-Manager project file to be opened.



(3) XP-Manager is executed newly and the project is opened.

4.13.5 Opening file by Drag & Drop at Windows Explorer

- (1) Execute Windows Explorer.
- (2) Execute XP-Manager.
- (3) Drag & Drop the XP-Manager project file (XMU file) to be opened at Windows Explorer.



Chap. 5 Tag

5.1 Definition of Tag

Tag is the function to pre-register the device address and type (Bit, Word) frequently used with the name in advance to manage the device easily and conveniently. Device address can be expressed as the name that a user can recognize.

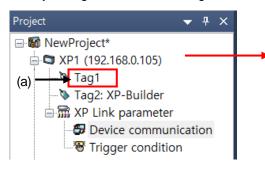
The tag of XP-Manager is the same as that used for XP-Builder but two tags are allowable depending on node configuration type. There are two tags configured by XP-Manger and XP-Builder.

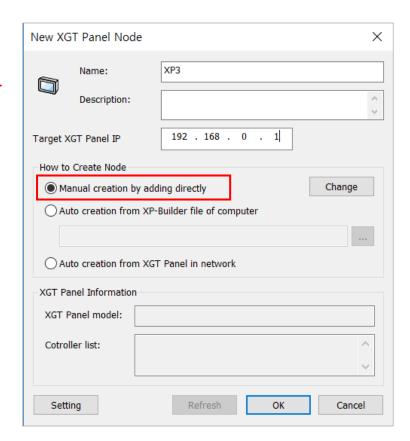
[Regulations for Tag Name]

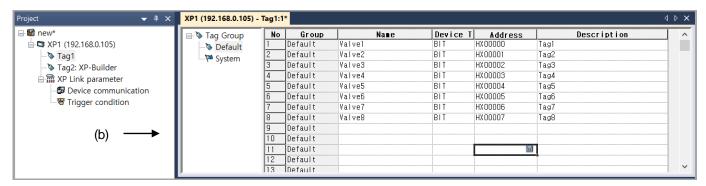
Number	A number can not be used for the first character of a name. (Ex. 3ABCD)
Special Characters	Special characters are not available except '_'
Space	The space added to the front and rear of a name is not recognized as a name.
Device Name	The address of connected PLC can not be used for the name.(Ex. D0012, %MW123)
Hexadecimal	Hexadecimal such as H234 can not be used for the name

The node added directly and configured manually 5.1.1

There is only the tag screen for XP-Manager.





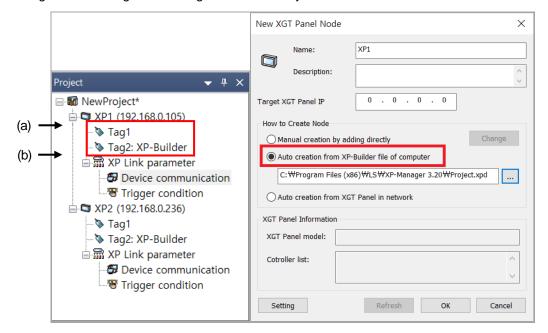


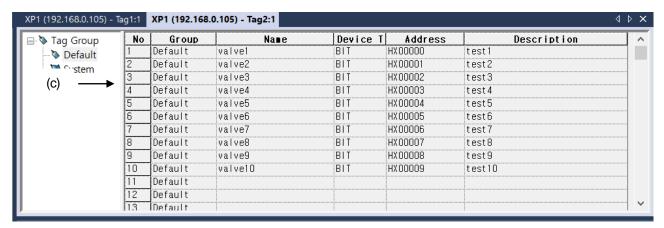
[Description]

Item	Description
Tag 1(a)	It is the tag configured from XP-Manager. The tag for XP-Manager can be edited.
Tag Screen (b)	It is the tag screen for XP-Manager that can be edited.

5.1.2 The Node configured automatically from XP-Builder file of a computer

There are the tags for XP-Manager and the tag screen created by XP-Builder.



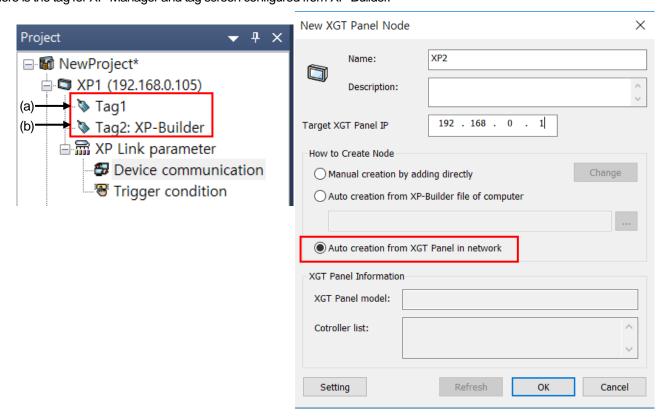


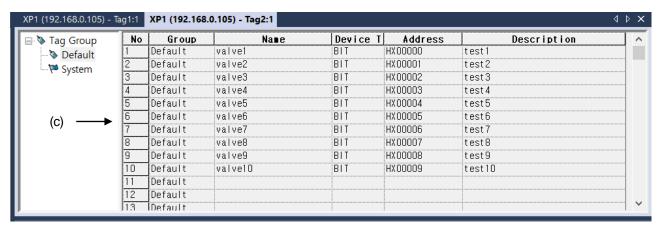
[Description]

Item	Description
Tag 1(a)	It is the tag configured from XP-Manager. The tag for XP-Manager can be edited.
Tag 2: XP-Builder(b)	It is the tag created by XP-Builder and read from the file. XP-Builder tag can not be edited.
Tag Screen (c)	It is the tag screen for XP-Builder that can not be edited. In case that edition is not
	available, the background color is gray.

5.1.3 Node configured automatically from the file of network

There is the tag for XP-Manager and tag screen configured from XP-Builder.





[Description]

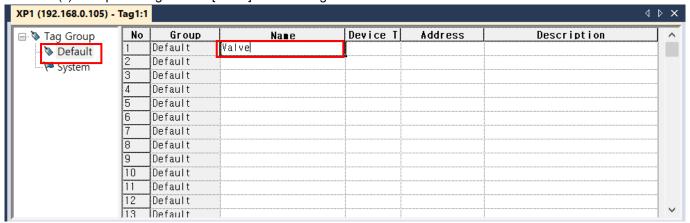
Item	Description
Tag 1(a)	It is the tag created from XP-Manager. The tag for XP-Manager can be edited.
Tag 2: XP-Builder(b)	It is the tag created from XP-Builder and read from the file. XP-Builder can not be edited.
Tag Screen (c)	It is the tag screen for XP-Builder that can not be edited. In case that edition is not
	available, the background color is gray.

5.2 Tag Declaration

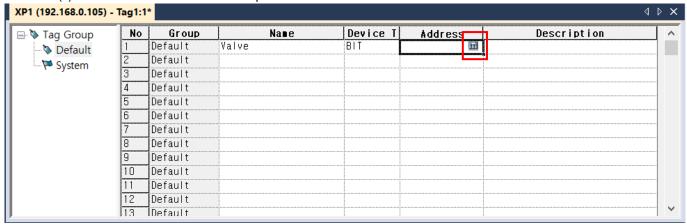
You need to declare tag at tag screen in advance before using tag.

[Procedures]

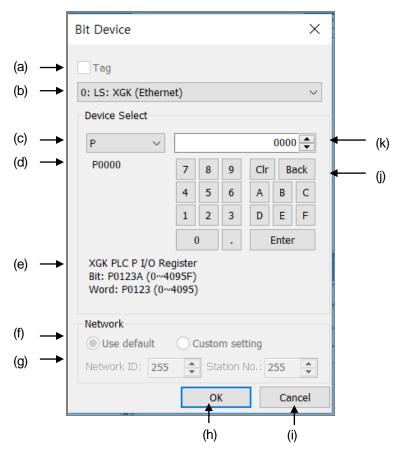
- Select [Tag 1] from a project screen and select or double-click [View]-[Properties] menu. (1)
- (2)Select [Default] tag group.
- (3)Input the tag name to [Name] column at tag screen.



(4) Select the device column and press device button.



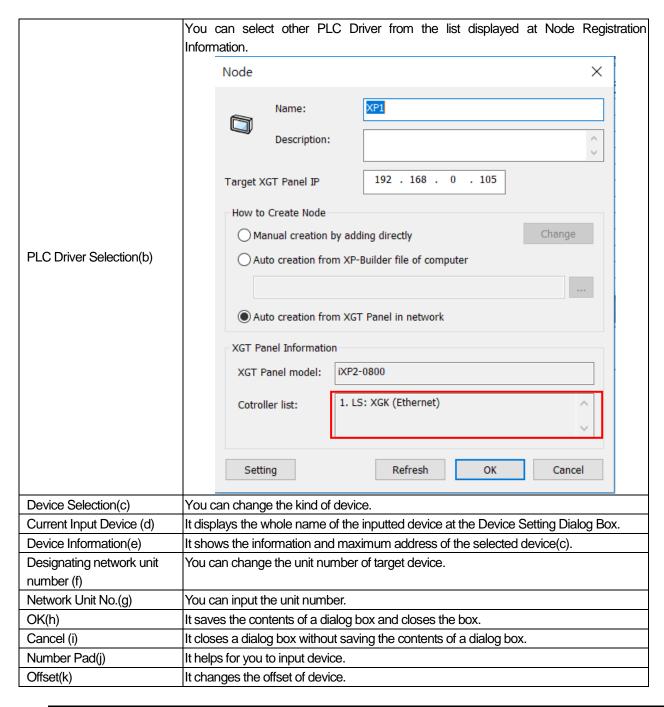
(5) Select the device.



(6) If necessary, input the comment.

[Description on a dialog box]

Item	Description
Tag(a)	The button converts the Device Selection Dialog Box into Tag Selection Dialog box.



Notice

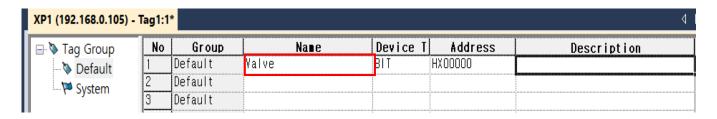
(1) You can declare the tags up to 1000EA per tag group.

5.3 Tag Deletion

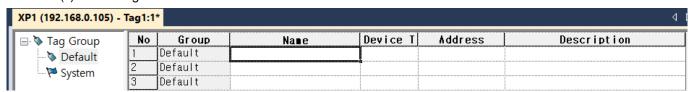
You can delete the declared tag. If tag is deleted, some error may occur at the place where the tag is applied before.

[Procedures]

- (1) After selecting [Tag 1] from a project screen, select or double-click [View]-[Properties] menu.
- (2) Select [Default] tag group.
- (3) Select the tag to be deleted from tag screen.



- (4) Select [Edit]-[Delete] menu or press Delete key.
- (5) The tag will be deleted.

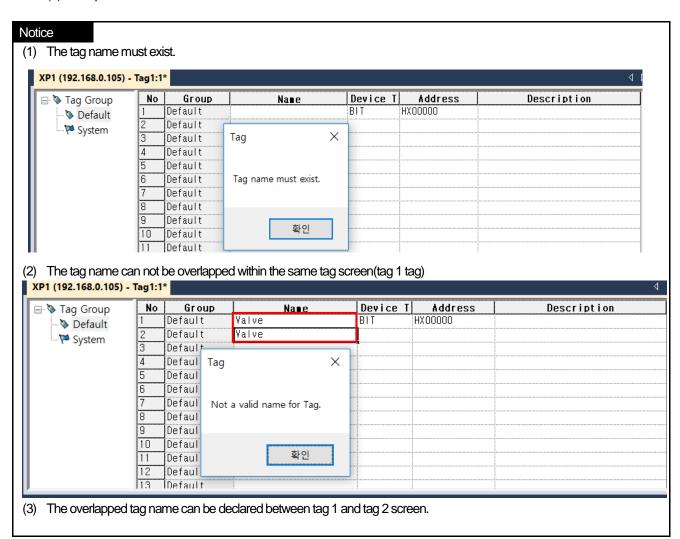


- (1) If you select tag name cell and delete the tag, the tag will be deleted.
- (2) If you select tag type and delete the tag, the type will be deleted and it will become bit type. Tag must have the type all the time so it is changed into bit type or no changes.
- (3) If you select tag device and delete the tag, only device will be deleted.
- (4) If you select tag comment and delete the tag, only comment will be deleted.

5.4 Tag Revision

You can change the name, device, comment, type of the declared tag.

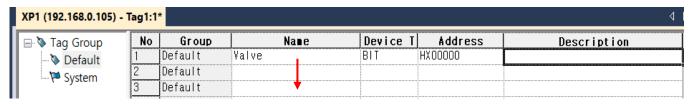
- (1) After selecting [Tag 1] from a project screen, select or double-click [View]-[Registration Information] menu.
- (2)Select [Default] tag group.
- (3)Select the tag to be changed from tag screen.
- (4) Input the revised details.



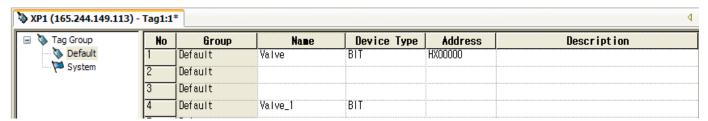
5.5 Tag Copy/Paste

[Procedures]

- (1) After selecting [Tag 1] from a project screen, select or double-click [View]-[Registration Information] menu.
- (2) Select the [Default] tag group.
- (3) Select the tag to be copied at tag screen.
- (4) After selecting [Edit]-[Copy] menu, copy the tag to a clipboard.
- (5) Move to the position to for Paste.



(6) Select [Edition]-[Paste] menu and paste it.



- (1) When pasting tag name, the name of copy is displayed as "Original name_Number" to avoid overlapped name.
- (2) The Copy function of tag screen acts as copying sting. Namely, only selected cell is copied.

5.6 Tag Cut/Paste

[Procedures]

- After selecting [Tag 1] from a project screen, select or double-click [View]-[Properties] menu. (1)
- (2) Select the [Default] tag group.
- (3) Select the tag to be cut at tag screen.
- (4) After selecting [Edit]-[Cut] menu, copy the tag to a clipboard and delete it.
- (5) Move to the position to for Paste.
- (6) Select [Edit]-[Paste] menu and paste it.

Notice

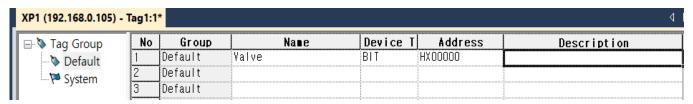
(1) Tag Cut/Paste operation is the same as Tag Deletion-Tag Copy/Paste.

5.7 Tag Auto-Filling

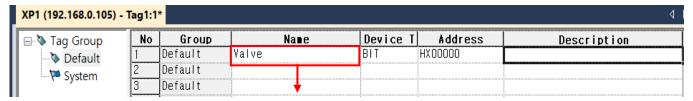
Tag screen has the Auto-Filling function just as Excel. Through this function, you can promptly declare tag that has continuous device address with a similar name.

[Procedures]

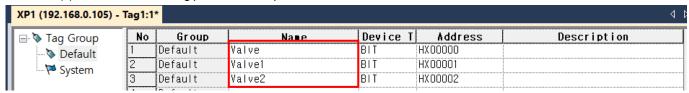
- (1) After selecting [Tag 1] from a project screen, select or double-click [View]-[Registration Information] menu.
- (2) Select the [Basic] tag group.
- (3) Select the right below corner of the cell for Auto-Filling at tag screen and make the shape of mouse cursor as below.



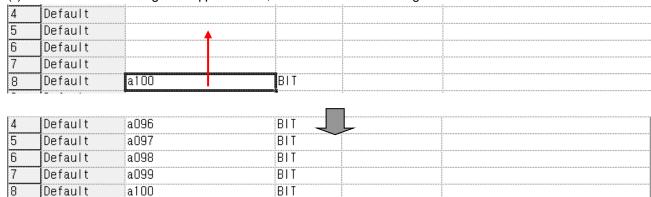
(4) After clicking the right lower part of selected cell, drag it down.



- (5) After moving to the position where Auto-Filling mode is terminated, put away the mouse.
- (6) Then, Auto-Filling process is completed.



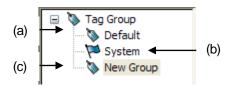
- (1) For Name Auto-Filling column, it increases as "Selected Tag Name + Number to avoid overlapped tag name.
- (2) Type Auto-Filling column does not increase.
- (3) In the terms of Device Column Auto-Filling, the address increases automatically.
- (4) In the terms of Comment Column Auto-Filling, it increases as "Selected Comment +Number". However, when you execute Auto-Filling with pressing Ctrl key, it does not increase and filled with the same comment.
- (5) You can select several horizontal rows for Auto-Filling.
- (6) In the case of Auto-Filling to the upper direction, it decreases as "Selected tag number".



5.8 Tag Group

For tag group, you can declare tag by collecting the related tag group. It is also required for device communication by tag group.

[The kinds of Tag Group]



Tag Group	Description				
Default Tag Group(a)	The tag group is added basically when node is added to XP-Manager. The group can not				
	be deleted but tag declaration is allowable.				
	The tag group is added basically when node is added to XP-Manager. The group can not				
	be deleted and it is the syste	m tag d	leclared basically	at XGT Panel. In this case, Tag	
	Declaration/Deletion is not available.				
	3				
System Tag Group(b)	> XP1 (165.244.149.113) - Tag1:1*				
System ray Group(b)	☐ 🦠 Tag Group	No	6roup	Name	
	🦫 Default	1	System	_NVRAM_Low_Battery	
	System	2	System	_NVRAM_Invalid_Data	
	Valve Valve_1	3	System	_No_Logging_Backup_Storage	
	Valve_1	ļ	<u> </u>		
User's declared tag group	The tag group is added by a user and a user can delete it or change its name. Tag				
(c)	Declaration/Deletion process is also available.				

- (1) Tag group declaration is not limited in the number.
- (2) For basic tag group, system tag group, you can not delete them or not change their name.

5.9 Tag Group Declaration

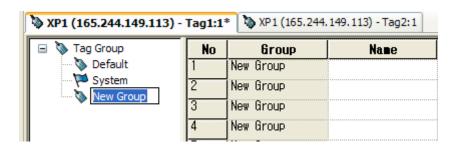
You can add tag group.

[Procedures]

- (1) After selecting [Tag 1] from a project screen, select or double-click [View]-[Properties] menu.
- (2) Select the light tag group screen.
- (3)Click the right mouse button at tag screen and select [New Group] of context menu.



- (4) Click the right mouse button at tag group screen and select [New Group] of context menu.
- It is added under the name of "New Group" and you can change the name. (5)



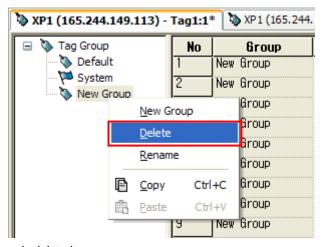
- (1) The overlapped name of tag group can not be declared.
- (2) You can apply special characters to tag group name.
- (3) You can change the name by selecting the selected tag group at tag group screen or selecting [Change Name] of context menu.

5.10 Deleting Tag Group

You can delete the added tag group.

[Procedures]

- (1) After selecting [Tag 1] from a project screen, select or double-click [View]-[Registration Information] menu.
- (2) Select the light tag group screen.
- (3) Select the tag group to be deleted and apply [Delete Group] of context menu.



(4) Then, the tag group is deleted.

Notice

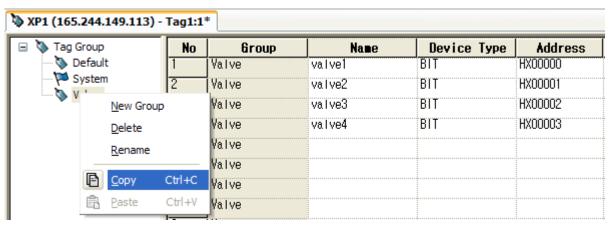
(1) When tag group is deleted, all tags of tag group are deleted.

5.11 Tag Group Copy/Paste

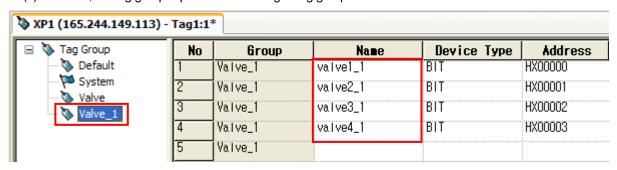
You can re-use the added tag through Copy/Paste.

[Procedures]

- (1) After selecting [Tag 1] from a project screen, select or double-click [View]-[Registration Information] menu.
- (2) Select the light tag group screen.
- (3)Select the tag group to be copied and apply [Copy] of context menu.



- (4) Select tag group screen and select [Paste] of context menu.
- Then, the tag group is pasted with the tag of tag group. (5)



- (1) When tag group is copied, all tags of groups will be also copied.
- (2) When pasting tag group, it is displayed as "Name Number" to avoid overlapped name.
- (3) When pasting tag, it is displayed as "Name_Number".

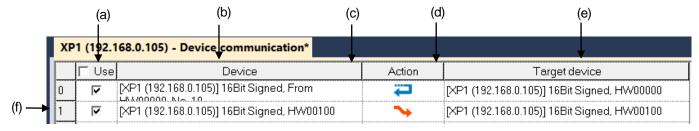
Chap. 6 Device Communication

6.1 Device Communication Screen

[Procedures]

After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties]. (1)

[Screen]



[Description on a screen]

Item	Description
Licing row(a)	If you activate using row, device communication will work. If you undo activation for
Using row(a)	non-used device communication and download it, device communication will not work.
Device Communication	It indicates the node name and device communication screen.
Screen Name (b)	
Device Row(c)	It indicates the name, type, quantity of operated device.
Action)	It indicates the operation mode.
Target Device Row(e)	It displays the target device list.
No.(f)	It indicates the No. of device communication from 1 to 64.

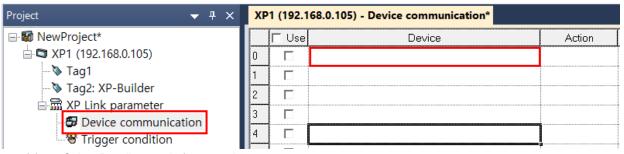
6.2 Editing Device Communication

6.2.1 Reading Device

You can perform Reading Device.

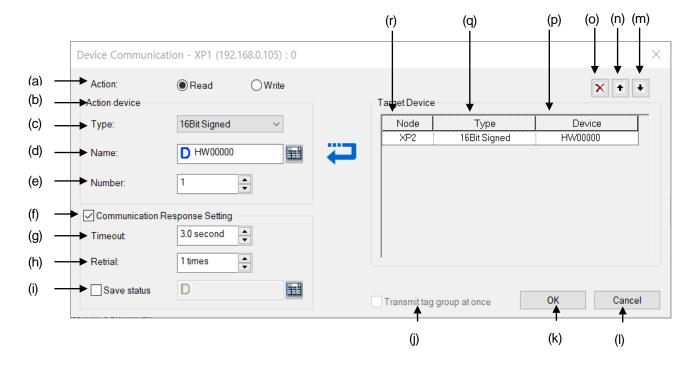
[Procedures]

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties]
- (2) After selecting the row to be edited, select or double-click [View]-[Properties]



- (3) Select Reading mode for operation.
- (4) Select operating device type and input the device.
- (5) Select the target node with the same type as operating device and input the device.
- (6) Press OK button and close the dialog box.

[Dialog Box]



[Description on a dialog box]

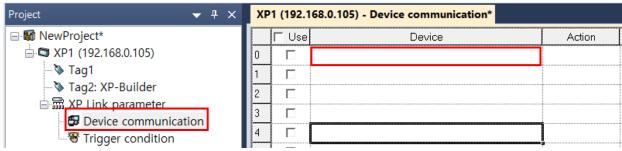
Item	Description
Action (a)	It selects operation of device communication. Reading from other node,
Action (a)	Writing to other node is available.
Action Doving(b)	Under Reading mode, the device saves the data read from other node.
Action Device(b)	Under Writing mode, the data of this device can be written to other node.
	It is operating device type. In case that operating device type is bit, the target device
Type(c)	should be all bit. In case that operating device is 16bit, the target device should be
	16bit and if the operating device is 32bit, the target device should be 32 bit.
Name((d)	You can input device name by using device selection button.
The number of devices(e)	You can input the number of continuous devices
Communication response	It checks whether device communication works successfully or not. Under Reading
setting (f)	mode, Checking Communication Response option is active all the time.
Time a set (s)	You can input timeout value for the case that device communication fails.
Timeout (g)	The maximum limit is 10 seconds.
Retrial(h)	You can input the frequency of retrying communication when timeout occurs.
Save Status (i)	The device is to dace the operation status of device communication.
Transmit tag group at once	When tag group is applied to operating device, the option is to transmit the
(j)	device of tag group at once.
OK(k)	It saves the details of a dialog box and closes it.
Cancel(I)	It closes the dialog box without saving dialog box details.
Down(m)	It moves the selected target device to the lower direction.
Up(n)	It moves the selected target device to the upper direction.
Delete (o)	It deletes the selected device.
Target Device(p)	It can input the target device.
Type(q)	It selects the target device type.
Node(r)	It selects the target node.

Notice

- (1) For Reading mode, you can designate only one target device.
- (2) For Writing mode, you can designate the target device up to 1024EA.
- (3) The type of operating device should be the same as the type of target device.
- (4) In Reading mode, operating device is Read Only device, error may occur.

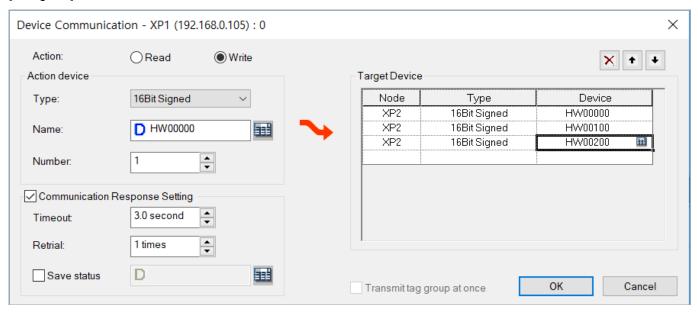
6.2.2 Writing Device

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties].
- (2) After selecting the row to be edited, select or double-click [View]-[Properties].



- (3) Select Writing mode for operation.
- (4) Select action device type and input the device.
- (5) Select the target node with the same type as operating device and input the device.
- (6) Press OK button and close the dialog box.

[Dialog Box]



Notice

(1) If too many device communications or target devices are designated, it may deteriorate the performance of XGT Panel.

6.2.3 Using Tag Group

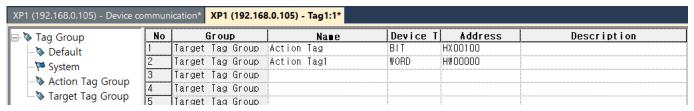
You can designate tag group with action device of device communication and it is useful to send communication operations as structured data.

Chap. 6 Device Communication

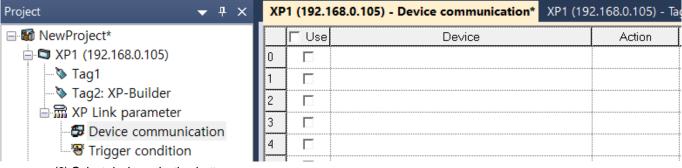
- (1) Open tag screen.
- (2) Add the tag group.



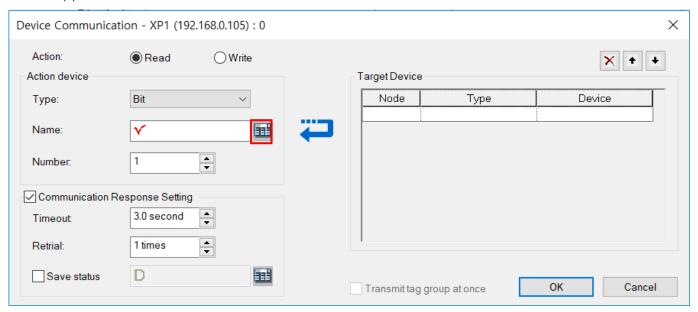
(3)Add the tag.



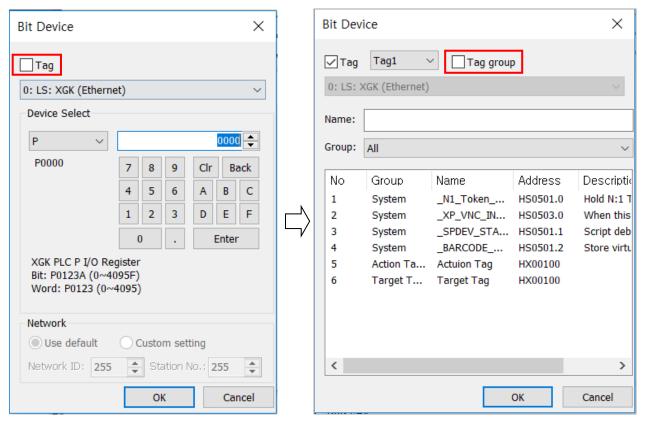
- (4) After selecting [Device Communication] at a project screen, select or double-click [View]-[Properties].
- (5) After selecting the row to be edited, select or double-click [View]-[Properties].



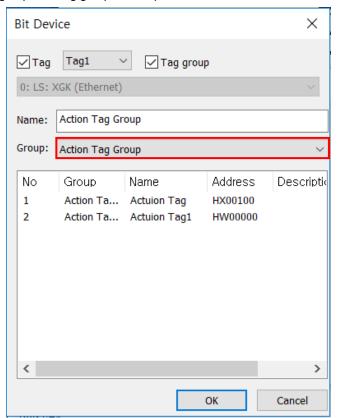
(6) Select device selection button.

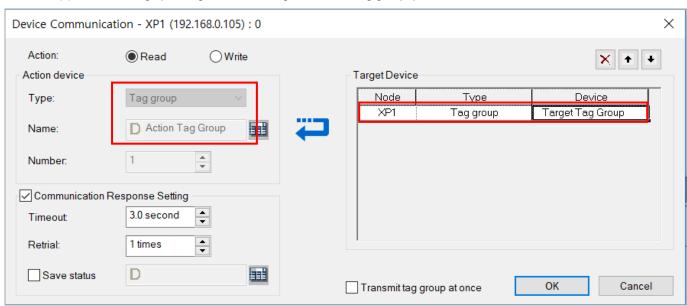






(8) After selecting tag group from tag group list and press OK button.





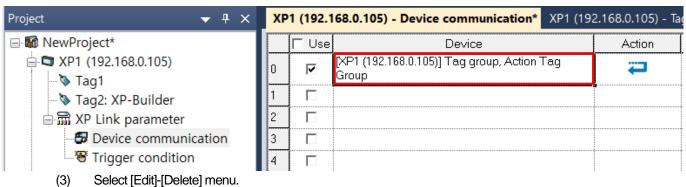
(9) After selecting operating device and target device as tag group, press OK button.

- (1) If action device is tag group, the target device that has the same structure should be added.
- (2) If action device is designated as tag group, you cannot set the device type and quantity.
- (3) If the tag group of action device has different structure from the target device's tag group, error may occur.

6.3 Deleting Device Communication

[Procedures]

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties].
- (2) Select the edge of row to be deleted.



(b) Coloot [Early [Boloto] Moria

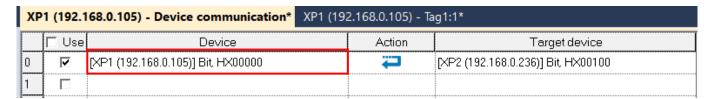
Notice

(1) If you select several rows and delete it, all selected items will be deleted.

6.4 Device Communication Copy/Paste

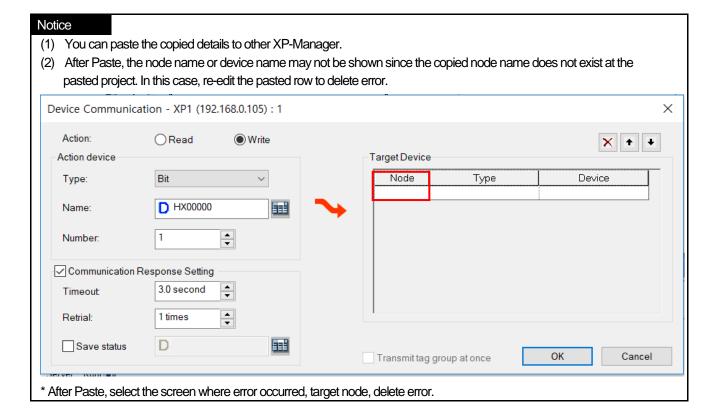
[Procedures]

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Registration Information].
- Select the edge of row to be copied and select [Edition]-[Copy] menu. (2)



Move to the cell to be pasted and select [Edition]-[Paste] menu to paste it. (3)

	□ Use	Device	Action	Target device
0	⋝	[XP1 (192.168.0.105)] Bit, HX00000	7	[XP2 (192.168.0.236)] Bit, HX00100
1	✓	[XP1 (192.168.0.105)] Bit, HX00000	7	[XP2 (192.168.0.236)] Bit, HX00100



6.5 Device Communication Cut/Paste

[Procedures]

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties].
- (2) Select the edge of row to be cut and select [Edit]-[Cut] menu.



- (3) The selected row is deleted.
- (4) Move to the cell to be pasted and select [Edition]-[Paste] to paste it.

XP	XP1 (192.168.0.105) - Device communication* XP1 (192.168.0.105) - Tag1:1*				
	☐ Use Device		Action	Target device	
0					
-	☑ [XP1 (192.168.0.105)] Bit, HX00000	N/D1 /100 100 0 10EN E9 LIV00000		[XP2 (192.168.0.236)] Bit, HX00100	
		[XP1 (192.168.0.105)] Bit HX00000	7	XP2 (192.168.0.236)] Bit, HX00000	

Notice

(1) Cut is the same as the Delete function after Copy.

6.6 Device Communication Drag & Drop

[Procedures]

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties].
- (2) Select the edge of row to be dragged and click the left mouse button.



- (3) Put the mouse to the position to be dragged and out it away.
- (4) You can see that the selected row is moved.

XP	XP1 (192.168.0.105) - Device communication* XP1 (192.168.0.105) - Tag1:1*					
	☐ Use Device		Action	Target device		
0						
1	☑ [XP1 (1	ND1 (100 100 0 10EN B): LIV00000		[XP2 (192.168.0.236)] Bit, HX00100		
I		[XP1 (192.168.0.105)] Bit, HX00000	7	XP2 (192.168.0.236)] Bit, HX00000		

- (1) The Drag & Drop function at the identical screen is the same as Copy/Paste.
- (2) The Drag & Drop function to other screen is the same as Copy/Paste.
- (3) If you drop with pressing Ctrl button, Copy/Paste function at the same screen is available.

6.7 Delete Device Communication

[Procedures]

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties].
- (2) Select the row to be deleted.



(3) Select [Edition]-[Delete] menu and delete it.

J	XP1 (192.168.0.105) - Device communication* XP1 (192.168.0.105) - Tag1:1*					
	□ Use	Device	Action	Target device		

- (4) Select [Edition]-[Undo] menu.
- (5) It returns to the previous status before edition.

)	XP1 (192.168.0.105) - Device communication*			(P1 (192	2.168.0.105) - Ta	ag1:1*
	☐ Use Device		Action Target device			
			5 P/D1 /100 100 0 10FN D2 LIV0000		[XP2 (192.168.0.236)] Bit, HX00100	
U				•	[XP2 (192.168.0.236)] Bit, HX00000	

- (1) You need the previous edition history to Undo Edition.
- (2) Redo Edition is not limited in the quantity.
- (3) You can Undo Edition for all functions.

6.8 Redo Device Communication

[Procedures]

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties].
- (2) Select the row to be deleted.



(3) Select [Edit]-[Delete] menu and delete it.

XI	XP1 (192.168.0.105) - Device communication* XP1 (192.168.0.105) - Tag1:1*				
	□ Use	Device	Action	Target device	
0					
1					

- (4) Select [Edit]-[Undo] menu.
- (5) Then, it returns to the previous status before edition.

J	XP1 (192.168.0.105) - Device communication* XP1 (192.168.0.105) - Tag1:1*				
		□ Use Device		Action	Target device
		Е	▼ [XP1 (192.168.0.105)] Bit, HX00000 →		[XP2 (192.168.0.236)] Bit, HX00100
	U	~		•	[XP2 (192.168.0.236)] Bit, HX00000

- (6) Select [Edit]-[Redo] menu.
- (7) Then, selected row is deleted again.

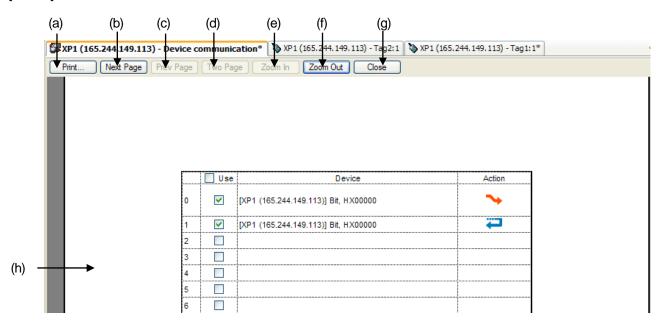
- (1) Redo Edition is not limited in the quantity.
- (2) You need the previous edition history to Redo Edition.

6.9 Device Communication Print Preview

[Procedures]

- (1) After selecting [Device Communication] at a project screen, select or double-click [View]-[Registration Information].
- (2) Select Device Communication screen.
- Select [Project]-[Print Preview] menu. (3)

[Screen]



[Description on a screen]

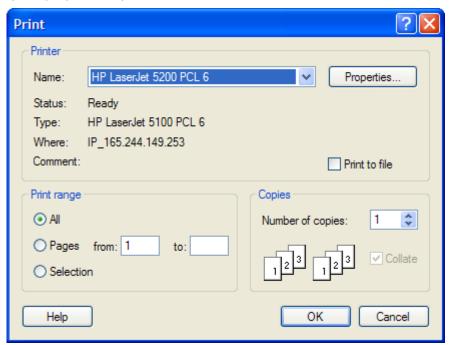
Item	Description
Print(a)	It prints the current screen.
Next Page (b)	It previews the next screen.
Previous Page(c)	It previews the previous screen.
Two Pages(d)	It previews two pages per screen.
Zoom In(e)	It expands the current screen to full size.
Zoom Out(f)	It reduces the current Preview Screen.
Close(g)	It closes the Preview Screen and moves to the Edition Screen.
Screen(h)	It previews the current screen.

- (1) It is printed as Preview Screen.
- (2) Through Preview Screen, you can adjust the screen not to be cut with the width of row.
- (3) Edition is not available at Preview Screen.

6.10 Device Communication Print Preview

[Procedures]

- After selecting [Device Communication] at a project screen, select or double-click [View]-[Properties]. (1)
- (2) Select Device Communication screen.
- (3)Select [Project]-[Print] menu.
- (4) The Print Dialog Box will be shown as below.
- (5) Then, press [OK] button to print it.



Notice

(1) The above dialog box may be different depending on Windows version.

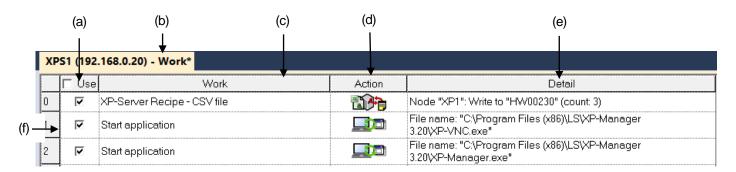
Chapter 7 Work

7.1 Work Window

[Sequence]

(1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.

[Window]



[Window Description]

Item	Description
Use(a)	Check a row to activate the work. The work is not activated, if the check is cancelled and
USE(a)	downloaded.
Work Window Name(b)	Its node name is displayed and it is confirmed that it is the work window.
Work(c)	The work profile is displayed.
Action(d)	Its action mode and image are displayed.
Detail(e)	The work's detailed description is specified.
Number(f)	The work number is displayed. Number 0 through 63.

- (1) The work window can be edited only on XP-server node.
- (2) In case of "Various Work using Excel template file", various detailed actions are displayed.

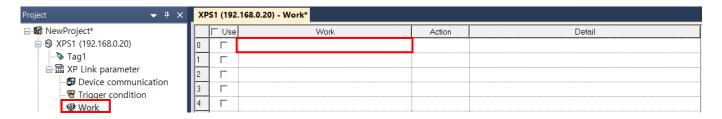
7.2 Edit

7.2.1 Various Work using Excel template file

Various actions can be performed with Excel files.

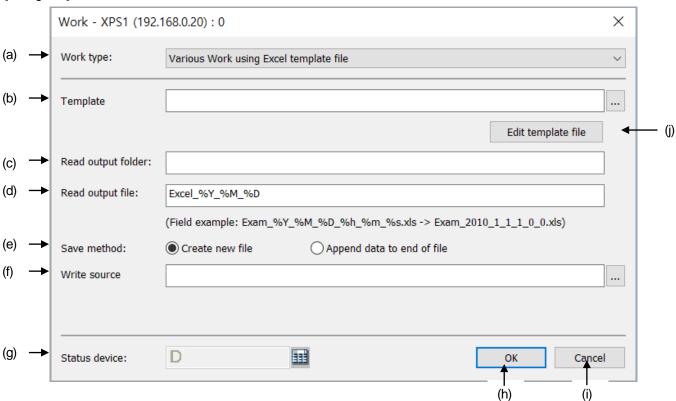
[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to edit and then select Menu [View]-[Properties] or double click.



- (3) Select a work type from [Various Work using Excel template file].
- (4) Select [template file].
- (5) Select [Edit template file] and edit the work on Excel.
- (6) Enter [Read Output Folder] and [Read Output File].
- (7) Press the "OK" button to close the dialog box.

[Dialog Box]



Item	Description
Work type(a)	Select a work type.
Template file(b)	Enter the template file name. Enter the file path.
Read output folder(c)	Designate the Excel file location to which XP-Server in action will be saved.
Dood output file(d)	Designate the Excel file name in which XP-Server in action will be saved. If a field is used,
Read output file(d)	the file name will be dynamically changed.
Sava mathad(a)	Designate whether to add data only to the end of the file or to create a new file when XP-
Save method(e)	Server in action saves a file.
\\/rito course file(f)	Enter the file name in which the original data are saved when XP-Server in action writes
Write source file(f)	data. Enter the file path.
Status device (g)	Action state of this work is saved.
OK(h)	Close the dialog box with saving the content in it.
Cancel(i)	Close the dialog box without saving the content in it.
Edit template file(j)	Execute Microsoft Excel to open the template file.

Note

- (1) For further information on the editing on Excel, see "Chapter 15, Excel Work".
- (2) If a field is used for the file name, the file name will be dynamically changed. It is available to use both field and string together. Fields are as below:

Field Name	Action	Example (when it is 2010-12-14-05-30-30)
%Y	Save the file name in the current year when saving	Year%Y.csv → Year2010.csv
%M	Save the file name in the current month when saving.	%M_Month.xls → 12_Month.xls
%D	Save the file name in the current day when saving	Day_%D_out.txt → Day_14_out.txt
%h	Save the file name in the current time when saving.	Time_%h.csv → Time_5.csv
%m	Save the file name in the current minute when	_%m_minute.xls → _30_minute.xls
	saving.	
%s Save the file name in the current second when		Second-%s_log.txt → Second-30_log.txt
	saving	

(3) Depending on Save Method Mode, one file can save data. But, if a field is used for the file name, data can be saved in other files.

Save Method	Action
Create a new file	A new file with the designated file name is created whenever data are read
	and saved in a file. If there is an existing file with the same file name, data
	will be updated.
Append data to end of file	When data is read and saved in a file, a new file will be created if there is no
	file and only data contents will be added to the end of the work if there is
	already a file.

- (4) For the Status Devices, enter writable word devices. When the work is performed, status information such as normality or error is displayed.
- (5) Special characters cannot be used for file names. (\/: *?<>|)
- (6) Special characters cannot be used for file names. (/:*?<>|)

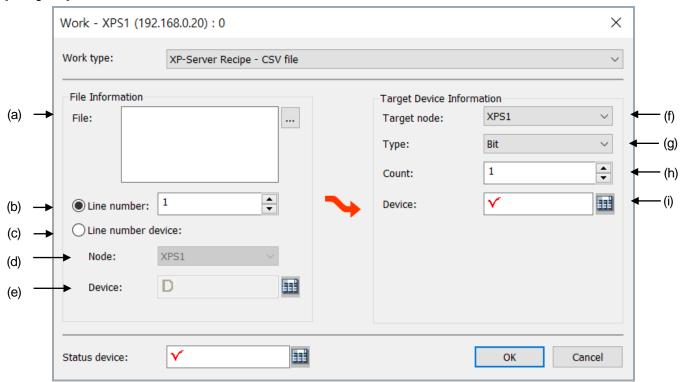
7.2.2 XP-Server Recipe - CSV File

Data in CSV file can be written with the subject node.

[Sequence]

- Select [Work] from the project window and then select Menu [View]-[Properties] or double click. (1)
- (2) Select a row to edit and then select Menu [View]-[Properties] or double click.
- Select [XP-Server Recipe CSV File] for Work Type. (3)
- (4) Enter [File].
- (5) Enter information on the subject node and device.
- (6) Press the OK button to close the dialog box.

[Dialog Box]



[Dialog Box Description]

Item	Description			
File(a)	Enter the name of the CSV file that will be the source of the writing data. Enter the path.			
Line number(b) Write the data in the subject node on a particular line in the CSV File.				
Line number device(c) Available to change the CSV file's line number dynamically.				
Node(d) Obtain the CSV file's line number with this node's device value.				
Device(e) Obtain the CSV file's line number with the readable word device value.				
Subject Node(f) Designate a target node.				
Type(g) Designate a type of device.				
Count(h) Enter the number of consecutive devices.				
Device(i) Enter a device subject to writing.				

Note

- (1) The Line Number Device is a readable word device.
- (2) For detailed action description on "XP-Server's Recipe CSV File", refer to Chapter 2 of "Chapter 16 Work Operation".
- (3) Special characters cannot be used for file names. (/: *? <> |)

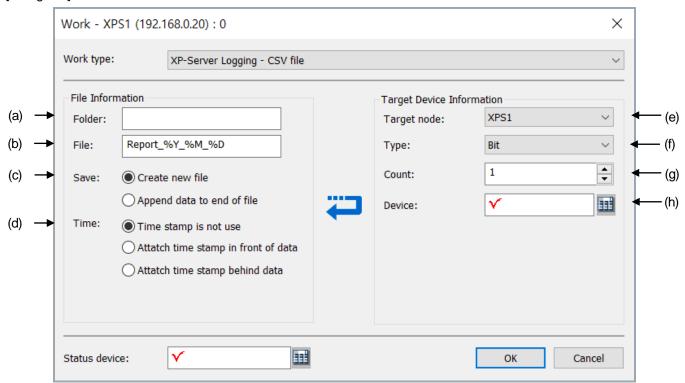
7.2.3 XP-Server Logging-CSV File

The data read from the node can be saved in a CSV file.

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- Select a row to edit and then select Menu [View]-[Properties] or double click. (2)
- Select [XP-Server Logging-CSV File] for Work Type. (3)
- (4) Enter [Folder] and [File].
- (5) Enter information on the subject node and device.
- Press the OK button to close the dialog box. (6)

[Dialog Box]



Item	Description	
Folder(a)	Enter the name of the folder in which a CSV file will be saved. Enter the relative path.	
File(b)	Enter a CSV file name.	
Save(c)	Select an option to save data.	
Time(d)	Select an option to display time when saving data.	
Target Node(e)	Designate a subject node.	
Type(f)	Designate a type of device.	
Count(g)	Enter the number of consecutive devices.	
Device(h)	Enter a device subject to reading.	

Note

- (1) If option "Create new file" is designated without using a field for the file name, only one file will be saved.
- (2) For detailed action description on "XP-Server Logging CSV File", refer to Chapter 3 of "Chapter 16 Work Operation".
- (3) Special characters cannot be used for file names. (\/: *?<>|)
- (4) Special characters cannot be used for file names. (/:*?<>|)

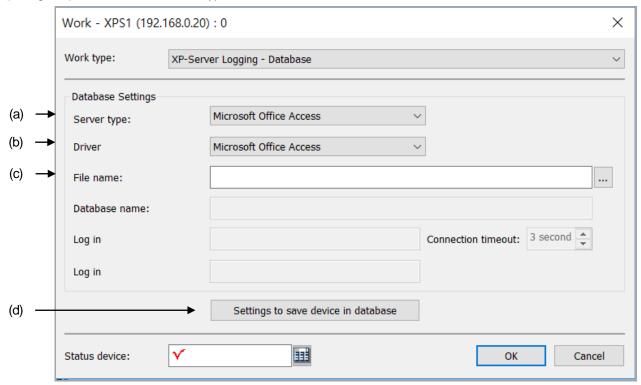
7.2.4 XP-Server Logging- Database

The data read from the node can be saved in database.

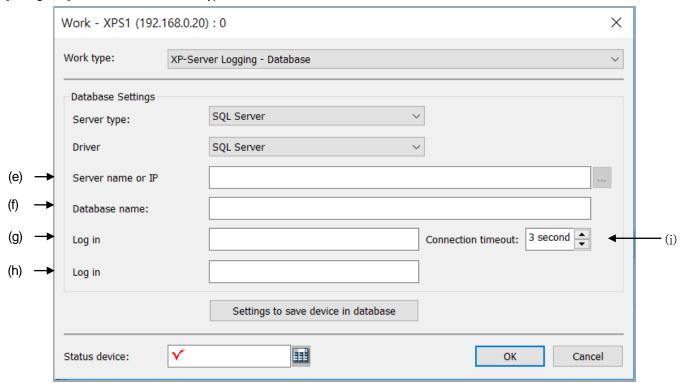
[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to edit and then select Menu [View]-[Properties] or double click.
- (3) Select [XP-Server Logging–Database] for Work Type.
- (4) Enter [Server Type] and [File Name].
- (5) Press [Settings to save device in database] to enter Database Table, Field and Device to be saved
- (6) Press the OK button to close the dialog box.

[Dialog Box] – In case that the server type is Microsoft Office Access,



[Dialog Box] - In case that the server type is SQL Server

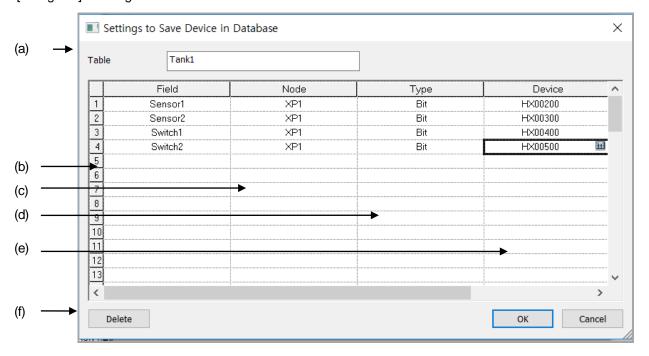


Item	Description	
Server Type(a)	Select a Database Server Type.	
Driver(b)	Select a driver to access to the server.	
File Name(c)	Enter a Microsoft Office Access file. Enter the entire file paths.	
Settings to save device in	Enter a device to be saved in the database. Enter Database Table, Field, Subject Node	
database(d)	and Device to be saved.	
Server Name or IP	Enter the computer name or IP address in which SQL Server is located.	
Address(e)		
Database Name(f)	Enter the database name.	
Log-in Name(g)	Enter the log-in name to access to SQL Server.	
Log-in Password(h) Enter log-in password.		
Connection Time Out(i)	Enter the Connection Time-Out time when connecting with SQL Server.	

Note

- (1) If option "Create new file" is designated without using a field for the file name, only one file will be saved.
- (2) For detailed action description on "XP-Server Logging- Database" refer to Chapter 4 of "Chapter 16 Work Operation."
- (3) Special characters cannot be used for file names. $(\/: *? <> \/)$

[Dialog Box] - Settings to save device in database



Item	Description	
Table Name(a)	Enter a table name in the database.	
Field(b)	Enter a field in the table.	
Node(c)	Enter the subject node name.	
Type(d)	Enter a type of the device.	
Device(e)	Enter a device subject to reading.	
Delete(f)	Delete the selected item.	

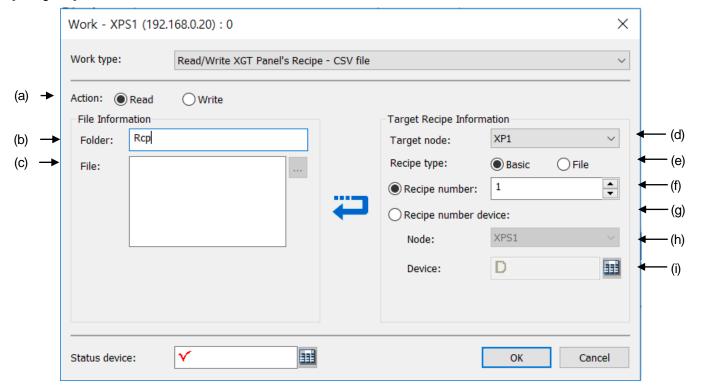
7.2.5 Read/Write XGT Panel's Recipe - CSV File

XGT Panel's Recipe can be read and written in CSV File.

[Sequence]

- Select [Work] from the project window and then select Menu [View]-[Properties] or double click. (1)
- Select a row to edit and then select Menu [View]-[Properties] or double click. (2)
- (3)Select [Read/Write XGT Panel's Recipe - CSV file] for Work Type.
- (4) Enter [File].
- (5) Enter information on the subject node and recipe.
- (6) Press the OK button to close the dialog box.

[Dialog Box]



Item	Description	
Action(a)	Designate read or write action.	
Folder(b)	Enter the folder name. Enter the relative path.	
File(c)	Enter the file name.	
Target Node(d)	Enter the subject XGT panel node name.	
Recipe Type(e)	Select a type of the recipe.	
Recipe No.(f)	Enter recipe number.	
Recipe No.Device(g)	Available to change the recipe number dynamically.	
Node(h)	Obtain the recipe number with this node's device value.	
Device(i)	Obtain the recipe number with the readable word device value.	

Note

- (1) Recipe No. Device is a readable word device.
- (2) For detailed action description on "ReadWrite XGT Panel's Recipe CSV File", refer to Chapter 5 of "Chapter 16 Work Operation".
- (3) To write right data, use CSV File saved through Read action.
- (4) For subject node, only XGT Panel Node is available. XP-Server Node is not available.
- (5) When performing "Write" action, if file is on PC, it downloads the relevant file to XP-Server.

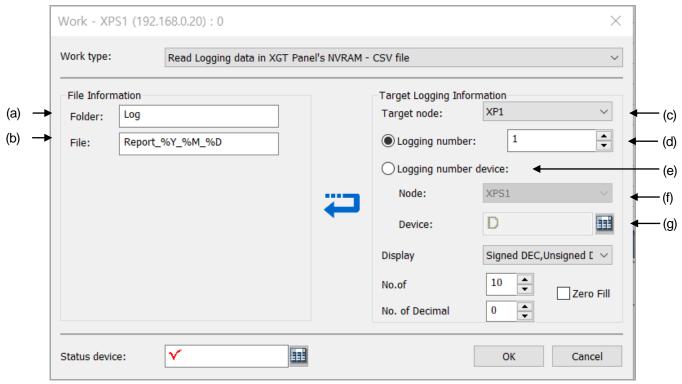
7.2.6 Read logging data on XGT Panel 's NVRAM – CSV File

The logging saved in XGT Panel's NVRAM can be read in CSV File.

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to edit and then select Menu [View]-[Properties] or double click.
- Select [Read NVRAM logging on XGT Panel- CSV File] for Work Type. (3)
- Enter [Folder] and [File]. (4)
- (5) Enter information on the subject node and logging.
- Press the OK button to close the dialog box. (6)

[Dialog Box]



[Dialog Box Description]

Item	Description	
Folder(a)	Enter the folder name. Enter the relative path.	
File(b)	Enter the file name. Enter the relative path.	
Target Node(c)	Enter the subject XGT panel node name.	
Logging Number(d)	Enter the logging number.	
Logging Number Device(e)	Available to change the logging number dynamically.	
Node(f)	Obtain the logging number with this node's device value.	
Device(g)	e(g) Obtain the logging number with the readable word device value.	

- (1) Logging Number Device is a readable word device.
- (2) For detailed action description on "Read logging data on XGT Panel's NVRAM CSV File," refer to Chapter 6 of "Chapter 16 Work Operation".
- (3) For subject node, only XGT Panel Node is available. XP-Server Node is not available.
- (4) Special characters cannot be used for file names. (\/: *?<>|)
- (5) Special characters cannot be used for file names. (/: *?<>|)

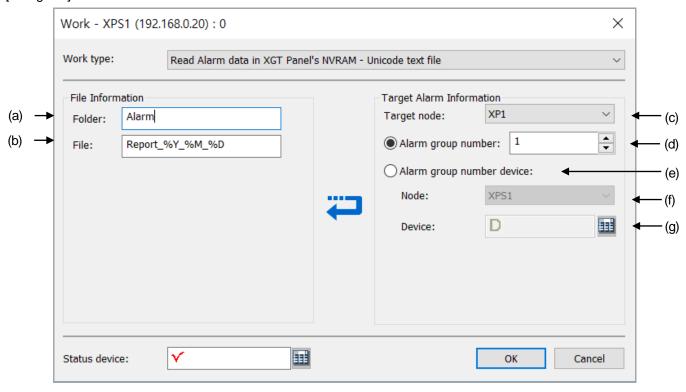
7.2.7 Read Alarm data in XGT Panel's NVRAM - Unicode Text File

Logging saved in XGT Panel's NVRAM can be read in CSV File.

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to edit and then select Menu [View]-[Properties] or double click.
- (3) Select [Read Alarm data in XGT Panel's NVRAM Unicode Text File] for Work Type.
- (4) Enter [Folder] and [File].
- (5) Enter information on the subject node and alarm.
- (6) Press the OK button to close the dialog box.

[Dialog Box]



[Dialog Box Description]

Item	Description		
Folder(a)	Enter the folder name. Enter the relative path.		
File(b)	Enter the file name. Enter the relative path.		
Target Node(c)	Enter the subject XGT panel node name.		
Alarm Group Number(d)	l) Enter the alarm group number.		
Alarm Group Number	Available to change the alarm group number dynamically.		
Device(e)			
Node(f) Obtain the alarm group number with this node's device value.			
Device(g)	Obtain the alarm group number with the readable word device value.		

Note

- (1) The Alarm Group Number Device is a readable word device.
- (2) For detailed action description on "Read Alarm data in XGT Panel's NVRAM— Unicode Text File", refer to Chapter 7 of "Chapter 16 Work Operation".
- (3) For subject node, only XGT Panel Node is available. XP-Server Node is not available.
- (4) When directly entering alarm group number, enter XP-Builder's alarm group ID. This function is compatible with XP-Builder version 1.24 or higher.



- (5) Special characters cannot be used for file names. $(\cdot / : *? <> |)$
- (6) Special characters cannot be used for file names. (/: *? <> |)

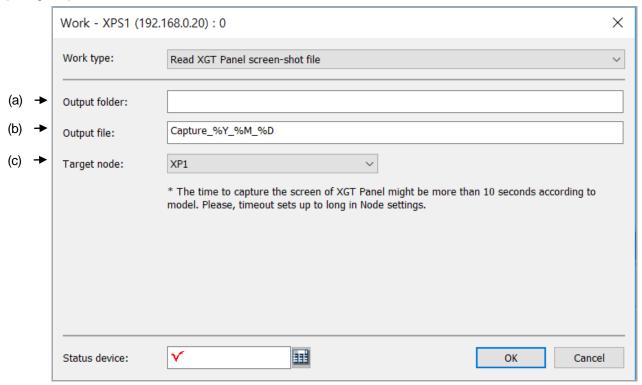
7.2.8 Read XGT Panel screen-shot file

It is possible to capture XGT Panel's current screen and read it in a bitmap file.

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]- [Properties] or double click.
- (2) Select a row to edit and then select Menu [View]- [Properties] or double click.
- (3) Select [Read XGT Panel screen-shot file] for Work Type.
- (4) Enter [Output Folder] and [Output File].
- (5) Enter the subject node.
- (6) Press the OK button to close the dialog box.

[Dialog Box]



[Dialog Box Description]

ltem Description			
Output Folder(a)	Enter the folder name. Enter the relative path.		
Output File(b)	Enter the file name. Enter the relative path.		
Target Node(c) Enter the subject XGT panel node name.			

- (1) For detailed action description on "Read XGT Panel screen-shot file," refer to Chapter 8 of "Chapter 16 Work Operation."
- (2) For subject node, only XGT Panel Node is available. XP-Server Node is not available.
- (3) Special characters cannot be used for file names. (\/:*?<>|)
- (4) Special characters cannot be used for file names. (/:*?<>|)
- (5) Function 'Capture Screen' may take different time depending on machine types. For XP30, it takes less than 3 seconds, for XP50 or XP70, less than 5 seconds and for XP90, less than 10 second. Therefore, it is essential to appropriately define time-out time of XP-Server in which 'Read XGT Pane screen-shot file' is defined in order to have normal operation.

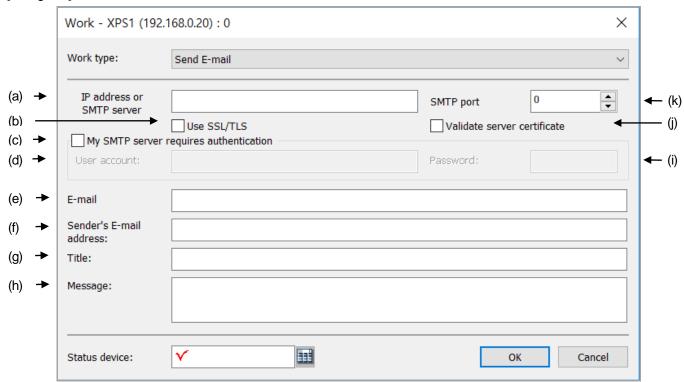
7.2.9 Send E-mail on PC

E-mail can be sent.

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to edit and then select Menu [View]-[Properties] or double click.
- (3) Select [Send E-mail on PC] for Work Type.
- (4) Enter E-mail information.
- (5) Press the OK button to close the dialog box.

[Dialog Box]



Item	Description		
IP Address or SMTP Server Name	Enter the IP address of the SMTP Server or the server name.		
(a)			
Use SSL/TLS (b)	Data is encrypted when they are sent to the mail server.		
My SMTP server requires	Unless non-account mail service of the Intranet's SMTP Server (Anonymous		
authentication (c)	SMTP is used, the user's information needs to be authenticated.		
User account(d)	If [My SMTP server requires authentication] is checked, Enter the user's account.		
E mail address (a)	Set a sender's mail address. Use ';'to set multiple senders. The same mail will be		
E-mail address (e)	set to all of the registered persons.		
Sender's E-mail address(f)	Set a sender. Set a mail account.		
Title(g)	Enter the mail title.		
Message(h)	Enter the mail content.		
Password (i)	If [My SMTP server requires authentication] is checked, Enter the user's password.		
Validate server certificate (j)	Check the certificate of SMTP Server.		
CMTD Down No. (Is)	Enter the number of SMTP Server's port. If non-account mail service of the		
SMTP Port No.(k)	Intranet's SMTP Server (Anonymous SMTP) is used, the port number will be 25.		

Note

- (1) For detailed action description on XP-Server's "Send E-mail on PC," refer to Chapter 9 of "Chapter 16 Work Operation."
- (2) If User Authentication is not used (Anonymous SMTP), SMTP Server shall be on the same Intranet network with XGT Panel. In this case, the port number shall be designated as 25, the basic port of Anonymous SMTP service.
- (3) If URL is used instead of directly entering the server's IP, DNS Server's IP shall be set from the starting Menu.
- (4) The sending mail is coded in unicode.

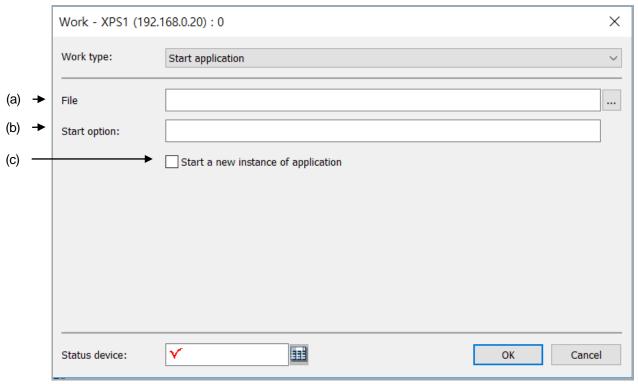
7.2.10 Start application

Memo board, Paint, Excel and other application programs can be executed on PC.

[Sequence]

- Select [Work] from the project window and then select Menu [View]-[Properties] or double click. (1)
- Select a row to edit and then select Menu [View]-[Properties] or double click. (2)
- (3) Select [Start application] for Work Type.
- (4) Enter [File Name].
- Enter a subject node. (5)
- Press the OK button to close the dialog box. (6)

[Dialog Box]



[Dialog Box Description]

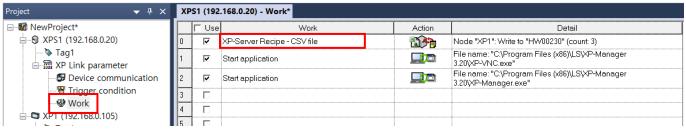
Item	Description		
File Name(a)	Enter the program name. Enter the entire file paths.		
Start option (b)	Enter an option when the program starts executing.		
Start a new instance of	new instance of Execute a new program while the same program is executed. More than two		
application (c)	programs can be executed at the same time.		

- (1) For detailed action description on XP-Server's "Start application," refer to Chapter 10 of "Chapter 16" Work Operation."
- (2) Special characters cannot be used for file names. (\/: *?<>|)

7.3 Delete

[Sequence]

- Double click [Work] on the project window (1)
- (2)Select a row to delete



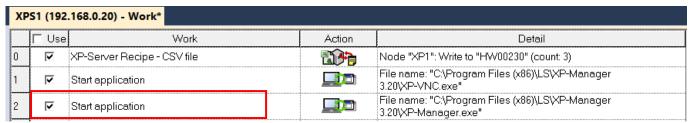
(3)Select Menu [Edit]-[Delete].

- (1) If several rows are selected, all of them will be deleted at the same time.
- (2) Sub-items of Item "Various Works using Excel template file on PC" cannot be deleted. To delete them, press [Edit Excel Template File] button to execute Excel.

7.4 Copy/Paste

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to copy and select Menu [Edit]-[Copy].



(3) After moving to the cell to paste, select Menu [Edit]-[Paste] to paste.

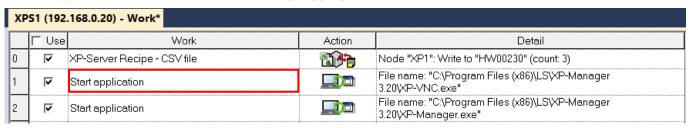
	□ Use	Work	Action	Detail
0	V	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)
1	☑	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager
2	₽	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager
3				
4	₽	XP-Server Recipe - CSV file	TO:	Node "XP1": Write to "HW00230" (count: 3)
5				

- (1) Any copied content can be pasted in other XP-Manager.
- (2) Node Name or Device Name may become invisible after being pasted. Such a case may happen because there is no project to which the copied node name is pasted. To resolve this problem, edit the row subject to being pasted.

7.5 Cut/Paste

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to cut and select Menu [Edit]-[Cut].



- (3) The selected row will be deleted.
- (4) After moving to the cell to paste, select Menu [Edit]-[Paste] to paste.

	□ Use	Work	Action	Detail
0	☑	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)
1				
2	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"

Note

(1) 'Cut' is equivalent to 'Delete after copying.'

7.6 Drag & Drop

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select an edge of the row to drag and press the left button of the mouse.

XP	XPS1 (192.168.0.20) - Work*						
	□ Use	Work	Action	Detail			
0	⊽	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)			
1	v	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-VNC.exe"			
2	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"			

- (3) After moving to the location to drop, release the mouse.
- (4) The previously selected row will be moved.

	□ Use	Work	Action	Detail
0	V	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)
1				
2	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"
3				
4	☑	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager
5				

- (1) Function Drag & Drop in the same window equals to Function Cut/Paste.
- (2) Function Drag & Drop in the different windows equals to Function Copy/Paste.
- (3) When dropping, press the Ctrl button and drop to have the same function with Copy/Paste even in the same window.

7.7 Cancel edition

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to delete.

XP	XPS1 (192.168.0.20) - Work*						
	□ Use	Work	Action	Detail			
0	☑	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)			
1	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-VNC.exe"			
2	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"			

Select Menu [Edit]-[delete] to delete. (3)

	□ Use	Work	Action	Detail
0	V	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)
1				
2	~	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"

- (4) Select Menu [Edit]-[Undo].
- (5) The work is returned to the one before being edited.

XP	XPS1 (192.168.0.20) - Work*						
	□ Use	Work	Action	Detail			
0	I	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)			
1	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-VNC.exe"			
2	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"			

- (1) Cancelling edition is available only when edition is done previously.
- (2) There is no limit to the number of cancelling edition.
- (3) All editions will be cancelled.

7.8 Redo

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a row to delete.

XF	XPS1 (192.168.0.20) - Work*					
	□ Use	Work	Action	Detail		
0	V	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)		
1	2	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-VNC.exe"		
2	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"		

(3) Select Menu [Edit]-[delete] to delete.

	□ Use	Work	Action	Detail
0	☑	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)
1				
2	₽	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"

- (4) Select Menu [Edit]-[Undo].
- (5) The work is returned to the one before being edited.

XF	XPS1 (192.168.0.20) - Work*					
	□ Use	Work	Action	Detail		
0	V	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)		
1	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-VNC.exe"		
2		Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"		

- (6) Select Menu [Edit]-[Redo].
- (7) The selected row is redeleted.

	□ Use	Work	Action	Detail
0	☑	XP-Server Recipe - CSV file		Node "XP1": Write to "HW00230" (count: 3)
1				
2	V	Start application		File name: "C:\Program Files (x86)\LS\XP-Manager 3.20\XP-Manager.exe"

Note

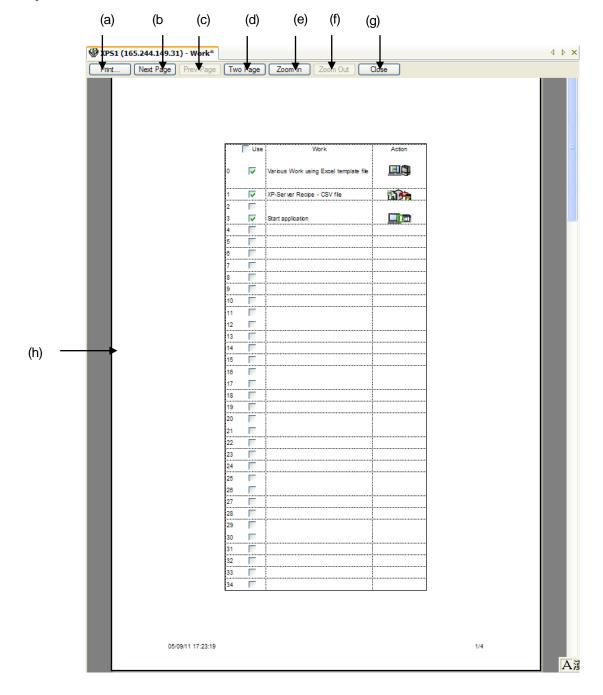
- (1) There is no limit to the number of redoing edition.
- (2) Redoing edition is available only when the previous edition is cancelled.

7.9 Print Preview

[Sequence]

- Select [Work] from the project window and then select Menu [View]-[Properties] or double click. (1)
- (2) Select a work window.
- (3) Select Menu [Project]-[Print Preview].

[Screen]



[Screen Description]

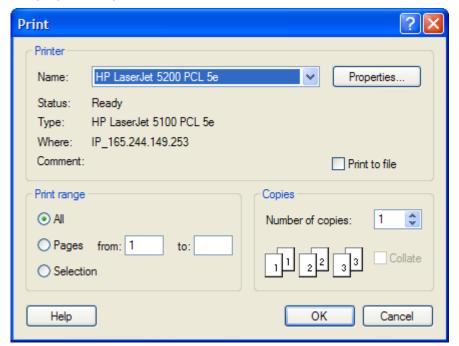
Item	Description
Print(a)	The current window will be printed.
Next(b)	The next window will be previewed.
Previous(c)	The previous window will be previewed.
Two Pages(d)	Two pages will be previewed on a screen.
Zoom In(e)	The current preview widow will be zoomed in.
Zoom Out(f)	The current preview widow will be zoomed out.
Close(g)	The current preview widow will be closed to move to the edit window.
Screen(h)	The current screen will be previewed.

- (1) It is printed as seen on the preview screen.
- (2) Ensure any part of the screen is not cut through Print Preview and adjust the width of the row.
- (3) Editing is not allowed in the preview screen mode.

7.10 Print

[Sequence]

- (1) Select [Work] from the project window and then select Menu [View]-[Properties] or double click.
- (2) Select a work window.
- (3)Select Menu [Project]-[Print].
- (4) The print dialog box appears as below
- (5) Press the [OK] button to print.



Note

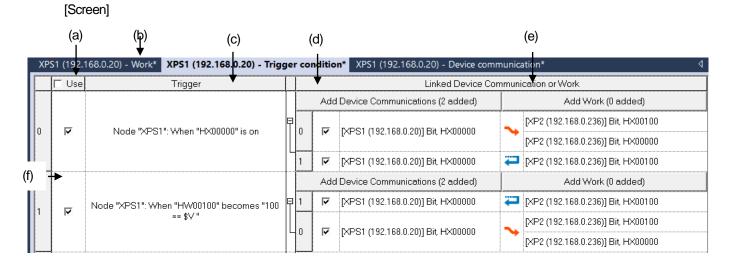
The above print dialog box may vary depending on the computer's window version. (1)

Chap. 8 Trigger Condition

8.1 Description on the screen of Trigger Condition

[Procedures]

(1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Registration Information] menu.



[Description on a screen]

Item	Description
Using row (a)	Trigger condition does not work until using row is checked.
Trigger condition screen name (b)	It indicates the node name and trigger condition screen.
Trigger Condition row(c)	It describes trigger condition.
Full Screen Button (d)	It is displayed when there is the device communication connected to trigger condition. Every time that you press the button, connected device communication is expanded or reduced.
Connected device communication row (e)	It indicates the connected device communication list.
No.(f)	It indicates the number of trigger condition from 1 to 64.

8.2 Editing Trigger Condition

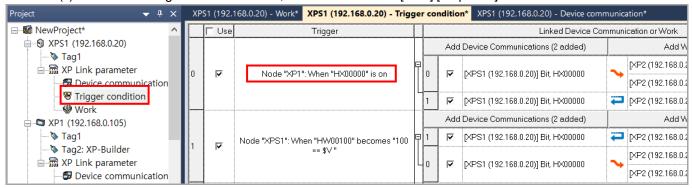
Trigger is to provide the condition for device communication under XP Link communication of XGT Panel. Every time trigger is configured, device communication connected to trigger is available. There are bit, word, time, system triggers.

8.2.1 Editing Bit Trigger

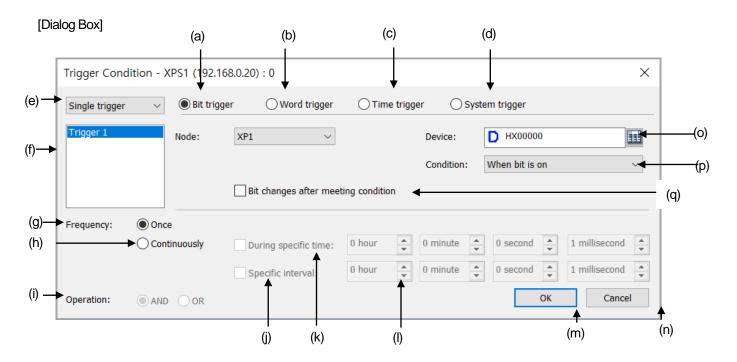
You can configure trigger with bit device condition.

[Procedures]

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) After selecting the row to be edited, select or double-click [View]-[Properties].



- (3) Select the bit trigger.
- (4) Input the bit device.
- (5) Input bit condition.
- (6) Press OK button to close a dialog box.



Chap.8 Trigger Condition

[Description on a dialog box]

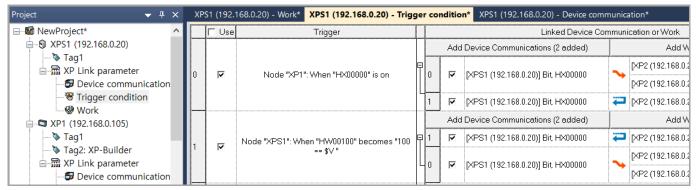
Item	Description			
Bit Trigger(a)	It configures the trigger on condition of bit device condition.			
Word Trigger(b)	It configures the trigger on condition of word device condition			
Time Trigger(c)	It configures the trigger at a specific time.			
System Trigger (d)	It configures the trigger depending on operation status of XGT Panel.			
The number of Triggers(e)	You can set the number of triggers up to 4 EA.			
Current Trigger(f)	You can select the trigger for current edition among 4 triggers.			
Frequency, Once(g)	It configures trigger once when trigger condition is fulfilled.			
Frequency, Continuously (h)	It configures trigger even after trigger condition is fulfilled.			
Operation Condition(i)	For complex trigger that has two or more, it can configure trigger with operation condition between triggers.			
Specific Interval(j)	It configures trigger at certain interval after trigger is configured. However, trigger condition is not fulfilled, trigger is not configured.			
During specific time (k)	It configures continuously trigger at a certain time.			
Time Setting (I)	You can input time value.			
OK(m)	It saves the details of a dialog box and closes it.			
Cancel(n)	It closes the dialog box without saving the details of a dialog box.			
Device (o)	You can input bit device.			
	You can select bit condition.			
	Bit On			
	Bit Off HX0001:			
Bit Condition (p)	Bit Reversal HX0001:			
	During Bit On HX0001:			
	During Bit Off HX0001:			
Bit changes after meeting	When bit device condition is [Bit On] or [Bit Off], it reverses the bit device value after			
condition (q)	conditions are fulfilled.			

- (1) Read only device can not be designated as bit condition device.
- (2) After the condition is fulfilled, bit reversal (q) is active only when bit condition is [Bit On] or [Bit Off].
- (3) Time Setting (I) is active only when Frequency Continue (h) is applied.

8.2.2 **Editing Word Trigger**

You can configure trigger with bit device condition.

- (1) [After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) After selecting the row to be edited, select or double-click [View]-[Properties].



- (3) Select the word trigger.
- (4) Input the word device.
- (5) Input word condition.
- (6) In case that word condition is [When meeting condition] or [During meeting condition], input the condition.
- (7) Press OK button to close a dialog box.



[Description on a dialog box]

Item		Description							
Word Trigger (a)	It configures trigger on condition of word device.								
Device (b)	You can input word device.	You can input word device.							
Type(c)	It selects device type.								
	You can select word condition	l.							
	When condition expression	Condition Expression: 0 < HW0000							
	is fulfilled	100							
		HW0000: 0							
		-100							
	While condition expression	Condition Expression: 0 < HW0000 < 100							
Word Condition(d)	is fulfilled	100							
		HW0000: 0							
		-100							
	When the value is changed	100 † † † †							
		HW0000: 0							
		-100							
Condition Expression (a)	Vou can input condition evers								
Condition Expression (e)	You can input condition expression.								
OK(f)	It saves the details of a dialog box and closes it.								
Cancel (g)	It closes the dialog box without	It closes the dialog box without saving the details of a dialog box.							

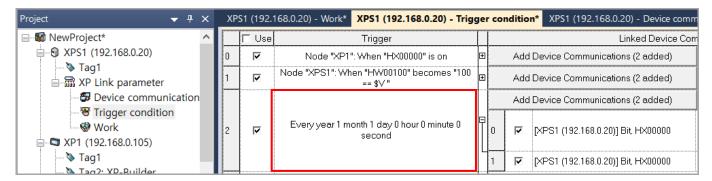
Notice

- (1) Read Only device can not be designated as word condition device.
- (2) Condition expression (e) is active only when word condition is [When meeting condition] or [During meeting condition].

Editing Time Trigger 8.2.3

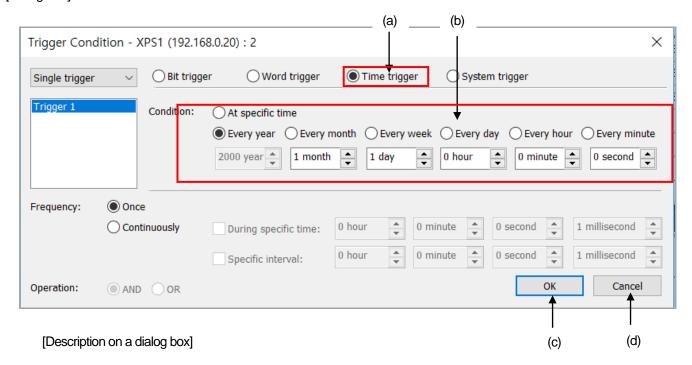
You can configure trigger at a specific time.

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) After selecting the row to be edited, select or double-click [View]-[Properties].



- (3) Select time trigger.
- (4) Set the specific time or repeating time.
- (5) Press OK button to close the dialog box.

[Dialog Box]

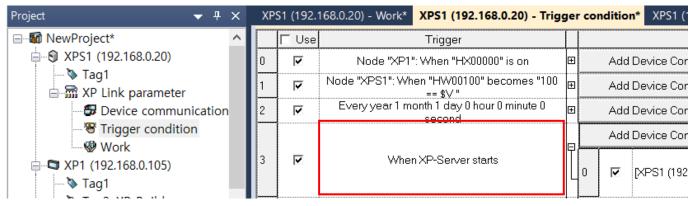


Item	Description
Time Trigger(a)	It configures the trigger at a specific or certain time.
Time Conditions(b)	You can input every year/every month/every week/every hour/every minute with time conditions.
OK (c)	It saves the details of a dialog box and closes it.
Cancel (d)	It closes the dialog box without saving the details of a dialog box.

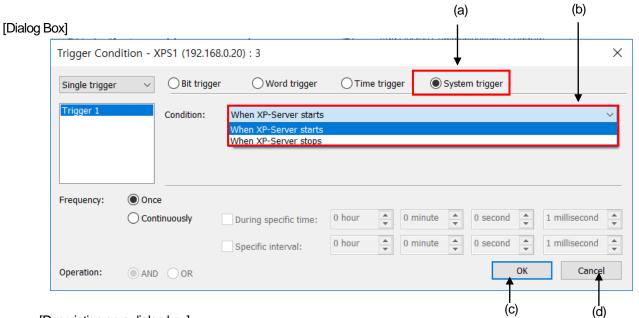
8.2.4 Editing System Trigger

[Procedures]

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) After selecting the row to be edited, select or double-click [View]-[Properties].



- (3) Select system trigger.
- (4) Establish the conditions for system trigger.
- (5) Press OK button to close a dialog box.

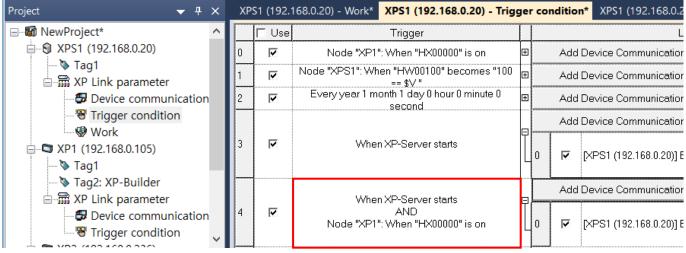


Item	Description			
System Trigger (a)	It configures the trigger with the event that can occur at XGT Panel only.			
Condition(b) It selects the conditions for system event.				
OK(c)	It saves the details of a dialog box and closes it.			
Cancel (d)	It closes the dialog box without saving the details of a dialog box.			

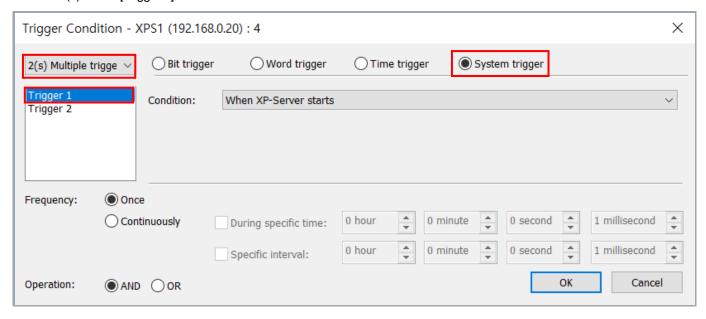
8.2.5 Complex Trigger

When two triggers or more are designated, it is called complex trigger.

- (1) [After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) After selecting the row to be edited, select or double-click [View]-[Properties].

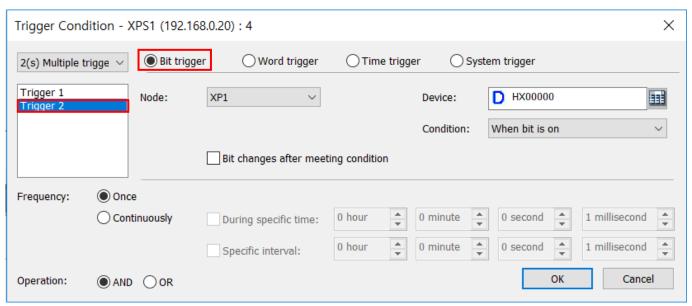


- (3) Select two complex triggers.
- (4) Select [Trigger 1] and set the details.



Chap.8 Trigger Condition

(5) Select [Trigger 2] and set the details.



- (6) Select operation conditions.
- (7) Press OK button to close a dialog box.

- (1) In the case of the given example, conditions are [When monitor stars] and bit [HX0000 is On].
- (2) You can designate the complex triggers up to 4 EA.
- (3) While operation condition AND configures trigger when all conditions are fulfilled, OR configures trigger when even one condition is fulfilled.

8.3 Connecting Device Communication

You can not operate anything with trigger only. Then, if you connect the established trigger to device communication, device communication is available.

[Procedures]

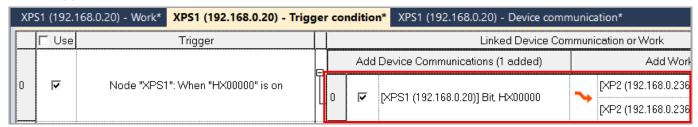
- (1) [After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) After selecting the row to be connected to device communication, select the first one of the rows to be connected device communication.

	□ Use	Trigger	Linked Device Communication or Work						
0	☑	Node "XPS1": When "HX00000" is on	Add Device Communications (0 added)	Add Work (0 added)					
1									
2									

(3) Press the button of the below arrow direction or double-click the cell to open device communication list.

	∏ Use	Trigger		Linked Device Communication or Work								
0	굣	Node "XPS1": When "HX00000" is on		Add Device Communications (0 added) Add Work (0 added)								
1				Use Device Actio Target device								
2	П		n	V	[XPS1 (192.168.0.20)] Bit, HX00000		[XP2 (192.168.0.236)] Bit, HX00100					
3					[21 31 (132.100.0.20)] [31(11200000	7	[XP2 (192.168.0.236)] Bit, HX00000	~				
4	Г		<				>					

- (4) Select the one of device communication list and double-click it.
- (5) Then, selected device communication is connected.



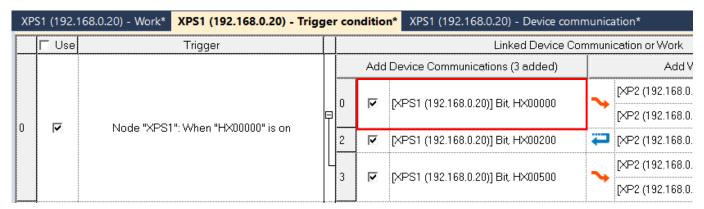
Notice

- (1) The maximum number of connected device communication is 255.
- (2) When trigger is configured, connected device communication works as procedures.
- (3) In the case of the given example, when the value of bit device HX00000 is on, one bit data from the device HX500 is written to bit device HX600 and HX400 of XP2

8.4 Deleting Connected Device Communication

- (1) [After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) Select the device to be deleted.

Chap.8 Trigger Condition



(3) Select [Edit]-[Delete] menu.

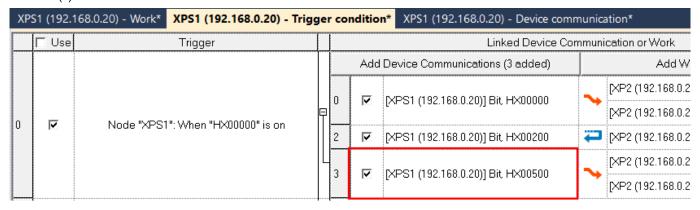
Notice

(1) The function to delete two devices at once is not available.

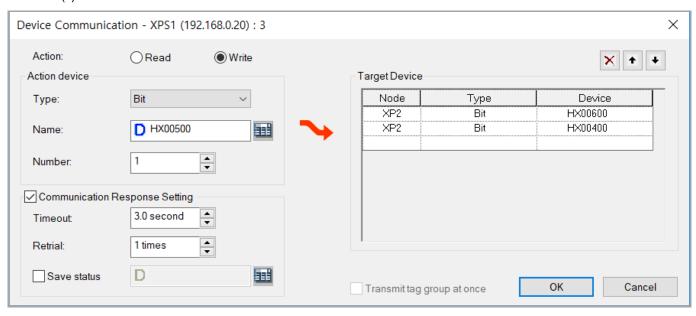
8.5 Editing Connected Device Communication

[Procedures]

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) Select the device to be edited.



- (3) Double-click it or press Enter button.
- (4) Edit the details of device communication.



(5) Press OK button to save changed details.

8.6 Deleting Trigger Condition

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) Select the trigger list to be deleted.

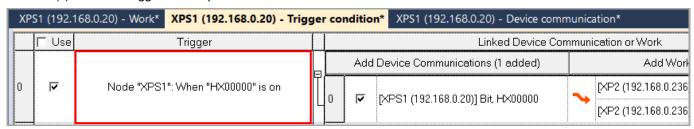
XP	S1 (192.1	(68.0.20) - Work* XPS1 (192.168.0.20) - Trig	r co	ndition	* XPS1 (192.168.0.20) - Device com	ımunic	ation*	
	□ Use	Trigger				Linked Device Co	ommun	ication or Wo
					Add [Device Communications (1 added)		Ac
0	V	Node "XPS1": When "HW00100" becomes "100 == \$V "		0	☑	ND01 (100 100 0 00) D; LIV0000		[XP2 (192.16
				Ľ		[XPS1 (192.168.0.20)] Bit, HX00000	7	[XP2 (192.16
		▼ Node "XPS1": When "HX00000" is on			Add [Device Communications (2 added)		Ac
			P L			D/DC1 /100 100 0 200 D# 11/00000		[XP2 (192.16
1	V			0	2	[XPS1 (192.168.0.20)] Bit, HX00000	*	[XP2 (192.16
					⊽	[XPS1 (192.168.0.20)] Bit, HX00500		[XP2 (192.16
				J			7	[XP2 (192.16

- (3) Select [Edit]-[Delete] menu.
- (4) Then, selected item is deleted.

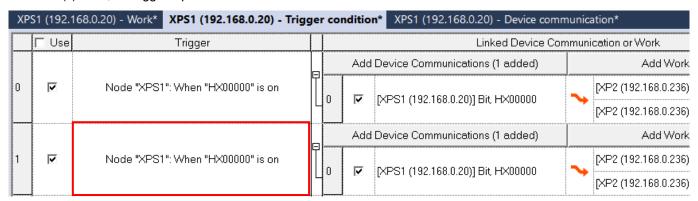
8.7 Trigger Copy/Paste

[Procedures]

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties]
- (2) Select the trigger to be copied.



- (3) Select [Edit]-[Copy] menu.
- (4) Select the row for Paste.
- (5) Select [Edit]-[Paste] menu.
- (6) Then, the trigger is pasted.



Notice

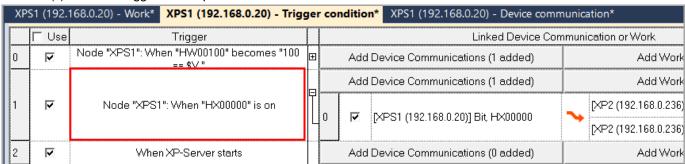
- (1) If the row for Paste is already declared trigger, overwrite is available.
- (2) You can not copy the connected device communication only.
- (3) You can perform Copy/Paste to other XP-Manager.
- (4) When the device of copied trigger is pasted, it may not be displayed. If the PLC Driver of copied node is different form the PLC Driver of pasted node, it is not displayed.

3.1

8.8 Trigger Cut/Paste

[Procedures]

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties].
- (2) Select the trigger to be copied.



- (3) Select [Edit]-[Cut] menu.
- (4) Then, selected row is deleted.

XP	XPS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication*								
	□ Use	Trigger		Linked Device Con	nmunication or Work				
0	v	Node "XPS1": When "HW00100" becomes "100 == \$V "	⊞	Add Device Communications (1 added)	Add Wor				
1									
2	☑	When XP-Server starts		Add Device Communications (0 added)	Add Wor				

- 5)Select the row for Paste.
 - (6)Select [Edit]-[Paste] menu.
 - (7) Then, the trigger is pasted.

XP	XPS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication*										
	□ Use	Trigger	Γ	Linked Device Con	nmuni	cation or Work					
0	V	Node "XPS1": When "HW00100" becomes "100 == \$√"	⊞	Add Device Communications (1 added)		Add Work					
1											
2	☑	When XP-Server starts		Add Device Communications (0 added)		Add Work					
				Add Device Communications (1 added)		Add Work					
3	Node "XPS1": When "HX00000" is on	0		[XP2 (192.168.0.236)]							
		0 [XPS1 (192.168.0.20)] Bit, HX00000	[XP2 (192.168.0.236)]								

8.9 Trigger Condition Drag & Drop

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties].
- (2) Select the edge of row to be dragged and click the left mouse button.

XP	XPS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication									
	□ Use	Trigger			Linked Device Cor	mmunication or Work				
0	V	Node "XPS1": When "HW00100" becomes "100 == \$\forall "	⊞	Ad	d Device Communications (1 added)	Add Work				
1										
2	V	When XP-Server starts		Ad	d Device Communications (0 added)	Add Work				
				Ad	d Device Communications (1 added)	Add Work				
3	V	Node "XPS1": When "HX00000" is on			NDC1 (102 100 0 20)] B# HV00000	[XP2 (192.168.0.236)]				
			4"	0	[XPS1 (192.168.0.20)] Bit, HX00000	[XP2 (192.168.0.236)]				

- (3) Put the mouse to the position to be dragged and out it away.
- (4) You can see that the selected row is moved.

XP	S1 (192.1	168.0.20) - Work* XPS1 (192.168.0.20) - Trig	ge	r c	on	ditio	on* XPS1 (192.168.0.20) - Device com	munio	cation*
	□ Use	Trigger	Γ	Γ			Linked Device Co	mmur	nication or Work
0									
1									
2	₽	When XP-Server starts				Add	d Device Communications (0 added)		Add Work
						Add	d Device Communications (1 added)		Add Work
3	V	Node "XPS1": When "HX00000" is on	ľ		T	굣	N/DC1 /102 100 0 200 Dix LIV00000		[XP2 (192.168.0.236)
			-	ľ		V	[XPS1 (192.168.0.20)] Bit, HX00000	7	[XP2 (192.168.0.236)
4	V	Node "XPS1": When "HW00100" becomes "100 == \$\forall "	∄			Add	d Device Communications (1 added)		Add Work

- (1) The Drag & Drop function at the identical screen is the same as Copy/Paste.
- (2) The Drag & Drop function to other screen is the same as Copy/Paste.
- (3) If you drop with pressing Ctrl button, Copy/Paste function at the same screen.

8.10 Undo Edition for Trigger Condition

[Procedures]

- (1) After selecting [Trigger Condition] from a project screen, select or double-click [View]-[Properties].
- (2) Select the row to be deleted.

X	XPS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication*										
	□ Use	Trigger				Linked Device Cor	nmuni	cation or Work			
0	☑	Node "XPS1": When "HW00100" becomes "100 == \$ V"	∄		Ado	Device Communications (1 added)		Add Work			
		Node "XPS1": When "HX00000" is on			Add Device Communications (1 added)			Add Work			
1	✓			Ω		[XPS1 (192.168.0.20)] Bit, HX00000		[XP2 (192.168.0.236)			
			Н	U	ľ	[AF31 (192.100.0.20)] bit 1 1A00000	7	[XP2 (192.168.0.236)			
2	₹	When XP-Server starts			Add	Device Communications (0 added)		Add Work			

(3) Select [Edit]-[Delete] menu and delete it.

XP	XPS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication*									
	□ Use	Trigger		Linked Device Con	nmunication or Work					
0	☑	Node "XPS1": When "HW00100" becomes "100 == \$\/	⊞	Add Device Communications (1 added)	Add Wor					
1										
2	┍	When XP-Server starts		Add Device Communications (0 added)	Add Wor					

- (4) Select [Edit]-[Undo] menu.
- (5) It returns to the previous status before edition.

XF	XPS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication*							
	□ Use	Trigger				Linked Device Con	nmuni	cation or Work
0	V	Node "XPS1": When "HW00100" becomes "100 == \$V "	⊞		Add	Device Communications (1 added)		Add Work
			L		Add	Device Communications (1 added)		Add Work
1	₹	Node "XPS1": When "HX00000" is on	Ī	0	▽	IXPS1 (192.168.0.20)] Bit, HX00000		[XP2 (192.168.0.236)
			_	Ů	Į¥.	[AF31 (132.100.0.20)] DIÇTIA00000	7	[XP2 (192.168.0.236)
2	₹	When XP-Server starts			Add	Device Communications (0 added)		Add Work

Notice

- (1) You need the previous edition history to Undo Edition.
- (2) Redo Edition is not limited in the quantity.
- (3) You can Undo Edition for all functions.

8.11 Redo Trigger Condition

- (1) After selecting [Device Communication] from a project screen, select or double-click [View]-[Properties].
- (2) Select the row to be deleted.

XP	PS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication*							
	□ Use	Trigger	П			Linked Device Cor	nmuni	cation or Work
0	v	Node "XPS1": When "HW00100" becomes "100 == 4 V."	⊞		Add	Device Communications (1 added)		Add Work
1								
2	V	When XP-Server starts			Add	Device Communications (0 added)		Add Work
					Add	Device Communications (1 added)		Add Work
3	v	Node "XPS1": When "HX00000" is on	ľ	n	V	[XPS1 (192.168.0.20)] Bit, HX00000		[XP2 (192.168.0.236)]
			-	U	14	[AF 31 (132.100.0.20)] BIK FIX00000	7	[XP2 (192.168.0.236)]

(3) Select [Edition]-[Delete] menu and delete it.

XP	PS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication*								
	□ Use	Trigger	Γ				Linked Device Co	ommu	nication or Work
0									
1	П								
2	ゼ	When XP-Server starts				Ad	d Device Communications (0 added)		Add Work
						Ad	d Device Communications (1 added)		Add Work
3	V	Node "XPS1": When "HX00000" is on	ľ			굣	[XPS1 (192.168.0.20)] Bit, HX00000		[XP2 (192.168.0.236)
			ľ		Į¥.	[AF31 (192.100.0.20)] DICTIA00000	7	[XP2 (192.168.0.236)	
4	V	Node "XPS1": When "HW00100" becomes "100 == \$\forall "	∄			Ad	d Device Communications (1 added)		Add Work

- (4) Select [Edit]-[Undo] menu.
- (5) Then, it returns to the previous status before edition.

XP	(PS1 (192.168.0.20) - Work* XPS1 (192.168.0.20) - Trigger condition* XPS1 (192.168.0.20) - Device communication*					
	□ Use	Trigger		Linked Device Communication	or Work	
0	V	Node "XPS1": When "HW00100" becomes "100 \$\forall "	Ŧ	Add Device Communications (1 added)	Add Work	
1	□					
2	V	When XP-Server starts		Add Device Communications (0 added)	Add Work	
			0	Add Device Communications (1 added)	Add Work	
3	V	▼ Node "XPS1": When "HX00000" is on	ľ	I I :	(192.168.0.236)]	
				1 - 10 - 10 - 1 (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	(192.168.0.236)]	

- (6) Select [Edit]-[Redo] menu.
- (7) Then, selected row is deleted again.

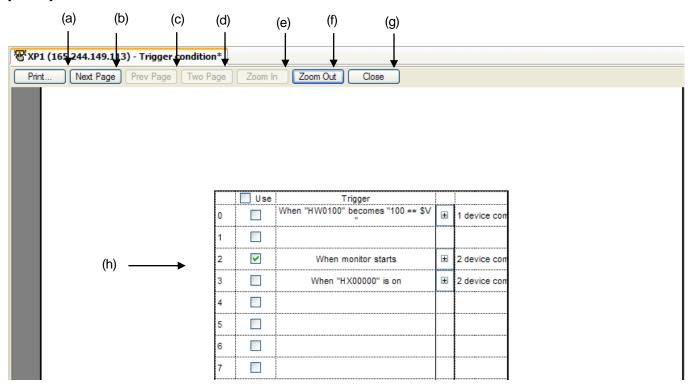
- (1) Redo Edition is not limited in the quantity.
- (2) You need the previous edition history to Redo Edition.

8.12 Trigger Condition Print Preview

[Procedures]

- (1) After selecting [Trigger Condition] at a project screen, select or double-click [View]-[Properties].
- (2) Select Trigger Condition screen.
- (3) Select [Project]-[Print Preview] menu.

[Screen]



[Description on a screen]

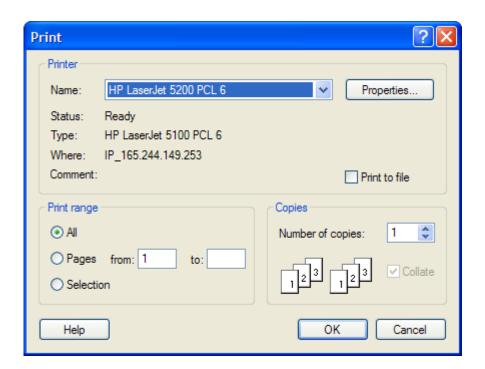
Item	Description
Print(a)	It prints the current screen.
Next(b) It previews the next screen.	
Previous (c)	It previews the previous screen.
Two Pages(d)	It previews two pages per screen.
Zoom In (e)	It expands the current screen to full size.
Zoom Out(f)	It reduces the current Preview Screen.
Close(g)	It closes the Preview Screen and moves to the Edition Screen.
Screen(h)	It previews the current screen.

- (1) It is printed as Preview Screen.
- (2) Through Preview Screen, you can adjust the screen not to be cut with the width of row.
- (3) Edition is not available at Preview Screen.

8.13 Printing Trigger Condition

[Procedures]

- (1) After selecting [Trigger Condition] at a project screen, select or double-click [View]-[Properties].
- (2) Select Trigger Condition screen.
- (3) Select [Project]-[Print] menu.
- (4) The Print Dialog Box will be shown as below.
- (5) Then, press [OK] button to print it.



Notice

(1) The below Pint Dialog Box may be different from Windows version.

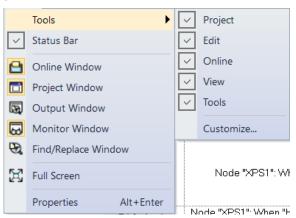
Chap.9 View

9.1 Tools

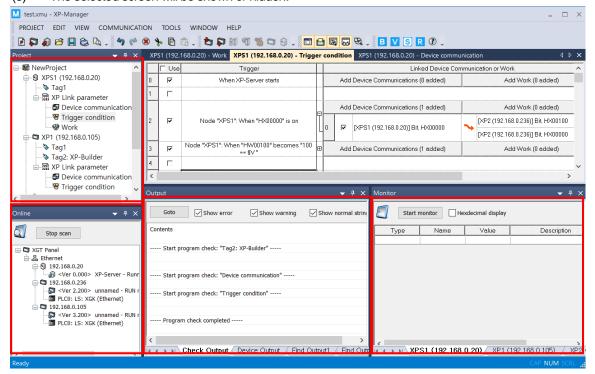
You can show or hide docking screen.

[[Procedures]

Select [View]-[Tools] menu. (1)



- (2)Select the name of a screen.
- The selected screen will be shown or hidden. (3)

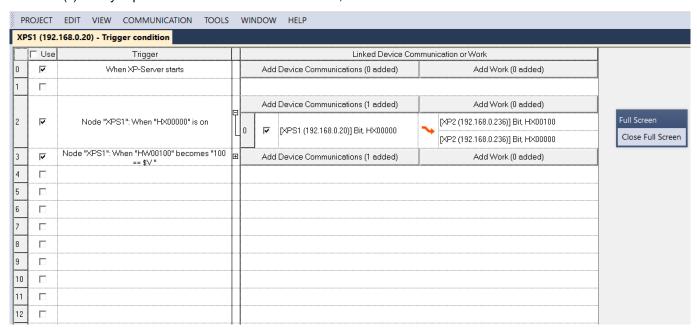


Notice

(1) You can show or hide project screen, online screen, output screen, monitor screen.

9.2 Full Screen

- Open device communication screen or trigger condition screen. (1)
- (2)Select [View]-[Full Screen] menu.
- All tool bars and docking screens will disappear and the current screen will be a full size. (3)
- (4) If you press Close Full Screen or ESC button, it will back to the initial screen.



9.3 New Screen

[Procedures]

- (1) Open device communication screen or trigger condition screen.
- (2) Select [Window]-[New Window] menu.
- (3) The screen that is the same as current selected screen is opened.

XI	XPS1 (192.168.0.20) - Trigger condition XP1 (192.168.0.105) - Trigger condition									
	∏ Use	Trigger		Linked Device Communication or Work						
0	✓	When XP-Server starts			Add	Device Communications (0 added)		Add Work (0 added)		
1										
			L		Add	Device Communications (1 added)		Add Work (0 added)		
2	2 Node "XPS1": When "HX00000" is on				_	[XPS1 (192.168.0.20)] Bit, HX00000		[XP2 (192.168.0.236)] Bit, HX00100		
				0	₽			[XP2 (192.168.0.236)] Bit, HX00000		
3	V	Node "XPS1": When "HW00100" becomes "100 == \$V "	∄		Add Device Communications (1 added)			Add Work (0 added)		
4			Ī							
5										

- (1) The new screen is opened as the type of [Screen name: number].
- (2) If edition proceeds at opened new screen, the same screens will be renewed all.

9.4 Close All

You can close the opened screens at once.

- (1) Open device communication screen or trigger condition screen.
- (2) Select [Window]-[Close All] menu.
- (3) Then, all opened screens are closed.

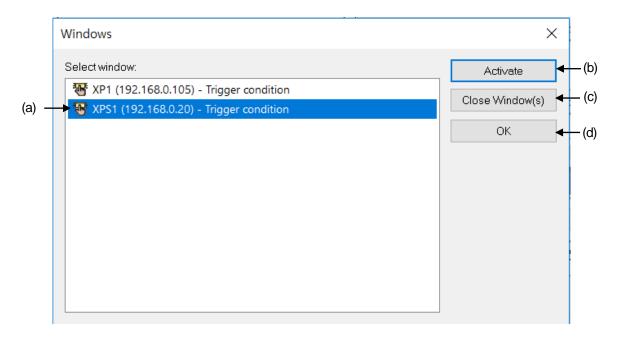
9.5 Other Screen

You can check the list of opened screen and close or open it.

[Procedures]

- (1) Open device communication screen or trigger condition screen.
- (2) Select [Window]-[Windows] menu.

[Dialog Box]



Item	Description
Screen List (a)	It displays the list of open screen at XP-Manager
Activate(b)	It activates the screen selected from the list and closes a dialog box.
Close(c)	It closes the screen selected from the list.
OK(d)	It closes a dialog box.

Chap.10 Tool

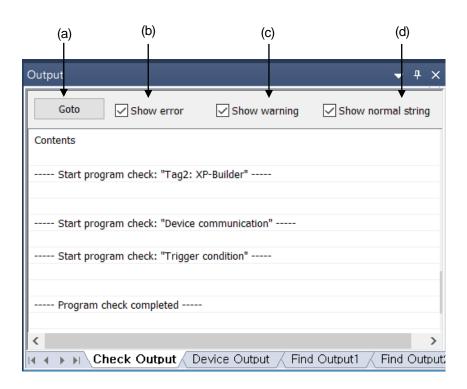
10.1 Checking Error

It checks the project.

[Procedures]

- (1) Open the project.
- (2) Select [Tool]-[Check Program] menu.
- (3) Check the error of a project.
- (4) It displays the result at output screen.

[Screen]



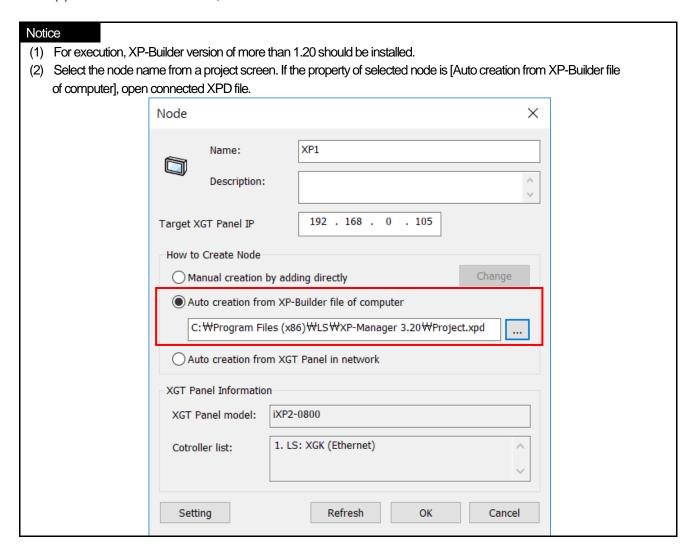
[Description on a screen]

Item	Description
Goto(a)	It moves to the selected screen where error or alarm occurs from the list.
Show Error (b)	It shows or hides error items at the list.
Show Warning (c)	It shows or hides alarm items at the list.
Show normal string (d)	It shows or hides normal string item at the list.

- (1) XP Link parameter is downloaded, error is checked. After checking, if there is error, download is not available.
- (2) After checking, error is displayed as red characters.

10.2 XP-Builder Execution

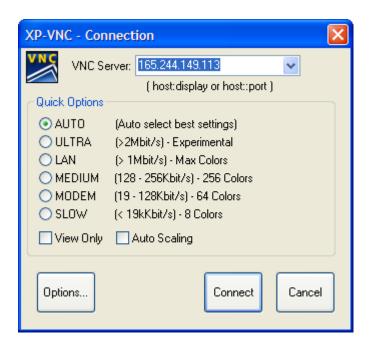
- Select [Tool]-[Start XP-Builder] menu. (1)
- If XP-Builder is installed, XP-Builder will be executed. (2)



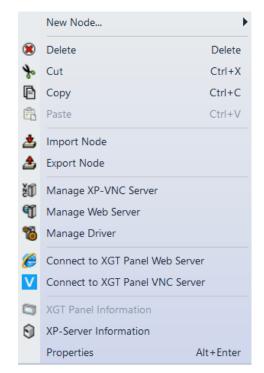
10.3 Executing XP-VNC

[Procedures]

- (1) Select [Tool]-[Start XP-VNC] menu.
- (2) XP-VNC starts.



- (1) For the details on XP-VNC, refer to the Chap.12 VNC Client and ActiveX.
- (2) If you select the node from a project screen and apply [Connect to XGT Panel VNC Server] of context menu, it will be automatically connected with executing XP-VNC. In this case, XP-VNC should be downloaded and XP-VNC server should be under operation.

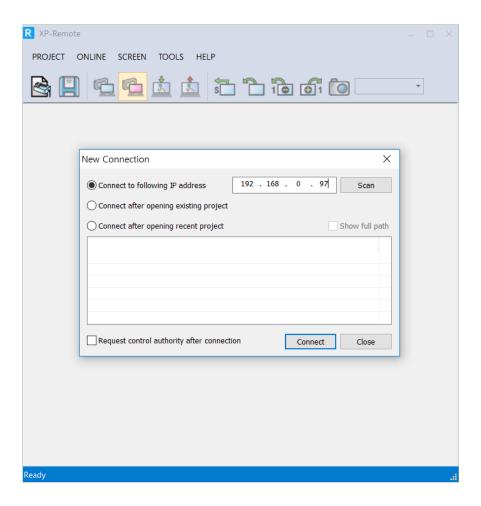


(3) If you select XGT Panel at online screen and apply [Connect to XGT Panel VNC Server] of context menu, it will be automatically connected with executing XP-VNC.

10.4 Executing XP-Remote

[Procedures]

- (1) Select [Tool]-[Start XP-VNC] menu.
- (2) XP-VNC starts.



Notice

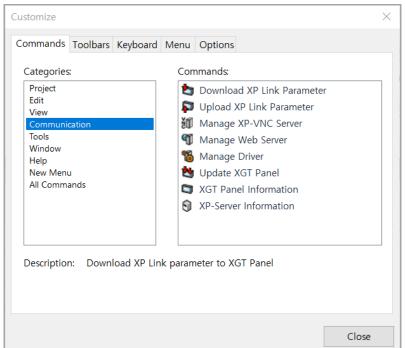
(1) If more than one XP-Remote is installed, the latest version of XP-Remote will run..

10.5 Customize

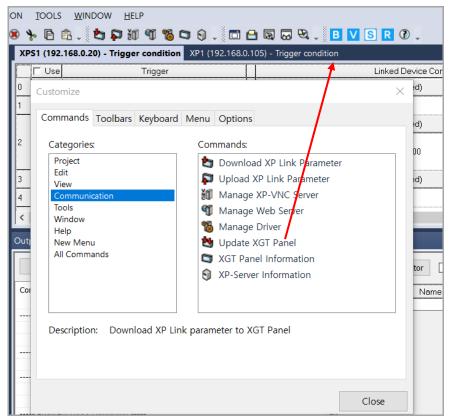
You can add the hotkey of menus and tool bar button.

10.5.1 Command

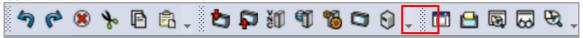
- Select [Tool]-[Customize] menu. (1)
- (2) Select [Commands] tab.
- (3)Select the menu where shortcut button will be added from the menu list with a tool bar.



(4) Drag & Drop the selected menu above the tool bar.



(5) Then, a new menu button will be added.



Notice

(1) The information on added button is saved at registry.

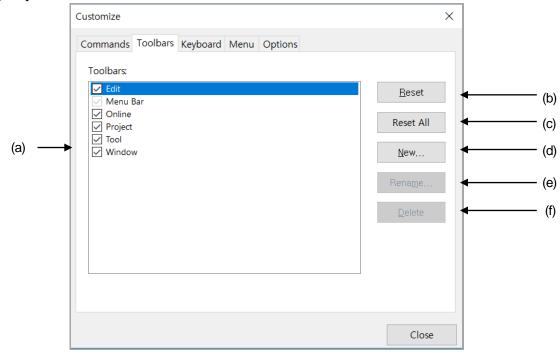
10.5.2 Tool Bar

You can add or delete a new tool bar.

[Procedures]

- (1) Select [Tool]-[Customize] menu.
- (2) Select [Tool Bars] tab.

[Dialog Box]



Item	Description
List(a)	It shows tool bar list. It can show or hide tool bar by checking.
Reset (b)	It restores the details of selected tool bar to the initial installed status.
Reset All(c)	It restores the details of all tool bars to the initial installed status.
New(d)	You can make a new tool bar.
Donomo (a)	You can change the name of new tool bar but this option is not available for
Rename (e)	the existing tool bar at initial installation.
Doloto (f)	You can delete new tool bar but this option is not available for the existing tool bar
Delete (f)	at initial installation.

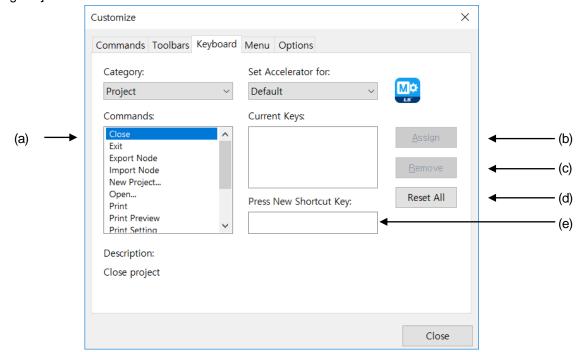
10.5.3 Keyboard

You can designate hotkey of menus.

[Procedures]

- (1) Select [Tool]-[Customize] menu.
- (2) Select [Keyboard] tab.
- (3) Select the Command.
- (4) Set new hotkeys.
- (5) Press Allocation button.

[Dialog Box]



Item	Description
Commands (a)	Menu Command List
Assign (b)	It allocates new hotkey settings to the command.
Remove (c)	It deletes the designated hotkey.
Reset All (d)	It renews hotkey for all commands.
Press New Shortcut key (e)	It inputs a new hotkey.

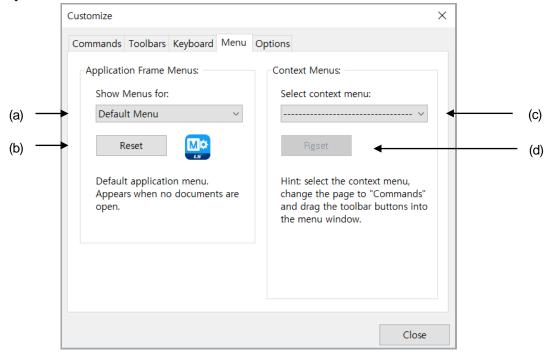
10.5.4 Menu

You can designate the hotkey of menus.

[Procedures]

- (1) Select [Tool]-[Customize] menu.
- (2) Select [Menu] tab.

[Dialog Box]

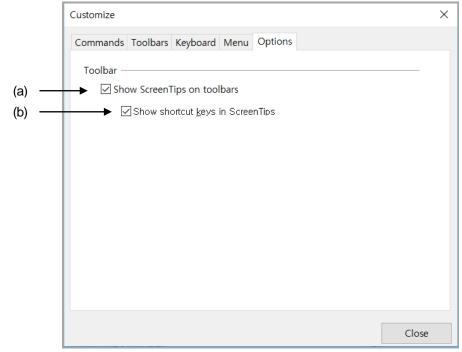


Item	Description
Show Menu for (a)	It selects menu.
Reset(b)	It renews menu.
Select Context Menu (c)	It selects context menu.
Reset (d)	It renews context menu.

10.5.5 Option

- (1) Select [Tool]-[Customize] menu.
- Select [Option] tab. (2)

[Dialog Box]



Item	Description				
	When putting a mouse above tool bar, the menu name will displayed.				
Show Screen Tips on toolbars (a)	Download XP Link Parameter				
	In case that hotkey is designated for the menu, it is also displayed.				
Show Shortcut keys in Screen Tips (b)					

10.6 Option

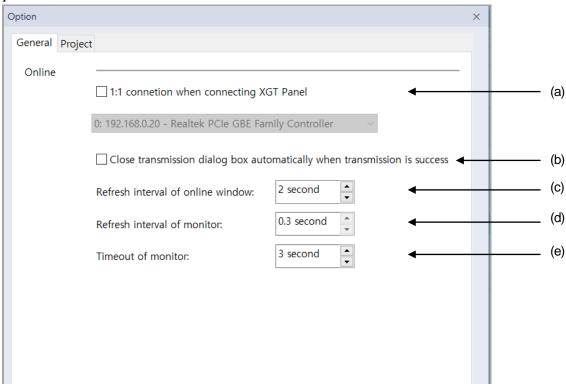
You can change the options of XP-Manager.

10.6.1 Common Option

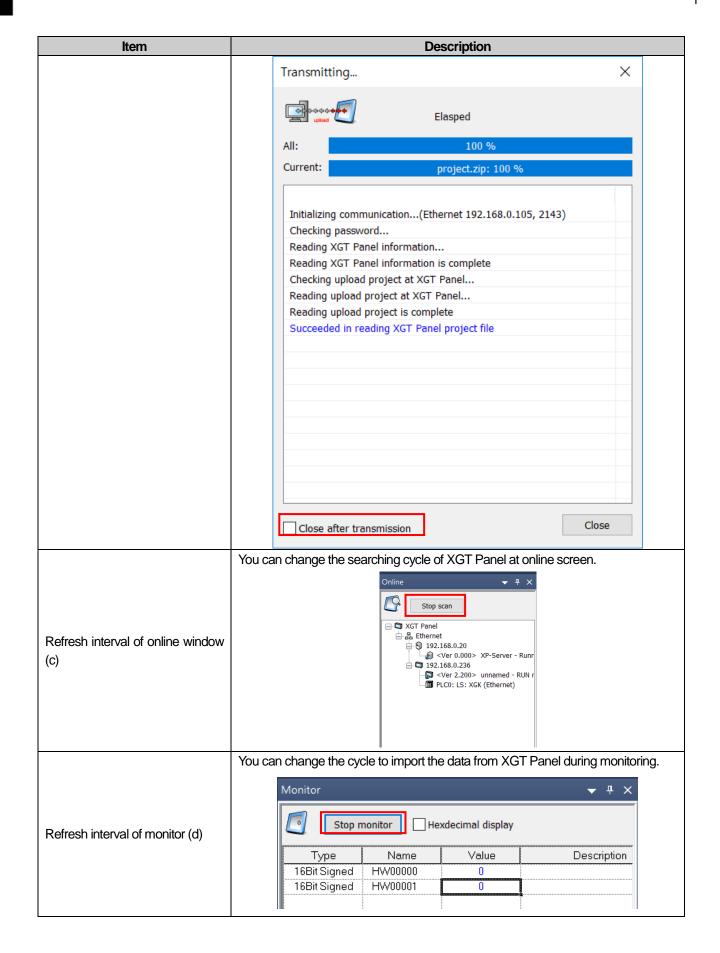
[Procedures]

- (1) Select [Tool]-[Option] menu.
- (2) Select [General] tab.
- Change the details and press OK button or Apply button. (3)

[Dialog Box]



Item	Description
1:1 Connection when connecting	When XGT Panel is connected to Ethernet with a cross cable, the option can be
XGT Panel (a)	applied.
Close transmission dialog box	The option closes automatically the dialog box when transmission dialog
automatically when transmission	box is successfully completed. In case that transmission dialog box fails,
is successfully completed (b)	dialog box is not closed automatically.



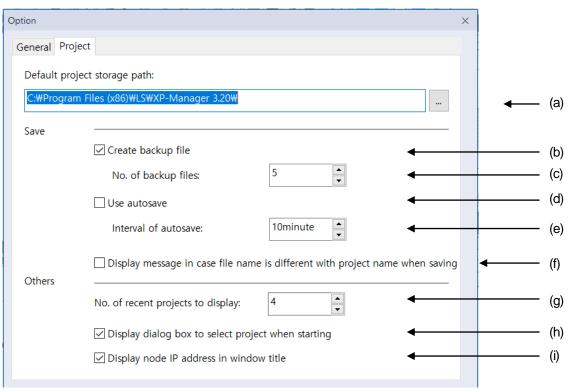
Item	Description
Time Out of Monitor (e)	If you fail to import the data from XGT Panel, you can designate time out.

10.6.2 Project Options

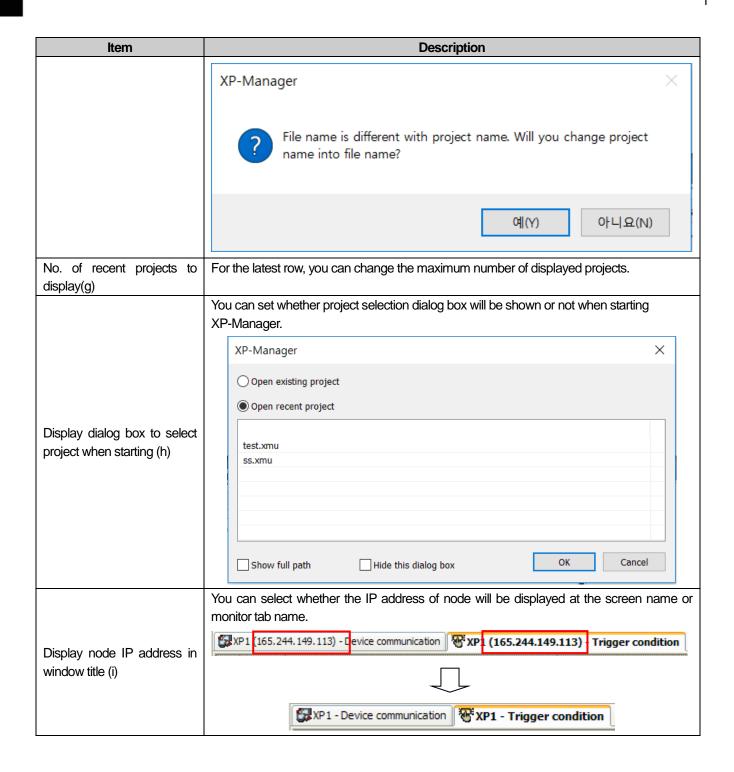
[Procedures]

- (1) Select [Tool]-[Option] menu.
- (2)Select [Project] tab.
- (3)Change the details and press OK button or Apply button.

[Dialog Box]



Item	Description
Default Project storage Path	When saving the project first since its creation, you can designate the path.
(a)	
Create Backup File (b)	When opening the previous saved project and save it, you can back up the
	previous file. The extension of backup file is between bk0 and bk9.
The number of Backup files	You can designate the number of backup files up to 9EA. bk0 is the latest backup file.
(c)	
Use AutoSave (d)	It can be automatically saved during using XP-Manager.
Interval of AutoSave (e)	You can set automatic save interval between 3 minutes and 60 minutes.
Display message in case file	In case the file name is different from the project name, the below message may be shown
name is different with project	during save. If Yes is selected, the project name will be changed into the file name equally.
name when saving (f)	



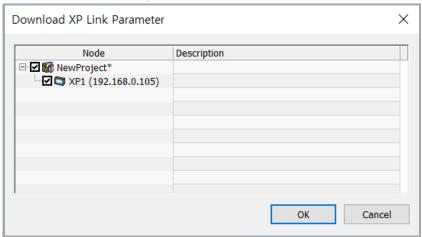
Chap.11 Communication

11.1 XP Link Parameter Download

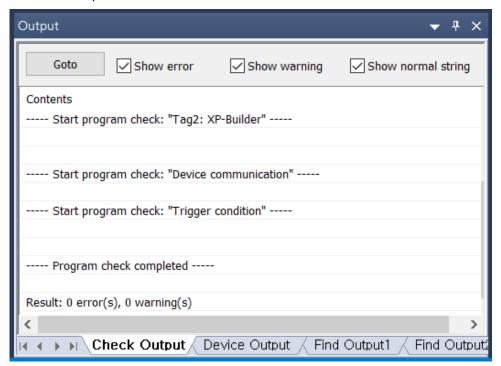
You have to download XP Link parameter to operate device communication between XGT Panels.

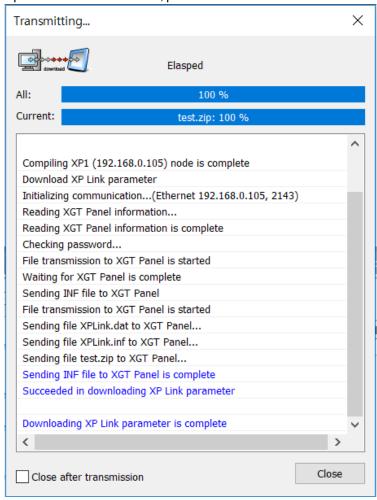
[Procedures]

- (1) Open the project.
- (2) Select [Communication]-[Download XP Link Parameter] menu.
- (3) Check the node for download and press OK button.



(4) Perform error inspection for the checked node.





(5) If it has been proved that there is no error, proceed to download.

Notice

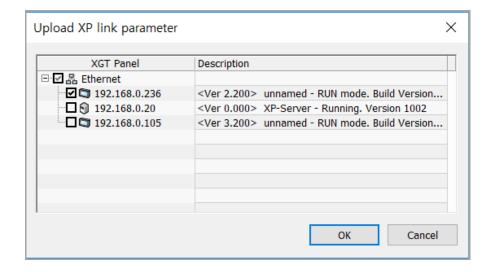
(1) As the result of inspection, the error is displayed as red character

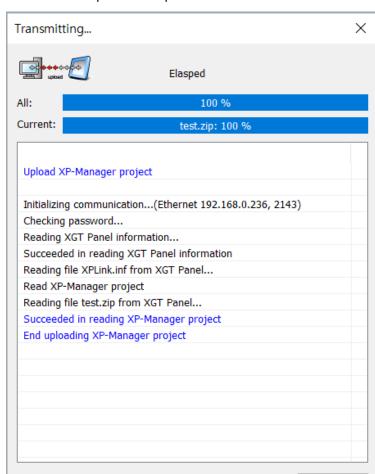
11.2 XP Link Parameter Upload

You can read uploaded project made by XP-Manager from XGT Panel and open the project.

[Procedures]

- (1) Select [Communication]-[Upload XP Link Parameter] menu.
- (2) Check the XGT Panel to be uploaded and press OK button.





Close

(3) Then, the opened project is closed and upload will be performed.

(4) Uploaded project will be open.

Notice

(1) If there is something to be revised at the current project, check whether it will be saved or not.

Close after transmission

11.3 XP-VNC Server Management

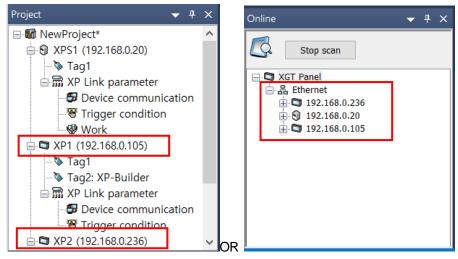
You can download XP-VNC server to XGT Panel and set download XP-VNC parameter. For more details on XP-VNC, refer to the [Chap.12 VNC Client and ActiveX].

🗥 Caution

▶ XGT Panel does not basically provide VNC function. To use VNC function, you need to download parameter and server.

[Procedures]

(1) Select the node from a project screen or select the XGT Panel searched from online screen.



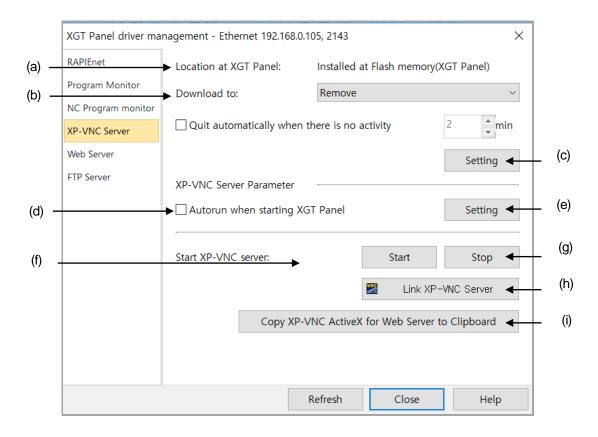
(2) Select [Communication]-[XP-VNC Server Management] menu.

11.3.1 XP-VNC Server Download

[Procedures]

- (1) Select [Flash Memory (XGT Panel)] at the [download to (b)] item.
- (2) Press Set (c) button.
- (3) Then, XP-VNC server is downloaded.

[Dialog Box]



[Description on a dialog box]

Item	Description
Legation at VCT Danal (a)	The position of XP-VNC server file that is already installed at connected
Location at XGT Panel (a)	XGT Panel
Download to (b)	You can set the position of XGT Panel to be downloaded newly.
Set (c)	You can download or delete XP-VNC server.
Auto run when starting XGT Panel (d)	XP-VNC server is automatically executed when starting XGT Panel.
Set (e)	It downloads XP-VNC server parameter.
Start XP-VNC Server (f)	It starts to operate XP-VNC Server of target XGT Panel.
Stop XP-VNC Server (g)	It stops to operate XP-VNC server of target XGT Panel.
Link XP-VNC Server (h)	It executes XP-VNC client and connects XP-VNC of the target XGT Panel.
Copy XP-VNC ActiveX for web	It copies ActiveX for XP-VNC and HTML file with usage example to
server to clipboard (i)	a clipboard. After executing Windows Explorer, you can paste and use them.

Notice

(1) You cannot operate XP-VNC only with downloading XP-VNC server. Press XP-VNC Server Start(f) button to start XP-VNC server.

11.3.2 Deleting XP-VNC Server

[Procedures]

- Select [Remove] at the [download to (b)] item. (1)
- (2) Press [Set(c)] button.

Notice

(1) If you press Refresh button and [Location at XGT Panel (a)] is displayed as "Not Installed", you can check whether XP-VNC Server is deleted properly.

11.4 Web Server Management

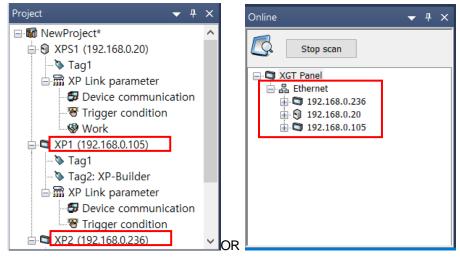
You can download web server to XGT Panel and set download parameters.



▶ XGT Panel does not basically provide web server function. To use web server, you need to download parameter and web server.

[Procedures]

Select the node from a project screen or select the XGT Panel searched from online screen. (1)



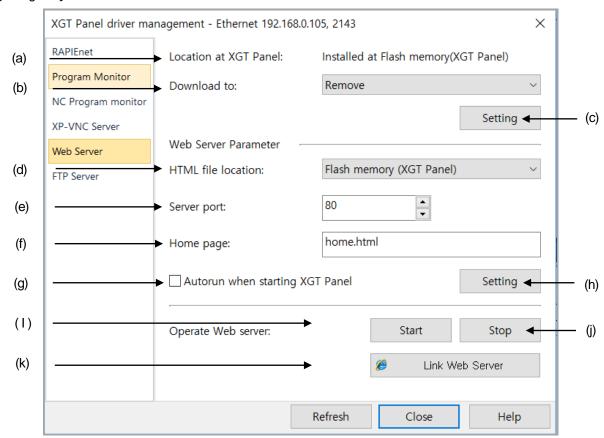
Select [Communication]-[Manage Web Server] menu. (2)

11.4.1 Web Server Download

[Procedures]

- (1) Select [Flash Memory (XGT Panel)] at [Download to (b)] item.
- (2) Press [Sett (c)] button.
- (3)Then, web server is downloaded.

[Dialog Box]



[Description on a dialog box]

Item	Description
Location at XGT Panel (a)	The position of web server file that is already installed at connected XGT Panel
Download to (b)	You can set the position of XGT Panel to be downloaded newly.
Setting (c)	You can download or delete web server.
HTML file location (d)	It sets the position of HTML file used for web server.
Server Port (e)	It inputs Ethernet Port No. that is opened at web server all the time.
Home page (f)	It inputs the name of the page to be shown first when web server is started.
Auto run when starting XGT Panel (g)	Web server is automatically executed when starting XGT Panel.
Setting(h)	It downloads web server parameter.
Start web server operation (i)	It starts to operate web server of target XGT Panel.
Stop web server operation (j)	It stops to operate web server of target XGT Panel.

Link Web Server (k)	It executes internet and connects web server of the target XGT Panel.
Notice	
(1) You cannot operate web server of	ly with downloading web server. Press Start (i) to start web server.
(2) The Web Server Port No. "80" is in	ternational standard port number to change the port number., you need to input and
connect the port number when co	nnecting web server. (Server IP Address: Port No.)
€ http://1	92.168.1.10/home.html - Windows Internet Explo
GO.	[€] 192,168,1,10:8080 I

11.4.2 Deleting Web Server

[Procedures]

- Select [Remove] at [Download to (b)] item. (1)
- (2) Press [Set(c)] button.

Notice

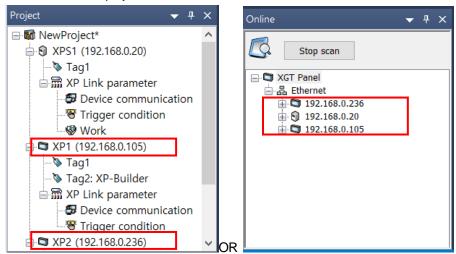
(1) If you press Refresh button and the [Location at XGT Panel] is displayed as "Not Installed", you can check whether XP-VNC Server is deleted properly.

11.5 RAPIEnet Driver Management

You can download and delete the device driver for RAPIEnet Aux Card.

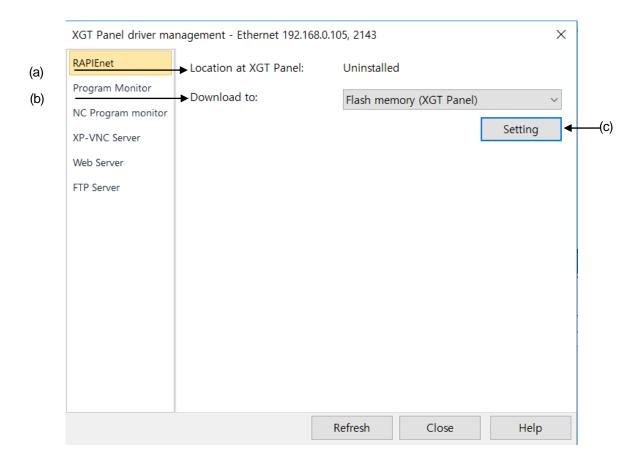
[Procedures]

Select the node from a project screen or select the XGT Panel searched from online screen. (1)



(2) Select [Communication]-[Manage Driver] menu. Select [RAPIEnet] tab.

[Dialog Box]



[Description on a dialog box]

Item	Description
Location at XGT Panel (a)	The position of RAPIEnet server file that is already installed at connected
	XGT Panel
Download to (b)	It sets the position of XGT Panel to be downloaded newly.
Setting (c)	You can download or delete RAPIEnet Driver.

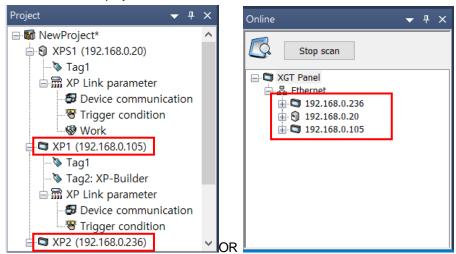


11.6 Program Monitor Driver Management

You can download or delete the program monitor driver of LS ELECTRIC PLC CPU Driver.

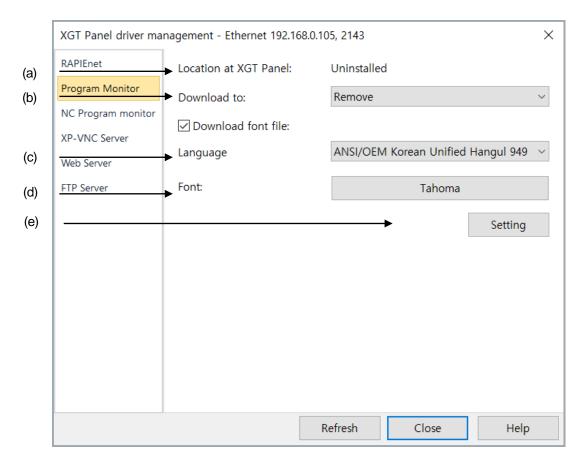
[Procedures]

Select the node from a project screen or select the XGT Panel searched from online screen. (1)



- (2) Select [Communication]-[Manage Driver] menu.
- Select [Program Monitor] tab. (3)

[Dialog Box]



[Description on a dialog box]

Item	Description
Location at XGT Panel (a)	The position of Program Monitor Driver file that is already installed at
	connected XGT Panel
Download to (b)	It sets the position of XGT Panel to be downloaded newly.
Language (c)	It selects the language displayed at program monitor.
Font (d)	It sets the font used for program monitor. When the established font
Fort (a)	file is downloaded, the file size should be considered.
Setting (e)	You can download or delete Program Monitor Driver.

Notice

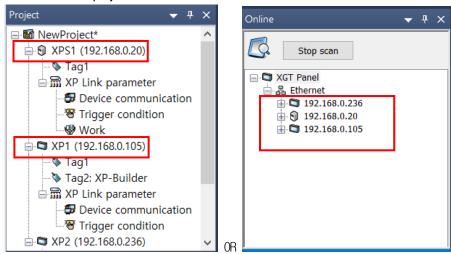
(1) When monitoring Ladder Program, you need to select "ANSI Latin 1 1252" to display the program in English. If "ANSI/OEM Korean Unified Hangul 949" is selected, the program is displayed in Korean

11.7 NC Program Monitor Driver Management

You can download or delete the program monitor driver of LS ELECTRIC PLC CPU Driver

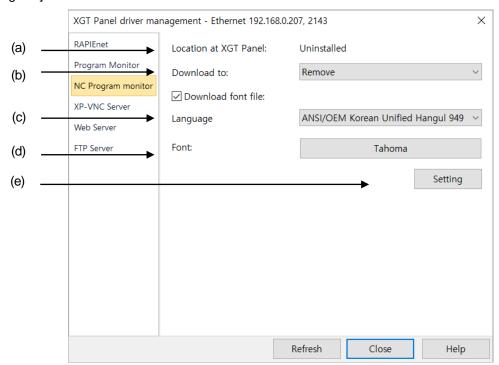
[Procedures]

(1) Select the node from a project screen or select the XGT Panel searched from online screen.



- (2) Select [Communication]-[Manage Driver] menu.
- (3) Select [Program Monitor] tab.

[Dialog Box]



[Description on a dialog box]

ltem	Description	
Location at XGT Panel (a)	The position of Program Monitor Driver file that is already installed at connected XGT Panel	
Download to (b)	It sets the position of XGT Panel to be downloaded newly.	
Language (c)	It selects the language displayed at program monitor.	
	It sets the font used for program monitor. When the established font	
	file is downloaded, the file size should be considered.	
	·	K
	<u> </u>	
	폰트 크기 미리보기	
	Segoe UI Semilight 607,5 KB ABCDE	
	Segoe UI Symbol 822,4 KB ABCDE	
	Shonar Bangla 332,1 KB ABCDE	
	Showcard Gothic 51,1 KB ABCDE	
	Shruti 263,8 KB ABCDE	
	SimHei 9,3 MB ABCDE	
	Simplified Arabic 121,7 KB ABCDE	
	Simplified Arabic Fixed 102,4 KB ABCDE	
Font (d)	SimSun 10,0 MB ABCDE	
	SimSun-ExtB 14,7 MB ABCDE	
	SketchFlow Print 130,7 KB ABCDE	
	Snap ITC 61,7 KB ABCDE	
	Stencil 54,3 KB ABCDE	
	Sylfaen 223,0 KB ABCDE	
	Tahoma 309,8 KB ABCDE	
	Tempus Sans ITC 74,3 KB ABCDE	≣]
	Times New Roman 814,7 KB ABCDE	
	Traditional Arabic 172,9 KB ABCDE	
	Trebuchet MS 133,0 KB ABCDE	+
	확인 취소	
Setting (e)	You can download or delete Program Monitor Driver.	

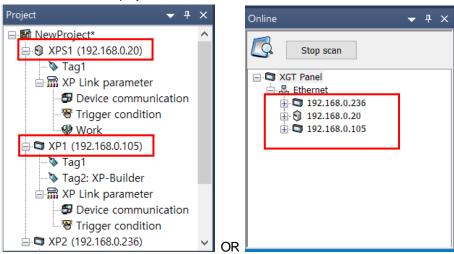
Notice

- (1) "ANSI/OEM Korean Unified Hangul 949" shall be used to indicate the Korean language used in the program when monitoring the ladder program.
 - You must make a selection When "ANSI Latin 1 1252" is selected, only English is displayed.
- (2) When downloading a font file, be aware of the font file size.

11.8 FTP Server

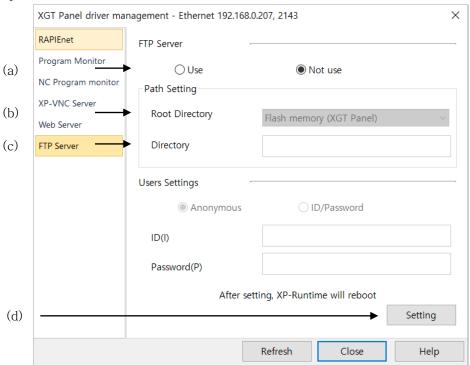
You can set whether to use an FTP server driven by HMI and the folder on the XGT Panel to provide FTP services. [Procedures]

(1) Select the node from a project screen or select the XGT Panel searched from online screen.



- (2) Select [Communication]-[Manage Driver] menu.
- (3) Select [Program Monitor] tab.

[Dialog Box]



[Description on a dialog box]

ltem	Description
Markette and a control control (c)	Use: Use the FTP server service on the XGT Panel.
Whether to set the server path (a)	Not use: XGT Panel 에서 FTP 서버 서비스를 사용하지 않습니다.
Root Directory(b)	The FTP server service is disabled on the XGT Panel.
	If you are using an FTP server, specify an accessible path.
	For example, the iXP2 series is as follows.
	 If you want to access the LSISProduct folder in the FlashDisk folder
Directory(c)	on the XGT Panel, you can set the top-level folder to "Flash memory
	(XGT Panel)" and set it to "LSISProduct" in the directory. If you want
	to access a subfolder of LSISProdcut, you can use
	LSISProcess\Drivers.
UserSetting(d)	Set up an account that can connect to the FTP server
Anonymous(e)	Enable all users to connect.
ID/Password(f)	Set account information
Setting(g)	Lets you apply the above set items to the XGT Panel, such as whether to set
	the server path.

Noties

- (1) Only available in the iXP2 Series. (Excluding iXP2H-0702D and iXP2H-0704D.)
- (2) To access FTP through command, enter ftp ip address in the cmd window •

```
C:\Users\aypark>ftp 192.168.0.97
192.168.0.97에 연결되었습니다.
220 Service ready for new user.
사용자(192.168.0.97:(none)): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
암호:
230 User logged in, proceed.
```

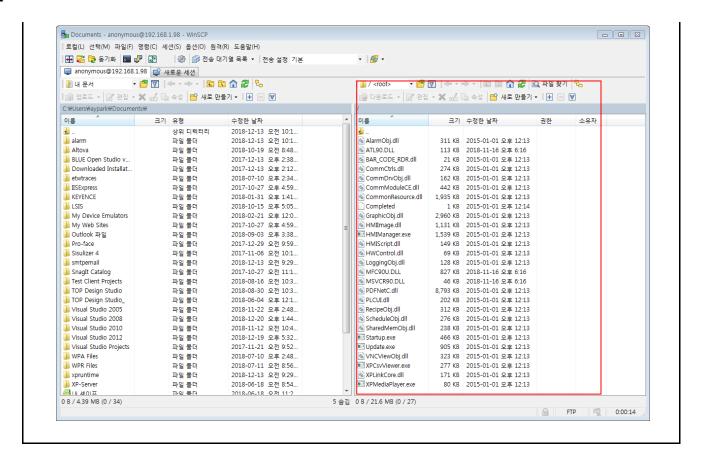
The user is Anonymous, and the password can be entered as [password] if you do not have an email.

(3) To access the directory you set up after setting it up as above, you can install a free-for-deployment FTP Client to access the folder as shown below.

(Ex. https://winscp.net/eng/docs/free_ftp_client_for_windows)

You can use anonymous authentication or anonymous.

Chap.11 Communication



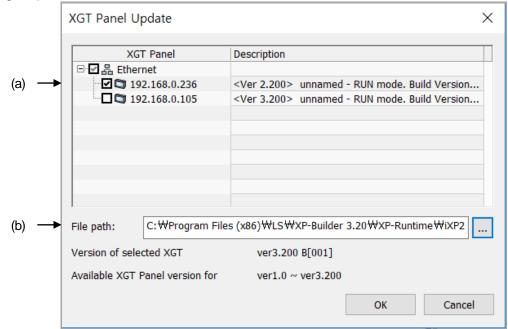
11.9 XGT Panel Update

You can continuously update XGT Panel of network.

[Procedures]

- Select [Communication]-[Update XGT Panel] menu. (1)
- Set the position of update file (b). (2)
- (3)Check XGT Panel (a) to be updated.
- (4) Press OK button to update XGT Panel.

[Dialog Box]



[Description on a dialog box]

Item	Description
XGT Panel List(a)	It is the XGT Panel list displayed at online screen. The checked item will be updated.
File Path (b)	It is the folder where XP-Runtime of XGT Panel is placed.

Notice

(1) XP-Runtime is the software for monitor operated at XGT Panel.

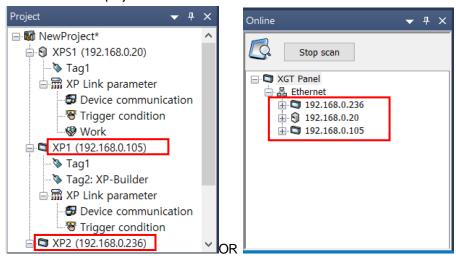
11.10 XGT Panel Information

You can check the information of XGT Panel with various settings.

11.10.1 General

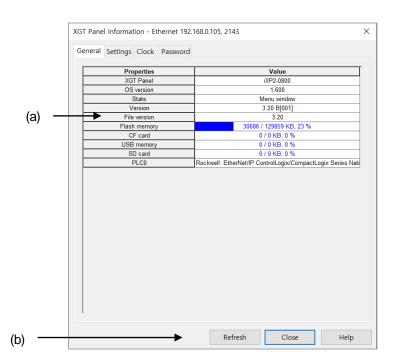
[Procedures]

Select the node from a project screen or select the XGT Panel searched from online screen. (1)



- (2) Select [Communication]-[XGT Panel information] menu.
- (3)Select [General] tab.
- (4) Check the information of XGT Panel.

[Dialog Box]



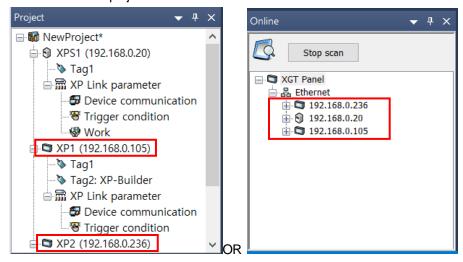
[Description on a dialog box]

Item	Description	
	XGT Panel	It displays the type of XGT Panel.
	OS Version	It displays the OS version of WinCE embedded with XGT Panel
	State	It displays the current operation status of XGT Panel.
	Version	It displays the version of XP-Runtime.
Information(a)	File Version	It displays the version of drawing file downloaded from XP-Builder
	Flash Memory	It displays Flash Memory Occupation.
	CF Card	In case that CF Memory is embedded, it displays CF Memory occupation.
	USB Memory	In case that USB Memory is embedded, it displays USB Memory occupation.
	PLC0 ~ PLC3	It displays the PLC Driver name used for drawing. It is displayed up to 4EA.
Refresh (b)	It updates the details.	

11.10.2 Setting

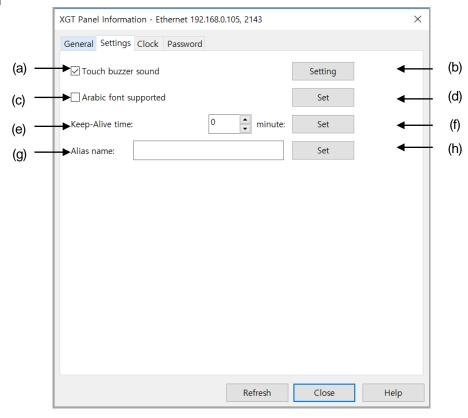
[Procedures]

Select the node from a project screen or select the XGT Panel from online screen. (1)



- (2) Select [Communication]-[XGT Panel Information] menu.
- Select [Settings] tab. (3)
- The details are changed. (4)

[Dialog Box]



[Description on a dialog box]

Item	Description
Touch buzzer sound (a)	It sets whether buzzer or beep sounds when manipulating the touch screen of XGT Panel.
Set (b)	It applies the property of buzzer sound effect when touching the screen to XGT Panel.
Arabic Font supported	It provides the display mode for Arab language font written from the right to the left.
(c)	
Set (d)	It applies the property of Arab language font to XGT Panel.
Koon Alivo timo (a)	If TCP/IP Slave PLC Driver is embedded, it sets the time for a client to check the connection
Keep-Alive time (e)	status.
Set (f)	It applies the property of time to keep connection to XGT Panel.
Alias name (g)	It gives XGT Panel a byname.
Set (h)	It applies the property of machine name to XGT Panel.

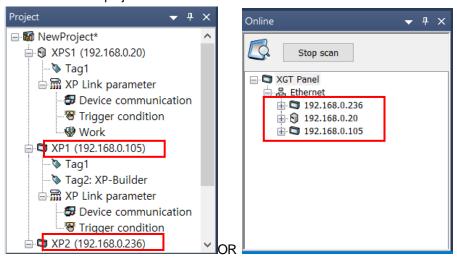
Notice

(1) English/Korean/ Chinese are available for XGT Panel menu language.

11.10.3 Clock

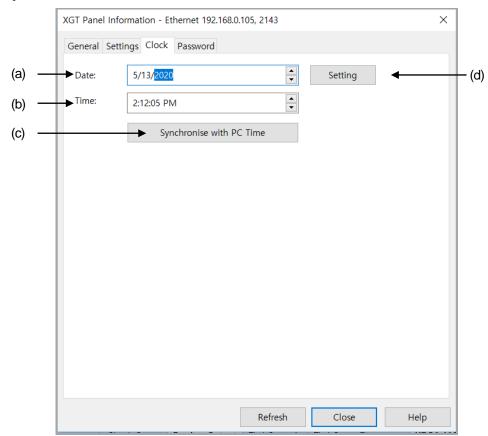
[Procedures]

(1) Select the node from a project screen or select the XGT Panel searched from online screen.



- (2) Select [Communication]-[XGT Panel Information] menu.
- Select [Clock] tab. (3)
- (4) Change a clock

[Dialog Box]



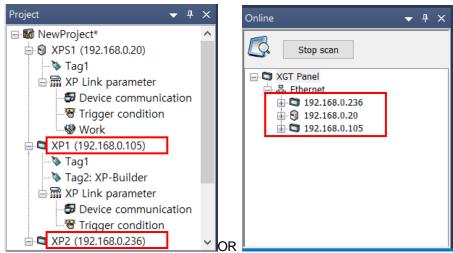
[Description on a dialog box]

Item	Description
Date (a)	It changes the date.
Time (b)	It changes the time.
Synchronize with PC time (c)	It changes the clock of XGT Panel with the date and time of a computer.
Setting (d)	It changes the clock of XGT Panel with input date (a) and time (b).

11.10.4 Password

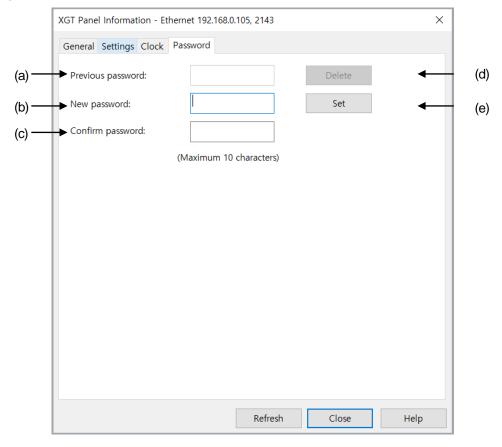
[Procedures]

(1) Select the node from a project screen or select the XGT Panel searched from online screen.



- Select [Communication]-[XGT Panel Information] menu. (2)
- Select [Password] tab. (3)
- (4) Set or delete password.

[Dialog Box]



[Description on a dialog box]

Item	Description
Previous Password (a)	If you try to delete or change password, you are required to input the previous one.
New Password(b)	Input a new password.
Confirm Password(c)	Input the same password as that of New Password (b).
Delete (d)	It deletes the existing password set by XGT Panel.
Set (e)	It sets a new password.

Notice

- (1) A Password is case-sensitive.
- (2) Special characters can be applied to a password.
- (3) The maximum digit of a password is 10.

Chap. 12 Monitor

12. 1 Monitor Registration

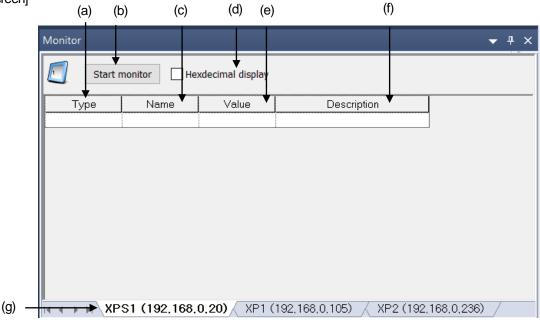
You can monitor the device data of XGT Panel and change the value.

12.1.1 Registration by editing directly

[Procedures]

- (1) Open the project.
- (2)Select the monitor screen.
- (3)Select the node screen (g) to register monitor.
- Establish the type. (4)
- (5) Input the device name and register a monitor.

[Screen]



[Description on a screen]

Item	Description
Type (a)	It selects the type of device to be monitored.
Start Monitor (b)	It starts or terminates to monitor the devices to be registered.
Name(c)	It inputs the name of the device to be monitored.
Hexadecimal display (d)	It can display the value as hexadecimal.
Value (e)	It displays the device value read from XGT Panel.
Description(f)	It can input the comment for the device to be monitored.
Node Screen (g)	One monitor screen is allocated for each node of project and you can select node screen.

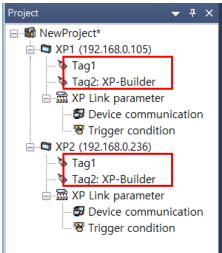
Notice

- (1) You can register the monitor without limitation in the number.
- (2) You can register the monitor with tag.
- (3) If you input the name of proper device first without inputting the type, you can register a monitor.
- (4) The device whose monitor is registered is saved at project file(XPD file)
- (5) When the node is added to project, the monitor screen is added to node screen (g).
- (6) If the node is deleted from the project, the monitor screen will be deleted from the node screen (g).

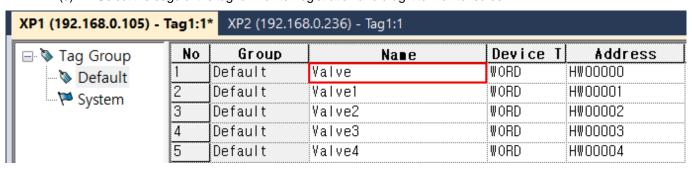
12.1.2 Registration by Drag & Drop from tag screen

[Procedures]

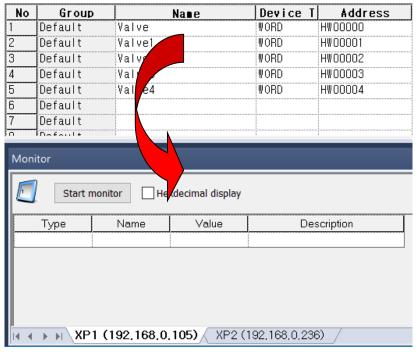
- (1) Open the project.
- (2) Double-click the tag at project screen and open tag screen.



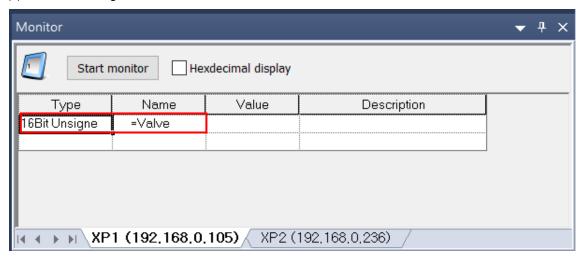
(3) Select the edge of the tag for monitor registration and drag it to monitor screen.



(4) Drop it to monitor screen.



(5) Then, it is registered to the monitor.



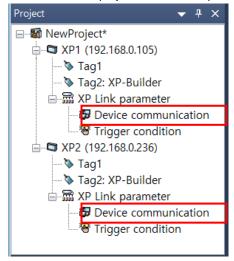
Notice

- (1) You can select and register several tags.
- (2) If tag is moved to the different node screen, it may not be registered properly.
- (3) If the description (f) is changed, the description on tag is not changed. Namely, the description of monitor device is quite different from the tag description.
- (4) If the name or type of tag is changed, error may occur from the tag registered at monitor screen.

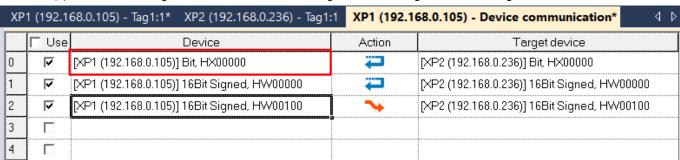
12.1.3 Registration by Drag & Drop from device communication screen

[Procedures]

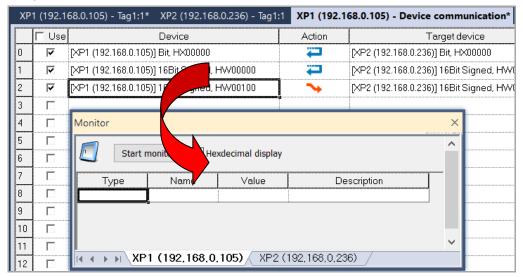
- (1) Open the project.
- (2) Double-click device communication from a project screen and open the tag screen.



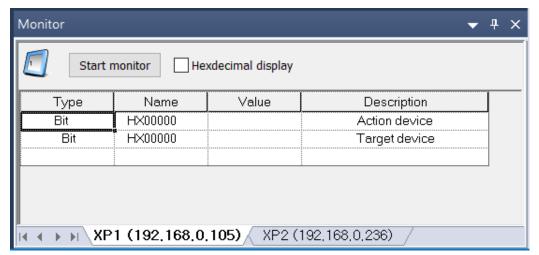
(3) Select the edge of device communication edge for monitor registration and drag it to the monitor screen.



(4) Drop it to the monitor screen.



(5) It is registered to the monitor.



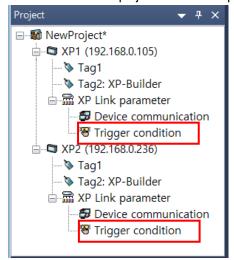
Notice

- (1) You can select and register several device communications.
- (2) If the tag is applied under device communication, it is registered as tag.
- (3) All devices used under device communication are registered.

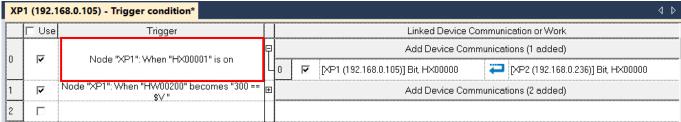
12.1.4 Registration by Drag & Drop from trigger condition

[Procedures]

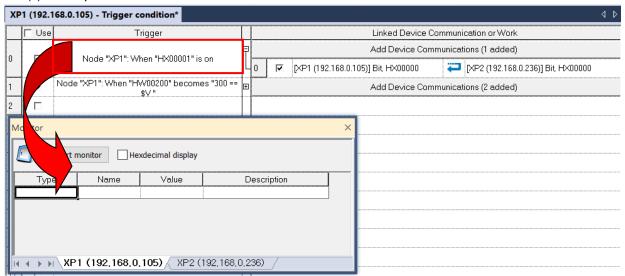
- (1) Open the project.
- (2) Double-click the device communication from a project screen and open the tag screen.



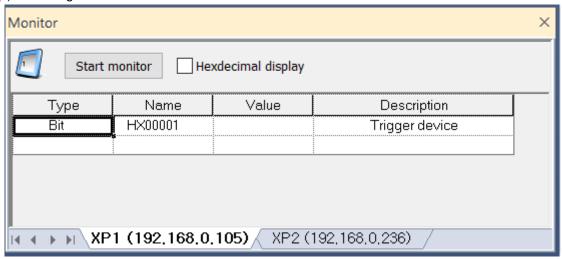
(3) Select the edge of trigger condition for monitor registration and drag it to the monitor screen.



(4) Drop it to the monitor screen.



(5) It is registered to the monitor.



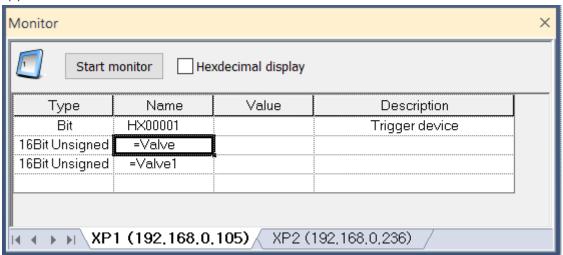
Notice

- (1) You can select and register several trigger conditions.
- (2) If tag is applied under trigger condition, it is registered as tag.
- (3) All devices used in Trigger are registered but devices used in Linked device communication are not registered.

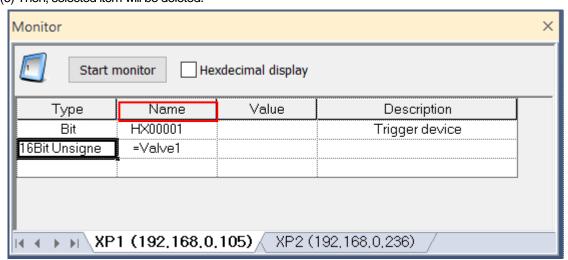
12.2 Deleting Monitor

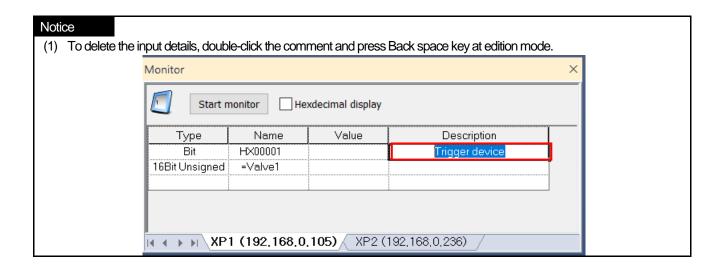
[Procedures]

- (1) Open the project.
- (2) Select the monitor screen.
- (3) Select the node screen (g) for monitor registration.
- (4) Select the monitor time to be deleted.



- (5) Select [Edit]-[Delete] menu.
- (6) Then, selected item will be deleted.

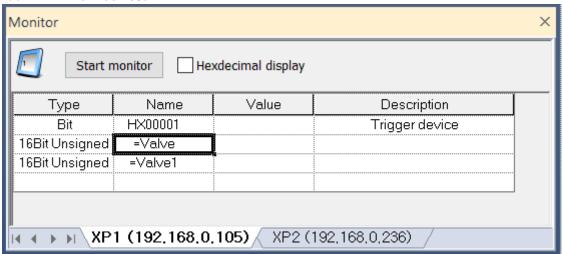




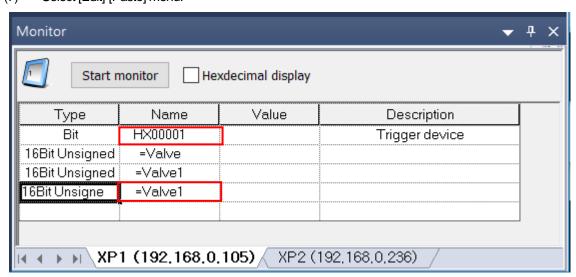
12.3 Monitor Copy/Paste

[Procedures]

- (1) Open the project.
- (2) Select the monitor screen.
- (3) Select the node screen (g) for monitor registration.
- (4) Select the monitor time to be copied
- (5) Select [Edit]-[Copy] menu.



- (6) Move to the cell for Paste.
- (7) Select [Edit]-[Paste] menu.



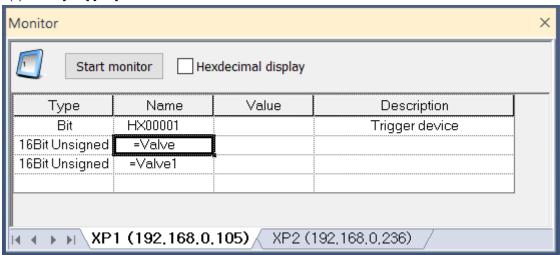
Notice

(1) You can select several monitor items and perform Copy/Paste.

12.4 Monitor Cut/ Paste

[Procedures]

- (1) Open the project.
- (2) Select the monitor screen.
- (3) Select the node screen (g) for monitor registration.
- (4) Select the monitor time to be cut.
- (5) Select [Edit]-[Cut] menu.



- (6) Move to the cell for Paste.
- (7) Select [Edit]-[Paste] menu.

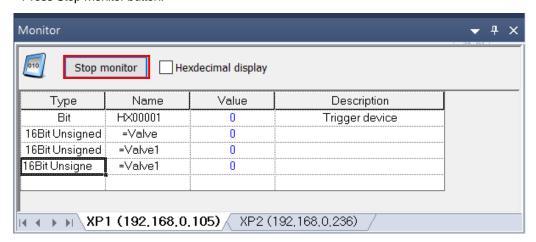
Notice

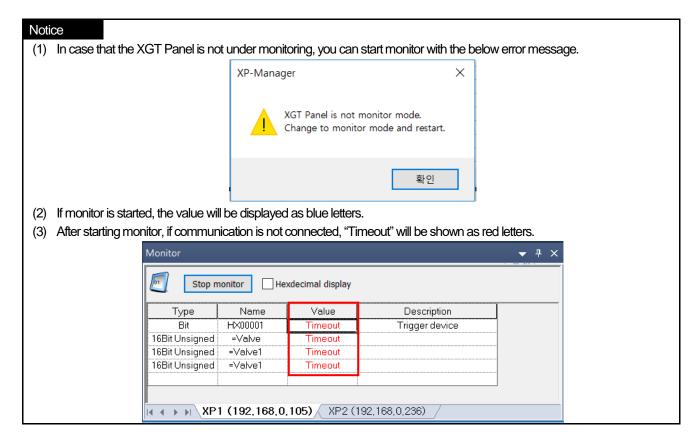
(1) Cut mode is same as Delete after Copy.

12.5 Starting Monitor

[Procedures]

- (1) Open the project.
- (2)Select the monitor screen.
- (3)Select the node screen (g) for monitor registration.
- (4) Register the monitor.
- (5) Press Start Monitor button.
- (6)Then, monitor is started.
- (7) Press Stop Monitor button.

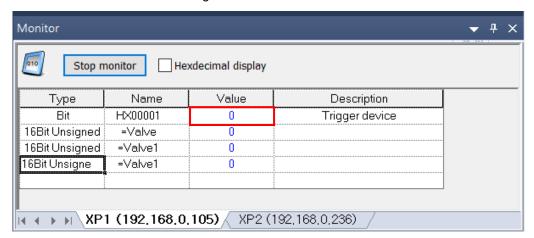




12.6 Changing the current value

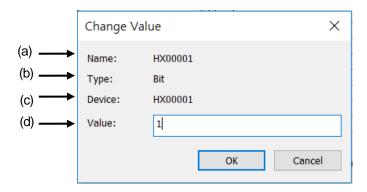
[Procedures]

- (1) Open the project.
- (2) Select the monitor screen.
- (3) Select the node screen (g) for monitor registration.
- (4) Register the monitor.
- (5) Press Start Monitor button.
- (6) Then, monitor is started.
- (7) Select the monitor item to be changed.



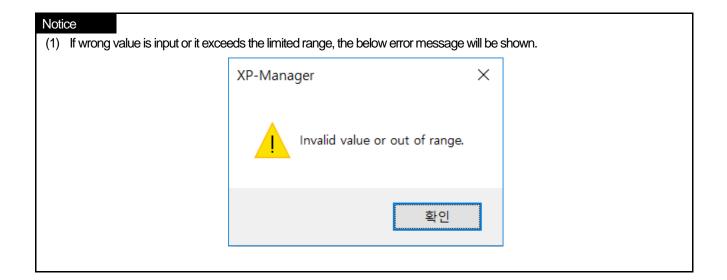
- (8) Select [Change value] of context menu.
- (9) After inputting a new value at 'Change value' dialog box, press OK button to change the value of XGT Panel.

[Dialog Box]



[Description on a dialog box]

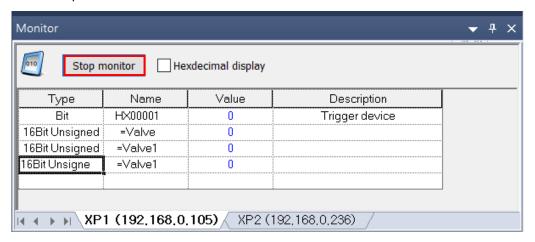
Item	Description	
Name(a)	The name of the item to be changed or tag name is displayed.	
Type(b)	It is the type of the item to be changed.	
Device(c)	It is the name of device to be changed.	
Value(d)	Input the value to be changed.	



12.7 Monitor Stop

[Procedures]

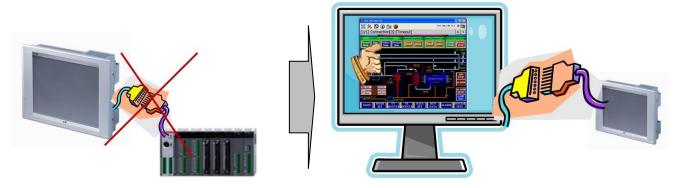
- (1) Open the project.
- (2) Select the monitor screen.
- (3)Select node screen (g) for monitor registration.
- (4) Register the monitor.
- (5) Press Start Monitor button.
- (6) Then, monitor is started.
- (7) Press Stop Monitor button.



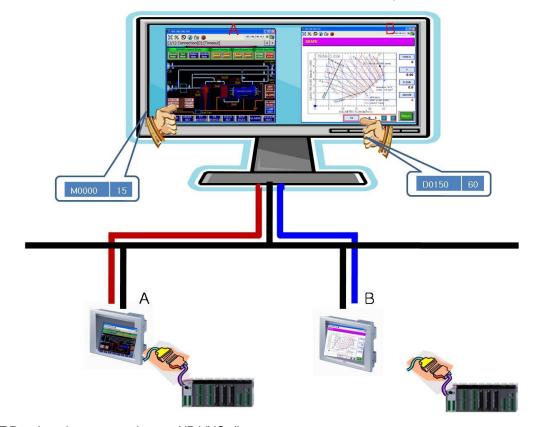
(8) Monitor is stopped.

13.1 Monitoring XGT Panel screen at PC Environment

XP-VNC Client is the tool to check/control the operation data and status of XGT Panel through single application. Namely, the controller such as PLC is not directly monitored, operated by XGT Panel but it is monitored by PC connected with XGT Panel.



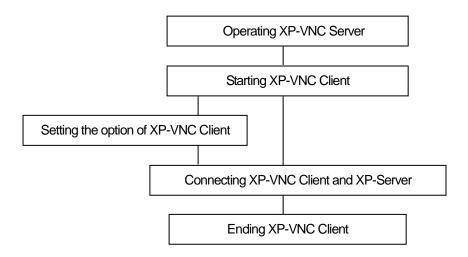
One XP-VNC Client can be connected to several XGT Panels and it can monitor and operate each XGT Panel.



But, one XGT Panel can be connected to one XP-VNC client.

13.2 Operating XP-VNC Client

The operation processes for XP-VNC Client are as below.

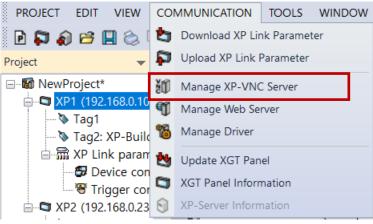


To monitor the XGT Panel screen at a PC; first, start XP-VNC Client of XP Manager. Second, operate XP-VNC server downloaded at XGT Panel to be connected. A user can set the options of XP-VNC Client (resolution, screen capture position, etc.) depending on the circumstances. After the above processes are completed, connect VNC server of the related XGT Panel at XP-VNC Client of PC. After monitoring XGT Panel screen is completed, terminate XP-VNC Client. For more details and process, refer to the below.

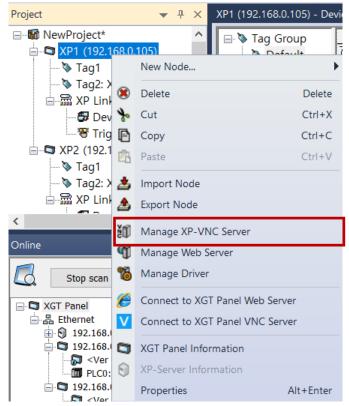
13.2.1 Operating XP-VNC Server

To operate XP-VNC Client, you need to run XP-VNC server downloaded at XGT Panel. There are two methods to operate XP-VNC Server as below.

1) Operate it through [XP-Manager]-[Communication]-[Manage XP-VNC Server]. For more details on XP-VNC, refer to [10.3 XP-VNC Server Management].



2) After selecting the node IP to be connected among the nodes connected XP-Manager, press the right mouse button and select [Manage XP-VNC Server].



13.2.2 Starting XP-VNC Client

There are three methods to start XP-VNC Client as below.

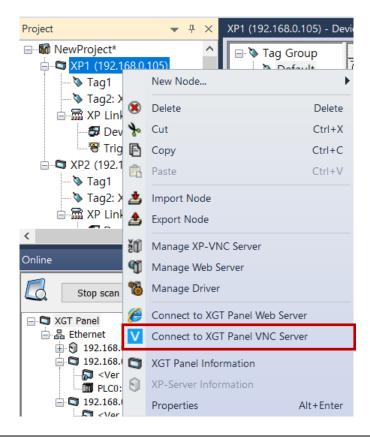
1) Execute [Start]-[LSIS]-[XP-Manger 1.00]-[XP-VNC].



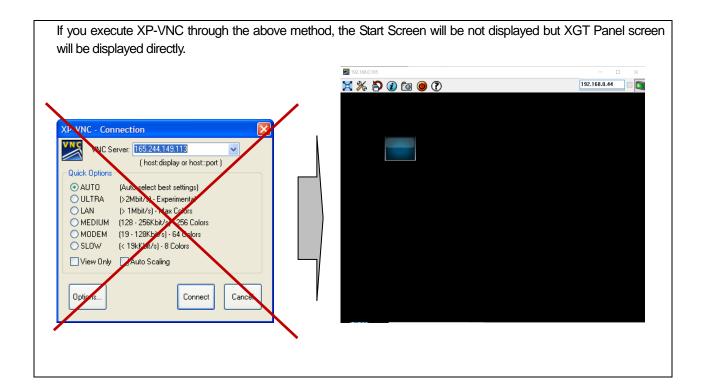
2) Execute XP-VNC at XP-Manager.



3) After selecting node added by XP-Manager, press the right mouse button and select [XP-VNC Server Connection].

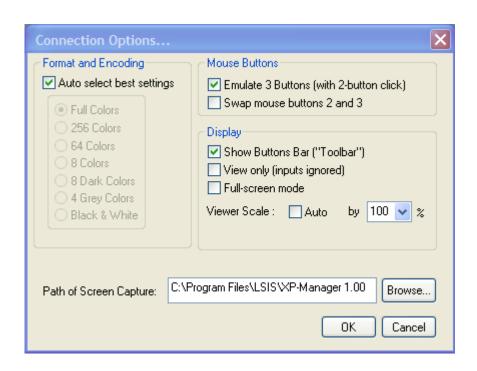






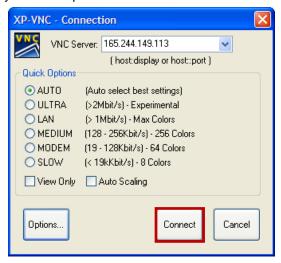
13.2.3 Setting the option of XP-VNC Client

Before connecting XP-VNC Client and XP-VNC Server of XGT Panel, a user can set the options of XP-VNC screen capture position, etc). For more details on setting XP-VNC Client options, refer to [Connection Client(resolution, Option] of [12.4 XP-VNC Client Tool Box].

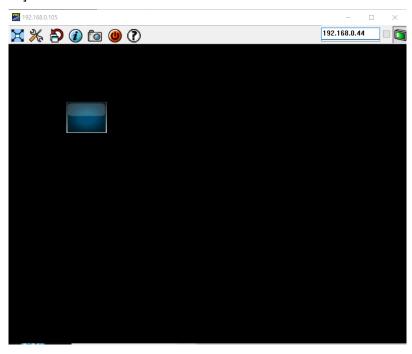


13.2.4 Connecting XP-VNC Client and XP-VNC Server

If you press [Connect] button at connection screen of XP-VNC Client started through the method from 12.2.2, the related server will be connected. It is properly connected provided that XP-VNC server works.



If you press [Connect] button at connection screen of XP-VNC Client as above, it is connected to XGT Panel VNC-Server and the target XGT Panel screen is displayed at PC. For more details on XP-VNC Client screen, refer to [12.3 XP-VNC Client Screen Composition].

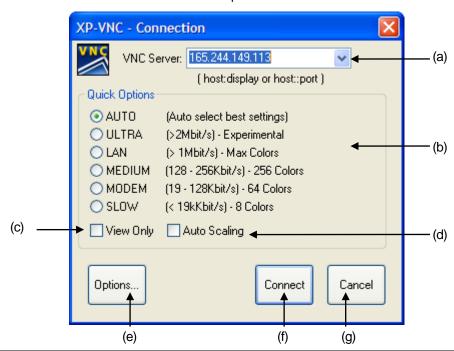


13.2.5 Ending XP-VNC Client

It terminates connection of XP-VNC Client. For details on terminating XP-VNC Client, refer to [Tool Box] of [12.4 XP-VNC Client Tool Box].

13.3 XP-VNC Client Screen Composition

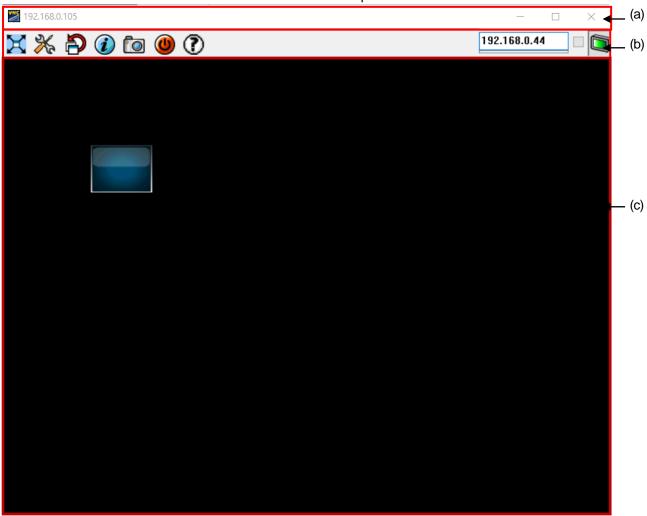
The execution screen of XP-VNC Client has the below composition.



Item	Description	
	Input the IP address of XGT Panel to be connected. (VNC Server should be operated at the XGT Panel to be connected) The Server IP list of XGT Panel recently connected is displayed at the combo box and you can select the one from them.	
VNC Server(a)	XP-VNC - Connection VNC Server: 165.244.149.116 165.244.149.116 165.244.149.113 ○ AUTO (Auto select best settings) ○ ULTRA (>2Mbit/s) - Experimental	
Quick options (b)	Set communication speed with VNC Server of XGT Panel and color type to be displayed. In the case of automatic setting, the color is automatically changed and displayed depending on transmission speed.	
View Only(c)	Set whether the function to display screen only (Cannot input) is applied or not. User's input details is not transferred to XGT Panel but just XGT Panel screen is displayed	
Auto Scaling (d)	In case that Automatic Size Adjustment is set, the size of VNC Client will be automatically set to fit the size of PC monitor connected to XGT Panel. On the other hand, in case that Automatic Size Adjustment is not set, XP-VNC Client is displayed as the size of XGT Panel.	
Options (e)	You can set the connection between XP-VNC Client and VNC Server. For more details, refer to connection options of 12.4 Tool Box.	

Connect (f)	Press the button to connect VNC server and VNC Client.
Cancel (g)	You can cancel the execution of VNC Client.

The screen of connection between XP-VNC and XGT Panel is composed of below.



[Description on a dialog box]

Item	Description
Title(a)	It displays the IP of connected XGT Panel.
Tool Box(b)	It offers the tools to execute the functions provided by XP-VNC.
Screen (c)	It displays the screen of connected XGT Panel as it is.

13.4 The Composition of XP-VNC Client Tool Box

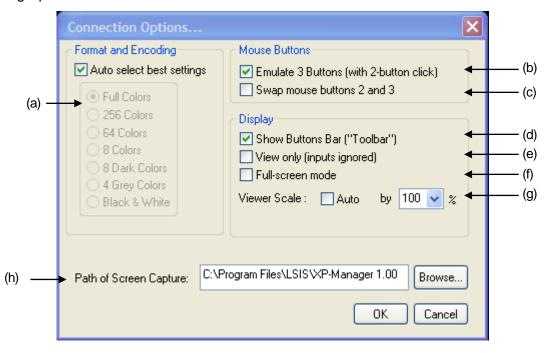
The frequently used functions of XP-VNC are provided as shortcut icons. [Tool Box] will be shown as below and refer to the following each function.



(1) Full-Screen Transition

,			
Item Description		Description	
	Full-Screen Transition	If Full-Screen Transition is not established, it is displayed as the size of	
	Cult-Screen Harismon	XGT Panel at the whole screen of PC monitor.	

(2) Connecting Options



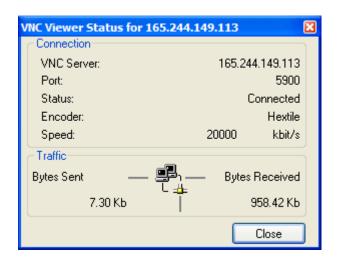
Item	Descr	ription	
	You can set the screen color to be displayed at XP-VNC.		
	In the case of Automatic Setting, the color is automatically changed depending on PC's		
	communication speed as below.		
	Speed	Color	
Format and Encoding (a)	1Mbit/s	Full Colors	
	125 ~ 256 Kbit/s	256 Colors	
	128 ~ 19 Kbit/s	64 Colors	
	5 ~ 19 Kbit/s	8 Colors	
	Less than above	Black & White	

Item Description		
	You can set whether a 3-button mouse will be used or not.	
Using 3 Button (b)	If the mouse connected to PC has three buttons, the option is set and you can	
	use light, middle, right buttons.	
Swap 2 nd button and 3 nd	and 3 rd If you use 3-button mouse, set whether the operation of middle button and right	
button (c)	button will be exchanged or not.	
	Set whether the tool box will be shown or not.	
	If you undo [Showing Tool Box], the tool box is not shown at XP-VNC Client.	
	GRAPH	
Show Buttons Bar (d)	TB50-0.6SH O TB50-0.0SH TB50-0.0SH	
View Only (Cannot Input)(e)	Set whether the function to transfer user's operation to XGT Panel at XP-VNC Client will be applied or not. If Displaying Screen Only is applied, any functions of XP-VNC Client is not transferred to XGT Panel but just XGT Panel screen will be displayed. If you undo Displaying Screen Only, the operations of XP-VNC Client are transferred to XGT Panel. For example, if you press screen transition switch at XP-VNC Client, it is moved to the screen.	
Full Screen (f)	It is displayed at the full screen of a user's PC. In the case, the size of a screen will be equivalent to the size of XGT Panel. (Refer to the figure of 12.3 The Composition of Screen).	
Viewer scale (g)	You can adjust the size of a screen.(Refer to the figure of 12.3 The Composition of Screen) For example, if the size of XGT Panel is 320 * 240 and the size of a screen is 100%, the size of screen will be displayed as 320 *240.	
Path of Screen Capture (h)	You can set the position to capture the current screen of XP-VNC Client (Refer to the figure of 12.3 The Composition of Screen). A user can set the upper position where the captured file will be saved and Year/Month/Day folder is created at the established position with the image whose file name is Hour/Minute/Second. bmp. For the method to capture the screen, refer to (5) Screen Capture of 12.4 The Composition of Tool Box.	
Refresh		

(3) Refresh

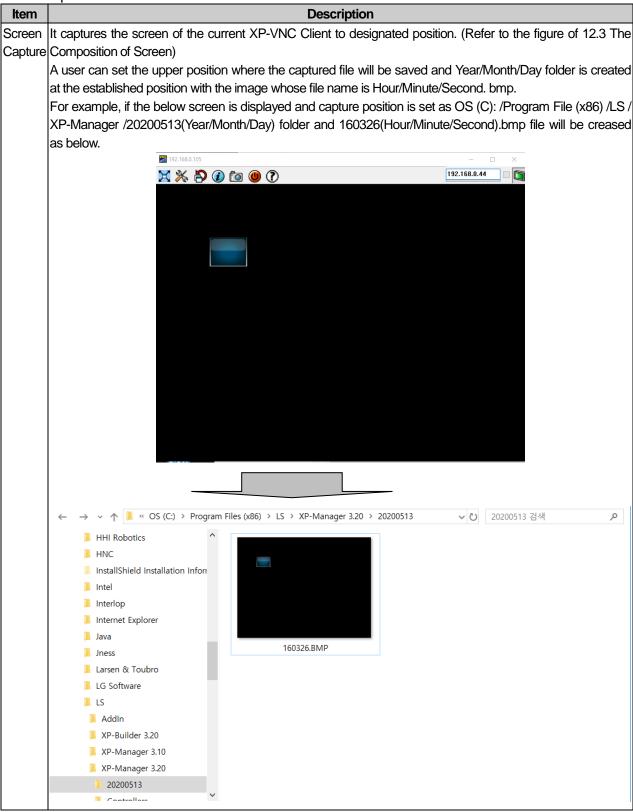
Item	Description
	It newly displays the screen of XP-VNC Client.
	If the data value is changed or the screen is converted, the event of XGT
	Panel may not be transferred and displayed to XP-VNC Client in real time.
Refresh	Namely, XP-VNC screen may not be updated immediately due to various
	factors such as PC transmission speed and XGT Panel's operation speed. In
	this case, through Refresh mode, you can communicate with XGT Panel and
	update XP-VNC screen with the XGT Panel screen.

(4) Connecting Information



Item	Description
VNC Server	It displays the IP address or name of the VNC Server that is connected
VINC Server	currently.
Port	It displays the port No. connected to VNC Server.
	It displays the status of VNC Server.
Status	For example, if it is connected to the server, [Under Connection] and if
	password is set, [Checking password] will be displayed.
Encoder	It indicates the status of screen encryption to transmit the screen. XP-VNC
Encodei	Client and Server adopts only Raw type for encoder.
	It indicates the communication speed between VNC Server and XP-VNC
Speed	Client. If encryption is automatically set at connection option, the color will be
	changed depending on the above speed.
Traffic	It indicates the communication amounts transmitted by sever and the
Trailic	communication amount that XP-VNC Client receives.

(5) Screen Capture



(6) Screen End

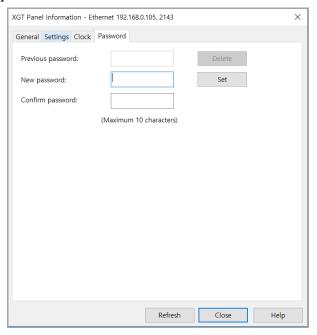
Item	Description			
Connection	It terminates execution of the current XP-VNC Client. Other method to terminate conduction that is on the upper right of XP-VNC Client.	nectio	n is p	ress X
End	192.168.0.105	-		×

(7) IP Input Screen

Item	Description	
IP Input Screen	When XP-VNC Client is in progress, if you try to connect other XGT Panel, input the IP address of the server to be connected at IP Input Screen of the Client and press the left button of the screen. Then, new XP-VNC Client will be created and display the related XGT Panel. 165.186.246.163 Namely, if you connect other XGT Panel through IP Input screen at executing XP-VNC Client, the current XP-VNC Client will not be terminated but the existing connected XGT Panel will be continuously displayed.	

Notice

(1) If the password is set for connected XGT Panel, when XP-VNC Client is executed, the password will be requested with verification process. You can establish the password at [Communication]-[XGT Panel Information]-[Password] of XP-Builder.



If XP-VNC Client is connected when the password is set for XGT Panel as above, password will be requested with verification process as below. Although the allowable password for XP-Builder is 10 digits, XP-VNC tries to connect to server when the password coincides with the 8th digits. If password verification is failed, XP-VNC Client will be terminated.

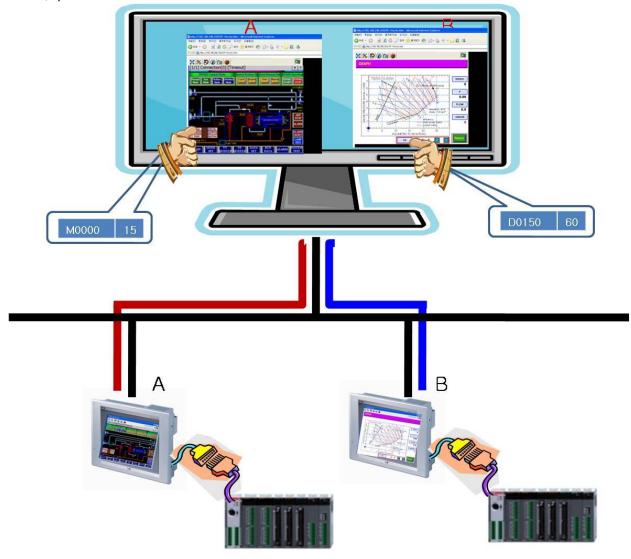


(2) XP-VNC Client can be connected to one VNC Server. If VNC Server is connected to either one XP-VNC Client or communication, other XP-VNC Client is the same VNC Server, the alarm message [Connection to Server failed] will be shown.



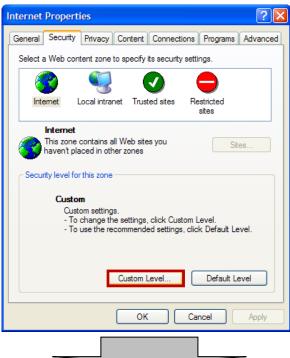
13.5 Monitoring XGT Panel Screen at web

XP-VNC ActiveX is the tool to check and control the data operated at XGT Panel and its status through web browser. Namely, it does not directly monitor, operate the controller such as PLC at XGT Panel but monitors, operates the controller by connecting XGT Panel at web browser of PC. XP-VNC ActiveX can connect to several XGT Panels with one PC like XP-VNC Client and you can monitor, operate each XGT Panels.

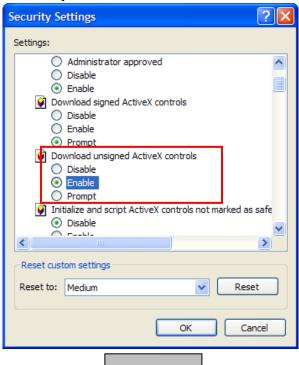


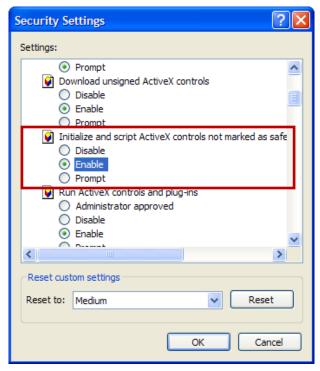
13.6 Starting

XP-VNC ActiveX is the application operated at web browser and you can download ActiveX from web browser. To download ActiveX provided by XP-VNC, [Security] should be established at web browser as below. Select [Control panel]-[Internet Options]-[Security]-[Custom Level] at web browser.



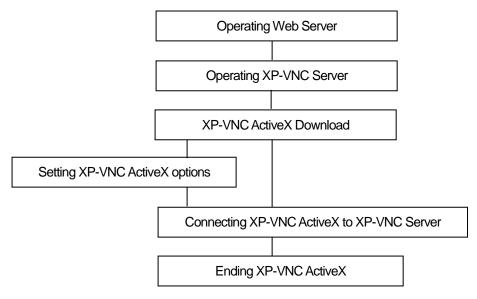
Enable the [Download unsigned Active X controls].





Enable [Initialize and script Active X controls not marked as safe.

Operation processes for XP-VNC ActiveX are as below. To execute XP-VNC ActiveX, both web server and VNC Server should be operated at the same time.



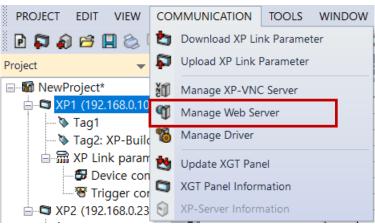
To monitor the XGT Panel screen at web browser; first, operate the web server downloaded at the target XGT Panel. Second, operate XP-VNC server downloaded at the XGT Panel as XP-VNC Client. The above two processes are the preconditions to monitor XGT Panel screen at web browser.

Third, download XP-VNC ActiveX that is the application to display XGT Panel screen at web browser to the XGT Panel. A user can set the options of XP-VNC Client (resolution, screen capture position, etc.) depending on the circumstances. After the above processes are completed, connect VNC server of the related XGT Panel at web browser. After monitoring XGT Panel screen is completed, terminate web browser. For more details and process, refer to the below.

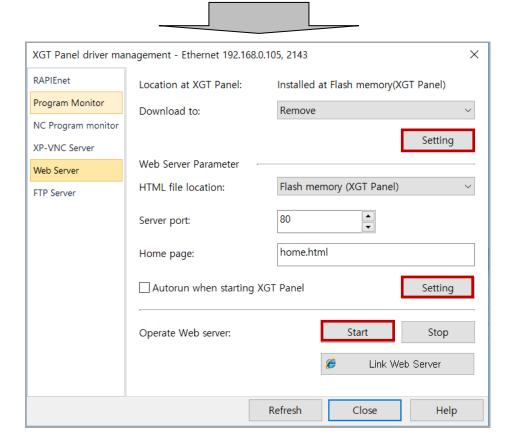
13.6.1 Operating Web Server

To operate XP-VNC ActiveX, make sure to run web server. There are two methods to operate XP-VNC web server as below.

- 1) Operate web server through [XP-Manager]-[Communication]-[Manage Web Server]. For more details on XP-VNC Web Server, refer to [10.4 Web Server Management].
- 2) After selecting the node registered at XP-Manager, click the right mouse button and operate it through [Web Server Management].



After executing as the above, make sure to press [Set] and [Start] as below.



13.6.2 Operating XP-VNC Server

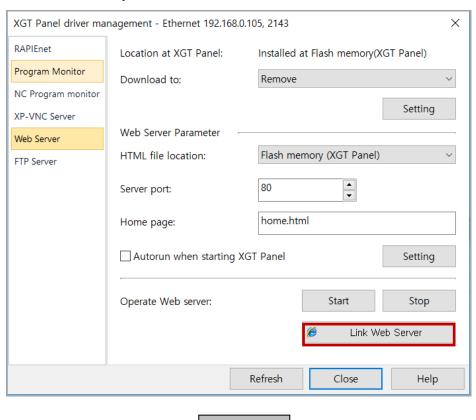
To operate XP-VNC ActiveX, for the details on XP-VNC Server, make sure to refer to [10.3 XP-VNC Server Management] and [12.2.2 Operating XP-VNC Server] as XP-VNC Client.

13.6.3 Setting the options of XP-VNC ActiveX

A user can set the options (resolution, screen capture position, etc.) of XP-VNC ActiveX before connecting XP-VNC ActiveX and XP-VNC of the target XGT Panel. For more details on setting the options of XP-VNC ActiveX, refer to [Connecting Option] of [12.4 XP-VNC Client Tool Box Composition].

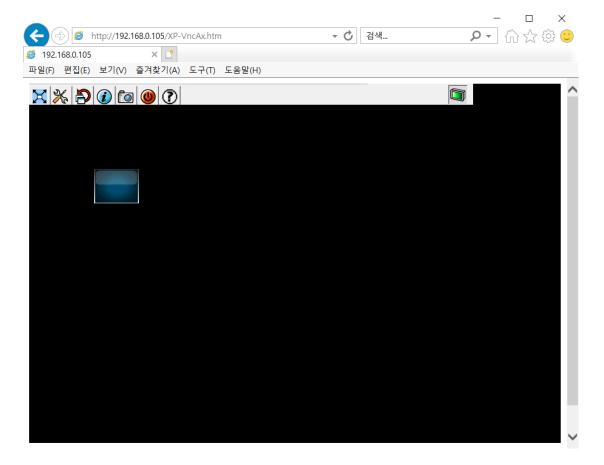
13.6.4 Downloading ActiveX Application and Connecting to Web Server, XP-VNC Server

For the method to connect XP-VNC ActiveX to server with downloading it, refer to the below. After selecting the node to connected at XP-Manager, apply [Communication]-[Web Server Management] and press [Web Server Connection], web browser will be executed automatically with the below screen.



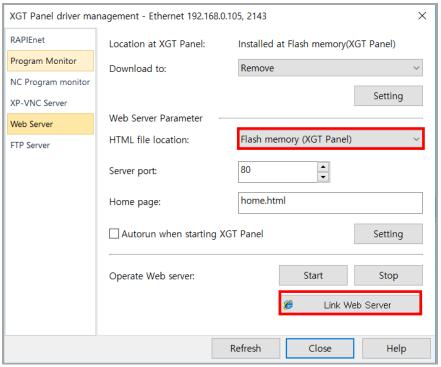


If you select [If you want to monitor XGT Panel, Click here] at the above web browser, it will be connected to the related XGT Panel.

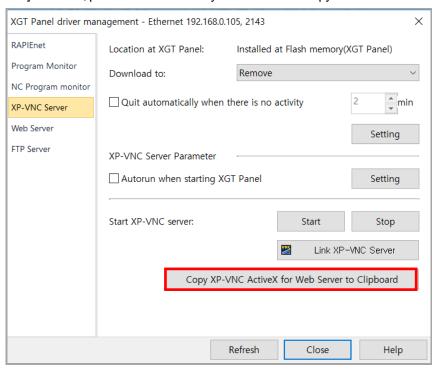


Notice

(1) If you download ActiveX through [Communication]-[Manage Web Server], ActiveX cab file is automatically downloaded to XGT Panel. Download route is the same as Flash memory where web server is located.



(2) If you try to execute web browser by downloading ActiveX .cab file and .html file to USB Memory or CF Card, refer to the below. Select [Communication]-[Manage XP-VNC Server]-[Copy XP-VNC ActiveX for web server to clipboard]. After that, paste it to USB Memory or CF Card and copy cab file and .html file.



After copying the file to USB Memory or SD Card or CF Card with the above method, connect the Memory Card to XGT Panel and input the IP to be connected at web browser, the below screen will be shown. Select [If you want to see backup files, Click here] at the below screen and move to the route where the position is located.

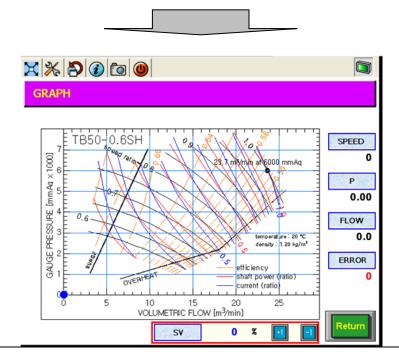


1. Monitoring XGT Panel

2. Inquiring file lists in Storage



If you select XP-VncAx.htm from the above screen, the XGT Panel screen connected to memory card will be displayed at web browser.

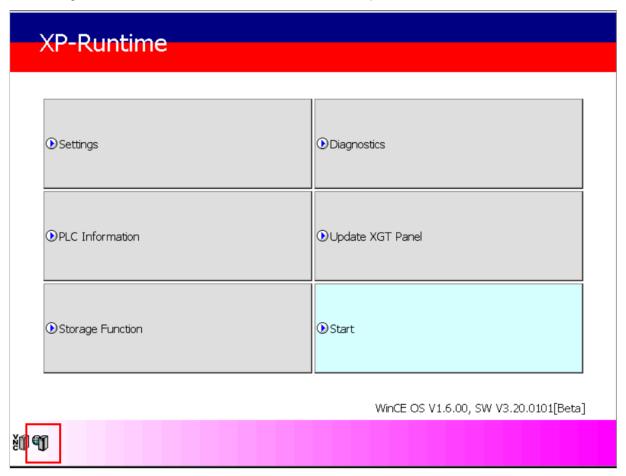


Chapter 14 Web Server

14.1 Installation and Operation of Web Server

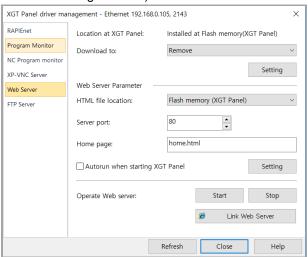
Describes the function of XGT Panel Web Server

If you download the Web Server module in the Web Server management dialog box of the XP-Manager, the image like figure below will be displayed. (For more detail on how to download, refer to XP-Manager manual). The icon below means Web Server has been installed and is ready to operate. Click the Start button in the Web Server management dialog box you used when installing, then Web Server starts. Though the XGT Panel is "Start Menu" status, Web Server can operate.



14.2 Viewing Web Page

Go out the screen by pressing [OK] button. Web Server displays the web page located in the specific path; you can see that through web browser. And it can set which page to display when inputting IP of the device at address window of web browser. At this time, you can set the path of web page and the home page (the web page that is displayed first when inputting IP) in the XP-Manager web server management dialog box. (For detail, refer to XP-Manager manual)



While home.html is set as home page, when the device gets the request for web page from web browser, if there is no "home.html", the web server creates the following page.

Automatically created web page is as follows.



If you want to use other start page, write web page with name of home.html at the specified web page path

14.3 Viewing Backup File saved in the Device

You can view the backup file saved in the device or download them to your PC through web server. If you click the "Inquiring file lists in Storage" of homepage basically provided by the XGT Panel, you can view the list of the backup file as follows.

On the top of the page, entire paths you are viewing are displayed. If you click each path, the list of the directory and file on the corresponding path will be displayed. And if you click the file among directory, file list on the bottom, you can download the file. If you want to link this page to user-made page, set to move to "/xp-runtime/backup/" link.



14.4 VNC Function

You can view the current screen of the XGT Panel and manipulate the screen at the web browser. Click the "Monitoring XGT Panel" of homepage basically provided by the XGT Panel, then you can see the screen of the current device at the web browser. In this screen, if you manipulate the screen, same action will occur in the actual XGT Panel. This function is realized by the standard VNC (Virtual Network Computing) technology. (For more detail, refer to XP-Manager manual). If you want to link this page to user-made page, set to move to "/XP-VncAx.htm" link.

14.5 Reading/Writing at Web Server

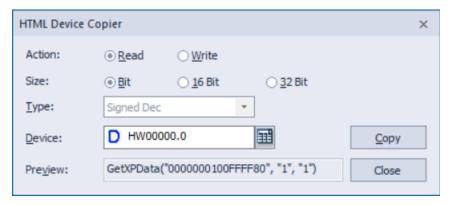
XGT Panel web server provides the function for the user to read/write the device value of the controller such as PLC connected to XGT Panel at the web page. Writing specification of web page is as follows.

14.5.1. Writing Example

```
<html>
<head>
<title>Test Page</title>
k rel="stylesheet" href="/style/normal_ws.css" type="text/css">
<% language=javascript %>
                                   (1)
</head>
<body>
HW00's Current Value: <% GetXPData("00000001 00FFFF81", "3", "4"); %>
<h3><font color=Olive>Usecase 2. Write value to XGTPanel.</font></h3>
<form action=/xp-runtime/SetXPData method=GET>
               00WH <q>
                    <input type=hidden name=device value="00000001 00FFFF81">
                    <input type=hidden name=devSize value="3">
                    <input type=hidden name=devType value="4">
                                                                                               3
                    <input type=text name=value size=50 value="">
                    <input type=submit name=ok value="Input">
</form>
<br><br><br><br>>
<h3><font color=Olive>Usecase 3. Write value to XGTPanel with Setting dynamically.</font></h3>
device : <input type=text id=devicel value=""> 
               : <input type=text id=devSize1 value=""> 
devSize
devType : <input type=text id=devType1 value=""> 
                                                                                              (4)-1
           : <input type=text id=value1 value=""> 
redirect : <input type=text id=redirect1 value="Device.asp"> 
<input type=button id=btn value="Input" onclick=SetData()>
</body>
</html>
<script type="text/javascript">
function SetData()
               var device = document.all.device1.value;
                                                                                              (4)-2
               var devSize = document.all.devSize1.value;
               var devType = document.all.devType1.value;
               var value = document.all.value1.value;
               var redir = document.all.redirect1.value;
               document.URL="/xp-runtime/SetXPData?device="+device+"&devSize="+devSize+
                                             "&devType="+devType+"&value="+value+"&redirect="+redir
</script>
```

14.5.2. Displaying the Device value at the Web Page

You can display the device value of the controller connected to the current XGT Panel at the web page. As shown in 2, write like <% GetXPData("0000000A 00FFFF01", "3", "4")% >. You can fine this type by using HTML device copier on the tool menu of the XP-Builder.



In the device copier, if you specify the device address, size and format, it displays statement to insert at HTML tag with 16-digit device code. The user has to copy that statement into HTML tag. When this statement is called, web server transmits the current value of the device of the corresponding statement to web browser.

The first transfer factor of the GetXPData statement means device address, and the second means device size, the third means the format of the device value. The description is as follows.

1) Device address

If you input the device address at the device value converter of the XP-Builder, it returns character string consisting of 16 characters. This value is used as first transfer factor.

2) Device size

Bit : "1" 16bit : "2" : "3" 32bit

3) Format of device value (for real number, applied when device size is 32 bit)

Signed decimal : "1" Unsigned decimal: "2" **BCD** : "3" : "4" Real Octal : "5" Hex : "6" **Binary** : "7"

14.5.3. Writing device value from web page

Through the web page, you can write the value into the specific device of the controller connected to XGT Panel.

How to input the value while the device address, format and so on are fixed is as follows. As shown at ③, it is available by designating "Action" as "xp-runtime/SetXPData" at <form> tag

1) Transfer factor when writing the device value

Five transfer factors are needed for SetXPData CALL statement. Device address, size, format, the value to write are needed and you can specify the page to move after writing. For this, you have to write 5 <input> tags.

Device address

Set "type" property as "hidden", "name" property as "device", and allocate actual device address at "value" property. Device address can be found as the above description 13.5.2-1)

Device size

Set "type" property as "hidden", "name" property as "devSize" and allocate the value that specifies device size at "value" property.

This value can be found as the above description 13.5.2-2)

Device value format

Set "type" property as "hidden", "name" property as "devType" and allocate the value that specifies device format at "value" property.

This value can be found as the above description 13.5.2-3)

• Device value transfer factor

Since this value will be got from the web page, set "type" property as "text", "name" property as "value", and "size" property randomly. Since "value" property will be got from the user, allocate initial value or make empty.

• Web page URL to move after input

If you specify this path, web page showing error message or success message. If you specify this path, it moves corresponding path after input. This value has to be inputted with relative path.

2) Action Call

Since it has to call "SetXPData action", allocate "type" property as "submit", "name" as "ok" and set "value" randomly. When inputting device address, size, format, value and URL directly, method ⑤-1, ⑥-2 can be used.

3) Error process

When communication fails because of transfer factor or communication problem, it is expressed as ""Error #3 occurred" instead of character string. The following error code can be displayed.

Error # -1 : NAK

Error #1: Communication time out

Error #11: Arguments for SetXPData are not valid.

Error # 11: Invalid data

Error # 12: Less than the minimum.

Error # 13: Greater than the maximum.

Error # 14: Exceed the allowed number of digits.

4) How to use

A. Input at web page

You can make the value be inputted at web page like Numeric Input of XP builder. At this time, you have to set device address, size and format in advance as you have to set for Numeric Input of XP builder. For this, write as example ③. HTML code of this part is displayed as follows at the actual web page.



If you input the value at the input field and click "Input" button, the value is inputted at HW00 and the value is hex decimal. (If you input "A", decimal number 10 will be saved.)

B. Input the value at web page with designating device address, size and format

When inputting the value at web page, you can specify the device address, size, format and web page to be shown after input. For this, write as example 4-1, 4-2. HTML code of 4-1 part is displayed as follows at the actual web page.

If you click "Input" button at the page below, all the inputted value will be collected and it transmits the SetXPData Call statement to web server by 4-2 code.

Usecase 3. Write value to XGTPanel with Setting dynamically.
device : 00000001 00FFFF81
devSize: 3
devType: 4
value : A
redirect : Device.asp
Input

If you input the value at the each field as the above figure and click "Input" button, the DWORD value will be saved at HW00 and the value will be save as hex decimal. (In case of "A", decimal number 10 will be saved). After input, it goes to Device.asp web page.

Remark

You can input up to 32 digits.

For real number, up to 5 digits below decimal point are available.

When device is "Start Menu" status, reading/writing the device is not available. At this time, Error #1 appears.

14.6 Web Page Security Function

In XP-Webserver, you can set up access limit for web pages in certain path or certain web page.

This allows only registered user to view the certain web page

Detail of web page security function is as follows.

14.6.1. XP-Web Server security policy

- 1) Security level
 - (1) NONE

You can't access

(2) Basic Access Authentication (called BAA below)

(http://en.wikipedia.org/wiki/Basic_access_authentication) it sets security at the path of web by using user account and password. Coding is not used during communication between server and client

(3) Digest Access Authentication (called DAA below)

(http://en.wikipedia.org/wiki/Digest_access_authentication) it sets security at the path of web by using user account and password. It codes user account and password and validates during communication between server and client.

(4) FULL

No limit to access

2) User group management

Can create, delete the group of the user. Can specify access-limited path based on group unit or connection method. The necessary information is as follows when creating.

- (1) Group name
- (2) Security level

Select one among NNE, BAA, DAA, FULL described in above (1)

(3) Protection mode

If you set protection mode, user history will be deleted.

(4) Active or not

It determines whether to activate all users included in the group. After creation, you can change the status of activation.

3) User account management

Can create, delete the user. The necessary information is as follows when creating.

- (1) User ID
- (2) User password
- (3) User group
- (4) Activation status

It determines whether to activate the user

4) Access-limited path management

Can set up access limit on the path of certain web server or web page. And can allow access for the user included in certain group

- (1) URL to limit access (relative path)
- (2) Security level used at access

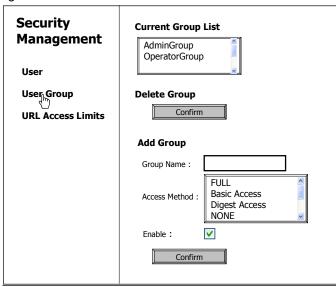
- (3) Whether to code web page or not
- (4) User group to allow access not specifying the user group is available. When it's not specified, only security level and coding status are applied.

14.6.2. XP-Web Server Security Management Procedure

1) Viewing security management screen



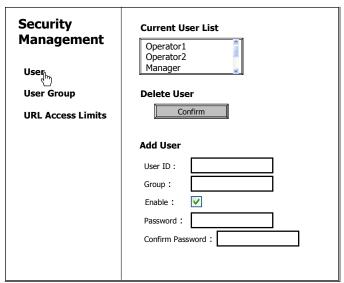
2) User group management screen



Since user account has to belong to certain user group, create the group first. When creating, specify the group name and group's basic security level. This security level is used later when setting the access-limited path. When you want to limit access for specific user group, set "disable" for corresponding user group.

When you want to delete certain user group, click "Delete Group" button after selecting group name in "Current Group List".

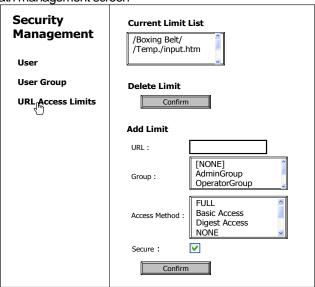
3) User management screen



You can create the user account after creating user group. Input password after selecting user account and user group. If you click "OK" button of "Add User", account will be created.

When you want to limit access for specific user, set "disable" for corresponding user. When you want to delete certain user account, click "Delete User" button after selecting user account in "Current User List".

4) Access-limited path management screen



It sets up the access limit about certain path or web page. When setting up the access limit about certain path, the limit for entire web page belonging to corresponding path will be set up. But, if there is web page whose access limit is set up individually in corresponding path, setup will be applied to that web page.

When setting access limit, you can set up security level and specify the user group selectively. When specifying user group, it is set up as security level of corresponding user group and the user who belongs to corresponding user group can access. Procedure is as follows according to security level.

If security level is "NONE", error message "Can't find page" will be displayed. Namely, can't view page.

- If security level is "FULL", can always inquire the page.
- ✓ When security level is "BAA" or "DAA", if current user is "Log-in" state, inquiry is available and otherwise Log-in is needed. When setting security level, if you don't select certain user group, that is applied to all users regardless of group.

Remark

A. User ID and Adding/creating group

User has to belong to certain user group. When "user1", "user2" belongs to "GroupA", if you want to delete GroupA, before deletion, you have to delete "user1" and "user2" user ID.

When setting up access limit, in case of specifying accessible user group, if you want to delete user group, before deletion, you have to delete setup of access limit.

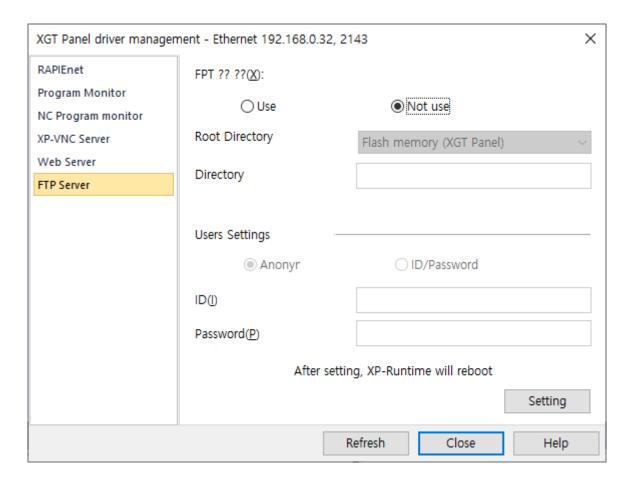
B. Keeping user confirmation state

When user confirmation is successful at web browser, confirmation state is kept until the web browser closes After user confirmation is successful, current user can't access the web page allowed to other user. 403 error

After user confirmation is successful, if you close web browser and open it again, user confirmation is needed again.

14.7 FTP Server

Set FTP Server of XGT Panel



Use / Not use

Set Use if User want to use FTP Server.

• Root Directory: Set Top Directory to share to FTP client.

Directory: Directory below Top Directory.

User Settings: Set User allowed to connect FTP server

Anonymouse: All user can connect FTP server.

ID/Password: Set account allowed to cnnect FTP server.

• Only iXP2 Support FTP server function.

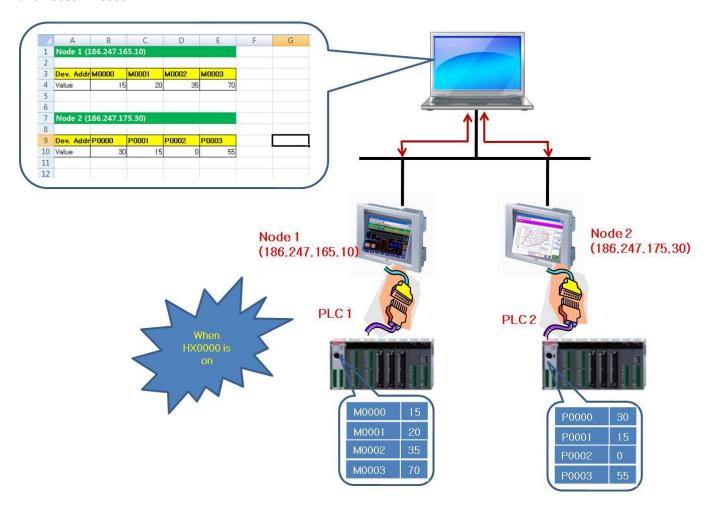
Chapter15 Excel Work

15.1 Device Communication

15.1.1 Introduction

Connected PLC values can be displayed at a particular area of Excel's particular sheet or values of a particular area of Excel's particular sheet can be written on PLC addresses.

Example) If any Trigger (HX0000 Device is On) is prompted, it displays the values of PLC address M0000 ~ M0003 and P0000 ~ P0003 connected to Node 1 and Node 2 respectively at an excel file or writes Excel values at PLC address M0000 ~ M0003 and P0000 ~ P0003.



1) [Sequence]

- Create an Excel template file. (1)
- (2)Prepare an excel file for device communication in XP-Server.
- (3)Register the server on XP-Manger.
- (4) Add HMI node connected to PLC to be monitored on XP-Manger.
- (5) Set trigger conditions under which the device communication works.
- Select [Various Works using Excel template file] from the work items of XP-Manager's server. (6)
- (7) Set the template file written in (1) as [Template File].
- Set the path on which outcomes will be saved in [Read Output] file. (8)
- (9)Press [Edit Template File] to activate Excel.
- (10)Select Option Function [Device Communication] from the activated Excel file or [Device Communication] with the right button of the mouse.
- Once a dialog box appears, set each attribute of [Device Communication]. (11)

15.1.2 Setting Sequence

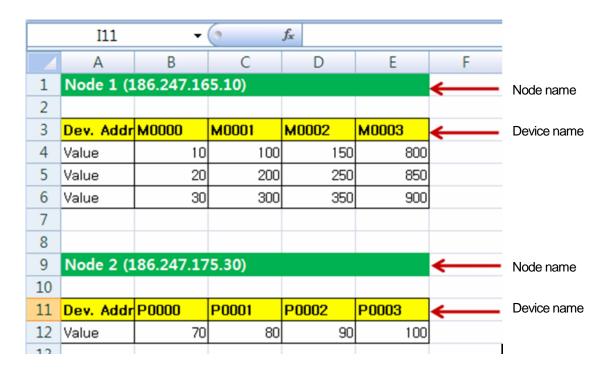
(1) Create an Excel template file.

If Excel is activated as below, save the Excel file after making the Excel template file to display PLC values (e.g., C:\ExcelTemplate.xlsx)

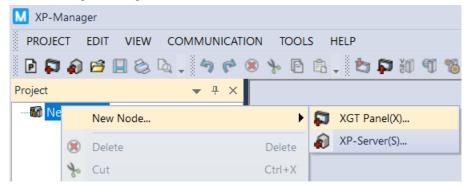


(2) Prepare an excel file for device communication Write in XP-Server.

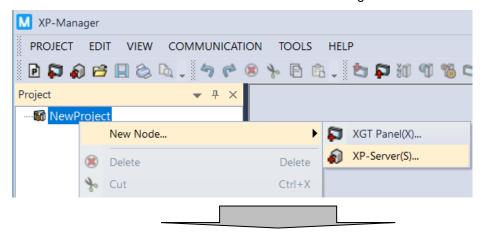
If Excel is activated as below, save the source file of Device Communication to write the value at PLC address. (e.g., C:\DeviceComm.xlsx)



Execute XP-Manger and register the server. (3)

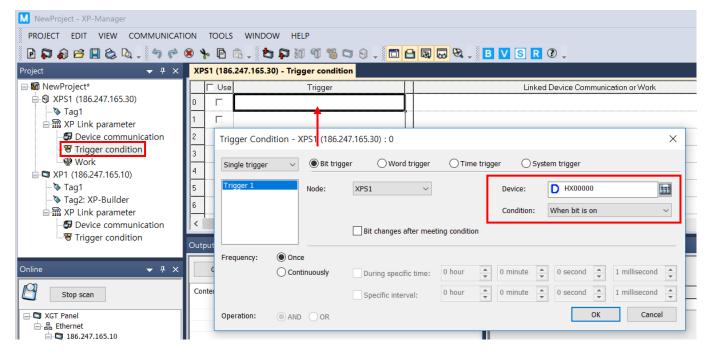


Add XGT Pane node connected to PLC to be monitored on XP-Manger. (4)

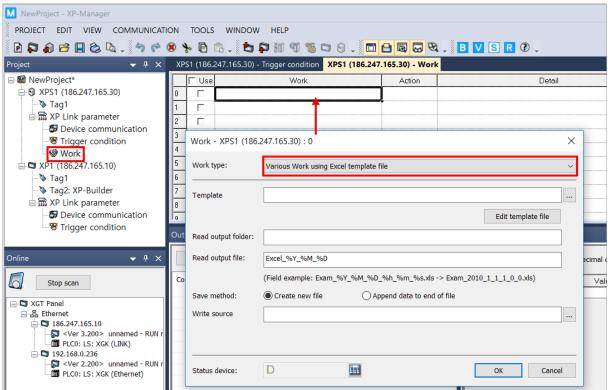


Node	ltem	Setting	
VD Conjor	Node Name	XPS1	
XP-Server	Node IP	165.247.165.30	
	Node Name	XP1	
XGT Panel	PLC Type	XGK Ethernet	
	Node IP	165.247.165.10	

(5) Set trigger conditions under which the device communication works.

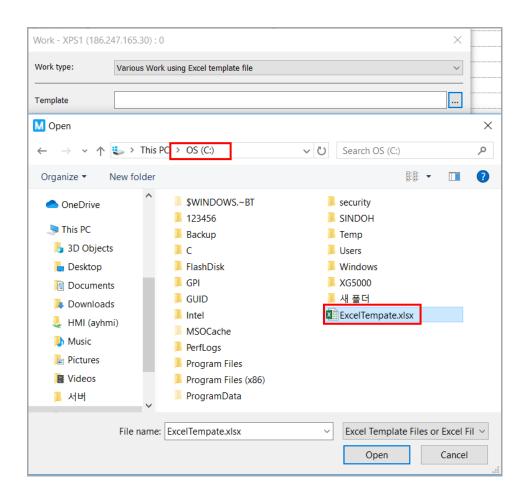


(6) Select [Various Works using Excel template file] from the work items of XP-Manager's server.

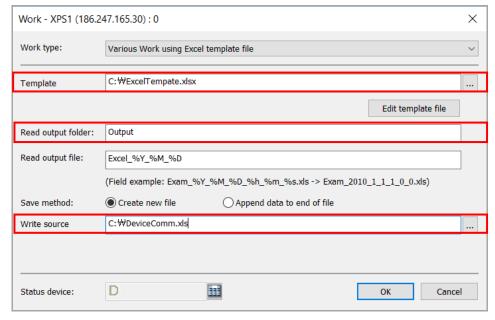


(7) Set the template file written in (1) as [Template File].

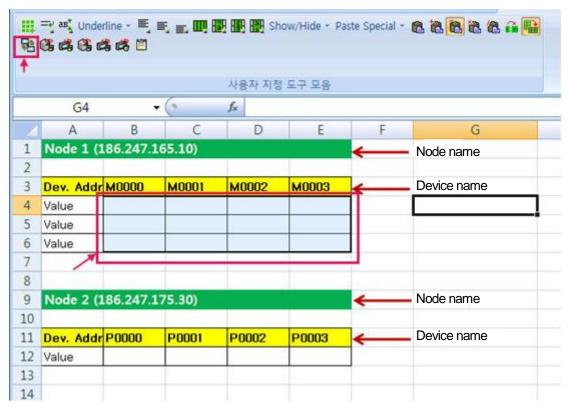
247.165.30) : 0	×
Various Work using Excel template file	V
	*
	Edit template file
Excel_%Y_%M_%D	
(Field example: Exam_%Y_%M_%D_%h_%m_%s.xls -> Exam_201	0_1_1_1_0_0.xls)
Create new file Append data to end of file	
D	OK Cancel
	Excel_%Y_%M_%D (Field example: Exam_%Y_%M_%D_%h_%m_%s.xls -> Exam_201



(8) Set the path on which outcomes will be saved in [Read Output Folder]. Set [Write Source file] to be used for Device Communication.



- (9) Press [Edit template file] to activate Excel
- (10)Select Option Function [Device Communication] from the activated Excel file or [Device Communication] with the right button of the mouse.



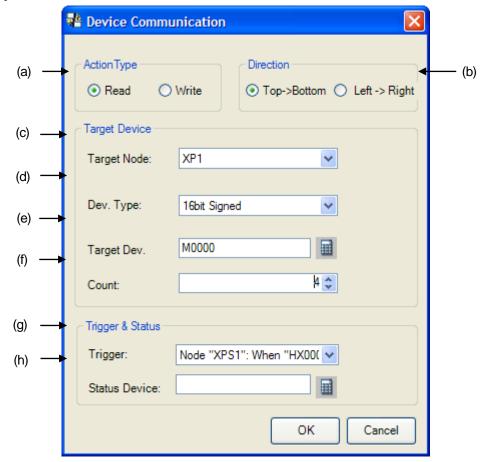
(11) Once a dialog box appears, set each attribute of [Device Communication].

2)

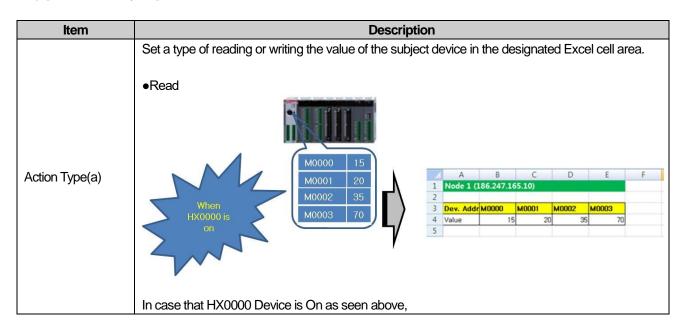
15.1.3 Device Communication Attribute

3)

4) [Window]



5) [Window Description]



Item	Description					
	Setting Item			Setting	Descriptio	n
	Target Node		165.244.	149.10		
	Target Device		M0000			
	Device Type		16bits sig	gned		
	Device Count 4 (4 device starting from the subject device) (Ex: M0000 ~ M0003)					
	Cell Area \$B\$4\$E\$4					
	Display the device values from Description above. • Write When HX0000 is on	000 15 001 20 002 35	1 Nod	A B c 1 (186.247.165, Addr M0000 M	C D	E F
	If it is set in the same way with Source File] in Device M0000 thro					a set in [Write
	Setting Item Setting Description					
	Read or write [Top->Bottom] of Excel's cell area.					
		Dev. Addr	M0000	M0001	M0002	M0003
		Value	① <i>e</i>	7		
		Value		1		
Direction(b)		Value	V >			
Direction(b)	Z	Read or write	e [Left->Rigl	nt] of Excel's	s cell area.	
		Dev. Addr		M0001	M0002	M0003
		Value	0			
		Value	+	2		0 0
		Value	OK TOK	0 × 0 0	9 9	0 0
Target Node(c)	Set a node subject to Device Com	nmunication				
Device Type(d)	Set a type of the device subject to		nunication			
Target Device(e)	Set a device subject to Device Communication.			ll be the l	eading dev	ice of Device
Device Count(f)	Set how many devices to read or	write.				
Trigger(g)	Set a trigger item in which Device Communication will be activated among those set on XP-Manager.					
Status Device(h)	Set a device in which the action communication	n status of De	evice Comr	nunication	will be save	ed after device

Note

- (1) Any Read-Only device cannot be set as a status device.
- (2) In case of [Read] action, any Read-Only device cannot be set as a target device
- (3) If any change in the Target Node, Target Device or Device Type occurs, the device address will be initialized.
- (4) Any data cannot be read nor written beyond the designated Excel area. Therefore, any data will not be read nor written if it is beyond the area.

Setting Item	Setting Description			
Device Count	4 (4 devices starting from the subject device)			
Device Court	(Ex: M0000 ~ M003)			
	\$B\$4\$C\$4			
	A B C			
	1 Node 1 (186.247.165.10)			
Cell Area	2			
	3 Dev. Addr M0000 M0001 N			
	4 Value			
	E U_1			

If only two cell areas are designated after number 4 is inputted for Device Count as above, only the values of M0000 and M0001 corresponding to the set cell area can be written or read. M0002 and M0003, which are beyond the cell areas, will not be activated.

(5) Sheet names of template file in 15.1.2 (8) and Write source excel file have to be same for reading/writing

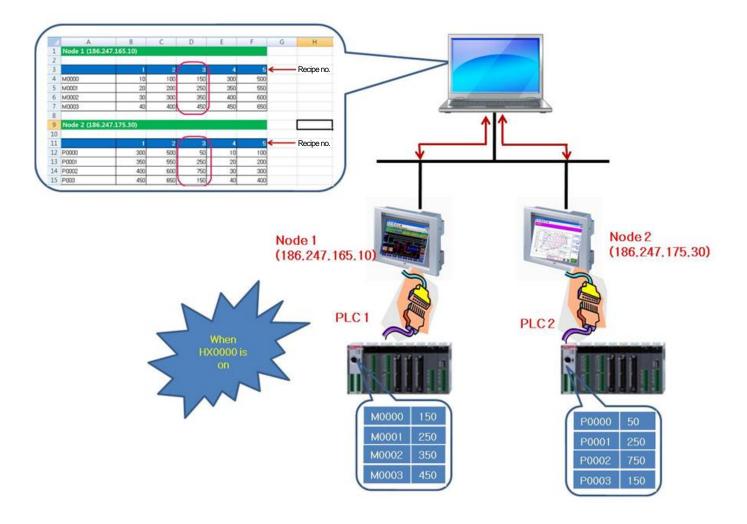
File	Sheet name			
Template file	42 43 44 45 M • M Sheet1 (Sheet2			
Write source file	42 43 44 45 H • N Sheet1 (Sheet2			

15.2 XP-Server Recipe

15.2.1 Introduction

The recipe value of a particular area of a particular sheet in Excel file saved on XP-Server can be written at the connected PLC address or PLC value can be displayed at a particular area of a particular sheet in the relevant Excel file.

Example) If any Trigger (HX0000 Device is On) is prompted, it writes the recipe value of a particular area of a particular sheet in Excel file saved on XP-Server at PLC address M0000 ~ M0003 and P0000 ~ P0003 connected to Node 1 and Node 2 respectively or display the values at PLC address M0000 ~ M0003 and P0000 ~P0003 connected to Node 1 and Node 2 respectively at Excel file.



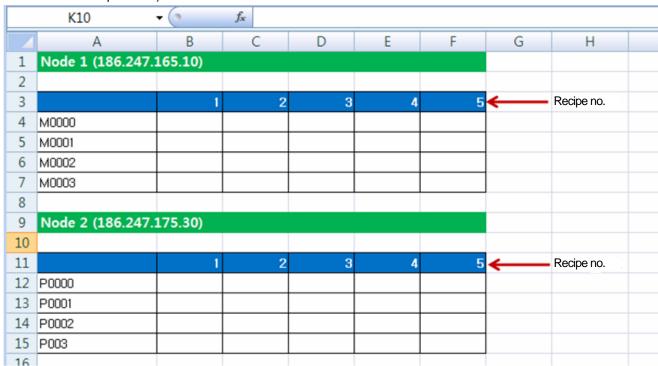
6) [Sequence]

- (1) Create an Excel template file.
- (2)Prepare a recipe Excel file in XP-Server.
- (3)Register the server on XP-Manger.
- (4) Add HMI node connected to PLC to be monitored on XP-Manger.
- Set trigger conditions under which XP-Server Recipe Work is activated. (5)
- Select [Various Works using Excel template file] from the work items of XP-Manager's server. (6)
- (7) Set the template file written in (1) as [Template File].
- Set the path on which outcomes will be saved in [Read Output] file. Set [Write Source File] to be used for (8) writing.
- (9) Press [Edit template file] to activate Excel
- Select Option Function [XP-Server Recipe] from the activated Excel file or [XP-Server Recipe] with the right button of the mouse.
- (11)Once a dialog box appears, set each attribute of [XP-Server Recipe].

15.2.2 Setting Sequence

(1) Create an Excel template file.

If Excel is activated as below, save the Excel file after making the Excel template file to display PLC values. (e.g., C:\ExcelTemplate.xlsx)

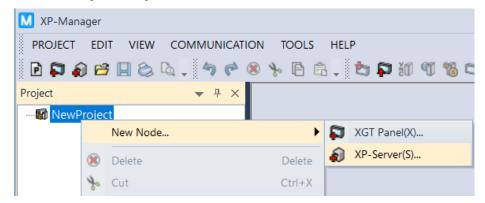


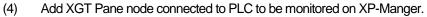
(2) Prepare a recipe Excel file in XP-Server.

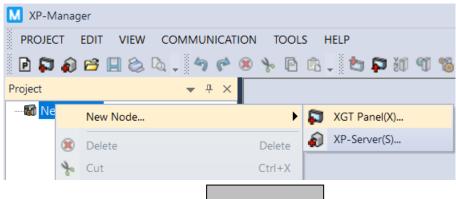
Activate Excel as below and save values in Recipe source file for writing at PLC address (e.g., C:\ServerRecipe.xlsx).

	H16	• (f _x			
	А	В	С	D	E	F
1	Node 1 (186.247.	165.10)				
2						
3		1	2	3	4	5
4	М0000	10	100	150	300	500
5	M0001	20	200	250	350	550
6	M0002	30	300	350	400	600
7	M0003	40	400	450	450	650
8						
9	Node 2 (186.247.:	175.30)				
10						
11		1	2	3	4	5
12	P0000	300	500	50	10	100
13	P0001	350	550	250	20	200
14	P0002	400	600	750	30	300
15	P003	450	650	150	40	400

Execute XP-Manger and register the server. (3)

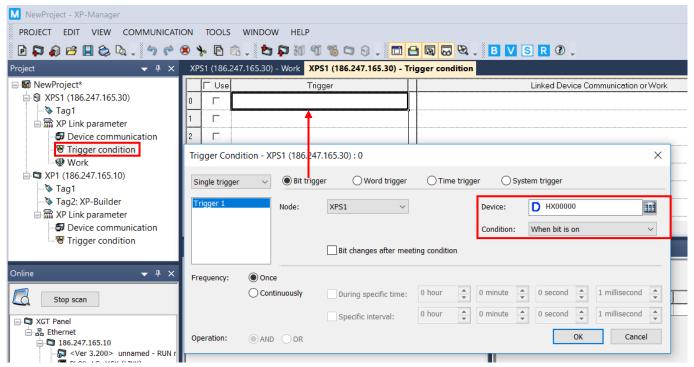




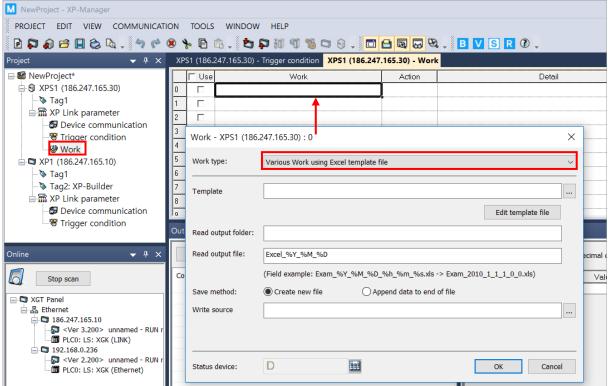


Node Item		Setting		
VD Contor	Node Name	XPS1		
XP-Server	Node IP	165.247.165.30		
	Node Name	XP1		
XGT Panel	PLC Type	XGK Ethernet		
	Node IP	168.247.165.10		

(5) Set trigger conditions under which the device communication works.

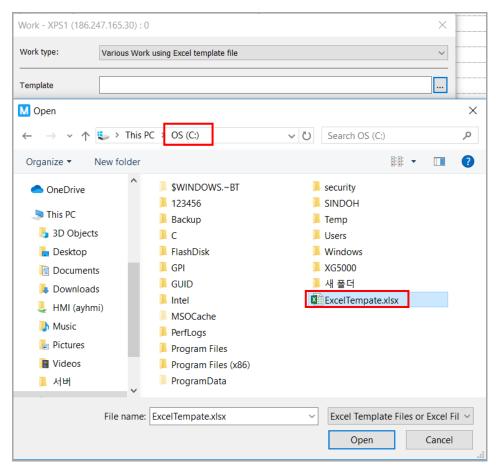


Select [Various Works using Excel template file]f rom the work items of XP-Manager's server. (6)

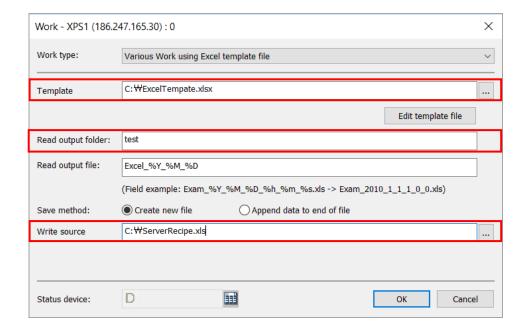


Set the template file written in (1) as [Template File]. (7)

Work - XPS1 (186.	.247.165.30) : 0	×
Work type:	Various Work using Excel template file	~
Template		—
	Edit template fil	e
Read output folder:		
Read output file:	Excel_%Y_%M_%D	
	(Field example: Exam_%Y_%M_%D_%h_%m_%s.xls -> Exam_2010_1_1_1_0_0.xls)	
Save method:	Create new file Append data to end of file	
Write source		
Status device:	ОК С	ancel

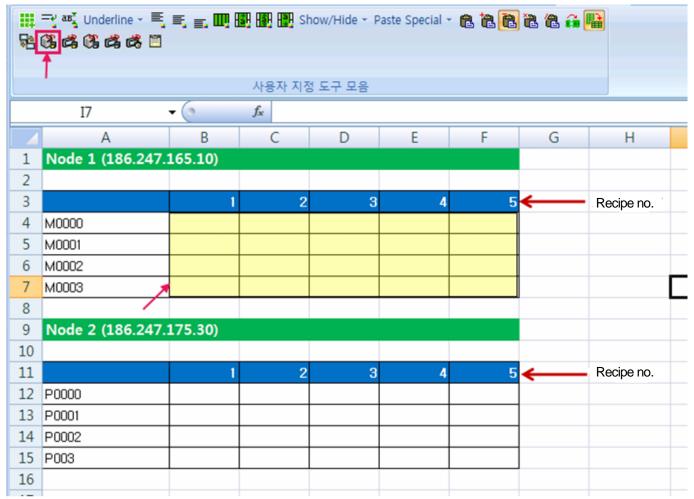


(8) Set the path on which outcomes will be saved in [Read Output Folder]. Set [Write Source File] to be used for writing XP-Server Recipe. For [Write Source File], specify ServerRecipe.xlsx File saved in (2) above. (For details, refer to 15.2.3 XP Server Recipe Attribute [Action Type].).)



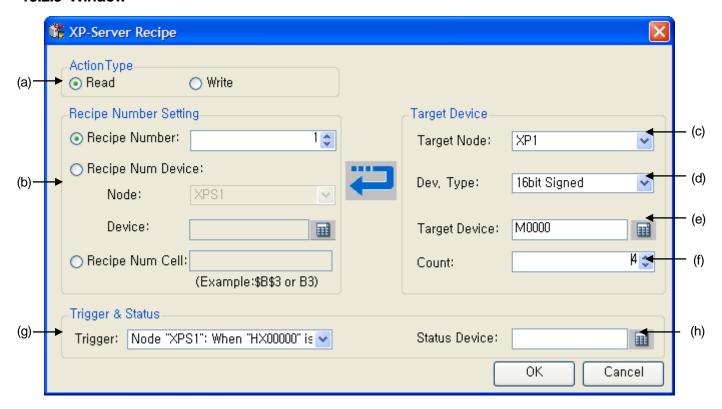
Chap.15 Excel Work

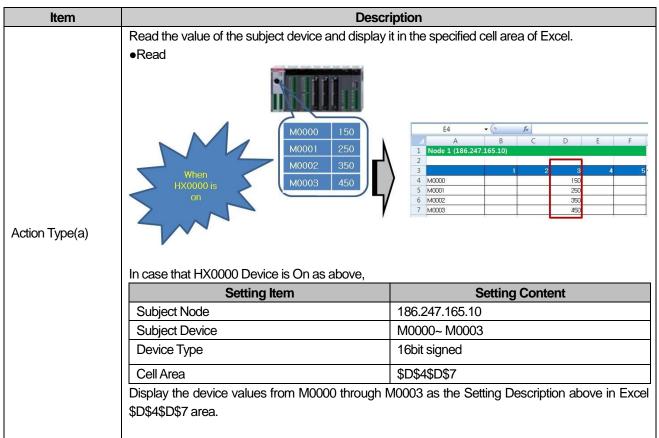
- Press [Edit Template File] to activate Excel. (9)
- Select Option Function [XP-Server Recipe] from the activated Excel file or [XP-Server Recipe] with the right (10)button of the mouse.

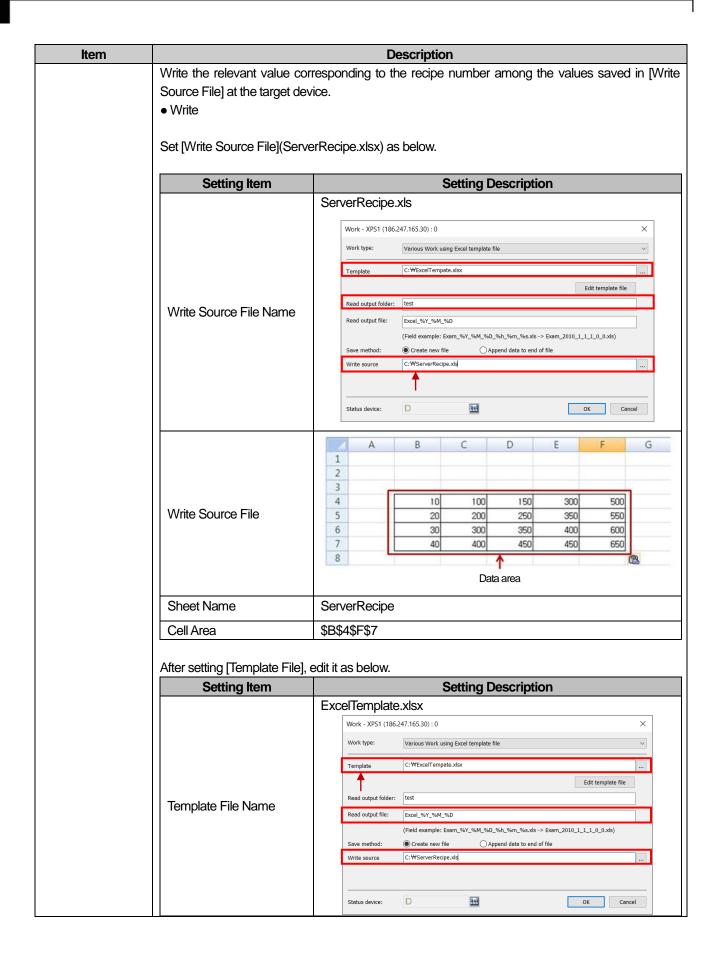


Once a dialog box appears, set each attribute of [XP-Server Recipe].

15.2.3 Window





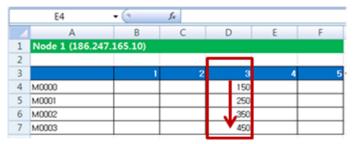


Item	Description						
	Template File	A B C D E F G 1 Node 1 (186.247.165.10) 2 3					
	Sheet Name	ServerRecipe					
	Device Type	16bit signed					
	Subject Node	186.247.168.10					
	Subject Device	M0000~ M0003					
	Recipe No.	3					
	Cell Area	\$B\$4\$F\$7					
	PLC M0000 through M000 But, [Template File] and [V	No.3 from [Write Source File] and writes the values [186.247.165.10] at 03. Write Source File] should have the same sheet name and cell areas, it is e the value corresponding to XP-Server Recipe value in Template File					
	Setting Item	Setting Description					
	Recipe No.	Directly set the recipe number to display. The row number in the set recipe area is the recipe number. 10 11 12 12 13 45 12 12 12 13 14 15 14 15 15 15 16 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19					
Recipe No. Setting (b)	Recipe No. Device	Set the recipe number to display with the value of the relevant node device. Ex) If XPS1's HW0000 is set as the recipe number, the relevant recipe will be displayed in the relevant device value.					
	Recipe No. Cell	Set the recipe number to display with the value of the corresponding cell area. A B C D E F G H 1 Node 1 (186.247.165.10)					

Item	Description		
	If recipe no. cell is set as \$H\$4, the content of NO. 3, the value of \$H\$4 Cell, is displayed in XP-Server Recipe Object area		
	At this time, only the cell areas of the sheet to which XGT Panel Recipe Object belongs are recognized.		
Target Node(c)	Set a subject node in which XP-Server Recipe is written.		
Device Type(d)	Set a type of the device subject to XP-Server Recipe.		
Target Device(e)	Set a device subject to XP-Server Recipe. It will be the leading device of XP-Server Recipe.		
Device Count(f)	Set how many devices to read or write.		
Trigger(g)	Set a trigger item in which XP-Server Recipe will be activated among those set on XP-Manager.		
Status Device(h)	Set a device to save its action status, after executing XP-Server Recipe action		

Note

- (1) Any Read-Only device cannot be set as a status device.
- (2) In case of [Read] action, any Read-Only device cannot be set as a target device
- (3) If any change in the Subject Node, Subject Device or Device Type occurs, the device address will be initialized.
- (4) Recipe numbers are always set in vertical.



- (5) If any non-existing recipe number is specified, no action will be generated.
- (6) Any data beyond the area specified in the template file will not be written.

Setting Item	Setting Description
Device Count	4 (4 devices starting from the subject device)
Device Courit	(Ex: M0000 ~ M0003)
	\$B\$4\$C\$4
	1 2
	M0000
Cell Area	M0001
	M0002
	M0003

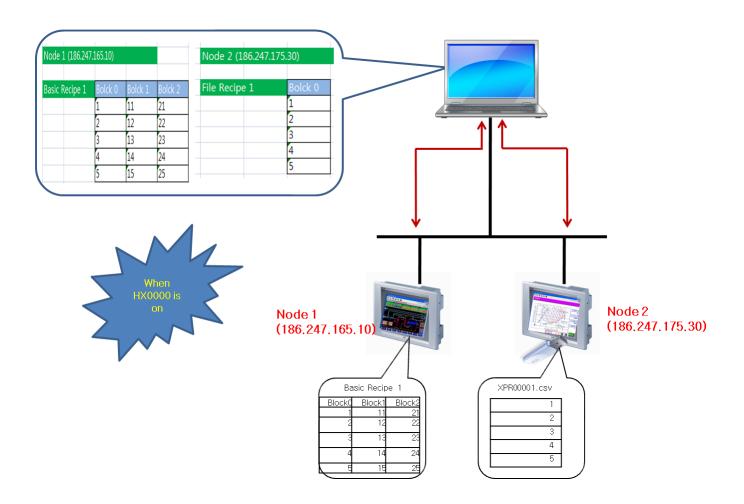
If only two cell areas are designated after number 4 is inputted for Device Count as above, only the values of M0000 and M0001 corresponding to the set cell areas can be written or read. M0002 and M0003, which are beyond the cell areas, will not be activated.

15.3 XGT Panel Recipe

15.3.1 Introduction

The recipe value of a particular area of a particular sheet in Excel file saved on XP-Server is written at the recipe(File, Basic) saved on XP-Panel NVRAM or the recipe(File, Basic) value saved on XP-Panel NVRAM is displayed at a particular area of a particular sheet in the relevant Excel file.

Example) If any Trigger(HX0000 Device is On) is prompted, it writes the recipe value of a particular area of a particular sheet in Excel file saved on XP-Server at the PLC recipe connected to Node 1 and Node 2 respectively. Or it displays the recipes connected to Node 1 and Node 2 respectively at Excel file.



[Sequence]

- (1) Create an Excel template file.
- (2) Prepare a recipe Excel file.
- (3) Register the server on XP-Manger.
- (4) Add HMI node connected to PLC to be monitored on XP-Manger.
- (5) Set trigger conditions under which XGT Panel Recipe Work is activated
- (6) Select [Various Works using Excel Template File] from the work items of XP-Manager's server.
- (7) Set the template file written in (1) as [Template File].
- (8) Set the path on which outcomes will be saved in [Read Output Folder]. Set [Write Source File] to be used for writing XGT Panel Recipe.
- (9) Press [Edit Template File] to activate Excel.
- (10) Select Option Function [XGT Panel Recipe] from the activated Excel file or [XGT Panel Recipe] with the right button of the mouse.
- (11) Once a dialog box appears, set each attribute of [XGT Panel Recipe].

15.3.2 Setting Sequence

(1) Create an Excel template file.

If Excel is activated as below, save the Excel file after making the Excel template file to display XGT Panel Recipe values (e.g., C:\ExcelTemplate.xlsx)

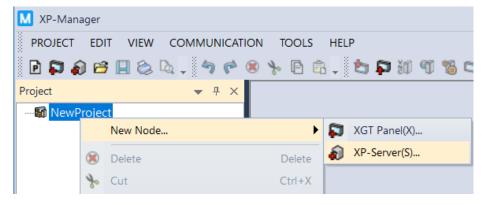
	F16	- (<u> </u>	fsc	
	Α	В	С	D	E
1	Node 1 (18	6.247.165.1	10)		
2					
3	Basic Recip	e 1	Bolck 0	Bolck 1	Bolck 2
4					
5					
6					
7					
8					
9					
10					
11	Node 2 (18	6.247.175.	30)		
12					
13	File Recipe	1	Bolck 0		
14					
15					
16					
17					
18					

(2) Prepare a recipe Excel file.

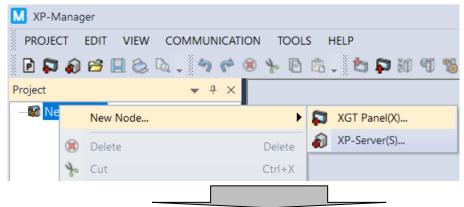
Activate Excel as below and save values in Recipe Source File for writing at XGR Panel recipe (e.g., C:\ServerRecipe.xlsx)

	Α	В	С	D	E
1					
2					
3					
4			1	11	21
5			2	12	22
6			3	13	23 24
7			4	14	24
8			5	15	25
9					
10					
11					
12					
13					
14			1		
15			2		
16			3		
17			4		
18			5		

(3) Execute XP-Manger and register the server.

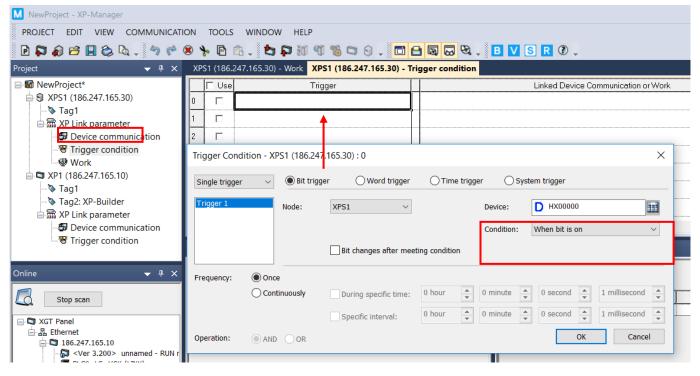


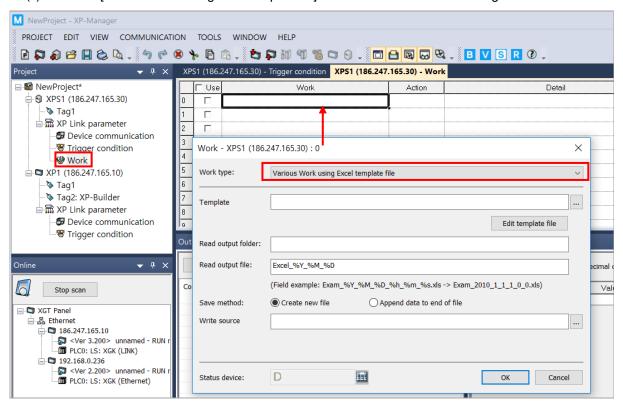
Add XGT Pane node connected to PLC to be monitored on XP-Manger. (4)



Node Item		Set	
VD Contor	Node Name	XPS1	
XP-Server	Node IP	165.247.165.30	
	Node Name	XP1	
XGT Panel	PLC Type	XGK Ethernet	
	Node IP	165.247.165.10	

(5) Set trigger conditions under which the device communication works.

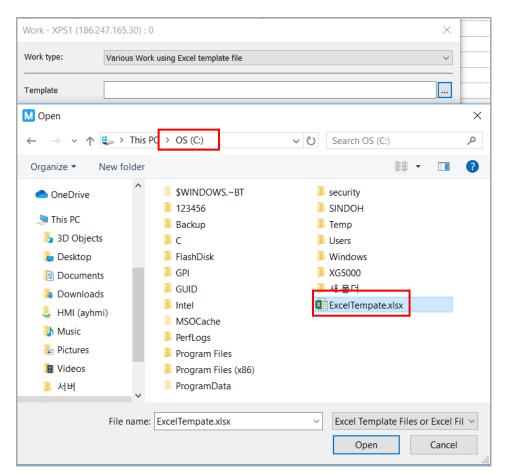




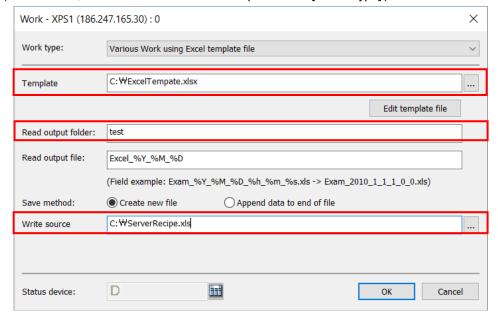
Select [Various Works using Excel template file] from the work items of XP-Manager's server. (6)

Set the template file written in (1) as [Template File]. (7)

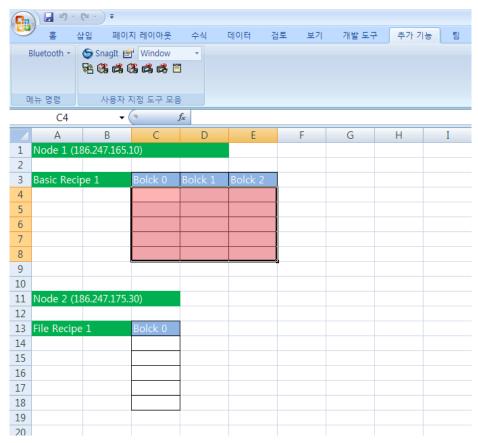
Work type:	Various Work using Excel template file	~
Template		
	Edit template file	
Read output folder:		
Read output file:	Excel_%Y_%M_%D	
	(Field example: Exam_%Y_%M_%D_%h_%m_%s.xls -> Exam_2010_1_1_1_0_0.xls)	_
Save method:	Create new file Append data to end of file	
Write source		
	D BB OK Cand	-1



Set the path on which outcomes will be saved in [Read Output Folder]. Set [Write Original File] to be used for (12)writing XGT Panel Recipe. For [Write Original File], specify ServerRecipe.xlsx File saved in (2) above. (For details, refer to 15.3.3 XGT Panel Recipe Attribute [Action Type].)

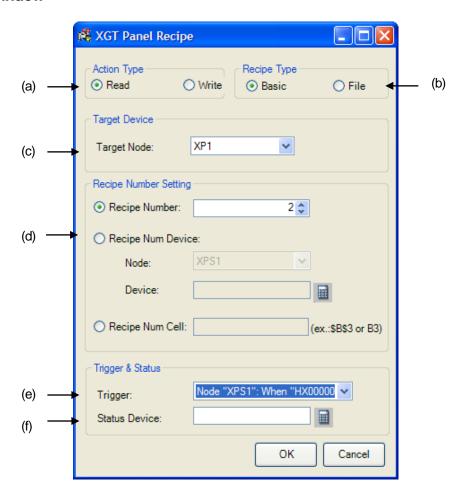


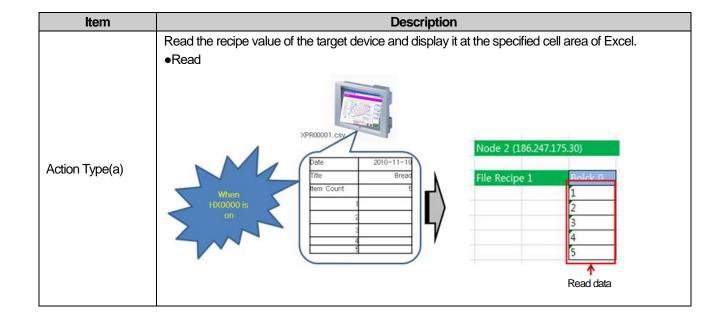
- (8) Press [Edit Template File] to activate Excel.
- (9) Select Option Function [XGT Panel Recipe] from the activated Excel file or [XGT Panel Recipe] with the right button of the mouse.



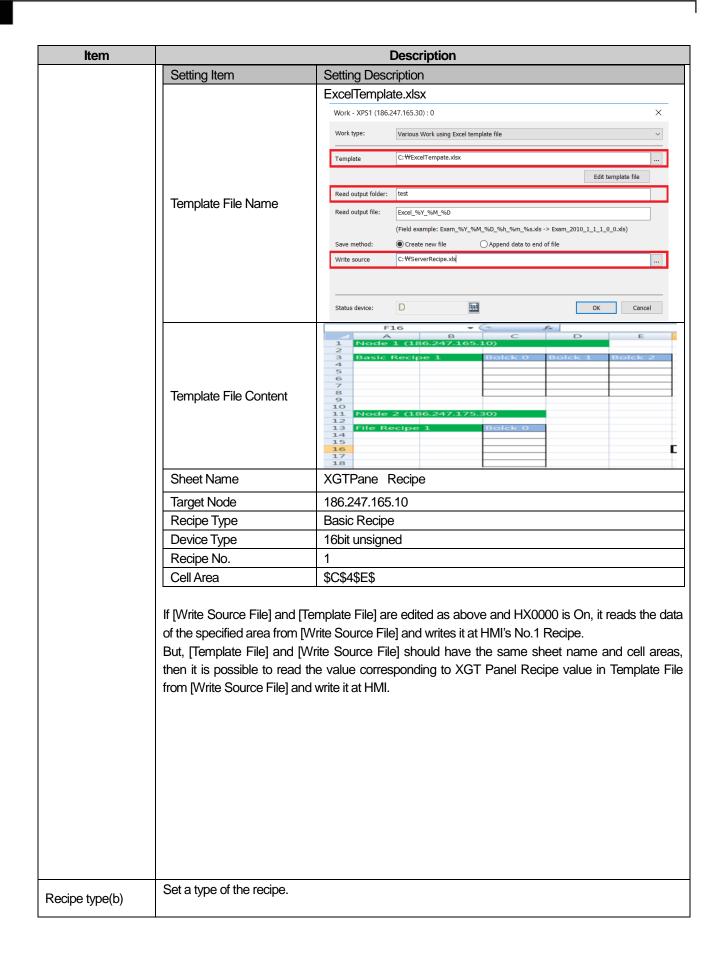
(10) Once a dialog box appears, set each attribute of [XGT Panel Recipe].

15.3.3 Window





Item	Description				
	In case that HX0000 Device is On as above,				
	Setting Item		Setting Description		
	Target Node		186.247.165.10		
	Recipe Type		File Recipe		
	Recipe No.		1		
	Device Type		16bit unsigned		
	Cell Area	\$C\$14\$C\$18			
		-	R0001.csv) No. 1 of XGT Panel	and display it at	
	Excel File \$C\$14\$C\$18 as Setting Description above. Write the relevant value corresponding to the recipe number among the values saved Source File] in the subject recipe. • Write			s saved in [Write	
	Set [Write Source File](Serve				
	Setting Item	Setting Description			
		ServerRecipe.xlsx			
		Work - XPS1 (186.247.165.30	0):0	×	
		Work type: Various	Work using Excel template file	~	
		Template C:₩Exce	elTempate.xlsx		
			Ed	lit template file	
		Read output folder: test			
	Write Source File Name	Read output file: Excel_%			
		(Field example: Exam_%Y_%M_%D_%h_%m_%s.xds -> Exam_2010_1_1_1_0_0.xds)			
		Save method: © Create new file Append data to end of file			
		Write source C:₩Sen	verRecipe.xls		
		Γ			
		Status device:	ОК	Cancel	
	Write Source File Content	A 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18	3 13 2 4 14 2	1 2 3 3 4 4 5	
	Sheet Name	XGTPanelRecipe			
	Cell Area		\$C\$4\$E\$8		
	After setting [Template File], 6	edit it as below			



Item	Description		
	Setting Item	Setting Description	
		As a recipe edited in XP-Builder, it is a recipe downloaded to XGT Panel's project file.	
	Basic Recipe	Recipe Project Project Property	
	File Recipe	It refers to a file recipe in XGT Panel's USB or SD Card or CF Card. XPR00002.csv 35 31 27	
Target Node(c)	Set a node subject to Device	e Communication.	
J ()	Set recipe number.		
	Setting Item	Setting Description	
	Basic Recipe	It means the recipe number edited on XP-Builder. Recipe Recipe Property Basic Recipe Insert Recipe 1 Recipe 2 Recipe 3 Recipe 4 Recipe 4 Recipe 4 Recipe	
Recipe No.(d)	File Recipe	It refers to file recipe number in XGT Panel's USB or SD Card or CF Card. Six digits at the end of a file recipe indicate its file number.	

Item		Description
	Recipe number	is set as below.
	Setting Item	Setting Description
	Recipe No.	Directly set the recipe number to display or write.
		The row number in the set recipe area is the recipe number.
	Recipe No. Device	Set the recipe number to display with the value of the relevant node device. Ex) If XPS1's HW0000 is set as the recipe number, the relevant recipe will be displayed in the relevant device value.
	Recipe No. Cell	Set the recipe number to display with the value of the corresponding cell area. A B C D E F G H
		1 Node 1 (186.247.165.10) 2
		If recipe no. cell is set as \$H\$4, the content of NO. 3, the value of \$H\$4 Cell, is displayed in XP-Server Recipe Object area as above. At this time, only the cell areas of the sheet to which XP-Server Recipe Object belongs are recognized.
Trigger(e)	Set a trigger iten	n in which XP-Server Recipe will be activated among those set on XP-Manager.
Status Device(f)		save its action status after executing XP-Server Recipe action.

Note

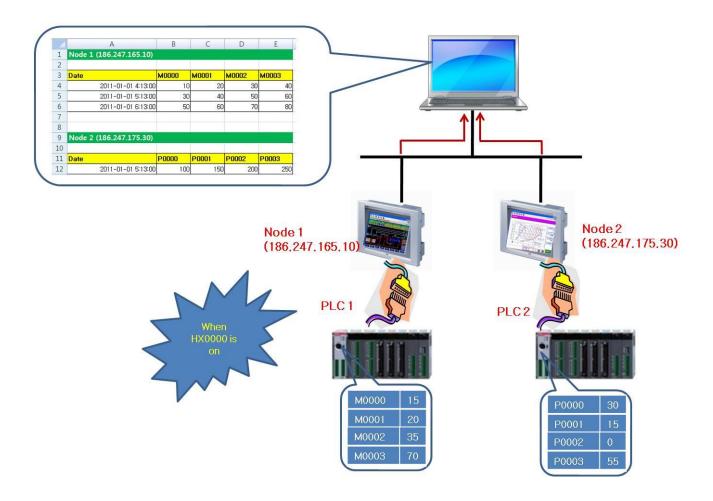
- (1) Any Read-Only device cannot be set as a status device.
- (2) In case of [Read] action, any Read-Only device cannot be set as a target device
- (3) If any change in the Subject Node, Subject Device or Device Type occurs, the device address will be initialized.
- (4) Any data will not be written if the device count of XGT Panel's recipe and the block count are less than the matrix area of the designated area.
 - Ex) In case that Recipe No.1 Block count:3 Device Count: 5 as seen in the example above,
 - It activates only when the size of the area specified in Excel is larger than 5 columns and 3 rows. If one matrix does not satisfy this requirement, it does not activate.
- (5) When reading XP Panel's Recipe data, writing is impossible in the areas other than the specified area. Block count and Device Count are corresponding to column and row.

15.4 XP-Server Logging

15.4.1 Introduction

The PLC Device of the subject node connected to XP-Server is read and the accumulated data in a particular area of a particular sheet in Excel file are displayed as logging data.

Example) If any Trigger(HX0000 Device is On) is prompted, it reads the value of recipe value of PLC Device connected to Node 1 and Node 2 and accumulates data in a particular area of a particular sheet to display.



[Sequence]

- (1) Create an Excel template file.
- (2) Register the server on XP-Manger.
- (3) Add HMI node connected to PLC to be monitored on XP-Manger.
- (4) Set trigger conditions in which XGT Panel Logging Work is activated.
- (5) Select [Various Works using Excel Template File] from the work items of XP-Manager's server.
- (6) Set the template file written in (1) as [Template File].
- (7) Set the path on which outcomes will be saved in [Read Output Folder].
- (8) Press [Edit Template File] to activate Excel.
- (9) Select Option Function [XGT Panel Logging] from the activated Excel file or [XGT Panel Logging] with the right button of the mouse.
- (10) Once a dialog box appears, set each attribute of [XGT Panel Logging].

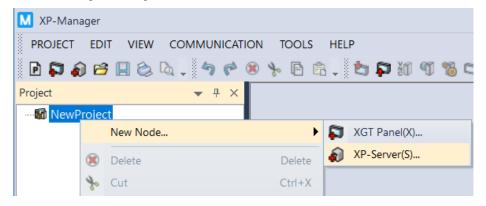
15.4.2 Setting Sequence

(1) Create an Excel template file.

If Excel is activated as below, save the Excel file after making the Excel template file to display XP-Server Logging data (e.g., C:\ExcelTemplate.xlsx).

	E20 ▼ (f _x			
4	А	В	С	D	E
1	Node 1 (186.247.165.10)				
2					
3	Date	M0000	M0001	M0002	M0003
4					
5					
6					
7					
8					
9	Node 2 (186.247.175.30)				
10					
11	Date	P0000	P0001	P0002	P0003
12					
10					

(2) Execute XP-Manger and register the server.





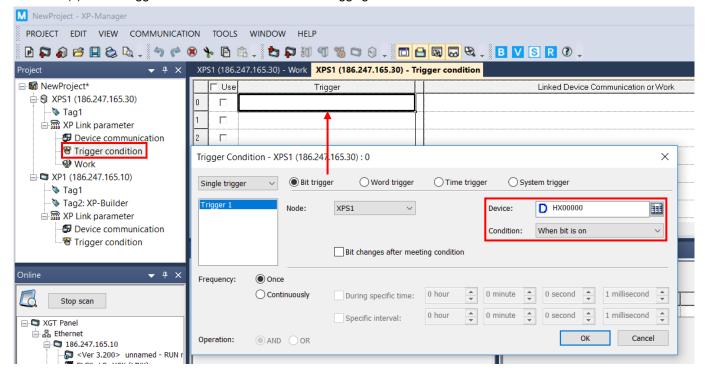
(3) Add XGT Pane node connected to PLC to be monitored on XP-Manger.

Node	Item	Setting
XP-Server	Node Name	XPS1
	Node IP	165.247.165.30
XGT Panel	Node Name	XP1
	PLC Type	XGK Ethernet
	Node IP	165.247.165.10

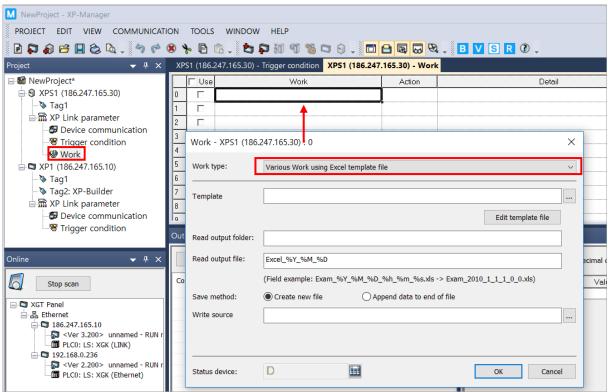
Ctrl+X

(4) Set trigger conditions in which XP-Server Logging Work is activated.

Cut

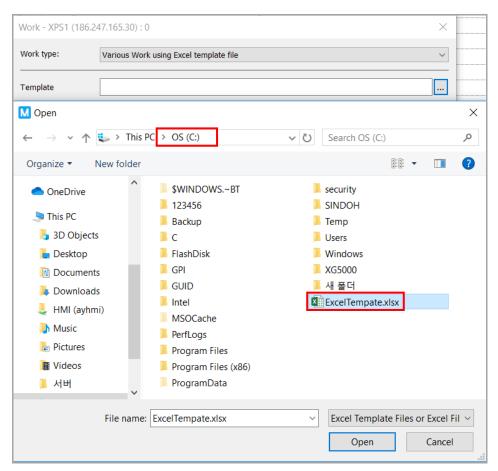


Select [Various Works using Excel Form File on PC] from the work items of XP-Manager's server. (5)

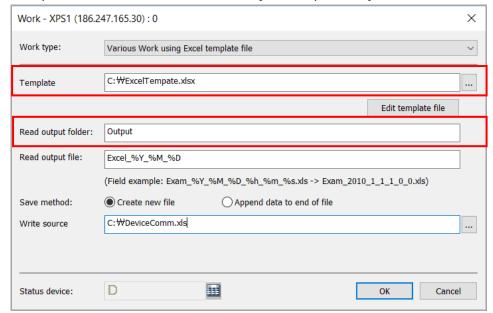


(6) Set the template file written in (1) as [Template File].

Work - XPS1 (186.	247.165.30) : 0			×
Work type:	Various Work using Ex	cel template file		~
Template				
			Edit temp	late file
Read output folder:				
Read output file:	Excel_%Y_%M_%D			
	(Field example: Exam_	%Y_%M_%D_%h_%m_%s.xls	-> Exam_2010_1_1_1_0_0.	xls)
Save method:	Create new file	Append data to end	of file	
Write source				
Status device:	D	==	ОК	Cancel

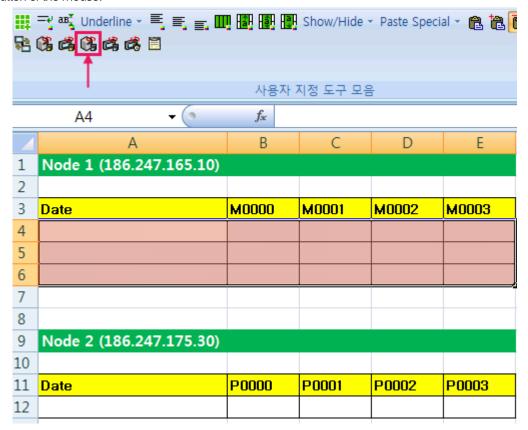


(7) Set the path on which outcomes will be saved in [Read Output Folder].

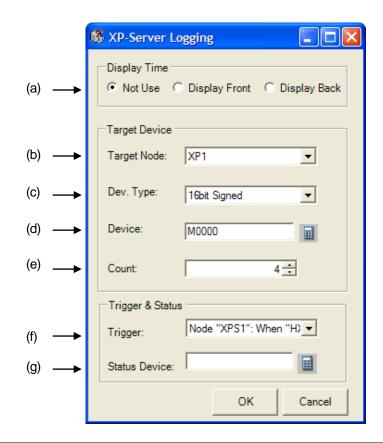


Chap.15 Excel Work

- (8) Press [Edit Template File] to activate Excel.
- (9) Select Option Function [XP-Server Logging] from the activated Excel file or [XP-Server Logging] with the right button of the mouse.



15.4.3 Window



Item		Description								
		Set whether to display logging time. Time is basically displayed in [year-month-day hour: minute: second].								
	Setting Item				Setting I	Descriptio	n			
	Not display	L	_ogging time	is not displaye	ed.					
		L	ogging time	is displayed ir	n front of the	e logging o	lata.			
		ı	Date		M0000	M0001	M000)2	M0003	
Display Time (a)	Display front		2011	-01-01 4:13:00	10	100		150		300
		l _	2011	-01-01 8:13:00	20	200		250		350
			2011-	-01-01 16:13:00	30	300		350		400
		Logging time is displayed behind the logging data.								
	Display back		M0000	M0001	M0002	M0003	}	Date	9	
			10	100	15	50	300	20	11-01-01	4:13:00
			20	200	25	50	350	20	11-01-01	8:13:00
			30	300	35	50	400	201	1-01-01 1	6:13:00
Target Node(b)	Set a device subj	jec	t to logging.							
Device Type(c)	Set a type of the	de	vice subject t	o logging.						
Device(d)	Set a device subj	Set a device subject to logging. It will be the leading device of Logging.								
Count(e)	Set how many devices to read or write.									
Trigger(f)	Set a trigger item in which XP-Server Logging will be activated among those set on XP-Manager.									
Status Device(g)	Set a device to sa	ave	e its action sta	atus after exe	cuting XP-S	Server Log	ging a	action	1	

Chap.15 Excel Work

Note

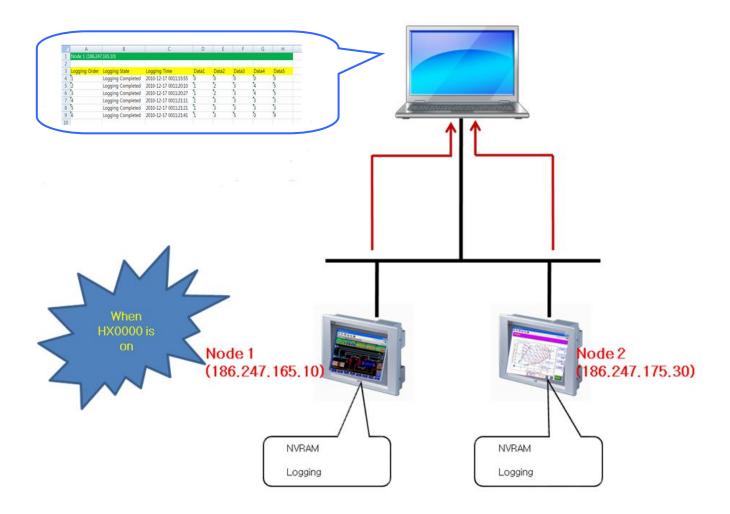
- (1) Any Read-Only device cannot be set as a status device.
- (2) In case of [Read] action, any Read-Only device cannot be set as a target device
- (3) If any change in the Subject Node, Subject Device or Device Type occurs, the device address will be initialized.
- (4) Any data will not be written beyond the designated Excel area.

15.5 XGT Panel Logging

15.5.1 Introduction

The logging data saved on XGT Panel NVRAM can be displayed at a particular area of a particular sheet in the relevant Excel file.

Example) If any Trigger (HX0000 Device is On) is prompted, it displays the logging data saved in Node 1, Node 2 XPT Panel NVRAM in a particular area of a particular sheet at the relevant Excel file.



Chap.15 Excel Work

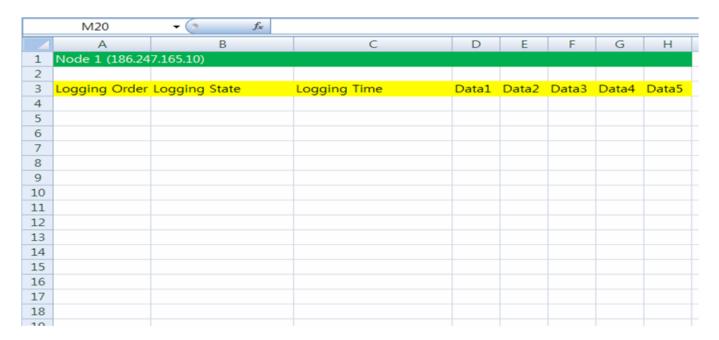
[Sequence]

- Create an Excel template file. (1)
- (2) Register the server on XP-Manger.
- (3)Add HMI node connected to PLC to be monitored on XP-Manger.
- (4) Set trigger conditions in which XGT Panel Logging Work is activated.
- (5) Select [Various Works using Excel Template File] from the work items of XP-Manager's server.
- (6)Set the template file written in (1) as [Template File].
- Set the path on which outcomes will be saved in [Read Output Folder]. (7)
- (8) Press [Edit Template File] to activate Excel.
- Select Option Function [XGT Panel Logging] from the activated Excel file or [XGT Panel Logging] with the right (9)button of the mouse.
- (10)Once a dialog box appears, set each attribute of [XGT Panel Logging].

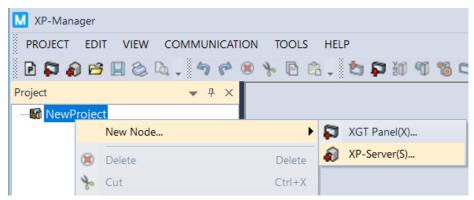
15.5.2 Setting Sequence

Create an Excel template file. (1)

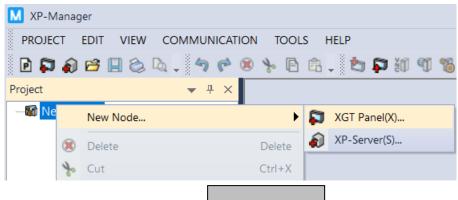
If Excel is activated as below, save the Excel file after making the Excel template file to display XGT-Server Logging data (e.g., C:\ExcelTemplate.xlsx).



(2) Execute XP-Manger and register the server.

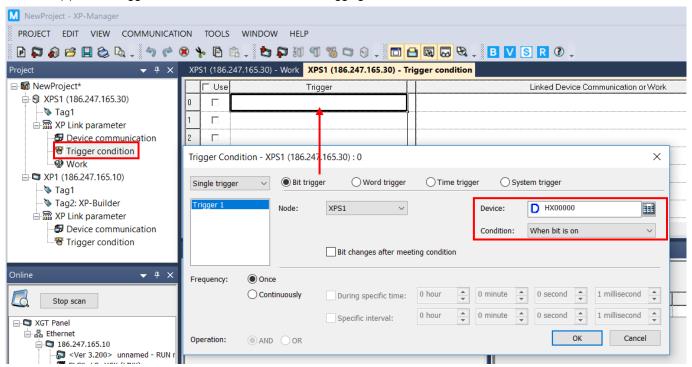


Add XGT Pane node connected to PLC to be monitored on XP-Manger. (3)

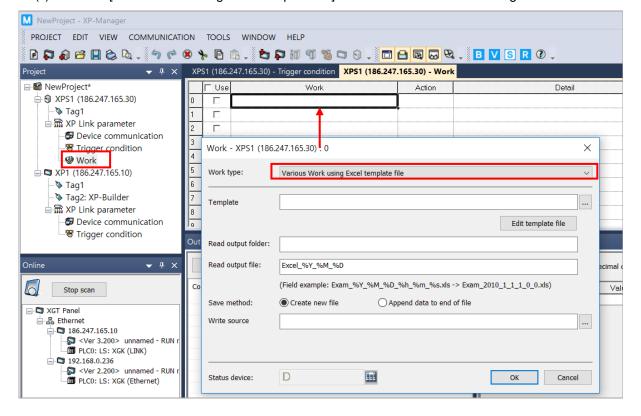


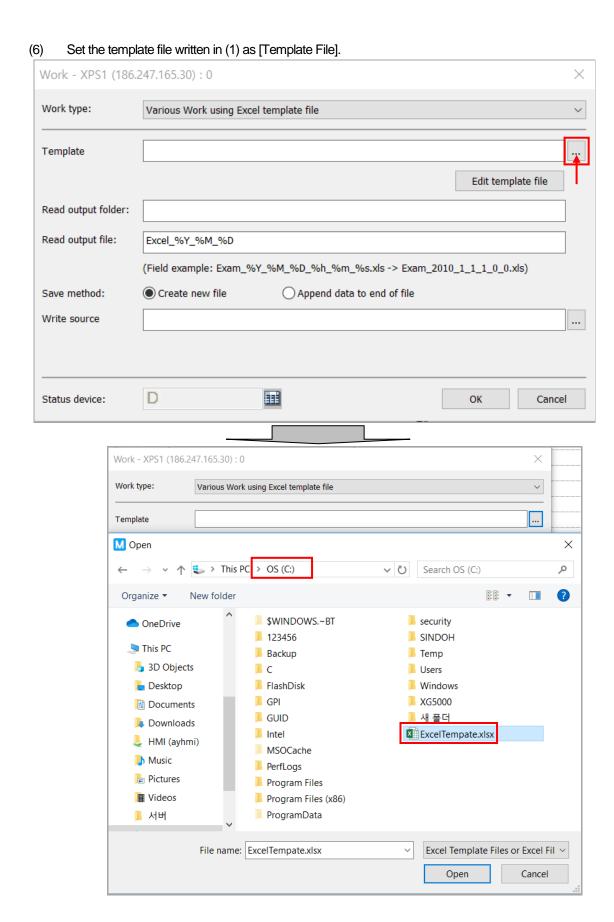
Node	Item	Setting
VD Conver	Node Name	XPS1
XP-Server	Node IP	165.247.165.30
XGT Panel	Node Name	XP1
	PLC Type	XGK Ethernet
	Node IP	165.247.165.10

(4) Set trigger conditions in which XGT Panel Logging Work is activated.



Select [Various Works using Excel Template File] from the work items of XP-Manager's server. (5)

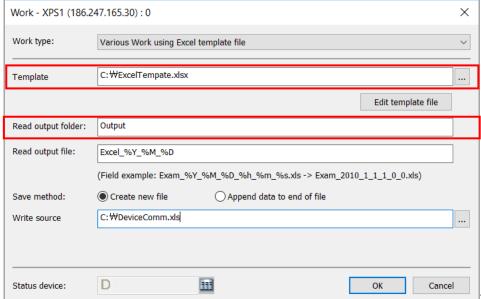




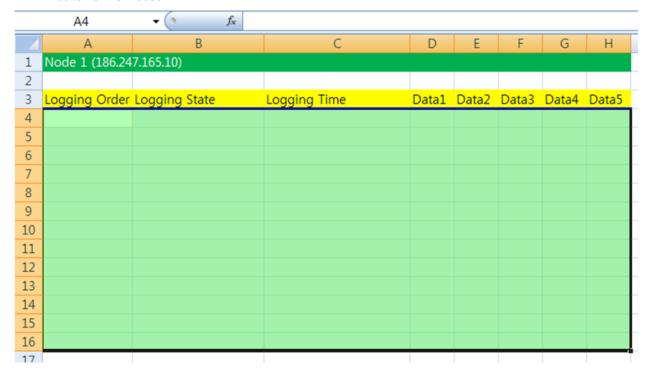
(7)



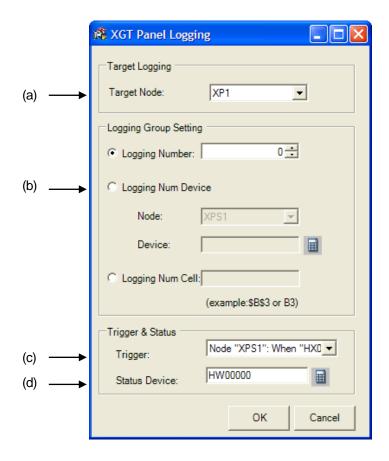
Set the path on which outcomes will be saved in [Read Output Folder].



- Press [Edit Template File] to activate Excel. (8)
- Select Option Function [XGT Panel Logging] from the activated Excel file or [XGT Panel Logging] with the right (9)button of the mouse.

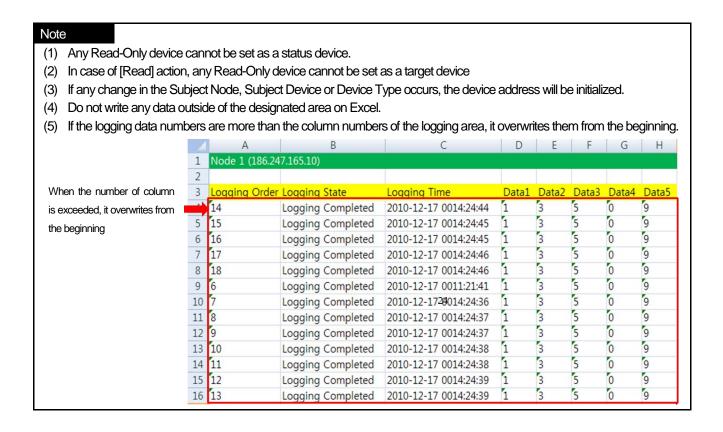


15.5.3 Window



Item	Description			
Target Node(a)	Set a node subj	ect to logging to display.		
Target Node(a)	Set a node subjeted Setting Item Logging No.	Directly set the logging number to For Logging number, see XP-Buil If logging is selected from XP-logging setting window. Set a logging setting window. Set a logging setting window.	der's illustration screen. Builder, logging number will appear in the ging number to display. B-1 * System Alarm * Alarm Group Logging * No Condition	
Logging Group Setting (b)	Logging No.	Project Property Project Summary Start Table Insert Text Table Insert Script Insert Sc	1 Every hour at 37m 2 Bit Device HX00000 Rising Edge 3 Bit Device HW00000.0 Rising Edge 4 5 6 7 8 Logging no. 9 10	
	Logging No.	Set the logging number to display	with the value of the relevant node device.	

Item		Description
	Device	Ex) If XPS1's HW0000 is set for Logging Group Number, the relevant logging is displayed on the relevant device value.
	Logging No.	Set the logging group number to display with the value of the relevant cell area.
		A B C D E F
		1 Node 1 (186.247.165.10)
		2
		3 Date M0000 M0001 M0002 M0003 Logging no.
		4 5
		5
		7
		If \$F\$4 Cell is set as logging number cell, the content of NO. 5, the value of \$F\$4 Cell, is displayed at XGT Panel Logging Object area as above. At this time, only the cell areas of the sheet to which XGT Panel Logging Object belongs are recognized.
Trigger(c)	Set a trigger item	in which XGT Panel Logging will be activated among those set on XP-Manager.
Status Device(d)	Set a device to sa	ave its action status after executing XGT Panel Logging action.

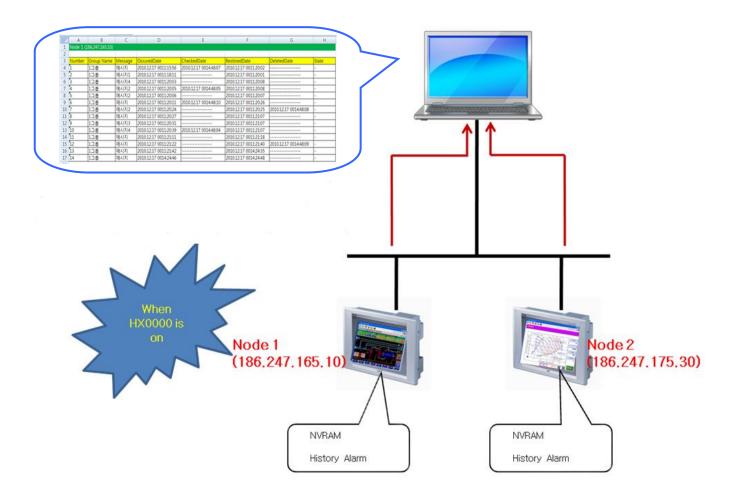


15.6 XGT Panel Alarm

15.6.1 Introduction

The history alarm saved on XGT Panel NVRAM can be displayed at a particular area of a particular sheet in the relevant Excel

Example) If any Trigger (HX0000 Device is On) is prompted, it displays the history alarm data saved in Node 1, Node 2 XPT Panel NVRAM at a particular area of a particular sheet in the relevant Excel file.



Chap.15 Excel Work

[Sequence]

- Create an Excel template file. (1)
- (2) Register the server on XP-Manger.
- Add HMI node connected to PLC to be monitored on XP-Manger. (3)
- Set trigger conditions in which XGT Panel Alarm Work is activated. (4)
- (5) Select [Various Works using Excel template file] from the work items of XP-Manager's server.
- Set the template file written in (1) as [Template File]. (6)
- Set the path on which outcomes will be saved in [Read Output Folder]. (7)
- (8) Press [Edit Template File] to activate Excel.
- Select Option Function [XGT Panel Alarm] from the activated Excel file or [XGT Panel Alarm] with the right (9)button of the mouse.
- (10)Once a dialog box appears, set each attribute of [XGT Panel Alarm].

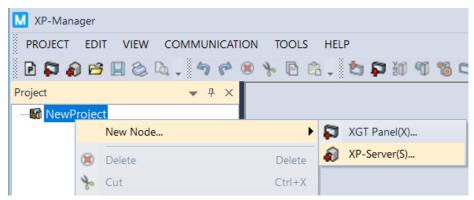
15.6.2 Setting Sequence

Create an Excel template file. (1)

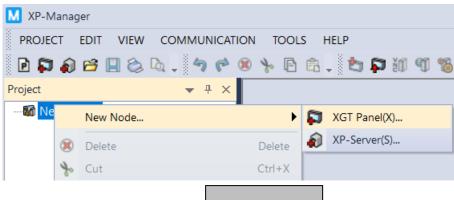
If Excel is activated as below, save the Excel file after making the Excel template file to display XGT Panel Alarm data (e.g., C:\ExcelTemplate.xlsx).

	E25	- (fx					
	Α	В	С	D	E	F	G	Н
1	Node 1 (1	186.247.165.10)						
2								
3	Number	Group Name	Message	OccuredDate	CheckedDate	RestoredDate	DeletedDate	State
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

(2) Execute XP-Manger and register the server.

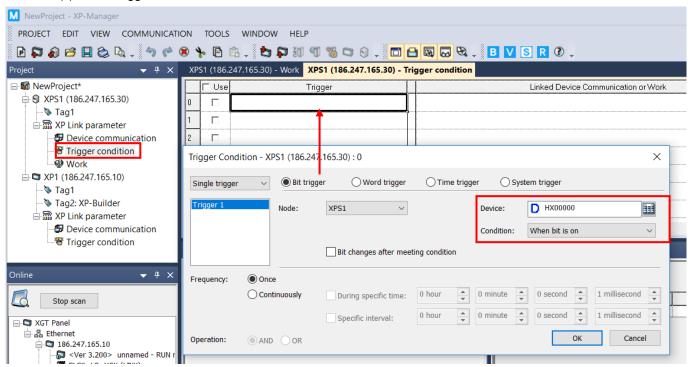


Add XGT Pane node connected to PLC to be monitored on XP-Manger. (3)

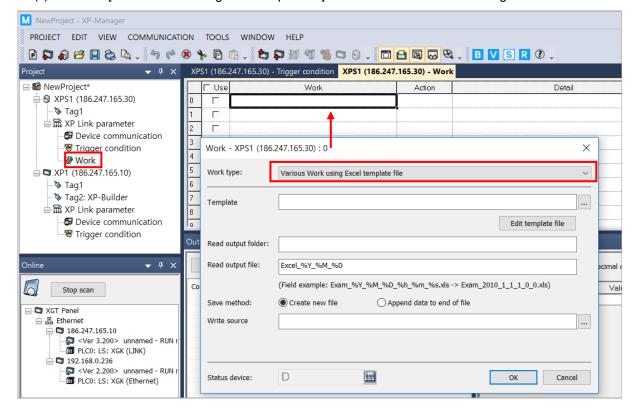


Node	ltem	Setting
VD Contor	Node Name	XPS1
XP-Server	Node IP	165.247.165.30
XGT Panel	Node Name	XP1
	PLC Type	XGK Ethernet
	Node IP	165.247.165.10

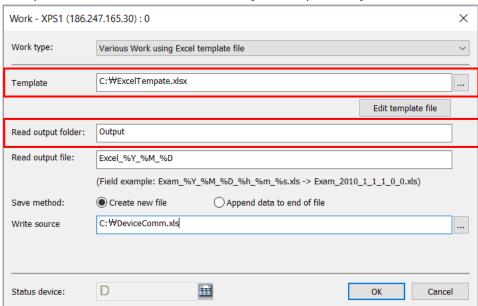
(4) Set trigger conditions in which XGT Panel Alarm Work is activated.



Select [Various Works using Excel template file] from the work items of XP-Manager's server. (5)

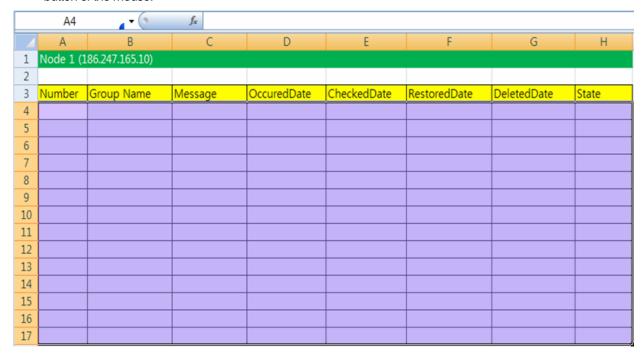


Set the template file written in (1) as [Template file]. (6)Work - XPS1 (186.247.165.30): 0 \times Work type: Various Work using Excel template file Template Edit template file Read output folder: Read output file: Excel_%Y_%M_%D (Field example: Exam_%Y_%M_%D_%h_%m_%s.xls -> Exam_2010_1_1_1_0_0.xls) Save method: Create new file O Append data to end of file Write source ▦ D Status device: OK Cancel Work - XPS1 (186.247.165.30): 0 Work type: Various Work using Excel template file ... Template M Open × > This PC OS (C:) ∨ ひ Search OS (C:) م . . Organize • New folder \$WINDOWS.~BT security OneDrive 123456 SINDOH This PC Backup Temp 3D Objects Users FlashDisk Windows **Desktop** GPI XG5000 Documents 새 폴더 GUID Downloads Intel ExcelTempate.xlsx HMI (ayhmi) MSOCache Music PerfLogs Pictures Program Files Videos Program Files (x86)] 서버 ProgramData File name: ExcelTempate.xlsx Excel Template Files or Excel Fil × Open Cancel

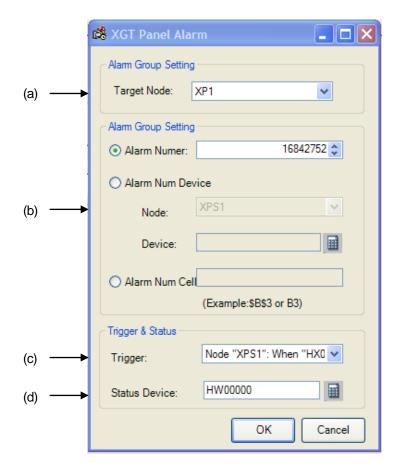


(7) Set the path on which outcomes will be saved in [Read Output Folder].

- (8) Press [Edit Template File] to activate Excel.
- (9) Select Option Function [XGT Panel Alarm] from the activated Excel file or [XGT Panel Alarm] with the right button of the mouse.



15.6.3 Window



Item		Description
Target Node(a)	Set a node subj	ect to history alarm to display.
	Setting Item	Setting Description
		Directly set the alarm group number to display.
		For Alarm Group Number, see XP-Builder's illustration screen.
		If an alarm group is selected, the group's ID will appear. Set the alarm number
		with the relevant group ID.
Alarm Group Setting (b)	Alarm No.	New Project* Sproject Property Sproject Summary Sproject Summa
	Alarm No.	Set the alarm group number to display with the value of the relevant node
	Device	device.

Item		Description
		Ex) In case that Alarm Group No. is set with XPS1's HW0000, mark the relevant group alarm on the relevant device value.
		Set Alarm Group No. to display with the value of the relevant cell area.
		A B C D E F G H I Node 1 (186.247.165.10)
		Number Group Name Message OccuredDate CheckedDate RestoredDate DeletedDate State Alam group no. A
	Alarm No. Cell	If [Alarm No. Cell] is set as \$I\$3, 16842752 Group Number, the value of \$I\$3 Cell, is marked in XGT Panel Alarm Object area as above.
		At this time, only the cell areas of the sheet that belongs to XGT Panel Alarm Object are recognized.
Trigger(c)	Set a trigger item	in which XGT Panel Alarm will be activated among those set on XP-Manager.
Status Device(d)	Set a device to sa	ave its action status after executing XGT Panel Alarm action.

Note

- (1) Read-Only devices are not allowed to set as status devices.
- (2) If any change in Alarm Group, Device or Node occurs, the devices will be initialized.
- (3) Alarm Group No. Cell can recognize the cell values of Excel Sheet that belongs to XGT Panel Alarm.
- (4) Do not write any data outside of the designated area on Excel.
- (5) If the Alarm data numbers are more than the column numbers of the specified area, it overwrites them from the beginning.

	W.	A	В	C	D	E	E	G	H
	1	Node 1 (186.247.165.10)						
	2				· land	at the table of the table of the table of the table of ta		December 11 months	
Maria tha an area of	3	Number	Group Name	Message	OccuredDate	CheckedDate	RestoredDate	DeletedDate	State
When the number of	-	15	1그룹	메시지4	2010.12.17 0014:52:05		2010.12.17 0014:52:21	************	
column is exceeded,	5	16	1그룹	메시지	2010.12.17 0014:52:06	2010.12.17 0014:52:17	2010.12.17 0014:52:24		-
it overwrites from the	6	17	1그룹	메시지1	2010.12.17 0014:52:06	***************************************	2010.12.17 0014:52:22		*
ii overwiiles iioiti liie	7	18	1그룹	메시지2	2010.12.17 0014:52:06		2010.12.17 0014:52:21		-
	8	19	1그룹	메시지3	2010.12.17 0014:52:06				-
	9	20	1그룹	메시지2	2010.12.17 0014:52:07	2010.12.17 0014:52:19	2010.12.17 0014:52:09		-
	10	21	1그룹	메시지4	2010.12.17 0014:52:07		2010.12.17 0014:52:10		
	11	22	1그룹	메시지	2010.12.17 0014:52:08		2010.12.17 0014:52:23		
	12	23	1그룹	메시지1	2010.12.17 001452:09	*******	2010.12.17 0014:52:23		
	13	24	1그룹	메시지3	2010.12.17 0014:52:10		2010.12.17 0014:52:22		
	14	25	1그룹	메시지2	2010.12.17 0014:52:23		2010.12.17 0014:52:24		
	15	12	1그룹	메시지	2010.12.17 0011:21:22		2010.12.17 0011:21:40	2010.12.17 0014:48:09	
	16	13	1그룹	메시지	2010.12.17 0011:21:42		2010.12.17 0014:24:35		
	17	14	1그룹	메시자	2010.12.17 0014:24:46		2010.12.17 0014:24:48		

System requirement for excel work

- (1) OS: Windows XP, Windows 7
- (2) Office: Office 2003, Office 2007

It may not work properly when service pack or 2007 - compatible pack is installed at office 2003. At this time, reinstall 2003 or upgrade into 2007.

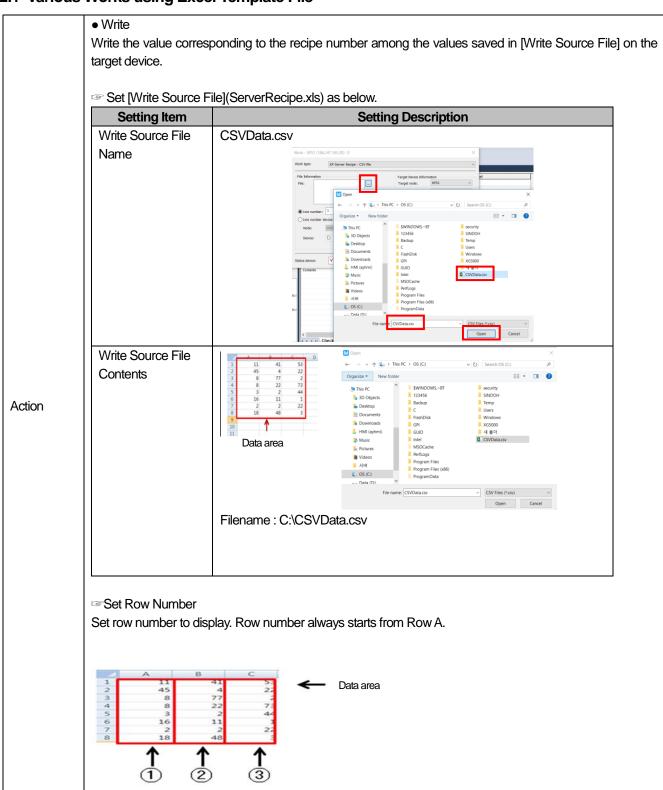
Chapter 16 Work Operation

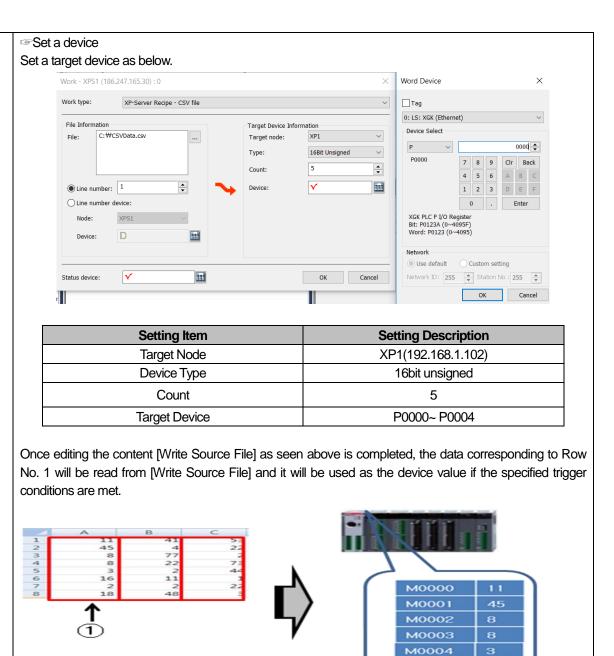
16.1 Various Works using Excel Template File

Please, refer to [Chapter 15 Excel Work].

16.2 XP-Server Recipe - CSV File

16.2.1 Various Works using Excel Template File





M0005

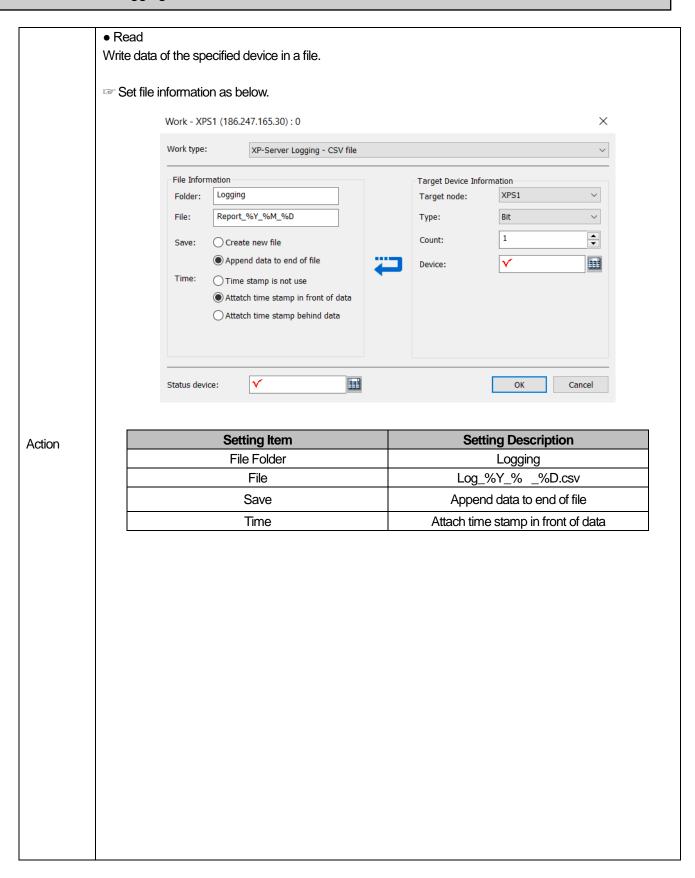
M0006 M0007

16

Note

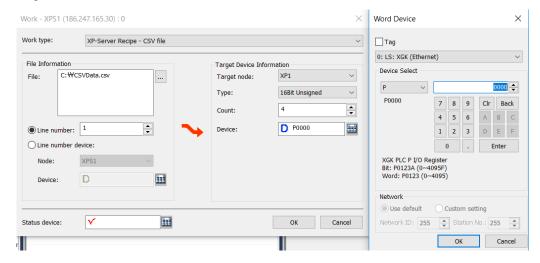
- (1) Any Read-Only device cannot be set as a status device.
- (2) In case of [Read] action, any Read-Only device cannot be set as a subject device.
- (3) If any change in the Target Node, Target Device or Device Type occurs, the device address will be initialized.
- (4) Recipes are set in vertical.
- (5) When specifying row number, any work will not activate if the specified number is not in the file.

16.3 XP-Server Logging - CSV File



Set a device

Set a target device as below.



Setting Item	Setting Description
Target Node	XP1 (192.168.1.102)
Device Type	16bit unsigned
Count	4
Target Device	P0000~P0004

Once editing the content of [Write Source File] as seen above is completed, four data starting from PLC Device P0000 connected to XP2 will be saved if the specified trigger conditions are met.

Writing at the end of the file will be continued until the trigger conditions are met.

Time is displayed in front of four device data.

A result file will be created with the specified folder and name in the folder that has XP-Server's execution file.

	А	В	С	D	E
1	2010-12-23 0016:51:15	2	22	42	0
2	2010-12-23 0016:52:06	0	4	3	6
3	2010-12-23 0016:52:21	0	5	7	6

Note

- (1) Any Read-Only device cannot be set as a status device.
- (2) In case of [Read] action, any Read-Only device cannot be set as a target device.
- (3) If any change in the Target Node, Target Device or Device Type occurs, the device address will be initialized.
- (4) Recipes are set in vertical.
- (5) If any non-existing number is specified in the file, no work will occur.

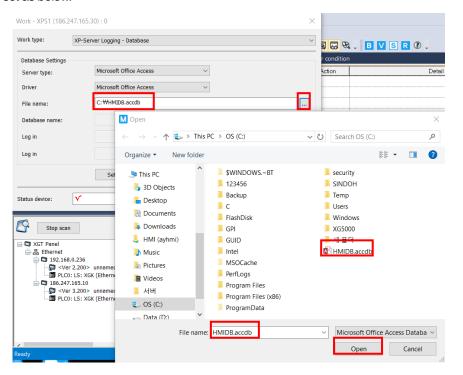
16.4 XP-Server's Logging – Database

• MS Access File



Save data of the specified device in MS Access File Database.

Database is set as below.

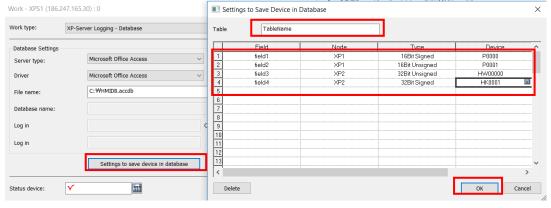


Action

Setting Item	Setting Description
Server Kind	Microsoft Office Access
Driver	Microsoft Office Access
File Name	C:\HMIDB mdb

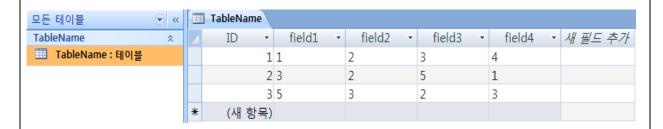
Set a device

After clicking the device to be saved in the database, set a target device as below.



Setting Item	Setting Description		
Table Name	Table Name		
Field	Field 1,Field 2,Field 3,Field 4		
Node	XP1,XP1,XP2,XP2		
Туре	16bit Signed,16bit Unsigned,32Bit Unsigned, 32Bit Signed		
Device	P0000,P0001,HW0000,HK0000		

Once editing the content of DB as seen above is completed, the target node data corresponding to the field will be read and recorded in MS AccessFile if the specified trigger conditions are met.

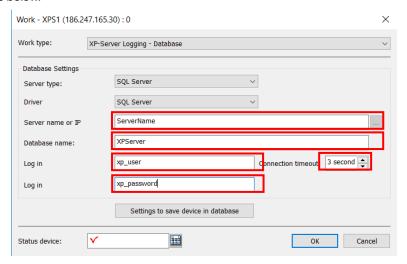


• SQL Server

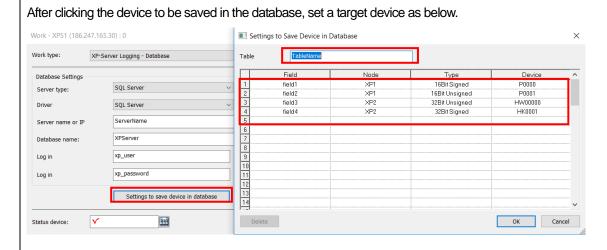
Save data of the specified device in SQL Server Database.

DB and tables shall exist in SQL Server Database.

Database is set as below.



Setting Item	Setting Description
Server Type	SQL erver
Driver	SQL Server
Server Name or IP Address	ServerName
Database Name	XPSServer
Login Name	xp_user
Password	xp_password
Connection Time Out	3 seconds



Setting Item	Setting Description
Table Name	Table Name
Field	Field 1,Field 2,Field 3,Field 4
Node	XP1,XP1,XP2,XP2
Туре	16bit Signed,16bit Unsigned,32Bit Unsigned, 32Bit Signed

Once editing the DB content as seen above is completed, the data of the target node data corresponding to the field will be read and inserted to SQL Server in a manner that they are appropriate to the field and node mapping.

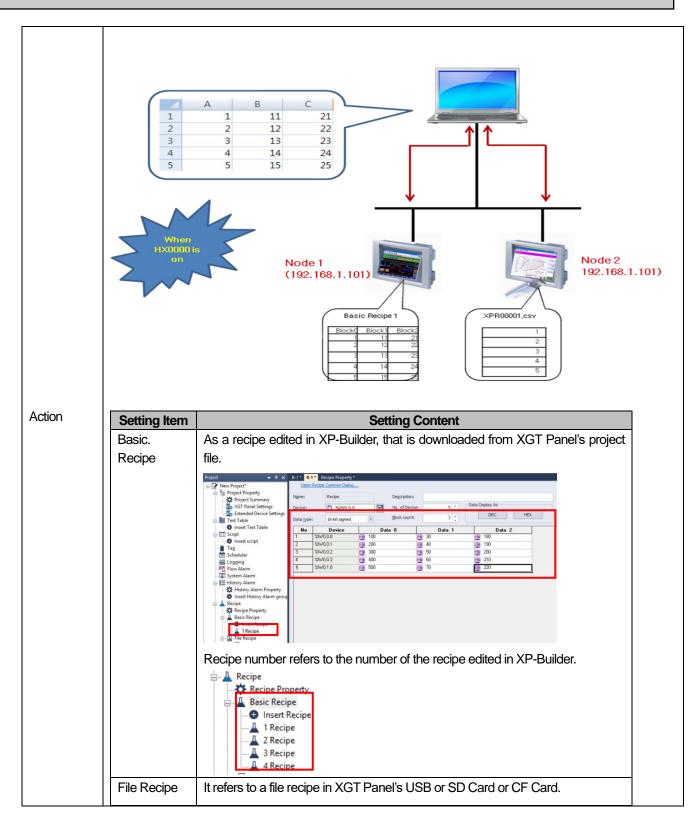
Note

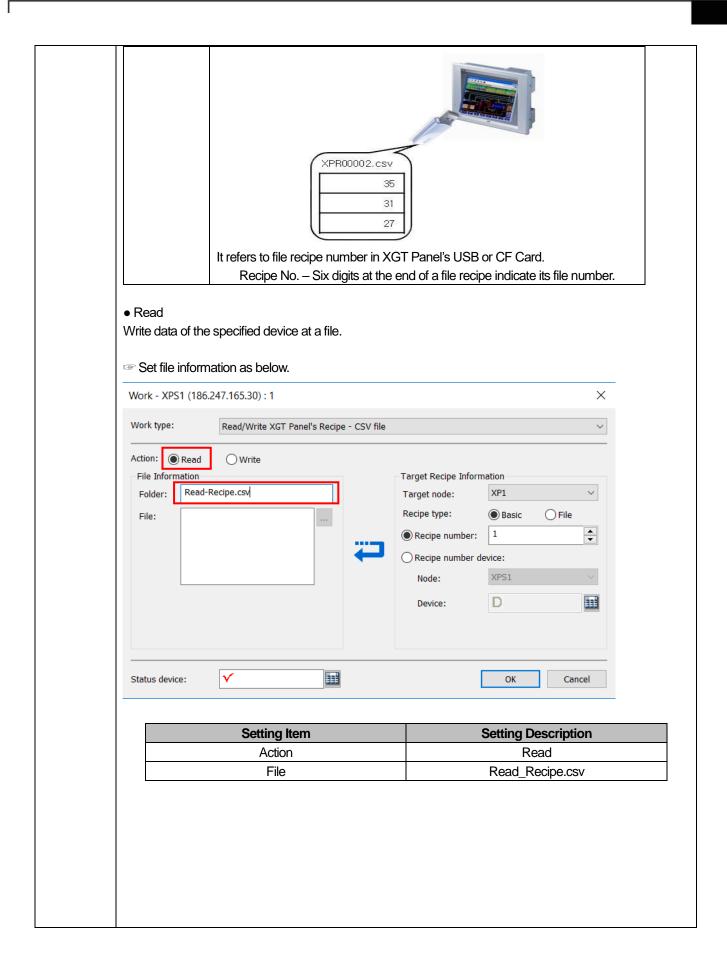
- (1) Any Read-Only device cannot be set as a status device.
- (2) If there is no field, any data is not inserted.

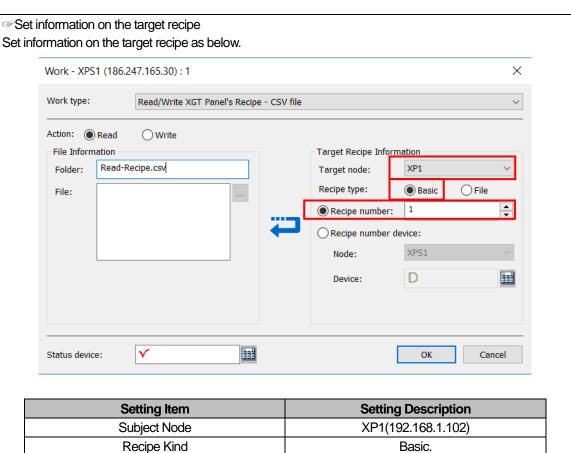
Set a device

(3) For DB Name, Login Name and Password, capital and small letters shall be distinguished when inputting.

16.5 Read/Write XGT Panel's Recipe- CSV File



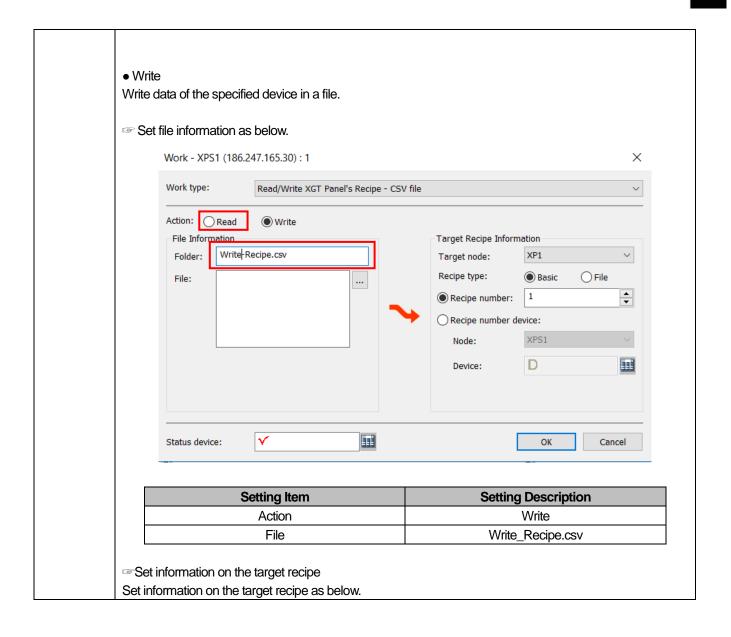


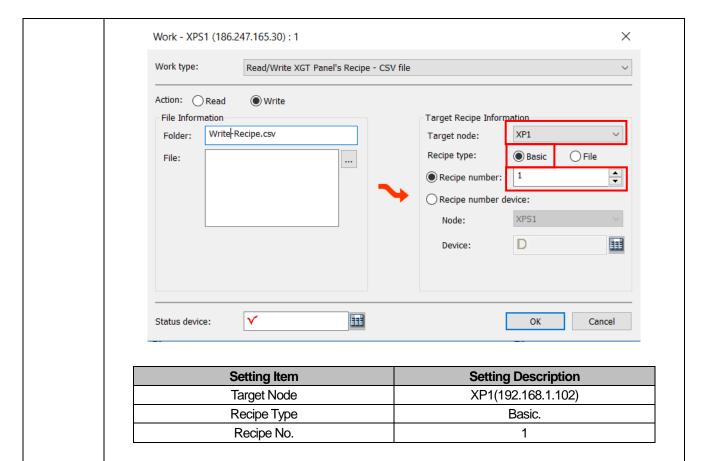


Once editing the content on file or subject recipe information as seen above is completed, data will be read from XP1's No. 1 Recipe and recorded in CSV File if the specified trigger conditions are met.

Recipe No.

A result file will be created at the specified folder and as name in the folder that has XP-Server's execution file.

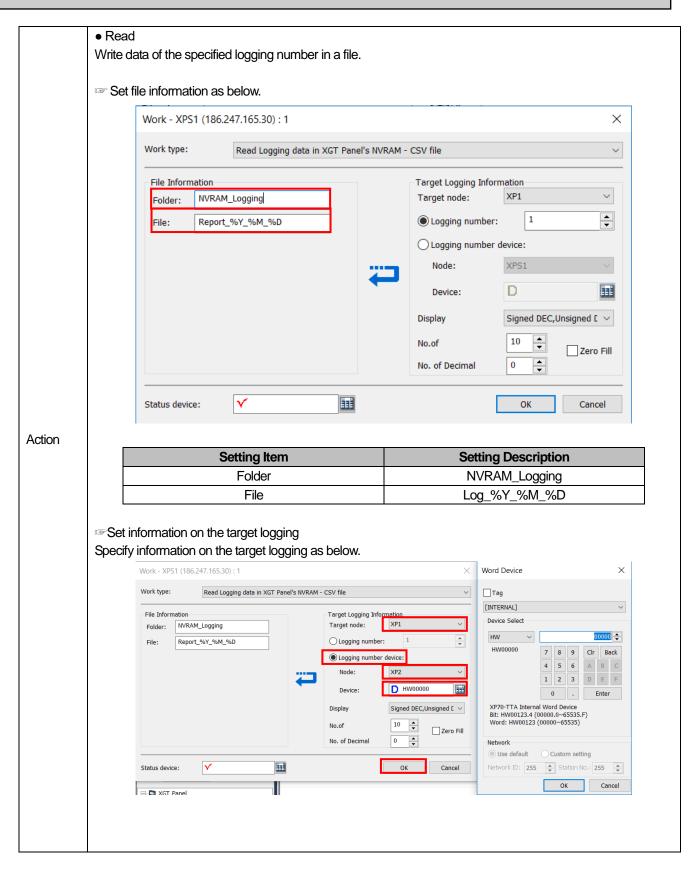




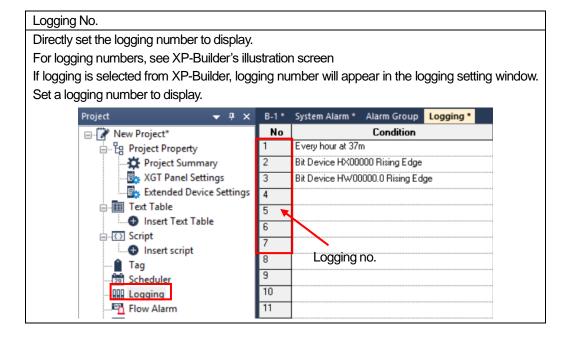
Once editing the content on file or target recipe information as seen above is completed, data will be read from CSV File and recorded in XP1's No. 1 Recipe if the specified trigger conditions are met.

- (1) Any Read-Only device cannot be set as a status device.
- (2) When writing, no data will be recorded if there are less recipe blocks and rows or less devices and columns.

16.6 Read XGT Panel's NVRAM Logging- CSV File

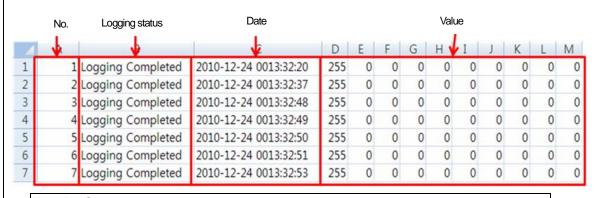


Setting Item	Se	etting Description
Target Node	XP1(192.168.1.101)	
Logging No. Device	Node	XP2(192.168.1.102)
	Device	HW0000



Once editing the content as seen above is completed, the logging number saved in XP2's HW0000 will be read and the logging data in XP1's Node designated as a target node will be saved at a specified folder and file if the specified trigger conditions are met.

A result file will be created at the specified folder and as name in the folder that has XP-Server's execution file.



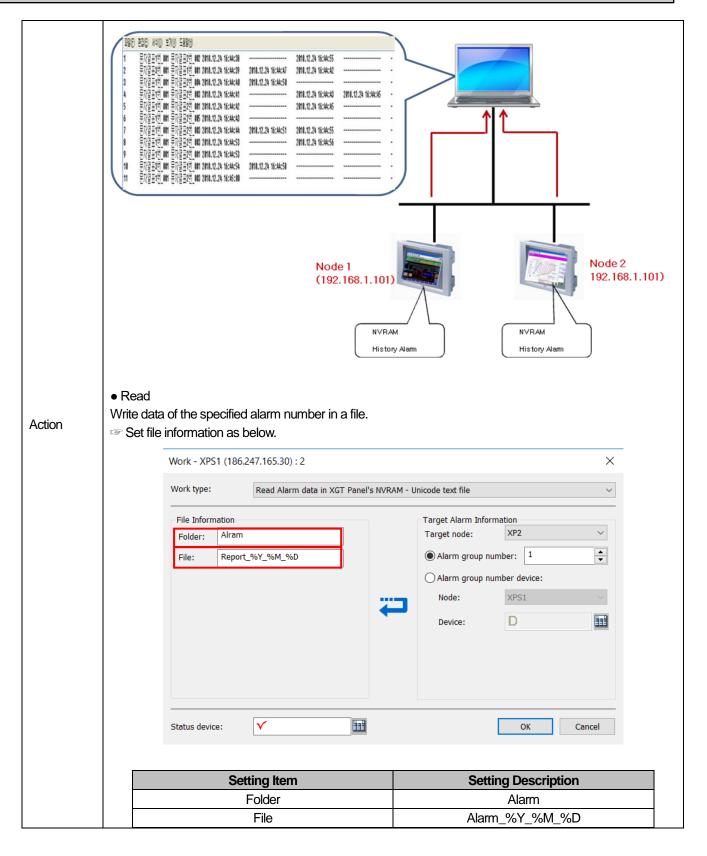
Logging Status

Logging Completed - Logging is successfully completed

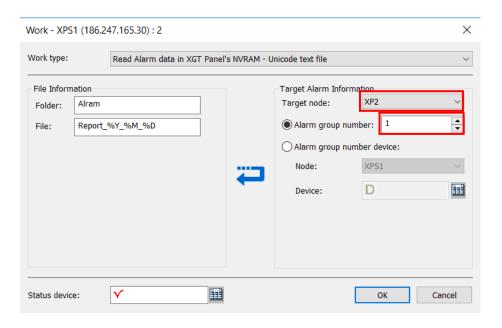
Logging Abort – Logging is not successfully completed (Failed to communicate between PLC and HMI)

- (1) Any Read-Only device cannot be set as a status device.
- (2) Work 'Read XGT Panel's Logging' creates CSV files every time CSV File.

16.7 Read XGT Panel's NVRAM Alarm – Unicode Text File



Set information on the target alarm Set information on the target alarm as below.

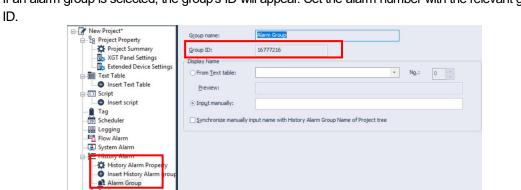


Setting Item	Setting Description
Target Node	XP1(192.168.1.101)
Alarm Group Number	16777216

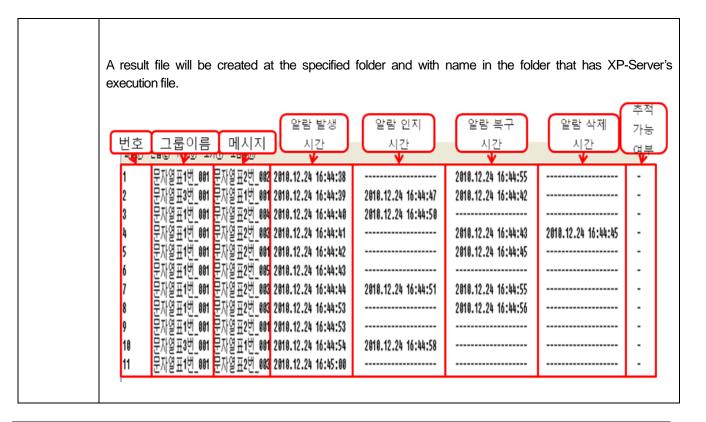
Alarm Group Number

For Alarm Group Number, see XP-Builder's illustration screen.

If an alarm group is selected, the group's ID will appear. Set the alarm number with the relevant group

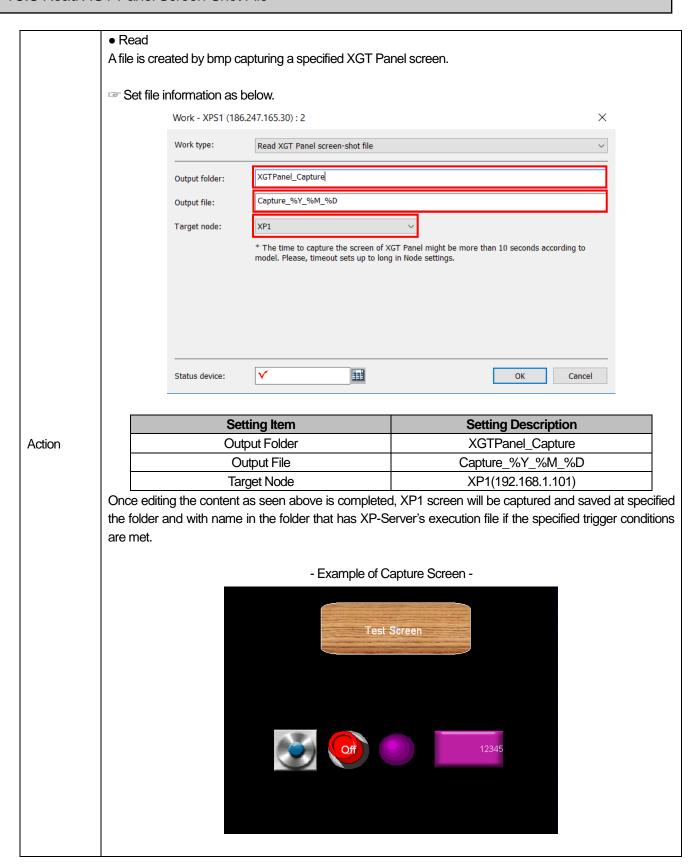


Once editing the content as seen above is completed, data corresponding to the relevant alarm number will be read from the subject node and written in Alarm_%Y_%M_%D File if the specified trigger conditions are met.



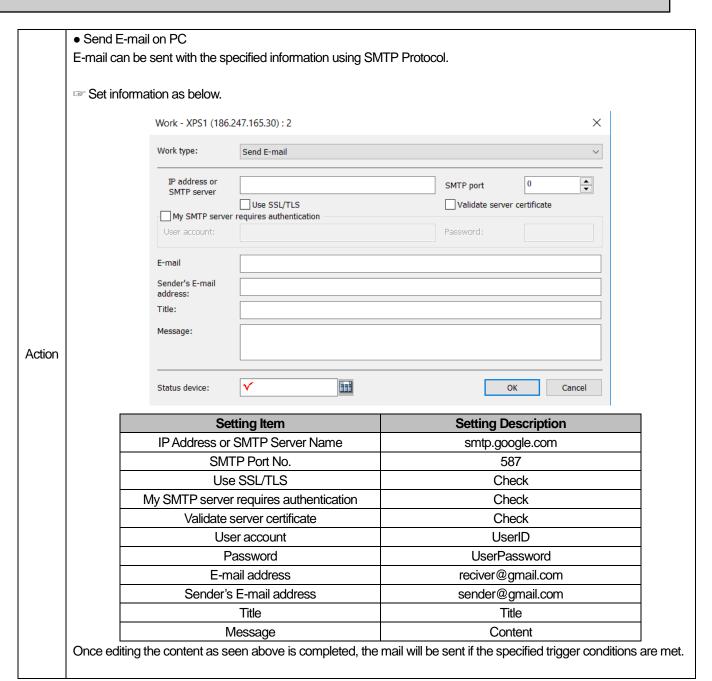
- (3) Any Read-Only device cannot be set as a status device.
- (4) Work 'Read XGT Panel's NVRAM Alarm' creates CSV files every time.

16.8 Read XGT Panel Screen-Shot File



- (1) Any Read-Only device cannot be set as a status device.
- (2) Capture files will have extension BMP automatically.
- (3) Function 'Capture Screen' may take different times depending on machine types. For XP30, it takes less than 3 seconds, for XP50 or XP70, less than 5 seconds and for XP90, less than 10 second to activate. Therefore, it is essential to appropriately define time-out time of XP-Server in which 'Read XGT Panel Screen-Shot File' is defined in order to have normal operation.

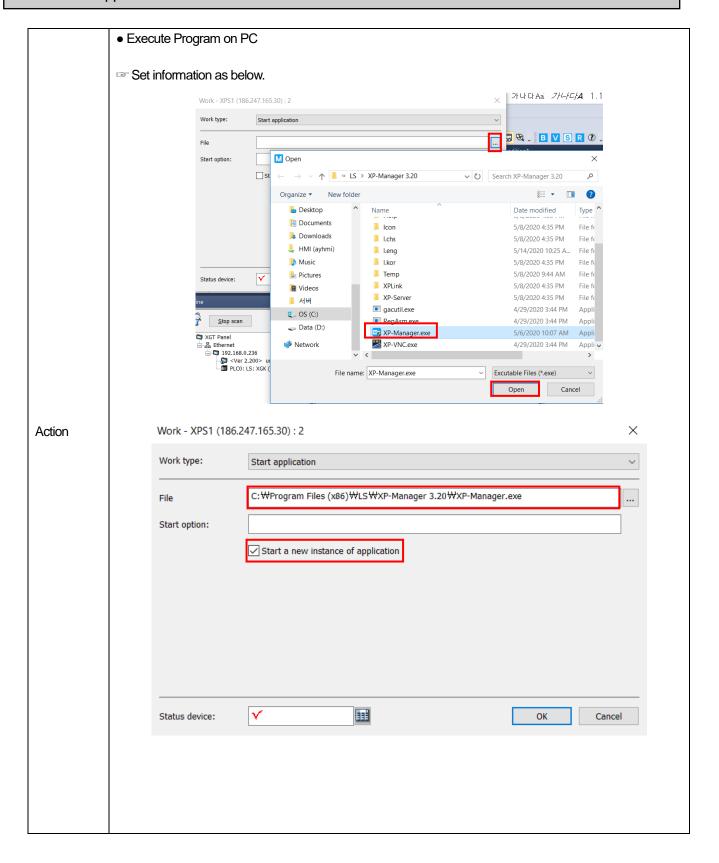
16.9 Send E-mail on PC



Note

(1) Any Read-Only device cannot be set as a status device.

16.10 Start Application



Setting Item	Setting Description
File Name	C:\Program Files\LSIS\XP-Manager 1.10\XP-
	Manager.exe
Start Option	
Start a new instance of application	Check

In case of editing the content as seen above, execute the specified file name. It may be possible to duplicate executing.

Note

(1) Any Read-Only device cannot be set as a status device.

Chapter 17 XP-Server

17.1 XP-Server's Action Method

17.1.1 XP-Server's Action Environment

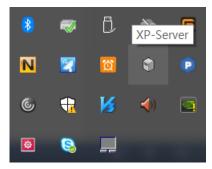
If XP-Server is installed and the shortcut icon on the desktop or the program menu is clicked, the icon for XP-Server's control will appear on the work display line. Downloading to XP-Server starts upon the right click on this icon and the click of [Start] Menu.

XP-Server is registered as Start Program when it is installed so that the icon for XP-Server's control always appears on the work display line whenever the system starts. This setting can be used if the user wants to start downloading to XP-Server automatically when the system starts. The dialog box for setting XP-Server's attributes will appear XP-Server if [Property] is clicked from the menu, which appears upon the right click on the control icon and the user may conduct set this arrangement in the dialog box.

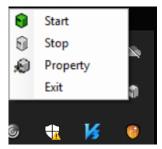
17.2 XP-Server's Control

17.2.1 Start and Stop

After installing XP-Server, double click XP-Server shortcut icon on the desktop to make XP-Server icon appear on the work display line.



Since this icon appears on the work display line to provide the menu for controlling XP-Server's action, the following context menu generates upon the right click.

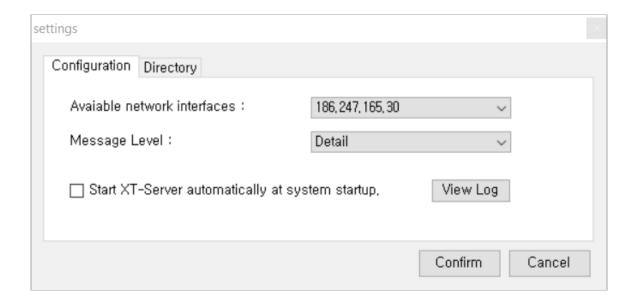


Click [Start] to activate XP-Server. If [Stop] is clicked, XP-Server's action will stop.

17.2.2 **Setting**

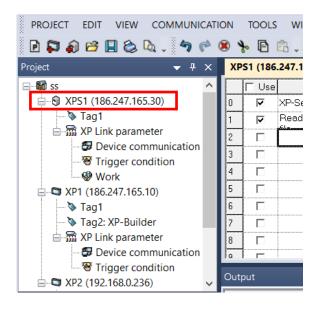
(1) Set - Available Network interface

If [Attribute] is clicked from the XP-Server icon's context menu, the window to set attributes will pop up. Among those attributions, [Network] allows the user to decide which Ethernet interface of the computer in which XP-Server currently runs is used for communication.



This setting is critical in case that the computer in which XP-Server currently runs has multiple Ethernet interfaces. Assume that there are two Ethernet interfaces (E1:192.168.1.100, E2: 192.168.1.150) and these two interfaces are different from each other and they are connected with totally independent networks respectively. In addition, XGT Panel is installed on the network to which E2 is connected. At this time, make sure to select 192.168.1 and 150 for XP-Server's network settings. That is, it is possible to communicate with XGT Panel only when XP-Server is activated via E2 interface.

At this circumstance, it is also necessary to match with XP-Server's IP set on XP-Manager. That is, a project may not work normally on XP-Server if it is registered as E1 in the registration of XP-Server during the project edition on XP-Manager. XP-Server shall be registered as E2 as below.



(2) Set-Message Level

Message levels shall be classified into Basic, Normal and Detailed, and they decide which kind of message will be displayed in the log file.

Basic

Only messages on Start or Stop of the server and Fail to execute actions are displayed.

In addition to basic-level messages, messages on failures caused by wrong entries by the user such as wrong recipe number or alarm group number or failed reading/writing files when executing XP-Server or failed communication with XGT Panel are provided.

Detailed

In addition to normal-level, messages on the numbers of each action and whether it succeeds or not are provided.

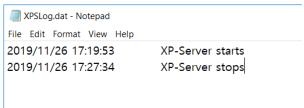
Note

Action 'Read/Write XP-Server Execution File' may fail in the following cases:

- (1) In case that the output directory of the action is designated to the system directory(C:\Windows or C:\Program Files are paths in which system files for window operation systems are saved)
- (2) Input and output directories of the action are designated to a disc (When attaching USB, designate a path and then remove it) that cannot be found in the current system.
 - (3) Set-Auto Start XP-Server when the system starts XP-Server starts automatically when the system starts

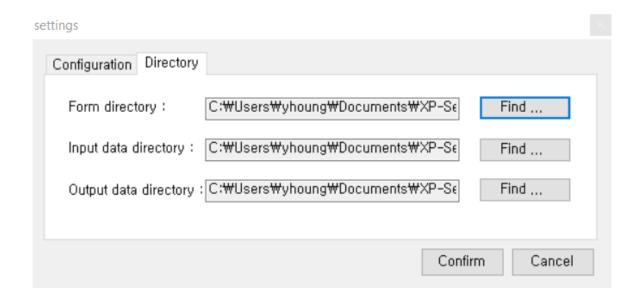
(4) Set-View Log

Once XP-Server starts, messages generated during the execution are recorded in the log file. Messages contain various contents from notice on XP-Server's starting and stopping to successful or failure results of individual actions and it is possible for user to set message levels to which extent the message details are presented on [Message Level]. If [View Log] button is clicked, a list of messages generated during the execution and saved in the text file will appear.



(5) Directory

[Directory] tap sets where the files downloaded from XP-Manager will be saved.



Form Path

Set a location in which Excel form files downloaded from XP-Manager will be saved.

• Input Data Path

When XP-Server runs, set a path in which 'Write Original File' will be saved. That is, if the input data path is set as seen in the figure, the user will specify the original CSY file when editing the project on XP-Manager in case of Action [Write XP-Server's Recipe – CSV] and this file will be saved in Path E:\Temp\Data\input\.

Output Data Path

When XP-Server runs, set a path in which output files created by XP-Server will be saved.



If setting is completed as above, Screen Capture File will be saved in Path E:\Temp\Data\output\user1\capture.

Warranty

1. Warranty Period

The product you purchased will be guaranteed for 18 months from the date of manufacturing.

2. Scope of Warranty

Any trouble or defect occurring for the above-mentioned period will be partially replaced or repaired. However, please note the following cases will be excluded from the scope of warranty.

Any trouble attributable to unreasonable condition, environment or handling otherwise specified in the manual, Any trouble attributable to others' products,

If the product is modified or repaired in any other place not designated by the company,

Due to unintended purposes

Owing to the reasons unexpected at the level of the contemporary science and technology when delivered.

Not attributable to the company; for instance, natural disasters or fire

3. Since the above warranty is limited to HMI unit only, make sure to use the product considering the safety for system configuration or applications.

Environmental Policy

LS ELECTRIC Co., Ltd supports and observes the environmental policy as below.

About Disposal Environmental Management LS ELECTRIC considers the environmental LS ELECTRIC PLC unit is designed to preservation as the preferential management protect the environment. For the disposal, subject and every staff of LS ELECTRIC use separate aluminum, iron and synthetic resin the reasonable endeavors for the pleasurably (cover) from the product as they are environmental preservation of the earth. reusable.



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Specifications in this instruction manual are subject to change without notice due to continuous products development and improvement.

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