Help For Data Transfer Tool

1 INTRODUCTION

The product enables functions, including writing package data or project data from a PC and reading package data or project data to a GOT, with the PC that the drawing software for GOT2000 series, GOT1000 series, GOT900 series, or GOT800 series is not installed.
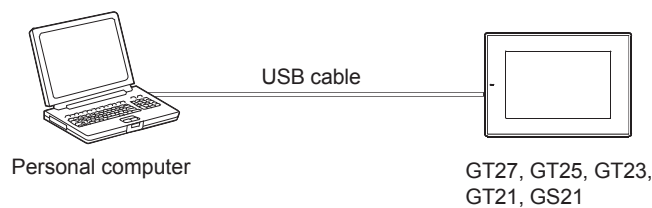
2 SYSTEM CONFIGURATION

Use the following cables for connecting the GOT with the PC.

(1) For GOT2000 series

(a) GOT direct connection

• USB cable

Personal computer   GT27, GT25, GT23, GT21, GS21

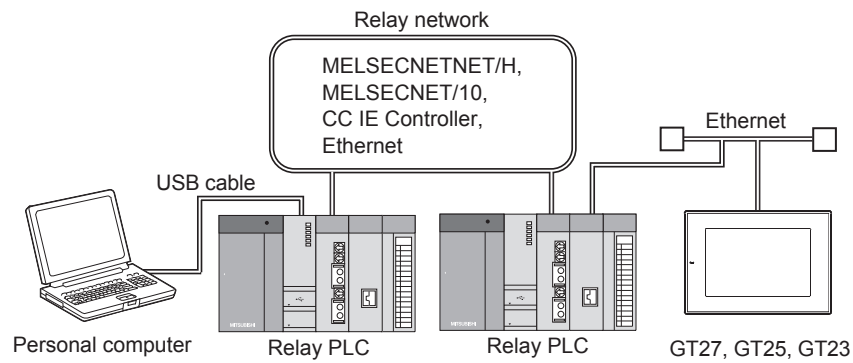| GOT	Product	Model	Manufacturer
GT27, GT25, GT23, GT21, GS21	USB cable	GT09-C20USB-5P (A ↔ mini B type)	Mitsubishi Electric System & Service Co., Ltd.
	USB cable	GT09-C30USB-5P (A ↔ mini B type)	Mitsubishi Electric System & Service Co., Ltd.

• Ethernet

Personal computer   GT27, GT25, GT23, GT2104-RTBD, GT2103-PMBD, GS21
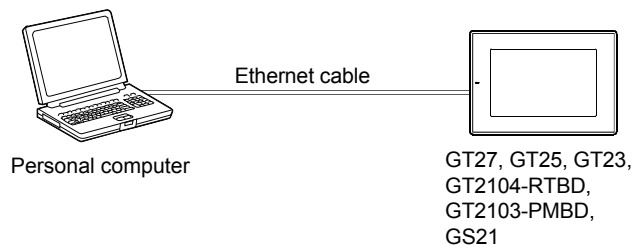
GOT	Product[*1]	Model	Manufacturer
GT27, GT25, GT23, GT2104-RTBD, GT2103-PMBD, GS21	Shielded twisted pair cable (STP) Unshielded twisted pair cable (UTP) Category 3, 4, and 5	-	-

*1   The destination connected with the twisted pair cable varies with the configuration of the applicable Ethernet network system.
Connect to the Ethernet module, hub, transceiver, wireless LAN adapter (NZ2WL-JPA, NZ2WL-JPS) or other system equipment corresponding to the applicable Ethernet network system.
Use cables, connectors, and hubs that meet the IEEE802.3 10BASE-T/100BASE-TX standard.
For target devices which a wireless LAN adapter can be connected and how to set a wireless LAN adapter, refer to the manual of a wireless LAN adapter to be used.
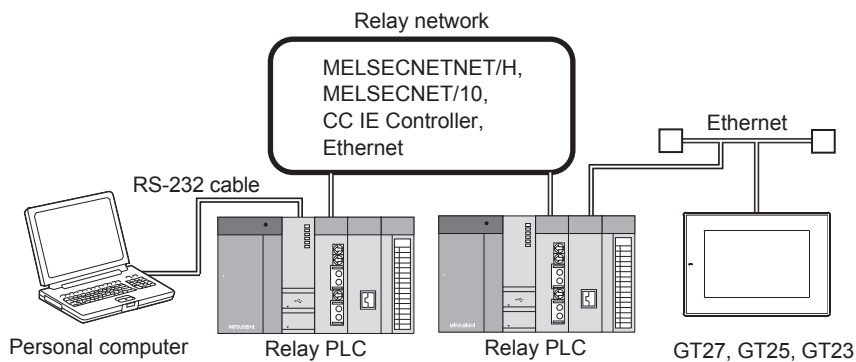
(b) Connection via programmable controllers
  • USB cable

Relay network
MELSECNETNET/H,
MELSECNET/10,
CC IE Controller,
Ethernet

USB cable

Ethernet

Personal computer   Relay PLC   Relay PLC   GT27, GT25, GT23

GOT	Product	Model	Manufacturer
GT27, GT25, GT23	USB cable	GT09-C20USB-5P (A ↔ mini B type)	Mitsubishi Electric System & Service Co., Ltd.
	USB cable	GT09-C30USB-5P (A ↔ mini B type)	Mitsubishi Electric System & Service Co., Ltd.

  • RS-232 cable

Relay network
MELSECNETNET/H,
MELSECNET/10,
CC IE Controller,
Ethernet

RS-232 cable

Ethernet

Personal computer   Relay PLC   Relay PLC   GT27, GT25, GT23

GOT	Product	Model	Manufacturer
GT27, GT25, GT23	RS-232 cable	GT01-C30R2-9S (9-pin female ↔ 9-pin female)	Mitsubishi Electric Corporation

- Ethernet (Ethernet port direct connection)

Relay network

MELSECNETNET/H,
MELSECNET/10,
CC IE Controller,
Ethernet

Ethernet cable

Personal computer | Relay PLC | Relay PLC | Ethernet | GT27, GT25, GT23

- Ethernet (Connection via a hub)

Relay network

MELSECNETNET/H,
MELSECNET/10,
CC IE Controller,
Ethernet

Ethernet | Hub | Ethernet

Ethernet cable

Personal computer | Relay PLC | Relay PLC | GT27, GT25, GT23
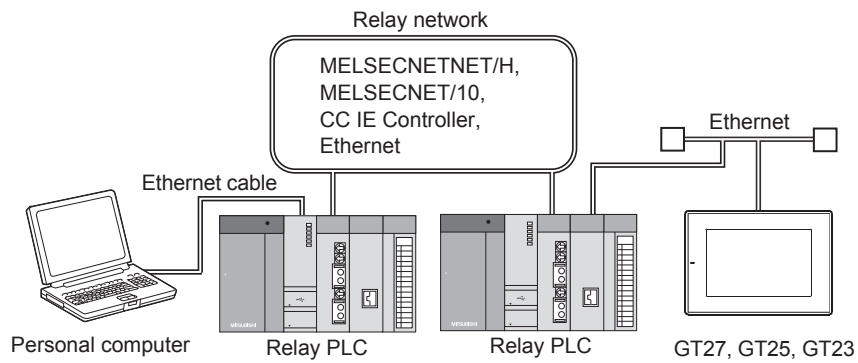
GOT	Product*1	Model	Manufacturer
GT27, GT25, GT23	Shielded twisted pair cable (STP) Unshielded twisted pair cable (UTP) Category 3, 4, and 5	-	-

*1 The destination connected with the twisted pair cable varies with the configuration of the applicable Ethernet network system.
Connect to the Ethernet module, hub, transceiver, wireless LAN adapter (NZ2WL-JPA, NZ2WL-JPS) or other system equipment corresponding to the applicable Ethernet network system.
Use cables, connectors, and hubs that meet the IEEE802.3 10BASE-T/100BASE-TX standard.
For target devices which a wireless LAN adapter can be connected and how to set a wireless LAN adapter, refer to the manual of a wireless LAN adapter to be used.

(2) For GOT1000 series

(a) USB cable

Personal computer   GT16, GT15. GT14, GT12, GT11, GT105□, GT104□

Personal computer   GT1030, GT1020

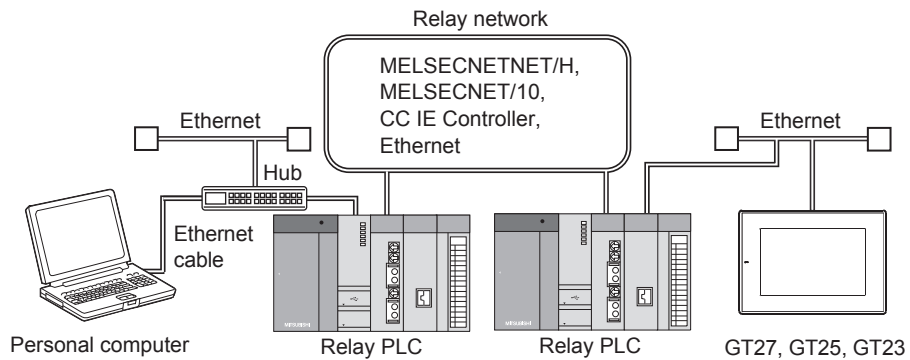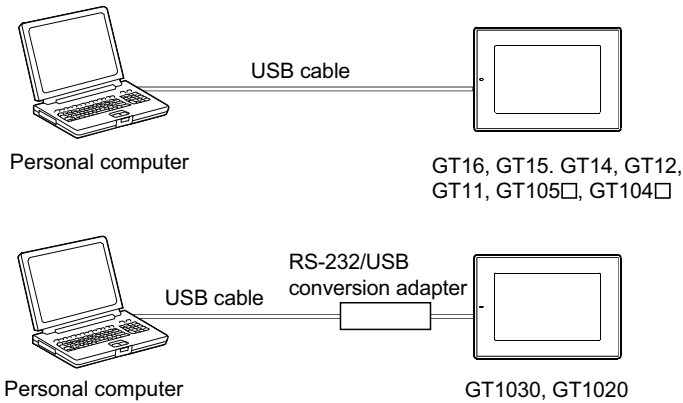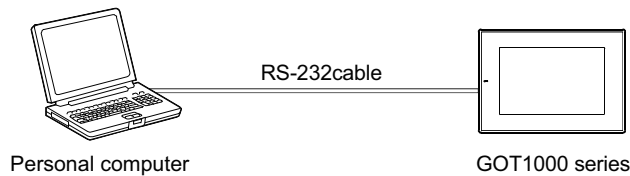| GOT	Product	Model	Manufacturer
GT16, GT15, GT14, GT12, GT11, GT105□, GT104□	USB cable	GT09-C20USB-5P (A ↔ mini B type)	Mitsubishi Electric System & Service Co., Ltd.
	USB cable	GT09-C30USB-5P (A ↔ mini B type)	Mitsubishi Electric System & Service Co., Ltd.
GT1030, GT1020	USB cable	GT09-C30USB-5P (A ↔ mini B type)[*1]	Mitsubishi Electric System & Service Co., Ltd.
	RS-232/USB conversion adapter	GT10-RS2TUSB-5S[*1]	Mitsubishi Electric Corporation

*1   Use GT09-C30USB-5P with GT10-RS2TUSB-5S.

(b) RS-232 cable

Personal computer   GOT1000 series

GOT	Product	Model	Manufacturer
GT16 (Excluding Handy GOT), GT15, GT14, GT12, GT11 (Excluding Handy GOT), GT105□, GT104□	RS-232 cable	GT01-C30R2-9S (9-pin female ↔ 9-pin female)	Mitsubishi Electric Corporation
Handy GOT, GT1030, GT1020	RS-232 cable	GT01-C30R2-6P (9-pin female ↔ 6-pin male)	Mitsubishi Electric Corporation

(c) Ethernet

Personal computer

Ethernet cable

HUB

GT16, GT15 + Ethernet communication unit,
GT1455-QTBDE, GT1450-QLBDE, GT12
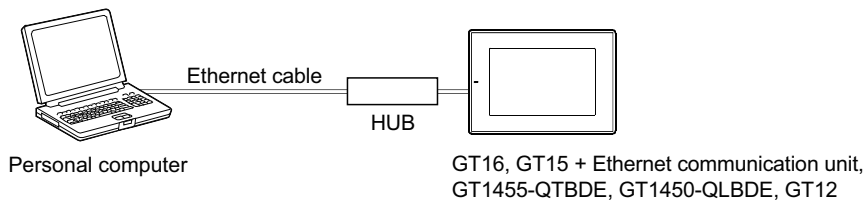
GOT	Product[*1]	Model	Manufacturer
GT16[*2], GT1455-QTBDE, GT1450-QLBDE, GT12	Shielded twisted pair cable (STP) Unshielded twisted pair cable (UTP) Category 3, 4, and 5	-	-
GT15	Ethernet communication unit	GT15-J7E71-100	Mitsubishi Electric Corporation
	Shielded twisted pair cable (STP) Unshielded twisted pair cable (UTP) Category 3, 4, and 5	-	-

*1　The destination connected with the twisted pair cable varies with the configuration of the applicable Ethernet network system.

　　Connect to the Ethernet module, hub, transceiver, or other system equipment corresponding to the applicable Ethernet network system.

　　Use cables, connectors, and hubs that meet the IEEE802.3 10BASE-T/100BASE-TX standard.

*2　When connecting GT16 of the function version A to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in a 10Mbps/100Mbps mixed environment.

　　For how to check the function version, refer to the following.

　　☞ GT16 User's Manual (Hardware)

(d) Modem

Personal computer

RS-232cable

Modem

Telephone circuit

Modem

RS-232cable

GOT1000 series

The personal computer built-in modem is not applicable.

Applicable RS-232 cable differs depending on a modem type.

For applicable modems and RS-232 cables, refer to Technical News GOT-A-0010 "List of Valid Devices Applicable for GOT1000 Series" separately available, or contact your local distributor.

(3) For GOT900 series

    (a) For GOT-A900 series

DOS/V PC (9-pin)   GOT-A900 series (D-sub 9-pin)

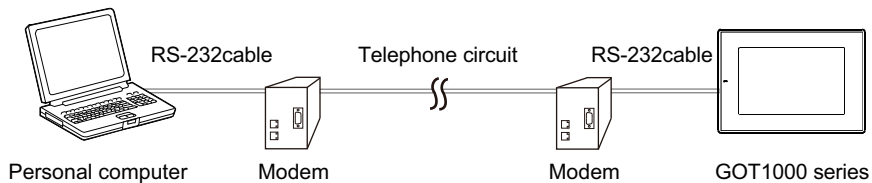| GOT	Product[2]	Model	Manufacturer
GOT-A900 series	RS-232 cable	AC30R2-9SS (9-pin ↔ 9-pin)	Mitsubishi Electric System & Service Co., Ltd.
	RS-232 cable	FX-232CAB-1 (9-pin ↔ 9-pin)	Mitsubishi Electric Corporation
	RS-232 cable	AC30R2-9P (9-pin ↔ 25-pin)[1]	Mitsubishi Electric System & Service Co., Ltd.
	RS-232 cable	F2-232CAB-1 (9-pin ↔ 25-pin)[1]	Mitsubishi Electric Corporation

    *1   A 9-25 pin converter (DIATREND D232J31 (Recommended Product)) is required.

    *2   To use a USB port with a personal computer, a USB serial adapter is required.

           For Windows Vista, use the following USB serial adapter.

Product	Model	Manufacturer
USB serial adapter	URS-04	PLANEX COMMUNICATIONS INC.

           For Windows XP, the above USB serial adapter and the USB serial adapter shown in "List of Valid Devices Applicable for GOT900 Series (T10-0028)"are available.

           Contact your local distributor if necessary.
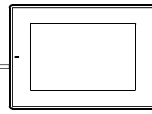
    *3   The user can make a RS-232 cable.

           For making RS-232 cables, refer to the following manual.

           ☞ GT Designer2 Version□ Operating Manual

(b) For GOT-F900 series

DOS/V PC (9-pin)   F940WGOT, F940GOT, F930GOT, F930GOT-K, F920GOT-K,
                                   ET-940, F940 Handy GOT (Including RH type) (D-sub 9-pin)

                                   F920 Handy GOT RH type (Mini-DIN 6-pin)

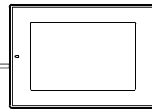| GOT	Product*1	Model	Manufacturer
F940WGOT, F940GOT, F930GOT, F930GOT-K, F920GOT-K, ET-940, F940 Handy GOT (Including RH type)	RS-232 cable	FX-232CAB-1 (9-pin ↔ 9-pin)	Mitsubishi Electric Corporation
F920 Handy GOT RH type	RS-232 cable	QC30R2	Mitsubishi Electric Corporation

*1   The user can make a RS-232 cable.
      For making RS-232 cables, refer to the following manual.

      ☞ GT Designer2 Version□ Operating Manual

(4) For GOT800 series

DOS/V PC (9-pin)   A870GOT, A810GOT (D-sub 25-pin)
                                   A85□GOT (D-sub 9-pin)

GOT	Product*2	Model	Manufacturer
A870GOT, A810GOT	RS-232 cable	AC30R2-9P (9-pin ↔ 25-pin) *1	Mitsubishi Electric System & Service Co., Ltd.
		F2-232CAB-1 (9-pin ↔ 25-pin) *1	Mitsubishi Electric Corporation
A85□GOT	RS-232 cable	AC30R2-9SS (9-pin ↔ 9-pin)	Mitsubishi Electric System & Service Co., Ltd.

*1   For A85□GOT, a 9-25-pin converter (DIATREND D232J31 (Recommended Product)) is required.
      When using an A8GOT-50SET option unit installation fitting, a 9-pin→25-pin conversion connector cannot be
      used for the A85□GOT.
*2   The user can make a RS-232 cable.
      For cables other than the cables above and making RS-232 cables, refer to the following manual.

      ☞ SW3NIW-A8GOTP Graphic Settings Software Package Operating Manual (Data Transmission/Debugging/
      Document Creation Manual)

3   OPERATING ENVIRONMENT

Item	Description
Model	Personal computer that Windows runs on.
OS (English, Simplified Chinese, Traditional Chinese, Korean, or German version)	• Microsoft Windows 8.1 Enterprise (32 bit, 64 bit)[*1*2*4*5*6] • Microsoft Windows 8.1 Pro (32 bit, 64 bit)[*1*2*4*5*6] • Microsoft Windows 8.1 (32 bit, 64 bit)[*1*2*4*5] • Microsoft Windows 8 Enterprise (32 bit, 64 bit)[*1*2*4*5*6] • Microsoft Windows 8 Pro (32 bit, 64 bit)[*1*2*4*5*6] • Microsoft Windows 8 (32 bit, 64 bit)[*1*2*4*5] • Microsoft Windows 7 Ultimate (32 bit, 64 bit)[*1*2*3*4] • Microsoft Windows 7 Enterprise (32 bit, 64 bit)[*1*2*3*4] • Microsoft Windows 7 Professional (32 bit, 64 bit)[*1*2*3*4] • Microsoft Windows 7 Home Premium (32 bit, 64 bit)[*1*2*3*4] • Microsoft Windows 7 Starter (32 bit)[*1*2] • Microsoft Windows Vista Ultimate (32 bit) Service Pack1 or later[*1*2] • Microsoft Windows Vista Enterprise (32 bit) Service Pack1 or later[*1*2] • Microsoft Windows Vista Business (32 bit) Service Pack1 or later[*1*2] • Microsoft Windows Vista Home Premium (32 bit) Service Pack1 or later[*1*2] • Microsoft Windows Vista Home Basic (32 bit) Service Pack1 or later[*1*2] • Microsoft Windows XP Professional (32 bit) Service Pack3[*1*2] • Microsoft Windows XP Home Edition (32 bit) Service Pack3[*1*2]
CPU	1GHz or more recommended
Memory	• For Windows 8.1 (64 bit), Windows 8 (64 bit), Windows 7 (64 bit): 2GB or more recommended • For Windows 8.1 (32 bit), Windows 8 (32 bit), Windows 7 (32 bit), Windows Vista (32 bit): 1GB or more recommended • For Windows XP: 512 MB or more recommended
Display	Resolution XGA (1024 × 768 dots) or more
Hard disk space	For installation : 750MB or more
Display color	High Color (65536 colors) or more
Others	The mouse, keyboard, printer, or DVD-ROM drive

*1   Administrator authority is required for installing and using the data transfer tool.

*2   The following functions are not supported.

• Activating the application with Windows compatibility mode

• Fast user switching

• Change your desktop themes (fonts)

• Remote desktop

• DPI setting other than the normal size (Windows XP, Windows Vista)

• Setting the size other than [Smaller - 100%] for the characters and images on the screen (For Windows 7, Windows 8, Windows 8.1)
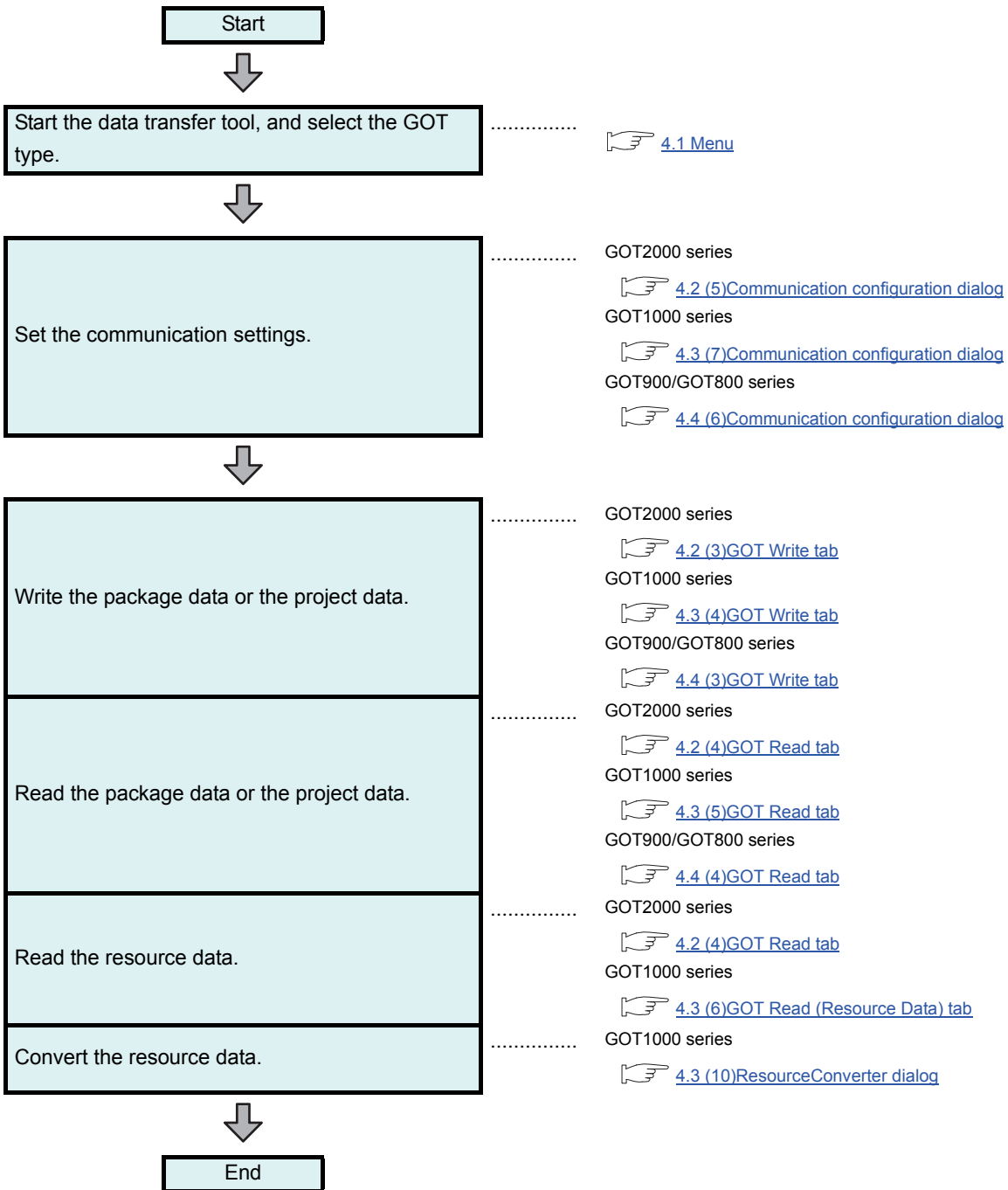
*3   Windows XP Mode is not supported.

*4   Windows Touch and Touch are not supported.

*5   Modern UI style is not supported.

*6   Hyper-V is not supported.

4   HOW TO USE DATA TRANSFER TOOL

The following shows how to use the data transfer tool.

Start

↓

Start the data transfer tool, and select the GOT type.

.... ☞ 4.1 Menu

↓

Set the communication settings.

....

GOT2000 series

☞ 4.2 (5)Communication configuration dialog

GOT1000 series

☞ 4.3 (7)Communication configuration dialog

GOT900/GOT800 series

☞ 4.4 (6)Communication configuration dialog

↓

Write the package data or the project data.

....

GOT2000 series

☞ 4.2 (3)GOT Write tab

GOT1000 series

☞ 4.3 (4)GOT Write tab

GOT900/GOT800 series

☞ 4.4 (3)GOT Write tab

Read the package data or the project data.

....

GOT2000 series

☞ 4.2 (4)GOT Read tab

GOT1000 series

☞ 4.3 (5)GOT Read tab

GOT900/GOT800 series

☞ 4.4 (4)GOT Read tab

Read the resource data.

....

GOT2000 series

☞ 4.2 (4)GOT Read tab

GOT1000 series

☞ 4.3 (6)GOT Read (Resource Data) tab

Convert the resource data.

....

GOT1000 series

☞ 4.3 (10)ResourceConverter dialog

↓
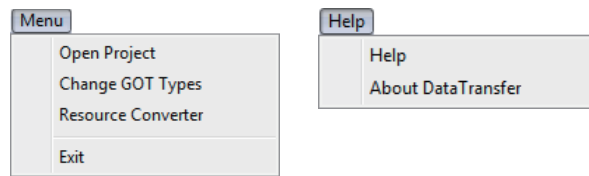
End

4.1　Menu

(1)　Start Menu

Item	Description
Selection of GOT type	Select the GOT to be used for the data transfer.
	The opening project data format is selected for the GOT1000 series.
GOT Write	Click the button when writing the package data or the project data.
	After clicking the button, the [Open Project] dialog is displayed, and then select the file to be written.
	After selecting the file, the screen for writing is displayed.
GOT Read	Click the button when reading the package data or the project data.
	After clicking the button, the screen for reading is displayed.
Exit	Ends the data transfer tool.

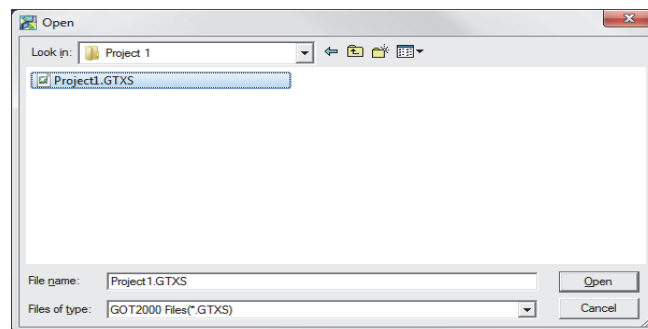## 4.2 Data Transfer Tool for GOT2000 Series

(1) Composition of menu

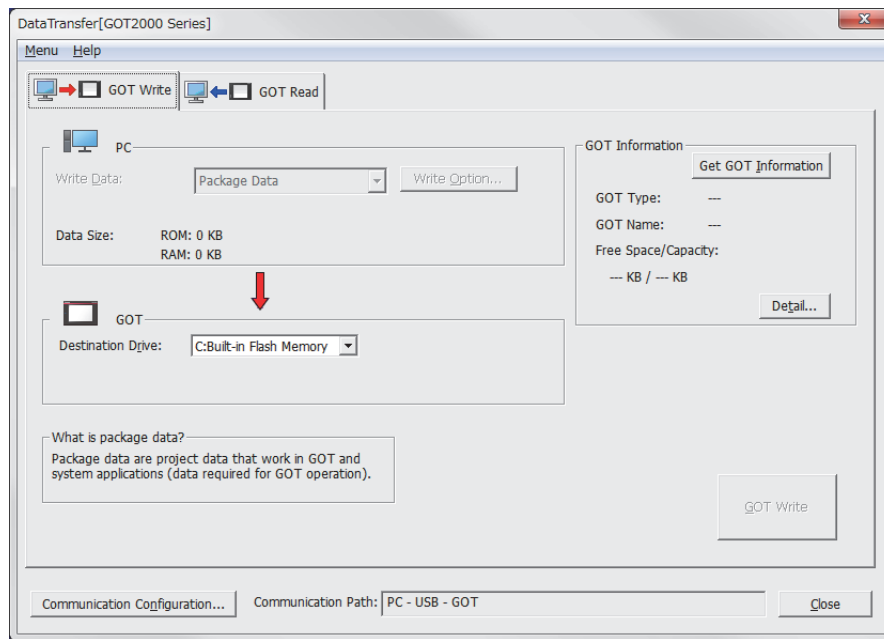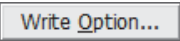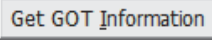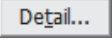| Item		Description
Menu	Open Project	Opens the project data.
	Change GOT Types	The start menu opens.
	Resource Converter	The [ResourceConverter] dialog opens.
	Exit	Ends the data transfer tool.
Help	Help	Displays the help for the data transfer tool.
	About DataTransfer	Version information on the data transfer tool is displayed.

(2) Opening GT Designer3 project (GTXS format)

Select [Open Project] from the menu to display the [Open] dialog.

Select the project and click the [Open] button to open the selected project.

(3) GOT Write tab

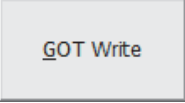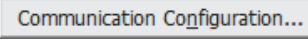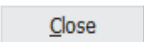| Item	Description
Write Data	Type of the data to be written to the GOT The type is fixed with [Package Data].
Write Option...	The [Write Option] dialog is opened. ☞ 4.2 (6)Write Option dialog
Data Size	Displays the capacity of the package data.
Destination Drive	Select the drive that package data is written.
Get GOT Information	Reads the drive information from the specified GOT's drive.
Detail...	Displays the [GOT Information - Detail] dialog. ☞ 4.2 (7)GOT Information - Detail dialog
GOT Write	Writes the project data. (Delete the folder that the project data was written on the GOT in the past, and then write the project data.)
Communication Configuration...	The [Communication configuration] dialog is opened. ☞ 4.2 (5)Communication configuration dialog
Communication Path	Communication route between the personal computer and the GOT
Close	Ends the data transfer tool.

Point **Changing the project data or the GOT type**

Select [Menu] → [Open Project]/[Change GOT Types] to change the project data or the GOT type.

(4) GOT Read tab
  • For package data
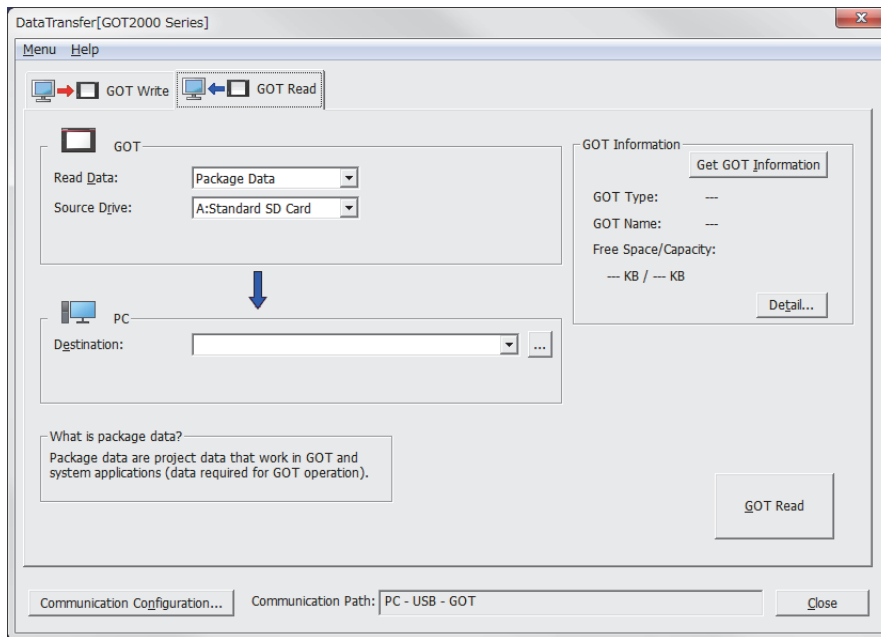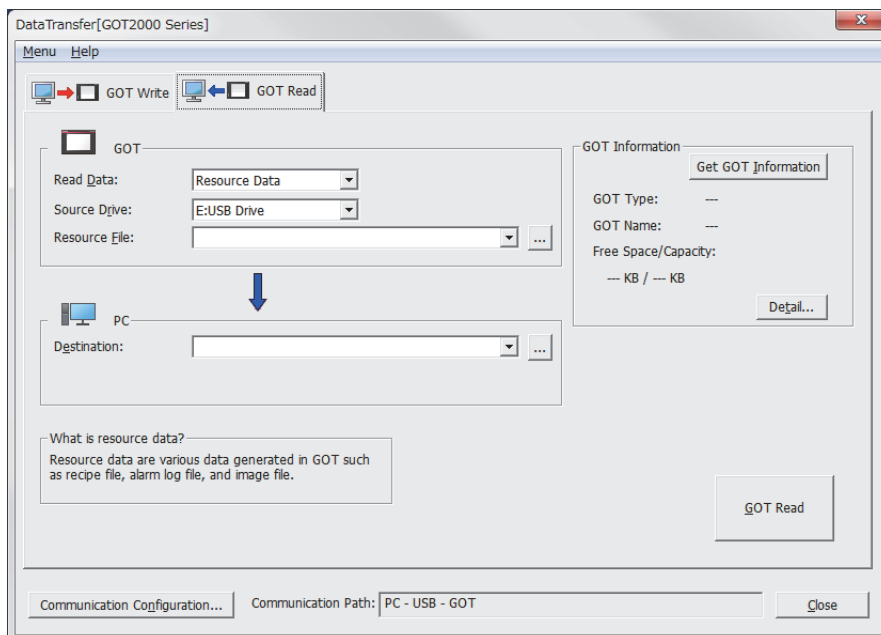

  • For resource data

Item	Description
Read Data	Select the type of the data that is read from the GOT.
Source Drive	Select the drive that the data is read. When selecting an invalid drive for the GOT and clicking the [Info Reception] button, an error message is displayed.
Resource File	Displays the [Path Setting] dialog and specify the path of the resource file to be read. ☞ 4.2 (10)Path Setting dialog
Destination	Set the storage location for the read data. (Up to five historical data specified in the past are held.)
Get GOT Information	Reads the drive information from the specified GOT's drive.
Detail...	Displays the [GPT Information - Detail] dialog. ☞ 4.2 (7)GOT Information - Detail dialog
GOT Read	Reads the data from the specified drive. When the storage capacity for the read data is insufficient, the reading is stopped.
Communication Configuration...	The [Communication configuration] dialog is opened. ☞ 4.2 (5)Communication configuration dialog
Communication Path	Communication route between the personal computer and the GOT
Close	Ends the data transfer tool.
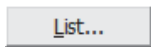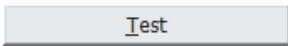
(5) Communication configuration dialog

(a) GOT direct connection

• For USB
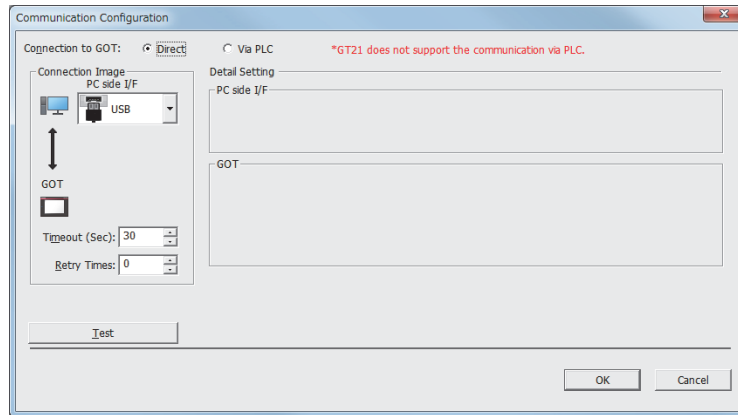
• For Ethernet

Item		Description
Connection to GOT		Select the connection method between the PC and the GOT from [Direct] or [Via PLC].
Connection Image	PC side I/F	Select the PC side interface that connects with the GOT. Setting range: USB, Ethernet
	Timeout	Set the timeout time for the initial communication between the data transfer tool and the GOT. Setting range: 1 to 9999 seconds
	Retry Times	Set the retry time at the timeout. Setting range: 1 to 5 times
GOT	GOT IP Address	Set GOT IP address. (Invalid when [Ethernet] is not selected as the PC side interface.)
	Peripheral S/W Communication Port No.	Set the port No. Setting range: 1024 to 65534 (Invalid when [Ethernet] is not selected as the PC side interface.)
	Select from the setting/list:	Select the GOT IP address from the registered name. (Invalid when [Ethernet] is not selected or is not registered as the PC side interface.)
	List...	Opens the [GOT Setting List] dialog. Set the GOT name and IP address for selecting the GOT IP address with [Select from the setting/list]. (Invalid when [Ethernet] is not selected as the PC side interface.) ☞ 4.2 (8)GOT Setting List dialog
Test		Starts the communication test.

16

Item	Description
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected.
Cancel	The [Communication configuration] dialog is shut annulling the set content when the setting is changed.

(b) Connection via programmable controllers
- For RS232

- For USB
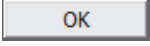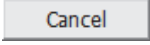
- For Ethernet (CPU module connection)

- For Ethernet (Ethernet interface module)

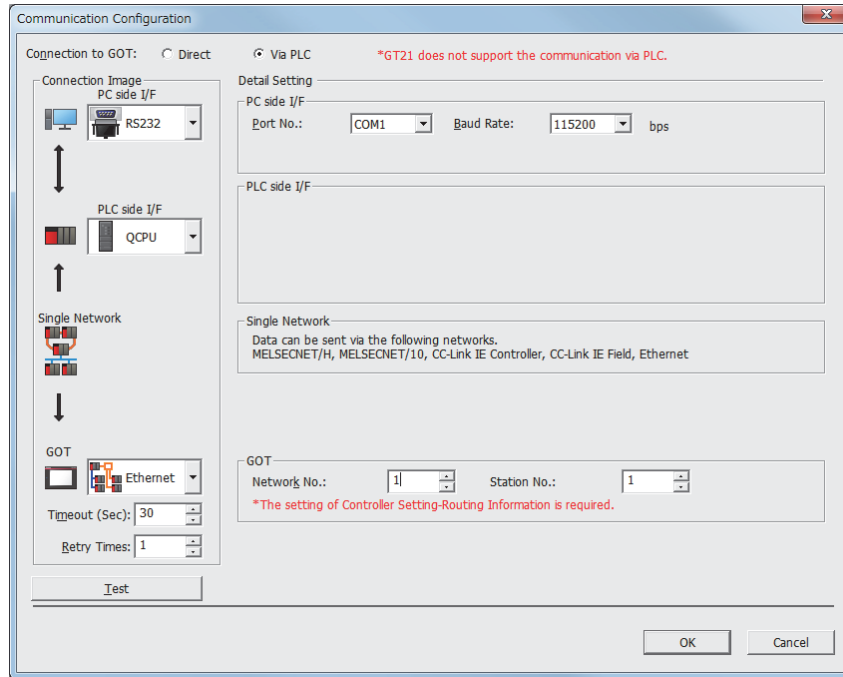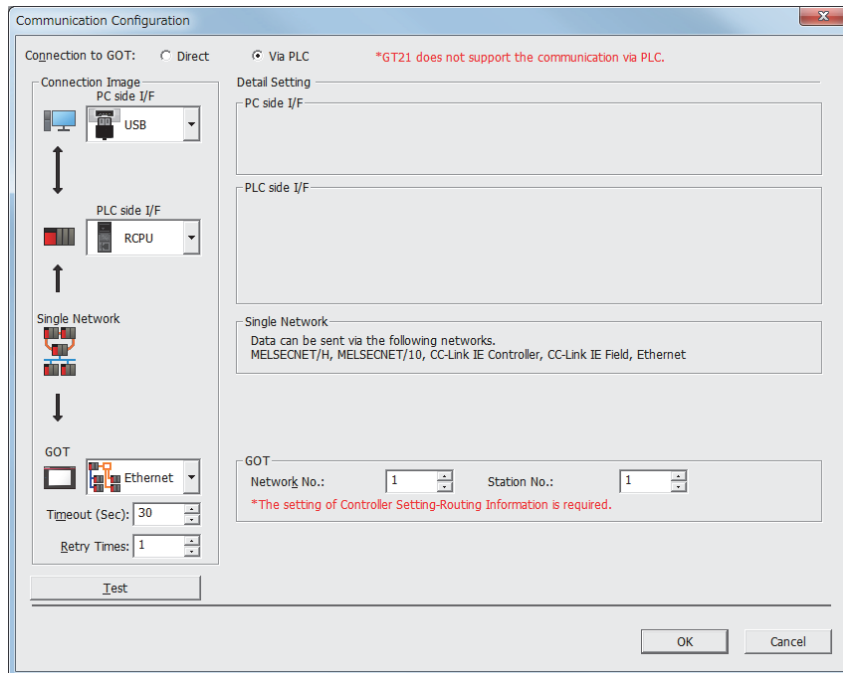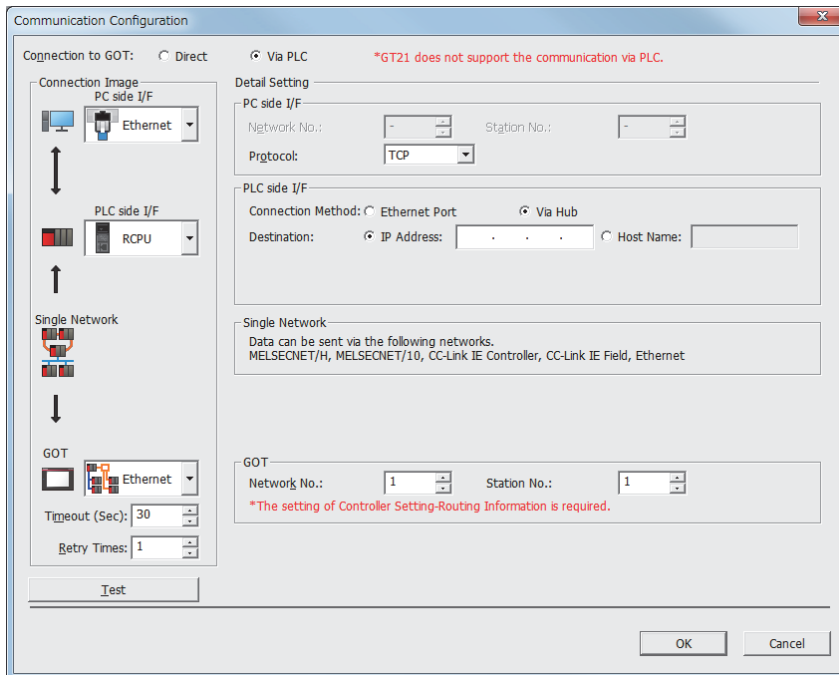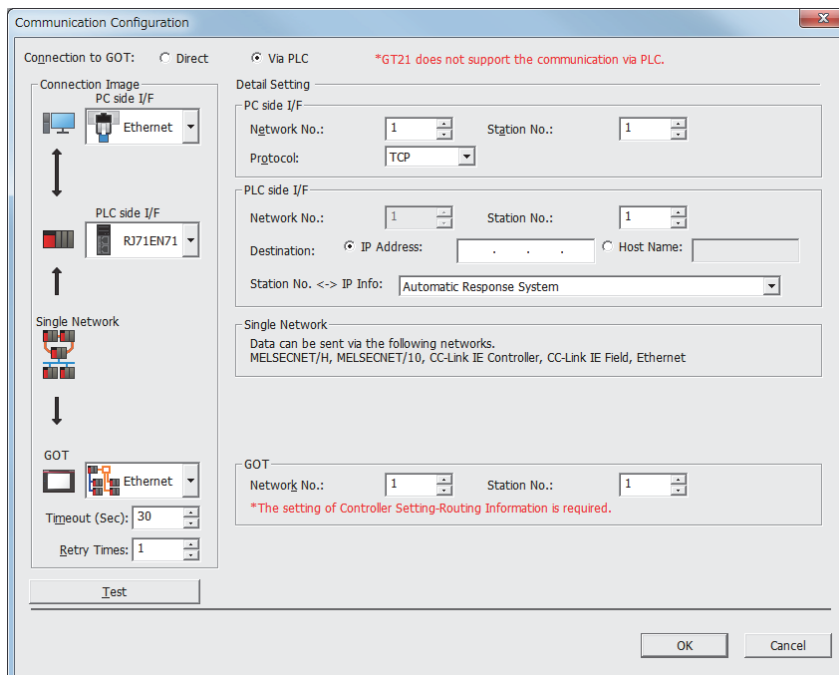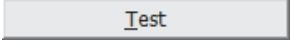| Item		Description
Connection to GOT		Select the connection method between the PC and the GOT from [Direct] or [Via PLC].
Connection Image	PC side I/F	Select the PC side interface that connects with the GOT.
	PLC side I/F	Select the CPU module or Ethernet interface module to be routed.
	GOT	Routed network which the GOT is connected
	Timeout	Set the timeout time for the initial communication between the data transfer tool and the GOT. Setting range: 1 to 9999 seconds
	Retry Times	Set the retry time at the timeout. Setting range: 1 to 5 times
PC side I/F	Port No.	Set the RS232 communication port of the PC. The setting range varies according to the PC to be used. (Invalid when [RS232] is not selected as the PC side interface.)
	Baud Rate	Set the transmission speed between the PC and the programmable controller. Setting range: 115200, 57600, 38400, 19200, 9600 (Invalid when [RS232] is not selected as the PC side interface.)
	Network No.	Set the network No. of the Ethernet network to which the PC is connected. Setting range: 1 to 239 ([Ethernet] on the PC side I / F, in the PLC I / F, it is enabled only when you select the [RJ71EN71], [QJ71E71] or [LJ71E71].)
	Starion No.	Set the station No. of the PC. To connect the PC and the Ethernet interface module, set the station No. which does not overlap in the same network. Setting range: 0 to 120 ([Ethernet] on the PC side I / F, in the PLC I / F, it is enabled only when you select the [RJ71EN71], [QJ71E71] or [LJ71E71].)
	Protocol	Select the communication protocol to be used in the communication between the PC and the programmable controller. Setting range: TCP, UDP
PLC side I/F	Connection Method	Set the connection method between the PC and the programmable controller. Setting range: Ethernet port direct connection, connection via a hub (Valid only when selecting [RCPU], [QCPU], or [LCPU] as the connection method.)
	Destination	Set the IP address or the host name of the destination programmable controller. • IP Addree Specify the destination programmable controller by the IP address. After the selection, set the IP address of the destination programmable controller. • Host name Specify the destination programmable controller by the host name. Up to 64 characters can be used to set the host name. (Valid only when selecting [Via Hub] as the connection method when the destination is [RCPU], [QCPU] or [LCPU].)
	Network No.	Network No. of PC side I / F is displayed.
	Station No.	Set the station No. of the programmable controller. Setting range: 1 to 120
	Station No.<->IP Info	In the communication between the destination programmable controller and other programmable controllers, set the method to relate the network No., the station No., and the IP address of the destination programmable controller of the communication. Set this item according to the network parameter of the destination programmable controller. Setting range: Automatic Response System , IP Address Computation/Table Conversion/Combination System
GOT	Network No.	Set the network No. of the network to which the GOT is connected. Setting range: 1 to 239
	Station No.	Set the station No. of the GOT. Setting range: 1 to 120

Item	Description
Test	Starts the communication test.
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected.
Cancel	The [Communication configuration] dialog is shut annulling the set content when the setting is changed.

Point
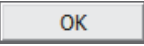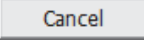
Via PLC (Ethernet) Notes on connection

It is necessary to set the sequencer to go through.
Configuration details, refer to the GOT2000 Series Connection Manual (Mitsubishi Products).

(6) Write Option dialog
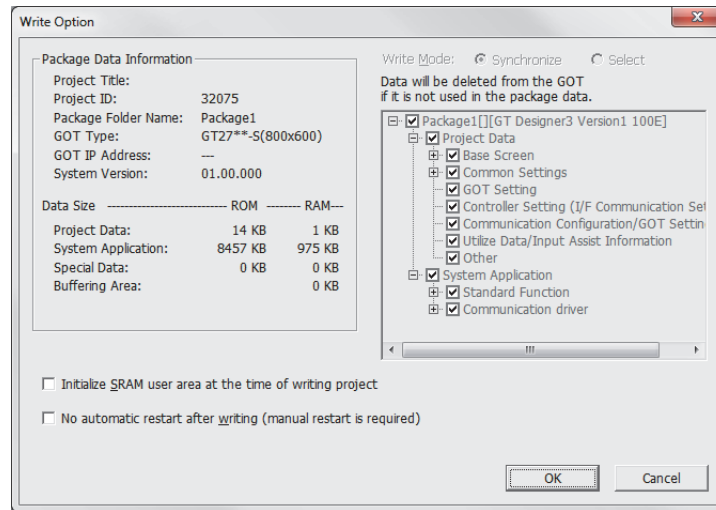
Item	Description
Initialize SRAM user area at the time of writing project	Initializes the SRAM user area when the package data is written to the GOT.
No automatic restart after writing (manual restart is required)	Select this item not to restart the GOT automatically after the package data is written. When this item is selected, the GOT needs to be restarted manually after writing the package data.
Write Mode	The mode is fixed to synchronization.
Package data tree	Displays the data which is included in the package data in a tree. When [Select] is selected in [Write Mode], data can be added or deleted.
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected.
Cancel	Cancels the changed data and closes the [Write Option] dialog when the setting is changed.
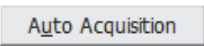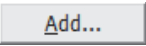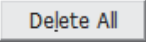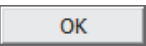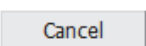
(7) GOT Information - Detail dialog
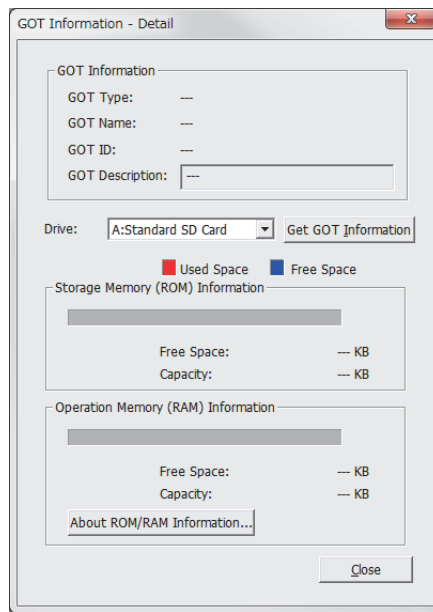
Item	Description
GOT Type	GOT type
GOT Name	Name to identify the GOT
GOT ID	No. to identify the GOT
GOT Description	Detail description of the GOT
Drive	Select the drive of the GOT to display the detail information.
Get GOT Information	Acquires the information such as the GOT type or free space of the drive from the GOT.
Storage Memory (ROM) Information	The free space and the total space of the drive selected in [Drive].
Operation Memory (RAM) Information	The free space and the total space of the operation memory (RAM) of the GOT.
About ROM/RAM Information...	Displays the GOT RAM information.
Close	Closes the [GOT Information - Detail] dialog.

(8) GOT Setting List dialog
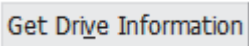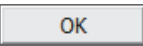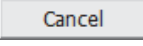
Item	Description
Auto Acquisition	Acquires the GOT identification information via the Ethernet automatically from the GOT on the same network as the personal computer.
GOT identification information list	List of the GOT identification information saved in a project. The information can be added, edited, or deleted with the operation button.
Add...	Adds the GOT individual information in the list of the GOT identification information. Input the GOT individual information in the [GOT Setting] dialog. ☞ 4.2 (8)GOT Setting List dialog
Edit...	Edits the GOT identification information which is being selected in the list of the GOT identification information. Input the GOT individual information in the [GOT Setting] dialog. ☞ 4.2 (8)GOT Setting List dialog
Delete	Deletes the GOT identification information which is being selected in the list of the GOT setting.
Delete All	Deletes all the GOT identification information registered to a project.
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected. (Valid only when changing settings.)
Cancel	The set content is annulled when the setting is changed, and the dialog is closing.

(9) GOT Setting dialog

Item	Description
GOT ID	Set the No. to identify the GOT. Setting range: 0 to 32767 When 0 is selected, GOT ID is not used.
GOT Name	Set the name to identify the GOT. Up 32 characters can be used for [GOT Name].
Detailed Description	Write the description of the GOT. Up 512 characters can be used for [Detailed Description]. A new line cannot be used in a sentence.
GOT Type	Set the GOT type. Setting range: GT27**-X(1024 × 768), GT27**-S(800 × 600), GT27**-V(640 × 480), GT2705-V(640 × 480), GT25**-S(800 × 600), GT25**-V(640 × 480), GT23**-V(640 × 480), GT2104-R(480 × 272), GT2103-P(320 × 128), GS21**-W(800 × 480)
GOT IP Address	Set GOT IP address. Setting range: 0.0.0.0 to 255.255.255.255
I/F	Select a connecting means. Setting range: Standard Ethernet, Wireless LAN
Peripheral S/W Communication Port No.	Set the Peripheral Software communication port No. (Setting range: 1024 to 65534)
Subnet Mask	Set the subnet mask of the GOT. Setting range: 0.0.0.0 to 255.255.255.255
Default Gateway	Set the default gateway of the GOT. Setting range: 0.0.0.0 to 255.255.255.255
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected.
Cancel	Closes the [GOT Setting] dialog.

(10) Path Setting dialog
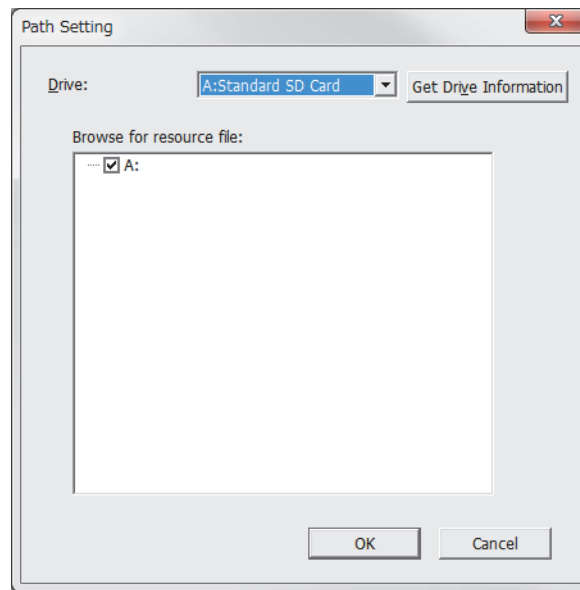
Item	Description
Drive	Select the read source drive.
Get Drive Information	Acquires the drive information of the read source drive.
Browse for resource file	Displays the file configuration of the read source drive in a tree. Select the resource file to be read from the tree.
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected.
Cancel	Closes the [Path Setting] dialog.

(11) ResourceConverter dialog

When converting the resource data, select [Menu] → [ResourceConverter] from the menu.

This function is only available for the GOT2000 series and GOT1000 series.
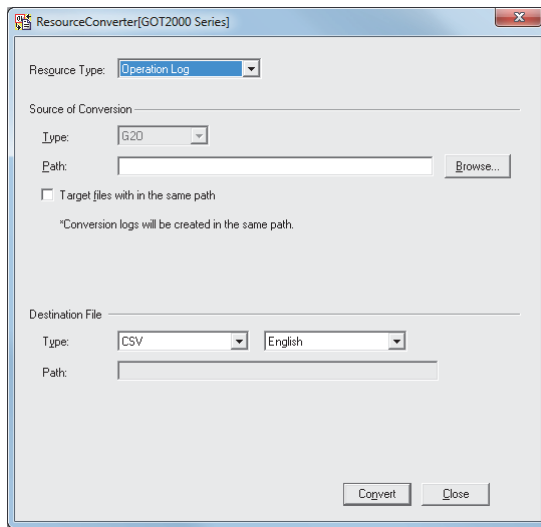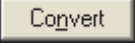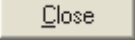
For Operation Log

For Alarm

Item	Description		
Resource Type	Select the resource type (Recipe, Operation Log, Logging, or Alarm) to be converted.		
Source of Conversion	Set the conversion source file.		
	Type	Select the type of the conversion source file. The type of the selectable file varies according to the resource data type selected with [Resource Type]. For recipe :CSV, Unicode Text, G2P For operation log :G2O For logging :G2L For alarm :G2A	
	Path	Specify the path of the conversion source file. The save destination path can be set by the [Browse] button also.	
	Target files with in the same path	If the checkbox is checked, all the files in the same path (only selected files in [Type]) can be targeted. When executing a file conversion with this checkbox checked, the conversion log is created automatically for the specified path.With the conversion log, the full path of the converted file, the conversion result (OK or NG), and the file creation date and time can be checked.	
	Project Data (where log file is created)	Set here when [Alarm] is selected in [Resource Type]. Select the format of the project data and set the project data which is used to create the alarm log file. The save destination path can be set by the [Browse] button also.	

Item	Description		
Destination File	Set the converted file.		
	Type	Select the type of the converted file. The type of the selectable file varies according to the resource data type selected with [Resource Type]. For recipe :CSV, Unicode Text, G2P For operation log :CSV, Unicode Text For logging :CSV, Unicode Text For alarm :CSV, Unicode Text When selecting [Operation Log] in [Resource Type], select the language to be used in the converted file. The selectable language varies according to the type of the converted file. CSV :Japanese or English Unicode Text :Japanese, English, Chinese(Simplified), Chinese(Traditional), or Korean	
	Path	Displays the output destination (the same path as that of the converted file) of the converted file.	
	File Conversion Language	Set here when [Alarm] is selected in [Resource Type]. • [Comment Column No. (User Alarm)] : Set the comment column No. which is used to convert an alarm log file (user alarm). (1 to 30) • [Language (System Alarm)] : Select a language of the converted file when converting an alarm log file (system alarm). The selectable language varies according to the type of the converted file. CSV : Japanese or English Unicode Text : Japanese, English, Chinese (Simplified), Chinese (Traditional), or Korean	
Con̲vert	Converts the source file.		
C̲lose	Closes the [ResourceConverter] dialog.		

Point

(1) Precautions on converting advanced recipe file
When converting a Unicode Text file or CSV file to a G2P file, the original G2P file before being converted to the target Unicode Text file or CSV file is required.
Store the original G2P file in the folder with the same path as the Unicode Text file or CSV file of the conversion source file.

(2) Precautions on converting alarm log file
When converting an alarm log file, the project data which is used to create the alarm log file is required.
When there is no project data, read one from the GOT.

4.3　Data Transfer Tool for GOT1000 Series

(1)　Composition of menu
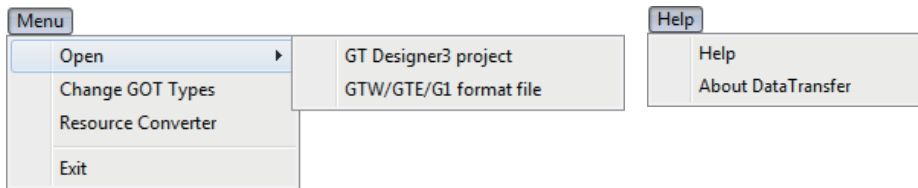
Item			Description
Menu	Open	GT Designer3 project	Format of the project registered in the work space.
		GTW/GTE/G1 format file	.GTW : Compressed format of GT Designer3 project. .GTE : Format of the project created by GT Designer2. .G1　: Format of the project written to the GOT or CF card.
	Change GOT Types		The start menu opens.
	Resource Converter		The [ResourceConverter] dialog opens.
	Exit		Ends the data transfer tool.
Help	Help		Displays the help for the data transfer tool.
	About DataTransfer		Version information on the data transfer tool is displayed.

(2) Opening GT Designer3 project

Select [Project] → [Open] from the menu to display the [Open Project] dialog.

Select the project to be opened in [Workspace/Project List]. Click the [Open] button to open the selected project.
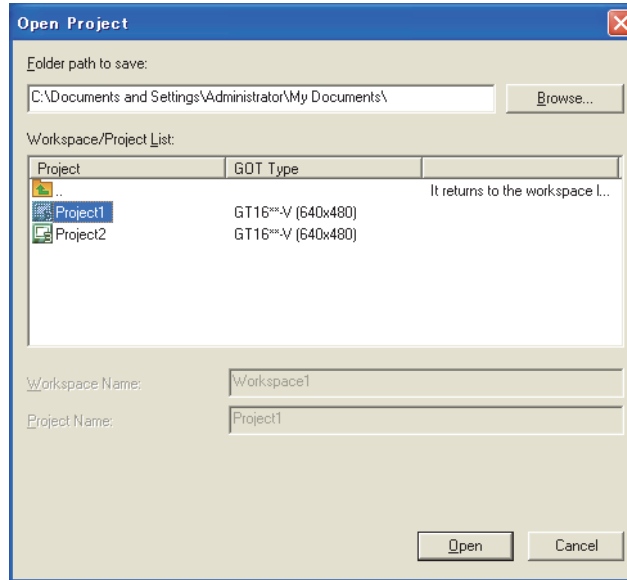
Item	Description
Folder path to save	Enter the path of the location where the workspace is stored. The save destination path can be set by the [Browse] button also. Up to 200 characters can be entered.
Workspace/Project List	Displays the workspace or project existing in the same path entered for [Folder path to save]. Double-click the workspace to be opened to display projects stored in the workspace. Select the project to be opened.
Workspace Name	Displays the workspace name where the project selected in [Workspace/Project List] is stored.
Project Name	Displays the project name selected in [Workspace/Project List].

(3) Reading compressed file (GTW format)/GT Designer2 project (GTE/G1 format)
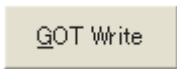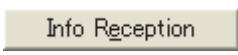
Select [Open] → [GTW/GTE/G1 format file] from the menu to display the [Open] dialog.

Select a file format (GTW, GTE, or G1) of a project to be opened in [Files of type], and select the project. Then, click the [Open] button to open the selected project.

(4) GOT Write tab

Item	Description
Destination Drive	Select the drive that project data is written. For GT16, GT15, GT14, and GT12, the drive that project data is written can be selected. For GT11 and GT10, the drive is fixed with [C:Built-in Flash Memory].
Folder	Displays the folder name that the project data is stored.
Boot Drive(Project Data)	Displays the drive that the project data is started. (Displays the drive name set for [Destination Drive].)
Not auto reboot downloaded (need manual reboot)	Select this item not to restart the GOT automatically after the project data is written.
Transfer size	Displays the capacity of the project data.
GOT RAM required size	Displays the total capacity of the buffering area to be used for functions, including the advanced alarm.
Drive information	Displays the user area size, empty area size, and memory meter.
GOT RAM information	Displays the user area size and empty area size.
GOT Write	Writes the project data. (Delete the folder that the project data was written on the GOT in the past, and then write the project data.)
Communication Configuration...	The [Communication configuration] dialog is opened. ☞ (7) Communication configuration dialog
Info Reception	Reads the drive information from the specified GOT's drive.
Exit	Ends the data transfer tool.
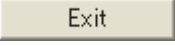
Point **Changing the project data or the GOT type**

Select [Menu] → [Open/[Change GOT Types] to change the project data or the GOT type.
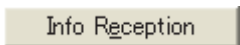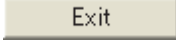
(5) GOT Read tab

Item	Description
Source Drive	Select the drive that the project data is read. When selecting an invalid drive for the GOT and clicking the [Info Reception] button, an error message is displayed.
Password	When setting the password for datatransfer or utility start, enter the password. The entered password is displayed as "*".
Destination	Set the storage location for the read project data. (Use the ⬚ button so that the storage location is easily specified.) (Up to five historical data specified in the past are held.) When selecting [DataTransfer] set as the default, the project data is stored in the location that the data transfer tool is installed (the location that Data Transfer.exe exists). The project data is stored as G1PRJCT.G1.
Drive information	Displays the user area size, empty area size, and memory meter.
GOT RAM information	Displays the user area size and empty area size.
GOT Read	Reads the project data from the specified drive. When the storage capacity for the read project data is insufficient, the reading is stopped.
Communication Configuration...	The [Communication configuration] dialog is opened. ☞ (7) Communication configuration dialog
Info Reception	Reads the drive information from the specified GOT's drive.
Exit	Ends the data transfer tool.

(6) GOT Read (Resource Data) tab

Item	Description
Resource data display tree	Displays the resource data configuration tree after the information of the specified drive is obtained. Right-click the mouse to enable [Select ALL] or [Unselect All].
Source Drive	Select the drive from which the resource data will be read.
Destination	Set the storage destination of the read resource data. (When the ![icon] button is used, the storage destination can be easily specified.) (Up to five past specified destinations are held.)
Drive information	Displays memory size, empty area size, and memory meter of the selected drive.
GOT RAM information	Displays the user area size and empty area size.
GOT Read	Click this button to read the item, which is checked in the Resource data display tree, from the specified drive. Reading is interrupted if the read destination has run out of space.
Communication Configuration...	The [Communication configuration] dialog is opened. ☞ (7) Communication configuration dialog
Info Reception	Click this button to read the drive information from the specified GOT drive. Note that when the drive invalid for the target GOT is specified in Drive name, an error is displayed when the [Info Reception] button is clicked, and the information cannot be obtained.
Exit	Ends the data transfer tool.

(7) Communication configuration dialog

RS232
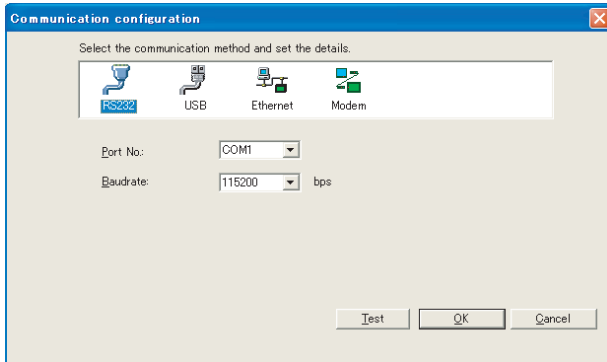
USB
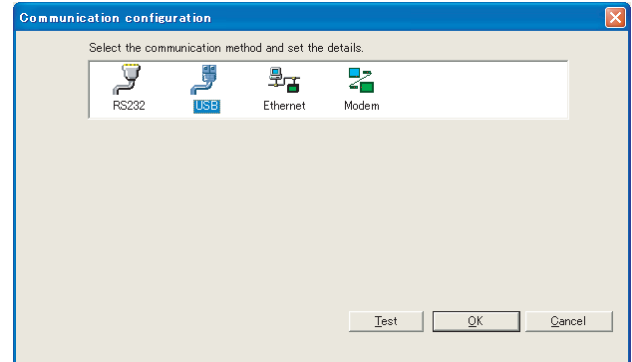
Ethernet
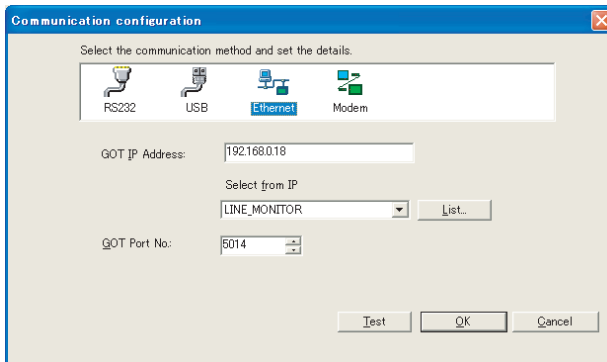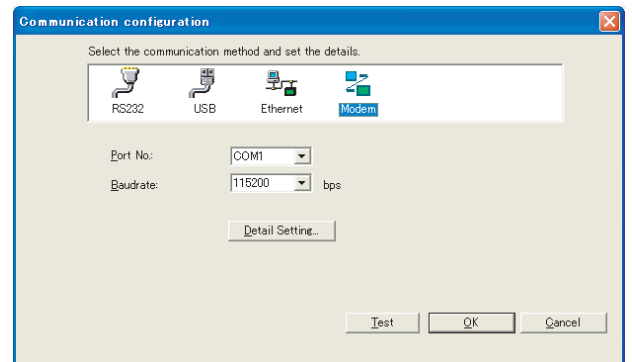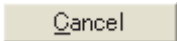
Modem

Item	Description
Connection method	Select the connection method between the PC and the GOT from among [RS232], [USB], [Ethernet] (GT16, GT15, GT1455-QTBDE, GT1450-QLBDE, and GT12 only), or [Modem].
Port No.	Select the PC side port that connects with the GOT. The valid communication port numbers are displayed. (COM1 to COM63) (Valid only when selecting [RS232], or [Modem] as the connection method.)
Baudrate	Set the transmission speed between the PC and the GOT. Set the transmission speed suitable for the PC. (Valid only when selecting [RS232] or [Modem] as the connection method.)
Detail Setting…	Opens the [Detail Setting] dialog. (Valid only when selecting [Modem] as the connection method.)
GOT IP Address	Set GOT IP address. (Valid only when selecting [Ethernet] as the connection method.)
Select from IP	Select the GOT IP address from the IP label. (Invalid when [Ethernet] is not selected or the IP label is not registered.)
List	Opens the [IP Label List] dialog. Set the IP label and IP address for selecting the GOT IP address with [Select from IP Label]. (Valid only when selecting [Ethernet] as the connection method.)
GOT Port No.	Set the GOT port No. (Setting range: 1024 to 65534) (Valid only when selecting [Ethernet] as the connection method.)
Test	When selecting [Ethernet]: Opens the [Test] dialog. When selecting [RS232] or [USB] or [Modem]: Starts the communication test.
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected. (Valid only when changing settings.)
Cancel	The [Communication configuration] dialog is shut annulling the set content when the setting is changed.
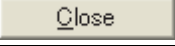
(a) Detail setting
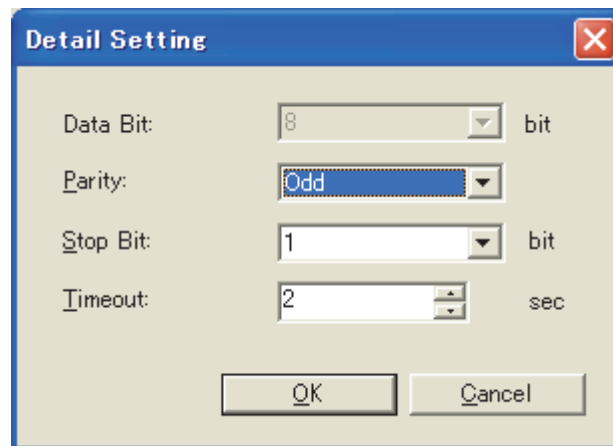
Item	Description
Data Bit	Displays the data length. The setting is fixed to 8 bits.
Parity	Set the parity. Setting range: Odd, Even, None
Stop Bit	Set the stop bit. Setting range: 1 bit, 2 bits
Timeout	Set the timeout time for the initial communication between the data transfer tool and the GOT. Setting range: 2 to 90 seconds
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected. (Valid only when changing settings.)
Cancel	Cancels the changed data and closes the [Detail Setting] dialog when the setting is changed.
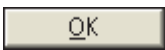
(8) Test dialog
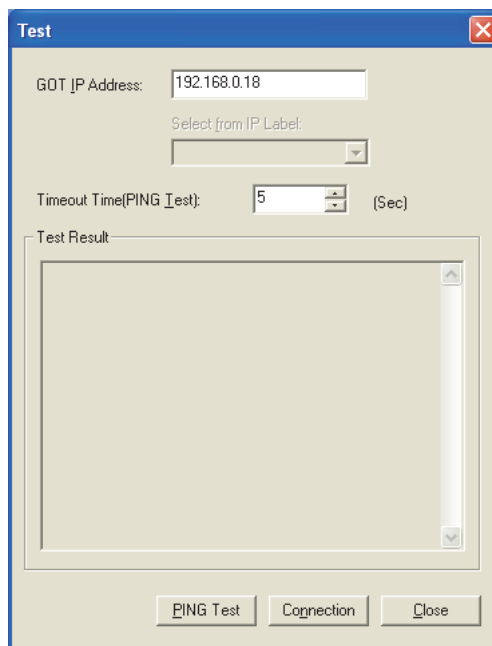
Item	Description
GOT IP Address	Set the GOT IP address to be communicated. (The default is the GOT IP address set in the [Communication configuration] dialog.)
Select from IP Label	Select the GOT IP address from the [IP label].
Timeout Time(PING Test)	Specify the timeout time for the PING test.
Test Result	Displays the specified GOT IP address, and the results of [PING Test] or [Connection].
PING Test	Runs the ping command to the specified GOT IP address. (When clicking the PING Test button, the previous result is cleared.)
Connection	Checks if the specified GOT IP address is the IP address of the GOT1000 series. (When clicking the Connection button, the previous result is cleared.)
Close	Closes the [Test] dialog.

(9)   IP Label List dialog
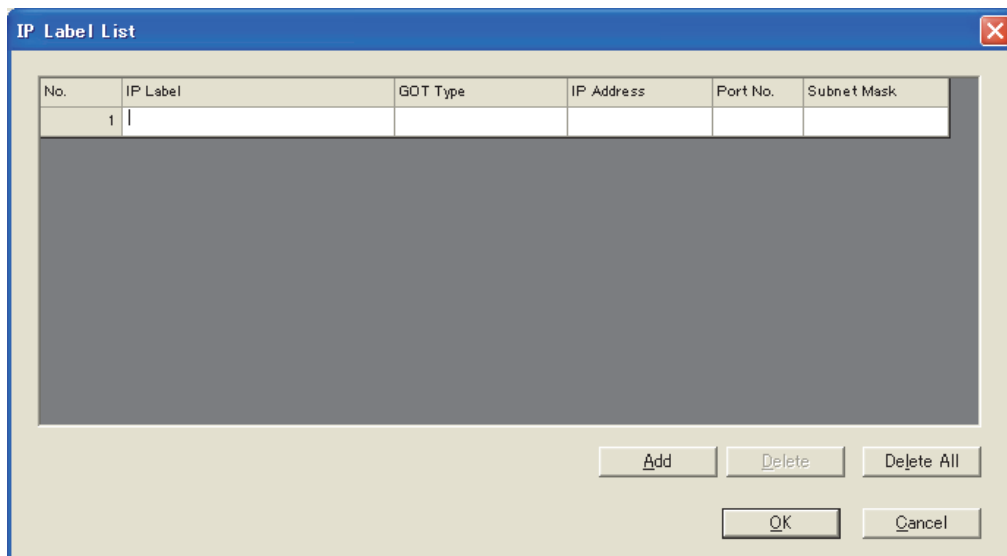
Item	Description
IP Label List	Sets the GOT name, GOT type, IP address, port No., subnet mask.
Add	Adds a line to be registered to the list.
Delete	Deletes the settings in the selected line.
Delete All	Deletes the settings in all lines.
OK	When the setting is changed, the content is reflected. If the [OK] button is not clicked, the set content is not reflected. (Only when a set content is changed, it becomes effective.)
Cancel	The set content is annulled when the setting is changed, and the dialog is closing.

(10) ResourceConverter dialog

When converting the resource data, select [Menu] → [ResourceConverter] from the menu.

This function is only available for the GOT2000 series and GOT1000 series.
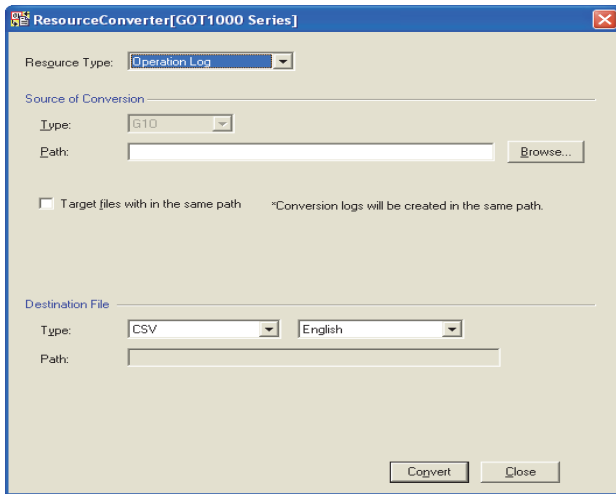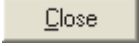
For Operation Log
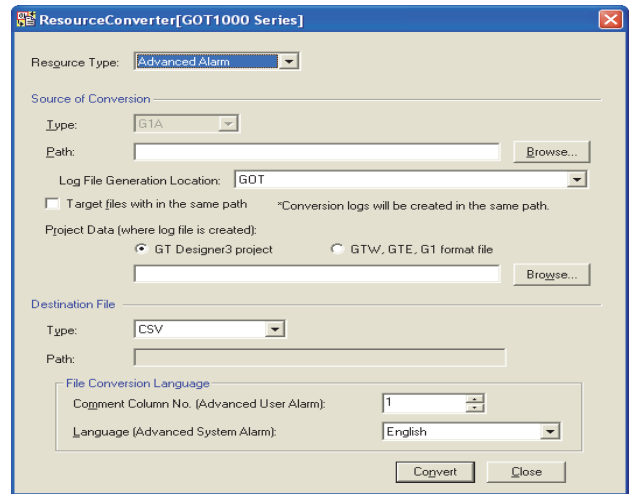
For Advanced Alarm

Item	Description	
Resource Type	Select the resource type (Advanced Recipe, Operation Log, Logging, or Advanced Alarm) to be converted.	
Source of Conversion	Set the conversion source file.	
	Type	Select the type of the conversion source file. The type of the selectable file varies according to the resource data type selected with [Resource Type]. For advanced recipe :CSV, Unicode Text, G1P For operation log :G1O For logging :G1L For advanced alarm :G1A
	Path	Specify the path of the conversion source file. The save destination path can be set by the [Browse] button also.
	Log File Generation Location	Set here when [Advanced Alarm] is selected in [Resource Type]. Select the location where the log file is created.
	Target files with in the same path	If the checkbox is checked, all the files in the same path (only selected files in [Type]) can be targeted. When executing a file conversion with this checkbox checked, the conversion log is created automatically for the specified path.With the conversion log, the full path of the converted file, the conversion result (OK or NG), and the file creation date and time can be checked.
	Project Data (where log file is created)	Set here when [Advanced Alarm] is selected in [Resource Type]. Select the format of the project data and set the project data which is used to create the advanced alarm log file. The save destination path can be set by the [Browse] button also.

Item	Description		
Destination File	Set the converted file.		
	Type		Select the type of the converted file. The type of the selectable file varies according to the resource data type selected with [Resource Type]. For advanced recipe :CSV, Unicode Text, G1P For operation log :CSV, Unicode Text For logging :CSV, Unicode Text For advanced alarm :CSV, Unicode Text When selecting [Operation Log] in [Resource Type], select the language to be used in the converted file. The selectable language varies according to the type of the converted file. CSV :Japanese or English Unicode Text :Japanese, English, Chinese(Simplified), Chinese(Traditional), Korean, or German
	Path		Displays the output destination (the same path as that of the converted file) of the converted file.
	File Conversion Language		Set here when [Advanced Alarm] is selected in [Resource Type]. • [Comment Column No. (Advanced User Alarm)] : Set the comment column No. which is used to convert an advanced alarm log file (advanced user alarm). (1 to 10) • [Language (Advanced System Alarm)] : Select a language of the converted file when converting an advanced alarm log file (advanced system alarm). The selectable language varies according to the type of the converted file. CSV : Japanese or English Unicode Text : Japanese, English, Chinese (Simplified), Chinese (Traditional), Korean or German
Convert	Converts the source file.		
Close	Closes the [ResourceConverter] dialog.		

Point

(1) Precautions on converting advanced recipe file
When converting a Unicode Text file or CSV file to a G1P file, the original G1P file before being converted to the target Unicode Text file or CSV file is required.
Store the original G1P file in the folder with the same path as the Unicode Text file or CSV file of the conversion source file.

(2) Precautions on converting advanced alarm log file
When converting an advanced alarm log file, the project data which is used to create the advanced alarm log file is required.
When there is no project data, read one from the GOT.

4.4   Data Transfer Tool for GOT-A900, GOT-F900, GOT800 Series

(1) Composition of menu
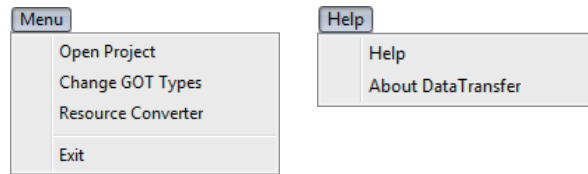
	Item	Description
Menu	Open Project	Opens the project data.
	Change GOT Types	The start menu opens.
	Exit	Ends the data transfer tool.
Help	Help	Displays the help for the data transfer tool.
	About DataTransfer	Version information on the data transfer tool is displayed.

(2) Reading [GOT-A900]/[GOT-F900]/[GOT800] project (GTD/GOT/F1 format)
Select [Open Project] from the menu to display the [Open] dialog.
Select a file format (GTD, GOT, or F1) of a project to be opened in [Files of type], and select the project. Then, click the [Open] button to open the selected project.
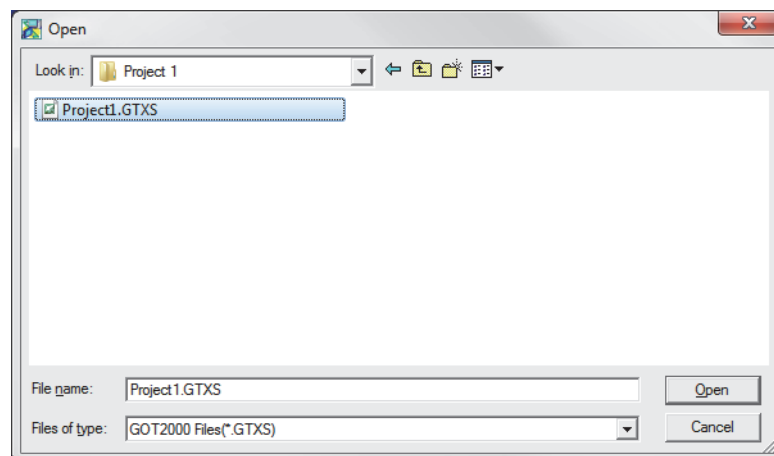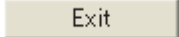
(Example: Window for the GOT-A900 series)

(3) GOT Write tab
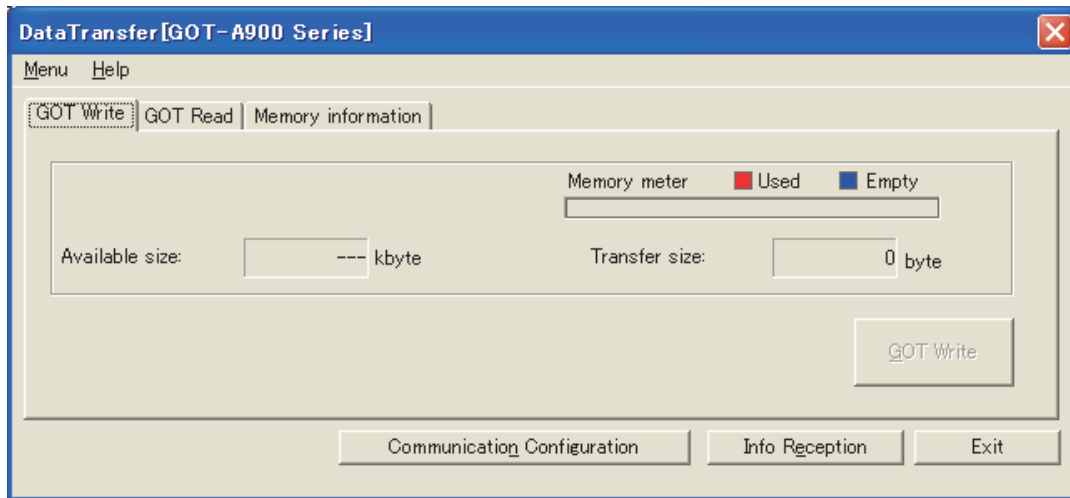
(Example: The screen for GOT-A900 series)

Item	Description
Memory meter	When the GOT's memory information is obtained in the [Memory information] tab, the available capacity for the user is displayed as a meter.
Available size	When the GOT's memory information is obtained in the [Memory information] tab, the available capacity for the user is displayed.
Transfer size	Displays the capacity of the monitor data.
GOT Write	Writes the monitor data.
Communication Configuration...	The [Communication configuration] dialog is opened. ☞ (6) Communication configuration dialog
Info Reception	Reads the drive information from the specified GOT's drive.
Exit	Ends the data transfer tool.

Point

Changing the project data or the GOT type

Select [Menu] → [Open Project]/[Change GOT Types] to change the project data or the GOT type.

(4) GOT Read tab

(Example: The screen for GOT-A900 series)

Item	Description
Password	When setting the password for data transfer or utility start, enter the password. The entered password is displayed as "*".
Destination	Set the storage location for the read monitor data. (Up to five historical data specified in the past are held.) When selecting [DataTransfer] set as the default, the monitor data is stored in the location that the data transfer tool is installed (the location that Data Transfer.exe exists).
GOT Read	Reads all the monitor data in the GOT's built-in memory. When the storage capacity for the read monitor data is insufficient, the reading is stopped.
Communication Configuration	The [Communication configuration] dialog is opened. ☞ (6) Communication configuration dialog
Info Reception	Reads the drive information from the specified GOT's drive.
Exit	Ends the data transfer tool.

(5) Memory information tab
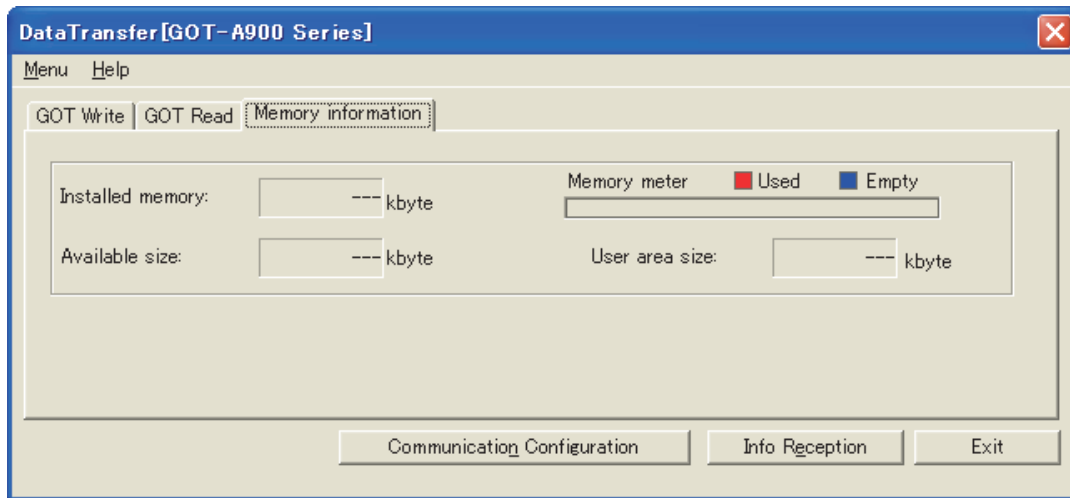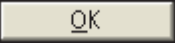
(Example: The screen for GOT-A900 series)

Item	Description
Installed memory	Displays the GOT's built-in memory capacity. (The item does not exist for GOT-F900 series.)
Memory meter	When the GOT's memory information is obtained in the [Memory information] tab, the available capacity for the user is displayed as a meter.
Available size	Displays the available capacity in the built-in memory capacity for the user. (Kbyte unit)
User area size	Displays the used capacity by the user in the built-in memory capacity. (Kbyte unit)
Communication Configuration	The [Communication configuration] dialog is opened. ☞ (6) Communication configuration dialog
Info Reception	Reads the drive information from the specified GOT's drive.
Exit	Ends the data transfer tool.

(6) Communication configuration dialog
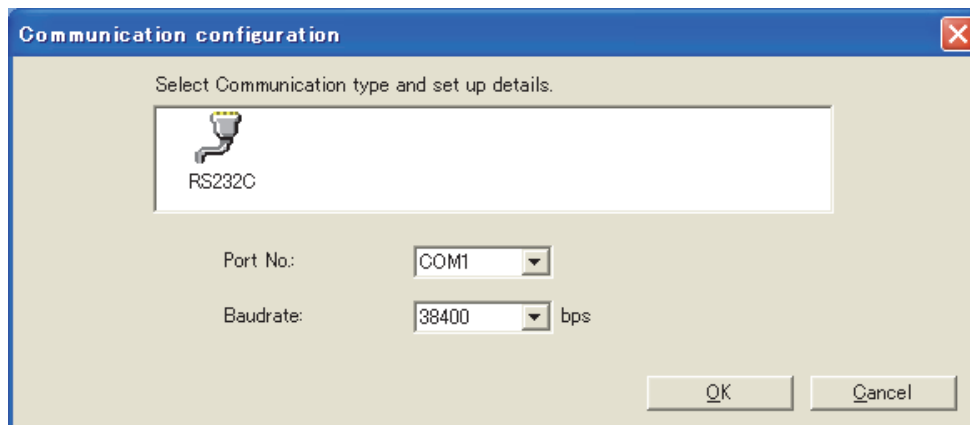
(Example: The screen for GOT-A900 series)

Item	Description
Port No.	Select the PC side port that connects with the GOT.
Baudrate	Set the transmission speed between the PC and the GOT. Set the transmission speed suitable for the PC.
OK	When changing settings, the changed data is reflected. When the [OK] button is not clicked, the set data is not reflected. (Valid only when changing settings.)
Cancel	The [Communication configuration] dialog is shut annulling the set content when the setting is changed.

5　OPERATION WITH COMMAND LINE

Execute the project data transfer and resource data conversion with the command line.
An operation with the command line is available for GOT2000 series and GOT1000 series.
The following explains commands according to the format in the table below.

Symbol	Description
/	Indicates that the command is an option.
[]	Indicates that the command can be omitted.
...	Indicates that the command can specifies multiple options and arguments in a row.

Start the command prompt with either of the operations below. (For Windows 7)
• Select [Start] → [All Programs] → [Accessories] → [Command Prompt] from the menu.
• Select [Start] from the menu, and input "cmd" in [Search programs and files].

Point

Before operation with command line

Before inputting a command name directly in the command prompt to execute the operation, set environment variables (PATH) for the folder of Data Transfer.
For details of the environment variables, refer to the manual or Help of Windows.
The following shows a setting example of environment variables. (For Windows 7)

1 Select [Start] → [Control Panel] → [System and Security] → [System].

2 Select [Advanced system settings] and click the [Environment Variables] button.

3 Select [Path] from [System variables] and click [Edit].
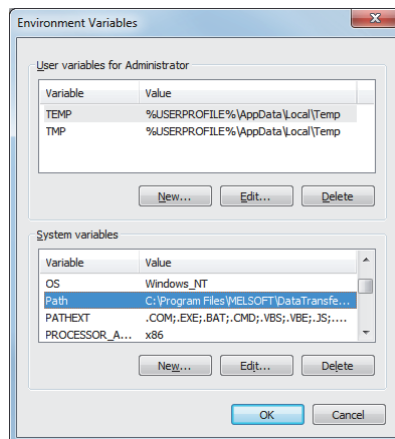
4 Add the path to an executable file to Variable value.

(To set multiple paths, place ; (semi-colon) between paths.)

Example:　C:\Program Files\MELSOFT\DataTransfer
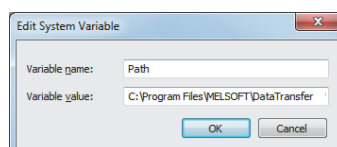
5.1 Data Transfer with Command Line

1 GOT2000 series

The following shows the data transfer operations that can be executed with the command line for the GOT2000 series.

Operation	Command	Reference
Writing the package data	DtComm2000 /download	(1)
Reading the package data	DtComm2000 /upload	(2)
Reading the resource data	DtComm2000 /resourceup	(3)
Obtaining the drive information	DtComm2000 /getdriveinfo	(4)
Communication settings	DtComm2000 /commconfig	(5)
	DtComm2000 /commconfigPlc	
	DtComm2000 /commconfigEthernetUnit	
Communication test	DtComm2000 /commtest	(6)
Displaying version information, data transfer commands, and options	DtComm2000 /help	(7)
	DtComm2000 /?	

(1) Writing the package data

(a) Format

DtComm2000 /download [/Drv got_drive_name] [/InitSRAM] [/NotReboot]
[/PrjUsername project_username] [/PrjPassword project_password]
[/Pass got_password] [/RemotePass remote_password] package_filename

(b) Option

Option	Variable name	Description
/Drv	got_drive_name	Specifies the GOT drive where the package data is written. (A, B, C, E, F, G) When this option is omitted, the C drive is specified.
/InitSRAM	-	Writes the package data after the SRAM user area of the destination drive is initialized. When this option is omitted, the package data is written without the initialization of the SRAM user area.
/NotReboot	-	Does not restart the GOT after the package data is written. When this option is omitted, the GOT is restarted after the package data is written.
/PrjUsername	project_username	Specifies the user name set for the project of the package data to be written. When this option is omitted, the user name is not specified.
/PrjPassword	project_password	Specifies the password set for the project of the package data to be written. When this option is omitted, the password is not specified.
/Pass	got_password	Specifies the data transfer/utility password set with GT Designer3. When this option is omitted, the password is not specified.
/RemotePass	remote_password	Specifies the remote password set for the Ethernet module. When this option is omitted, the password is not specified.
-	package_filename	Specifies the file name of the package data to be written with an absolute path/a relative path and an extension (".GTXS").

(c) Input example

Example: When the package data (TEST.GTXS) is written to the C drive of the GOT
DtComm2000 /download /Drv C TEST.GTXS

(2) Reading the package data

(a) Format

DtComm2000 /upload [/Drv got_drive_name] [/Pass got_password]
[/RemotePass remote_password] [package_filename]

(b) Option

Option	Variable name	Description
/Drv	got_drive_name	Specifies the GOT drive that stores the package data to be read. (A, B, C, E, F, G) When this option is omitted, the C drive is specified.
/Pass	got_password	Specifies the data transfer/utility password set with GT Designer3. When this option is omitted, the password is not specified.
/RemotePass	remote_password	Specifies the remote password set for the Ethernet module. When this option is omitted, the password is not specified.
-	package_filename	Specifies the file name of the package data to be read with an absolute path/a relative path and an extension (".GTXS"). When this option is omitted, the data is read as "G2PRJCT.GTXS" to the current directory.

(c) Input example

Example: When the package data is read from the C drive of the GOT and stored as "TEST.GTXS" in C:\TEST_DIR in the personal computer
DtComm2000 /upload /Drv C C:\TEST_DIR\TEST.GTXS

(3) Reading the resource data

(a) Format

DtComm2000 /resourceup [/Drv got_drive_name] [/Dest up_folder]
[/Pass got_password] [/RemotePass remote_password] filename ...

(b) Option

Option	Variable name	Description
/Drv	got_drive_name	Specifies the GOT drive that has resource data to be read. (A, B, C, D ,E, F, G) When this option is omitted, the C drive is specified.
/Dest	up_folder	Specifies the destination for the read resource data. When this option is omitted, resource data are read to the current directory.
/Pass	got_password	Specifies the data transfer/utility password set with GT Designer3. When this option is omitted, the password is not specified.
/RemotePass	package_filename	Specifies the remote password set for the Ethernet module. When this option is omitted, the password is not specified.
-	filename	Specifies the file name or path of the resource data to be read. Multiple file names or paths of the resource data to be read can be specified. If "all" is specified, all resource data for the specified drive are read.

(c) Input example

Example: When the resource data (ARP00001.G2P) is read from the A drive of the GOT and stored in C:\TEST_DIR in the personal computer
DtComm2000 /resourceup /Drv A /Dest C:\TEST_DIR ARP00001.G2P

(4) Obtaining the drive information

(a) Format

DtComm2000 /getdriveinfo [/Drv got_drive_name] [/RemotePass remote_password]

(b) Option

Option	Variable name	Description
/Drv	got_drive_name	Specifies the GOT drive for obtaining information. (A, B, C, D, E, F, G) When this option is omitted, the C drive is specified.
/RemotePass	remote_password	Specifies the remote password set for the Ethernet module. When this option is omitted, the password is not specified.

(c) Input example

Example: Obtaining the drive information from the A drive in the GOT

DtComm2000 /getdriveinfo /Drv A

(5) Communication settings

(a) Format

Connection type	Format
GOT direct connection	DtComm2000 /commconfig [/Type comm_type] [/Ip got_ip] [/Port got_port] [/Timeout timeout] [/Retry retry]
Via PLC	DtComm2000 /commconfigPlc [/Plc plc] [/Type comm_type] [/CPort cport] [/Baudrate baudrate] [/Protocol pc_protocol] [/PlcConnectType plc_connect_type] [/PlcConnectFormat plc_connect_format] [/PlcIp plc_ip] [/PlcHost plc_host] [/GotNetwork got_network] [/GotStation got_station] [/Timeout timeout] [/Retry retry]
Via PLC Ethernet module	DtComm2000 /commconfigEthernetUnit [/Plc plc] [/Protocol pc_protocol] [/PcNetwork pc_network] [/PcStation pc_station] [/UnitStation unit_station] [/UnitConnectFormat unit_connect_format] [/UnitIP unit_ip] [/UnitHost unit_host] [/UnitStaionIPInfo unit_station_ip_info] [/GotNetwork got_network] [/GotStation got_station] [/Timeout timeout] [/Retry retry]

(b) Option

Option	Variable name	Description
/Type	comm_type	Specifies the connection method. GOT direct connection: USB, Ethernet Via PLC: RS232, USB, Ethernet
/Cport	cport	Specifies the communication port (COM1 to COM63). Available only when the connection method is specified to [RS232].
/Baudrate	baudrate	Specifies the transfer speed (baud rate) (9600, 19200, 38400, 57600, 115200). Available only when the connection method is specified to [RS232].
/Ip	got_ip	Specifies the IP address (0.0.0.0 to 255.255.255.255). An IP address can also be specified with a registered name. Available only when the connection method is specified to [Ethernet].
/Port	got_port	Specifies the port number of the GOT. (1024 to 65534) Available only when the connection method is specified to [Ethernet].
/Plc	plc	Specifies the PLC side interface. Via PLC: RCPU, QCPU, LCPU Via PLC Ethernet module: RJ71EN71, QJ71E71, LJ71E71
/Protocol	pc_protocol	Specifies the communication protocol used in the communication between the personal computer and the PLC. (TCP, UDP) Available only when the connection method is specified to [Ethernet].

Option	Variable name	Description
/PlcConnectType	plc_connect_type	Specifies the connection method of the PLC side interface. (EternetPort, ViaHub) Available only when the connection method is specified to [Ethernet].
/PlcConnectFormat	plc_connect_format	Specifies the destination of the PLC side interface. (IP, HostName) Available only when the connection method is specified to [Ethernet].
/PlcHost	plc_host	Specifies the host name of the destination PLC. One-byte character: 0 to 64 characters Available only when the connection method is specified to [Ethernet].
/GotNetwork	got_network	Specifies the network No. of the network to which the GOT is connected. (1 to 239)
/GotStation	got_station	Specifies the station No. of the GOT. (0 to 120)
/Timeout	timeout	Specifies the timeout time (second). (1 to 9999)
/Retry	retry	Specifies the retry time at the timeout. (0 to 5)
/PcNetwork	pc_network	Specifies the network No. of the Ethernet network to which the personal computer is connected when the Ethernet module is selected as the PLC side interface. (1 to 239) Available only when the connection method is specified to [Ethernet].
/PcStation	pc_station	Specifies the station No. of the personal computer when the Ethernet module is selected as the PLC side interface. (1 to 120) Available only when the connection method is specified to [Ethernet].
/UnitStation	unit_station	Specifies the station No. of the Ethernet module when the Ethernet module is selected as the PLC side interface. QJ71E71, LJ71E71　　　: 1 to 64 RJ71EN71　　　　　: 1 to 120 Available only when the connection method is specified to [Ethernet].
/UnitConnectFormat	unit_connect_format	Specifies the destination of the Ethernet module when the Ethernet module is selected as the PLC side interface. (IP, HostName) Available only when the connection method is specified to [Ethernet].
/UnitIp	unit_ip	Specifies the IP address of the Ethernet module when the Ethernet module is selected as the PLC side interface. (0.0.0.0 to 255.255.255.255) Available only when the connection method is specified to [Ethernet].
/UnitHost	unit_host	Specifies the host name of the Ethernet module when the Ethernet module is selected as the PLC side interface. One-byte character: 0 to 64 characters Available only when the connection method is specified to [Ethernet].
/UnitStationIPInfo	unit_station_ip_info	Specifies the method to relate the network No., station No., and IP address of the destination PLC in the communication between the destination PLC and other PLCs. Specify the network parameter of the destination PLC. (Automatic Response System, IP Address Computation/Table Conversion/Combination System)

(c) Input example

Example: When the connection method is changed to "USB" and the connection timeout time is changed to "15 seconds" in the communication setting

DtComm2000 /commconfig /Type USB /Timeout 15

(6) Communication test

   (a) Format

      DtComm2000 /commtest [/RemotePass remote_password]

   (b) Option

Option	Variable name	Description
/RemotePass	remote_password	Specifies the remote password set for the Ethernet module. When this option is omitted, the password is not specified.

(7) Displaying the Help, S/W version, data transfer command and options

   (a) Format

      DtComm2000 /help

      DtComm2000 /?

2 GOT1000 series

The following shows the data transfer operations that can be executed with the command line for the GOT1000 series.

Operation	Command	Reference
Writing the project data	DtComm /download	(1)
Reading the project data	DtComm /upload	(2)
Reading the resource data	DtComm /resourceup	(3)
Obtaining the drive information	DtComm /getdriveinfo	(4)
Creating the INI file	DtComm /inicreate	(5)
Communication settings	DtComm /commconfig	(6)
Displaying the S/W version, data transfer command and options	DtComm /help	(7)
	DtComm /?	

(1) Writing the project data

(a) Format

DtComm /download [/Drv got_drive_name] [/Del] [/NotReboot] [/PrjUsername project_username] [/PrjPassword project_password] [/Pass password] project_filename
DtComm /download INI_filename

(b) Option

Option	Variable name	Description
/Drv	got_drive_name	Specifies the GOT drive (A, B, C) where project data are written. When this option is omitted, the C drive is specified.
/Del	-	Writes project data to the drive, after deleting all project data that already exist in the drive. When this option is omitted, the project data are written to the drive without deleting all project data that already exist in the drive.
/NotReboot	-	Does not restart the GOT after project data are written. Available only when the GOT is connected to the personal computer with the Ethernet connection. When this option is omitted, the GOT is restarted after the project data are written.
/PrjUsername	project_username	Specifies the user name set for the project data to be written.
/PrjPassword	project_password	Specifies the password set for the project data to be written.
/Pass	password	Specifies the data transfer/utility password set for the write destination project data. The password is valid when the project data in the GOT is overwritten. When "/Del" is specified, this option is not required. When this option is omitted, the password is not specified.
-	project_filename	Specifies the file name of the project data to be written with an absolute path/ a relative path and an extension (.GTW/.G1/.GTE).
/download	INI_filename	Specifies the INI file to be used for the write with an absolute path/a relative path and an extension (.ini).

For the details of the INI file, refer to the following.

☞ 5.3 INI File

(c) Input example

Example: Writing the project data (TEST.GTE) to the C drive in the GOT
DtComm /download /Drv C TEST.GTE

(2) Reading the project data

  (a) Format

    DtComm /upload [/Drv got_drive_name] [/Pass password] [G1_filename]

    DtComm /upload INI_filename

  (b) Option

Option	Variable name	Description
/Drv	got_drive_name	Specifies the GOT drive (A, B, C) that has project data to be read. When this option is omitted, the C drive is specified.
/Pass	password	Specifies the data transfer/utility password set with GT Designer3 or GT Designer2. When this option is omitted, the password is not specified.
-	G1_filename	Specifies the storage location for the read project data with an absolute path/a relative path and an extension (.G1). When this option is omitted, project data are read as "G1PRJCT.G1" file to the current directory.
-	INI_filename	Specifies the INI file to be used for the read with an absolute path/a relative path and an extension (.ini).

For the details of the INI file, refer to the following.

    ☞ 5.3 INI File

  (c) Input example

    Example: Reading project data from the C drive in the GOT and storing data as TEST.G1 to C:\TEST_DIR in the personal computer

           DtComm /upload /Drv C C:\TEST_DIR\TEST.G1

(3) Reading the resource data

  (a) Format

    DtComm /resourceup [/Drv got_drive_name] [/Dest up_folder] filename...

    DtComm /resourceup INI_filename

  (b) Option

Option	Variable name	Description
/Drv	got_drive_name	Specifies the GOT drive (A, B, C, D) that has resource data to be read. When this option is omitted, the C drive is specified.
/Dest	up_folder	Specifies the destination for the read resource data. When this option is omitted, resource data are read to the current directory.
-	filename	Specifies the file name or path of the resource data to be read. If "all" is specified, all resource data for the specified drive are read.
-	INI_filename	Specifies the INI file to be used for the read with an absolute path/a relative path and an extension (.ini).

For the details of the INI file, refer to the following.

    ☞ 5.3 INI File

  (c) Input example

    Example: Reading resource data (ARP00001.G1P) from the A drive in the GOT and storing data to C:\TEST_DIR in the personal computer.

           DtComm /resourceup /Drv A /Dest C:\TEST_DIR \PROJECT1\ARP00001.G1P

(4) Obtaining the drive information

(a) Format

DtComm /getdriveinfo [/Drv got_drive_name] [INI_filename]

(b) Option

Option	Variable name	Description
/Drv	got_drive_name	Specifies the GOT drive (A, B, C, D) for obtaining information. When this option is omitted, the C drive is specified.
-	INI_filename	Specifies the INI file that stores the obtained drive information with an extension (.ini). When this option is omitted, the obtained drive information is output to the command prompt screen.

(c) Input example

Example: Obtaining the drive information from the A drive in the GOT and storing data to the "TransTest.ini" file

DtComm /getdriveinfo /Drv A C:\TEST_DIR\TransTest.ini

(5) Creating the INI file

(a) Format

DtComm /inicreate INI_filename [/Transfer_data_item [transfer_setting]...]...

(b) Option

Option	Variable name	Description
-	INI_filename	Specifies the file name of the INI file to be created with an extension (.ini).
/Transfer_data_item	-	Specifies the key in the INI file for data to be transferred. For details of the keys in the INI file, refer to the following. ☞ 5.3 INI File
-	transfer_setting	Specifies the number (such as a screen number) and file name of data to be transferred.

For the details of the INI file, refer to the following.

☞ 5.3 INI File

(c) Input example

Example: Creating the INI file (TransTest.ini) for writing the project data.

DtComm /inicreate TransTest.ini /file TEST.GTE /got_drive C /download_delete 1 / base 1-5 /advrecipe all /comunication_setting 1 /got_setup 1 /advrecipecommon 1

(6) Communication settings

    (a) Format

        DtComm /commconfig [/Type comm_type] [/Cport port] [/Baudrate baudrate] [/Ip ip_address] [/ Port port_num] [/Mport port] [/Mbaudrate baudrate] [/Databit data] [/Parity parity] [/Stopbit stopbit] [/Timeout timeout]
        DtComm /commconfig /test

    (b) Option

Option	Variable name	Description
/Type	comm_type	Specifies the connection method (RS232, USB, Ethernet, Modem).
/Cport	port	Specifies the communication port (COM1 to COM63). Available only when the connection method is specified to [RS232].
/Baudrate	baudrate	Specifies the transfer speed (baud rate) (9600, 19200, 38400, 57600, 115200). Available only when the connection method is specified to [RS232].
/Ip	ip_address	Specifies the IP address (0.0.0.0 to 255.255.255.255). An IP address can also be specified with a registered name. Available only when the connection method is specified to [Ethernet].
/Port	port_num	Specifies the port number (1024 to 65534). Available only when the connection method is specified to [Ethernet].
/Mport	port	Specifies the communication port (COM1 to COM63). Available only when the connection method is specified to [Modem].
/MBaudrate	baudrate	Specifies the transfer speed (baud rate) (9600, 19200, 38400, 57600, 115200). Available only when the connection method is specified to [Modem].
/Databit	data	Specifies the MODEM databit (8).
/Parity	parity	Specifies the MODEM parity (Odd, Even, None).
/Stopbit	stopbit	Specifies the MODEM stopbit (1, 2).
/Timeout	timeout	Specifies the MODEM timeout (1 to 90).
/test	-	Executes the communication test.

    (c) Input example

        Example: Changing the communication settings of the connection method, communication port, and baud rate to [RS232], [COM1], and [57600] respectively
                DtComm /commconfig /Type RS232 /Cport COM1 /Baudrate 57600

(7) Displaying the S/W version, data transfer command and options

    (a) Format

        DtComm /help
        DtComm /?

5.2   Resource Data Conversion with Command Line

1 GOT2000 series

The following shows the resource data conversion operations that can be executed with the command line for the GOT2000 series.

Operation	Command	Reference
Converting resource data	rcconv2000	(1)
Displaying the S/W version, resource data conversion commands, and options.	rcconv2000 /help	(2)
	rcconv /?	

(1) Converting resource data

(a) Format

Resource type	Format
Recipe, Logging	rcconv2000 filename [target_extension] [/m]
Operation log	rcconv2000 filename [target_extension] [language_type] [/m]
Alarm	rcconv2000 filename projectfilename [user:username] [pw:password] [target_extension] [column_no] [language_type] [/m]

(b) Option

Option	Description
filename	Specifies the source resource data file with an absolute path/a relative path and a file name (including extension).
projectfilename	Specifies the file of the project data used to create the alarm log file to be converted with an absolute path/a relative path and a project file name including an extension (GTXS).
user:username	Specifies this option when security is set in the project data specified with "projectfilename". Enter the specified user name after "user:".
pw:password	Specifies this option when security is set in the project data specified with "projectfilename". Enter the specified password after "pw:".
target_extension	Specifies the extension of the converted file. The type of the file that can be specified varies according to the source resource data type. For recipe :CSV, TXT, G2P For operation log :CSV, TXT For logging :CSV, TXT For alarm :CSV, TXT When this option is omitted, the extension is specified as listed below according to the type of the conversion source file. G2P, G2O, G2L, G2A :CSV CSV, TXT :G2P
column_no	Specifies the comment column No. which is used to convert the alarm log file (user alarm). When this option is omitted, 1 is specified.

Option	Description
language_type	Specifies the output language for the operation log and alarms. Available only when the operation log file or alarm log file (system alarm) is converted. The type of the file that can be specified varies according to the type of the converted file. For CSV 　　　Japanese　　　　　　:JPN 　　　English　　　　　　　:ENG For TXT 　　　Japanese　　　　　　:JPN 　　　English　　　　　　　:ENG 　　　Chinese (Simplified) :CHS 　　　Chinese (Traditional):CHT 　　　Korean　　　　　　　:KOR When this option is omitted, Japanese (JPN) is specified.
/m	Targets all files (only the extension specified with "target_exteision") in the same path for the conversion. A conversion log is automatically created in the specified path. With the conversion log, the full path of the converted file, the conversion result (OK or NG), and the file creation date and time can be checked.

(c)　Input example
　　Example:　When the resource data (ARP00001.G2P) in C:\TEST_DIR\Package1 of the
　　　　　　　personal computer is converted to a CSV file
　　　　　　　rcconv2000 C:\TEST_DIR\Package1\ARP00001.G2P CSV

Point

(1)　Precautions on converting a recipe file
　　　When a Unicode Text file or a CSV file is converted to a G2P file, the original G2P
　　　file before being converted to the target Unicode Text file or CSV file is required.
　　　Store the original G2P file in the folder where the conversion source file, the
　　　Unicode Text file or CSV file, is stored.
(2)　Precautions on converting an alarm log file
　　　To convert an alarm log file, the project data used to create the alarm log file is
　　　required.
　　　When there is no project data, read one from the GOT.

(2)　Displaying the S/W version, resource data conversion commands, and options

(a)　Format
　　rcconv2000 /help
　　rcconv2000 /?

2 GOT1000 series

The following shows the resource data conversion operations that can be executed with the command line for the GOT1000 series.

Operation	Command	Reference
Converting resource data	rcconv	(1)
Displaying the S/W version, resource data conversion commands, and options.	rcconv /help	(2)
	rcconv /?	

(1) Converting resource data

(a) Format

Resource type	Format
Advanced recipe, Logging	rcconv filename [target_extension] [/m]
Operation log	rcconv filename [target_extension] [language_type] [/m]
Advanced alarm	rcconv filename projectfilename [user:username] [pw:password] [target_extension] [column_no] [language_type] [generation_location] [/m]

(b) Option

Option	Description
filename	Specifies the source resource data file with an absolute path/a relative path and a file name (including extension).
projectfilename	Specifies the file of the project data which is used to create an advanced alarm log file data to be converted. • For GT Designer3 project : Absolute path/Relative path + project name • For GTW/GTE/G1 : Absolute path/Relative path + project file name (with an extension)
user:username	Specifies this option when security is set in the project data specified with "projectfilename". Enter the specified user name after "user:".
pw:password	Specifies this option when security is set in the project data specified with "projectfilename". Enter the specified password after "pw:".
target_extension	Specifies the extension of the converted file. The type of the file that can be specified varies according to the source resource data type. For advanced recipe :CSV, TXT, G1P For operation log :CSV, TXT For logging :CSV, TXT For advanced alarm :CSV, TXT When this option is omitted, the extension is specified as listed below according to the type of the conversion source file. G1P, G1O, G1L, G1A :CSV CSV, TXT :G1P
column_no	Specifies the comment column No. which is used to convert an advanced alarm log file (advanced user alarm). When this option is omitted, 1 is specified.

Option	Description
language_type	Specifies the output language for the operation log and the advanced alarm. Available only when the operation log file or advanced alarm log file (advanced system alarm) is converted. The type of the file that can be specified varies according to the type of the converted file. For CSV Japanese :JPN English :ENG For TXT Japanese :JPN English :ENG Chinese (Simplified) :CHS Chinese (Traditional):CHT Korean :KOR German :GER When this option is omitted, Japanese (JPN) is specified.
generation_location	Specifies the location where the advanced alarm log file is created. For GOT main unit : GOT For GT SoftGOT1000 (when SoftGOT-GOT link function is used) : SGOTLINK For GT SoftGOT1000 (when SoftGOT-GOT link function is not used): SGOT For GT Simulator3/GT Simulator2 : GSS
/m	Targets all files (only the extension specified with "target_exteision") in the same path for the conversion. A conversion log is automatically created in the specified path. With the conversion log, the full path of the converted file, the conversion result (OK or NG), and the file creation date and time can be checked.

(c) Input example

    Example: Converting the resource data (ARP00001.G1P) of "C:\TEST_DIR\PROJECT1" in a personal computer into a CSV file.
                rcconv C:\TEST_DIR\PROJECT1\ARP00001.G1P CSV

Point

(1) Precautions on converting advanced recipe file

When converting a Unicode Text file or CSV file to a G1P file, the original G1P file before being converted to the target Unicode Text file or CSV file is required.
Store the original G1P file in the folder with the same path as the Unicode Text file or CSV file of the conversion source file.

(2) Precautions on converting advanced alarm log file

When converting an advanced alarm log file, the project data which is used to create the advanced alarm log file is required.
When there is no project data, read one from the GOT.

---

(2) Displaying the S/W version, resource data conversion commands, and options

(a) Format

    rcconv /help
    rcconv /?

5.3 INI File

By registering the communication setting, transfer target, and others to the INI file, the INI file can be used for the data transfer with the command line.
With the INI file, processing, including automatically transferring the specified data regularly, is enabled.
The INI file can be created with the command line operation.
This function can be used only for the GOT1000 series.
For details of the commands, refer to the following.
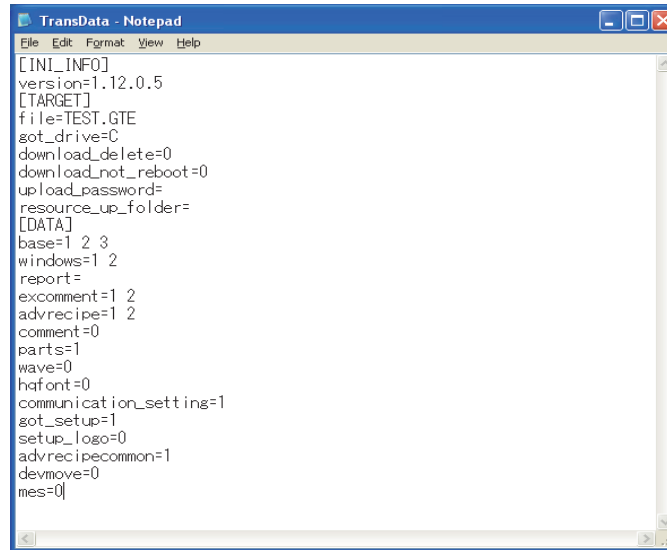
☞ 5.1 (4)Obtaining the drive information
　5.1 (5)Creating the INI file

Point　　**Creating and editing the INI file**

When transferring the project data, the "TransData.ini" file that is stored in the same path as the "DataTransfer.exe" file is updated.
The above edited INI file can be used for transferring data.
Edit the INI file with a text editor.

The keys in the INI file are classified into three categories.
When editing the INI file, input keys in the specified category.
In the categories, the order of the keys can be changed.
The following explains the keys in each category.

(1) [INI_INFO]

In the category [INI_INFO], the version of the "dll" file is displayed when the INI file is created. (No need to input the version.)

Key	Description
version	Displays the version of the "dll" file during creating the INI file.

(2) [TARGET]

In the category [TARGET], specify the data transfer setting.

Key	Description
file	Specifies the file name of project data to be written or the name of the file that stores the read project data. This key cannot be omitted.
got_drive	Specifies the GOT drive for the transfer target. This key cannot be omitted.
download_delete	Specifies whether to delete all existing project data when writing data. (0: All data not deleted, 1: All data deleted) When this key is omitted, the project data are written to the drive without deleting the all existing project data.
download_not_reboot	Specifies whether to restart the GOT automatically after writing project data, Available only when the GOT is connected to the personal computer with the Ethernet connection. (0: GOT restarted automatically, 1: GOT not restarted automatically) When this key is omitted, the GOT is restarted automatically.
upload_password	Specifies the data transfer/utility password set with GT Designer3 or GT Designer2. When this key is omitted, the password is not specified.
resource_up_folder	Specifies the folder of the resource data to be read. This key cannot be omitted.
project_username	Specifies user-name when opening the project file.
project_password	Specifies password when opening the project file.

(3) [DATA]

In the category [DATA], specify the data to be transferred.
When specifying multiple data, separate the each key with a one-byte space.

Key	Description
base	Specifies the base screen of the transfer target with the screen number. When specifying consecutive screen numbers, numbers such as "1-5" (for 1 to 5) can be specified. If "all" is specified, the all base screen setting data in the specified drive are transferred.
window	Specifies the window screen of the transfer target with the screen number. When specifying consecutive screen numbers, numbers such as "1-5" (for 1 to 5) can be specified. If "all" is specified, the all window screen setting data for the specified drive are transferred.
report	Specifies the report screen of the transfer target with the screen number. When specifying consecutive screen numbers, numbers such as "1-5" (for 1 to 5) can be specified. If "all" is specified, the all report screen setting data in the specified drive are transferred.

Key	Description
excomment	Specifies the comment group of the transfer target with the group number. When specifying consecutive group numbers, numbers such as "1-5" (for 1 to 5) can be specified. If "all" is specified, the all comment setting data in the specified drive are transferred.
advrecipe	Specifies the advanced recipe setting of the transfer target with the recipe number. When specifying consecutive recipe numbers, numbers such as "1-5" (for 1 to 5) can be specified. If "all" is specified, the all advanced recipe setting data in the specified drive are transferred.
comment	Specifies whether to transfer the basic comment setting data. (0: Not transferred, 1: Transferred)
parts	Specifies whether to transfer the parts setting data. (0: Not transferred, 1: Transferred)
wave	Specifies whether to transfer the sound WAVE setting data. (0: Not transferred, 1: Transferred)
hqfont	Specifies whether to transfer the HQ font setting data. (0: Not transferred, 1: Transferred)
communication_setting	Specifies whether to transfer the communication setting data. (0: Not transferred, 1: Transferred)
got_setup	Specifies whether to transfer the GOT setup setting data. (0: Not transferred, 1: Transferred)
setup_logo	Specifies whether to transfer the startup logo setting data. (0: Not transferred, 1: Transferred)
advrecipecommon	Specifies whether to transfer the advanced recipe common setting data. (0: Not transferred, 1: Transferred)
devmove	Specifies whether to transfer the device data transfer setting data. (0: Not transferred, 1: Transferred)
mes	Specifies whether to transfer the MES interface setting data. (0: Not transferred, 1: Transferred)
communication_setting_ip_label	Specifies whether to transfer the communication setting data and IP Label List. (0: Not transferred, 1: Transferred)
label	Specifies whether to transfer the system label. (0: Not transferred, 1: Transferred)
resource_files	Specifies the resource data to be read with the file name or path of the resource data. If "all" is specified, all resource data in the specified drive are read.

5.4   Setting Example
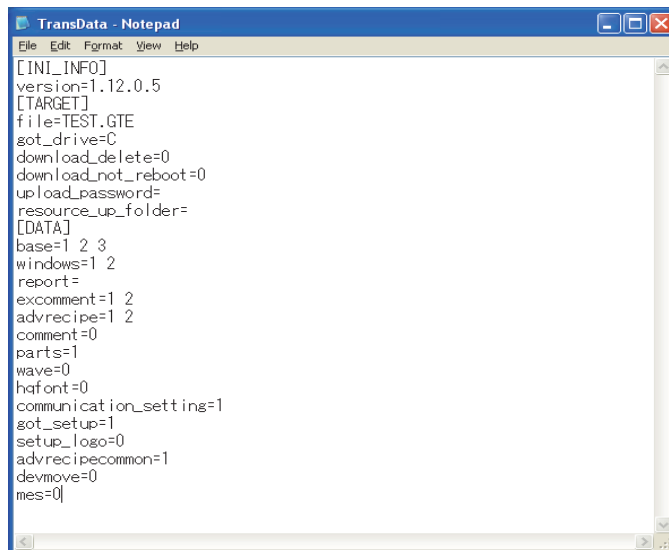
The following explains the setting example of the INI file.

(1) When writing project data

(a) Data to be written

Transfer target	INI file setting	Description
Project data	file=test.gte	Writes "test.gte".
Destination GOT drive	got_drive=C	Specifies the C drive for storing the written project data.
Base screen	base=1 2 3	Writes the base screen setting (Screen number: 1, 2, 3).
Window screen	window=1 2	Writes the window screen setting (Screen number: 1, 2).
Comment group	excomment=1 2	Writes the comment settings (Group number: 1, 2).
Advanced recipe settings	advrecipe=1 2	Writes the advanced recipe settings (Recipe number: 1, 2).
Parts	parts=1	Writes the parts setting.
Communication settings	communication_setting=1	Writes the communication settings.
GOT setup	got_setup=1	Writes the GOT setup setting.
Advanced recipe common	advrecipecommon=1	Writes the advanced recipe common setting.

(b) INI file

(2) When reading resource data

(a) Data to be read

Transfer target	INI file setting	Description
Source GOT drive	got_drive=A	Specifies the A drive for the source resource data.
Destination of resource data to be read	resource_up_folder=.\	Reads the resource data to the current directory.
Resource data to be read	resource_files=\PROJECT1\ARP00001.G1P	Reads the advanced recipe file (ARP00001.G1P) stored in the GOT A drive.

(b) INI file
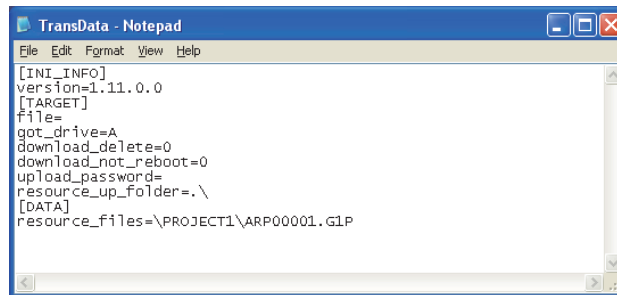
```
[INI_INFO]
version=1.11.0.0
[TARGET]
file=
got_drive=A
download_delete=0
download_not_reboot=0
upload_password=
resource_up_folder=.\
[DATA]
resource_files=\PROJECT1\ARP00001.G1P
```

6   INTERFACE FUNCTION

The interface function is a function that can be used with Microsoft Visual C++.
By using the interface function, the data transfer and the resource data conversion can be executed between the GOT and a personal computer with the user-created application.
The interface function can be used for the GOT2000 series and GOT1000 series.

Point   **Return Value**

For details of the return value for the interface function, refer to the following.

☞ 6.4 Return Value

6.1   Development Environment

(1) Development environment
The following shows the development environment using the interface function.

Development environment
GOT2000 series: Microsoft Visual Studio 2008
GOT1000 series: Microsoft Visual C++ 6.0

(2) For using interface function
For using the interface function, the following files are required.

File name	Description
DtUser2000.dll	DLL for the interface functions for GOT2000
DtUser2000.lib	LIB for the interface functions for GOT2000
DtFunc2000.h	Header file for the interface functions for GOT2000
DtUser.dll	DLL for the interface functions for GOT1000
DtUser.lib	LIB for the interface functions for GOT1000
DtFunc.h	Header file for the interface functions for GOT1000

The above files are stored in the DVD-ROM [Disk4] folder of GT Works3.
To use an application that uses the interface functions, store "DtUser.dll" or "DtUser2000.dll" in the folder where the application is stored or in a folder with a path specified.
The folder storing the above files is shown below.

```
DVD-ROM drive
    └── Disk4
          └── DataTransfer
                └── DtUserDLL
                      ├── DtUser.dll         DLL for the interface functions for GOT1000
                      ├── DtUser.lib         LIB for the interface functions for GOT1000
                      ├── DtFunc.h           Header file for the interface functions for GOT1000
                      ├── DtUser2000.dll     DLL for the interface functions for GOT2000
                      ├── DtUser2000.lib     LIB for the interface functions for GOT2000
                      └── DtFunc2000.h       Header file for the interface functions for GOT2000
```

6.2 Data Transfer Interface Function

1 GOT2000 series

The following shows the data transfer interface functions to transfer data with the user-created application for the GOT2000 series.

Data transfer interface function	Description	Reference
long DT2000_Download()	Writes the package data.	(1)
long DT2000_Upload()	Reads the project data.	(2)
long DT2000_ResourceUP()	Reads the resource data.	(3)
long DT2000_CommConfig()	Changes communication settings.	(4)
long DT2000_CommConfigPlc()	Changes the communication setting via PLC.	(5)
long DT2000_CommConfigEthernetUnit()	Changes the communication setting via Ethernet module.	(6)
long DT2000_CommTest()	Executes the communication test.	(7)
long DT2000_GetLastCommError()	Obtains the communication error data occurred in previous communication.	(8)

(1) DT2000_Download()

(a) Format

lResult = DT2000_Download(package _filename, got_drive_name, init_sram, notreboot, project_username, project_password, remote_password, got_password);

Variable name	Variable type	Description	I/O
lResult	long	Displays the return value.	Output
package_filename	const wchar_t*	Specifies the file name of the package data to be written.	Input
got_drive_name	const wchar_t*	Specifies the drive (A, B, C, E, F, or G) of the GOT to which the package data is written.	Input
init_sram	long	Specifies whether the SRAM user area of the destination drive is initialized or not. (Not initialized: 0, Initialized: 1)	Input
notreboot	long	Specifies whether the GOT is restarted after the package data is written. (GOT restarted: 0, GOT not restarted: 1)	Input
project_username	const wchar_t*	Specifies the user name set for the project of the package data to be written.	Input
project_password	const wchar_t*	Specifies the password set for the project of the package data to be written.	Input
remote_password	const wchar_t*	Specifies the remote password set for the Ethernet module.	Input
got_password	const wchar_t*	Specifies the password set for data transfer.	Input

(b) Return value

Successful completion : "0" is returned.
Error completion   : A value other than "0" is returned.

(c) Precautions

When a project security is not set, specify "NULL" or null character strings for "project_username" and "project_password".
When a password is not set, specify "NULL" or null character strings for "remote_password" and "got_password".

(2) DT2000_Upload()

  (a) Format

    lResult = DT2000_Upload(package_filename, got_drive_name, remote_password, got_password);

Variable name	Variable type	Description	I/O
lResult	long	Displays the return value.	Output
package_filename	const wchar_t*	Specifies the file name of the package data to be read.	Input
got_drive_name	const wchar_t*	Specifies the drive (A, B, C, E, F, or G) of the GOT from which the package data is read.	Input
remote_password	const wchar_t*	Specifies the remote password set for the Ethernet module.	Input
got_password	const wchar_t*	Specifies the password set for data transfer.	Input

  (b) Return value

    Successful completion : "0" is returned.

    Error completion   : A value other than "0" is returned.

  (c) Precautions

    Arguments must not be omitted.

    When a password is not set, specify "NULL" or null character strings for "remote_password" and "got_password".

(3) DT2000_ResourceUp()

  (a) Format

    lResult = DT2000_ResourceUp(up_folder, filenames, got_drive_name, remote_password, got_password);

Variable name	Variable type	Description	I/O
lResult	long	Displays the return value.	Output
up_folder	const wchar_t*	Specifies the storage location for the read resource data.	Input
filenames	const wchar_t*	Specifies the file name or path of the resource data to be read.	Input
got_drive_name	const wchar_t*	Specifies the drive (A, B, C, D, E, F, or G) of the GOT from which the resource data is read.	Input
remote_password	const wchar_t*	Specifies the remote password set for the Ethernet module.	Input
got_password	const wchar_t*	Specifies the password set for data transfer.	Input

  (b) Return value

    Successful completion : "0" is returned.

    Error completion   : A value other than "0" is returned.

  (c) Precautions

    Arguments must not be omitted.

    When a password is not set, specify "NULL" or null character strings for "remote_password" and "got_password".

(4) DT2000_CommConfig()

(a) Format

lResult = DT2000_CommConfig(type, cport, baudrate, got_ip, got_port, timeout_direct, retry_direct);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
type	const wchar_t*	Specifies the connection method. (USB, Ethernet)	Input
got_ip	const wchar_t*	Specifies the IP address of the GOT. (0.0.0.0 to 255.255.255.255) Available only when the connection method is specified to [Ethernet].	Input
got_port	const wchar_t*	Specifies the port number of the GOT. (1024 to 65534) Available only when the connection method is specified to [Ethernet].	Input
timeout_direct	const wchar_t*	Specifies the timeout time (second). (1 to 9999)	Input
retry_direct	const wchar_t*	Specifies the retry time at the timeout. (0 to 5)	Input

(b) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(c) Precautions

If an invalid value is specified, an error occurs.

If "NULL" or a null character string is specified, the communication setting does not change.

(5) DT2000_CommConfigPlc()

(a) Format

lResult = DT2000_CommConfigPlc(type, plc, cport, baudrate, pc_protocol, plc_connect_type, plc_connect_format, plc_ip, plc_host, got_network, got_station, timeout, retry);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
type	const wchar_t*	Specifies the connection method. (RS232, USB, Ethernet)	Input
plc	const wchar_t*	Specifies the PLC side interface (RCPU, QCPU, LCPU).	Input
cport	const wchar_t*	Specifies the communication port (COM1 to COM63). Available only when the connection method is specified to [RS232].	Input
baudrate	const wchar_t*	Specifies the transfer speed (baud rate) (9600, 19200, 38400, 57600, 115200). Available only when the connection method is specified to [RS232].	Input
pc_protocol	const wchar_t*	Specifies the communication protocol used in the communication between the personal computer and the PLC. (TCP, UDP) Available only when the connection method is specified to [Ethernet].	Input

Variable name	Variable type	Description	I/O
plc_connect_type	const wchar_t*	Specifies the connection method of the PLC side interface. (EthernetPort, ViaHub) Available only when the connection method is specified to [Ethernet].	Input
plc_connect_format	const wchar_t*	Specifies the destination of the PLC side interface. (Ip, HostName) Available only when the connection method is specified to [Ethernet].	Input
plc_ip	const wchar_t*	Specifies the IP address of the PLC Ethernet module. (0.0.0.0 to 255.255.255.255) Available only when the connection method is specified to [Ethernet].	Input
plc_host	const wchar_t*	Specifies the host mane of the PLC Ethernet module. (Up to 64 characters) Available only when the connection method is specified to [Ethernet].	Input
got_network	const wchar_t*	Specifies the network No. (1 to 239) of the network to which the GOT is connected.	Input
got_station	const wchar_t*	Specifies the station No. (0 to 120) of the GOT.	Input
timeout	const wchar_t*	Specifies the timeout time (1 to 9999) (second).	Input
retry	const wchar_t*	Specifies the retry time (0 to 5) at the timeout.	Input

(b) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(c) Precautions

If an invalid value is specified, an error occurs.

If "NULL" or a null character string is specified, the communication setting does not change.

(6) DT2000_CommConfigEthernetUnit()

(a) Format

lResult = DT2000_CommConfigEthernetUnit(plc, pc_protocol, pc_unit_network, pc_unit_station, unit_station, unit_connect_format, unit_ip, unit_host, unit_staion_ip_info, got_network, got_station, timeout, retry);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
plc	const wchar_t*	Specifies the PLC side interface (RJ71EN71, QJ71E71, LJ71E71).	Input
pc_protocol	const wchar_t*	Specifies the communication protocol used in the communication between the personal computer and the PLC. (TCP, UDP)	Input
pc_unit_network	const wchar_t*	Specifies the network No. (1 to 239) of the network to which the personal computer is connected.	Input
pc_unit_station	const wchar_t*	Specifies the station No. (0 to 120) of the PC side interface.	Input
unit_station	const wchar_t*	Specifies the station No. (1 to 120) of the PLC side interface.	Input
unit_connect_format	const wchar_t*	Specifies the destination of the PLC side interface. (Ip, HostName)	Input
unit_ip	const wchar_t*	Specifies the IP address of the PLC Ethernet module. (0.0.0.0 to 255.255.255.255)	Input
unit_host_name	const wchar_t*	Specifies the host mane of the PLC Ethernet module. (Up to 64 characters)	Input
unit_staion_ip_info	const wchar_t*	Specifies the method to relate the network No., station No., and IP address of the destination PLC in the communication between the destination PLC and other PLCs. Set this item according to the network parameter of the destination PLC. (autoResponseSystem, Others)	Input
got_network	const wchar_t*	Specifies the network No. (1 to 239) of the network to which the GOT is connected.	Input
got_station	const wchar_t*	Specifies the station No. (0 to 120) of the GOT.	Input
timeout	const wchar_t*	Specifies the timeout time (1 to 9999) (second).	Input
retry	const wchar_t*	Specifies the retry time (0 to 5) at the timeout.	Input

(b) Return value

Successful completion : "0" is returned.
Error completion   : A value other than "0" is returned.

(c) Precautions

If an invalid value is specified, an error occurs.
If "NULL" or a null character string is specified, the communication setting does not change.

(7) DT2000_CommTest()

(a) Format

lResult = DT2000_CommTest(remote_password);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
remote_password	const wchar_t*	Remote password set for the Ethernet module	Input

(b) Explanation

The function executes the communication test.

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

When a password is not set, specify "NULL" or a null character string for "remote_password".

(8) DT2000_GetLastCommError()

(a) Format

lResult = DT2000_GetLastCommError();

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output

(b) Explanation

The function obtains the communication error occurred in the previous communication.

(c) Return value

Error in previous communication : The communication error number of the error (error code) is returned.

No error in previous communication : "0" is returned.

(d) Precautions

The communication error is initialized when the next communication is executed.

When the error occurred in the previous communication is any other than a communication error, "0" is returned as a return value.

2 GOT1000 series

The following shows the data transfer interface functions to transfer data with the user-created application for the GOT1000 series.

Data transfer interface function	Description	Reference
long DT_Download()	Writes the project data.	(1)
long DT_DownloadEx()	Writes the project data where security is set.	(2)
long DT_DownloadEx2()	Removes the data transfer/utility password security from the write destination project data, and writes project data with security to the write destination.	(3)
long DT_INI_Download()	Writes the project data specified in the INI file.	(4)
long DT_Upload()	Reads the project data.	(5)
long DT_INI_Upload()	Reads the project data specified in the INI file.	(6)
long DT_ResourceUP()	Reads the resource data.	(7)
long DT_INI_ResourceUP()	Reads the resource data specified in the INI file.	(8)
long DT_GetDriveInfo()	Obtains the GOT drive information.	(9)
long DT_CommConfig()	Changes communication settings.	(10)
long DT_CommConfigEx()	Changes communication settings for MODEM.	(11)
long DT_CommTest()	Executes the communication test.	(12)
long DT_GetLastCommError()	Obtains the communication error data occurred in previous communication.	(13)

(1) DT_Download()

(a) Format

lResult = DT_Download(project_filename, got_drive_name, del, notreboot);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
G1_GTE_filename	const wchar_t*	Project file name (GT Designer3 project/ .GTW/ .G1/.GTE)	Input
got_drive_name	const wchar_t*	GOT drive for writing project data	Input
del	long	Setting of deleting all project data in writing (Without deletion: 0, With deletion before write: 1)	Input
notreboot	long	GOT restart setting after the write (GOT restarted: 0, GOT not restarted: 1) (Available only when the GOT is connected to the personal computer with the Ethernet connection.)	Input

(b) Explanation

The function writes the project data specified with "project_filename" to the GOT drive specified with "got_drive_name".

(c) Return value

Successful completion : "0" is returned.
Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

(2) DT_DownloadEx()

(a) Format

IResult = DT_DownloadEx(project_filename, got_drive_name, del, notreboot, project_username=" ", project_password=" ");

Variable name	Variable type	Description	I/O
IResult	long	Return value	Output
project_filename	const wchar_t*	Project file name (GT Designer3 project/ .GTW/ .G1/.GTE)	Input
got_drive_name	const wchar_t*	GOT drive for writing project data	Input
del	long	Setting of deleting all project data in writing (Without deletion: 0, With deletion before write: 1)	Input
notreboot	long	GOT restart setting after the write (GOT restarted: 0, GOT not restarted: 1) (Available only when the GOT is connected to the personal computer with the Ethernet connection.)	Input
project_username	const wchar_t*	Project user name	Input
project_password	const wchar_t*	Project password	Input

(b) Explanation

The function writes the project data where security is set specified with "project_filename" to the GOT drive specified with "got_drive_name".

The project can be authenticated by specifying "project_username" and "project_password".

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

The user name and the password are omissible. Arguments other than the user name and the password cannot be omitted. A null character string enters when the user name and the password are omitted.

(3) DT_DownloadEx2()

(a) Format

IResult = DT_DownloadEx2(project_filename, got_drive_name, del, notreboot, project_username=" ", project_password=" ", password);

Variable name	Variable type	Description	I/O
IResult	long	Return value	Output
project_filename	const wchar_t*	Project file name (GT Designer3 project/ .GTW/ .G1/.GTE)	Input
got_drive_name	const wchar_t*	GOT drive for writing project data	Input
del	long	Setting of deleting all project data in writing (Without deletion: 0, With deletion before write: 1)	Input
notreboot	long	GOT restart setting after the write (GOT restarted: 0, GOT not restarted: 1) (Available only when the GOT is connected to the personal computer with the Ethernet connection.)	Input
project_username	const wchar_t*	Project user name	Input
project_password	const wchar_t*	Project password	Input
password	const wchar_t*	Data transfer/utility password set for the write destination project data (When 1 is specified for "del", this variable is not required.)	Input

(b) Explanation

The function writes the project data where security is set specified with "project_filename" to the GOT drive specified with "got_drive_name".
The project can be authenticated by specifying "project_username" and "project_password".
Specifying "password" can remove the data transfer/utility password security from the write destination project data.

(c) Return value

Successful completion : "0" is returned.
Error completion : A value other than "0" is returned.

(d) Precautions

The user name and the password are omissible. Arguments other than the user name and the password cannot be omitted. A null character string enters when the user name and the password are omitted.

(4) DT_INI_Download()

(a) Format

lResult = DT_INI_Download(INI_filename);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
INI_filename	const wchar_t*	File name of the INI file that specifies project data to be written	Input

(b) Explanation

The function writes the project data using the INI file specified with "INI_filename".

For the details of the INI file, refer to the following.

☞ 5.3 INI File

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

(5) DT_Upload()

(a) Format

lResult = DT_Upload(G1_filename, got_drive_name, password);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
G1_filename	const wchar_t*	Name of the file that stores the read project data	Input
got_drive_name	const wchar_t*	GOT drive that reads project data	Input
password	const wchar_t*	Data transfer or utility startup password set with GT Designer3/GT Designer2	Input

(b) Explanation

The function reads a project data stored in the GOT drive specified with "got_drive_name" and then stores the data with the file name specified with "G1_filename".

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

If a password is not set, specify "NULL" or a null character string for the password.

(6) DT_INI_Upload()

(a) Format

lResult = DT_INI_Upload(INI_filename);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
INI_filename	const wchar_t*	File name of the INI file that specifies project data to be read	Input

(b) Explanation

The function reads a project data using the INI file specified with "INI_filename".

For the details of the INI file, refer to the following.

☞ 5.3 INI File

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

(7) DT_ResourceUp()

(a) Format

lResult = DT_ResourceUp(up_folder, filenames, got_drive_name);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
up_folder	const wchar_t*	Folder of resource data to be read	Input
filenames	const wchar_t*	File name or path of resource data to be read	Input
got_drive_name	const wchar_t*	GOT drive that reads resource data	Input

(b) Explanation

The function reads the resource data, which is specified with "filenames", stored in the GOT drive specified with "got_drive_name" and then stores the data in the path specified with "up_folder".

For "filenames", multiple file names and paths can be specified by separating each variable with a space.

If "all" is specified for "filenames", all resource data in the specified drive are read.

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

(8) DT_INI_ResourceUp()

(a) Format

lResult = DT_INI_ResourceUp(INI_filename);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
INI_filename	const wchar_t*	File name of the INI file that specifies resource data to be read	Input

(b) Explanation

The function reads the resource data using the INI file specified with "INI_filename".

For the details of the INI file, refer to the following.

☞ 5.3 INI File

(c) Return value

Successful completion : "0" is returned.

Error completion   : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

(9) DT_GetDriveInfo()

(a) Format

lResult = DT_GetDriveInfo(INI_filename, got_drive_name);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
INI_filename	const wchar_t*	File name or path of resource data	Input
got_drive_name	const wchar_t*	GOT drive that reads resource data	Input

(b) Explanation

The function obtains the project information and resource data file information from the GOT drive specified with "got_drive_name" and then stores the data in the INI file specified with "INI_filename".

(c) Return value

Successful completion : "0" is returned.

Error completion   : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

(10) DT_CommConfig()

(a) Format

lResult = DT_CommConfig(type, cport, baudrate, ip, port);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
type	const wchar_t*	Connection method between a personal computer and the GOT (RS232, USB, Ethernet, Modem)	Input
cport	const wchar_t*	RS232 transfer port (COM1 to COM63)	Input
baudrate	const wchar_t*	RS232 transfer speed (9600, 19200, 38400, 57600, 115200)	Input
ip	const wchar_t*	Ethernet IP address	Input
port	const wchar_t*	Ethernet port number (1024 to 65534)	Input

(b) Explanation

The function changes communication settings to the settings specified with "type" for the communication method, "cport" for the RS-232 transfer port, "baudrate" for the transfer speed, "ip" for the Ethernet IP address, and "port" for the port number.

(c) Return value

Successful completion : "0" is returned.
Error completion : A value other than "0" is returned.

(d) Precautions

If an invalid value is specified, an error occurs.
If "NULL" or a null character string is specified, the communication setting does not change.

(11) DT_CommConfigEx()

(a) Format

lResult = DT_CommConfigEx(type, cport, baudrate, ip, port, mport, mbaudrate, databit, parity, stopbit, timeout);

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output
type	const wchar_t*	Connection method between a personal computer and the GOT (RS232, USB, Ethernet, Modem)	Input
cport	const wchar_t*	RS232 transfer port (COM1 to COM63)	Input
baudrate	const wchar_t*	RS232 transfer speed (9600, 19200, 38400, 57600, 115200)	Input
ip	const wchar_t*	Ethernet IP address	Input
port	const wchar_t*	Ethernet port number (1024 to 65534)	Input
mport	const wchar_t*	MODEM transfer port (COM1 to COM63)	Input
mbaudrate	const wchar_t*	MODEM transfer speed (9600, 19200, 38400, 57600, 115200)	Input
databit	const wchar_t*	MODEM databit(8)	Input
parity	const wchar_t*	MODEM parity(Odd, Even, None)	Input
stopbit	const wchar_t*	MODEM stopbit(1, 2)	Input
timeout	const wchar_t*	MODEM timeout(1 to 90)	Input

(b) Explanation

The function changes communication settings to the settings specified with "type" for the communication method, "cport" for the RS-232 transfer port, "baudrate" for the transfer speed, "ip" for the Ethernet IP address, "port" for the port number, "mport" for the MODEM port number, "mbaudrate" for the MODEM transfer speed, "databit" for the MODEM databit, "parity" for MODEM parity, "stopbit" for MODEM stopbit, and "timeout" for MODEM timeout.

(c) Return value

Successful completion : "0" is returned.

Error completion   : A value other than "0" is returned.

(d) Precautions

If an invalid value is specified, an error occurs.

If "NULL" or a null character string is specified, the communication setting does not change.

(12) DT_CommTest()

(a) Format

lResult = DT_CommTest();

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output

(b) Explanation

The function executes the communication test.

(c) Return value

Successful completion : "0" is returned.

Error completion   : A value other than "0" is returned.

(13) DT_GetLastCommError()

(a) Format

lResult = DT_GetLastCommError();

Variable name	Variable type	Description	I/O
lResult	long	Return value	Output

(b) Explanation

The function obtains the communication error occurred in the previous communication.

(c) Return value

Error in previous communication   : The communication error number of the error (error code) is returned.

No error in previous communication : "0" is returned.

(d) Precautions

The communication error is initialized when the next communication is executed.

When the error occurred in the previous communication is any other than a communication error, "0" is returned as a return value.

6.3 Resource Data Conversion Interface Function

1 GOT2000 series

The following shows the resource data conversion interface functions to convert the resource data with the user-created application for the GOT2000 series.

Data transfer interface function	Description	Reference
int ConvertFile2000_Recipe()	Converts the recipe file.	(1)
int ConvertFile2000_OPELOG()	Converts the operation log file.	(2)
int ConvertFile2000_LOGGING()	Converts the logging file.	(3)
int ConvertFile2000_Alarm()	Converts the alarm log file.	(4)

(1) int ConvertFile2000_Recipe()

(a) Format

lReturn = ConvertFile2000_Recipe(p_OriginalConversionFile, p_AfterFileType);

Variable name	Variable type	Description	I/O
lReturn	int	Return value	Output
p_OriginalConversionFile	const wchar_t*	Resource data to be converted (absolute path)	Input
p_AfterFileType	const wchar_t*	Extension of the file after conversion (CSV file: CSV, Unicode Text file: TXT, Binary file: G2P)	Input

(b) Explanation

The function converts the resource data specified with "p_OriginalConversionFile" to the file with the extension specified with "p_AfterFileType" to return the conversion result.

(c) Return value

Successful completion : "0" is returned.
Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.
When a Unicode Text file or a CSV file is converted to a G2P file, the original G2P file before being converted to the target Unicode Text file or CSV file is required.
Store the original G2P file in the folder where the conversion source file, the Unicode Text file or CSV file, is stored.

(2) ConvertFile2000_OPELOG()

(a) Format

lReturn = ConvertFile2000_OPELOG(p_OriginalConversionFile, p_AfterFileType, p_LanguageTypeAfterConvert);

Variable name	Variable type	Description	I/O
lReturn	int	Return value	Output
p_OriginalConversionFile	const wchar_t*	Resource data to be converted (absolute path)	Input
p_AfterFileType	const wchar_t*	Extension of the converted file (CSV file: CSV, Unicode Text file: TXT)	Input

p_LanguageTypeAfterConvert	const wchar_t*	Output language of operation log (The language that can be specified varies according to the type of the converted file.)
		For CSV
		  Japanese :JPN
		  English :ENG
		For Unicode Text
		  Japanese :JPN
		  English :ENG
		  Chinese (Simplified) :CHS
		  Chinese (Traditional):CHT
		  Korean :KOR
			Input

(b) Explanation

The function converts the resource data specified with "p_OriginalConversionFile" to the file with the extension specified with "p_AfterFileType" and outputs the language specified with "p_LanguageTypeAfterConvert" to return the conversion result.

(c) Return value

Successful completion : "0" is returned.

Error completion   : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

If "NULL" is specified for "p_LanguageTypeAfterConvert", "JPN" (Japanese) is specified.

(3) ConvertFile2000_LOGGING()

(a) Format

lReturn = ConvertFile2000_LOGGING(p_OriginalConversionFile, p_AfterFileType);

Variable name	Variable type	Description	I/O
lReturn	int	Return value	Output
p_OriginalConversionFile	const wchar_t*	Resource data to be converted (absolute path)	Input
p_AfterFileType	const wchar_t*	Extension of the converted file (CSV file: CSV, Unicode Text file: TXT)	Input

(b) Explanation

The function converts the resource data specified with "p_OriginalConversionFile" to the file with the extension specified with "p_AfterFileType" to return the conversion result.

(c) Return value

Successful completion : "0" is returned.
Error completion   : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

(4) ConvertFile2000_Alarm()

(a) Format

lReturn = ConvertFile2000_Alarm(p_OriginalConversionFile, p_ProjectFile, p_AfterFileType, p_LanguageTypeAfterConvert, p_ColumnNoAferConvert, p_TargetInSamePath, p_ProjectUser, p_ProjectPassword);

Variable name	Variable type	Description	I/O
lReturn	int	Return value	Output
p_OriginalConversionFile	const wchar_t*	Resource data to be converted (absolute path)	Input
p_ProjectFile	const wchar_t*	Project data which is used to create resource data to be converted (absolute path)	Input
p_AfterFileType	const wchar_t*	Extension of the converted file (CSV file: CSV, Unicode Text file: TXT)	Input
p_LanguageTypeAfterConvert	const wchar_t*	Language of the converted file when the alarm log file (system alarm) is converted (The language which can be specified differs depending on the specified file type of the file after conversion.) For CSV 　　Japanese　　　　　:JPN 　　English　　　　　　:ENG For Unicode Text 　　Japanese　　　　　:JPN 　　English　　　　　　:ENG 　　Chinese (Simplified)　:CHS 　　Chinese (Traditional)　:CHT 　　Korean　　　　　　:KOR	Input
p_ColumnNoAfterConvert	char	Comment column No. (1 to 30) which is used to convert an alarm log file (user alarm)	Input
p_TargetInSamePath	char	Selects whether to specify the resource data in the same path as the resource data to be converted as the conversion target or not. (No: 0, Yes: 1)	Input

Variable name	Variable type	Description	I/O
p_ProjectUser	const wchar_t*	User name set in the project data	Input
p_ProjectPassword	const wchar_t*	Password set in the project data	Input

(b) Explanation

The function converts the resource data specified with "p_OriginalConversionFile" to the file with the extension specified with "p_AfterFileType".

For a system alarm, the function outputs and returns the conversion result in the language specified with "p_LanguageTypeAfterConvert".

For a user alarm, the function outputs and returns the conversion result in the comment No. specified with "p_ColumnNoAfterConvert".

When the conversion target is the resource data in the same path, the conversion log is created on the specified path.

(c) Return value

Successful completion : "0" is returned.

Error completion   : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

If "NULL" is specified for "p_LanguageTypeAfterConvert", "JPN" (Japanese) is specified.

To convert an alarm log file, the project data used to create the alarm log file is required.

When there is no project data, read one from the GOT.

2 GOT1000 series

The following shows the resource data conversion interface functions to convert the resource data with the user-created application for the GOT1000 series.

Data transfer interface function	Description	Reference
int ConvertFile_ARecipe()	Converts the advanced recipe file.	(1)
int ConvertFile_OPELOG()	Converts the operation log file.	(2)
int ConvertFile_LOGGING()	Converts the logging file.	(3)
int ConvertFile_AAlarm()	Converts the advanced alarm log file.	(4)

(1) ConvertFile_ARecipe()

(a) Format

lReturn = ConvertFile_ARecipe(p_OriginalConversionFile, p_AfterFileType);

Variable name	Variable type	Description	I/O
lReturn	int	Return value	Output
p_OriginalConversionFile	const wchar_t*	Resource data to be converted (absolute path)	Input
p_AfterFileType	const wchar_t*	Extension of the converted file (CSV file: CSV, Unicode Text file: TXT, Binary file: G1P)	Input

(b) Explanation

The function converts the resource data specified with "p_OriginalConversionFile" to the file with the extension specified with "p_AfterFileType" to return the conversion result.

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

When converting a Unicode Text file or CSV file to a G1P file, the original G1P file before being converted to the target Unicode Text file or CSV file is required.

Store the original G1P file in the folder with the same path as the Unicode Text file or CSV file of the conversion source file.

(2) ConvertFile_OPELOG()

(a) Format

lReturn = ConvertFile_OPELOG(p_OriginalConversionFile, p_AfterFileType, p_LanguageTypeAfterConvert);

Variable name	Variable type	Description	I/O
lReturn	int	Return value	Output
p_OriginalConversionFile	const wchar_t*	Resource data to be converted (absolute path)	Input
p_AfterFileType	const wchar_t*	Extension of the converted file (CSV file: CSV, Unicode Text file: TXT)	Input
p_LanguageTypeAfterConvert	const wchar_t*	Output language of operation log (The language that can be specified varies according to the type of the converted file.) For CSV 　　Japanese　　　　　　:JPN 　　English　　　　　　　:ENG For Unicode Text 　　Japanese　　　　　　:JPN 　　English　　　　　　　:ENG 　　Chinese (Simplified) :CHS 　　Chinese (Traditional):CHT 　　Korean　　　　　　　:KOR 　　German　　　　　　　:GER	Input

(b) Explanation

The function converts the resource data specified with "p_OriginalConversionFile" to the file with the extension specified with "p_AfterFileType" and outputs the language specified with "p_LanguageTypeAfterConvert" to return the conversion result.

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

If "NULL" is specified for "p_LanguageTypeAfterConvert", "JPN" (Japanese) is specified.

(3) ConvertFile_LOGGING()

(a) Format

lReturn = ConvertFile_LOGGING(p_OriginalConversionFile, p_AfterFileType);

Variable name	Variable type	Description	I/O
lReturn	int	Return value	Output
p_OriginalConversionFile	const wchar_t*	Resource data to be converted (absolute path)	Input
p_AfterFileType	const wchar_t*	Extension of the converted file (CSV file: CSV, Unicode Text file: TXT)	Input

(b) Explanation

The function converts the resource data specified with "p_OriginalConversionFile" to the file with the extension specified with "p_AfterFileType" to return the conversion result.

(c) Return value

Successful completion : "0" is returned.

Error completion　　　 : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

(4) ConvertFile_AAlarm()

(a) Format

lReturn = ConvertFile_AAlarm(p_OriginalConversionFile, p_ProjectFile, p_AfterFileType, p_LanguageTypeAfterConvert, p_GenerationLocation, p_ColumnNoAfterConvert, p_TargetInSamePath, p_ProjectUser, p_ProjectPassword)

Variable name	Variable type	Description	I/O
lReturn	int	Return value	Output
p_OriginalConversionFile	const wchar_t*	Resource data to be converted (absolute path)	Input
p_ProjectFile	const wchar_t*	Project data which is used to create resource data to be converted (absolute path)	Input
p_AfterFileType	const wchar_t*	Extension of the converted file (CSV file: CSV, Unicode Text file: TXT)	Input
p_LanguageTypeAfterConvert	const wchar_t*	Language of the converted file when converting advanced alarm log files (advanced system alarms) (The language which can be specified varies according to the type of the specified converted file.) For CSV 　　　　Japanese　　　　　　:JPN 　　　　English　　　　　　　:ENG For Unicode Text 　　　　Japanese　　　　　　:JPN 　　　　English　　　　　　　:ENG 　　　　Chinese (Simplified)　:CHS 　　　　Chinese (Traditional)　:CHT 　　　　Korean　　　　　　　:KOR 　　　　German　　　　　　　:GER	Input

Variable name	Variable type	Description	I/O
p_GenerationLocation	const wchar_t*	Specifies the location where the advanced alarm log file is created. For GOT main unit : GOT For GT SoftGOT1000 (when SoftGOT-GOT link function is used) : SGOTLINK For GT SoftGOT1000 (when SoftGOT-GOT link function is not used) : SGOT For GT Simulator3/GT Simulator2 : GSS	Input
p_ColumnNoAfterConvert	char	Comment column No. which is used to convert an advanced alarm log file (advanced user alarm). (1 to 10)	Input
p_TargetInSamePath	char	Selects whether to specify the resource data in the same path as the resource data to be converted as the conversion target or not. (no: 0, yes: 1)	Input
p_ProjectUser	const wchar_t*	User name set in the project data	Input
p_ProjectPassword	const wchar_t*	Password set in the project data	Input

(b) Explanation

The function converts the resource data specified with "p_OriginalConversionFile" to the file with the extension specified with "p_AfterFileType".

For an advanced system alarm, the function outputs and returns the conversion result in the language specified with "p_LanguageTypeAfterConvert".

For an advanced user alarm, the function outputs and returns the conversion result in the comment No. specified with "p_ColumnNoAfterConvert".

When the conversion target is the resource data in the same path, the conversion log is created on the specified path.

(c) Return value

Successful completion : "0" is returned.

Error completion : A value other than "0" is returned.

(d) Precautions

Arguments must not be omitted.

If "NULL" is specified for "p_LanguageTypeAfterConvert", "JPN" (Japanese) is specified.

When converting an advanced alarm log file, the project data which is used to create the advanced alarm log file is required.

When there is no project data, read one from the GOT.

6.4 Return Value

The following shows the return values and descriptions of the interface function.

(1) Return value of data transfer interface function

Return value	Error and cause	Corrective action
0	The data transfer ends normally.	-
2	The specified drive name, file name, transfer file, user name, password, and security key are invalid due to the following causes. (1) Nonexistent or inaccessible files are specified. (2) The specified path does not exist. (3) The invalid file is specified. (4) The project data is invalid. (5) The user-name or password of the project data is invalid. (6) The project cannot be opened with the security key registered to the personal computer.	Check the specified description.
3	Because system label update/check is not completed, the project data cannot be transmitted.	Please do the update of the label of the system of the project data to be transmitted check with GT Designer3, and put it into the state in which it doesn't make an error of the system label.
4	The specified INI file is invalid due to the following causes. (1) Nonexistent or inaccessible INI file is specified. (2) The specified path does not exist. (3) The "TransData.ini" file in the folder of the data transfer tool sets to read-only.	Check the specified INI file.
5	The specified transfer setting is invalid due to the following causes. (1) The invalid transfer setting (such as GOT drive) is specified. (2) The number of characters set to the password is out of the setting range. GOT1000 series: 9 or more characters GOT2000 series: 32 or more characters (3) The transfer data specification of the INI file is invalid.	Check if the option is specified correctly. Check the specified INI file.
6	The specified data does not exist in the GOT.	Check the data in the GOT and which drive is specified. Check the specified INI file.
7	The function fails to save the file. The storage location has a read-only file.	Check the destination file.
8	The communication setting is invalid due to the following causes. (1) The communication setting file does not exist. (2) The communication setting file is invalid.	Specify the communication setting and then execute the data transfer.
9	Because the data transfer/utility password is not set, the project data cannot be written.	Perform one of the following. • Specify the user name and password in the administrator access level to perform authentication. • Set the data transfer/utility password for the project data on GT Designer3.
21	The communication port is not open due to the following causes. (1) The personal computer is not connected to the GOT properly. (2) The communication setting is incorrect.	Check if the GOT is connected to the personal computer properly and the communication settings are correct.
22	A communication error occurs.	Obtain the error number using the following function and check the error with the list of error messages. GOT2000 series: DT2000_GetLastCommError() GOT1000 series: DT_GetLastCommError() ☞ 8 ERROR MESSAGES FOR DATA TRANSFER
23	The password is incorrect.	Check the password for data transfer or the remote password.
24	The data transfer tool cannot access the specified drive.	Check if the specified drive exists or a memory card is inserted in the specified drive.

Return value	Error and cause	Corrective action
40	The data transfer is in progress in the other processes and threads.	Check if the data transfer is not executed in the other processes and threads.
50	When "DtUser.dll" or "DtUser2000.dll" is used, the data transfer tool is not installed.	Check if the data transfer tool is installed.

(2) Return value of resource data conversion interface function

Return value	Error and cause	Corrective action
0	The data transfer ends normally.	-
1	A CSV or Unicode text file is converted into a G1P file. Since device comments are not included as the conversion target, the comments are not converted.	To convert device comments, a G1P file that includes device comments as the conversion target is required. To create the G1P file that includes device comments as the conversion target, configure the required setting of the advanced recipe function. For the setting method, refer to the following. ☞ GT Designer3 Version1 Screen Design Manual (Functions)
-1	The file cannot be converted because the file is invalid. The file may be damaged.	Check the source file to be converted.
-2	The source file to be converted does not exist in the specified path.	Check if the source file exists in the specified path.
-3	The source file cannot be converted to the file with the specified extension. The specified extension is incorrect.	Check if the source file corresponds to the converted file with the specified extension.
-4	The source language cannot be converted to the specified language. The specified output language is incorrect.	Check the specified output language.
-5	The original G1P or G2P file required for the conversion from the CSV or Unicode Text file to a G1P or G2P file does not exist in the same path as the source file.	Check if the original G1P or G2P file exists in the same path as the source file.
-6	The file required for the conversion of the operation log file or alarm log file does not exist in the install destination folder of the data transfer tool.	Check if the following files exist in the install destination folder of the data transfer tool. GOT2000 series: Sap2000, G2SYSLANGINFO.INI GOT1000 series: olConv.G1, olConv.G1D
-7	The "zlib.dll" file or "rc_conv.dll" file does not exist in the install destination folder of Data Transfer.	Check if the "zlib.dll" file or "rc_conv.dll" file exists in the install destination folder of Data Transfer.
-8	The specified project data does not exist or is broken.	Check the specified project data.
-9	The specified user name or password is different from the project data setting, or a password is not specified.	Check the user name and password set in the specified project data.
-10	The specified project data has the following problems. • The required advanced user alarm observation setting does not exist in the project data. • The required comment group setting does not exist in the project data. • The required comment column No. setting does not exist in the project data.	Specify the project data which is used to create an advanced alarm log file data to be converted.
-11	If a file in the same path is the target when the advanced alarm file (advanced user alarm) is converted, there are following problems. • The converted file cannot be written. • The conversion log cannot be created.	Check the writing authority of the specified folder.
-12	The function required for converting the advanced alarm log file (advanced user alarm) is not installed.	Reinstall the Data Transfer.
-13	This project data cannot be opened with the security key registered to the personal computer.	Import a security key that can be used for GT Designer3.

7 PRECAUTIONS

(1) Project data converted with GT Converter2

Open and save the project data converted with GT Converter2 by using GT Designer3/GT Designer2 and then use the data.

(2) Applicable file format of project data

Only the following file formats are applicable to the data transfer tool. ("*****" is an arbitrary string.)

When writing the data, all the files with the applicable file formats in the specified folder is transferred to the GOT.

When reading the data, the files are overwritten if the files in the applicable file formats exist in the folder that the data is read. Therefore, create a new folder first, and then read the data.

- (a) GOT2000 series
    - *****.GTXS

- (b) GOT1000 series
    - GT Designer3 project
    - *****.GTW
    - *****.GTE
    - G1PRJCT.G1 (Including G1PRJCT.G1d, G1STBMP.OUT/G1MESPRJ.MEP/COMM.INI/ SETUP.INI)

- (c) GOT-A900 series
    - *****.GTD
    - A9GOTP.GOT (Including *****.A9)

- (d) GOT-F900 series
    - *****.F1 (Including *****.F1d)

- (e) GOT800 series
    - A8GOTP.GOT (Including *****.A8)

(3) Difference between the GOT's OS version and the OS version of the data created on GT Designer2

Depending on the GOT to be used, the confirmation message regarding the OS version can be displayed when writing the data.

The following describes the each GOT's operations and troubleshooting.

- (a) For GOT2000 series
    Since the system applications are not written individually, a confirmation message is not displayed.

- (b) For GOT1000 series
    When the GOT's OS version is different from the OS version of the project data, the project data cannot be written.
    Use the GOT's OS with the same version or later version of the project data's OS version, and then write the project data.

Point | **Installing the OS for GOT1000 series with the data transfer tool**

Copy the OS folder (OS1000) and the setting file (GTD2SYS1000.ini) for GOT1000 series to the folder that the data transfer tool is installed (,including C:\Program Files\MELSOFT\DataTransfer).

Even though the confirmation message regarding the OS version is displayed, the project data's OS can be installed when writing the project data.

(The OS version of the project data must be the same or later version of the GOT's OS version.)

For the latest OS for the GOT1000 series, contact your local distributor.

(c) For GOT-A900 series, GOT800 series

When the GOT's OS version is different from the OS version of the monitor data, a message is displayed.

The monitor data can be kept writing. However, the GOT's OS version should be the same or later version of the monitor data's OS version.

(d) For GOT-F900 series

Checking the OS version is not executed.

The monitor data can be kept writing. However, updating the GOT's OS to the latest version is recommended.

(4) Precautions during communication

(a) The data cannot be transferred with GT Designer3/GT Designer2 during the data transferring with the data transfer tool.

(b) When the ROM BIOS version on the GOT800 series is 5.2.0[S] or earlier, set the transmission speed to 19200bps and execute the communication.

(5) Precautions for using command line and interface function

(a) If a file, whose file name is the same as the file to be transferred, exists in the destination of the data to be transferred, the file is overwritten.

(b) Edit the INI file by using software such as a text editor.

(c) Data cannot be transferred from multiple threads and processes.

(d) If a file name for a resource data includes a space, the resource data cannot be read with the file name specified.

When reading the resource data, specify "all".

(e) If nonexistent data (such as a screen number for nonexistent screen) are specified in an INI file for transferring INI file data, the only existing project data of the INI file is transferred.

(6) Transferring project data with security

To transfer the project data with the project security by using GT Designer3 Version 1.45X or later, use the following version of Data Transfer Tool and the standard monitor OS in the GOT.

Software, OS	Version
Data transfer tool	2.15R or later
Standard monitor OS	Models other than GT10: 05.37.00 or later GT10: 01.26.00 or later

If a version older than the above is used, the project data cannot be transferred successfully.

(7) Transferring data while the FA transparent function is used

While the controller programming software communicates with a controller by using the FA transparent function, transferring data may not be available.

To transfer data, make sure that the FA transparent function is not in use.

8 ERROR MESSAGES FOR DATA TRANSFER

The following shows the error messages displayed when transferring the data.

8.1 GOT2000 Series

Error No.	Error message	Error and cause	Corrective action
80100005	An error has occurred. Failed to write to the file in the personal computer.	Failed to write to the file in the personal computer.	Check that the drive to which the file is written can be written or has enough available space in the disk capacity.
80110003	An error has occurred. Please check the communication port.	The set port No. is out of the range.	Check the port No.
80110004	An error has occurred. Timeout error	Communication time error	Check the communication cable and the power of the device.
80110006	An error has occurred. The GOT is being accessed by another application.	The GOT communicates by another application.	Wait until another application ends.
80110007	An error has occurred. Quality of communication signal error. Please check communication settings.	Error by the quality of the communication line	Decrease the baud rate and perform the communication.
80110008	An error has occurred. Please check the transmission speed.	The controller does not support the set baud rate.	Check the baud rate which the controller supports.
801fa0D3	It exceeded the maximum number of relays of the network system. Please check the system configuration.	The maximum number of relays of the network system has exceeded.	Review the system configuration so that the number of relayed networks within the limit.
801fa100	The relay function does not support the GOT which is designated as a relay station.	The GOT which does not support the relay function has been specified as a relay station.	Remove the GOT which an error has occurred from the relay station.
80110009	An error has occurred. Communication error Consider the following cause. • The communication port settings are incorrect. • The cable is disconnected or broken. • The GOT is Powered OFF. • The communication setting or routing parameter of each controller is incorrect. • Dialog Window is displayed in GOT. • The remote password is set for the PLC/module which is not supported. • GOT2000 is not connected.	Packet send error	Check the line is connected.
8011000a		Communication time error	Check the GOT operates normally and perform the communication again.
80112208		USB line error (Cable is disconnected halfway.)	Check the USB cable connected to the GOT.
80112403		Socket line closed error	Perform the communication again.
80112501		Easysocket generate error	Check the following. • Easysocket is installed. • The GOT is in communication process of another connection type. • The GOT is connected correctly.
801fa30f		The specified path does not exist.	Check the specified path is correct.
801fa310		The specified path is incorrect.	Check the input path. • The reserved word is not used. • A dot is not used at the top. • A dot is not used at the end. • The path and the file name are not too long.

Error No.	Error message	Error and cause	Corrective action
80112401	An error has occurred. Unable to communicate with GOT by Ethernet. The possible causes are shown below. (1) Basic system application is not written to the GOT (2) The GOT is not turned on (3) Communication Settings are not properly set (4) GOT IP address is not properly set (5) Incorrect wiring	The GOT does not exist on the network.	Check the following. • The basic system application is written to the GOT. • The GOT is powered on. • The communication settings are set correctly. • [GOT IP Address] is set correctly in the [Communication settings] dialog. • The wiring is correct.
80112402	An error has occurred. Unable to communicate with GOT by Ethernet. The possible causes are shown below. (1) The GOT is communicating with another computer (2) GOT IP address is not properly set (3) GOT Port No. is not properly set	Socket line open error (Failed to generate a socket.)	Check the following. • The GOT is not communicating with another computer. • The communication target is not the network device excluding the GOT. • [Peripheral S/W Communication Port No.] in the [Communication configuration] dialog matches with the port No. set to the GOT.
80112405	An error has occurred. Please check the GOT is connected to the network correctly.	Network error	Please check the GOT is connected to the network correctly.
80112406	An error has occurred. Unable to communicate with GOT by Ethernet. The possible causes are shown below. (1) The GOT is communicating using the USB/RS232 (2) The GOT is not turned on	The connecting socket is disconnected forcibly.	Check the following. • The GOT is not communicating using the USB or RS232. • The GOT is powered on.
801fa000	An error has occurred. Routing parameter is insufficient in the GOT of the relay station. Please set routing parameter for the GOT.	The routing parameter set for the relay station (GOT) is incorrect.	Check the routing parameter setting of the relay station.
801fa080	An error has occurred. Information is insufficient in the GOT of the relay station Ethernet setting. Please set the Ethernet setting of the GOT.	The Ethernet setting configured for the relay station (GOT) is incorrect.	Check the routing parameter and the IP address.
801fa200	An error has occurred. Communication driver is not booted in the GOT of the relay station. Please check the GOT setting.	One of the following is the cause. • No communication driver is installed on the GOT. • The package data is corrupt. • The communication driver does not support the relay function.	Install the package data on the GOT again.
801fa304	An error has occurred. The basic system application cannot be written in this GOT H/W version. Use GT Designer3 of the appropriate version.	The hardware versions of the Boot OS and the GOT do not match.	Install the Boot OS from the appropriate version of GT Designer3.
801fa305	An error has occurred. Lid of the memory card slot of the GOT is open. Please close the lid.	The lid of the SD card slot is open.	Close the lid of the SD card slot.

Error No.	Error message	Error and cause	Corrective action
801fa306	An error has occurred. Since the write protection switch is enabled, the project data, the system application, and the resource data cannot be written or deleted. Cancel the write protection switch.	The write protection switch of the data storage is on.	Cancel the write protection switch of the data storage.
801fa309	An error has occurred. Since the drive capacity is not sufficient, the package data cannot be written.	The available space of the drive is not sufficient.	Acquire the free space by deleting unnecessary files or others. Or delete the capacity of the package data.
801fa30c 801fa30d	An error has occurred. The following drive is not installed. X: XXXXXXXXX Please check the installation of the drive.	The data storage is not connected to the specified drive.	Check the data storage is connected correctly to the specified drive.
801fa311	An error has occurred. The specified file does not exist. Update the information to the latest one. (Press the [Info Reception] button.)	The specified file does not exist.	Check if the specified file name is correct.
801fa317 801fa318	An error has occurred. The cable is disconnected/ unconnected or the GOT is in communication with another application. The possible causes are shown below. • GOT write is in process • GOT read is in process • GOT verification is in process • GOT information acquisition is in process • GOT diagnostics is in process	The possible causes are as follows. • The communication cable is broken or disconnected. • The GOT is in communication with another application.	• Check that the communication cable isconnected correctly. • Check that the GOT is not in communication with another application.
801fa31f	An error has occurred. The password is incorrect.	The input password is incorrect.	Input the correct password.
a	An error has occurred. The software installation file is damaged or incomplete. Please reinstall.	Failed to generate the object of EZSocket.	Reinstall GT Designer3.
c9	Memory card error Failed to delete the folder. Check the destination memory card exists.	Folder creating error	Check the destination data storage.
ca	Memory card error Failed to delete the folder.	Folder deleting error	Check either of the following operations. • The specified folder exists. • The specified folder is not read-only.
cc	Memory card error Failed to copy the file. The capacity of the destination memory card is full. Reduce the capacity. *The specified drive may be write protected.	File copy error	Check the following. • Capacity of the data storage • Access privilege of the destination drive When the user account control is valid, set a destination drive other than drive C.
dc	Memory card error Failed to delete the file.	File deleting error	Check either of the following operations. • The specified file exists. • The specified file is not read-only.

Error No.	Error message	Error and cause	Corrective action
132	An error has occurred. The Boot OS version that is older than the one installed to the GOT cannot be installed. The Boot OS version of GOT: BB The Boot OS version to be installed: AA	The Boot OS version that is older than the one installed to the GOT was installed to the GOT.	Install the Boot OS version that is newer than the one installed to the GOT to the GOT.
133	An error has occurred. The GOT type is incorrect or is not supported.	The GOT type acquired from the GOT and the one of the package data do not match. Or the communication with the GOT of the type which is not supported was performed.	Check the GOT type of the project and the destination GOT.
134	An error has occurred. The basic system application is not written to the GOT. Write the basic system application.	The Boot OS was started when the following processing is performed. • Installing the Boot OS • Writing the package data • Writing or acquiring the GOT identification information • Performing the processing other than writing or acquiring of the security	Write the package data again.
13a	An error has occurred. The function which is to be written and the function which is already written are competing. The selected function: %s The written function: %s * Select a synchronization in [Write Mode] of [Write Option], or write the package data after deleting the package data in [Drive Information] of [GOT Read].	Since the function which is written and the one which is already written are competing, the system application cannot be written.	Write the package data after performing either of the following operations. • Selecting [Synchronized] in [Write Option] of [Write Mode] • Deleting the package data in [Drive Information] of [GOT Read]
13d	An error has occurred. The total numbers of the communication drivers which are already installed or are installed to the GOT are five or more. (Up to four communication drivers can be installed to the GOT.) After deleting the communication driver which is already installed, install the communication driver again. * Select a synchronization in [Write Mode] of [Write Option], or write the package data after deleting the package data in [Drive Information] of [GOT Read].	In the GOT, four communication drivers are already installed. Therefore, the communication driver cannot be installed.	Write the package data after performing either of the following operations. • Selecting [Synchronize] in [Write Mode] of [Write Option] • Deleting the package data in [Drive Information] of [GOT Read]
190	An error has occurred. The package data of the memory card is started directly. The following operations cannot be performed. • Deleting the package data during the direct startup • Formatting the startup drive • Writing other package data to the startup drive	When the package data is started from the data storage directly, the following operations cannot be performed. • Deleting the package data during the direct startup • Formatting the startup drive • Writing other package data to the startup drive	Do not perform the following operations. • Deleting the package data during the direct startup • Formatting the startup drive • Writing other package data to the startup drive

Error No.	Error message	Error and cause	Corrective action
191	An error has occurred. Failed to create a file.	Failed to create a file when the resource data is read.	Check the destination folder is not read only.
192	An error has occurred. Failed to delete the folder.	Failed to create a folder when the resource data is read.	Check the destination folder is not read only.
193			The processing may recover if the processing is redone after GT Designer3 is installed again. However, the processing cannot recover when the data in the saving file is broken.
194	An error has occurred. Since the data may be broken, the processing is not completed normally.	The data is broken.	
195	An error has occurred. The package data does not exist in the destination. The package data without the project data or the basic system application cannot be written.	The basic system application is not included in the package data.	Add the basic system application and the project data in the package data.
196	An error has occurred. The system major version of the package data in the GOT and the one of the package data to be written are different. Since the project data and the special data do not operate normally when the major version is different, the project data and the special data are deleted. The package data without the project data or the basic system application cannot be written.	This error occurs when the package data is written without selecting the project data in the [Write Option] dialog, the same package data exists in the GOT, and the system application of the different major version is written.	Write the package data after performing either of the following operations. • Selecting [Synchronize] in [Write Mode] of [Write Option] • Deleting the package data in [Drive Information] of [GOT Read]
197	An error has occurred. Multiple package data are written to the drive. The current GT Designer3 does not support the writing to the driver which has multiple package data. Therefore, update GT Designer3 to the latest version when writing the package data.	Multiple package data exist in the destination drive of the package data.	Write the package data from GT Designer3 of the latest version or write the package data to other drives.
198	An error has occurred. The package data does not exist in the specified drive.	The package data does not exist in the specified drive.	Specify the drive in which the package data is stored.
199	An error has occurred. Since the package data with the project security is written, the data cannot be written by setting the writing mode to [Select]. Change the writing mode to [Synchronize] and write the data.	The package data with the project security is written to the GOT. Therefore, the data cannot be written by setting [Write Mode] to [Select] in the [Write Option] dialog.	Write the data by setting [Write Mode] to [Synchronize] in the [Write Option] dialog.

• When errors cannot be solved with the above corrective actions or the causes of errors cannot be identified, please consult your local Mitsubishi representative.

8.2   GOT1000 Series

(1)   Communication setting

Error No.	Error message	Error and cause	Corrective action
-	Invalid communication port is using.	The communication port is not set.	Set the port that connected the communication cable to the GOT for [Port No.] in the [Communication configuration] dialog box.

(2)   GOT Write

Error No.	Error message	Error and cause	Corrective action
00000133	GOT Type error occurred.	The GOT type is different from the GOT type set in the project data.	Select the same GOT type as the GOT connected to the PC, and write the transfer data again.

00000136	The OS version of the current software and the one of the GOT are different.
	  The OS version of GOT: xx
	  The OS version of the software: xx The project data/special data cannot be written if OS versions are different.
	*OS write cannot be performed via Modem.
	Perform OS write via Standard CF Card or USB/RS232/Ethernet.
		The OS version of the GT Designer3 where the project data was created and the OS version written in the GOT differ.	• When the project data is written via modem, install the OS of the latest version on the GOT, and then write the project data.
			• Write the project data via USB, RS232, or Ethernet.
			  When the project data is written via modem, the OS is not installed simultaneously.

801f4107	GOT Memory does not have enough space.	The transfer data cannot be written because the capacity of the written data storage drive is insufficient.	Select [Drive Information] of [Read Data] in the [GOT Read] tab, and then click the [Info Reception] button to check the GOT information written to the GOT. Delete the functions and data written to the GOT, and write the data again. When [C:Built-in Flash Memory] is specified as the write destination on the GT16, GT15, GT14, or GT12, and the memory card is installed in the GOT, the project data write destination can be changed to [A:Standard CF Card] ([A:Standard SD Card] for the GT14).
-	GOT does not operate properly due to the capacity shortage of GOT RAM. Take one of the following measures. - Increase expansion memory - Reduce the project data size - Delete unnecessary special data - Adjust the buffering area size - Delete unnecessary OS data Would you like to proceed with the writing of the project, special data, and OS?	Though the write destination drive has enough space, the built-in memory and add-on memory of the GOT do not have enough space. Therefore, the written project data may not operate correctly.	Change the project data's capacity or the buffering capacity to a smaller capacity. The capacity of the option function board with add-on memory can also be changed to a larger capacity.
-	The project data cannot be transferred since System Label Update/Check is not completed.	Update of the label of the system of the project data to be transmitted/check is not completed.	Please do the update of the label of the system of the project data to be transmitted check with GT Designer3, and put it into the state in which it doesn't make an error of the system label.

(3) GOT Read

Error No.	Error message	Error and cause	Corrective action
801f4101	Password Error occurred.	The entered password is incorrect.	Enter the correct password, and read the project data again.
-	The specified drive, folder and file names are incorrect. Please check the following : • The specified drive does not exist. • A reserved word is used for the folder and file names. • Incorrect characters are used for the folder and file names.	The invalid drive, folder name, or file name is specified.	Check the following for the specified drive, folder name, or file name. • Check if the specified drive exists. • Check if reserved words for GOT are not used in the folder name or file name. • Check if prohibited characters for Windows are not used in the folder name or file name.

(4) GOT Read (Resource data)

Error No.	Error message	Error and cause	Corrective action
80100005	The file in the p.c. cannot be written.	The file cannot be written into the drive on the PC because of any of the following causes. (1) The target drive is unwritable. (2) The target drive has insufficient free space.	Check the following. (1) Check if the target drive is writable. (2) Check if the target drive has enough free space.

(5) Communication

Error No.	Error message	Error and cause	Corrective action
00000134	Standard monitor OS is not written. Write Standard monitor OS.	Because only the Boot OS is installed on the GOT, the communications, excluding the OS install, cannot be executed.	Install the standard monitor OS.

00000135	The possible causes are shown below.
	(1) The GOT is in processing
	  Wait for 60 seconds and retry.
	(2) GOT Type does not match
	  Check if connected GOT Type matches.
	(3) Connection setting does not match.
	  Check if the communication setting of each controller matches.
		The communication cannot be executed because of the following causes.
		(1) The communication cannot be executed because the GOT extecutes processing.
		(2) The GOT type set in the data transfer tool is different from the GOT currently connected to the PC.
		(3) The modem setting is incorrect.
			(1) The GOT takes 60 seconds to terminate the processing.
			  After 60 seconds, execute the communication again.
			  When the communication cannot be executed even after 60 seconds, check the GOT's status.
			(2) Check if the GOT connected to the PC is the same as the GOT type set in the data transfer tool.
			(3) Check if the modem setting is set correctly.

80110003	Please check Communication Port.	The setting for the communication port is incorrect.	Set the port that connected the communication cable to the GOT for [Port No.] in the [Communication configuration] dialog box.
80110004	Time out error.	The cable is unplugged or disconnected.	• Check if the cable is connected correctly.
		The GOT does not respond.	• Check if the GOT is powered on. • Execute the I/O check with the utility function of the GOT. • When using the USB cable, remove the USB cable from the GOT for five seconds or more. • When using the USB cable, power off the GOT and then power on the GOT again.
		Because the communication with the GOT is unstable, the communication error occurs.	For the RS-232 communication, set a value lower than the currently specified value for [Baudrate] in the [Communication configuration] dialog box.

Error No.	Error message	Error and cause	Corrective action
80110006	The GOT is being accessed by another application.	Because the GOT communicates with the other applications, the communication cannot be executed.	Check if the GOT does not communicate with the other applications. When using GX Developer, check if the screen for monitoring is not open. If the screen is open, close the screen or stop monitoring.
80110007	Quality of communication signal error. Please check communication settings.	Because the communication with the GOT is unstable, the communication error occurs.	For the RS-232 communication, set a value lower than the currently specified value for [Baudrate] in the [Communication configuration] dialog box.
80110008	Please check Baud rate.	The setting for the transmission speed is incorrect.	Set a value for [Baudrate] again in the [Communication configuration] dialog box.
80110009	Send error.	The data cannot be sent to the GOT.	• When using the USB cable, remove the USB cable from the GOT for five seconds or more. • Power off the GOT, and then power on the GOT again.
80112001 80112202 80112005 80112208 801f4100	Communication error Consider the following cause. • The communication port settings are incorrect. • The cable is disconnected or broken. • The GOT is Powered OFF. • The communication setting of each controller is incorrect. • Dialog Window is displayed in GOT.	The cable is unplugged or disconnected.	• Check the setting for the communication port. • Check if the cable is connected correctly.
		The GOT does not respond.	• Check if the GOT is powered on. • Execute the I/O check with the utility function of the GOT.
		When the GOT is connected via a modem, GOT Modem Connection Tool is not active.	• Start GOT Modem Connection Tool, and then establish the communication between the personal computer and the modem.
		Communication fails because the dialog window is displayed on the GOT.	• Close the dialog window on the GOT.
		The cable is unplugged or disconnected during the communication.	• Check if the USB cable is connected correctly.
		The GOT does not respond.	• Check if the GOT is powered on.
-	The following Drive is not inserted. X:XXXXXX Please check the installation of Drive.	The specified drive cannot be accessed.	Check if the specified drive is installed on the GOT.
80112401	Unable to communicate with GOT via Ethernet. The possible causes are shown below. (1) Standard monitor OS is not written in the GOT (2) The Standard monitor OS does not support Ethernet Download function (3) The GOT is not turned on (4) Communication Settings are not properly set (5) GOT IP address is not properly set (6) Incorrect wiring *OS write cannot be performed via Modem. Perform OS write via Standard CF Card or USB/RS232/Ethernet.	The communication with the GOT via the Ethernet cannot be executed because of one of the following causes. (1) The standard monitor OS is not installed on the GOT. (2) The standard monitor OS of the GOT does not support the Ethernet download function. (3) The GOT is not powered on. (4) The communication setting is not set correctly. (5) The GOT IP address is not set correctly. (6) The wiring is incorrect.	Check the following. (1) Check if the standard monitor OS is installed on the GOT. (2) Check if the standard monitor OS of the GOT supports the Ethernet download function. (3) Check if the GOT is powered on. (4) Check if the communication setting is set correctly. (5) Check if the GOT IP address is set correctly. (6) Check if the wiring is correct.

Error No.	Error message	Error and cause	Corrective action
80112402	An error has occurred, the GOT and PC cannot communicate via Ethernet. Following causes can be considered. (1) GOT is communicating with another PC. (2) GOT IP Address is incorrect. (3) GOT Port No. is incorrect.	The communication with the GOT via the Ethernet cannot be executed because of one of the following causes. (1) The GOT communicates with the other PCs. (2) The GOT IP address is not set correctly. (3) The GOT port No. is not set correctly.	Check the following. (1) Check if the GOT does not communicate with the other PCs. (2) Check if the GOT IP address is set correctly. (3) Check if the GOT port No. is set correctly.
80112405	Please check if both GOT and PC are properly connected together via Ethernet cabling.	The communication cannot be executed because the GOT is not connected to the network correctly.	Check if the GOT is connected to the network correctly.
80112406	An error has occurred, the GOT and PC cannot communicate via Ethernet. Following causes can be considered. (1) GOT is communicating by USB or RS232. (2) The GOT is Powered OFF.	The communication cannot be executed because the GOT communicates via the USB or RS232, or the GOT is powered off.	Check if the GOT communicates via the USB or RS232. Check if the GOT is powered off.
801f42c4	GOT restricts the communication with Ethernet. Unable to communicate with GOT via Ethernet.	Communication via Ethernet fails because the GOT restricts the communication via Ethernet.	Establish communication by either of the following methods. Enable communication of the GOT with Ethernet.(GS454) ☞ GT Designer3 Version1 Screen Dessign Manual (Fundamentals) Establish communication by other method than Ethernet.
801f42c5	Communication error	Because the version of Data Transfer Tool is old, the software does not support the functions set for the project data.	Use version 2.15R or later of Data Transfer Tool.

• When errors cannot be solved with the above corrective actions or the causes of errors cannot be identified, please consult your local Mitsubishi representative.

8.3   GOT900 Series, GOT800 Series

(1) Communication

Error No.	Error message	Error and cause	Corrective action
0008 to 0014	Please make sure of communication.	The transfer data communicated with the GOT have errors.	Check the cable.
0015	Please make sure of transferring data size.	Because the GOT's built-in memory capacity became insufficient during writing, the data cannot be written	Check the GOT information written to the GOT by clicking the [Info Reception] button in the [Memory information] tab, and then write the data again.
0257	File write error	Because the read data storage capacity is insufficient, the transfer data cannot be read.	Specify the storage location with an enough capacity as the read data storage.
0259	Timeout error	The cable is unplugged. The cable is disconnected.	Check the cable.
0259	Timeout error	The GOT does not respond.	Check if the GOT is powered on.
0259	Timeout error	Because the communication with the GOT is unstable, the communication error occurs.	Set a value lower than the currently specified value for [Baudrate] in the Communication configuration tab.
0260	Port open error	The invalid communication port is set.	Set the port that connected the communication cable to the GOT for [Port No.] in the Communication configuration tab.
0263	Receive error	The data cannot be received from the GOT. The received data from the GOT have errors.	Check the cable.
0264	Send error	The data cannot be sent to the GOT.	Check the cable.
0270	Transfer size error	Because the capacity of the written data storage drive is insufficient, the transfer data cannot be written.	Check the GOT information written to the GOT by clicking the [Info Reception] button in the [Memory information] tab, and then write the data again..
0285	Password Error	The entered password is incorrect.	Enter the correct password.
0289	GOT type error	The PC communicates with GOTs other than the GOT-A900 series on the data transfer tool for GOT-A900 series.	Select the same GOT type as the GOT connected to the PC.
0289	GOT type error	The PC communicates with GOTs other than the GOT-F900 series on the data transfer tool for GOT-F900 series.	Select the same GOT type as the GOT connected to the PC.
-	The specified drive, folder and file names are incorrect. Please check the following : (1) The specified drive does not exist. (2) A reserved word is used for the folder and file names. (3) Incorrect characters are used for the folder and file names.	The invalid drive, folder name, or file name is specified.	Check the following for the specified drive, folder name, or file name. (1) Check if the specified drive does not exist. (2) Check if reserved words for GOT are used in the folder name or file name. (3) Check if prohibited characters for Windows are used in the folder name or file name.
-	Invalid communication port is using.	The communication port is not set.	Set the port that connected the communication cable to the GOT for [Port No.] in the [Communication configuration] dialog box.

- When errors cannot be solved with the above corrective actions or the causes of errors cannot be identified, please consult your local Mitsubishi representative.