GX Converter Version 1

Operating Manual

MITSUBISHI





MELSOFT Integrated FA Software

SW0D5C-CNVW-E

• SAFETY INSTRUCTIONS •

(Always read these instructions before using this equipment.)

When using this product, please thoroughly read this manual as well as GX Developer Operating Manual. Also, please exercise adequate safety precautions and handle the product correctly.

REVISIONS

* The manual number is given on the bottom left of the back cover.

Print Date	* Manual Number	Revision	
Apr., 1999	IB (NA)-0800004-A	First edition.	
Jun., 2001	IB (NA)-0800004-B	B CNVW corrected to be GX Converter	
		GPPW corrected to be GX Developer	
		Chapter 2, Chapter 3	
		Deletions	
Con 2001		Appendix 5	
Sep., 2001	IB (INA)-0800004-C	Correction	
		Chapter 3	
Feb., 2003	IB (NA)-0800004-D	Correction	
		SOFTWARE USER REGISTRATION, INTRODUCTION, CONTENTS, About Manuals, Section 2.1, Chapter 3, Section 3.2	
Nov., 2003	IB (NA)-0800004-E	Correction	
		Section 5.1, Section 6.3.2	
Dec., 2005	IB (NA)-0800004-F	Correction	
		Section 2.1, Section 5.1	
Jan., 2007	IB (NA)-0800004-G	Correction	
		Section 5.1, Section 6.1, Appendix 1	
Feb., 2008	IB (NA)-0800004-H	Correction	
		About the generic terms and abbreviations used in this manual, Section 2.1, Chapter 3, Section 4.1.1, Section 6.2.2	

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----- SOFTWARE USER REGISTRATION -----

After agreeing to the terms of the Software License Agreement included in the package, please access the MELFANSweb Home Page (http://www.nagoya.melco.co.jp/) and make a software user registration. (User registration is free of charge.)

You can also make a registration by faxing or mailing the "Software Registration Card" packed with the product.

1. Software Registration

You can make a software registration by accessing the MELFANSweb Home Page or faxing or mailing the "Software Registration Card" packed with the product.

After you have made a software registration, we will register the user and send the "Software registration confirmation" together with the user ID.

We will also provide the latest information, such as the new product release, version upgrade information and event information, by direct mail.

2. Notes on Contact

Please ask questions concretely and clearly using terms listed in the manual.

When requesting us to solve a problem, provide us with detailed information for reproducing the problem. In addition, contact the respective manufacturers when asking questions about the operating system (OS) or the other vender's software products

User registration is valid only in Japan.

Usage Precautions

The following describes precautions when using GX Converter.

- (1) First, please read the "Safety Precautions."
- (2) About installation

The GX Converter start by add-in to GX Developer Version 3 (SW3D5-GPPW-E) or later. Therefore, please install the GX Converter on Personal computer that have GX Developer Version 3 (SW3D5-GPPW-E) or later preinstalled. The GX Converter cannot be added in to GX Developer Version 2 (SW2D5-GPPW-E) or earlier.

(3) Multithreading communication

There are some cases where the screen will not be properly displayed while using GX Converter due to the lack of system resources. If this occurs, close GX Converter and then close GX Developer (Programs, Comment, etc.) and other applications, then restart GX Developer and GX Converter.

(4) About CPU types

Depending on type of CPU used for the GX Developer project, there are some cases where Instruction or I/O (Device) cannot be correctly converted during data conversion.

See " GX Developer Operating Manual" for details.

(5) About the file format when TEXT, CSV format files are being read by the GX Developer

The file format is fixed when export List or Device comments to a TEXT, CSV format file.

Therefore, create List or Device comments using commercial software using the file formats specified above as much as possible.

INTRODUCTION

Thank you for choosing the Mitsubishi MELSOFT Series Integrated FA software. Read this manual and make sure you understand the functions and performance of MELSOFT series thoroughly in advance to ensure correct use.

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About Manuals

The following manuals are also related to this product. In necessary, order them by quoting the details in the tables below.

Related Manuals

Manual Name	Manual Number (Model Code)
GX Developer Version 8 Operating Manual This manual contains information on creating programs, printing procedures, monitoring procedures, debugging procedures, and other on-line functions using the GX Developer. (Sold separately)	SH-080373E (13JU41)

How to read this manual

"How to read this manual" lists the sections in this manual by the objective while using the GX Converter. Please read this manual using the contents below as a reference.

(1) When you want to know the features of GX Converter (Section 1.1)

Section 1.1 describes the features of GX Converter.

(2) When you want to know the structure of GX Converter (Chapter 2)

Chapter 2 describes the operating environment and overall configuration of GX Converter.

(3) When performing Installation and Uninstallation of GX Converter (Chapter 3)

Chapter 3 describes the operating procedures when performing Installation or Uninstallation of GX Converter.

- (4) When converting TEXT, CSV format data to GX Developer format data (Chapter 4) Chapter 4 describes the operating procedures when converting TEXT, CSV format data to GX Developer format data.
- (5) When converting GX Developer format data to TEXT, CSV format data (Chapter 5)

Chapter 5 describes the operating procedures when converting GX Developer format data to TEXT, CSV format data.

(6) When you want to know about file formats (Chapter 6)

Section 6.1 describes the TEXT, CSV format file. Section 6.2 describes how to write the data when TEXT, CSV format data is Import by the GX Developer. Section 6.3 describes the data types used when export GX Developer format data as TEXT, CSV format data.

(7) When you want to know about limitations and precautions for GX Converter (Appendix 1)

Appendix 1 describes the limitations and precautions when performing Installation, Uninstallation or various types of conversion.

(8) When you want to know about GX Converter conversion error messages (Appendix 2)

Appendix 2 describes the error messages generated during data conversion.

(9) When you want to know about CADIF character-string data conversion (Appendix 3)

Appendix 3 describes the conversion of CADIF character-string data.

(10) When you want to know about the performance specifications for the GX Converter (Appendix 4)

Appendix 4 describes the performance specifications for the GX Converter.

About the generic terms and abbreviations used in this manual

This manual uses the following generic terms and abbreviations to describe the GX Converter unless otherwise specified.

Generic term/abbreviation	Description of generic term/abbreviation	
GX Converter	Abbreviation for GX Converter Version 1 (SW0D5C-CNVW-E)	
GX Developer	Generic term for GX Developer Version 3 (SW3D5-GPPW-E) or later	
GX Developer Version n (SWnD5-GPPW-E) or earlier When limited to earlier than the major version (n denotes the version n		
GX Developer Version n (SWnD5-GPPW-E) or later	When limited to later than the major version (n denotes the version number)	
CADIF character-string data Abbreviation for the character-string data converted by SW1IVD-CADIF		
GX Simulator	Generic term for GX Simulator Version 2 (SW2D5-LLT-E) or later	
Windows Vista®	Generic term of Microsoft [®] Windows Vista [®] Home Basic Operating System, Microsoft [®] Windows Vista [®] Home Premium Operating System, Microsoft [®] Windows Vista [®] Business Operating System, Microsoft [®] Windows Vista [®] Ultimate Operating System and Microsoft [®] Windows Vista [®] Enterprise Operating System	
Windows [®] XP	Generic term of Microsoft [®] Windows [®] XP Professional Operating System and Microsoft [®] Windows [®] XP Home Edition Operating System	

Product Components

The components of this product are shown below.

Туре	Product Name		Quantity
SW0D5C-CNVW-E	GX Converter Version 1 (1-license product)	(CD-ROM)	1
	End-user softwere license agreement		1
	Software registration Card		1
	License agreement		1
SW0D5C-CNVW-EA	GX Converter Version 1 (Multiple license product)	(CD-ROM)	1
	End-user softwere license agreement		1
Software registration Card		n*1	
	License agreement		1

*1: The same number of software registration cards as that of licenses are packed with the product.

NOTICES

- We don't guarantee the commercially-available Windows[®] -based software products that have been introduced in this manual.
- We hold the copyrights of this software package.
- No part of this manual may be transcribed or duplicated in any form without prior permission by Mitsubishi Electric Corporation.
- We have attempted to cover all the revisions of software and hardware, but this manual may not contain the latest revisions.
- The software of this product requires one license to be purchased per computer.
- We permit the user to use this software package (including this manual) based on the Software License Agreement.
- We are not liable for consequences or influences due to this software package (including this manual).
- The specifications of this software package and the descriptions in this manual may be altered in future without prior notice.

1. OVERVIEW

This chapter explains the overview of GX Converter and this manual. This manual describes the GX Converter, a product capable of converting TEXT, CSV format data into List or Device comments so that the GX Developer can handle, and converting List and Device comments into TEXT, CSV format data.

1.1 Features

- Conversion can be processed as a GX Developer function. Conversion can be performed without closing the GX Developer because it is an add-on function for the GX Developer.
- (2) Data can be converted by file. Conversions can be performed between commercial software (TEXT, CSV format data) and the GX Developer (List or Device comments) at the file level. (There is no need for copying and pasting.)
- (3) Sequence programs can be created using commercial software. When a program created using the TEXT,CSV format is converted to a List via GX Converter, it may be used as an actual sequence program.
- (4) Data can be created in any file format. When creating a List or Device Comments using the TEXT,CSV format, the file format can be created freely.



MEMO

1

2. SYSTEM CONFIGURATION AND SPECIFICATIONS

This chapter explains the operating environment and overall configuration of the GX Converter.

2.1 Operating Environment

Item		Description		
Installation (Add-in) destination *1		Add-in to GX Developer (SW3D5C-GPPW-E, SW8D5C-GPPW-C or later).		
Computer main unit		Personal computer on which Windows [®] operates.		
	CPU	Refer to the following table "Used operating system and performance required for		
	Required memory	personal computer".		
Гисс	For installation	25MB or more		
space	For operation (Virtual memory) *2	10MB or more		
Disk drive		CD-ROM disk drive		
Display		$800 imes 600$ dot or more resolution (1024 $ imes$ 768 or higher for Windows Vista $^{\scriptscriptstyle (\! R \!)}$)		
Operating system *3		Microsoft® Windows® 95 Operating System Microsoft® Windows® 98 Operating System Microsoft® Windows® Millennium Edition Operating System Microsoft® Windows NT® Workstation Operating System Version 4.0 Microsoft® Windows® 2000 Professional Operating System		
		Microsoft® Windows® XP Professional Operating System Microsoft® Windows® XP Home Edition Operating System Microsoft® Windows Vista® Home Basic Operating System Microsoft® Windows Vista® Home Premium Operating System Microsoft® Windows Vista® Business Operating System Microsoft® Windows Vista® Ultimate Operating System Microsoft® Windows Vista® Enterprise Operating System		

*1: GX Converter cannot be installed into GX Developer (SW0D5C-GPPW-E, SW1D5C -GPPW-E, SW2D5C -GPPW-E). GX Converter becomes unusable if the version (SW0D5C -GPPW-E, SW1D5C -GPPW-E, SW2D5C -GPPW-E) of GX Developer (SW2D5C-GPPW-E or earlier) is reinstalled in the environment where GX Converter has already been installed into GX Developer (SW3D5C-GPPW-E or later).

*2: Free space of at least twice the size of the TEXT, CSV format file that will be read is required in the Windows[®] temporary drive.

*3: For details on compatible operating systems, refer to the operating environment of GX Developer.

2

Used operating system	n and performanc	e required for perso	nal computer
-----------------------	------------------	----------------------	--------------

	Performance Required for Personal Computer		
Operating system	CPU	Required memory	
Windows [®] 95	Pentium [®] 133MHz or more	32MB or more	
Windows [®] 98	Pentium [®] 133MHz or more	32MB or more	
Windows [®] Me	Pentium [®] 150MHz or more	32MB or more	
Windows NT [®] Workstation 4.0	Pentium [®] 133MHz or more	32MB or more	
Windows [®] 2000 Professional	Pentium [®] 133MHz or more	64MB or more	
Windows [®] XP	Pentium [®] 300MHz or more	128MB or more	
Windows Vista [®]	Pentium [®] 1GHz or higher	1GB or more	

POINT	
 New function 	ns of Windows®
When Windo	Dws^{\circledast} XP or Windows Vista $^{\circledast}$ is used, the following new functions
cannot be us	sed.
If any of the	following new functions is used, this product may not operate
normally.	
Start of ap	plication in Windows [®] compatible mode
Fast user s	switching
Remote de	esktop
Big fonts (I	Details setting of Screen properties)
64-bit oper	ating system

2.2 Overall Configuration

This section explains the overall configuration of the GX Converter.



3. INSTALLATION AND UNINSTALLATION

This chapter explains how to install and uninstall the product.

3.1 Installation

3.1.1 Installing Procedure

Install GX Converter in the following procedure.



3.1.2 Installing Operation

Before starting installation, confirm the following.

POINT

- Terminate all the other applications running under Microsoft[®] Windows[®] Operating System before installation.
- The installer may not work normally because the update program of operating system or other companies' software such as Windows Update and java update may start automatically. Please install the driver after changing the setting of the update program not to start automatically.
- When using Windows NT[®] Workstation Operating System Version 4.0, Microsoft[®] Windows[®] 2000 Professional Operating System, Windows[®] XP, Windows Vista[®], logon as a user who has the attributes of an Administrator (for computer management).
- Install GX Developer (SW3D5C-GPPW-E, SW8D5C-GPPW-C or later) first before installing GX Converter.
- If the license key FD is valid, installing this product enables updating. (The license volume of the older version decreases by 1 license.)
- (1) Installing the product (The screens of Windows[®] 98 are used in the explanation.)

Exploring - H:\ Ele Edit View Go Favor ⇔ → → Èm Vie Èm Agèress @ H:\	ites Iools Help ≌ vo X il ⊞•		_		
	Sw0d5c- cnvw-e (H:)	EnvMEL GX_Com Manual Update indd2.cm idde.com idde.com setup.dl	284KB 8KB 11KB	File Folder File Folder File Folder File Folder EX_ File Application Application Extension	10/6/04 4:51 PM 10/6/04 4:51 PM 10/6/04 11:30 AM 10/6/04 11:31 AM 12/17/97 6:47 PM 12/17/97 6:30 PM 12/17/97 6:29 PM
Switche crowned [H] DNav/Pice Enr/MEL Sr_Com Marcal Update QPinters	Modified: 12/17/97 6:30 PM Size: 59KB	ays1.cab _use1.cab Data pac data Marga Doub Alarga Doub Alarga Control Dictored at	200KB 65KB 1KB 016-C	Cabinet Cabinet Tars File Bick he	10/6/04 11:25 AM 10/6/04 11:25 AM 10/6/04 11:25 AM 10/6/04 11:25 AM 11:25 AM 11:25 AM 11:25 AM 11:25 AM 11:25 AM
Control Panel Control Panel Control Panel Scheduled Tasks Web Foldes My Documents Cinternet Explorer Meternet Kaplorer Meternet Kaplorer		acidat PROCHECU Setup hap Setup hap Setup hap Setup ha Setup ha Setup ha	1KB 44KB 394KB 59KB 1KB 81KB	DAT File Application Extension Bimap Image Application Configuration Settings Internet Communicati	5/6/97.2:15 PM 4/9/01.2:19 PM 10/5/04.11:30 AM 12/17/97.6:30 PM 10/6/04.11:25 AM 11/7/03.8:46 AM

1) Start Windows[®] Explorer and click the drive in which the disk has been inserted.

Double-click "Setup.exe".

On Windows[®] Explorer, choose [Start]-[Programs]-[Windows Explorer].

*: When user account control is enabled in Windows Vista[®], the following screen appears.

Click "Allow".

User Account Control	×
An unidentified program wants access to your comp	uter
Don't run the program unless you know where it's from or you've used it before.	
SETUP.EXE Unidentified Publisher	
Cancel I don't know where this program is from or what it's for.	
Allow I trust this program. I know where it's from or I've used it before.	
User Account Control helps stop unauthorized changes to your computer.	

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, , , , , , , , , , , , , , , , , , ,	
Severe This package is not in proper operating environment. Please install this package after executing \Update\DCOM95.Exe from CD-ROM.	2)
	J
Severe This package is not in proper operating environment. Please install this package after executing \Update\Axdist.Exe from CD-ROM.	
Severe This package is not in proper operating environment. Please install this package after executing \EnvMEL\Setup.Exe from CD-ROM.	Ī
]
	1
Type your name below. You must also type the name of the company you work for. Name: Mitsubishi Company: MITSUBISHI ELECTRIC Co.	3)
<back next=""> Cancel</back>	
	I
Input ProductID X Please enter the product ID of the product. Please input in single byte English characters Image: Second se	4)
< <u>B</u> ack <u>Next></u> Cancel	

- (From the previous page)
- If either of the left screens appears, perform operation in accordance with the instructions given in (a) in "(2) When message appears at start of installation".
 After the operation is over, restart installation operation.
 - If the left screen appears, perform operation in accordance with the instructions given in (b) in "(2) When message appears a start of installation".

After the operation is over, restart installation operation.

- 3) Type the name and company, and click Next>.
 - As the confirmation dialog box appears, perform operation in accordance with the message.

4) Type the product ID and click Next>.

The product ID is described in "Software User Registration Card" included with the product.

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	ous page)
\downarrow	
Severe	×
This package is not in proper operating e Please install this package after executin	nvironment. g \Update\DCOM95.Exe from CD-ROM. "]]
Severe	X
This package is not in proper operating Please install this package after execut	environment. ing \Update\Axdist.Exe from CD-ROM.
I	
Input Productio	
Please enter the pro Please input in single	Juct ID of the old product. + byte English characters
< <u>B</u> a	ck <u>N</u> ext≻ Cancel
Choose Destination Location	X
The setup will inst directory. Click [Next] to ins Click [Next] to ins Click [Conce] and installing in other Click [Cance]] for	all SWnD5-CNVW in the following tall in this directory. select the directory for directory. not installing.
Dest ination Folder	

- (From the previous page)
- 5) If either of the left screens appears, perform operation in accordance with the instructions given in (a) in "(2) When message appears at start of installation".
 After the operation is over, restart installation operation.
- 6) When the product is to be updated, the screen shown on the left appears. Type the product ID of the older product and click Next>.

The product ID of the older version is described in "Software User Registration Card" included with the product.

When newly installing the product, the left screen does not appear.

7) Specify the installation Destination Folder.If the installation Destination Folder is correct, click Next>

If you change the destination folder, click Browse and specify a new drive and folder.

*: The following screen appears in Windows Vista[®] . Click "Install this driver software anyway". This screen may appear in several times.



(To the next page)

C: ¥MELSEC¥

Browse...

< Back Next > Cancel

MELSOFT

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> The either of the following screens may appear behind the Windows Security screen. Then, press the Alt + Tab keys to bring it to the front.

Click OK on the following screens.

C:\Windows\temp\wdreg.exe Error	X
Failed to install the INF file (CA\Windows\TEMP\WINDRVR6.INF Error updating the driver (hwid: 'WINDRVR6) with the INF file: T system cannot find the file specified.	i) he
	ок
C:\Windows\temp\wdreg.exe Error	
Failed trying to install the driver	
ОК]
For Windows® XP, the following screen	n appears at
first installation.	
Click Continue.	
We checked operations in Windows [®] X never occur after installation.)	P (Problems
The following screen may appear behin	d another
screen. Then, press the Alt + Tab ke	eys to bring it

to the front.

*: For



Information
Completed the installation of this product.
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(To the next page)

8) This completes installation.

Click OK.

(From the previous page)



9) When the left screen appears on Windows Vista[®], regardless of the installation result, choose "This program installed correctly". Do not choose "Reinstall using recommended settings", because the installer installs an incorrect module.

10) Windows[®] must be rebooted if the screen shown on the left appears.

1 /

REMARK

When Windows[®] XP Professional or Windows Vista[®] is used, the icons are registered to [Start] - [All Programs] - [MELSOFT Application].

(2) When message appears at start of installation When the installation of this product starts, the "This package is not in proper operating environment" message appears, disabling normal completion of installation. In such a case, close all applications and perform the (a) to (c) operation.

(a) Installation of dcom95.exe or JAAXDIST.EXE Execute "/Update/dcom95.exe" or "/Update/Jaaxdist.exe" within the product (CD-ROM).

Then, restart the personal computer and install the product.

The exe file to be executed on the corresponding operating system is indicated below.

OS	File name
Microsoft [®] Windows [®] 95 Operating System	dcom95.exe
Microsoft [®] Windows [®] 98 Operating System	JAAXDIST.EX
	E
Microsoft [®] Windows NT [®] Workstation Operating System Version 4.0	JAAXDIST.EX
	E

(dcom95.exe and JAAXDIST.EXE are in the "Update" folder on CD-ROM.)

(b) Installation of EnvMEL

Execute "/EnvMEL/Setup.exe" within the product (CD-ROM).

Then, install the product.

 \ast : When user account control is enabled in Windows Vista $^{\scriptscriptstyle \otimes}$, the following screen appears.

Click "Allow".



* : After executing the above exe file, reinstall the product. If this product is not installed properly at this time, reboot the personal computer.

When the following screen appears on Windows Vista[®], regardless of the installation result, choose "This program installed correctly".

Program Compatibility Assistant
This program might not have installed correctly
If this program didn't install correctly, try reinstalling using settings that are compatible with this version of Windows.
Program: Setup Launcher Publisher: InstallShield Software Corporation Location: F:\EnvMEL\SETUP.EXE
Reinstall using recommended settings
This program installed correctly
Cancel
What settings are applied?

Project Edit Eind/Replace Convert View Online Diagnostics Ioc	ils Window Help
	101
Program V V Ditte V 128 10	
	45 JAN FTO 125
B TARE IN MEAN DO SILLS	Q 표표된 P
	(20)
S BU Loss topsco ⇒ Them ⇒ Them ⇒ Them ⇒ Theme ⇒ The	
Project	
Peduy Mucrov)r	
1	
¥	
MELSOFT series GX Developer (Unset	project) – [LD(Edit mode) MAIN 3
Project Edit Eind/Replace Convert	lew Online Diagnostics Tools Window
Ctrl+N	
Open project Ctrl+O	
Pr Liose project	
- gave of Other	
<u>R</u>	
Delete project	
Verity	
ΞCopy	- 농吉 영 : 그 그 글 글 글 그
Edit Data	• F0 F7 SF0 F0 F0 F7 F0 F8 SF
Change PLC type	
E	
Import file	Import from GPPQ format file
Export tile	Import from GPP <u>H</u> format file Import from CVCR/URD (compared file
Macro	Import from EXCR(DOC) (armost file
Function <u>B</u> lock	
Security operation	Import from <u>T</u> EXT,CSV format file

- (3) Confirming that the product has booted
 - 1) Select "Do not use label" and open a new project on GX Developer.

For details, refer to "GX Developer Operating Manual".

2) Confirm the [Import from TEXT, CSV format file] menu is activated in the [Project] – [Import file] menu.

3.2 Uninstallation

This section describes the operation for removing the product form the hard disk.

Uninstallation of the product



(To the next page)

1) From the Control Panel, choose and double-click "Add/Remove Programs".

To display the Control Panel, choose [Start]-[Settings]-[Control Panel].

REMARKS

When using Windows[®] XP , choose "Add or Remove Programs" from the Control Panel. Chose "Uninstall a program" on the Control Panel in

Windows Vista[®].

To display the Control Panel, choose [Start] - [Control Panel].

2) Select the software package to be deleted/modified. Choose "GX Converter".

After selection, click Add/Remove.....

The screen shown on the left is the one for Windows[®] 98. The screen displayed varies with the OS.

REMARKS

The screen shown on the left is that of Windows[®] 98. The displayed screen varies with the OS. When using Windows[®] 2000 Professional, Windows[®] XP, perform the following operation.

(a) Click "Change/Remove Programs".

- (b) Click "GX Converter".
- (c) Click Change/Remove

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١.			p	P~9~)

 \downarrow



The system indic	rates that the following shared file is no longer used by any
programs. If any	programs are still using this file and it is removed, those
programs may no	It function. Are you sure you want to remove the shared file?
Leaving this file	will not harm your system. If you are not sure what to do, it is
suggested that y	ou choose to not remove this shared component.
File name:	MELFANSweb Shortcut.URL
File name:	MELFANSweb Shortcut URL
Located in:	C:\MELSEC\



(Completion)

<For Windows Vista[®] >

Select GX Converter on the "Uninstall or change a program" screen, and click the Uninstall/Change button.

*: When user account control is enabled in Windows Vista[®] , the following screen appears. Click the Continue button.



3) Check whether you will remove the software package or not.

When uninstalling it , click Yes.

Uninstallation starts.

When not uninstalling it, click No

This returns to the preceding screen.

*: Components indecate the icons and files installed.

4) If the left screen has appeared, click the No To All button.

Clicking the Yes or Yes To All button deletes all shared files of Windows[®] compatible MELSOFT software. Therefore, when deleting the product only, click No To All button.

5) Click OK when the message indicating the end of removal has appeared.

When the message indicating completion has appeared, uninstallation is complete.

4. CONVERTING TEXT, CSV FORMAT DATA TO GX Developer FORMAT DATA

This function converts TEXT,CSV format data to List or Device comments, which are the formats that can be handled by GX Developer.

The following illustrates the operation procedure for converting TEXT,CSV format data to a List or Device comments so that the GX Developer can use.



REMARK

See Appendix 3, "Converting CADIF character-string data" for information on reading CADIF character-string data.

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4.1 Converting TEXT Format Data to GX Developer Format Data

This section explains the operation of converting TEXT format data to a List or Device comments, which are the formats the GX Developer can use.

4.1.1 Converting TEXT format data to a list

The following explains the operation of converting TEXT format data to a List, which can be used by the GX Developer.

PO	INT	

- See Section 6.2.1, "When a List is import by the GX Developer" for details on file formats.
- There may be some cases where Instruction, I/O (Device), etc. cannot be converted, depending on the CPU type of the project opened in the GX Developer. See "GX Developer Operating Manual" for details.

(1) Start GX Developer



(Continued on the next page)

Start GX Developer and open the project containing the TEXT format data you wish to import.

Start GX Converter.

 Start GX Converter by clicking on [Project] — [Import file] — [Import from TEXT, CSV format file].

4 CONVERTING TEXT, CSV FORMAT DATA TO GX Developer FORMAT DATA

MELSOFT



(3) Open file

en file					
Drive	[·c·]	• t		8-6- 8-6- 8-6-	
<u> </u>					
BUN-01					
Comment.csv					
Comment.txt					
List.csv					
Path:	C:\MELSEC\(CNVW/Files/		OK	
File name:	List.txt			Cancel	
	Taut Films (X au	. X			
File type:	T ext Files(".txi	C CSVJ	<u> </u>		

(4) Set conversion source data

	Dat	a C	Conversion	n Wizard -	Step '	l of 4)	×	
1)_		noo: Drig Cho O I	se Next, or (inal Data T <u>)</u> ose the file Delimited - <u>(</u> Fixed <u>W</u> idth	choose the l ype type that be Characters s - Fields are	Data Ty est desc euch as alignec	ribes your commas d l in column	est des data ortabs: ns with	cribes yı separate spaces	our data e each fi betwee	ield. n each	field.		
2)–	►Da	ata	Type: List			F	Start I	mport al	t Row:	1	-∺<	-	-3)
							Endlr	nport at	Row:		-∺<	H	-4)
		Dat	a Preview-										
	F	1	:Master LD	Station	lniti X0	ializat	ion s	ettin	α		-		
		3	AND		XOF								
		4	PLS		MO								
		5	LD		MO								
	L	لم ا	MOV		КI								
	-	•											
				Cano	el	< <u>B</u> a	ck.	Ne	ext >		inish]	-5)

Caution

About characters that cannot be displayed in the Data
 Preview area

Characters not displayed will be displayed with " \cdot ".

When setting conversion row

The program cannot proceed if conversion rows are set as "Start Import at Row > End Import at Row."

About tabs

Select "CSV" in step 1) for files whose contents are separated by tabs.

See Section 6.1, " About TEXT,CSV format files" for details.



(Continued on the next page)

Select the TEXT format file you wish to convert to a GX Developer List.

Set the format and conversion range of the data to be converted.

- 1) Select "TEXT."
- 2) Select "List."
- 3) Enter the Start Import at Row.
- Enter the End Import at Row.
 If the number of rows to be converted is not entered, conversion will take place until the end of the file is reached.
- 5) When the setting is complete, proceed to the next step by clicking the NEXT> button.

(From the previous page)

(5) Set delimiter location

	Da T	i ta Conve r This screen le	<mark>sion ₩iza</mark> r ets you set fi	d - Step eld widths(2 of 4 (column b	reaks).		ſ	×
		Lines with a To CRE To DEL To MO\	nrows signify ATE a breal ETE a breal /E a break li	a column < line, click < line, dout ne, click a	break. k at the de ble click o nd drag it.	esired p n the li	iosition. ne.		
		Data Previe	w						1
		L	10	20		30	40	50	
	ſ	:Master LD	Station	lnitial X0	lizatio	n set	tina	-	
1)		AND		XOF					
.,		PLS		мо					
		LD		мо					
		4		171				<u>~</u>	
			Ca	ancel	< <u>B</u> a	ack	Next >	Einish	1-2)
									- '





Caution

When setting data format

When data format are overlapped, the program cannot proceed to the next step if the overlapping data format is other than Instruction, Statement, or Note.

-2)

When "Do not Import (Skip)" is selected, conversion will not take place even if data is present in the column.

(Continued on the next page)

Separate the data to be converted into columns.

- Separate the data in the Data Preview area. (Can be separated at a maximum of 16 locations.)
 - Separating procedure Click on the location to be separated. An arrow is displayed in the delimiter location.
 - Changing delimiter locations Drag the arrow to change the delimiter location.
 - Deleting delimiter
 Double-click the arrow to clear the delimiter.
- When the setting is complete, proceed to the next step by clicking the NEXT> button.

Set the data types for the columns.

- Set data types in the Data Preview area. Select a column (the selected column becomes highlighted in black) by clicking the Data Preview area of each data column. Next, select a column data format from "Column Data Format" in the upper-right area. To select multiple settings, repeat this operation.
- When the setting is complete, proceed to the next step by clicking the NEXT> button.

(From the previous page)

(7) Set export destination data

	Data Conversion Wizard - Step of							
	This screen lets y	ou select the data for e	xport.					
1)	Data type	Instruction list	-					
3)—	Title							
4)—	Export file type	Text File	•					
			Cancel C. Ka	ob Nevt S I I	Finish -5			
				IDK HEAT 2				

Caution

• When entering a data name

If the PLC series for the project is a QnA Series, the data name must be 8 characters or less. If the PLC series for the project is A Series, FX Series, or Motion (SCPU), only the predetermined names such as MAIN and SUB1 can be used.

See "GX Developer Operating Manual" for details.

When an existing data name is entered or selected
 An overwrite verification dialog box is displayed.
 Click on the Yes button to discard and overwrite the old
 data

Click on the No button to end GX Converter.

When selecting a conversion method
 When a conversion error is generated, the content of the conversion error will be displayed after "(8) Conversion proces", regardless of selecting of the Conversion type for wrong instruction.

(Continued on the next page)

Set which project data within the GX Developer the converted data is to be export.

- Select common comment or comment by program if the data type is device comment. (This setting is available for device comment only.)
- Specify a data name for the data to be converted.
 Enter or select a data name.

The entered data name is export to the project that is currently open in the GX Developer.

- 3) Enter a Title for the data to be converted.
- 4) Select a Conversion type for wrong instruction.
 - Do not Import (Skip) Invalid instructions are disregarded and no conversion takes place.
 - To line statements Invalid instructions are converted to line statements.
 - To invalid instructions Invalid instructions are converted as instruction code errors.
- When the setting is complete, execute the conversion processing by clicking the Finish button.

4 CONVERTING TEXT, CSV FORMAT DATA TO GX Developer FORMAT DATA

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 See Section 4.3, "Handling of conversion

errors."

This processing converts TEXT format data to a List and registers it.

When each <u>Cancel</u> button is pressed, the corresponding conversion processing will be aborted.

Clicking the OK button ends the conversion processing and closes GX Converter.

If a conversion error is displayed, see to Section 4.3, "Handling of conversion errors" for details.

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4.1.2 Converting TEXT Format Data to Device Comments

The following explains the operation of converting TEXT format data to Device comments, which are the formats the GX Developer can use.

POINT

- See Section 6.2.2, "When Device comments are import by the GX Developer" for details on file formats.
- There may be some cases where Instruction, I/O (Device), etc. cannot be converted, depending on the CPU type of the project opened in the GX Developer. See "GX Developer Operating Manual" for details.

(1) Start GX Developer



(2) Start GX Converter

mport file	Þ	Import from GPP <u>Q</u> format file
Export <u>f</u> ile	•	
Macro	•	Import from <u>E</u> XGP(WIN) format file Import from FXGP(D(DS) format file
Printer set <u>u</u> p <u>P</u> rint	Ctrl+P	Import from Melsec Medoc format file(printout) Import from Melsec Medoc format file
Start new <u>G</u> PPW session		Import from <u>T</u> EXT,CSV format file

(Continued on the next page)

Start GX Developer and open the project containing the TEXT format data you wish to import.

Start GX Converter.

 Start GX Converter by clicking on [Project] — [Import file] — [Import from TEXT, CSV format file].

MELSOFT



(3) Open file

Open file					X
Drive	[-c-]	• •			
🗀 🗀 RUN-01					
BUN-02					
Comment.txt					
List.txt					
Path:	C:\MELSEC\	CNVW/Files/		OK	
File name:	Comment.txt			Cancel	
File type:	Text Files(*.tx	t, *.csv)	•		

Select the TEXT format file you wish to convert to a GX Developer Device comments.

(4) Set conversion source data

	Data Conversion Wizard - Step 1 of 4								
1)_	Choose Next, or choose the Data Type that best describes your data. Poriginal Data Type								
	Choose the file type that best describes your data								
	C Delimited - Characters such as commas or tabs separate each field.								
	Fixed Width - Fields are aligned in columns with spaces between each field.								
2)–	Data Type: Comment	-3)							
	End Import at Row:	-4)							
	Data Preview	ľ							
	1 X0 SAFETY Safety equipment								
	Z XI CUVER Safety cover								
	3 X2 READY Uperation ready								
	4 X3 OIL-M Oil pressure								
	5								
	Cancel < Back Next >	-5)							

Caution

About characters that cannot be displayed in the Data
 Preview area

Characters not displayed will be displayed with " · ".

When setting conversion row

- The program cannot proceed if conversion rows are set as "Start Import at Row > End Import at Row."
- About tabs

Select "CSV" in step 1) for files whose contents are separated by tabs.

See Section 6.1, "About TEXT,CSV format files" for details.



(Continued on the next page)

Set the format and conversion range of the data to be converted.

- 1) Select "TEXT."
- 2) Select "Comment."
- 3) Enter the Start Import at Row.
- Enter the End Import at Row.
 If the number of rows to be converted is not entered, conversion will take place until the end of the file is reached.
- 5) When the setting is complete, proceed to the next step by clicking the NEXT> button.

MELSOFT

(From the previous page)

(5) Set delimiter location



(6) Set column data



Caution

When setting data format

When data format are overlapped, the program cannot proceed to the next step if the overlapping data format is other than Device number.

-2)

When "Do not Import (Skip)" is selected, conversion will not take place even if data is present in the column.

(Continued on the next page)

Separate the data to be converted into columns.

- Separate the data in the Data Preview area. (Can be separated at a maximum of 16 locations.)
 - Separating procedure Click on the location to be separated. An arrow is displayed in the delimiter location.
 - Changing delimiter locations Drag the arrow to change the delimiter location.
 - Deleting delimiter Double-click the arrow to clear the delimiter.
- When the setting is complete, proceed to the next step by clicking the <u>NEXT></u> button.

Set the data types for the columns.

- Set data types in the Data Preview area.
 Select a column (the selected column becomes highlighted in black) by clicking the Data Preview area of each data column.
 Next, select a column data format from "Column Data Format" in the upper-right area.
 To select multiple settings, repeat this operation.
- When the setting is complete, proceed to the next step by clicking the NEXT> button.
MELSOFT

(From the previous page)

(7) Set export destination data

	Data Conversi	on Wizard - Step	4 of 4		þ	<
	This screen let:	s you select the data	for import.			
1)-	Data type	Program comment	•			
2)-	➡ Data name	MAIN	•			
3)-	—► Title					
		Cancel	< <u>B</u> ack	Next >	<u>F</u> inish	 4 −4)

Caution

• When entering a data name

If the PLC series for the project is a QnA Series, the data name must be 8 characters or less. If the PLC series for the project is A Series, FX Series, or Motion (SCPU), only the predetermined names such as MAIN and SUB1 can be used.

See " GX Developer Operating Manual" for details.

• When an existing data name is entered or selected An overwrite verification dialog box is displayed. Click on the Yes button to discard and overwrite the

old data.

Click on the No button to end GX Converter.



(Continued on the next page)

Set which project data within the GX Developer the converted data is to be export.

- 1) Select the data type for the data to be export.
- 2) Specify a data name for the data to be converted.
 Enter or select a data name.
 The entered data name is export to the project that is currently open in the GX Developer.
- 3) Enter a Title for the data to be export.
- When the setting is complete, execute the conversion processing by clicking the Finish button.

MELSOFT

(From the previous	page)
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(8) Conversion proces



Caution

• When a <u>Cancel</u> button is clicked during Converting A cancel verification dialog box is displayed.

Clicking the Yes button stops the conversion

processing.

No data will be created in the GX Developer. When overwriting, the previous data remains.

Clicking the No button continues the conversion

processing.

When a Cancel button is clicked during Registering

A cancel verification dialog box is displayed.

Clicking the Yes button stops the conversion processing.

The data registered until immediately before the cancellation are created in the GX Developer. When overwriting, the previous data are discarded. Clicking the <u>No</u> button continues the conversion processing.



(9) Close GX Converter



This processing converts TEXT format data to Device comments and registers them.

When each <u>Cancel</u> button is pressed, the corresponding conversion processing will be aborted.

Clicking the OK button ends the conversion processing and closes GX Converter.

If a conversion error is displayed, see Section 4.3, "Handling of conversion errors" for details.

4.2 Converting CSV Format Data to GX Developer Format Data

This section explains the operation of converting CSV format data to a List or Device comments, which are the formats the GX Developer can use.

4.2.1 Converting CSV format data to a list

The following explains the operation of converting CSV format data to a List, which can be used by the GX Developer.

- See Section 6.2.1, "When a List is import by the GX Developer " for details on file formats.
- There may be some cases where Instruction, I/O (Device), etc. cannot be converted, depending on the CPU type of the project opened in the GX Developer.
 See "GX Developer Operating Manual" for details.

import.

(1) Start GX Developer



Start GX Converter.

 Start GX Converter by clicking on [Project] — [Import file] — [Import from TEXT, CSV format file].

Start GX Developer and open the project

containing the CSV format data you wish to

(Continued on the next page)

MELSOFT



(3) Open file

Open file		X
Drive	[·c·] 💌 🖿	
 RUN-01 RUN-02 Comment.csv Comment.txt List.csv List.txt		
Path:	C:\MELSEC\CNVW\Files\	OK
File name:	List.csv	Cancel
File type:	Text Files(*.txt, *.csv)	

Select the CSV format file you wish to convert to a GX Developer List.

(4) Set conversion source data



Caution

About characters that cannot be displayed in the Data
 Preview area

Characters not displayed will be displayed with " \cdot ".

When setting conversion row

The program cannot proceed if conversion rows are set as "Start Import at Row > End Import at Row."

About tabs

Select "CSV" in step 1) for files whose contents are separated by tabs.

See Section 6.1, "About TEXT,CSV format files" for details.



(Continued on the next page)

Set the format and conversion range of the data to be converted.

- 1) Select "CSV."
- 2) Select "List."
- 3) Enter the Start Import at Row.
- Enter the End Import at Row.
 If the number of rows to be converted is not entered, conversion will take place until the end of the file is reached.
- 5) When the setting is complete, proceed to the next step by clicking the NEXT> button.

(From the previous page)

(5) Set delimiter location



Caution

• About data created using spreadsheet software Commas are used as the delimiters in the data created and edited using spreadsheet software.

(6) Set column data



Caution

When setting data format

When data format are overlapped, the program cannot proceed to the next step if the overlapping data format is other than Instruction.

When "Do not Import (Skip)" is selected, conversion will not take place even if data is present in the column.

(Continued on the next page)

Separate into columns by setting delimiters.

- 1) Select a delimiter for each data. (Multiple delimiters can be selected.)
 - Tab
 - Select it when using tabs as delimiters.
 - Semicolon
 Select it when using semicolons as delimiters.
 - Comma (default)
 Select it when using commas as delimiters.
 - Space Select it when using spaces as delimiters.
 - Other

When using a character other than above as the delimiter, check the checkbox and enter the character.

- 2) Verify the separated data in the Data Preview area.
- After the setting is complete, click on the NEXT> button and proceed to the next step.

Set the column data format.

- Set data types in the Data Preview area. Select a column (the selected column becomes highlighted in black) by clicking the Data Preview area of each data column. Next, select a column data format from "Column Data Format" in the upper-right area. To select multiple settings, repeat this operation.
- When the setting is complete, proceed to the next step by clicking the NEXT> button.

MELSOFT

(From the previous page)

(7) Set export destination data

	Data Conversion Wizard - Step 4 of 4 🛛 🔀	
	This screen lets you select the data for import.	
	Data type Program	
1)-	Data name MAIN	
2)-	→ Title	
3)-	Conversion type for wrong instruction Do not Import(Skip)	
	Cancel < Back Next> Emish	-4)

Caution

When entering a data name

If the PLC series for the project is a QnA Series, the data name must be 8 characters or less. If the PLC series for the project is A Series, FX Series, or Motion (SCPU), only the predetermined names such as MAIN and SUB1 can be used.

See " GX Developer Operating Manual" for details.

When an existing data name is entered or selected
 An overwrite verification dialog box is displayed.
 Click on the Yes button to discard and overwrite the old
 data.

Click on the No button to end GX Converter.

• When selecting a conversion method

When a conversion error is generated, the content of the conversion error will be displayed after "(8) Conversion proces", regardless of the selecting of Conversion type for wrong instruction.

(Continued on the next page)

Set which project data within the GX Developer the converted data is to be export.

- Specify a data name for the data to be converted.
 Enter or select a data name.
 The entered data name is export to the project that is currently open in the GX Developer.
- 2) Enter a Title for the data to be export.
- 3) Select a Conversion type for wrong instruction.
 - Do not Import (Skip) Invalid instructions are disregarded and no conversion takes place.
 - To line statements Invalid instructions are converted to line statements.
 - To invalid instructions Invalid instructions are converted as instruction code errors.
- When the setting is complete, execute the conversion processing by clicking the Finish button.

MELSOFT



(From the previous page)

Caution

• When a Cancel button is clicked

A cancel verification dialog box is displayed. Clicking the Yes button stops the conversion

processing.

No data will be created in the GX Developer. When overwriting, the previous data remains. Clicking the No button continues the conversion processing.



(9) Close GX Converter



Conversion error generated See Section 4.3, "Handling of conversion errors." This processing converts CSV format data to a List and registers it.

When each <u>Cancel</u> button is pressed, the corresponding conversion processing will be aborted.

Clicking the OK button ends the conversion processing and closes GX Converter.

If a conversion error is displayed, see Section 4.3, " Handling of conversion errors" for details.

4.2.2 Converting CSV Format Data to Device Comments

The following explains the operation of converting CSV format data to Device comments, which are the formats the GX Developer can use.

- See Section 6.2.2, "When Device comments are import by the GX Developer " for details on file formats.
- There may be some cases where Instruction, I/O (Device), etc. cannot be converted, depending on the CPU type of the project opened in the GX Developer.
 See "GX Developer Operating Manual" for details.

(1) Start GX Developer



(2) Start GX Converter

Import file Export <u>fi</u> le	۲ ۲	Import from GPPQ format file Import from GPPA format file	
Macro	Þ	Import from <u>E</u> XGP(WIN) format file Import from EXGP(<u>D</u> OS) format file	
Printer set <u>u</u> p <u>P</u> rint	Ctrl+P	Import from Melsec Medoc format file(printout) Import from Melsec Medoc format file	
Start new <u>G</u> PPW session E <u>x</u> it GPPW		Import from TEXT,CSV format file	

(Continued on the next page)

Start GX Developer and open the project containing the CSV format data you wish to import.

Start GX Converter.

 Start GX Converter by clicking on [Project] — [Import file] — [Import from TEXT, CSV format file].

MELSOFT



(3) Open file

Open file		×
Drive	[·c·] 💌 🖿	
 RUN-01 RUN-02		
Comment.txt		
Path:	C:\MELSEC\CNVW\Files\	OK
File name:	Comment.csv	Cancel
File type:	Text Files(*.txt, *.csv)	-

Select the CSV format file you wish to convert to a GX Developer Device comments.

(4) Set conversion source data



Caution

About characters that cannot be displayed in the Data
 Preview area

Characters not displayed will be displayed with " · ".

When setting conversion row

The program cannot proceed if conversion rows are set as "Start Import at Row > End Import at Row."

About tabs

Select "CSV" in step 1) for files whose contents are separated by tabs.

See Section 6.1, " About TEXT,CSV format files" for details.



(Continued on the next page)

Set the format and conversion range of the data to be converted.

- 1) Select "CSV."
- 2) Select "Comment."
- 3) Enter the Start Import at Row.
- Enter the End Import at Row.
 If the number of rows to be converted is not entered, conversion will take place until the end of the file is reached.
- 5) When the setting is complete, proceed to the next step by clicking the NEXT> button.

(From the previous page)

(5) Set delimiter



Caution

 About data created using spreadsheet software Commas are used as the delimiters in the data created and edited using spreadsheet software.

(6) Set column data



Caution

When setting data format

When data format are overlapped, the program cannot proceed to the next step if the overlapping data format is other than Device number.

When "Do not Import (Skip)" is selected, conversion will not take place even if data is present in the column.

Separate into columns by setting delimiters.

- 1) Select a delimiter for each data. (Multiple delimiters can be selected.)
 - Tab Select it when using tabs as delimiters.
 - Semicolon
 Select it when using semicolons as delimiters.
 Comma (default)
 - Select it when using commas as delimiters. • Space
 - Select it when using spaces as delimiters.
 - Other

.21

When using a character other than above as the delimiter, check the checkbox and enter the character.

- 2) Verify the separated data in the Data Preview area.
- When the setting is complete, proceed to the next step by clicking the NEXT> button.

Set the column data format.

- Set data types in the Data Preview area. Select a column (the selected column becomes highlighted in black) by clicking the Data Preview area of each data column. Next, select a column data format from "Column Data Format" in the upper-right area. To select multiple settings, repeat this operation.
- When the setting is complete, proceed to the next step by clicking the NEXT> button.

MELSOFT

(From the previous page)

(7) Set export destination data

	Data Conversi	on ₩izard - Step	4 of 4		×	1
	This screen let:	s you select the data	for import.			
1)-	→ Data type	Program comment	•			
2)-	— ➡ Data name	MAIN	•			Ŀ
3)-	→ Title					
		Cancel	< <u>B</u> ack	Next >	<u>F</u> inish	4 −4)

Caution

When entering a data name

If the PLC series for the project is a QnA Series, the data name must be 8 characters or less. If the PLC series for the project is A Series, FX Series, or Motion (SCPU), only the predetermined names such as MAIN and SUB1 can be used.

See " GX Developer Operating Manual" for details.

When an existing data name is entered or selected
 An overwrite verification dialog box is displayed.
 Click on the Yes button to discard and overwrite the old
 data.

Click on the No button to end GX Converter.



(Continued on the next page)

Set which project data within the GX Developer the converted data is to be export.

- 1) Select the data type for the data to be export.
- 2) Specify a data name for the data to be converted.
 Enter or select a data name.
 The entered data name is export to the project that is currently open in the GX Developer.
- 3) Enter a Title for the data to be export.
- When the setting is complete, execute the conversion processing by clicking the Finish button.

MELSOFT

(8) Conversion proces



Caution

• When a <u>Cancel</u> button is clicked during Converting A cancel verification dialog box is displayed. Clicking the <u>Yes</u> button stops the conversion

processing.

No data will be created in the GX Developer. When overwriting, the previous data remains.

Clicking the No button continues the conversion

processing.

When a Cancel button is clicked during Registering

A cancel verification dialog box is displayed.

Clicking the Yes button stops the conversion processing.

The data registered until immediately before the cancellation are created in the GX Developer. When overwriting, the previous data are discarded. Clicking the <u>No</u> button continues the conversion processing.



(9) Close GX Converter



This processing converts CSV format data to Device comments and registers them.

When each <u>Cancel</u> button is pressed, the corresponding conversion processing will be aborted.

Clicking the OK button ends the conversion processing and closes GX Converter.

If a conversion error is displayed, see Section 4.3, "Handling of conversion errors" for details.

4.3 Handling of conversion errors

This section explains the corrective actions when a conversion error is generated when data in TEXT, CSV format is import by the GX Developer.

(1) Conversion error display

	GX Converter
	Conversion error has occurred.
	The instruction or device is incorrect.(1 Line)
3)—	•{
	1) 2)

Caution

About the error line for an Instruction or I/O (Device)
 error

If an I/O (Device) error occurs when multiple I/O (Device) exist for a single instruction, the line number for the Instruction will be displayed as the error line number.

Verify or save the conversion error.

First perform the following operations, then correct the conversion error.

 To save the conversion errors Save the conversion error contents to a specified file by clicking on the <u>Save</u> button.

Up to 100 occurrences (lines) of errors can be saved.

- To discard conversion errors
 Click the OK button to end the conversion
 processing and then close the GX Converter.
- Up to 100 occurrences (lines) of conversion errors will be displayed.
 - When the number of conversion errors exceeds 100 occurrences (lines), the message "Convert error counter is over 100. Cancelled over 100 errors" will be displayed on line number 101.

See Appendix 2, "Conversion error message List" for detailed explanations of error messages.



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(2) Save conversion errors

	×
	8-8- 8-8- 8-8-
C:\MELSEC\CNVW\Files\	ОК
	Cancel
Text(Space delimited)(*.txt)	
	C:\MELSEC\CNVw/Files\ Text(Space delimited)(".txt)

Save the conversion error contents to a file.

The conversion error contents can be saved to a file with the desired file format (extension).

5. CONVERTING GX Developer FORMAT DATA TO TEXT, CSV FORMAT DATA

List and Device comments created by GX Developer can be converted to TEXT, CSV format data, which can be read by other commercial software.

This section describes the operation procedure for converting List and Device comments created by GX Developer to TEXT, CSV format data, which can be read by other commercial software.



5.1 Converting GX Developer Format Data to Text, CSV Format Data

This section explains the operation procedures for converting List and Device comments to TEXT, CSV format data, which can be read by other commercial software.

POINT

- GX Converter cannot be started up with projects using labels.
- See Section 6.3, "File formats when the GX Developer format data is export to a TEXT, CSV format file" for details on file formats.

(1) Start GX Developer



(2) Start GX Converter

5

Import file	•	l
Export <u>file</u>	•	Export to GPPQ format files
Macro	•	Export to GPP <u>A</u> format files Export to EXGPIW/INI format file
Printer setup		Expert to FXGP(<u>D</u> OS) format file
<u>P</u> rint	Ctrl+P	Export to <u>T</u> EXT,CSV format file
Start new <u>G</u> PPW session E <u>x</u> it GPPW		, · ,

➡

(Continued on the next page)

Start GX Developer and open the project that contains the List or Device comments you wish to convert to TEXT, CSV format data.

Start GX Converter.

 Start GX Converter by clicking on [Project] —
 [Export file] —
 [Export to TEXT, CSV format file].

5 CONVERTING GX Developer FORMAT DATA TO TEXT, CSV FORMAT DATA

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(3) Set conversion source data

Data	a Convers	sion Wizard - S	itep 1 o	of 1					×
		This screen lets y	iou selei	ct the data for	export.				
1) ——		Data type	Instru	ction list	¥				
2) ——		Data name	MAIN		•				
		Title	I						
3) ——		Export file type		Text File	•				
					Cancel	< Back	Next >	Finish	J◀

1) Select the data type for the data to be

Perform settings for the data to be

converted.

- converted.2) Select the name of the data to be converted.
 - Select from the data within the project that is currently open.
- 3) Select the file format after the conversion.
- When the setting is complete, proceed to the next step by clicking the Finish button.

Data selection by conversion format

	Convert to TEXT format	Convert to CSV format	
	Set 1) to "Instruction list".	Set 1) to "Instruction list".	
List	Select the data name 2).	Select the data name 2).	
	Set 3) to "TEXT file".	Set 3) to "CSV file".	
	Set 1) to "Common comment" or "Program	Set 1) to "Common comment" or "Program	
	comment".	comment".	
Device comment	Select the data name 2).	Select the data name 2).	
	Set 3) to "TEXT file".	Set 3) to "CSV file".	



(4) Select export destination file





(Continued on the next page)

Enter or select the filename in which to export the converted data. POINT

- 1. When using the file extension other than "csv" and "txt", type the filename and extension in the "File name" box.
 - Ex.) In the case of the extension "001", type "ABCDEFGH.001" in the "File name" box.
- 2. When using a dot "." for the filename, type the file name and extension in the "File name" box.
 - Ex.) In the case of filename "No.3", type "No.3.csv" in the "File name" box.
- 3. The file will be saved as the file type that is selected in the "File type" box on the "File Conversion Wizard". (See (3)-3) above.)

5 CONVERTING GX Developer FORMAT DATA TO TEXT, CSV FORMAT DATA

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Caution

• When a Cancel button is clicked

A cancel verification dialog box is displayed. Clicking the Yes button stops the conversion

processing.

No data will be created in the GX Developer. When overwriting, the previous data remains. Clicking the No button continues the conversion processing.



(6) Close GX Converter



Read the List or Device comments and convert to TEXT, CSV format data.

When each <u>Cancel</u> button is pressed, the corresponding conversion processing will be aborted.

Clicking the OK button ends the conversion processing and closes GX Converter.

6. FILE FORMATS

This chapter explains the formats of TEXT, CSV format file, which can be used for GX Converter conversion.

6.1 About TEXT CSV format files

- TEXT format files (delimited by spaces)
 This is a file format in which data are separated by spaces.
 - (a) Necessary commercial software
 Use a TEXT editor to create or edit List or Device comments.
 - (b) About the use of tabs
 - Do not use tabs in TEXT format files.

The GX Converter recognizes data which are separated by tabs as CSV format data.

In the CSV format, a single tab is recognized as a delimiter, so caution is necessary.

When reading data separated by tabs using GX Developer, perform conversion by selecting " TEXT format" for "Set conversion source data."

(2) CSV format files (delimited by commas)

This is a file format in which data are separated by commas. The GX Converter supports conversion of data separated by delimiters other than commas.

- (a) Necessary commercial software
 List and Device comments can be created and edited using a spreadsheet.
 Alternatively, a TEXT editor may be used.
- (b) About commas within data
 - When spreadsheet software is used Commas may be used within strings such as Statement and Comment.
 - 2) When a TEXT editor is used
 Insert double quotations before and after the string in which commas are used, when import the string to GX Developer.
 When the GX Developer export strings that include commas, it will insert double quotations before and after the strings.
- (c) About double quotations

The GX Converter recognizes and converts string data as shown below:

CSV file (within file)		GX Developer (Statement, Comment, etc.)
AB]⇔	AB
"A,B"	⇔	A,B
""AB""	⇔	"AB"
"""AB""C"""	⇔	"AB"C"

CAUTION

About double quotations in CSV format

There may be some cases in which strings in CSV files created using GX Converter are not correctly recognized or converted by some spreadsheet products available on the market.

When this happens, perform necessary actions by referring to the manual of the spreadsheet software.

Or, this problem can be resolved by opening the CSV file using a TEXT editor and adding or removing double quotations as necessary.

POINT

- (1) GX Converter cannot be started up with projects using labels.
- (2) When the TEXT, CSV format file is being import by GX Developer
 - Using the same file formats for import a TEXT, CSV format file using GX Developer and export to TEXT, CSV format file will make the subsequent operations easier.
 - When creating a List using commercial software, the Step number need not be input, since the GX Developer adds new Step number each time is r import data.
- (3) When export a List or Device comments to a TEXT, CSV format file
 - The file format cannot be changed at this time.
 - Change the file format using a commercial software package after the data export to the TEXT, CSV format file has been completed.

6.2 File formats when the GX Developer import a TEXT, CSV format file

This section explains the file formats used when the GX Developer import a TEXT, CSV format file.

POINT

GX Converter recognizes up to 17 columns of data and will not recognize data in the 18th column and beyond. Therefore, when creating data using a TEXT editor or spreadsheet, create it using 17 columns or less.

GX Converter recognizes up to 524288 lines.

6.2.1 When a List is import by the GX Developer

Column data format	Description							
Step number	1) No description necessary							
•	(Automatically added when performing conversion to GX Developer format.)							
	1) Describe Statement strings only.							
	 Describe only the Statement; e.g. "Master Station Initialization setting". 							
	A conversion error will occur if a semicolon (;) is inserted before a Statement string.							
	1 Master Station Initialization setting							
	DIS MO Describe a Line statement only.							
	6 MOV K1							
	7 D0							
	8 No. of connect count,1							
	q TO HO							
Line statement	(2) Up to 64 characters can be used.							
	(3) When the CPU type of the GX Developer project is A Series, FX Series or Motion (SCPU)							
	All descriptions become Separate statement.							
	A conversion error will occur if a " * " is inserted before a Statement string.							
	(4) When the CPU type of the GX Developer project is QnA Series							
	• Enter an " * " in front of a Statement string to make it a Separate statement; e.g. "Master							
	Station Initialization setting".							
	The " * " in front of strings that denotes a Separate statement is not counted as the number of							
	characters.							
	(5) If there is a mixture of Line statement, P/I statement and Note in the same line, a conversion							
	error will occur.							

The following explains how to describe each column data format.

Column data format				C)escrij	otion		
	(1) Describe	Instruction.						
	Conver	Conversion cannot be performed if data to be the Instruction does not exist. Do not omit						
	Instruct	ion						
		A	B	. с		D	F F	G
	1 Mast	er Station Initialization setting		4	De	escribe	Instruction only in the s	ame column.
	3		AND	XU XOF				
	4		PLS	MO				
	6		MOV	iviu K1				
Instruction	7			DO			No of connect count 1	
matraction	a		то	μο				
(CS)/ format)	(2) Instructio	n and I/O (Device) ca	n be de	scrit	bed in	the sa	ame column.	
(CSV Ionnat)	(When p	erforming conversion.	set the	colı	ımn d	ata for	rmat to "Instruction" ir	n the "Set column
	data ")	e						
		A	B		С	D	F	F G
	1 Maste	er Station Initialization setting	·····					
	3		AND XOF		•	De	scribe Instruction and I/	O (Device)
	4		PLS MO			sep	barated by a space.	
	6		MOV K1	DO				
	7		••••••				No.of connect count,1	
	(1) Describe	Instruction, Statemen	it (Line,	P/I)	and N	Note in	the same column.	
	 Conver 	sion cannot be perfor	med if d	ata	to be	the ins	struction does not exis	st. Do not omit
	Instruct	ion.						
	(Description as shown in (2) in the Instruction section above is not allowed.)							
	 Insert " 	; " for Line statement,	" [] " fo	or P/	l state	ement,	and " < > " for Note i	n before each data o
	before a	and after each data (to	o identify	y ea	ch da	ta).		
	;Mast	er Station Initial	ization	n se	ettin	g		
	LD AND	XO XOF						
	PLS	MO						
	LD	MO						
	nov	DO						
	<no.o< th=""><th>f connect count,1></th><th></th><th></th><th></th><th></th><th></th><th></th></no.o<>	f connect count,1>						
Instruction,		~						
Statement (Line, P/I),	Descr	tibe Instruction, Stateme	nt (Line,	P/I)	, and N	Note in	the same column.	
Note	include	es the Instruction column an	id I/O (De	vice)	colum	1. 1.		
	(2) Number	of characters allowed	for door	printi	on ("		" and " < > " aro over	ludad from the
(Text format)				npu	UII (, , L		
		A sharacters used.)	and for			-		
	• Up to 6	4 characters may be t		aL	ine su	ateme	/ IL.	
	• Up to 6	4 characters may be t	used for	ан	/I stat	emeni	[.	
	• Up to 3	2 characters may be u	used for	aN	lote.			
	(3) When the	e CPU type of the GX	Develop	per	orojec	t is A s	Series, FX Series or I	Motion (SCPU)
	 All desc 	criptions become Sepa	arate sta	aten	nent (l	Line, F	P/I) or Separate note.	
	A conve	ersion error will occur i	if a " * "	is ir	serte	d befo	re a Statement (Line,	P/I) string or Note
	string.							
	(4) When the	e CPU type of the GX	Develop	per	orojec	t is Qr	nA Series	
	 Enter a 	n " * " in front of each s	string to	mak	æ it a	Separ	ate statement (Line, P	P/I) or Separate note.
	The " * '	' in front of strings tha	t denote	es a	Sepa	rate st	atement (Line, P/I) or	Separate note is not
	counted	as the number of cha	aracters					

6 FILE FORMATS

Column data format	Description						
	(1) Describe I/O (Device) only.						
	A B C D E F G 1 Master Station Initialization setting LD X0 One Instruction 2 LD X0 One Instruction 3 XND X0F 4 PLS M0 5 LD M0 6 MOV K1 7 D0 If multiple I/O (Device) exist for a single instruction area blank to denote the I/O (Device).						
I/O (Device)	Describe a I/O(Device) only.						
	(2) Multiple I/O (Device) can be described in the same line.						
	6 MOV K1 D0 ↓/O (Device) are separated by 7 ✓ Spaces on the same line, same column. 8 TO HD H1 DD K1 9 ✓ Write to Master Station						
	(3) I/O (Device) can be described in the Instruction column.						
	See (2) in the description for Instruction shown above.						
	(1) Describe P/I statement strings only.						
	Describe P/I statement only; e.g. "Switch to bank 2." Describe only P/I statement using carriage returns. Describe only P/I statement using carriage r						
	(2) Up to 64 characters can be used.						
	• All descriptions become Separate P/I statements.						
	A conversion error will occur if a " * " is inserted before a Statement string.						
P/I statement	(4) When the CPU type of the GX Developer project is QnA Series						
	Insert an " * " in front of each string to make it a Separate P/I statement; e.g. "*Switch to bank						
	2." The " * " in front of strings that denotes a Separate P/I statement is not counted as the						
	number of characters.						
	(5) About P/I statement errors						
	error will occur						
	Also, if the Conversion type for wrong instruction is set to "To invalid instructions" in the "Set						
	export destination data", they will not be converted to invalid instructions.						
	(6) If there is a mixture of Line statement, P/I statement and Note in the same line, a conversion						
	error will occur.						

Description								
(1) Describe Note strings only.								
Describe Note only; e.g. "Send Buffer size setting."								
14 Describe only Note using carriage returns.								
15	1010 V			•				
16					Send Buffer size setting			
18	1010 0	Da						
19					Receive Buffer size setting			
(2) Up to 32 characters can be us	ed.							
(3) When the CPU type of the GX Developer project is an A Series, FX Series or Motion (SCPU)								
All descriptions become Separate note.								
A conversion error will occur if a " * " is inserted before a Note string.								
(4) When the CPU type of the GX Developer project is a QnA Series								
• Insert an " * " in front of each string to make it a Separate note; e.g. "*Send Buffer size setting."								
The " * " in front of strings that denotes a Separate note is not counted as the number of characters								
(5) About Note errors								
If there is no corresponding Instruction in the previous line of the Note, a conversion error will								
Also, if the Conversion type for	Also, if the Conversion type for wrong instruction is set to "To invalid in striation" in the "Set							
export destination data ", they	will no	t be co	nverte	ed to invalid in	struction			
(6) If there is a mixture of Line sta	tement	P/I st	ateme	ents and Note	in the same line, a conversion			
error will occur								
	 (1) Describe Note strings only. Describe Note only; e.g. "Se 14 15 16 17 18 19 (2) Up to 32 characters can be us (3) When the CPU type of the GX All descriptions become Sep A conversion error will occur (4) When the CPU type of the GX Insert an " * " in front of each The " * " in front of strings that characters. (5) About Note errors If there is no corresponding In occur. Also, if the Conversion type for export destination data ", they (6) If there is a mixture of Line stat error will occur. 	 (1) Describe Note strings only. Describe Note only; e.g. "Send Buff 14 15 16 17 18 19 19 (2) Up to 32 characters can be used. (3) When the CPU type of the GX Develor All descriptions become Separate rr A conversion error will occur if a " * (4) When the CPU type of the GX Develor Insert an " * " in front of each string The " * " in front of strings that denot characters. (5) About Note errors If there is no corresponding Instruction occur. Also, if the Conversion type for wrong export destination data ", they will no (6) If there is a mixture of Line statement error will occur. 	 Describe Note strings only. Describe Note only; e.g. "Send Buffer size 14 MOV H0 15 16 17 MOV H0 18 19 19 19 19 10 10 11 11 12 13 14 15 16 17 MOV H0 18 19 19 19 19 10 10 11 11 12 13 14 15 16 17 16 17 16 17 16 17 16 17 18 19 19 10 10 11 11 12 13 14 19 14 19 10 10 10 11 12 13 14 14 15 15 16 17 17 17 16 17 17 17 17 17 16 17 17 17 18 19 19 10 11 12 13 14 14 15 15 16 17 17 17 17 17 17 17 16 17 17 17 17 18 19 10 11 12 12 13 14 14 15 15 16 17 17 17 17 17 17 18 19 10 11 12 12 13 14 14 15 15 16 17 17 17 17 17 18 18 19 19 10 10 11 12 14 15 14 15 15 16 17 17 17 16 17 17 17<!--</th--><th> (1) Describe Note strings only. Describe Note only; e.g. "Send Buffer size settin 14 15 16 17 18 19 19 11 19 11 11 11 12 13 14 15 16 17 18 19 19 10 10 11 11 12 13 14 15 16 17 16 17 18 19 19 10 10 11 12 13 14 15 16 17 17 10 11 12 13 14 14 15 15 16 16 17 17 17 17 18 19 19 10 11 12 14 15 14 15 15 16 16 17 17 17 17 16 17 17 17 18 19 19 10 11 12 12 13 14 14 15 15 16 17 17 16 17 17 16 17 17 16 17 17 17 18 19 19 10 10 11 12 14 15 15 16 17 17 17 16 17 17 17 18 19 19 10 10 11 12 12 13 14 14 15 15 16 16 17 17 16<th> Description (1) Describe Note strings only. Describe Note only; e.g. "Send Buffer size setting." 14 15 16 17 18 19 (2) Up to 32 characters can be used. (3) When the CPU type of the GX Developer project is an A Series All descriptions become Separate note. A conversion error will occur if a " * " is inserted before a Note (4) When the CPU type of the GX Developer project is a QnA Series Insert an " * " in front of each string to make it a Separate note is not characters. (5) About Note errors If there is no corresponding Instruction in the previous line of thoccur. Also, if the Conversion type for wrong instruction is set to "To in export destination data ", they will not be converted to invalid in: (6) If there is a mixture of Line statement, P/I statements and Note error will occur. </th></th>	 (1) Describe Note strings only. Describe Note only; e.g. "Send Buffer size settin 14 15 16 17 18 19 19 11 19 11 11 11 12 13 14 15 16 17 18 19 19 10 10 11 11 12 13 14 15 16 17 16 17 18 19 19 10 10 11 12 13 14 15 16 17 17 10 11 12 13 14 14 15 15 16 16 17 17 17 17 18 19 19 10 11 12 14 15 14 15 15 16 16 17 17 17 17 16 17 17 17 18 19 19 10 11 12 12 13 14 14 15 15 16 17 17 16 17 17 16 17 17 16 17 17 17 18 19 19 10 10 11 12 14 15 15 16 17 17 17 16 17 17 17 18 19 19 10 10 11 12 12 13 14 14 15 15 16 16 17 17 16<th> Description (1) Describe Note strings only. Describe Note only; e.g. "Send Buffer size setting." 14 15 16 17 18 19 (2) Up to 32 characters can be used. (3) When the CPU type of the GX Developer project is an A Series All descriptions become Separate note. A conversion error will occur if a " * " is inserted before a Note (4) When the CPU type of the GX Developer project is a QnA Series Insert an " * " in front of each string to make it a Separate note is not characters. (5) About Note errors If there is no corresponding Instruction in the previous line of thoccur. Also, if the Conversion type for wrong instruction is set to "To in export destination data ", they will not be converted to invalid in: (6) If there is a mixture of Line statement, P/I statements and Note error will occur. </th>	 Description (1) Describe Note strings only. Describe Note only; e.g. "Send Buffer size setting." 14 15 16 17 18 19 (2) Up to 32 characters can be used. (3) When the CPU type of the GX Developer project is an A Series All descriptions become Separate note. A conversion error will occur if a " * " is inserted before a Note (4) When the CPU type of the GX Developer project is a QnA Series Insert an " * " in front of each string to make it a Separate note is not characters. (5) About Note errors If there is no corresponding Instruction in the previous line of thoccur. Also, if the Conversion type for wrong instruction is set to "To in export destination data ", they will not be converted to invalid in: (6) If there is a mixture of Line statement, P/I statements and Note error will occur. 			

6.2.2 When device comments are import by the GX Developer

The following explains how to describe each column data format.



Column data format	Description
Device number	(1) Describe Device number. Conversion cannot be performed if a Device number is not listed. Always enter this field.
Label	 (1) Describe Labels. If the Device number area is left blank or invalid device is input, the line will not be registered. (2) Up to 8 characters can be entered.
Comment	 (1) Describe Comment. If the Device number area is left blank or invalid device is input, the line will not be registered. (2) Up to 32 characters can be entered.

CAUTION

Always enter a Device number.

Use one of the following combinations:

- 1) Device number, Label, Comment
- 2) Device number, Comment
- 3) Device number, Label

6.3 File Formats When The GX Developer Format Data is Export to a Text, CSV Format File

This section explains the file formats used when the GX Developer data is export to a TEXT, CSV format file.

6.3.1 When a List is export to a text, csv format file

POINT If the CPU type of the GX Developer project is A Series, FX Series or Motion (SCPU), a " * " is displayed for Statement (Line, P/I) and Note in the GX Developer. However,

when the data is export to a TEXT, CSV format file, the " * " is eliminated.

(1) TEXT format file (delimited by spaces)A List is export to a TEXT format file using the format shown below:



REMARK

For Line statement, P/I statements and Note, "; ", " [] " or " < > " is inserted before each string or before and after each string.

They are export in the Instruction column 2).



A List is export to a CSV format file using the format shown below:



6.3.2 When device comments are export to a text, csv format file



(1) TEXT format file (delimited by spaces)

Device comments are export to a TEXT format file using the format shown below:

(2) CSV format file (delimited by commas)

Device comments are export to a CSV format file using the format shown below:



A device will not be written if both of the corresponding label and comment are not set.

Therefore, the device X2 in (2) above will not be written, as the corresponding settings are not made.

APPENDICES

Appendix 1. Limitations and Precautions

(1)	The following explains the limitations and precautions when import
	TEXT, CSV format data to the GX Developer.

Item	Description
	Conversion cannot be performed during monitoring using GX Developer.
	Conversion cannot be performed while GX Simulator is running in GX Developer.
while GX Converter is	Conversion cannot be performed when the GX Converter is running without any open project.
running	GX Converter cannot be used when "Use label" is selected while creating a new project on GX
	Developer.
	When the GX Developer import TEXT, CSV format data, there may be some cases in which
CPUtypo	Instruction and I/O (Device) cannot be converted, depending on the CPU type of the project
Сго туре	opened in GX Developer.
	See "GX Developer Operating Manual" for details.
	There is a limitation in data names when the PLC type of the GX Developer project is A Series,
Data name	FX Series, or Motion (SCPU).
	See "GX Developer Operating Manual" for details.
	When converting a List, the data type of the Instruction must be present within the conversion
	data. Otherwise, conversion cannot be performed.
Column data format	When converting Device comments, the data type of the Device number must be present within
	the conversion data. Otherwise, conversion cannot be performed.
	In addition, describe Device number and either Comment or Label.
	To save the conversion processing time, describe the Device number in ascending order within
	the TEXT, CSV format data.
Device comments	Conversion is also possible when they are not in the ascending order. When Device numbers
	are entered randomly, it takes longer to read Device comments compared to when they are
	entered in ascending order.
	The input range for Start import at row and End import at row is 1 to 524288.
Conversion row setting	The default End import at row is blank. When the End import at row is blank, conversion is
	performed up to the last row.
Data Preview area	When CSV format is specified, the data for the 18th column and beyond will be displayed as " , "
Data Fieview alea	in the Data Preview area.

(2) The following explains the limitations and precautions when export GX Developer format data to TEXT, CSV format data.

Item	Description
	Conversion is possible even during monitoring using the GX Developer.
	Conversion is possible even while GX Simulator is running in GX Developer.
While GX Converter is	Conversion cannot be performed when GX Converter is running without any open project.
running	GX Converter cannot be used when "Use label" is selected while creating a new project on GX
	Developer.
Delimiter	The delimiter is a comma when export using TEXT format, and a space when export using CSV
Delimiter	format.

Appendix 2. Conversion Error Message List

The following explains conversion error messages when the GX Developer is import TEXT, CSV format data.

While converting a List

Message	Corrective action
The specified data cannot be created.	Verify the CPU type and parameter settings.
	<cause></cause>
	The program capacity was not set for the specified program
	name.
	An addition was attempted exceeding the maximum number of
	programs.
The program capacity has been exceeded.	Verify the data being converted.
	(The converted data is stored while the capacity allows.)
The instruction or device is incorrect. (nth Line)	Correct the data being converted and retry.
	(When an Instruction uses multiple lines, the line number within the
	parentheses indicates the first line.)
The device is incorrect. (nth Line)	Correct the data being converted and retry.
	(When an Instruction uses multiple lines, the line number within the
	parentheses indicates the first line.)
	<cause></cause>
	A Device that cannot be used is specified.
	• There is an error in the index qualification or digit specification.
	There is an error in the setting for a special function module
	device or link direct device.
The device number exceeds the usable range.	Correct the data being converted and retry.
(nth Line)	(When an Instruction uses multiple lines, the line number within the
	parentheses indicates the first line.)
A Statements should be 64 characters or less.	Verify the position in which the number of characters has been
(nth Line)	exceeded.
	(Characters up to the 64th character have been recorded.)
A Note should be 32 characters or less. (nth Line)	Verify the position in which the number of characters has been
	exceeded.
	(Characters up to the 32nd character have been recorded.)
A Comment should be less than 16 or 32 characters.	Verify the position in which the number of characters has been
(nth Line)	exceeded.
	(Characters up to the 32nd (16th) character have been recorded.
	The maximum number of allowable characters will differ depending
	on the option information in the GX Developer.)
Statement or note cannot be converted. (nth Line)	Correct the data being converted and retry.
Separate statement or note cannot be converted.	If the header character is an " * ", change it to " ** " and retry.
(nth Line)	
Convert error counter is over 100. Cancelled over 100	Correct the conversion errors and retry.
errors.	

While converting Device comments

Message	Corrective action
The device comment already exists. (nth Line)	Correct the duplicate comments and retry.
	(The last Device will be valid.)
The device is incorrect. (nth Line)	Correct the invalid Device and retry.
Comments should be less than 16 or 32 characters.	Verify the position in which the number of characters has been
(nth Line)	exceeded.
	(Characters up to the 32nd (16th) character have been recorded.
	The maximum number of allowable characters will differ depending
	on the option information in the GX Developer.)
Labels should be 8 characters or less. (nth Line)	Verify the position in which the number of characters has been
	exceeded.
	(Characters up to the 8th character have been recorded.)
Convert error counter is over 100.	Correct the conversion errors and retry.
Cancelled over 100 errors.	

Appendix 3. Converting CADIF Character-string Data

This section explains the operation to import the character-string data file that has been converted via SW1IVD-CADIF, to the GX Developer.

(1) When converting a List

Convert a List using TEXT format while taking care of the following settings:

- Separate between the number column and Instruction column in "Set delimiter location."
- In "Set column data," set the first column to "Do not Import (Skip)" and the second column to "Instruction."
- (2) When converting Device comments Convert Device comments using CSV format while taking care of the following settings:
 - Decrease the End import at row by 1 using the spin button in the "Set conversion source data."
 - Set "; " (semicolon) as the column delimiter in "Set delimiter location."
 - In "Set column data," set the first column to "Device number" and the second column to "Comment."

Appendix 4. Performance Specifications

The following explains the performance specifications for GX Converter.

Conversion element		Conversion time	
	List	5 seconds	
	Device comments		
COV femat data to CV Davidance femat data	List	5 seconds	
CSV format data to GX Developer format data	Device comments		
	List	5 seconds	
GX Developer format data to TEXT d format ata	Device comments		
	List		
GX Developer format data to CSV format data	Device comments	5 seconds	

The computer used for the measurements above

CPU: Pentium[®] 133 MHz, RAM: 32 MB, Free hard disk space: More than 50 MB,OS: Windows[®] 95 Conversion data List : 1001 steps (LD X0 OUT M0 x 500 times, END)

Device comments : 1000 Device equivalent

(Comment 32 characters, Label 8 characters)

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GX Converter Version 1

Operating Manual

MODEL SW0D5-CNVW(OPE)-E

MODEL CODE

13J949

IB(NA)-0800004-H(0802)MEE

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