

FieldMate Handheld Communicator Data Converter for FieldMate

User's MANUAL

Introduction

The FieldMate Handheld Communicator Data Converter for FieldMate ("Data Converter") is a data-interfacing software which allows device configuration files saved by the FieldMate Handheld Communicator to be used in FieldMate.

The functions of the Data Converter are as follows:

- Converts device configuration files created by the Handheld Communicator into DTM data that can be used in type-B HART Built-in DTM.
- Saves converted DTM data in the device maintenance information (DTM data) of FieldMate Advance.
- Saves converted DTM data to a DTM data file in a PC.

The supporting FieldMate revisions and languages are shown below.

FieldMate revision	R2.05.00 or later
FieldMate edition	Advance and Basic
Language	Japanese and English

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1. Data Converter Window

When started with the FieldMate Handheld Communicator connected to PC, the Data Converter displays a list of device configuration files.

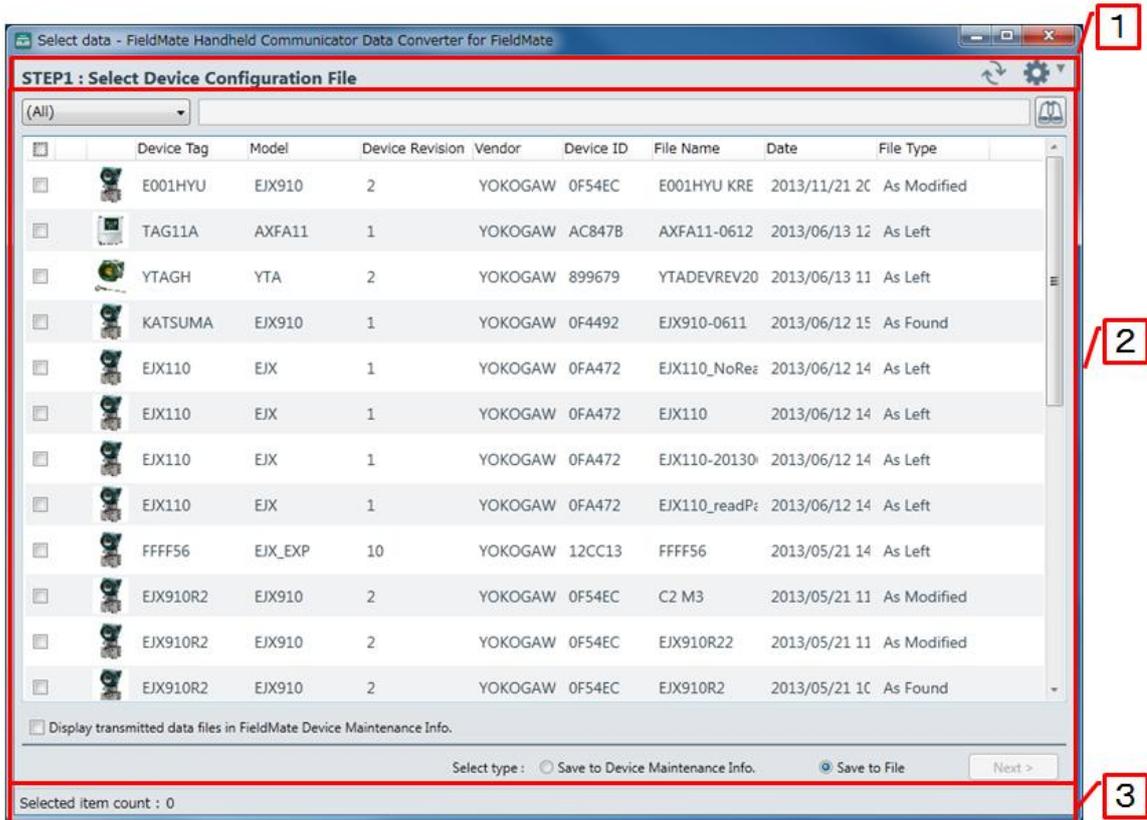


Figure 1-1 Data Converter window

Table 1-1 Data Converter window

No.	Name	Description
1	Menu bar	Displays two icons and performs operations on the content below. For the functions of the two icons, see Section 1.1.
2	Content	Displays the content on each page.
3	Status bar	Indicates the number of device configuration files selected.

1.1. List of Menus

The menu bar displays two icons.

The table below describes the icons and respective functions.

Table 1-2 List of menu icons

No.	Icon	Function
1		<ul style="list-style-type: none"> Communicates with the Handheld Communicator to update the list of device configuration files. This function is enabled in the window for selecting device configuration files, while it is not enabled in the window for confirming device configuration files. <p>Enabled: </p> <p>Not enabled: </p>
2		<p>The following functions are available:</p> <ul style="list-style-type: none"> Selects a language Displays the version of Data Converter Help: Displays this Manual <p>This function is enabled in both windows described above.</p>

1.1.1. Selecting the Language

Switches the language to be displayed between Japanese and English.

Click the  icon and choose Japanese or English from the language item.

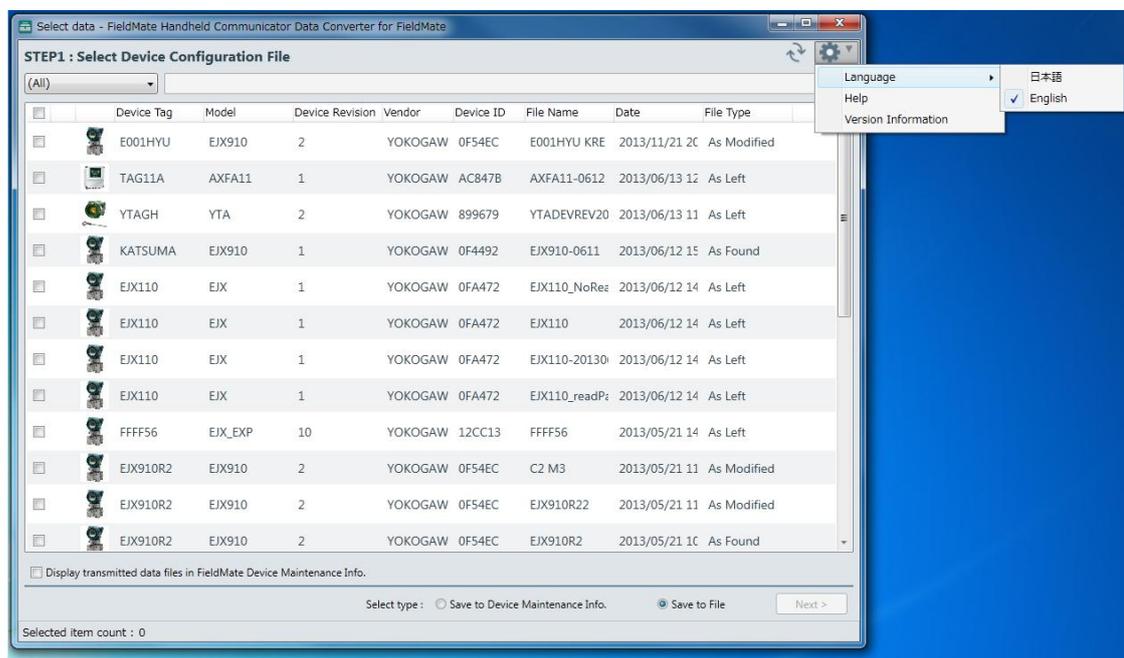


Figure 1-2 Selecting a language

1.2. Window for Selecting Device Configuration Files

This window displays a list of device configuration files.

When communication with the Handheld Communicator is established successfully, a list of device configuration files is displayed.

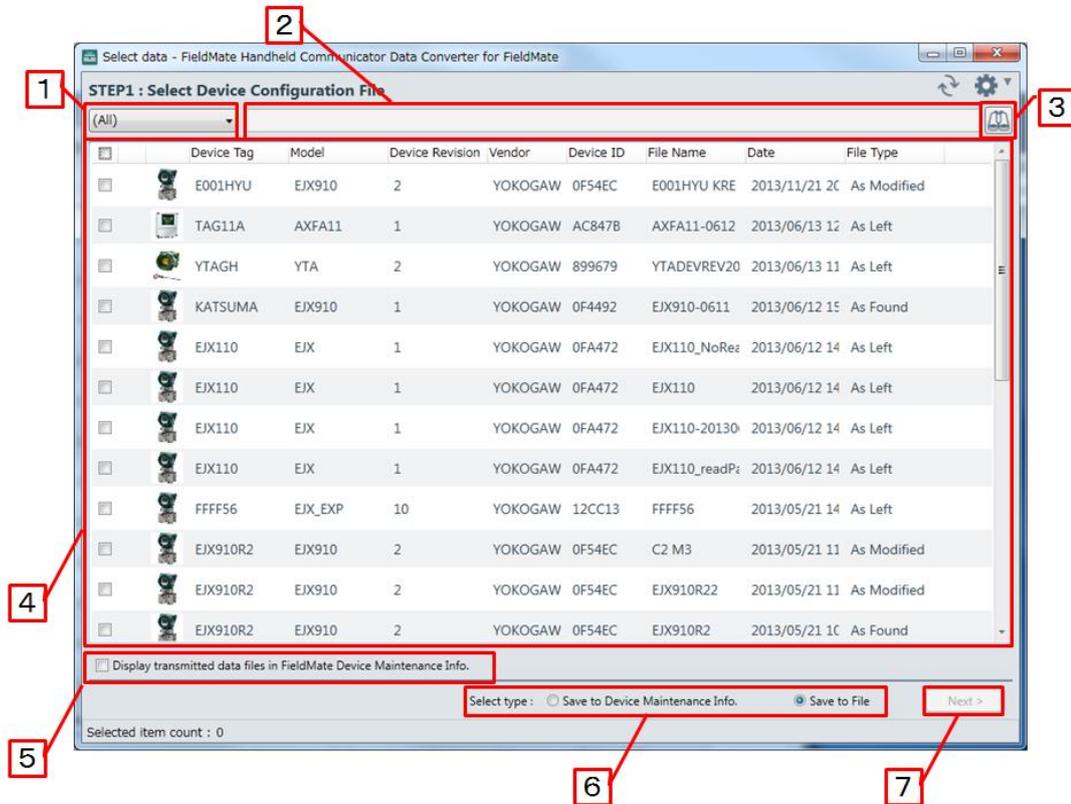


Figure 1-3 Window for selecting device configuration files

Table 1-3 Window for selecting device configuration files

No.	Name	Specifications
1	Search Category	Specify the category of target devices. <ul style="list-style-type: none"> • All • Device tag • Device type • Device revision • Device vendor • Device ID • File name • Date and time • File type
2	Search Word	<ul style="list-style-type: none"> • A field in which to enter a character string to be searched. • There are no limitations on characters or the number of letters. • Pressing the [Enter] key when the pointer is in the entry field starts the search.
3	Search Button	Starts the search.
4	Device Configuration File List	<ul style="list-style-type: none"> • Displays a list of device configuration files in the Handheld Communicator. • For details, see Section 1.2.1.
5	Filtering Function	Switches between display and non-display of files already saved in the device maintenance information in FieldMate.
6	Select a Saving Destination	• Selects the device maintenance information or file as the data saving destination.

		<ul style="list-style-type: none"> • Data can be saved in the device maintenance information only for FieldMate Advance. • Data can be saved in a file for both FieldMate Basic and Advance.
7	To Confirmation Window	Moves to the window for confirming device configuration files.

1.2.1. List of Device Configuration Files

<input type="checkbox"/>		Device Tag	Model	Device Revision	Vendor	Device ID	File Name	Date	File Type
<input type="checkbox"/>		E001HYU	EJX910	2	YOKOGAW	0F54EC	E001HYU KRE	2013/11/21 20	As Modified
<input type="checkbox"/>		TAG11A	AXFA11	1	YOKOGAW	AC847B	AXFA11-0612	2013/06/13 12	As Left
<input type="checkbox"/>		YTAGH	YTA	2	YOKOGAW	899679	YTADEVREV20	2013/06/13 11	As Left
<input type="checkbox"/>		KATSUMA	EJX910	1	YOKOGAW	0F4492	EJX910-0611	2013/06/12 15	As Found
<input type="checkbox"/>		EJX110	EJX	1	YOKOGAW	0FA472	EJX110_NoRes	2013/06/12 14	As Left
<input type="checkbox"/>		EJX110	EJX	1	YOKOGAW	0FA472	EJX110	2013/06/12 14	As Left
<input type="checkbox"/>		EJX110	EJX	1	YOKOGAW	0FA472	EJX110-20130	2013/06/12 14	As Left
<input type="checkbox"/>		EJX110	EJX	1	YOKOGAW	0FA472	EJX110_readP	2013/06/12 14	As Left
<input type="checkbox"/>		FFFF56	EJX_EXP	10	YOKOGAW	12CC13	FFFF56	2013/05/21 14	As Left
<input type="checkbox"/>		EJX910R2	EJX910	2	YOKOGAW	0F54EC	C2 M3	2013/05/21 11	As Modified
<input type="checkbox"/>		EJX910R2	EJX910	2	YOKOGAW	0F54EC	EJX910R22	2013/05/21 11	As Modified

Figure 1-4 List of device configuration files

Table 1-4 Items in the list of device configuration files

Order	Item	Description
1	<input type="checkbox"/>	<ul style="list-style-type: none"> • Check this box for the data to be converted. • This box cannot be checked for files already saved in the device maintenance information of FieldMate.
2		This mark appears for files already saved in the device maintenance information of FieldMate.
3	Device Icon	<ul style="list-style-type: none"> • Displays device icons. • For any device other than Yokogawa devices, the HART protocol icon is displayed.
4	Device Tag	<ul style="list-style-type: none"> • Displays device tags. • The display items depend on the setting in the FieldMate Setup Tool.
5	Device Type	Displays device types.
6	Device Rev.	Displays device revisions in decimal notation.
7	Device Vendor	Displays device vendor names.
8	Device ID	Displays device IDs in hexadecimal notation.
9	File Name	<ul style="list-style-type: none"> • Displays the device configuration file names. • Displays the file name which was used to save the device configuration file in the Handheld Communicator.
10	Date and Time	Displays the date and time when the file was saved in the Handheld Communicator.
11	File Type	Displays the file type which was used to save the file in the Handheld Communicator.

Upon checking a box in the list, the characters of the chosen item become bold as shown in Figure 1-5.

Checking the box in the header selects all data on the page. Unchecking the box deselects all data (see Figure 1-6).

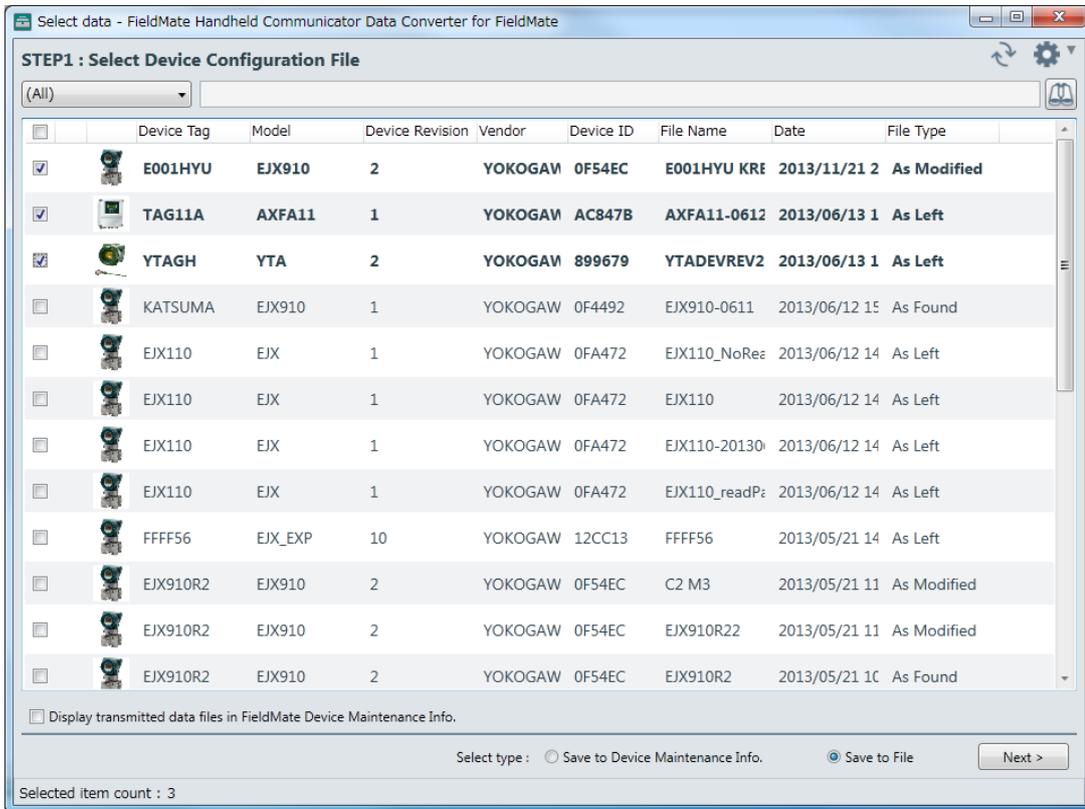


Figure 1-5 Selecting data

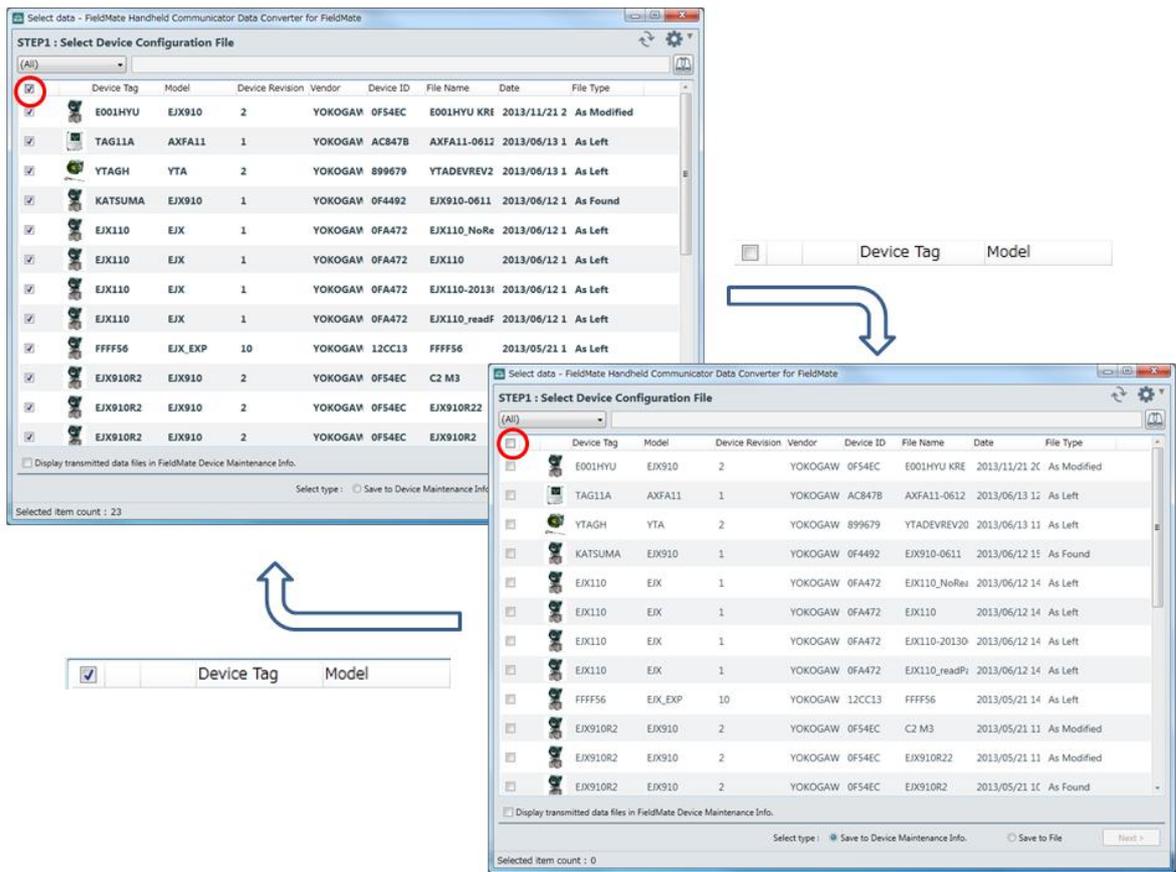


Figure 1-6 Selecting/deselecting all data on a page

2. Converting Device Configuration Files

2.1. Saving Data in Device Maintenance Information (possible only in FieldMate Advance)

On the window for selecting device configuration files, select Device Maintenance Information as the saving destination, choose the files to be saved, and then press the [Next] button. This moves to the confirmation window shown below.



**Figure 2-1 Window for confirming device configuration files
(to save files in device maintenance information)**

**Table 2-1 Window for confirming device configuration files
(to save files in device maintenance information)**

No.	Name	Specifications
1	Device Setting File List	Displays a list of selected device configuration files. For details, see Section 2.3.
2	Checkbox for Creating Automatic Device Maintenance Information	Specifies whether to create the target device maintenance information automatically if it does not exist in FieldMate.
3	Progress Bar	Displays the progress of the conversion process.
4	Back Button	Returns to the previous window.
5	Send Button	Starts the conversion process and saves the data in the device maintenance information.

Confirm the device configuration files to be saved and click the [Send] button to start the conversion. Once started, the device configuration files are automatically converted into DTM data and saved in the device maintenance information except for some specific conditions.

In the case of specific conditions, a confirmation dialog appears.

For specific conditions and respective confirmation dialogs, see Section 2.4.

2.2 Saving Data to File (possible in both FieldMate Basic and Advance)

On the window for selecting device configuration files, select File as the saving destination, choose the files to be saved, and click the [Next] button. This moves to the confirmation window shown below.

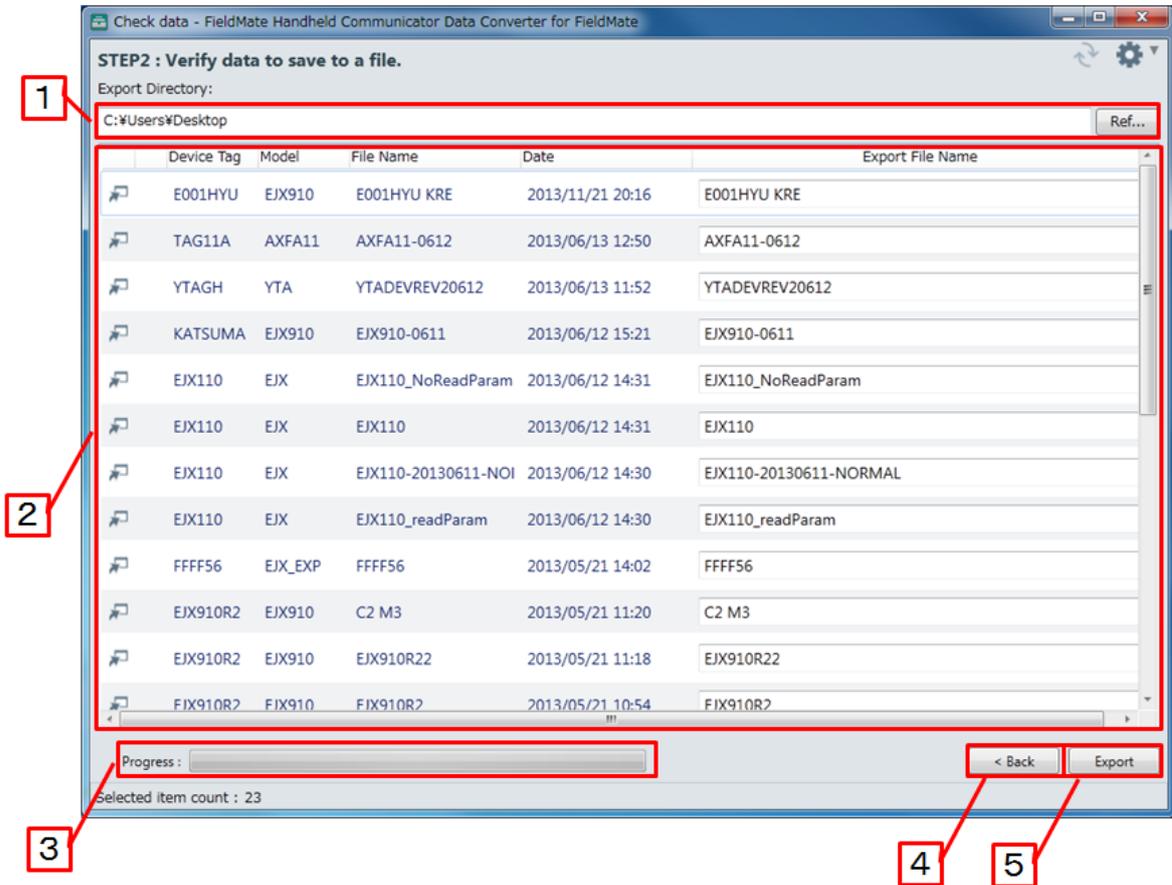


Figure 2-2 Window for confirming device configuration files (saving data to a file)

Table 2-2 Window for confirming device configuration files (saving data to a file)

No.	Name	Specifications
1	Saving Destination	Specifies a folder in which to save DTM data (.dns). Clicking <input type="button" value="Ref..."/> displays the dialog for selecting folders.
2	List of Device Configuration Files	Displays a list of selected device configuration files. For details, see Section 2.3.
3	Progress Bar	Displays the progress of the conversion process.
4	Back Button	Returns to the previous display.
5	Export Button	Starts the conversion process and saves data in the target folder.

Confirm the device configuration files to be saved and click the [Export] button to start the conversion process.

The conversion is automatically executed. The converted DTM data is saved in the target folder.

2.3. List of Device Configuration Files

A list of the device configuration files to be converted is shown below.

	Device Tag	Model	File Name	Date	Export File Name
	E001HYU	EJX910	E001HYU KRE	2013/11/21 20:16	E001HYU KRE
	TAG11A	AXFA11	AXFA11-0612	2013/06/13 12:50	AXFA11-0612
	YTAGH	YTA	YTADEVREV20612	2013/06/13 11:52	YTADEVREV20612
	KATSUMA	EJX910	EJX910-0611	2013/06/12 15:21	EJX910-0611
	EJX110	EJX	EJX110_NoReadParam	2013/06/12 14:31	EJX110_NoReadParam
	EJX110	EJX	EJX110	2013/06/12 14:31	EJX110
	EJX110	EJX	EJX110-20130611-NOI	2013/06/12 14:30	EJX110-20130611-NORMAL
	EJX110	EJX	EJX110_readParam	2013/06/12 14:30	EJX110_readParam
	FFFF56	EJX_EXP	FFFF56	2013/05/21 14:02	FFFF56
	EJX910R2	EJX910	C2 M3	2013/05/21 11:20	C2 M3
	EJX910R2	EJX910	EJX910R22	2013/05/21 11:18	EJX910R22
	FIX910R2	FIX910	FIX910R2	2013/05/21 10:54	FIX910R2

Figure 2-3 List of device configuration files

Table 2-3 Items of device configuration file list

Order	Item	Description
1		Displays the details of the device configuration file. See Section 2.4.4.
2	Device Tag	Displays device tags in the format set by the FieldMate Setup Tool.
3	Device Type	Displays device type names.
4	File Name	Displays the device configuration file name under which the device configuration file was saved in the Handheld Communicator.
5	Date and Time	Displays the date and time when the file was saved in the Handheld Communicator.
6	Reason	Displays the content of the reason item that has been entered when saving DTM data in the device maintenance information. The default is “[File name] data from FieldMate Handheld Communicator on [Conversion date & time]”. If data was saved in a file, this field shows the file name.
7	Conversion Status	Displays the status of conversion, which is one of the following: : Finished : Skipped

2.4. List of Dialogs

2.4.1. Confirmation Dialog for Creating New Device Maintenance Information

This dialog is displayed when the following three conditions are all met before saving DTM data in the device maintenance information.

- There is no device maintenance information which corresponds to the device ID of the device configuration file data to be saved.
- “Create device maintenance information automatically” is not checked.
- There is device maintenance information of the same device type and device revision, but no device maintenance information which corresponds to the device ID of the device configuration file data to be saved.

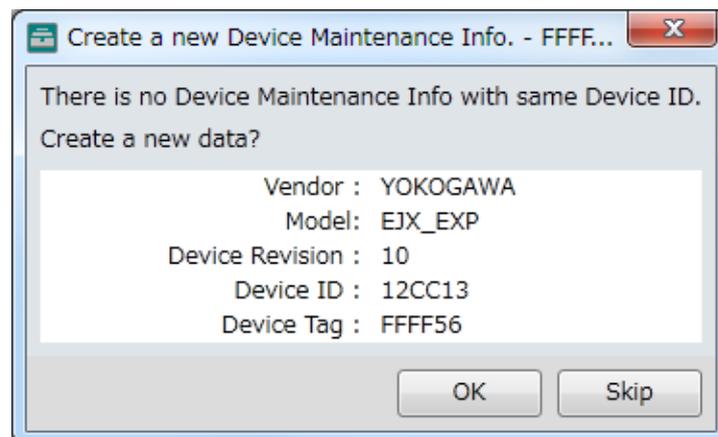


Figure 2-4 Confirmation dialog for creating new device maintenance information

When the [OK] button is clicked, new device maintenance information is created based on the device ID of the device configuration file, and DTM data is saved.

When the [Skip] button is clicked, the process is skipped.

2.4.2. Dialog for Selecting Target Device Maintenance Information

This dialog is displayed when the following conditions are all met before saving DTM data in the device maintenance information.

- There is no device maintenance information which corresponds to the device ID of the device configuration file data to be saved.
- “Create device maintenance information automatically” is not checked.
- There is device maintenance information of the same device type and device revision, but the device ID is blank.

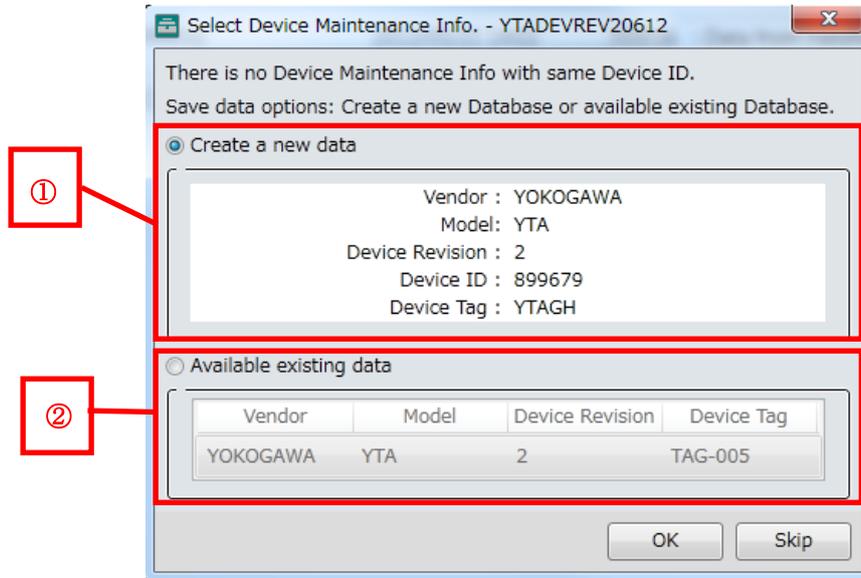


Figure 2-5 Confirmation dialog for selection

1. If “Create new device maintenance information” is selected
When [OK] is clicked, new device maintenance information is created based on the device ID of the device configuration file, and DTM data is saved.
2. If “Use the existing device maintenance information” is selected
Device maintenance information with a blank device ID is displayed in the list.
When device maintenance information is selected in the list and [OK] is clicked, the device ID of the device configuration file is used as the device ID of the selected device maintenance information, and DTM data is saved.

When the [Skip] button is clicked, transfer of the device configuration file is skipped.

2.4.3. Confirmation Dialog for Overwriting Data

This dialog is displayed when the following conditions are met before saving DTM data in the device maintenance information.

- There are five pieces of DTM data of the device maintenance information to be saved.

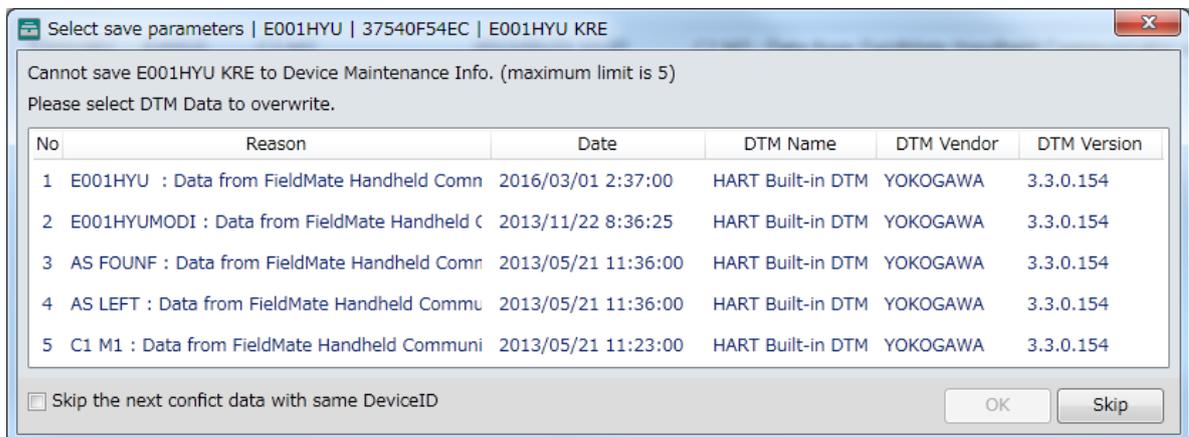


Figure 2-6 Confirmation dialog for overwriting DTM data

When data to be overwritten is selected and [OK] is clicked, the DTM data is overwritten and saved.
When the [Skip] button is clicked, the process is skipped.

If “Skip the process if the same device ID is found during the subsequent processes” is checked, data of the same device ID is automatically skipped in the subsequent processes.

2.4.4. Dialog for Displaying Details

Clicking  on the window for confirming device configuration files (DCF) displays the details of the target date for conversion.

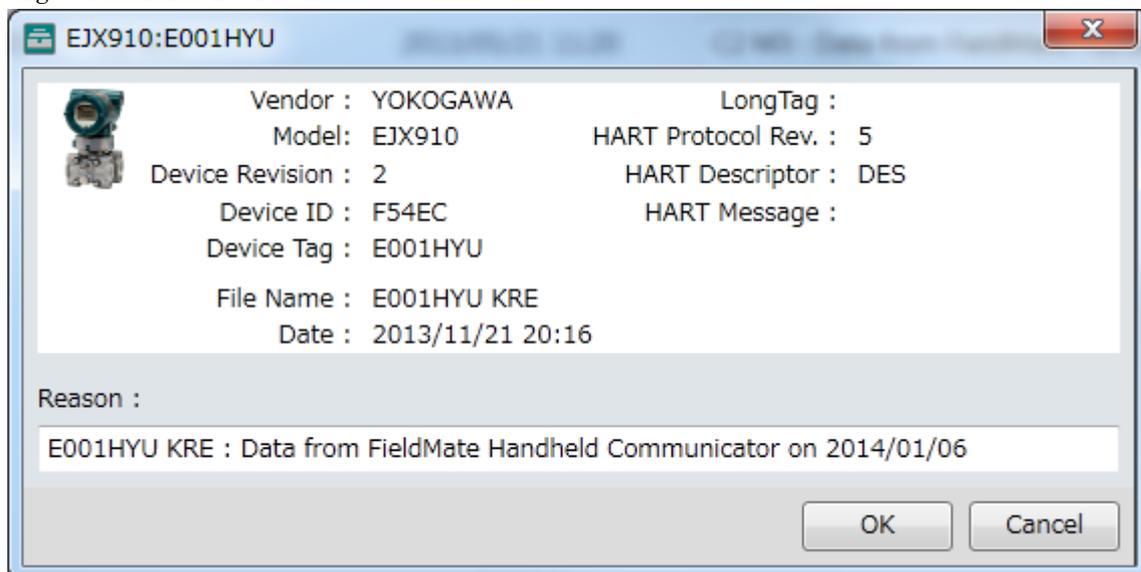


Figure 2-7 Dialog for displaying details

The display items are as follows:

Table 2-4

Device Vendor Name	Displays a device vendor name.
Device Type	Displays a device type name.
Device Revision	Displays a device revision in decimal notation.
Device ID	Displays a device ID in hexadecimal notation.
Device Tag	Displays a device tag.
Long Tag	Displays a device long tag.
HART Protocol Rev.	Displays a HART protocol revision.
HART Descriptor	Displays a HART descriptor value.
HART Message	Displays a HART message value.
File Name	Displays the name of a DCF.
Date and Time	Displays the date and time when DCF was created.
Reason or Target File Name	If Device Maintenance Information is selected as the saving destination, this item shows the reason. If File is selected, this indicates the target file name.

2.4.5. Dialog for Required DD File List

After the conversion process, the following dialog may be displayed.

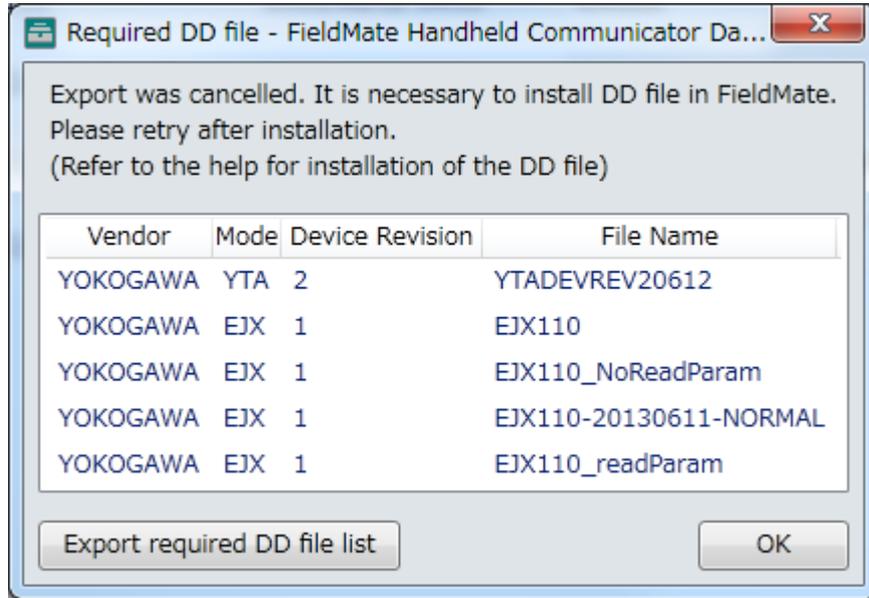


Figure 2-8 Dialog for required DD file list

To display converted DTM data in the HART Built-in DTM, the DD file of the target device configuration file is required.

Therefore, the conversion process is skipped for the device type or device revision for which the corresponding DD file has not been installed in FieldMate and the dialog is displayed with a list of required DD files.

If this dialog is displayed, exit the Data Converter and install the required DD files in the FieldMate (for details, see Chapter 3).

Then, start the Data Converter again, convert the target device configuration files into DTM data, and save it.

3. How to Install DD Files into FieldMate

This chapter explains how to install DD files into FieldMate.

3.1. Using “Device Files Setup for this device ...”

Use FieldMate’s Segment Viewer or Device Navigator to choose a target device and install HART DD files in the FieldMate.

- Startup
Select the device using the Segment Viewer or Device Navigator and choose “Device Files Setup for this device ...” from the Action menu.

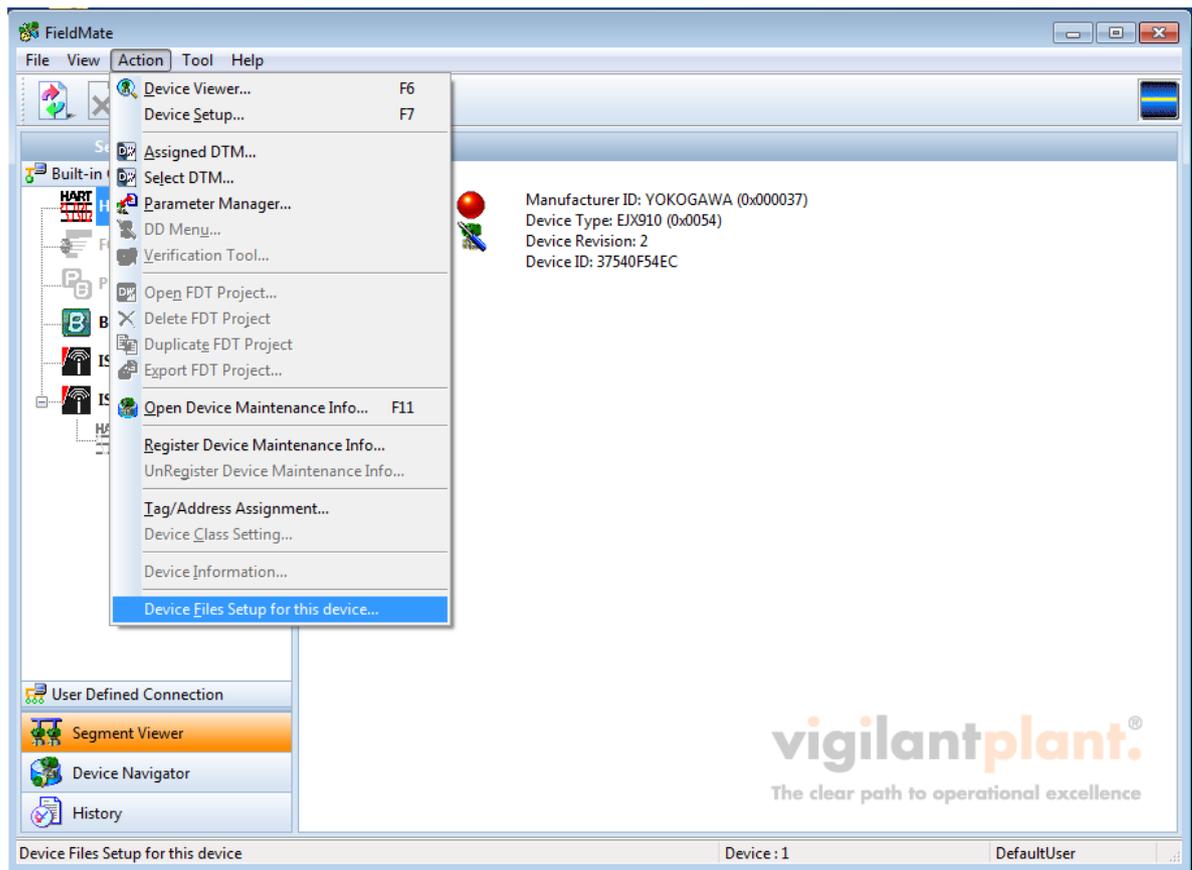


Figure 3-1 Segment Viewer

Then, the following dialog appears.

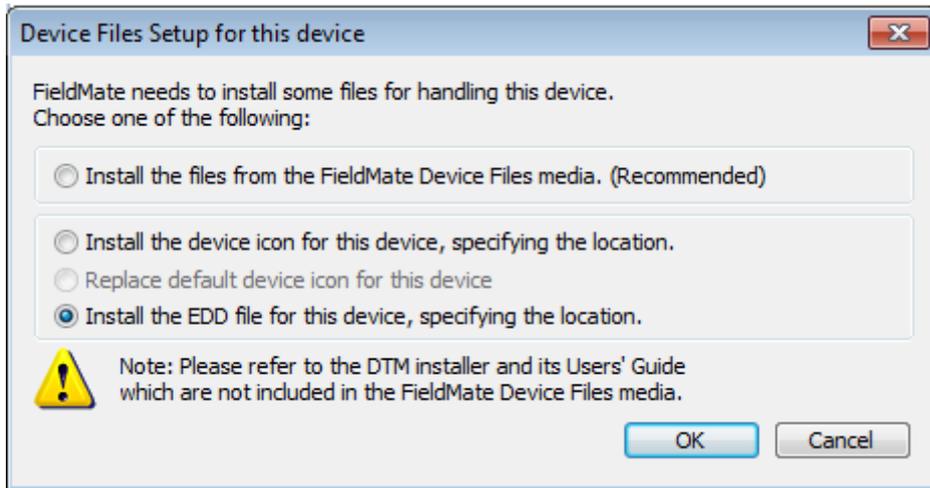


Figure 3-1 Set device files for this device ...

Select “Install the EDD file for this device, specifying the location” and click the [OK] button. This causes the Select Folder dialog to appear; choose the folder containing the target DD file and then click [OK].

(Obtain DD files to be installed from the website of the relevant associations or other sources.)

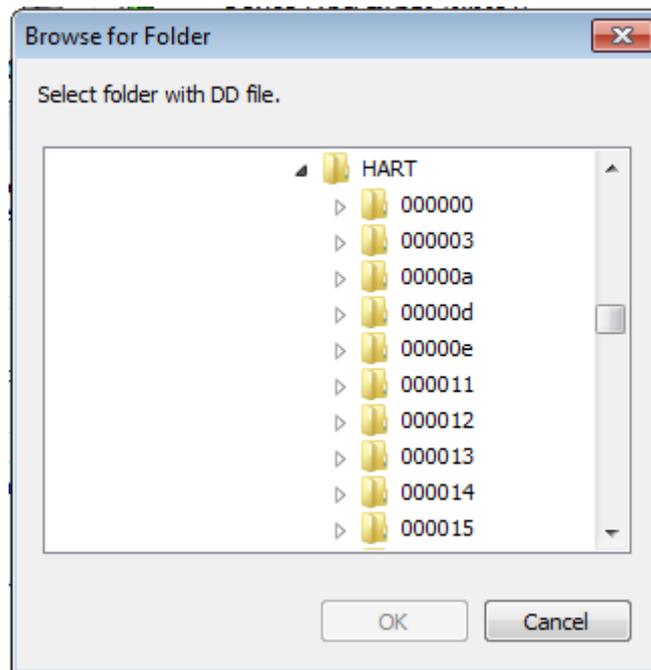


Figure 2-3 Selecting a DD file

If an appropriate file is found in the folder, the following dialog is displayed.

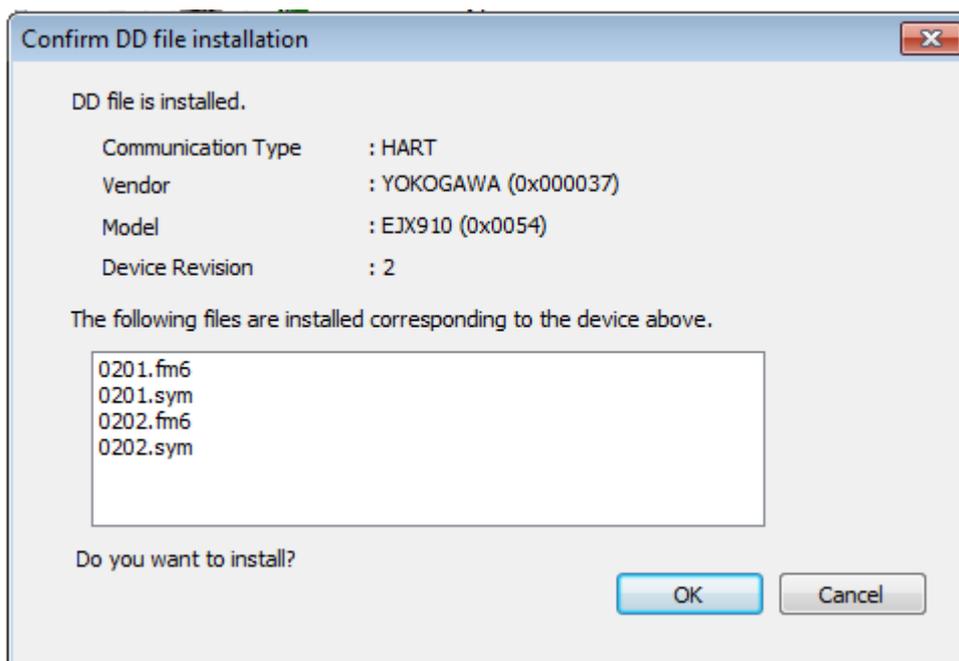


Figure 3-4 Confirmation dialog

Click [OK] on the Confirmation dialog to start installing DD files.

Appendix

Appendix A: Target Device Configuration Files

The Data Converter deals with device configuration files that meet the following condition.

- Device configuration created with the language setting of English or Japanese in the Handheld Communicator

*Other device configuration files are not displayed on the Select File window.