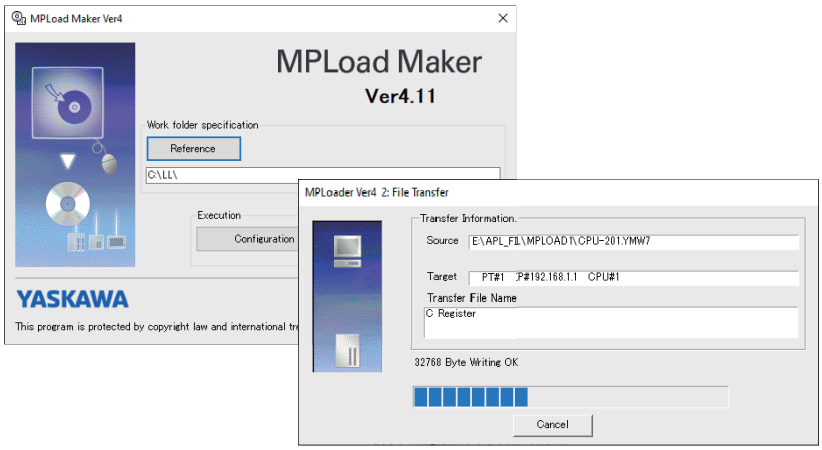
YASKAWA

Auto Transfer File Creation Tool

MPLoad Maker Version 4
USER'S MANUAL



MANUAL NO. SIEP C880761 02C

About this Manual

This manual describes the MP2000/MP3000/YRM1000/MPX1000-series MPLoad Maker Version 4 Auto Transfer File Creation Tool.

Read this manual carefully to ensure the proper use of the MPLoad Maker Version 4.

Keep this manual in a safe place so that it can be referred to whenever necessary.

Using This Manual

◆ Basic Terms

Unless otherwise specified, the following definitions are used:

- MPLoad Maker Version 4: Auto Transfer File Creation Tool for MP2000/MP3000/YRM1000/MPX1000-series Controllers
- MP2000/MP3000/YRM1000/MPX1000: A Controller in the MP2000/MP3000/YRM1000/MPX1000 Series
- PLC: A Programmable Logic Controller
- MPE720: Engineering tool for programming software
- YMW/YMW7 file: A project file that was created with MPE720 Version 6 or MPE720 Version 7
- PCI: Peripheral Components Interconnect
- Auto_MPL: An automatic startup file
- Auto_MPLCD: A CD that contains automatic startup files
- Communications Function Modules: The Function Modules in the 218IF-01, 218IF-02, 218IFA, 218IFB, 218IFC, 217IF-01, 260IF-01, 261IF-01, and 215AIF-01 Communications Modules and the 218IFD Function Module

◆ Trademarks

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- Other product names and company names are the trademarks or registered trademarks of the respective company. “TM” and the ® mark do not appear with product or company names in this manual.
- This product includes file archive software UNLHA(32).dll. The copyright of UNLHA(32).dll is owned by Micco.

◆ Visual Aids

The following aids are used to indicate certain types of information for easier reference.

Indicates precautions or restrictions that must be observed.

Indicates alarm displays and other precautions that will not result in machine damage.

Indicates definitions of difficult terms or terms that have not been previously explained in this manual.

Example — Indicates operating or setting examples.

Information — Indicates supplemental information to deepen understanding or useful information.

Related Manuals

The following table lists the manuals that are related to the MP2000/MP3000/YRM1000/ MPX1000-series Controllers. Refer to these manuals as required.

Function	Manual Name	Manual Number	Contents
Basic functionality	Machine Controller MP2000 Series Machine Controller System Setup Manual	SIEP C880732 14	Describes the functions of the MP2000-series Machine Controllers and the procedures that are required to use the Machine Controller, from installation and connections to settings, programming, trial operation, and debugging.
	Machine Controller MP3000 Series Machine Controller System Setup Manual	SIEP C880725 00	Describes the functions of the MP3000-series Machine Controllers and the procedures that are required to use the Machine Controller, from installation and connections to settings, programming, trial operation, and debugging.
	Machine Controller MP210□/ MP210□M User's Manual, Design and Maintenance	SIEP C880700 01	Describes the functions, specifications, setup procedures, and operating methods of the MP210□/MP210□M.
	Machine Controller MP2101T/ MP2101TM User's Manual, Design and Maintenance	SIEP C880712 00	Describes the functions, specifications, and application methods of the MP2101 Machine Controller.
	Machine Controller MP2200 User's Manual	SIEP C880700 14	Describes the functions, specifications, and application methods of the MP2200 Machine Controller.
	Machine Controller MP2300 Basic Module User's Manual	SIEP C880700 03	Describes the functions, specifications, setup procedures, and operating methods of the MP2300.
	Machine Controller MP2300S Basic Module User's Manual	SIEP C880732 00	Describes the functions, specifications, setup procedures, and operating methods of the MP2300S.
	Machine Controller MP2310 Basic Module User's Manual	SIEP C880732 01	Describes the functions, specifications, setup procedures, and operating methods of the MP2310.
	Machine Controller MP2400 User's Manual	SIEP C880742 00	Describes the functions, specifications, setup procedures, and operating methods of the MP2400.
	Machine Controller MP2000 Series MPU-01 Multi-CPU Module User's Manual	SIEP C880781 05	Describes the functions, specifications, and application methods of the MPU-01 Multi-CPU Module.
	Machine Controller MP3000 Series MP3100 Product Manual	SIEP C880725 24	Describes the introduction, appearance, functions, specifications, and information required for setup of the MP3100.
	Machine Controller MP3000 Series MP3200 User's Manual	SIEP C880725 10	Describes the specifications and system configuration of the MP3200 Machine Controller and the functions of the CPU Unit.
	Machine Controller MP3000 Series MP3300 Product Manual	SIEP C880725 21	Describes the specifications and system configuration of the MP3300 Machine Controller and the functions of the CPU Module.
	YRM-1000 Series YRM1010 Product Manual	SIEP C890101 26	Provides the basic operations and functions of the YRM1010 controller, as well as specifications, external dimensions, wiring, installation and operation methods.
	YRM-1000 Series YRM131□ Product Manual	SIEP C880726 00	Provides the basic operations and functions of the MPX131□ controller, as well as specifications, external dimensions, wiring, installation and operation methods.

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Function	Manual Name	Manual Number	Contents
Basic functionality	Σ-7-Series AC Servo Drive Σ-7C SERVOPACK Product Manual	SIEP S800002 04	Provides detailed information on selecting Σ-7-Series Σ-7C SERVOPACKs; installing, connecting, setting, testing in trial operation, and tuning Servo Drives; writing, monitoring, and maintaining programs; and other information.
	Σ-X-Series Σ-XS SERVOPACK with FT Specification Customized Sensing Data Function Option Product Manual	SIEP C710812 18	Provides information on the customized sensing data function in the Σ-X-series Σ-XS SERVOPACK.
	Σ-X-Series Σ-XS SERVOPACK with FT Specification Customized Sensing Data Function Option (with Custom Motion Function) Product Manual	SIEP C710812 21	Provides information on the customized sensing data function (with custom motion function) in the Σ-X-series Σ-XS SERVOPACK.
Engineering Tool	Engineering Tool for MP2000 Series Machine Controller MPE720 Version 6 User's Manual	SIEP C880700 30	Describes how to install and operate the MPE720 version 6 Engineering Tool for MP2000-series Machine Controllers.
	System Integrated Engineering Tool MPE720 Ver.7 User's Manual	SIEP C880761 03	Describes how to install and operate the MPE720 version 7 Engineering Tool for MP2000/MP3000-series Machine Controllers.

Precautions

- The MPLoad Maker Version 4 is not to be copied or used for any purpose other than transferring applications to MP2000/MP3000/YRM1000/MPX1000-series Controllers.
- Store the CD-ROM that contains the MPLoad Maker Version 4 in a safe place.
- The MPLoad Maker Version 4 is not to be decompiled, disassembled, or reverse engineered.
- The MPLoad Maker Version 4 is not to be given to, rent to, exchanged with, or otherwise released to a third party without the prior permission of Yaskawa Electric Corporation.

Warranty

◆ Details of Warranty

■ Warranty Period

The warranty period for a product that was purchased (hereinafter called “delivered product”) is one year from the time of delivery to the location specified by the customer or 18 months from the time of shipment from the Yaskawa factory, whichever is sooner.

■ Warranty Scope

Yaskawa shall replace or repair a defective product free of charge if a defect attributable to Yaskawa occurs during the warranty period that is given above.
This warranty does not cover defects caused by the delivered product reaching the end of its service life and replacement of parts that require replacement or that have a limited service life.

This warranty does not cover failures that result from any of the following causes.

- Improper handling, abuse, or use in unsuitable conditions or in environments not described in product catalogs or manuals, or in any separately agreed-upon specifications
- Causes not attributable to the delivered product itself
- Modifications or repairs not performed by Yaskawa
- Abuse of the delivered product in a manner in which it was not originally intended
- Causes that were not foreseeable with the scientific and technological understanding at the time of shipment from Yaskawa
- Events for which Yaskawa is not responsible, such as natural or human-made disasters

◆ Limitations of Liability

- Yaskawa shall in no event be responsible for any damage or loss of opportunity to the customer that arises due to failure of the delivered product.
- Yaskawa shall not be responsible for any programs (including parameter settings) or the results of program execution of the programs provided by the user or by a third party for use with programmable Yaskawa products.
- The information described in product catalogs or manuals is provided for the purpose of the customer purchasing the appropriate product for the intended application. The use thereof does not guarantee that there are no infringements of intellectual property rights or other proprietary rights of Yaskawa or third parties, nor does it construe a license.
- Yaskawa shall not be responsible for any damage arising from infringements of intellectual property rights or other proprietary rights of third parties as a result of using the information described in catalogs or manuals.

◆ Suitability for Use

- It is the customer's responsibility to confirm conformity with any standards, codes, or regulations that apply if the Yaskawa product is used in combination with any other products.
- The customer must confirm that the Yaskawa product is suitable for the systems, machines, and equipment used by the customer.
- Consult with Yaskawa to determine whether use in the following applications is acceptable. If use in the application is acceptable, use the product with extra allowance in ratings and specifications, and provide safety measures to minimize hazards in the event of failure.
- Outdoor use, use involving potential chemical contamination or electrical interference, or use in conditions or environments not described in product catalogs or manuals
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, vehicle systems, medical equipment, amusement machines, and installations subject to separate industry or government regulations
- Systems, machines, and equipment that may present a risk to life or property
- Systems that require a high degree of reliability, such as systems that supply gas, water, or electricity, or systems that operate continuously 24 hours a day
- Other systems that require a similar high degree of safety
- Never use the product for an application involving serious risk to life or property without first ensuring that the system is designed to secure the required level of safety with risk warnings and redundancy, and that the Yaskawa product is properly rated and installed.
- The circuit examples and other application examples described in product catalogs and manuals are for reference. Check the functionality and safety of the actual devices and equipment to be used before using the product.
- Read and understand all use prohibitions and precautions, and operate the Yaskawa product correctly to prevent accidental harm to third parties.

◆ Specifications Change

The names, specifications, appearance, and accessories of products in product catalogs and manuals may be changed at any time based on improvements and other reasons. The next editions of the revised catalogs or manuals will be published with updated code numbers. Consult with your Yaskawa representative to confirm the actual specifications before purchasing a product.

Contents

Introduction

1

This chapter introduces the MPLoad Maker Version 4.

1.1 Introduction

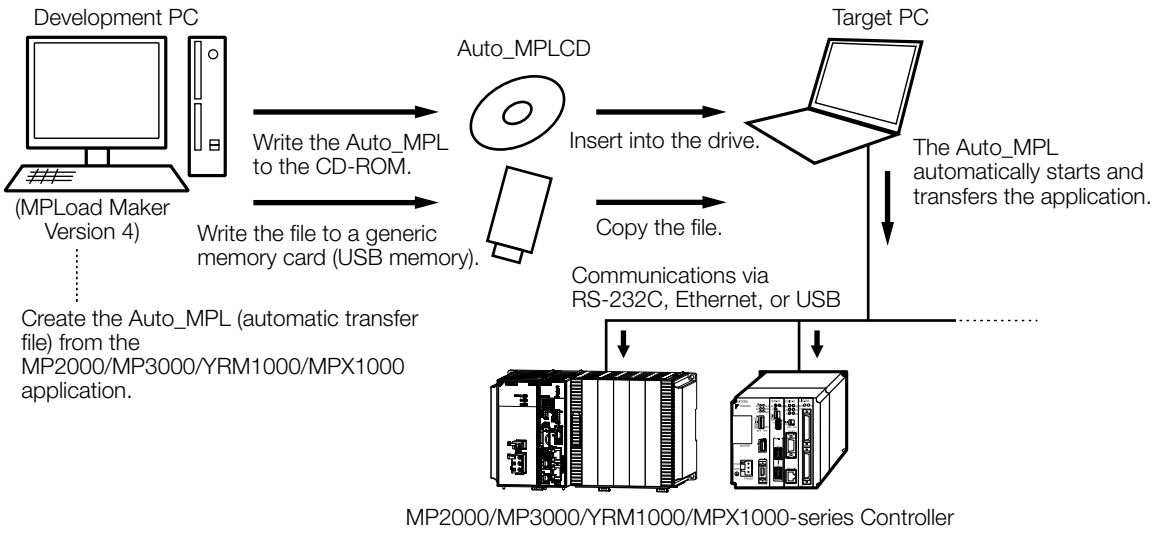
The MPLoad Maker Version 4 is a tool that is used to transfer YMW/YMW7 files to MP2000/MP3000/YRM1000/MPX1000-series Controllers.

A YMW/YMW7 file that was created on a development PC is transferred via an application-transfer PC that is connected to a Controller. In this manual, the application-transfer PC is called the target PC.

You can use either of the following two methods to transfer the YMW/YMW7 file to the MP2000/MP3000.

- Transfer from a CD-ROM
  Use the MPLoad Maker Version 4 on the development PC to create the automatic startup file (called the Auto_MPL).
  Write the Auto_MPL to a CD-ROM to create the Auto_MPLCD. Insert the CD-ROM into the target PC and transfer the YMW/YMW7 file.
- Transfer by Starting a .BAT Files from the HDD
  Use the MPLoad Maker Version 4 on the development PC to create the .BAT file.
  Use a generic memory card to transfer the .BAT file to the target PC.
  Start the .BAT file at the target PC and transfer the YMW/YMW7 file.

The following figure outlines the transfer process.



Important

MPLoad Maker Version 4 cannot be used to write files to a CD-ROM. Use a specific device and driver to write the CD-ROM.

Information

1. Applications can be transferred even if there is no application transfer software (MPE720 or MPLoader) installed on the target PC.
2. One Auto_MPLCD can be used to transfer the application to more than one Machine Controller.
3. The functionality of the Auto_MPL is limited to extracting and transferring applications. This eliminates the risk of the application being accidentally edited on the target PC.

1.2 Specifications

The following table lists the product specifications of the MPLoad Maker Version 4.

Item	Development PC (MPLoad Maker Version 4)	Target PC
Model	CPMC-MPL710	
Applicable Machine Controllers	MP2100, MP2100M, MP2101, MP2101M, MP2101T, MP2101TM, MP2200 (CPU-01/02/03/04), MP2300, MP2310, MP2300S, MP2400, MPU-01, MP3100, MP3200, MP3300, Σ-7C, Σ-XS SERVOPACK with FT55 specification, Σ-XS SERVOPACK with FT56 specification, YRM1010 and MPX1312	
CPU	Pentium II, 400 MHz min.	
RAM	128 MB min.	–
Display resolution	800 × 600 min.	–
Applicable OS	Windows 8, 8.1, 10 and 11 (32-bit or 64-bit edition, English or Japanese)	
Connection methods	–	Ethernet*1 Serial (RS-232C)*1 USB PCI Bus PCI Express
Transferable files	YMW/YMW7 file (project file that was created with MPE720 Version 6 or Version 7)	
Consecutive application transfers	–	Supported.
Installation size	30 MB	Installation is not required.
Available HDD space for execution	More than 25 MB*2 (for each Auto_MPL)	More than 1 MB*2 (Released when the transfer is completed.)

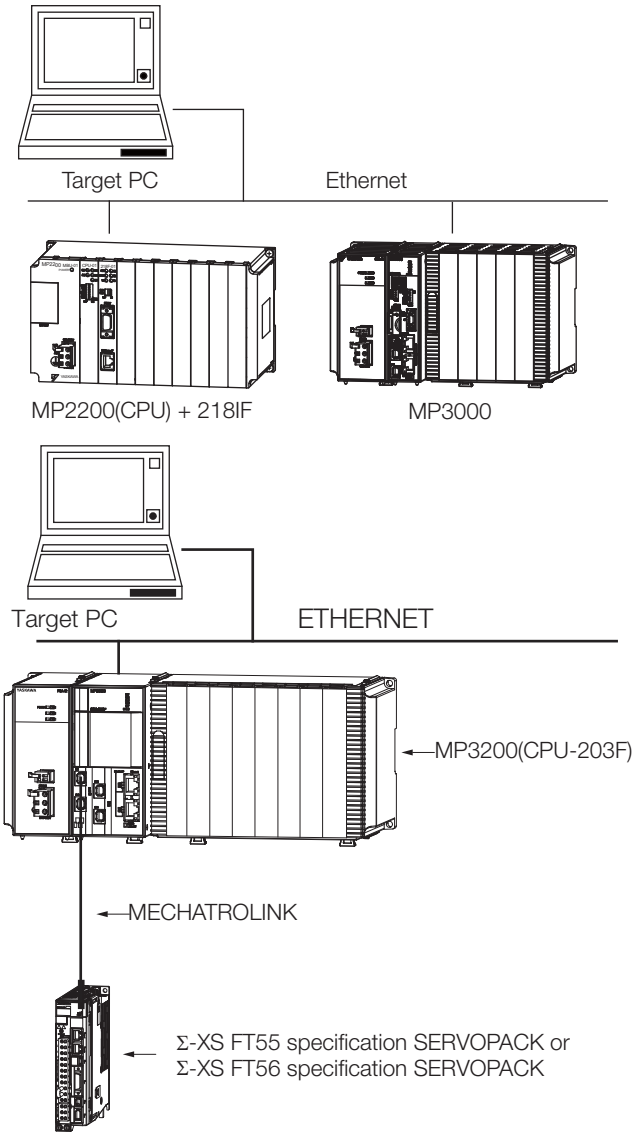
*1. Relay settings are not supported.

*2. More space is required depending on the size of the transferred application.

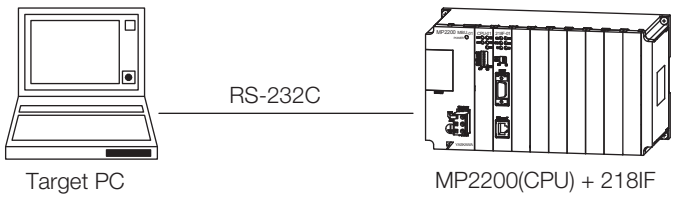
1.3 Connection Methods

The following illustrations show the connection methods between the target PC and the MP2000/MP3000/YRM1000/MPX1000-series Controllers.

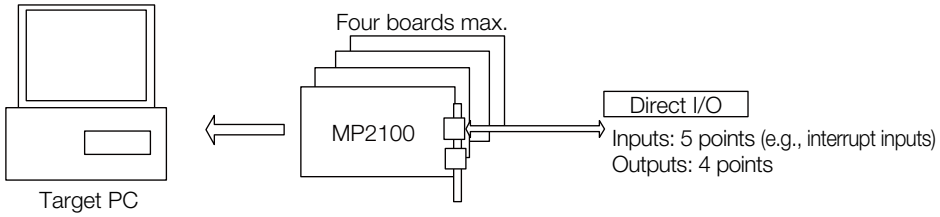
◆ Ethernet Connection



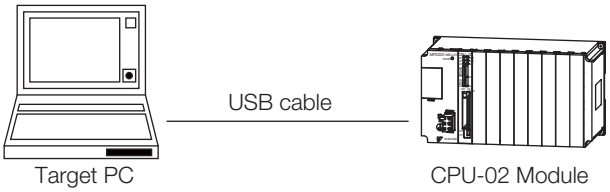
◆ One-to-one Serial Connection



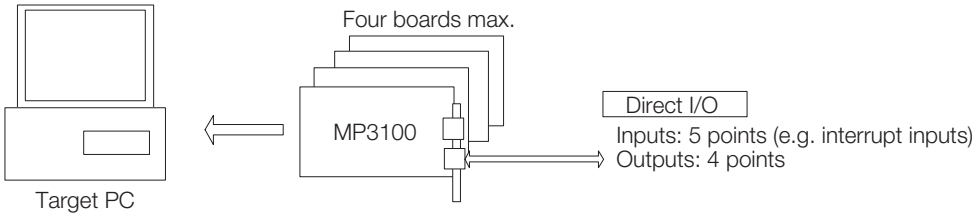
◆ PCI Bus Connection to MP2100



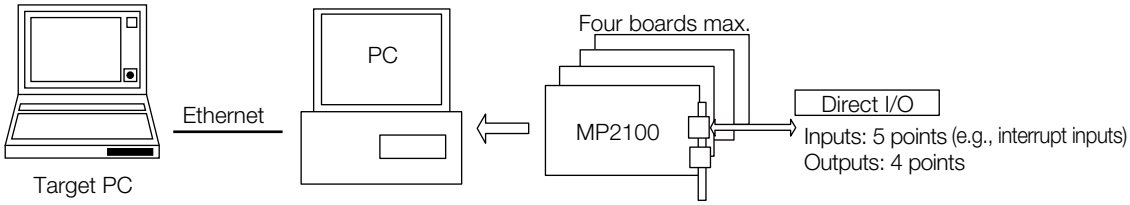
◆ USB Connection to MP2200-02



◆ PCI Express-bus Connection to MP3100



◆ Remote Connection



Installation

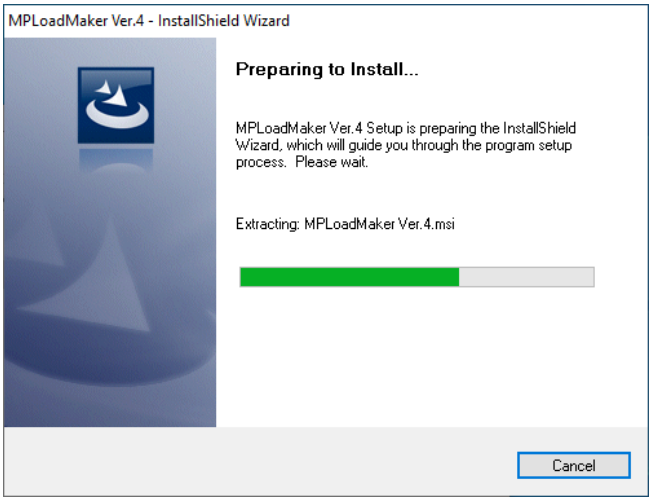
2

This chapter tells how to install the MPLoad Maker Version 4.

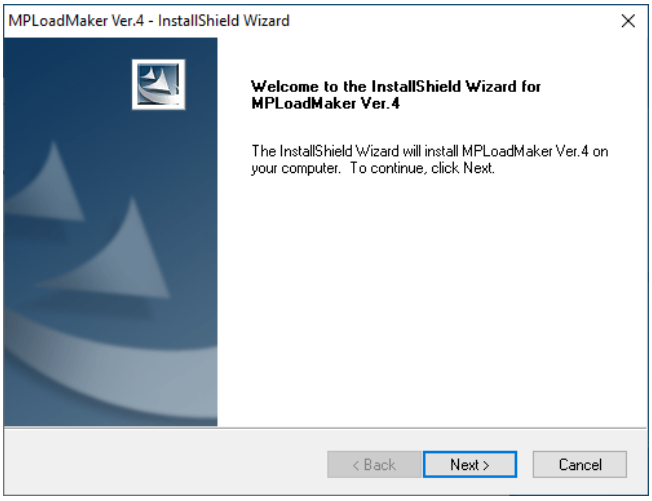
2.1 Installation Procedure

Use the following procedure to install the MPLoad Maker Version 4.

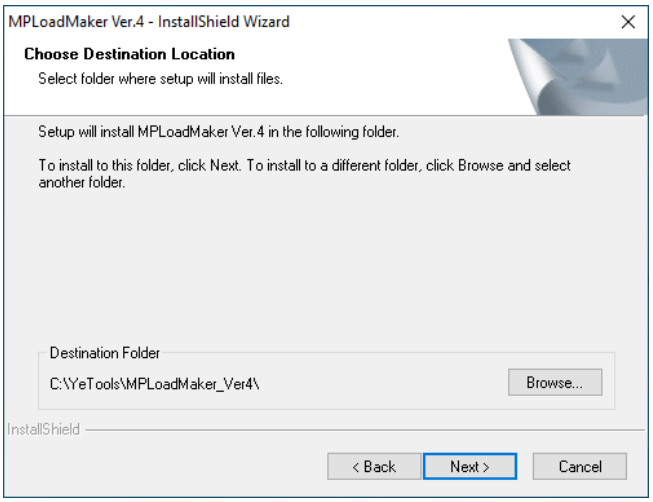
1. Insert the MPLoad Maker Version 4 installation CD-ROM into the CD-ROM drive.
2. Double-click the SETUP.EXE file in the folder on the CD-ROM.
   The following window is displayed.



When preparations are completed, the following window is displayed.

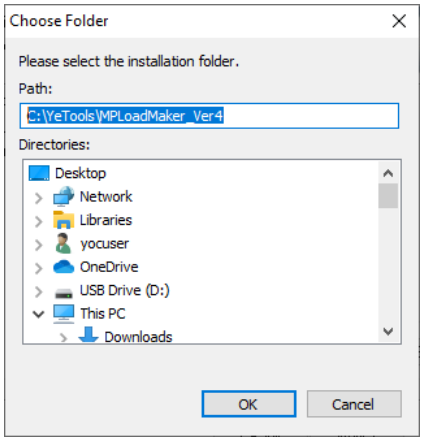


3. Click the **Next** Button.
The following window is displayed.



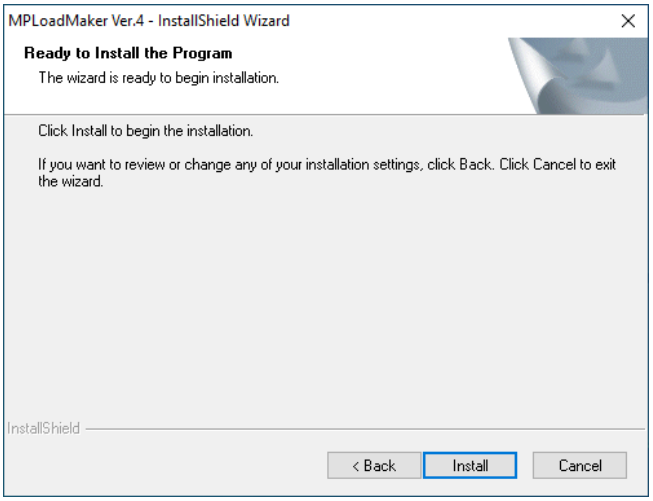
4. Check to make sure that the installation folder is selected correctly.

Changing the Installation Folder
1. Click the **Browse** Button.
   The Choose Folder Window is displayed.

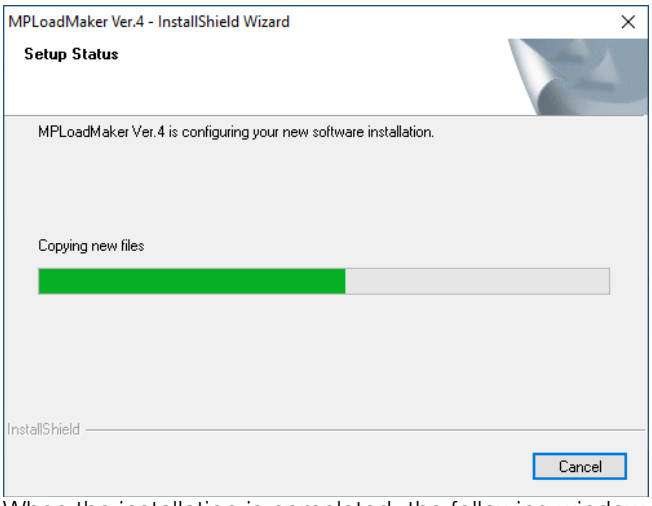


2. Select the installation folder from the **Path** Box and the **Directories** Box.
3. Click the **OK** Button.

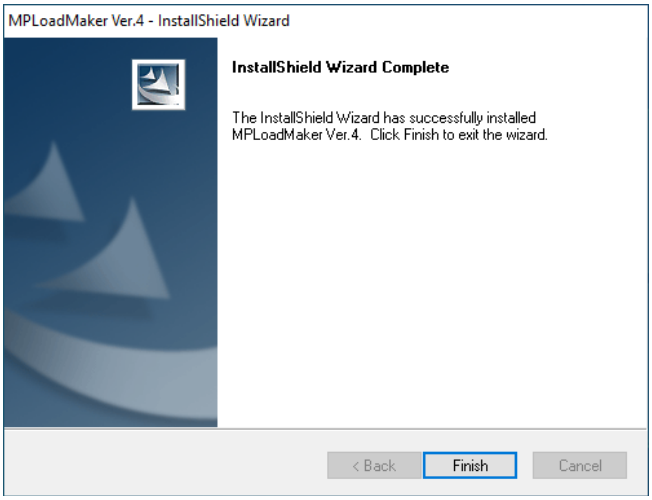
5. Click the **Next** Button.
The following window is displayed.



6. Click the **Install** Button.
The installation is started and the following window is displayed.



When the installation is completed, the following window is displayed.

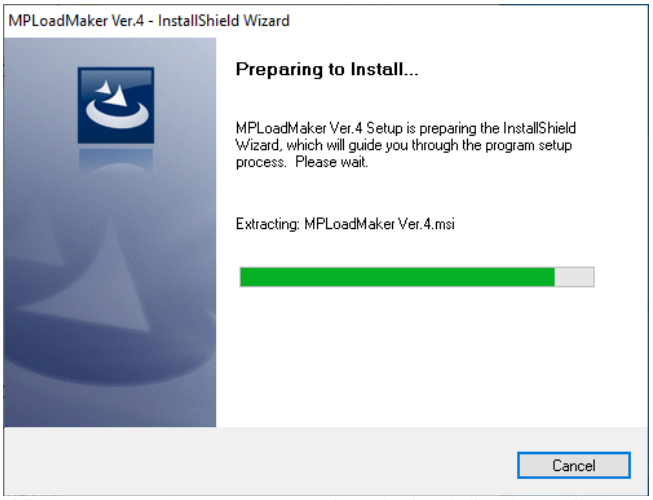


7. Click the **Finish** Button.
This completes the installation of the MPLoad Maker Version 4.

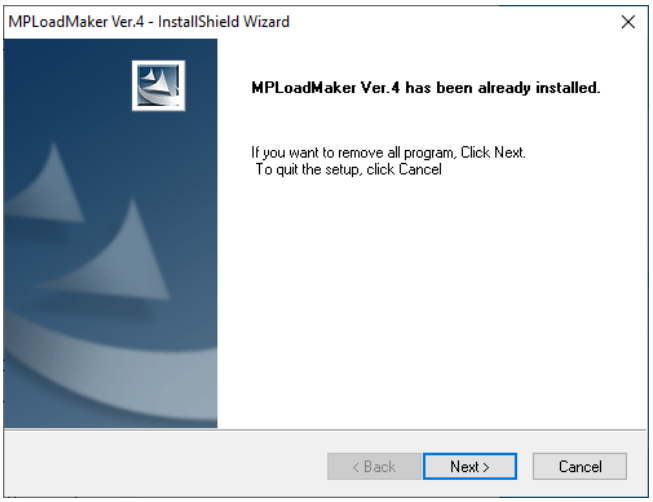
2.2 Uninstallation Procedure

Use the following procedure to uninstall the MPLoad Maker Version 4.

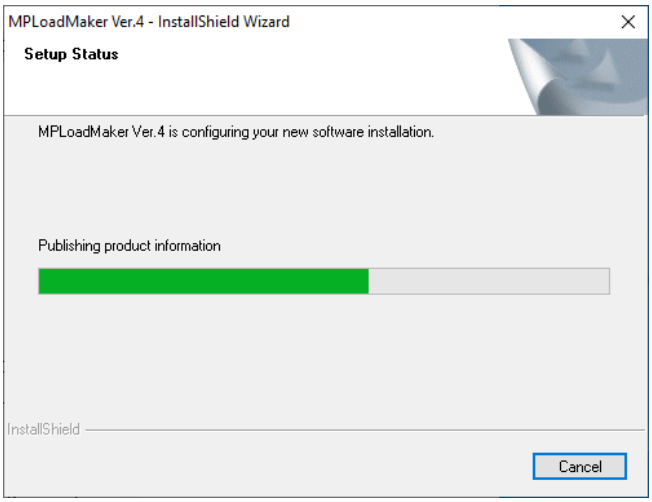
1. Insert the MPLoad Maker Version 4 installation CD-ROM into the CD-ROM drive.
2. Double-click the SETUP.EXE file in the folder on the CD-ROM.
   The following window is displayed.



When preparations are completed, the following window is displayed.



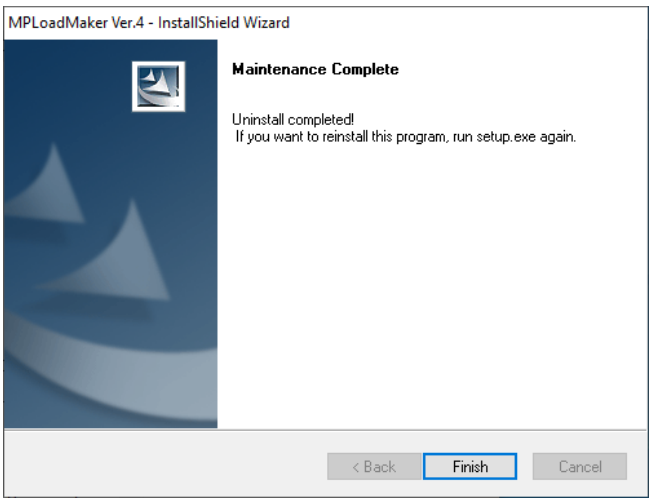
3. Click the **Next** Button.
The uninstallation is started and the following window is displayed.



Important

If the uninstallation process is canceled before it is completed, the icon for the MPLoad Maker Version 4 may remain in the program folder. The operation of the MPLoad Maker Version 4 may not be dependable in this condition. To use MPLoad Maker Version 4, repeat the uninstallation process until it is completed, and then install the MPLoad Maker Version 4 again.

When the uninstallation process is completed, the following window is displayed.



4. Click the **Finish** Button.
This completes the uninstallation of the MPLoad Maker Version 4.

Transferring YMW/ YMW7 Files

3

This chapter tells how to use the MPLoad Maker Version 4 and how to transfer YMW/YMW7 files.

3.1 Transferring YMW/YMW7 Files from a CD-ROM

Use the following procedure to transfer YMW/YMW7 files from a CD-ROM.

1. Set up communications for the target PC.
2. Create the Auto_MPL.
3. Create the Auto_MPLCD.
4. Execute the Auto_MPL.

3.1.1 Communications Settings for Target PC

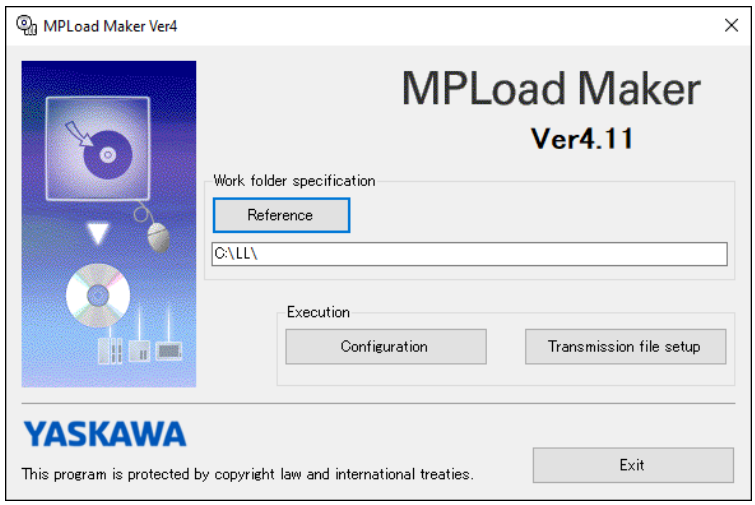
Start the MPLoad Maker to set up the communications for the target PC. The following six methods are available for communications between the target PC and the Machine Controller.

- ETHERNET
- SERIAL
- PCI
- USB
- Remote
- PCI Express

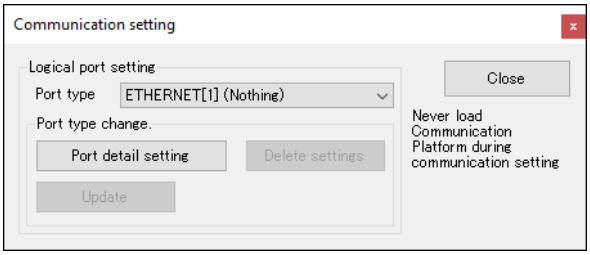

Important

Check the following before you make the communications settings: the IP address of the target PC, the serial port (COM port) number to use for communications between the target PC and Machine Controllers and, if the MP2100 is mounted, the CP number.

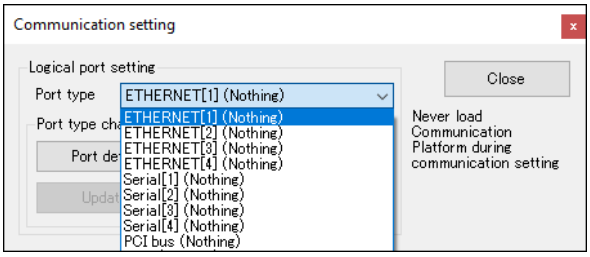
1. Select ***Programs*** – ***YE_Applications*** – ***MPLoad Maker Ver. 4*** from the Windows Start Menu.
The Main Window is displayed.



2. Click the **Configuration** Button in the Main Window.
The Communications Setting Window is displayed.



3. Select the port type to use in the **Port type** Box.

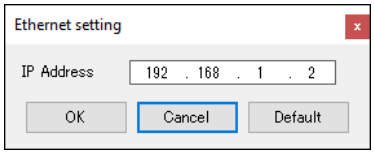


4. Click the **Port detail setting** Button.
The setting window for the selected port type is displayed.

5. Make the communications settings for the selected port.

Ethernet Communications

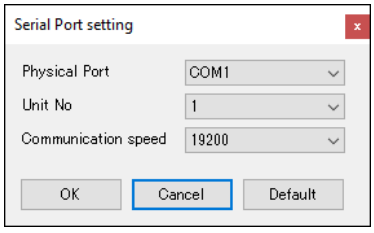
Enter the IP address of the target PC, and then click the **OK** Button.



The Communications Setting Window is displayed again and the **Update** Button is enabled.

Serial Communications

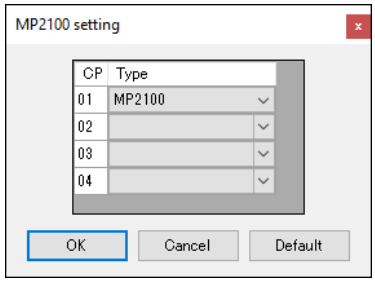
Set the physical port, unit number, and communications speed (i.e., baud rate), and then click the **OK** Button.



The Communications Setting Window is displayed again and the **Update** Button is enabled.

PCI Communications

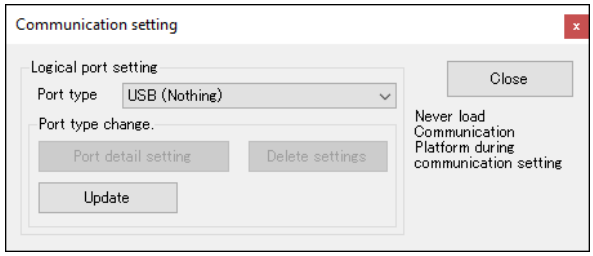
Select **MP2100** in the box in the **Type** column that is next to the CP number of the transfer destination MP2100 board, and then click the **OK** Button. (The CP number is set on the DIP switch on the MP2100.)



The Communications Setting Window is displayed again and the **Update** Button is enabled.

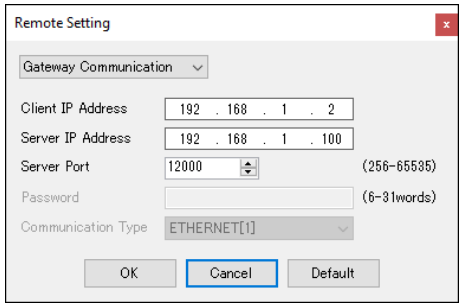
USB Communications

The **Port detail setting** Button is disabled and the **Update** Button is enabled.



Remote Communications

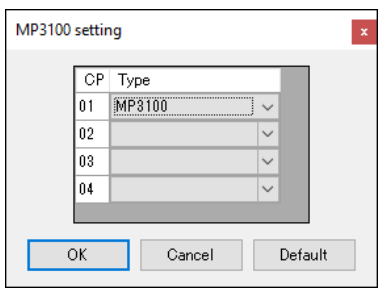
Enter the client IP address of the transfer source, the server IP address of the transfer destination, and the server port, and then click the **OK** Button.



The Communications Setting Window is displayed again and the **Update** Button is enabled.

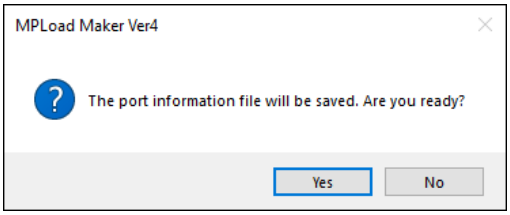
PCI Express Communications

Click the ▼ Button next to the CP number of the transfer destination MP3100 board, select **MP3100** from the combo box, and then click the **OK** Button. (The CP number is set on the DIP switch on the MP3100.)

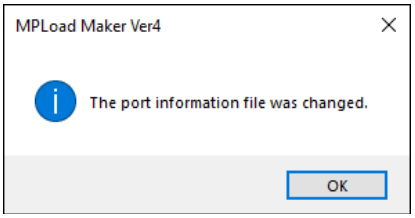


The Communications Settings Window is displayed again and the **Update** Button is enabled.

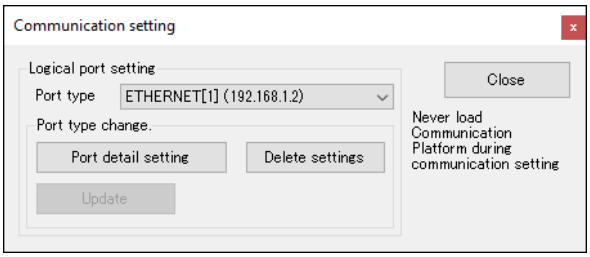
6. Click the **Update** Button in the Communications Setting Window.
The following message dialog box is displayed.



7. Click the **Yes** Button.
The following message dialog box is displayed.



8. Click the **OK** Button.
The Communications Setting Window is displayed again.



Information To delete communications settings, select the port type to delete in the **Port type** Box in the Communications Setting Window, and then click the **Delete settings** Button.

9. To use more than one port, repeat steps 3 through 8 to make the communications settings for each port.

10. Click the **Close** Button.

This completes the setup of the communications for the target PC.

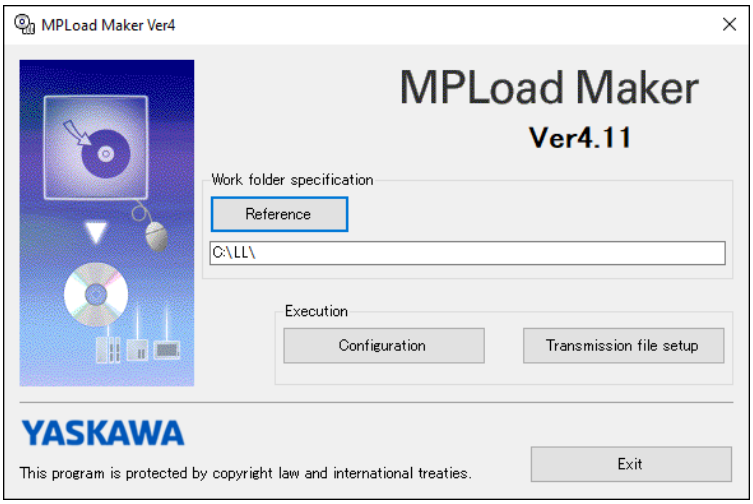
3.1.2 Creating the Auto_MPL

To create the Auto_MPL, you must specify the YMW/YMW7 file to transfer and the destination Machine Controller (i.e., the connected CPU Module).

Important

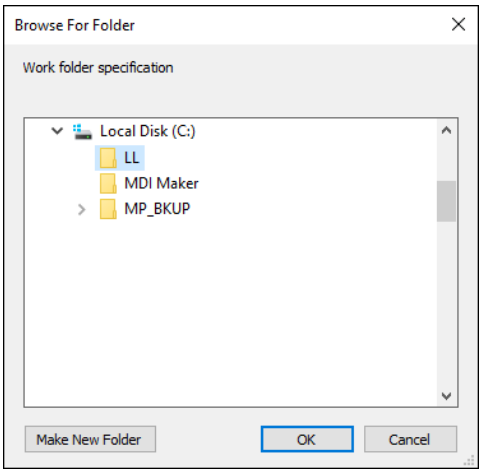
1. Create a folder with any folder name to store the Auto_MPL. One Auto_MPL folder corresponds to one Auto_MPLCD.
2. If the YMW/YMW7 file was created in advance, check the MPLoader transfer settings in the Environment Setting Window of the MPE720. Refer to the following sections for details.
☞ *4.2 Transfer Settings for YMW Files* on page 4-5
☞ *4.3 Transfer Settings for YMW7 Files* on page 4-7

1. Specify the work folder for the Auto_MPL in the Main Window of the MPLoad Maker.
Click the **Reference** Button in the **Work folder specification** Area.



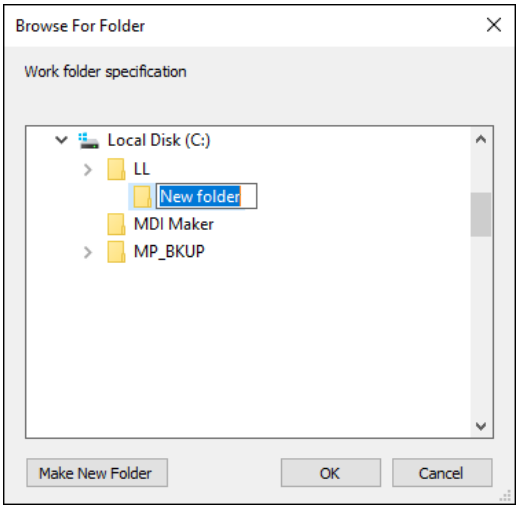
The Browse For Folder Window is displayed.

2. Click the work folder to specify it.



Creating a New Work Folder

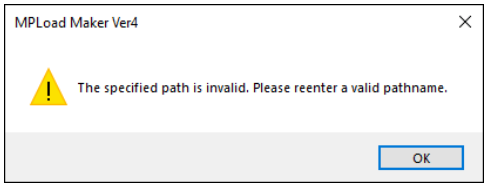
1. Click the **Make New Folder** Button in the Browse For Folder Window.



2. Enter the folder name and click the **OK** Button.
   The Main Window is displayed again.

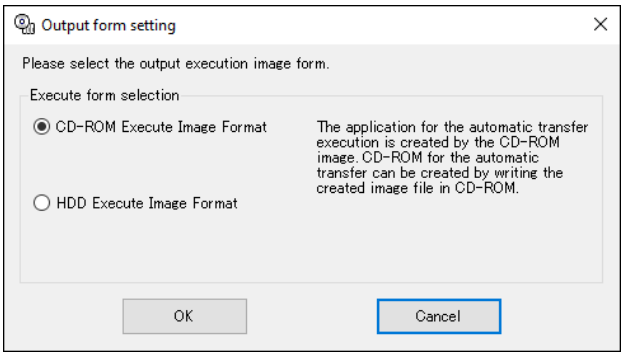
Information

You can also directly enter the path name of the work folder in the text box in the Main Window. Enter the path name of the folder in the text box, and then click the **Transmission file setup** Button. If the path name that you entered directly does not exist, the following message dialog box is displayed.

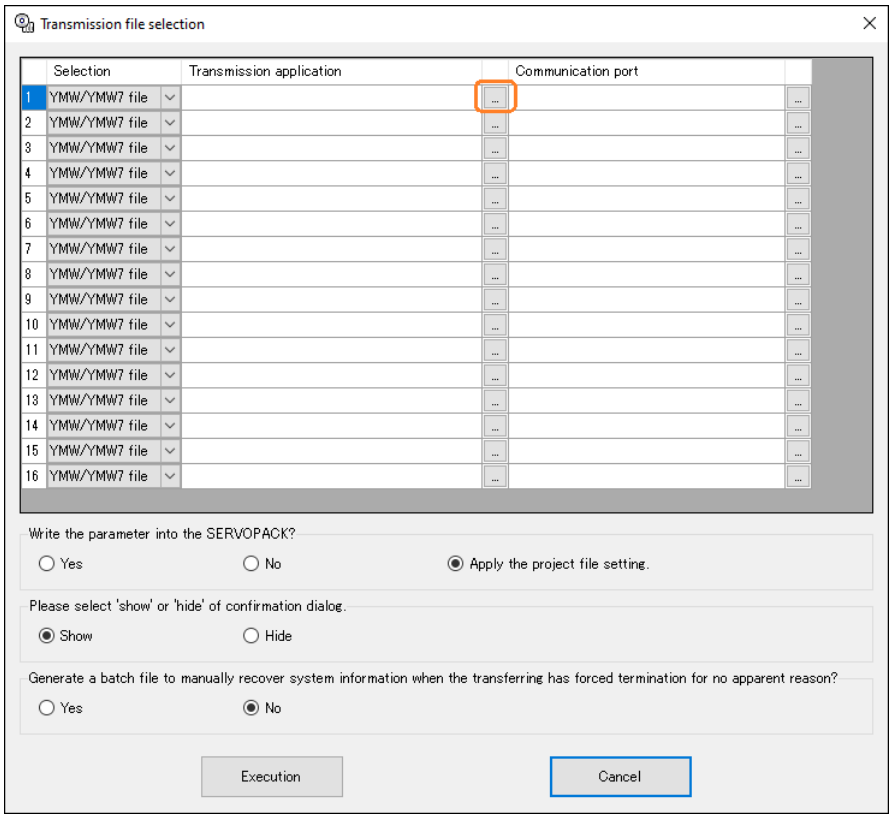


3. Click the **OK** Button.
The Main Window is displayed again.

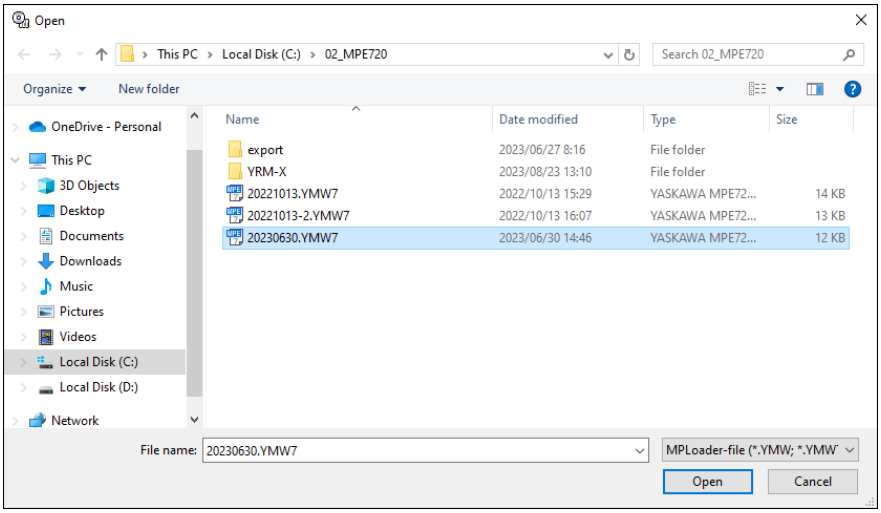
4. Click the **Transmission file setup** Button in the Main Window.
The Output Form Setting Window is displayed.



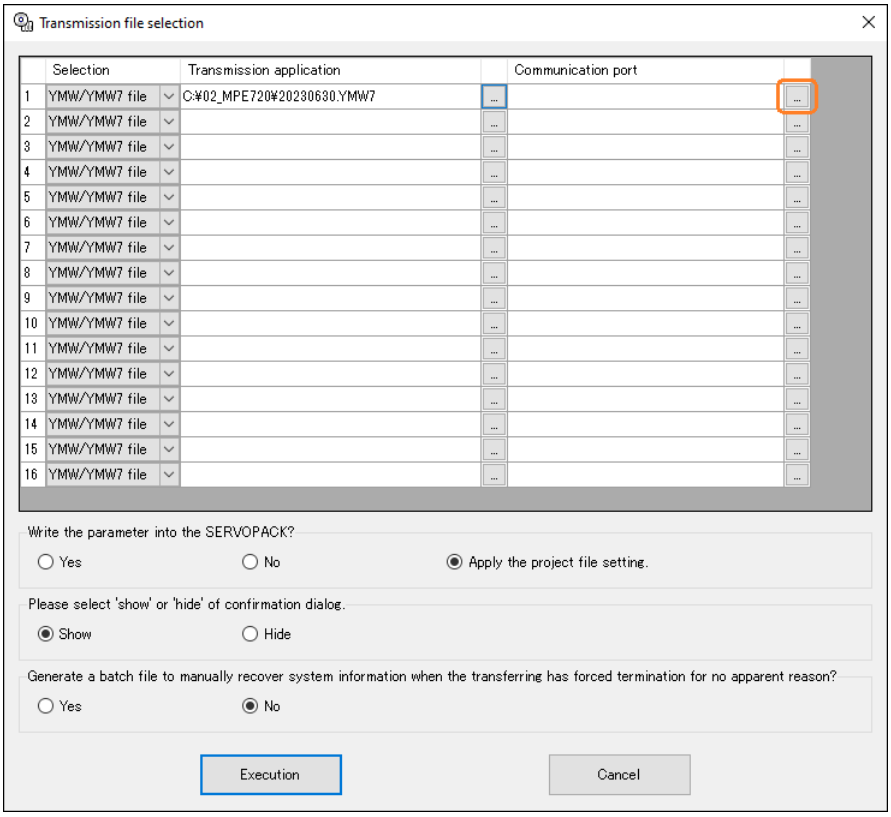
5. Select the **CD-ROM Execute Image Format** Option, and then click the **OK** Button.
The Transmission File Selection Window is displayed.



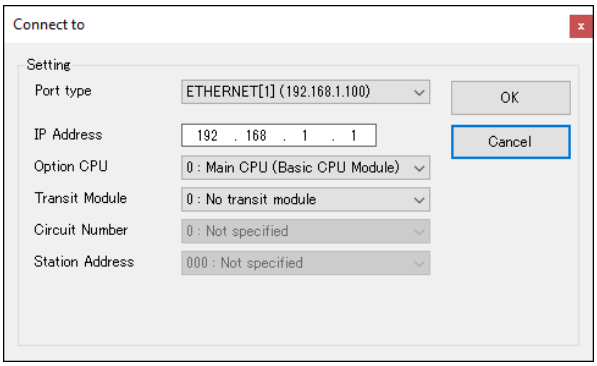
6. Click the [...] Button to the right of a cell in the **Transmission application** column.
The Open Window is displayed.



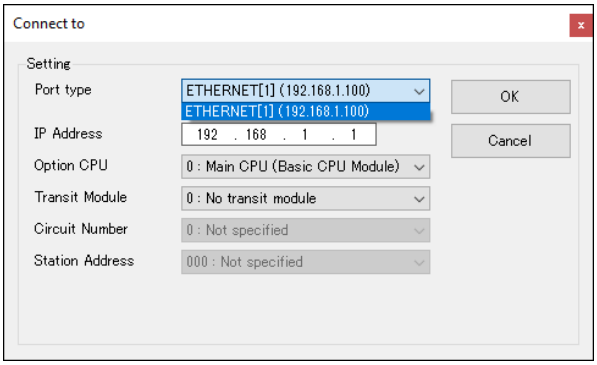
7. Select one YMW or YMW7 file to transfer, and then click the **Open** Button.
The Transmission File Selection Window is displayed again.



8. Check the path name of the YMW or YMW7 file that is displayed in the **Transmission application** column, and then click the [...] Button to the right of the cell in the **Communication port** column.
The Connect to Window is displayed.



9. Select the port type to use for transfer at the target PC in the **Port type** Box.



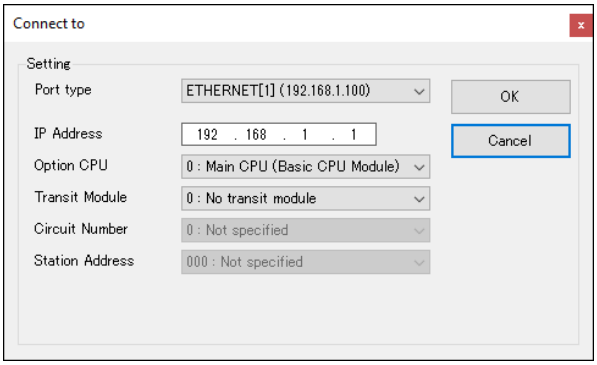
The items to set depend on the selected port type.

Information You can select any of the port types that were set in the Communications Setting Window as the port type to use for transfer.

10. Set the Module to use at the transfer destination Machine Controller.

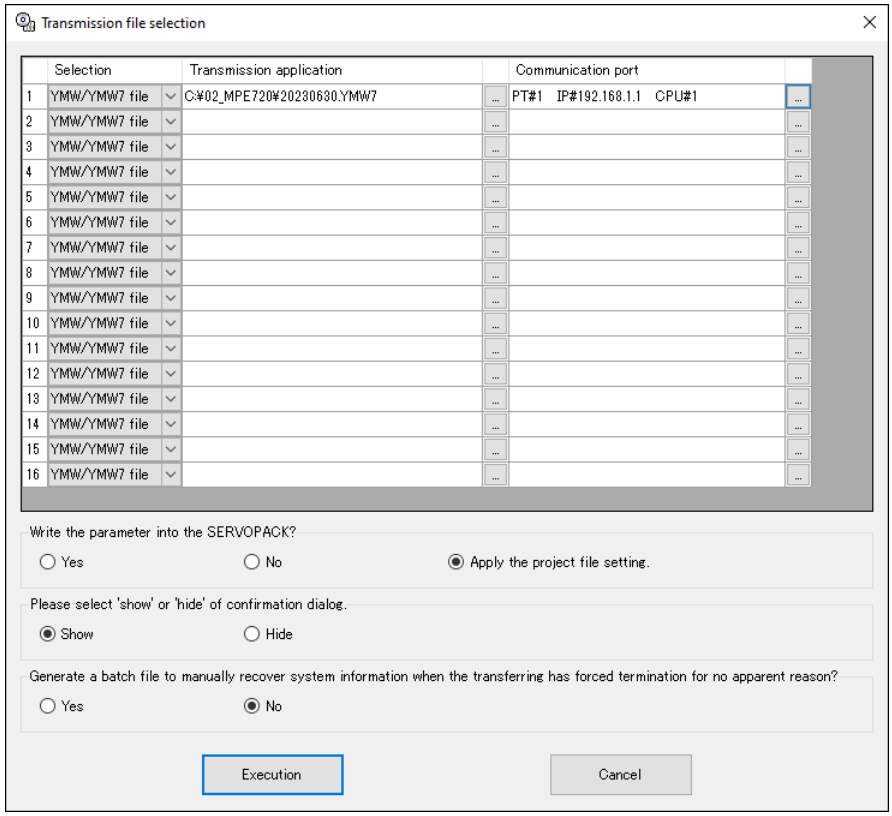
Ethernet Communications

IP Address: The default setting (192.168.1.1) is displayed. Change the setting to the IP address of the transfer destination.
Option CPU: The default setting (0: Main CPU (Basic CPU Module)) is displayed. If the transfer destination is an MPU-01 Machine Controller, change the setting to the same value as the circuit number of the MPU-01.
If the transfer destination is a Σ-XS SERVOPACK with FT55 specification or a Σ-XS SERVOPACK with FT56 specification, change the settings of the transit module, the circuit number, and the station address to the same values as those of the Σ-XS SERVOPACK with FT55 specification or the Σ-XS SERVOPACK with FT56 specification.



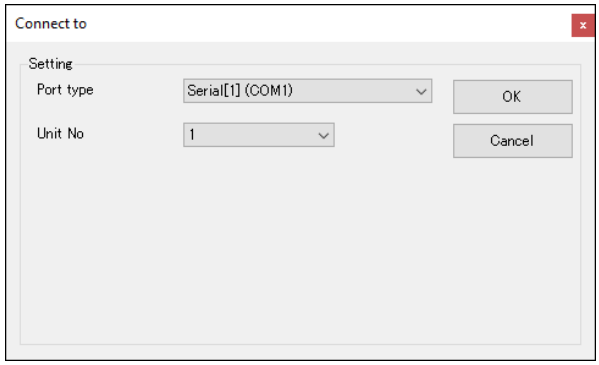
Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.

The selected logical port number and the settings for the port are displayed in the **Communication port** column.



Serial Communications

Unit No.: The value that is set in the Serial Port Setting Window is displayed. You can change the value.



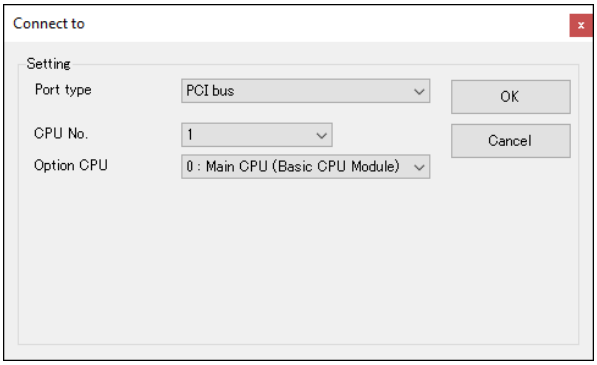
Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.

The selected logical port number and the settings for the port are displayed in the **Communication port** column.

PCI Communications

CPU No.: Select the CPU number of the transfer destination Machine Controller. Select a CPU number from the CP numbers (CPU numbers) for which settings were made in the MP2100 Setting Window.

Option CPU: The default setting (0: Main CPU (Basic CPU Module)) is displayed. If the transfer destination is an MPU-01 Machine Controller, change the setting to the same value as the circuit number of the MPU-01.

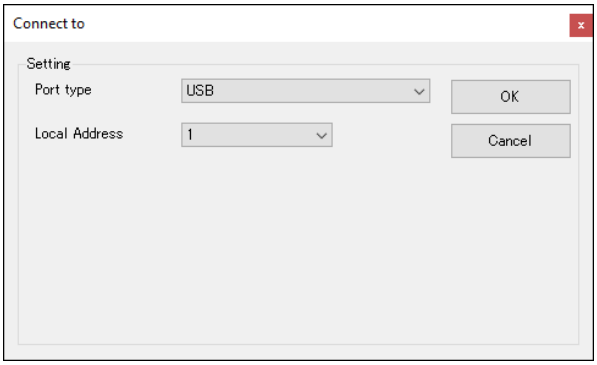


Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.

The selected logical port number and the settings for the port are displayed in the **Communication port** column.

USB Communications

Local Address: Select the USB port address of the transfer destination Machine Controller.

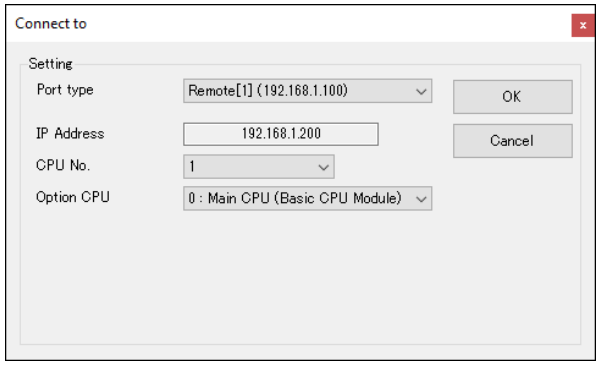


Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.

The selected logical port number and the settings for the port are displayed in the **Communication port** column.

Remote Communications

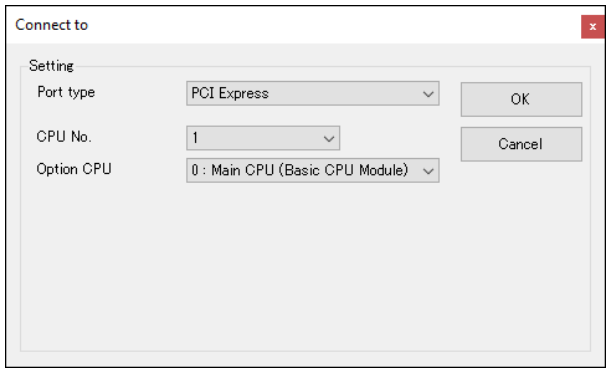
CPU No.: Select the CPU number of the transfer destination Machine Controller.
Option CPU: The default setting (0: Main CPU (Basic CPU Module)) is displayed.
If the transfer destination is an MPU-01 Machine Controller, change the setting to the same value as the circuit number of the MPU-01.



Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.
The selected logical port number and the settings for the port are displayed in the **Communication port** column.

PCI Express Communications

CPU No.: Select the CPU number of the transfer destination Machine Controller. Select a CPU number from the CP numbers (CPU numbers) for which settings were made in the MP3100 Window.
Option CPU: The default setting (0: Main CPU (Basic CPU Module)) is displayed. If the transfer destination is an MPU-01 Machine Controller, change the setting to the same value as the circuit number of the MPU-01.



Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.
The selected logical port number and the settings for the port are displayed in the **Communication port** column.

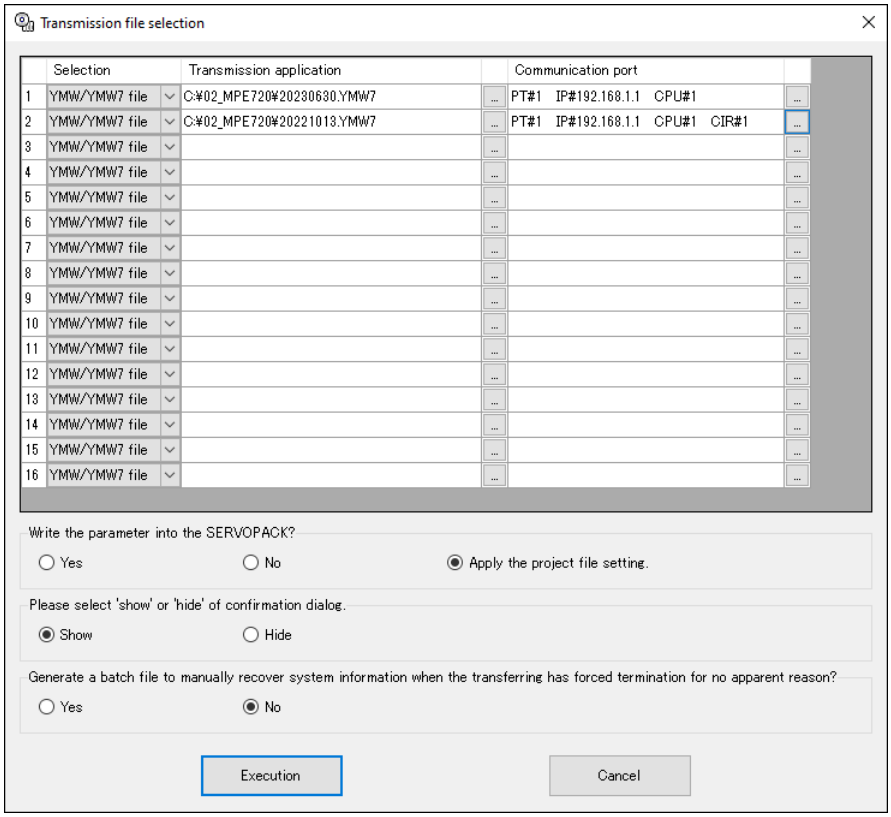
11. Repeat steps 6 through 10 to set each of the applications to transfer and the transfer destinations.

Important

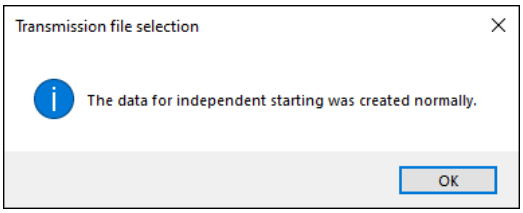
1. Also repeat the settings from the file selection to the communications port settings to set the same application for multiple transfer destinations.
2. Do not close the Transmission File Selection Window until the application selection and communications port settings have been completed and the Auto_MPL has been created by clicking the **Execution** Button. Closing the window before clicking the **Execution** Button will delete all the information that is set for the application.

Information

1. If the **Show** Option is selected in the **Please select 'show' or 'hide' of confirmation dialog** Area, a confirmation window will be displayed when the Auto_MPLCD is inserted in the CD-ROM drive of the target PC.
   This allows you to check the transfer file names and communications port settings.
2. If the auto-start CD-ROM is ended from the Windows Task Manager or the power supply is turned OFF to the target PC where the MPE720 is installed, the MPE720 may not start any more.
3. If you select the **Yes** Option in the **Generate a batch file to manually recover system information when the transferring has forced termination for no apparent reason?** Area, a backup of the previous configuration will be made in the following folder.
   <User profile folder>\AppData\Local\Temp\MPL_WORK
   If the backup must be restored, manually run the following restoration batch file in this folder.
   MPLoadMaker_Restore_{execution date and time: yyyymmdd_hhmmss}.bat
4. If **Apply the project file setting.** is selected under **Write the parameter into the SERVOPACK?**, the SERVOPACK parameters will be written to the SERVOPACK according to the transfer options set with MPE720 for each transfer file. Refer to the following section for details.
   ☞ *4.3 Transfer Settings for YMW7 Files* on page 4-7
   If **Yes** is selected, the SERVOPACK parameters saved in the transfer files will be written to the SERVOPACK, regardless of the transfer options set for each file.
   If **No** is selected, the SERVOPACK parameters saved in the transfer files will not be written to the SERVOPACK, regardless of the transfer options set for each file.

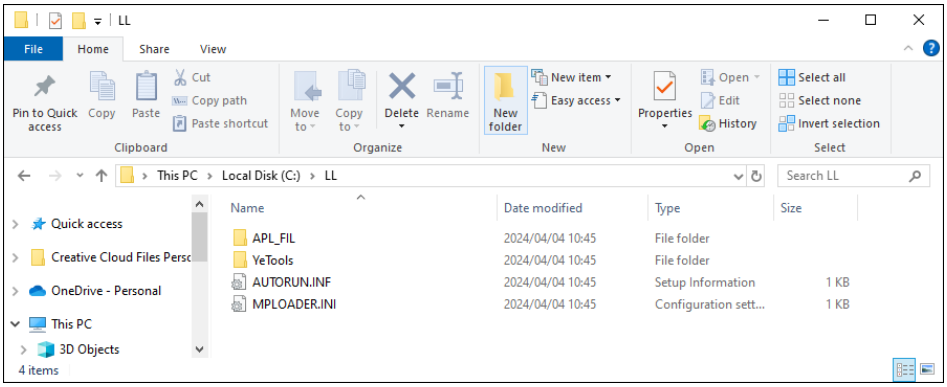


12. After you select all of the applications to transfer and complete all communications port settings, click the **Execution** Button.
The MPLoad Maker will start creating the Auto_MPL. When the Auto_MPL has been created, the following message dialog box is displayed.



13. Click the **OK** Button.

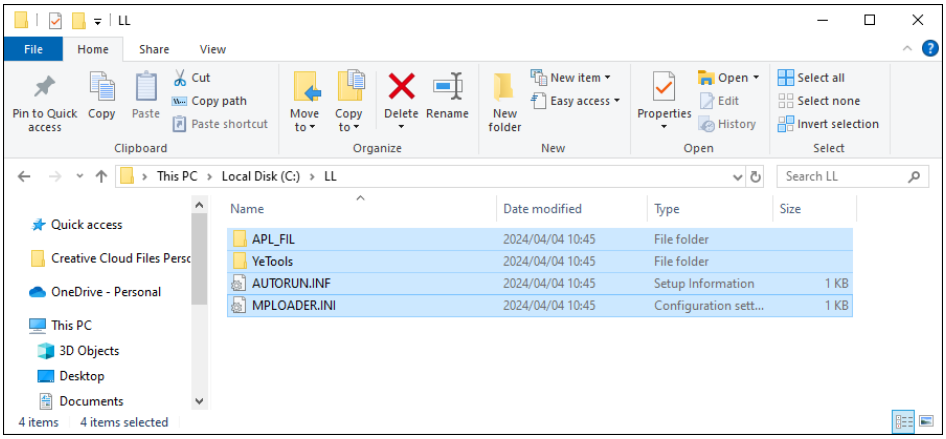
14. Open the work folder that was specified in step 1.
Make sure that the folders and files that are shown below have been created.



This completes the creation of the Auto_MPL.

3.1.3 Creating the Auto_MPLCD

Use a CD-RW device or driver to write the created Auto_MPL to a CD-ROM. The CD-ROM to which the Auto_MPL is written is called the Auto_MPLCD.



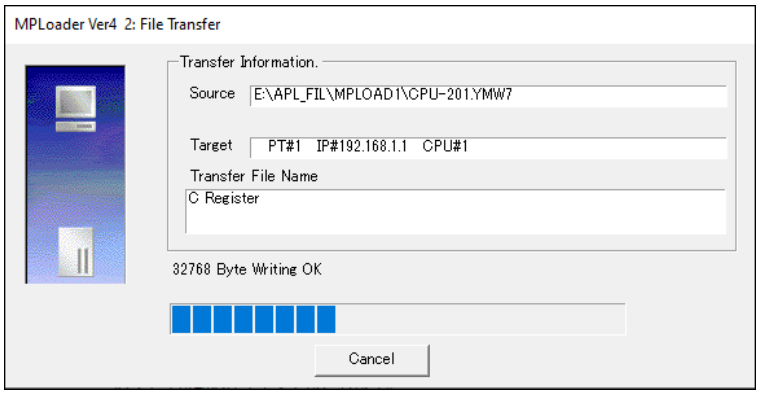
Important

1. Write all four of the files/folders in the work folder to the CD-ROM.
2. When writing the Auto_MPL to the CD-ROM, a message concerning directory levels may appear. If the writing operation must be interrupted, change the settings. For example, change the number of write directory levels to 10 levels or more.
3. If the created Auto_MPLCD is left in the CD-ROM drive, the Auto_MPL will automatically start running. Be sure to remove the Auto_MPLCD from the CD-ROM drive after writing is completed.

3.1.4 Executing the Auto_MPL

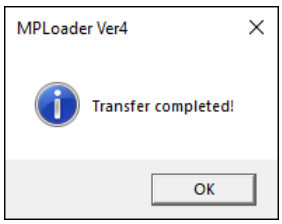
Insert the created Auto_MPLCD into the CD-ROM drive of the target PC. The Auto_MPL will automatically start. The application will be extracted and transferred to the Machine Controller.

During the transfer, the following File Transfer Window is displayed.



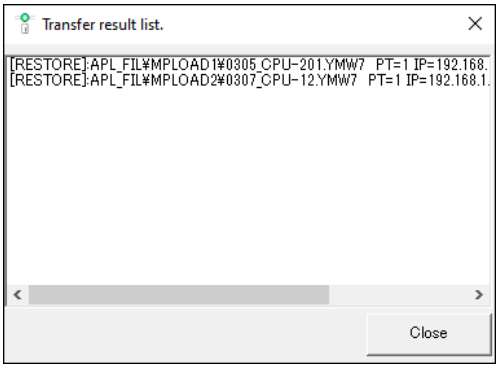
Information Click the **Cancel** Button in the File Transfer Window to cancel the transfer.

A confirmation message dialog box will displayed. Click the **OK** Button to complete the operation.



Important

If the transfer fails, the following Transfer Result List Window is displayed.

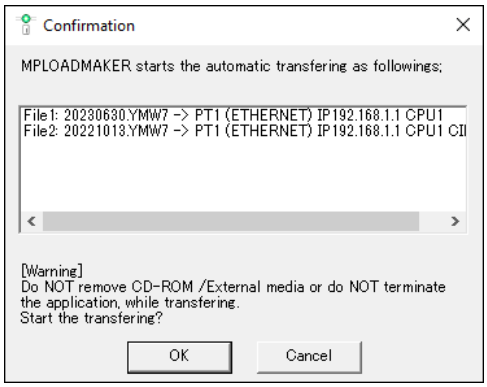


One of the following may be the cause.

- The actual IP address is different from the address that was set when the Auto_MPL was created.
- The actual serial port (COM port) number is different from the number that was set when the Auto_MPL was created.
- The actual CPU number for the MP2100 is different from the number that was set when the Auto_MPL was created.
- The actual CPU number for the MP3100 is different from the number that was set when the Auto_MPL was created.
- The actual USB address is different from the address that was set when the Auto_MPL was created.
- The target PC is not connected to the Machine Controller.

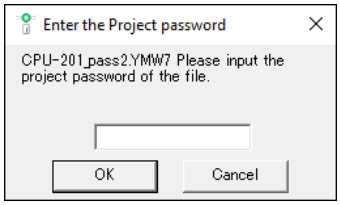
Information

1. Displaying the Confirmation Window
If you selected the **Show** Option in the **Please select 'show' or 'hide' of confirmation dialog** Area in the Transmission File Selection Window when you created the Auto_MPL, the Confirmation Window will be displayed when you insert the Auto_MPLCD that you created into the CD-ROM drive of the target PC.
This allows you to check the transfer settings.



Click the **OK** Button to continue the transfer.
Click the **Cancel** Button to cancel the transfer.

2. Passwords on YMW/YMW7 Files
If a project password was set for the YMW/YMW7 file, the Enter the Project Password Window will be displayed as shown below when you insert the Auto_MPLCD that you created into the CD-ROM drive of the target PC.



Enter the correct password and then click the **OK** Button. The transfer will continue.
Click the **Cancel** Button to cancel the transfer.

3. YMW/YMW7 File Option for Writing to Flash Memory after Transfer
If the **The flash saving is executed after transfer** Check Box was selected when the YMW/YMW7 file was created on MPE720 version 6 or 7, the data that was transferred to the Machine Controller will be saved in the flash memory of the Machine Controller.

3.2 Transferring YMW/YMW7 Files from the HDD

Use the following procedure to transfer YMW/YMW7 files from the HDD.

1. Set up communications for the target PC.
2. Create a .BAT file, which can be started from the HDD.
3. Copy the .BAT file to the target PC.
4. Execute the .BAT file.

3.2.1 Communications Settings for Target PC

Set up communications in the same way as described for transferring YMW/YMW7 files from a CD-ROM. Refer to the following section for details.

☞ *3.1 Transferring YMW/YMW7 Files from a CD-ROM* on page 3-2

3.2.2 Creating a .BAT File to Start from the HDD

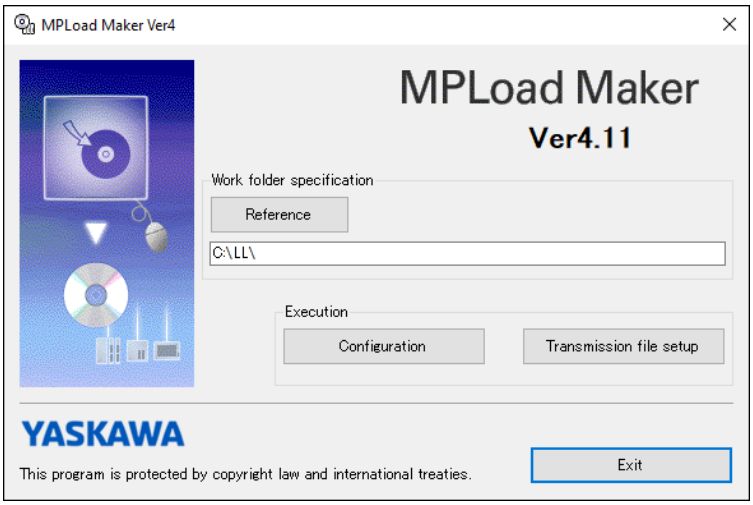
To create the .BAT file to start from the HDD, you must specify the YMW/YMW7 file to transfer and the destination Machine Controller (i.e., the connected CPU Module).

Important

1. Create a folder with any folder name to store the .BAT file.
2. If the YMW/YMW7 file was created in advance, check the MPLoader transfer settings in the Environment Setting Window of the MPE720. Refer to the following section for details.

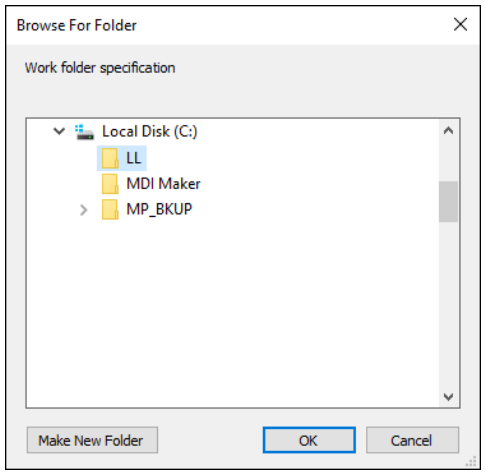
☞ *4.2 Transfer Settings for YMW Files* on page 4-5
☞ *4.3 Transfer Settings for YMW7 Files* on page 4-7

1. Specify the work folder for the startup file in the Main Window of the MPLoad Maker.
Click the **Reference** Button in the **Work folder specification** Area.



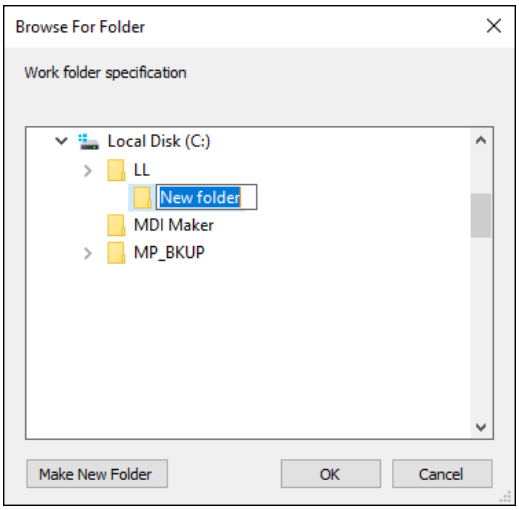
The Browse For Folder Window is displayed.

2. Click the work folder to specify it.



Creating a New Work Folder

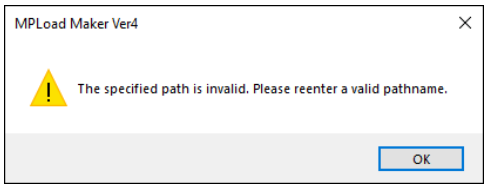
1. Click the **Make New Folder** Button in the Browse For Folder Window.



2. Enter the folder name and click the **OK** Button.
   The Main Window is displayed again.

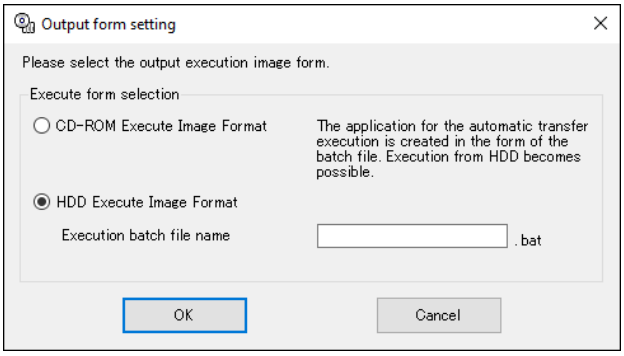
Information

You can also directly enter the path name of the work folder in the text box in the Main Window. Enter the path name of the folder in the text box, and then click the **Transmission file setup** Button. If the path name that you entered directly does not exist, the following message dialog box is displayed.

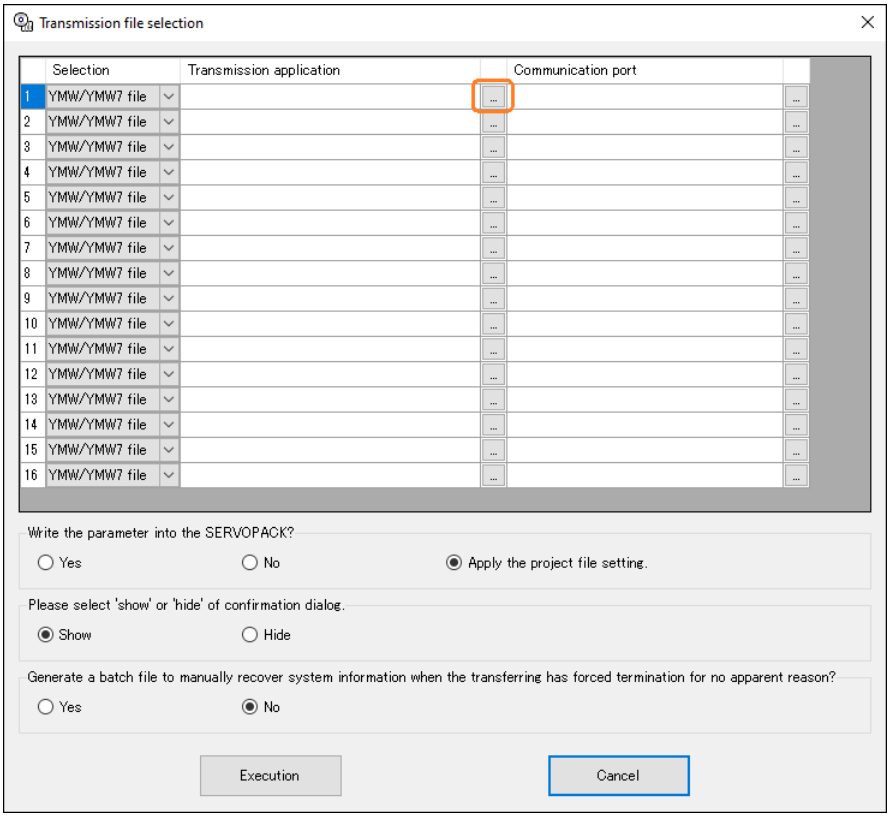


3. Click the **OK** Button.
The Main Window is displayed again.

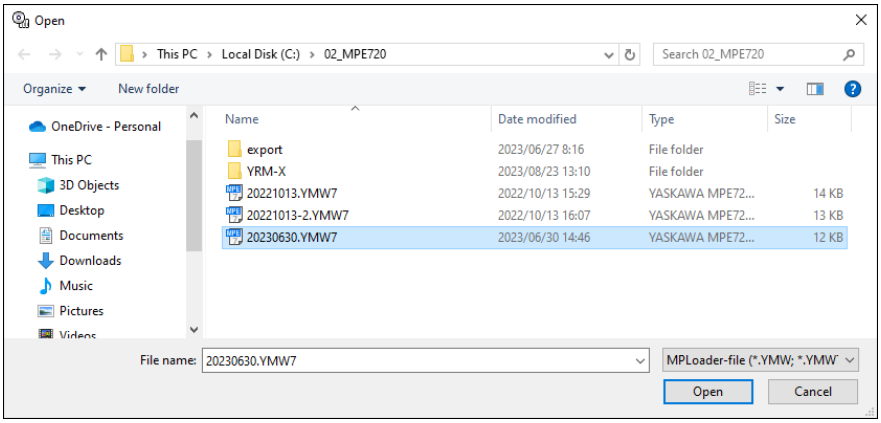
4. Click the **Transmission file setup** Button in the Main Window.
The Output Form Setting Window is displayed.



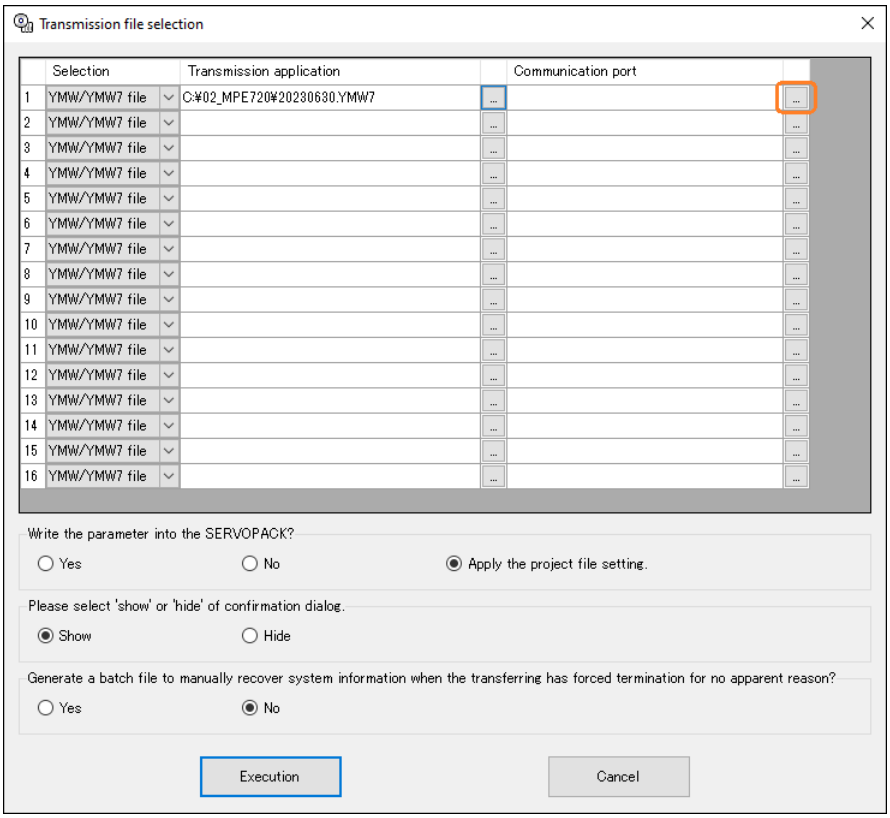
5. Select the **HDD Execute Image Format** Option, enter the .BAT file name, then click the **OK** Button.
The Transmission File Selection Window is displayed.



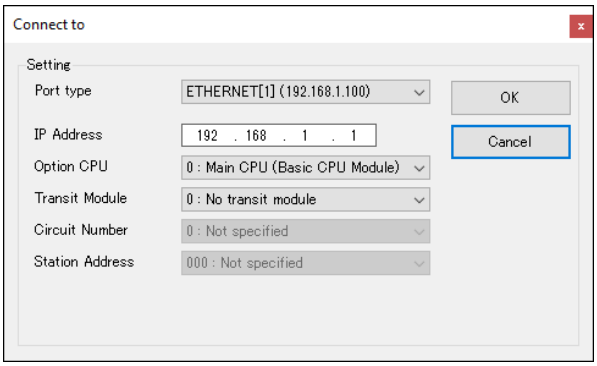
6. Click the [...] Button to the right of a cell in the **Transmission application** column.
The Open Window is displayed.



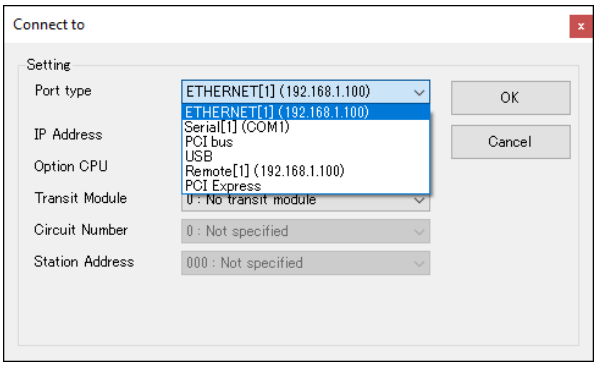
7. Select one YMW or YMW7 file to transfer, and then click the **Open** Button.
The Transmission File Selection Window is displayed again.



8. Check the path name of the YMW or YMW7 file that is displayed in the **Transmission application** column, and then click the [...] Button to the right of the cell in the **Communication port** column.
The Connect to Window is displayed.



9. Select the port type to use for transfer at the target PC in the **Port type** Box.



The items to set depend on the selected port type.

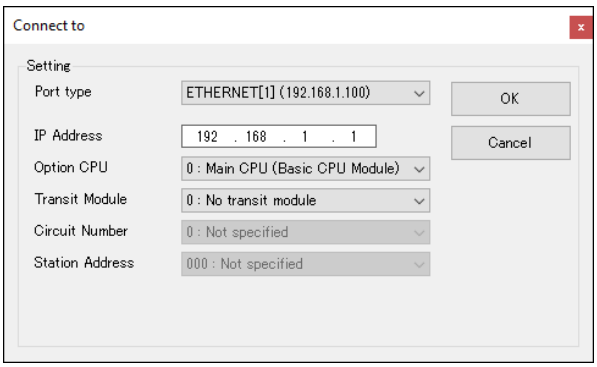
Information You can select any of the port types that were set in the Communications Setting Window as the port type to use for transfer.

10. Set the Module to use at the transfer destination Machine Controller.

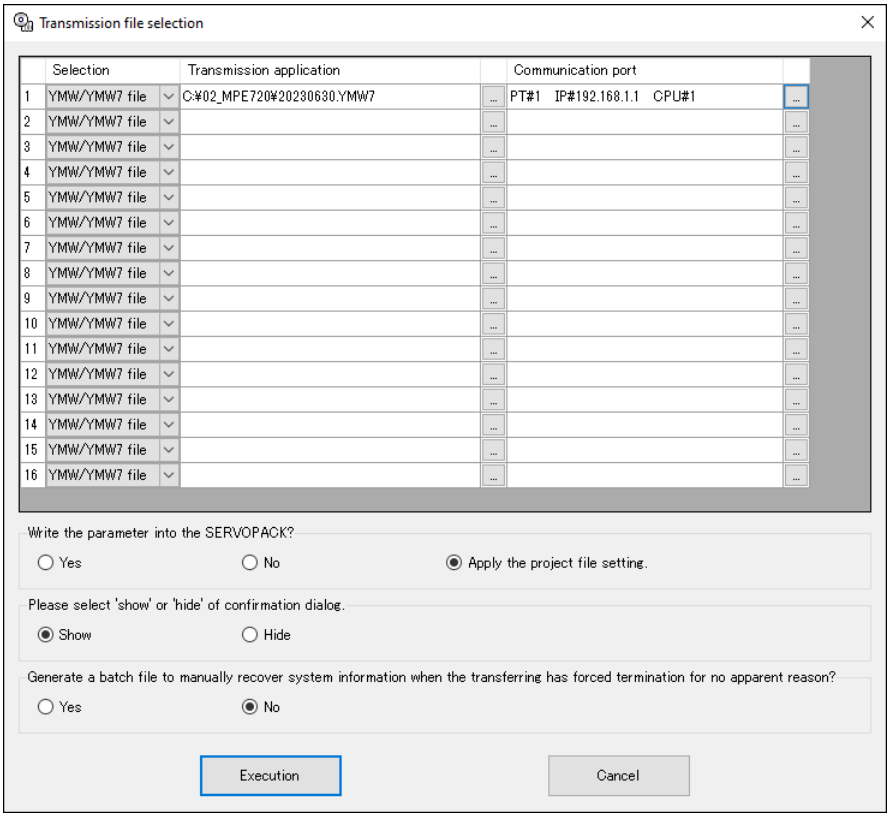
Ethernet Communications

IP Address: The default setting (192.168.1.1) is displayed. Change the setting to the IP address of the transfer destination.

Option CPU: The default setting (0: Main CPU (Basic CPU Module)) is displayed. If the transfer destination is an MPU-01 Machine Controller, change the setting to the same value as the circuit number of the MPU-01.
If the transfer destination is a Σ-XS SERVOPACK with FT55 specification or a Σ-XS SERVOPACK with FT56 specification, change the settings of the transit module, the circuit number, and the station address to the same values as those of the Σ-XS SERVOPACK with FT55 specification or the Σ-XS SERVOPACK with FT56 specification.

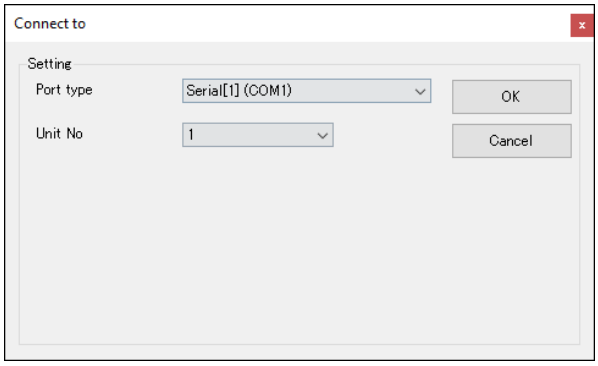


Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.
The selected logical port number and the settings for the port are displayed in the **Communication port** column.



Serial Communications

Unit No.: The value that is set in the Serial Port Setting Window is displayed. You can change the value.

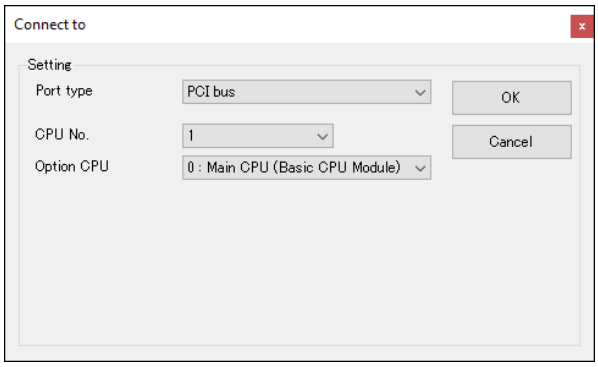


Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.
The selected logical port number and the settings for the port are displayed in the **Communication port** column.

PCI Communications

CPU No.: Select the CPU number of the transfer destination Machine Controller. Select a CPU number from the CP numbers (CPU numbers) for which settings were made in the MP2100 Setting Window.

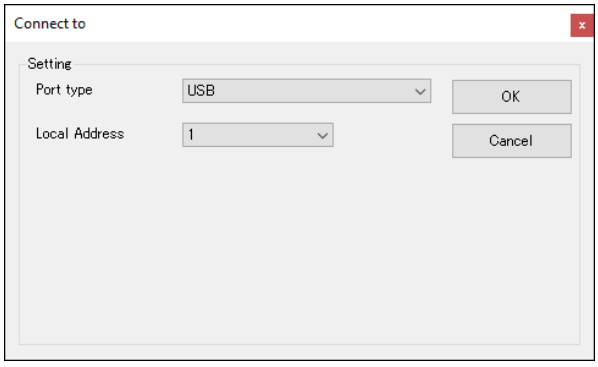
Option CPU: The default setting (0: Main CPU (Basic CPU Module)) is displayed. If the transfer destination is an MPU-01 Machine Controller, change the setting to the same value as the circuit number of the MPU-01.



Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.
The selected logical port number and the settings for the port are displayed in the **Communication port** column.

USB Communications

Local Address: Select the USB port address of the transfer destination Machine Controller.

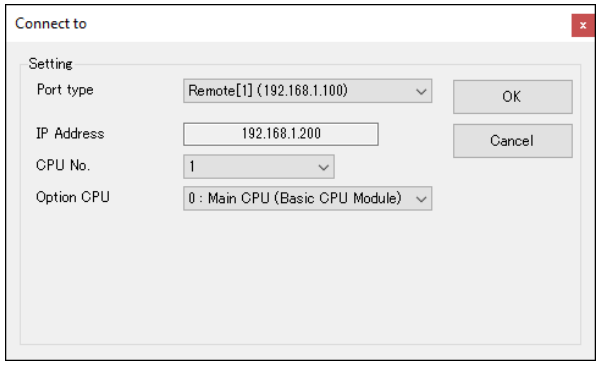


Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.
The selected logical port number and the settings for the port are displayed in the **Communication port** column.

Remote Communications

CPU No.: Select the CPU number of the transfer destination Controller.

Option CPU: The default setting (0: Main CPU (Basic CPU Module)) is displayed. If the transfer destination is an MPU-01 Machine Controller, change the setting to the same value as the circuit number of the MPU-01.



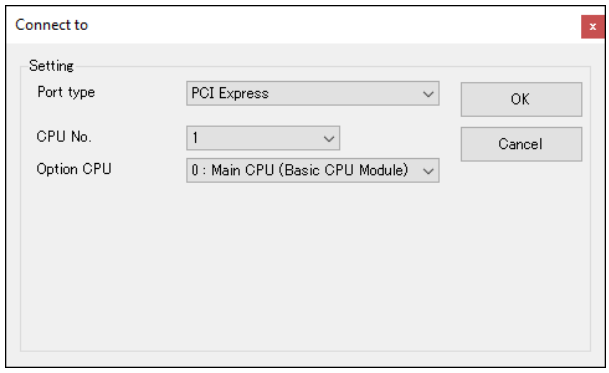
Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.

The selected logical port number and the settings for the port are displayed in the **Communication port** column.

PCI Express Communications

CPU No.: Select the CPU number of the transfer destination Machine Controller. Select a CPU number from the CP numbers (CPU numbers) for which settings were made in the MP2100 Setting Window.

Option CPU: The default setting (0: Main CPU (Basic CPU Module)) is displayed. If the transfer destination is an MPU-01 Machine Controller, change the setting to the same value as the circuit number of the MPU-01.



Click the **OK** Button to complete the settings. The Transmission File Selection Window is displayed again.

The selected logical port number and the settings for the port are displayed in the **Communication port** column.

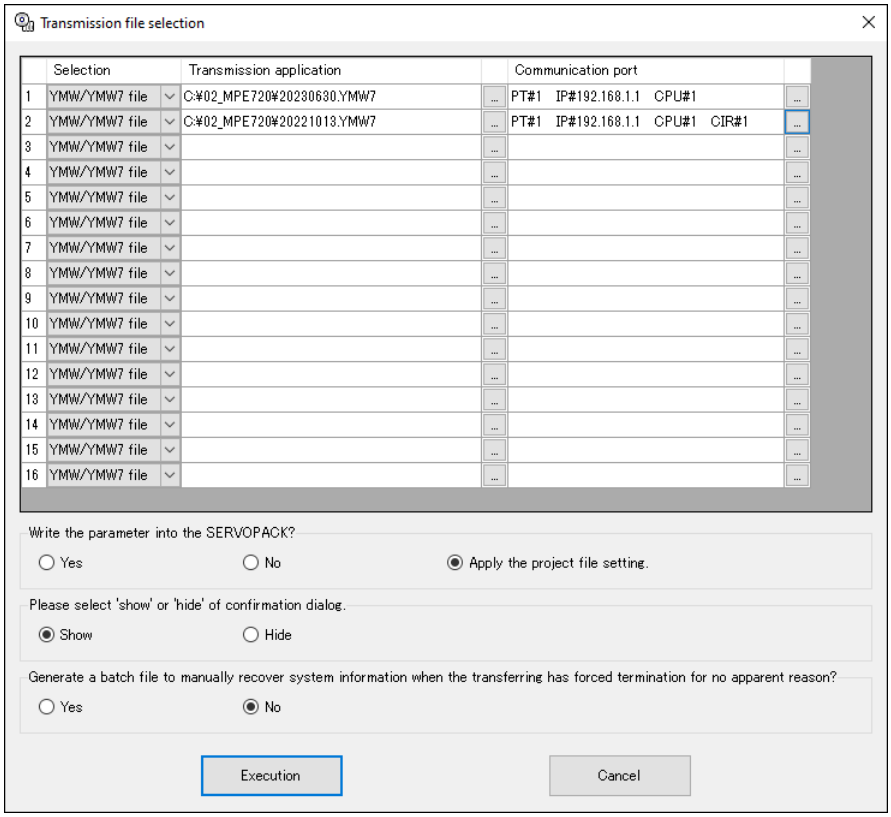
11. Repeat steps 6 through 10 to set each of the applications to transfer and the transfer destinations.

Important

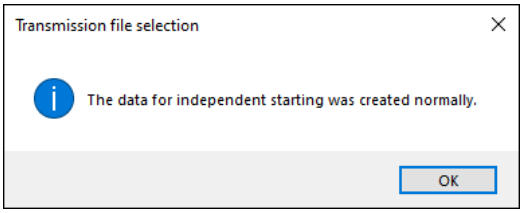
1. Also repeat the file selection to communications port settings to set one application to multiple transfer destinations.
2. Do not close the Transmission File Selection Window until the application selection and communications port settings have been completed and the .BAT file has been created by clicking the **Execution** Button. Closing the window before clicking the **Execution** Button will delete all the information that is set for the application.

Information

1. If the **Show** Option is selected in the **Please select 'show' or 'hide' of confirmation dialog** Area, a confirmation window will be displayed when the .BAT file is started on the target PC.
   This allows you to check the transfer file names and communications port settings.
2. If the auto-start of the .BAT file is ended from the Windows Task Manager or the power supply is turned OFF to the target PC where the MPE720 is installed, the MPE720 may not start any more.
3. If you select the **Yes** Option in the **Generate a batch file to manually recover system information when the transferring has forced termination for no apparent reason?** Area, a backup of the previous configuration will be made in the following folder.
   <User profile folder>\AppData\Local\Temp\MPL_WORK
   If the backup must be restored, manually run the following restoration batch file in this folder.
   MPLoadMaker_Restore_{execution date and time: yyyymmdd_hhmmss}.bat
4. If **Apply the project file setting.** is selected under **Write the parameter into the SERVOPACK?**, the SERVOPACK parameters will be written to the SERVOPACK according to the transfer options set with MPE720 for each transfer file. Refer to the following section for details.
   ☞ *4.3 Transfer Settings for YMW7 Files* on page 4-7
   If **Yes** is selected, the SERVOPACK parameters saved in the transfer files will be written to the SERVOPACK, regardless of the transfer options set for each file.
   If **No** is selected, the SERVOPACK parameters saved in the transfer files will not be written to the SERVOPACK, regardless of the transfer options set for each file.

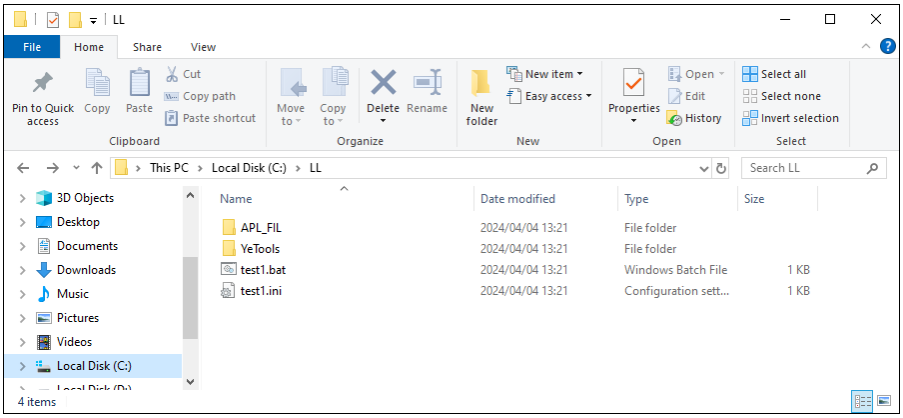


12. After you select all of the applications to transfer and complete all communications port settings, click the **Execution** Button.
    The MPLoad Maker will start creating the .BAT file. When the .BAT file has been created, the following message dialog box is displayed.



13. Click the **OK** Button.

14. Open the work folder that was specified in step 1.
Make sure that the folders and files that are shown below have been created.



This completes the creation of the .BAT file.

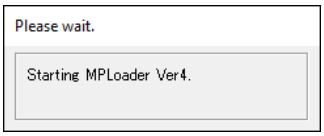
3.2.3 Copying the .BAT File to the Target PC

Use a commercial USB memory stick or other media and copy all of the files and folders in the work folder to the target PC.

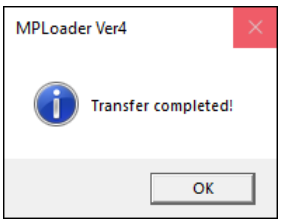
3.2.4 Executing the .BAT File

Double-click the .BAT file in the folder that you copied to the target PC. The file will automatically start, and the application will be extracted and transferred to the Machine Controller.

1. Double-click the .BAT file to start the file automatically.
The following window is displayed.

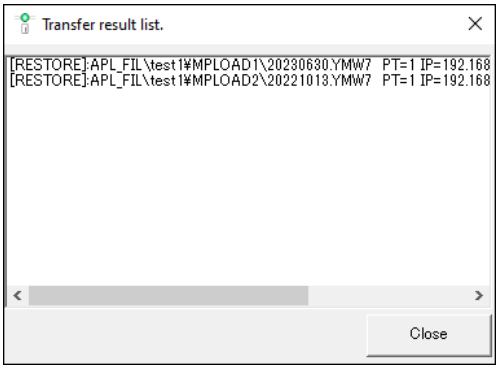


2. A confirmation message dialog box will displayed. Click the **OK** Button to complete the operation.



Important

If the transfer fails, the following Transfer Result List Window is displayed.

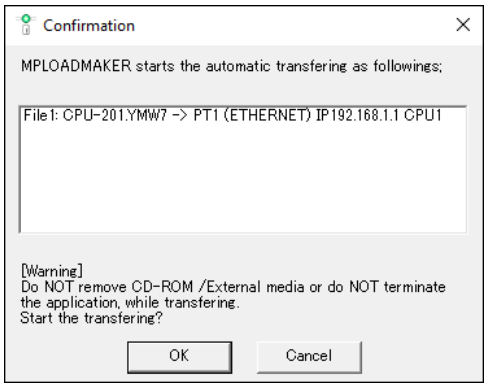


One of the following may be the cause.

- The actual IP address is different from the address that was set when the .BAT file was created.
- The actual serial port (COM port) number is different from the number that was set when the .BAT file was created.
- The actual CPU number for the MP2100 is different from the number that was set when the .BAT file was created.
- The actual CPU number for the MP3100 is different from the number that was set when the .BAT file was created.
- The actual USB address is different from the address that was set when the .BAT file was created.
- The target PC is not connected to the Machine Controller.

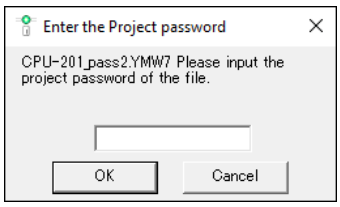
Information

1. Displaying the Confirmation Dialog Box
   If you selected the **Show** Option in the **Please select 'show' or 'hide' of confirmation dialog** Area in the Transmission File Selection Window when you created the .BAT file, the Confirmation Window will be displayed when you execute the .BAT file that you created on the target PC. This allows you to check the transfer settings.



   Click the **OK** Button to continue the transfer.
   Click the **Cancel** Button to cancel the transfer.

2. Passwords on YMW/YMW7 Files
   If a project password was set for the YMW/YMW7 file, the Enter the Project Password Window will be displayed as shown below when you execute the .BAT file that you created.



   Enter the correct password and then click the **OK** Button. The transfer will continue.
   Click the **Cancel** Button to cancel the transfer.

3. YMW/YMW7 File Option for Writing to Flash Memory after Transfer
   If the **The flash saving is executed after transfer** Check Box was selected when the YMW/YMW7 file was created on MPE720 version 6 or 7, the data that was transferred to the Machine Controller will be saved in the flash memory of the Machine Controller.

Appendices

4

The appendices list the errors that can occur and describe the transfer settings for YMW/YMW7 files.

4.1 Errors

The following tables list the error messages that are displayed on the PC on which the MPLoad Maker is installed and error messages that are displayed on the target PC. Causes and corrective actions are also given.

4.1.1 Error Messages Displayed on a PC with the MPLoad Maker Installed

Error Message	Cause	Corrective Actions
The selected folder contains invalid controller data. Specify a YMW/YMW7 file that was created with the MPE720.	The file that was selected in the Open Window that was opened from the Transmission File Selection Window is not a valid YMW/YMW7 file.	• Specify a valid YMW/YMW7 file. • The YMW/YMW7 file may be corrupted. Contact the person that provided the file or create the file again.
The communication port is not specified.	The **Execution** Button was clicked without specifying a communications port in the Transmission File Selection Window.	Select a communications port.
The specified path is invalid. You need to input valid directory path.	Invalid characters were used in the path name that was entered in the Work Folder Specification Box, or an unknown folder was specified.	Enter the correct path name.

4.1.2 Error Messages Displayed on the Target PC

Error Message	Cause	Corrective Actions
Transfer error has occurred.	An error occurred during data transfer.	• Make sure that the target PC and Controller are connected properly. • Repeat the data transfer procedure.
The file transfer has not been completed to the end.	The transfer was interrupted before completion.	• Make sure that the target PC and Controller are connected properly. • Repeat the data transfer procedure.
This file is broken or not YMW/YMW7 file.	The file that was specified to be read is not a YMW/YMW7 file.	• Specify a valid YMW/YMW7 file. • The YMW/YMW7 file may be corrupted. Contact the person that provided the file.
File construction is corrupt!!	The YMW/YMW7 file is corrupted.	The YMW/YMW7 file may be corrupted. Contact the person that provided the file.
Failure in extracting from YMW/YMW7 file!!	The data cannot be extracted from the YMW/YMW7 file.	Repeat the procedure for reading the YMW/YMW7 file.
File transfer was incomplete.	This message is displayed after error information when the transfer cannot be completed normally.	An error occurred during transfer. Correct the error according to the error information that is displayed.
Can't logon CPU.	Logging on was not performed normally.	Check the status of the connection between the target PC and the PLC.
Please create communication setting for logical port you like.	Nothing is set for the logical port.	Set the communications port.

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Error Message	Cause	Corrective Actions
User Name or Password you input is corrupt.	An invalid character is set in the user name or password.	Reset the user name or password using only valid characters.
If you use YMW/YMW7 file, retry logon with correct UserName or PassWord.	Logging on was not performed normally when loading a YMW/YMW7 file.	• Make sure that the type of the connected PLC agrees with the YMW/YMW7 file. • Contact the person that created the YMW/YMW7 file.
Failure in extracting from file!! The program is interrupted.	The YMW/YMW7 data cannot be extracted due to a system error and the autostart CD-ROM that was created with the MPLoad Maker cannot function properly.	Restart the autostart CD-ROM.
Can't find port information file in your system. You may have to create the transfer files again on the MPLoad Maker.	The communications process settings for the autostart CD-ROM are not correct.	Set the communications settings by using the MPLoad Maker, and then create the transfer files again. Then, create the autostart CD-ROM again.
This program can't go on any more!! This program is to be concluded.	The autostart CD-ROM operation became unstable due to a system error.	• Restart the autostart CD-ROM. • Reboot the target PC, and then start the CD-ROM again.
The FLASH write operation was unsuccessful.	The procedure for writing to flash memory was not performed normally.	• Check the status of the connection between the target PC and the PLC. • Repeat the procedure for writing to flash memory.
Confirm whether application has been installed correctly.	The autostart CD-ROM cannot start.	Create the transfer file again by using the MPLoad Maker. Then, create the autostart CD-ROM again.
Failure in reading in system registry data.	An error occurred during autostart CD-ROM startup.	Create the transfer file again by using the MPLoad Maker. Then, create the autostart CD-ROM again.
Can't find port information file in your system. Please create PortInfo.dat with Communication setting.	There is no communications settings file.	• Set up the communications port. • Create the transfer file again by using the MPLoad Maker. Then, create the autostart CD-ROM again.
Can't get information of transferring from YMW/YMW7 file.	The specified YMW/YMW7 file is corrupted.	Create the transfer file again by using the MPLoad Maker. Then, create the autostart CD-ROM again.
Available disk space is not enough for loading of MPL700 Client.	An attempt was made to execute an autostart CD-ROM when there is less than 25 Mbytes of space available on the drive of the target PC.	Ensure that there is at least 25 Mbytes of space available on the drive of the target PC where the autostart CD-ROM is executed.
Environment parameter mismatch with controller.	The type of PLC that is connected is different from the PLC type that was specified with the MPLoad Maker.	• Make sure that the correct PLC is connected. • Make sure that the YMW/YMW7 file is correct.
Failed in initializing for work folder.	The autostart CD-ROM's work folder was not initialized normally.	• Create the transfer file again by using the MPLoad Maker. Then, create the autostart CD-ROM again. • Contact your YASKAWA representative.
Can't access the communications platform. The port for the communications platform is not set correctly, or there is some trouble connecting to the controller.	The communications settings are incorrect, or if there is a problem in the connection between the target PC and the PLC.	• Check the status of the connection between the target PC and the PLC. • Set the communications settings by using the MPLoad Maker, and create the transfer file again. Then, create the autostart CD-ROM again.

Continued on next page.

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Error Message	Cause	Corrective Actions
Can't call the communication manager.	There was an error in the created autostart CD-ROM or on the target PC.	• Reboot the target PC and then execute the autostart CD-ROM again. • Create the transfer file again by using the MPLoad Maker. Then, create the autostart CD-ROM again.
Can't call the communication manager.	The created autostart CD-ROM is corrupted.	Create the transfer file again by using the MPLoad Maker. Then, create the autostart CD-ROM again.
Communication timeout.	Communications with the PLC are not possible.	Check the status of the connection between the target PC and the PLC.

4.2 Transfer Settings for YMW Files

This appendix describes the transfer settings for transferring YMW files that were created on MPE720 version 6 to a Controller.

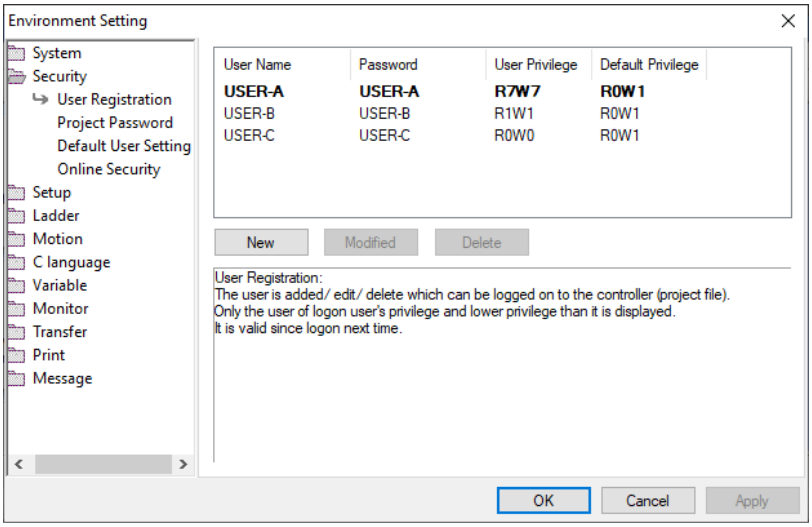
The default settings for YMW files that are created on MPE720 version 6 are given in the following table.

Default Settings

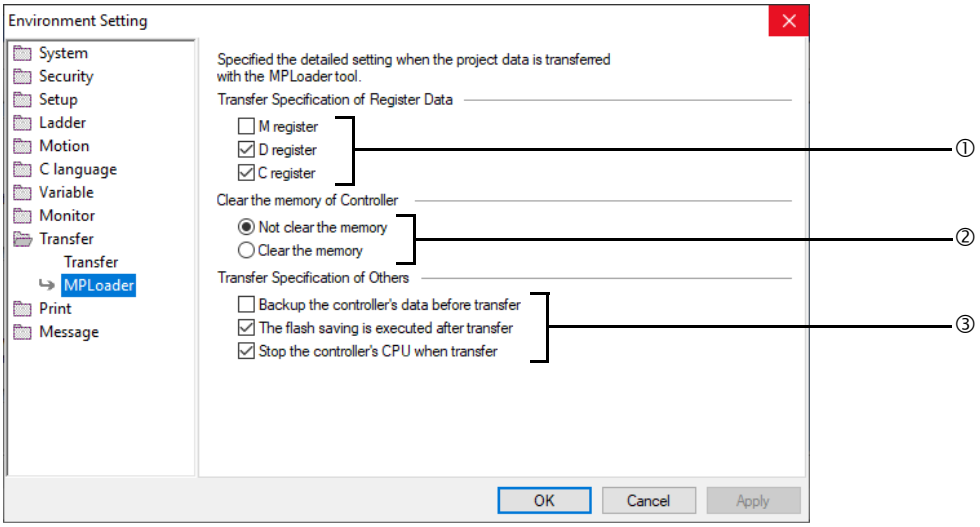
Transfer Specification of Register Data	D registers and C registers
Clear the Memory of Controller	Not clear the memory
Transfer Specifications of Others	The flash saving is executed after transfer
	Stop the controller's CPU when transfer

Use the following procedure to change the transfer settings from the default settings.

1. Start MPE720 version 6.
2. Open the YMW file to transfer.
3. Select ***File*** – ***Environment Setting*** from the menu bar.
   The Environment Setting Window is displayed.



4. Select **MPLoader** under **Transfer** in the left pane.



①Transfer Specification of Register Data
The data for the registers that are selected is transferred to the Controller.

②Clear the Memory of Controller
Not clear the memory Option: The transferred data is written to RAM in the Controller.
Clear the memory Option: The RAM in the Controller is cleared before executing the automatic transfer.

③Transfer Specification of Others
Backup the controller's data before transfer Check Box: This check box cannot be selected for the MPLoad Maker. It can be selected only for the MPLoader.
The flash saving is executed after transfer Check Box: The data is saved to flash memory after it is transferred.
Stop the controller's CPU when transfer Check Box: The CPU Module of the Controller is stopped during the transfer.

5. Make the required settings.

6. Click the **OK** Button.
This completes the setting procedure for the environment settings.
Note: Click the **Apply** Button to continue making the environment settings. The settings are enabled.

7. Select ***File*** – ***Save Project*** or ***File*** – ***Save Project File As*** from the menu bar.
The transfer settings are saved.

This completes the transfer settings.

4.3 Transfer Settings for YMW7 Files

This appendix describes the transfer settings for transferring YMW7 files that were created on MPE720 version 7 to a Controller.

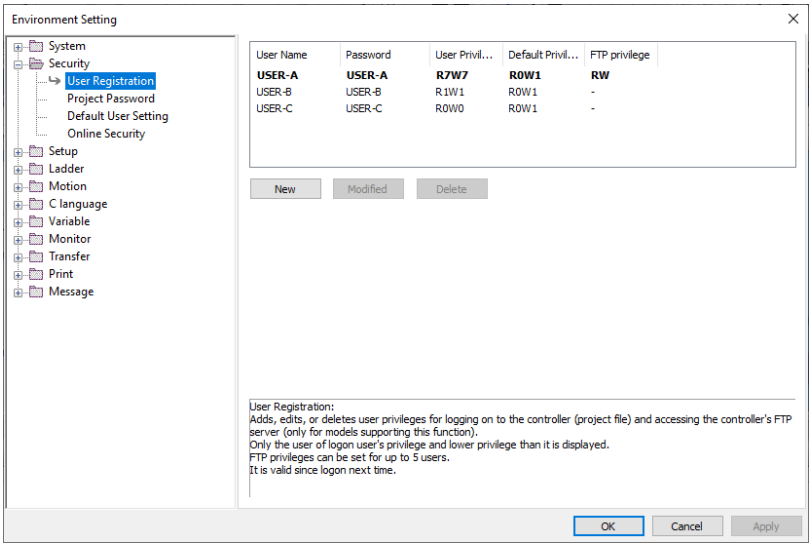
The default settings for YMW7 files that are created on MPE720 version 7 are given in the following table.

Default Settings

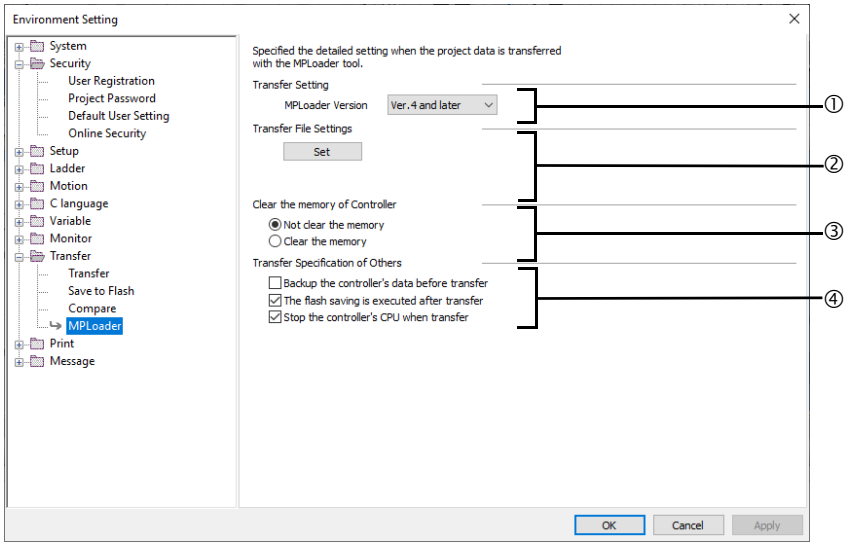
MPLoader Version	Ver. 4 and later (This setting cannot be changed.)
Transfer File Settings	System Configuration, Programs, Registers, and Comments
Write the parameter into the SERVOPACK	Not written.
Clear the Memory of Controller	Not clear the memory
Transfer Specifications of Others	The flash saving is executed after transfer
	Stop the controller's CPU when transfer

Use the following procedure to change the transfer settings from the default settings.

1. Start MPE720 version 7.
2. Open the YMW7 file to transfer.
3. Select ***File*** – ***Environment Setting*** from the menu bar.
   The Environment Setting Window is displayed.



4. Select **MPLoader** under **Transfer** in the left pane.



①Transfer Setting

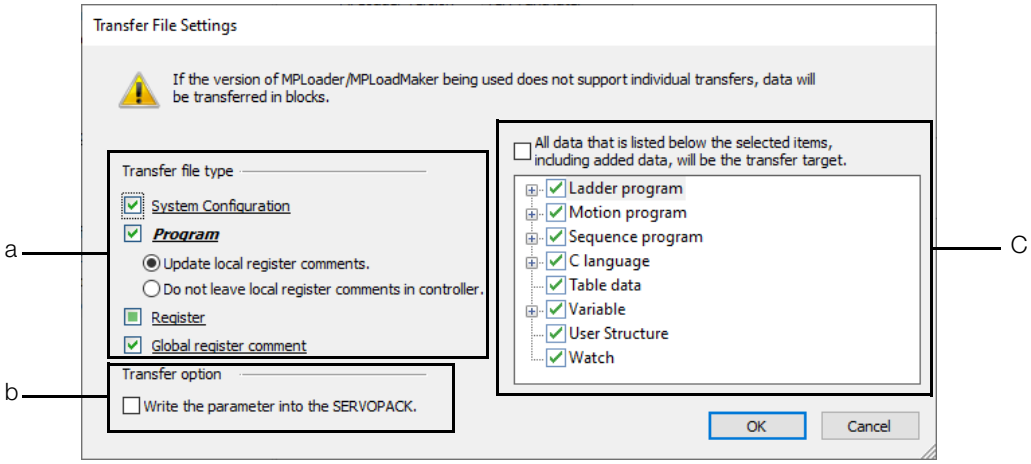
Only **Ver. 4 or later** can be selected to transfer a YMW7 file.

Note: Only **Ver. 3.1 or earlier** can be selected to transfer a YMW file.

②Transfer File Settings

You specifically set the files to transfer.

Click the **Set** Button to display the Transfer File Settings Window.



a: Transfer File Type Area

The items for which the check boxes are selected are transferred to the Controller.

b: Transfer Option Area

Select this check box to write the parameters to the connected SERVOPACK.

c: Transfer Data Area

This area shows the data that is selected for transfer.

Select the items to transfer with the check boxes that are displayed in the tree hierarchy. You can select the **All data that is listed below the selected items, including added data, will be the transfer target** Check Box to transfer all of the items below any selected item.

Important

1. If you select the **All data that is listed below the selected items, including added data, will be the transfer target** Check Box, you will no longer be able to clear selections of items below higher items that are selected.
2. You must select the **All data that is listed below the selected items, including added data, will be the transfer target** Check Box to transfer any items that are added after the transfer settings were made.
3. Any items that are deleted after the transfer settings are made are not transferred.

③Clear the Memory of Controller
Not clear the memory Option: The transferred data is written to RAM in the Controller.
Clear the memory Option: The RAM in the Controller is cleared before executing the automatic transfer.

④Transfer Specification of Others
Backup the controller's data before transfer Check Box: This check box cannot be selected for the MPLoad Maker. It can be selected only for the MPLoader.
The flash saving is executed after transfer Check Box: The data is saved to flash memory after it is transferred.
Stop the controller's CPU when transfer Check Box: The CPU Module of the Controller is stopped during the transfer.

5. Make the required settings.

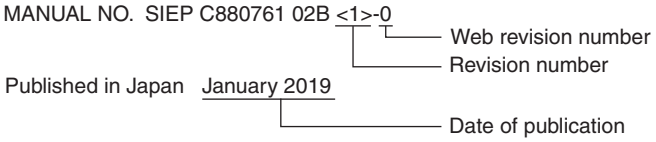
6. Click the **OK** Button.
This completes the setting procedure for the environment settings.
Note: Click the **Apply** Button to continue making the environment settings. The settings are enabled.

7. Select ***File*** – ***Save Project*** or ***File*** – ***Save Project File As*** from the menu bar.
The transfer settings are saved.

This completes the transfer settings.

Revision History

The date of publication, revision number, and web revision number are given at the bottom right of the back cover. Refer to the following example.



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			Back cover	Revision: Address
September 2022	<1>	1	Preface	Partly revised
			Back cover	Revision: Address
January 2019		0	Front cover	Revision: Format
			All chapters	Partly revised
			Chapter 1, Chapter3	Addition: Information on PCI Express Communications
			Back cover	Revision: Format, Address
June 2012	–	–	–	First edition

Auto Transfer File Creation Tool

MPLoad Maker Version 4
USER'S MANUAL

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