
MORI-SERVER INSTRUCTION MANUAL

Applicable Model

MORI-SERVER Specification

Applicable NC Unit

F16i Series (MSC/MSX Series)	F31i Series (MSC/MSX Series)	M65 Series (MSX Series)
F18i Series (MSC/MSX Series)	F32i Series (MSC/MSX Series)	M720BM (MSX Series)
F21i Series (MSC/MSX Series)		M730BM (MSX Series)
F0i Series (MSC/MSX Series)		M750BM (MSX Series)
SEIKI-SEICOS Σ 21L/ Σ 16M/ Σ 18M/ Σ 16T/ Σ 18T		

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Keep the manuals carefully so that they will not be lost.

MORI SEIKI
THE MACHINE TOOL COMPANY



IM-MORISERVER-G0EN
2012.04.M

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Instruction Manual

- The instruction manual in PDF format is included in the installation CD.

Data which has been input or generated by this software can be rendered unusable due to hard disk failure.

Any important information you have entered or created should always be saved to avoid loss of information.

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SIGNAL WORD DEFINITION

PREFACE

A: MORI-SERVER

B: MORI-SERVER (DSN)

C: TROUBLESHOOTING

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SIGNAL WORD DEFINITION

A variety of symbols are used to indicate different types of warning information and advice.

Learn the meanings of these symbols and carefully read the explanation to ensure safe operation while using this manual.

<Symbols related with warning>

The warning information is classified into three categories, DANGER, WARNING, and CAUTION. The following symbols are used to indicate the level of danger.



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

The information described in the **DANGER** frame must be strictly observed.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

The information described in the **WARNING** frame must be strictly observed.



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or damages to the machine.

The information described following the caution symbol must be strictly observed.

<Other symbols>



Indicates the items that must be taken into consideration.



Indicates useful guidance relating to operations.



Indicates the page number or manual to be referred to.

The number in () indicates the section number.

PREFACE

This manual gives you the information you need to operate the MORI-SERVER or MORI-SERVER (DSN) software. The information explained in each chapter is briefly described below.

A: MORI-SERVER

This chapter describes the procedure for setups, settings and operations of the MORI-SERVER.

B: MORI-SERVER (DSN)

This chapter describes the procedure for setups, settings and operations of the MORI-SERVER (DSN).

C: TROUBLESHOOTING

This chapter describes the points to be checked before making an inquiry if you have failed in telecommunications with the MORI-SERVER or MORI-SERVER (DSN).

CHAPTER A

MORI-SERVER

This chapter describes the procedure for setups, settings and operations of the MORI-SERVER.

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1 SETUP

The method for installing MORI-SERVER is described below.

1-1 Installation

1-1-1 Operating Environment

The following operating environment is required to operate the MORI-SERVER.

Hardware and Software	Requirements
OS	<ul style="list-style-type: none">• Windows 2000 Professional (Service Pack 4 or above)• Windows 2000 Server (Service Pack 4 or above)• Windows XP Professional (Service Pack 2)• Windows Vista Home Premium/Business/Ultimate• Windows 7 Home Premium/Professional/Ultimate <Any operating system from the above>
CPU	Pentium III 500 MHz or faster processor
Memory	64 MB or more
Network	10/100/1000BASE-T Ethernet
Monitor	XGA or above



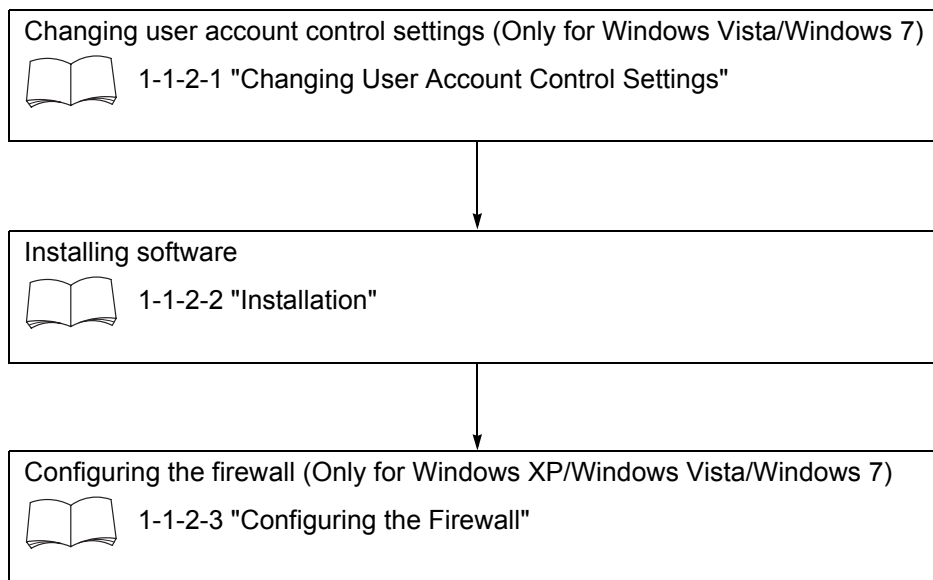
When MORI-SERVER runs on Windows Vista or Windows 7, communication with SEICOS is impossible.

1-1-2 Setting Up MORI-SERVER

The setup procedure for MORI-SERVER differs according to the type of operating system on the PC in which MORI-SERVER is to be installed.



When installing the MORI-SERVER software, log on to the Windows with an account that has administrator privileges.



1-1-2-1 Changing User Account Control Settings

Before starting the installation procedure, turn off the User Account Control (UAC) by following the procedure below.

<Windows Vista>

- 1) Log in to Windows as an account with administrative rights.
- 2) From the start menu, open "Control Panel" - "User Accounts" - "Turn User Account Control On or Off".
- 3) When the User Account Control dialog is displayed, click the [Continue] button.
- 4) When the Turn User Account Control On or Off screen is displayed, uncheck "Use User Account Control (UAC) to help protect your computer".
- 5) Click the [OK] button and restart Windows.



Following the completion of installation, check the box again in 4) above to enable User Account Control.

<Windows 7>

- 1) Log in to Windows as an account with administrative rights.
- 2) From the start menu, select "Control Panel" - "All Control Panel Items" - "User Accounts".
- 3) Click "Change User Account Control Settings" in the Change User Account Control dialog.
- 4) Move the slide bar to the bottom to set "Never notify".
- 5) Click the [OK] button and restart Windows.



Following the completion of installation, move the slide bar back in 4) above to the initial position to enable the user account control.

1-1-2-2 Installation

Follow the procedure below to install MORI-SERVER and MORI-SERVER (DSN).

- 1) Insert the MORI-SERVER installation CD into the CD drive.
- 2) Run \MORI-SERVER\Setup.exe.
- 3) When the InstallShield Wizard starts, select the preferred language to be used during installation, and click the [Next] button.

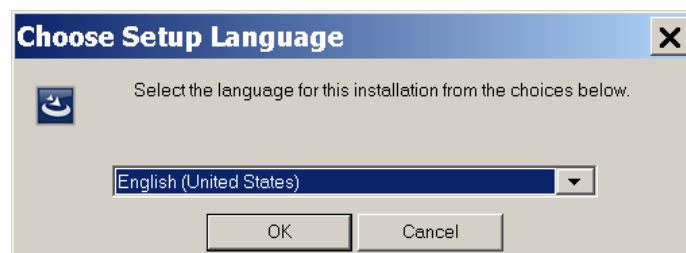


Fig. A-1

- 4) When the "Welcome to the InstallShield Wizard for MORI-SERVER" screen is displayed, click the [Next] button.



Fig. A-2

- 5) Select the folder where the software is to be installed, and click the [Next] button.
The default installation folder is "C:\MORISEIKI\".



To change the installation folder, click the [Change] button, select the folder and click the [Next] button.



When the operating system is Windows Vista or Windows 7, do not specify an installation folder under C:\Program Files. If the installation folder is created under Program Files, MORI-SERVER will not run correctly.

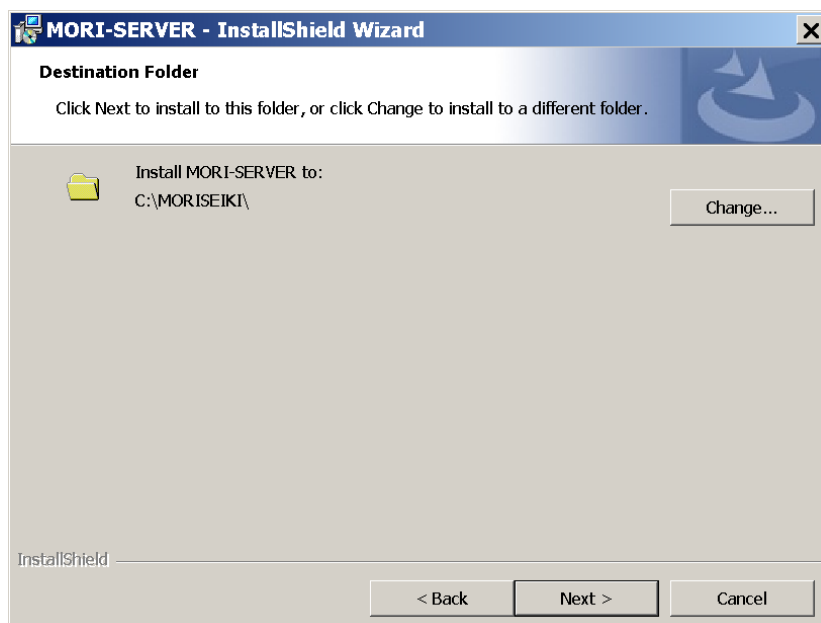


Fig. A-3

- 6) Click the [Install] button to start the installation process.

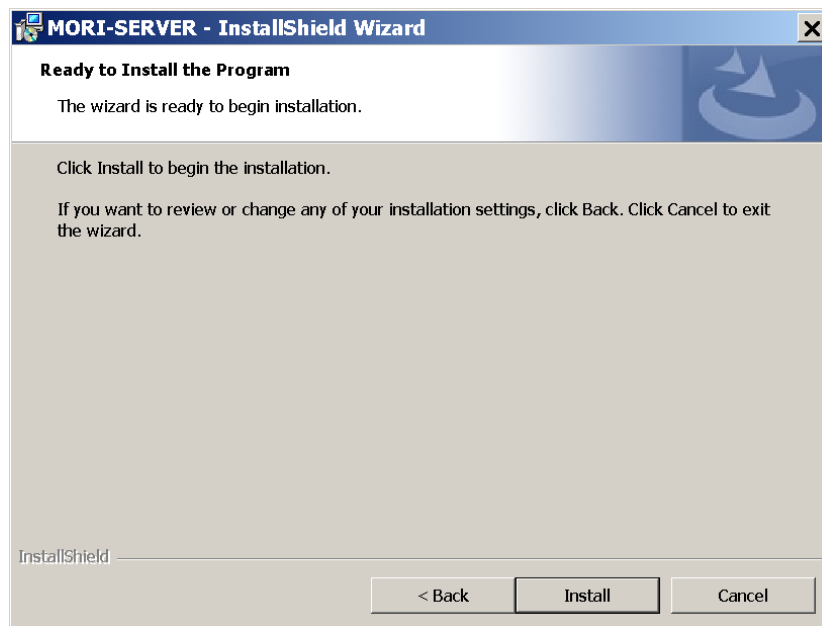


Fig. A-4

- 7) On completion of the installation, click the [Finish] button.



Fig. A-5

This completes the installation procedure for MORI-SERVER and MORI-SERVER (DSN).

1-1-2-3 Configuring the Firewall

Follow the procedure below to change the settings of the Windows Firewall.

First, make the settings to allow MORI-SERVER and MORI-SERVER (DSN) to communicate through the Windows Firewall.

<Windows XP>

1) Open the "Control Panel" from the "Start" menu.

2) Open "Windows Firewall".



If the control panel is shown in the "Category View", click "Security Center" and then click the "Windows Firewall" icon.

3) If "Don't allow exceptions" is checked in the "General" tab window, remove the check mark.

4) Click the "Exceptions" tab.

5) Click the [Add Program] button.

6) Select MORI-SERVER.exe and click the [OK] button.

7) Add MORI-DSN.exe following steps 5) to 6).



If you have run MORI-DSN even once before configuration of the firewall, the MORI-DSN main module may be already added to the program list. In this case, the step 7) is not required, and MORI-DSN.exe appears as MORI-DSN main module in the program list.

8) Confirm that MORI-SERVER.exe and MORI-DSN.exe (MORI-DSN main module) are checked in the Program or service list box on the "Exception" tab, and click the [OK] button.

<Windows Vista>

1) Open the "Control Panel" from the "Start" menu.

2) Open "Security Center" - "Windows Firewall".

3) Open "Allow a program through Windows Firewall".

4) Select the "Exceptions" tab on the Windows Firewall Settings screen.

5) Click the [Add Program] button.

6) Select MORI-SERVER.exe and click the [OK] button.

7) Add MORI-DSN.exe following steps 5) to 6).



If you have run MORI-DSN even once before configuration of the firewall, the MORI-DSN main module may be already added to the program list. In this case, the step 7) is not required, and MORI-DSN.exe appears as MORI-DSN main module in the program list.

8) Confirm that MORI-SERVER.exe and MORI-DSN.exe (MORI-DSN main module) are checked in the "Program or port" list box on the "Exception" tab, and click the [OK] button.



For the procedure for changing the configuration for security other than Windows firewall, refer to the operation manual for the software.

<Windows 7>

- 1) Select "Control Panel" - "All Control Panel Items" - "Windows Firewall" from the "Start" menu.
- 2) Click "Allow a program or a feature through Windows Firewall".
- 3) Click the [Allow another program...] button.
- 4) Select MORI-SERVRE.exe from the list, and click the [Add] button.
- 5) Add MORI-DSN.exe following steps 3) to 4).



If you have run MORI-DSN even once before configuration of the firewall, the MORI-DSN main module may be already added to the program list. In this case, the step 5) is not required, and MORI-DSN.exe appears as MORI-DSN main module in the program list.

- 6) Confirm that MORI-SERVER.exe and MORI-DSN.exe (MORI-DSN main module) are checked for the active profile.
- 7) Click the [OK] button.

Next, make the settings to allow ICMP communication through Windows Firewall.

<Windows Vista/Windows 7>

- 1) For Windows Vista, open "Control Panel" - "System and Maintenance" - "Administrative Tools" - "Windows Firewall with Advanced Security" from the "Start" menu.
For Windows 7, open "Control Panel" - "All Control Panel Items" - "Windows Firewall" from the "Start" menu, and select "Advanced settings".
- 2) Select "Monitoring", and confirm an active profile among "Domain Profile", "Private Profile" and "Public Profile".
- 3) Click "Inbound Rules", and then click "New Rule". The "New Inbound Rule Wizard" starts.
- 4) In the "Rule Type" step, select "Custom", and click the [Next] button.
- 5) In the "Program" step, select "All programs", and click the [Next] button.
- 6) In the "Protocol and Ports" step, select "ICMPv4" for the type of the protocol.
- 7) Click the [Customize] button. The "Customize ICMP Settings" dialog is displayed.
- 8) Select "All ICMP types" and click the [OK] button. Then, click the [Next] button.
- 9) In the "Scope" step, select "Any IP address", and click the [Next] button.



If you add the IP addresses of the target machines into the "These IP addresses" field of the remote IP addresses in this step in order to restrict access to MORI-SERVER, this can help increase the security.

- 10) In the "Action" step, select "Allow the connection", and click the [Next] button.
- 11) In the "Profile" step, check that the active profile which is confirmed in step 2) is checked, and click the [Next] button.
- 12) In the "Name" step, enter the name of the new rule, and click the [Finish] button.

This completes the configuration for Windows Firewall.

1-1-3 About MORI-SERVER

You can check the version information of the MORI-SERVER by following the procedure below.

- 1) Select "Help" - "About MORI-SERVER" from the menu.

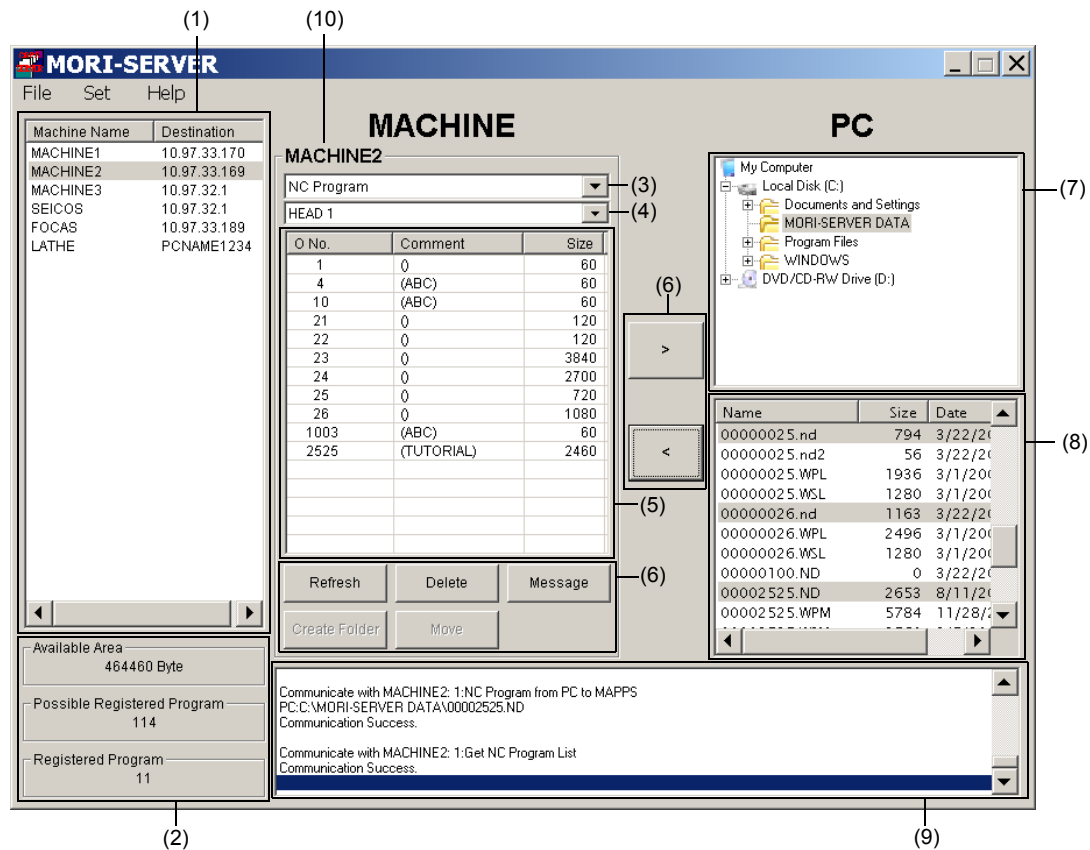
The "About MORI-SERVER" dialog box, where information about version number is displayed, opens.

1-2 Main Screen

The main screen is the first screen displayed after logging in to the MORI-SERVER.



The main screen consists of the following panes.

<MORI-SERVER main screen>



<Displayed items>

Number	Item	Description
(1)	Machine list display area	The list of registered machines is displayed in this area. Double click the registered machine name to retrieve data according to the criteria set in the data selection combo box and the head selection combo box. However, if "System" is selected in the data selection combo box, the data is not retrieved from the machine.
(2)	Machine information display area	Click the [Refresh] button to display information such as the "Available Area", "Possible Registered Program" and the "Registered Program".

Number	Item	Description
(3)	Data selection combo box	<p>Select the type of data from among "NC Program", "System", "Conversational Program" and "Card DNC".</p> <p>The type of data available in this combo box depends on the communication target, such as "MAPPS", "MSC-500/700" or "SEICOS Σ".</p> <p> The last-used type of data is automatically selected at the start-up of the MORI-SERVER.</p>
(4)	Head selection combo box	<p>Select whether the target machine has one head or two heads.</p> <p>This combo box is available when "NC Program" or "System" is selected in the data selection combo box.</p>
(5)	Machine window	This pane shows either the NC program lists, the conversational program lists, or the file lists stored in the target machine according to the criteria set in the data selection combo box and the head selection combo box.
(6)	Communication command button	Clicking this button initiates communication with the target machine.
(7)	Folder tree display area	This area shows the folder tree of the PC that the MORI-SERVER runs on.
(8)	File list display area	<p>This area shows the file list in the folder selected in the folder tree display area.</p> <p>The displayed information depends on the option selected in the data selection combo box.</p> <ul style="list-style-type: none"> When "NC Program", "System", or "Card DNC/ESPRIT" is selected: "Name" (file name), "Size" and "Date" are displayed. When "Conversational Program" is selected: The "O No.", "Comment", and "Date" of the process file are displayed for programs with a process file and a geometrical shape file. <p>An asterisk ("*") is appended at the head of a MAPPS conversational program.</p> <p> Clicking a title sorts the data in the order determined by the clicked title.</p>
(9)	Message display area	Messages, such as a transmission result notification, are displayed in this area.
(10)	Machine name display area	This area shows the machine name currently selected in the machine list display area.

1-3 Configuration Settings

1-3-1 Initial Setting of the Communication Module

You need to complete initial setting of the communication module before using MORI-SERVER. There are three components to this: 1. Setting the communication parameters, 2. Setting log output, 3. Setting the data format. Make these settings by following the procedure below.

1-3-1-1 Starting the MORI-SERVER Utility

To perform initial setting of the communication module, first start the MORI-SERVER utility, then make the individual settings.

- 1) Start the Utility for MORI-SERVER using one of the following methods.
 - a. Select "Set" - "Run REGTOOL" from the menu.
 - b. Right-click on the machine list display area and select "Run REGTOOL" from the displayed menu.
- 2) To set the communications parameters, click the [COM SET] button. To set log output click the [LOG SET] button. To set the data format click the [Data format setting] button. The appropriate setting screen will open in each case.

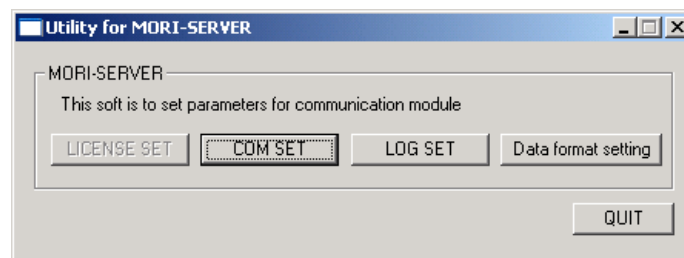



Fig. A-6

- 3) To quit the MORI-SERVER utility, click the [QUIT] button or the  button at the top right of the "Utility for MORI-SERVER" window.

1-3-1-2 Setting Communications Parameters

This section explains how to make the settings relating to MORI-SERVER communications (port number and so on).

- 1) Start MORI-SERVER utilities by following the procedure in 1-3-1-1 "Starting the MORI-SERVER Utility" (page 27), then click the [COM SET] button in the "Utility for MORI-SERVER" dialog box.

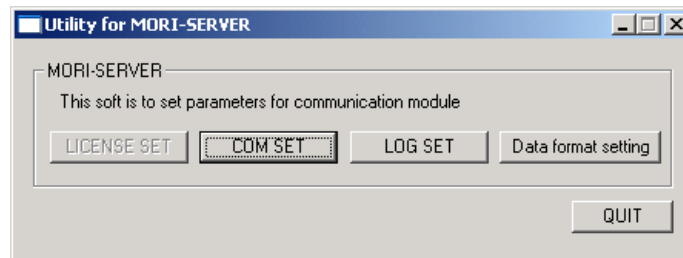


Fig. A-7

The "COM SET" dialog box (Fig. A-8), will be displayed.

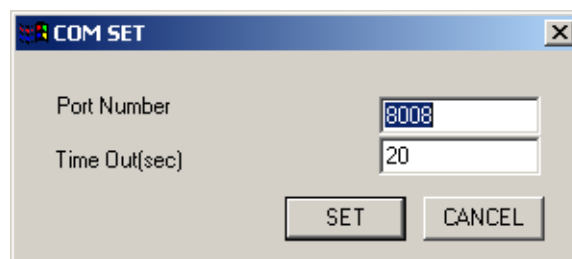


Fig. A-8

- 2) Enter the port number to be used for communications in the "Port Number" textbox (Fig. A-8).



1. This parameter setting can only be changed by users with Administrator rights.
2. Normally, the default setting "8008" is used. Change the setting of this parameter only when the "8008" port is used by other software.



This parameter setting should only be changed by a person with a good knowledge of the network. If the number of a port that is being used by other software is specified, it may cause problems with the software using that port.



If you change this parameter setting, you must also set the same value for the MAPPS port number set in 1-4-2-3 "MORI-SERVER FUNCTION BASIC SETTING Screen" (page 64). If different port numbers are set for MORI-SERVER and MAPPS, communications cannot be established.

- 3) Set the time period before a time-out error occurs in the "Time Out (sec)" textbox (Fig. A-8).



1. If the time set for this parameter is too short, time out may occur if processing takes some time, so make the setting 20 seconds or longer.
2. The actual time that causes a timeout error may differ from the time period set here.

- 4) When you have finished communications parameter entry, click the [SET] button (see Fig. A-8) to set your entries.

The settings made for the communications parameters will be confirmed and the "COM SET" dialog box will close.



To cancel the setting of the communications parameters, click the [CANCEL] button.

1-3-1-3 Log Output Setting

This section explains the settings for the logs to be output when communications are conducted with MORI-SERVER.

- 1) Start the MORI-SERVER utility as described in 1-3-1-1 "Starting the MORI-SERVER Utility" (page 27), then click the [LOG SET] button in the "Utility for MORI-SERVER" dialog box.

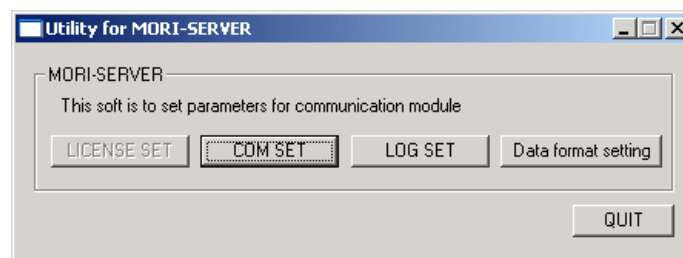


Fig. A-9

The "LOG SET" dialog box, shown in Fig. A-10, will be displayed.

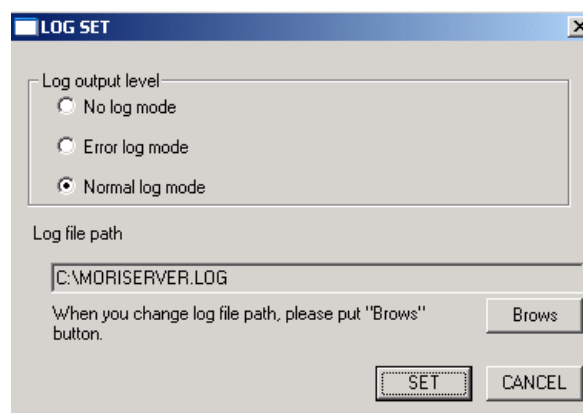


Fig. A-10

- 2) For the "Log output level" in this dialog box, select one of the following three output modes: "No log mode", "Error log mode", or "Normal log mode".

<Log output mode>

- No log mode
No log is output.
- Error log mode
Logs are output only when an error occurs in communication.
- Normal log mode
Logs are output when an error occurs in communication or when communication is successfully completed.

- 3) Check if a file appropriate as the log output destination is displayed in the "Log file path" area.

If there is no problem, proceed to step 4) below.

To change the log output destination file, follow the procedure below.

- a) Click the [Brows] button in the "LOG SET" dialog box (Fig. A-10).
The "Select log file." dialog box, shown in Fig. A-11, will be displayed.
- b) Select the folder to serve as the log output destination.

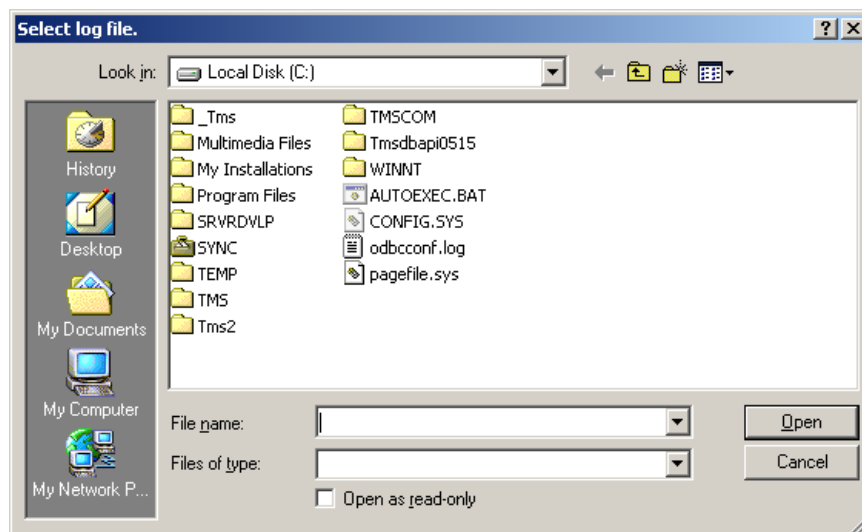


Fig. A-11

- c) Select the file to which logs are to be output.
To create a new file, enter the name of the file in the "File name" textbox.
- d) After selecting the file to which logs are to be output or entering its filename, click the [Open] button (Fig. A-11).



To cancel the change in log output destination, click the [Cancel] button.

The "Select log file." dialog box will close and the full path to the filename selected for the "Log file path" in the "LOG SET" dialog box (Fig. A-10) will be displayed.

- 4) When you have selected the log output level and the log output file, click the [SET] button in the "LOG SET" dialog box (Fig. A-10) to confirm the settings.



To cancel the log output setting, click the [CANCEL] button.

1-3-1-4 Setting the Data Format

This section explains how to make the settings for addition of the %LF code to the head of data being input during communications via MORI-SERVER.

- 1) Start the MORI-SERVER utility as described in 1-3-1-1 "Starting the MORI-SERVER Utility" (page 27), then click the [Data format setting] button shown in Fig. A-12.

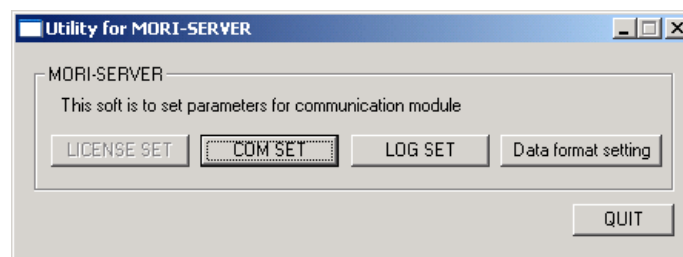


Fig. A-12

The "Data Format Set" dialog box, shown in Fig. A-13, will be displayed.

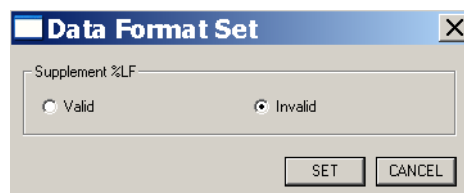


Fig. A-13

- 2) Use the "Supplement %LF" radio button in the "Data Format Set" dialog box (Fig. A-13) to select whether the function for adding the %LF code at the head of a file for input, if there is no such code already, is on or off.

An initial %LF code is required in program files that are input into MAPPS. If the "Valid" option is selected for this function, when an attempt is made to input a file that starts with a 0 number and has no initial %LF code, a %LF code is added so that the file can be input in the required format for communications.

- 3) After making the data format settings, click the [SET] button to confirm them (Fig. A-13). The data format will be set and the "Data Format Set" dialog box will close.



To cancel your data format settings, click the [CANCEL] button.

1-3-2 Language Setting

MORI-SERVER is compatible with a multi-language display function and its display language can be displayed easily.

This section explains the procedure for changing the display language.

- 1) Select the "Language" option from the "Set" menu, as shown in Fig. A-14.

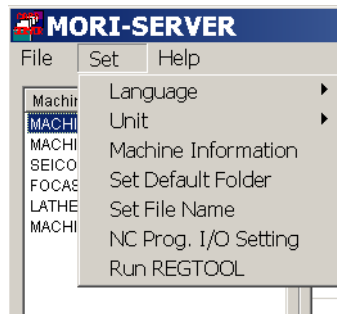


Fig. A-14

The list of registered languages is displayed (Fig. A-15).

- 2) Select the language you want to use by clicking on it.



A check mark is displayed next to the language that is currently selected.

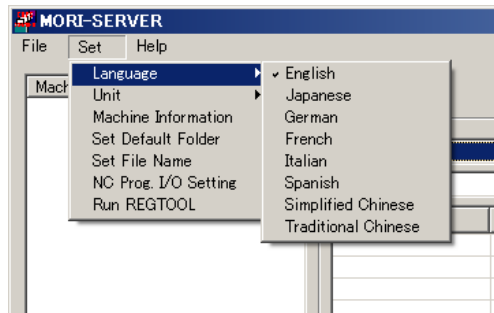


Fig. A-15

The language change confirmation message (Fig. A-16) will be displayed.

- 3) To change the display language, click [Yes] button. To cancel the change of display language, click [No] button.

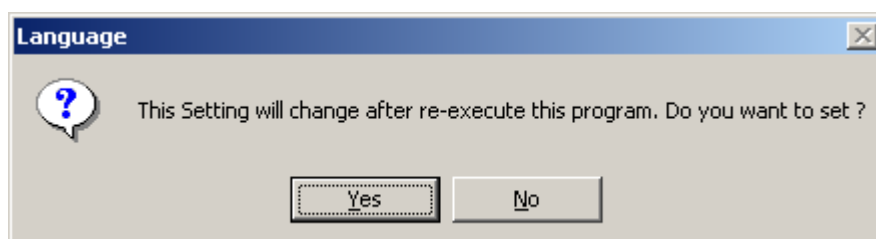


Fig. A-16

- 4) Clicking the [Yes] button closes MORI-SERVER. Restart MORI-SERVER.

The change made to the display language takes effect after restarting MORI-SERVER.

1-3-3 NC Program Data Size Display Unit Setting

MORI-SERVER allows selection of the unit to be used to display the data size of NC programs in the list of NC programs obtained from the communication target machine: the selection is "byte" or "m". This section explains the procedure for setting this display unit.

- 1) Select the "Unit" submenu from the "Set" menu.

The display changes as shown in Fig. A-17.

- 2) Select the unit to be used by clicking it.



A checkmark is displayed next to the unit that is currently selected.

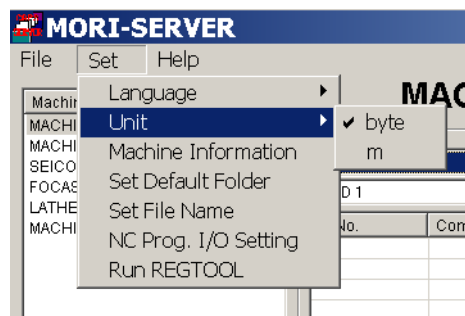


Fig. A-17

This changes the display unit for the data size of NC programs.

The change applies immediately so it is not necessary to restart MORI-SERVER.

1-3-4 Default Folder Settings

You can set the default input/output folder (default folder) of the PC, which is automatically selected as the default folder at the start-up of the MORI-SERVER. This section explains the procedure for setting the default folder.

- 1) Select a folder as the default input/output folder in the folder tree display area.
- 2) Select the "Set Default Folder" option in the "Set" menu (Fig. A-18).

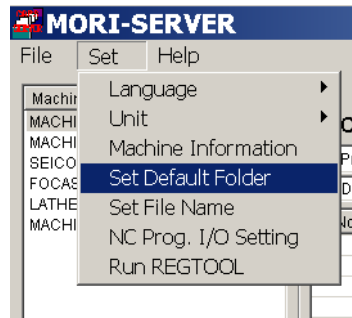


Fig. A-18






This completes the setting of the default folder.






The folder set here will be automatically selected as the default folder next time you start up the MORI-SERVER.


The "Machine Information" dialog box, shown in Fig. A-20, opens.

Fig. A-20

2) Specify the value by referring to the following table.

Number	Item	Description
(1)	Machine Type	Select the machine type from among "CNC Lathe", "Machining Center" and "Multi-Axis Turning Center".
(2)	I/O Device	<p>Select the I/O device from among "MAPPS", "MSC-500/700", "SEICOS SIGMA", "DATA SERVER (16i)", "DATA SERVER (30i)", and "DATA SERVER (M730/M750)".</p> <p> Select "MSC-500/700" for the machine without the MAPPS.</p> <p> When MORI-SERVER runs on Windows Vista/ Windows 7 "SEICOS Σ" cannot be selected for the I/O Device.</p>
(3)	Head Number	<p>Select whether the machine has one head or two heads by clicking the button to the right of the text box.</p> <p> Note that this item cannot be modified when you select "SEICOS SIGMA" or "DATA SERVER" for the I/O device.</p>
(4)	Loader	<p>Select whether the machine has a loader or not.</p> <p> If "WITH LOADER" is selected, "LOADER" is available in the head selection combo box on the main screen.</p> <p> Note that this item cannot be modified when you select "SEICOS SIGMA" or "DATA SERVER" as the I/O device.</p>

Number	Item	Description
(5)	Machine Name	<p>Enter the machine name.</p> <p> 1. You can enter up to 64 characters for the machine name.</p> <p>2. The machine name you register must be unique.</p>
(6)	Destination	<p>Enter the IP address or computer name for the machine.</p> <p> After entering the communication target, press the [Enter] key with the cursor in the text box to check recognition of the entered IP address/computer name at the network level.</p> <p> 1. You can enter up to 15 alphanumeric characters for the IP address.</p> <p>2. You can enter up to 15 alphanumeric characters for the computer name.</p>
(7)	[Com. Test] button	Clicking this button after entering the communication target allows you to check the recognition of the entered IP address/computer name at the network level.
(8)	User ID	<p>Enter the user ID used for logging in to the machine.</p> <p> 1. If user verification is disabled on the machine being registered, there is no need to make an entry here.</p> <p>2. You can enter up to 64 characters for the user ID. If the user ID is entered in lower case letters, they are converted to upper case before registration.</p> <p>3. Note that this item cannot be modified when you select "MSC-500/700", "SEICOS SIGMA" or "DATA SERVER (M730/M750)" as the I/O device.</p>
(9)	Password	<p>Enter the password used for logging in to the machine. The entered password is displayed as asterisks.</p> <p> 1. If user verification is disabled on the machine being registered, there is no need to make an entry here.</p> <p>2. You can enter up to 64 characters for the password.</p> <p>3. Note that this item cannot be modified when you select "MSC-500/700", "SEICOS SIGMA" or "DATA SERVER (M730/M750)" as the I/O device.</p>
(10)	Confirm	Reenter the password.

Number	Item	Description
(11)	Port Number	<p>Enter the port number used for communication.</p> <p> A change is only possible if the communication target device is "MSC-500/700", "DATA SERVER (16i)", or "DATA SERVER (30i)".</p>

3) Click the [OK] button.



To cancel the registration, click the [Cancel] button. This will close the "Machine Information" dialog box.

If you click [OK], the machine registration confirmation message, shown in Fig. A-21, will be displayed.

4) To register the machine information, click the [OK] button.



To cancel the registration, click the [Cancel] button.

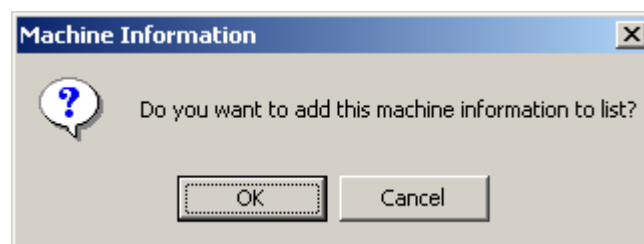


Fig. A-21

The "Machine Information" dialog box, shown in Fig. A-23, opens.

The "Machine Information" dialog box contains the following fields and options:

- Machine Type:**
 - ☒ CNC Lathe
 - ☐ Machining Center
 - ☐ Multi-Axis Turning Center
- I/O Device:**
 - ☒ MAPPS
 - ☐ MSC-500/700
 - ☐ SEICOS SIGMA
 - ☐ DATA SERVER(16i)
 - ☐ DATA SERVER(30i)
 - ☐ DATA SERVER(M730/M750)
- Head Number:**
 - Value: 1
 - ☐ WITH LOADER
 - ☒ WITHOUT LOADER
- Machine Name:** MACHINE1
- Destination:** 10.97.33.170 (with "Com. Test" button)
- User ID:** (empty text box)
- Pass Word:** (empty text box)
- Confirm:** (empty text box)
- Port Number:** 8008
- Buttons:** OK, Cancel

Fig. A-23

- 2) Modify the entry of machine information you want to change by referring to the procedure in 1-3-5-1 "New Machine Registration" (page 35).



When modifying machine information registered with a password, you must re-enter the password in the "Confirm" textbox (which will be blank).

- 3) On completing entry of the modification, as shown in Fig. A-24, click [OK] to register them.



To cancel the modification of the machine information, press the [Cancel] button. The "Machine Information" dialog box will close.


The "Machine Information" dialog box is identical to Fig. A-23, but with the following changes:

- Head Number:** Value is 2.
- Buttons:** OK, Cancel

Fig. A-24

If you click the [OK] button, a message requesting confirmation that you want to change the machine information will be displayed (Fig. A-25).

- 4) Press the [OK] button to confirm the modification of the machine information.

 To cancel the modification of the machine information, press the [Cancel] button.

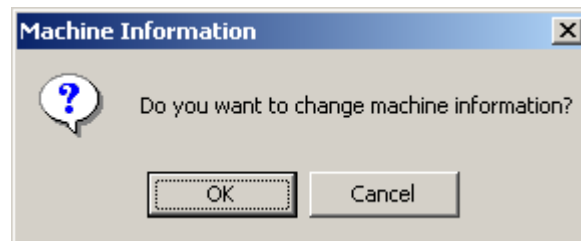


Fig. A-25

1-3-5-3 Deleting Machine Information

This section explains the procedure for deleting registered machine information.

- 1) In the "Machine Information List" window (Fig. A-26), select the machine information to be deleted from the machine information list and click the [Delete] button.

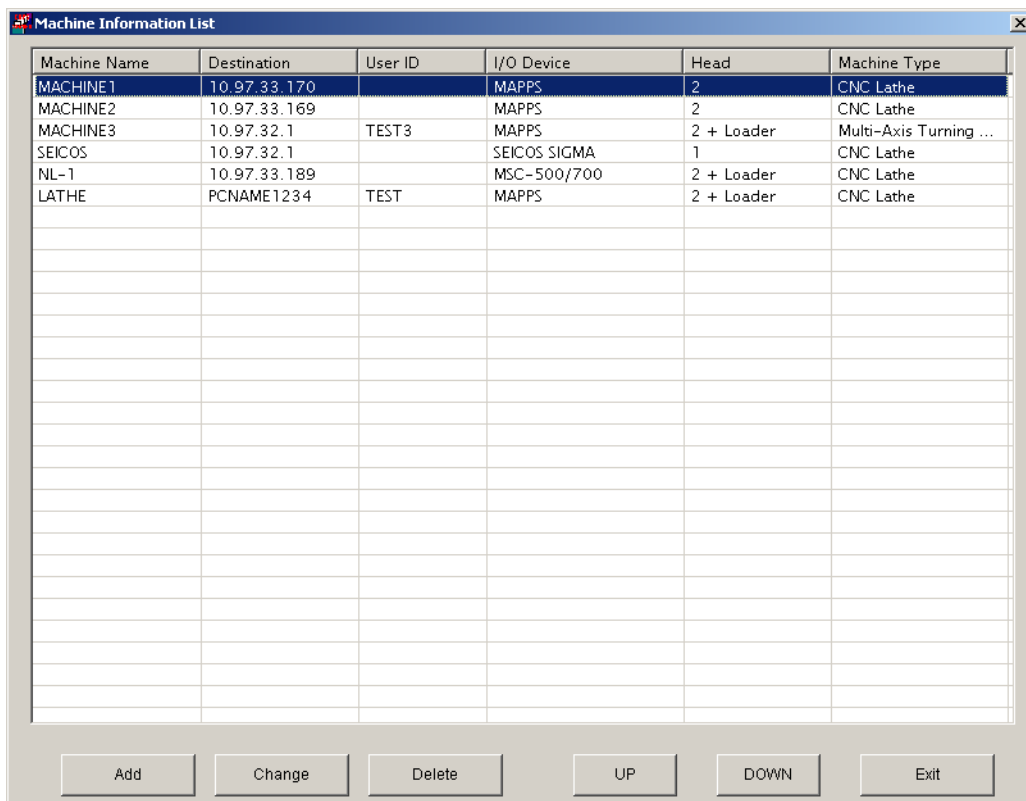


Fig. A-26

A message requesting confirmation that you want to delete the information (Fig. A-27) will be displayed.

- 2) Press the [OK] button to delete the machine information.



To cancel the deletion of the machine information, click the [Cancel] button.

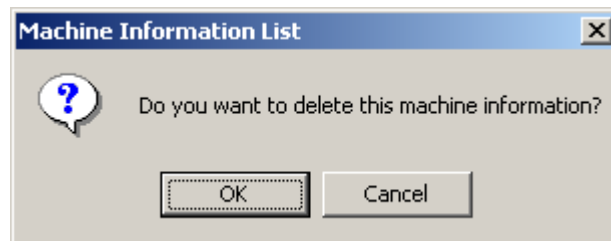




Fig. A-27

1-3-5-4 Sorting Machine Information

- 1) Select the machine to be moved from the Machine Information List, and click the  /  button.

The selected machine is moved in the selected direction.

1-3-6 File Name Auto-Creating Function

When an NC program at the destination machine is output to a PC using MORI-SERVER, you can automatically set the default file name format that comes after the O number of the selected NC program (file name auto-creating function). And you can automatically append an extension name on output to any entered file name (default extension function). This section explains how to enable/disable the default file name format setting function and how to set the default file name format and the default extension.

- 1) Select "Set" - "Set File Name" from the menu. Or, right-click on the machine list display area and select "Set File Name" from the displayed menu.

The "Set File Name Format" dialog box appears (Fig. A-28).

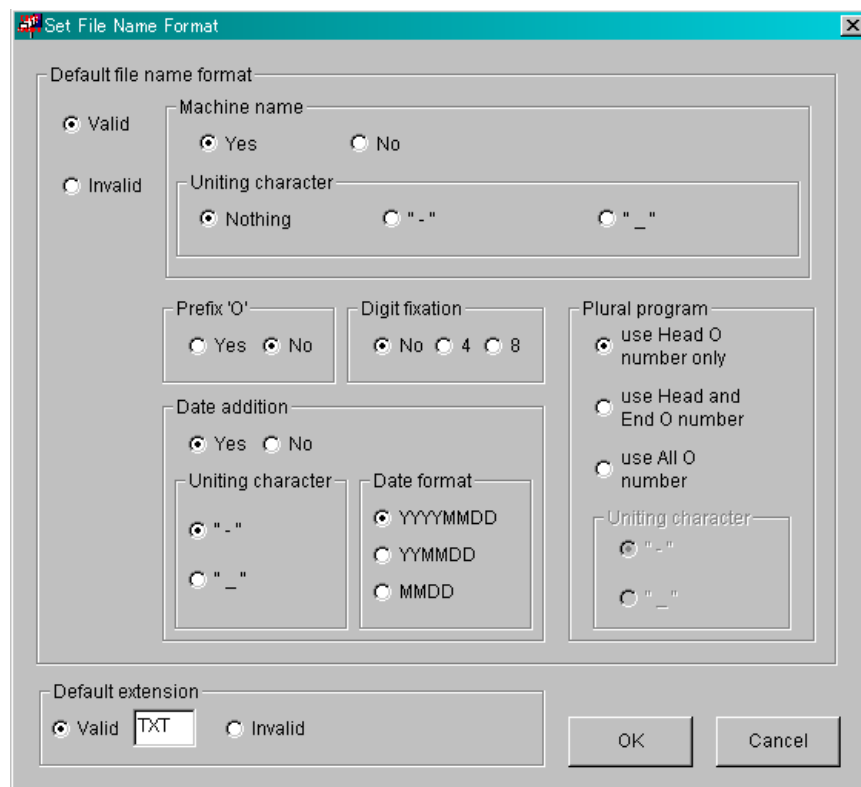




Fig. A-28

- 2) Make the settings by following the explanations in 1-3-6-1 "Default File Name Format Setting" (page 44) and 1-3-6-2 "Default Extension Function" (page 46).
- 3) After making all the settings, register them by clicking [OK] button.

!!!
 To cancel the registration, click the [Cancel] button. The "Set File Name Format" dialog box will close.

If you click [OK] button, a message asking you to confirm the file name setting, shown in Fig. A-29, will be displayed.

- 4) To register the setting, click the [OK] button. The file name will be registered.

!!!
 To cancel the registration, click the [Cancel] button.

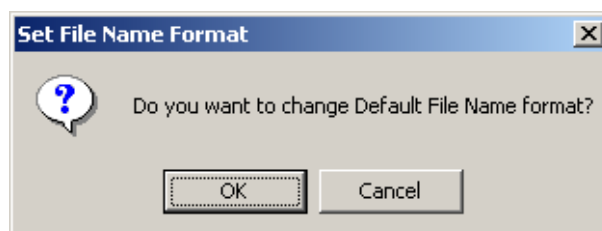


Fig. A-29

1-3-6-1 Default File Name Format Setting

This section explains how to set the default file name format.

- 1) Check the checkbox in the "Set File Name Format" dialog box to enable/disable the file name auto-creating function.



1. When "Invalid" is selected, there is no need to make entries for 2) - 10).
 2. You must enter the file name for output NC program files when "Invalid" is selected.
- 2) With the "Machine name" radio buttons, you can select whether or not the machine name is added to the top of the file name in the default file name format.
If you select "Yes", the machine name is added. If you select "No", no machine name is added.
 - 3) With the "Uniting character" radio buttons, you can select whether "-" (hyphen) or "_" (underscore) is used or not between the machine name and the O number when adding the machine name to the default file name format.
 - 4) With the "Prefix 'O'" radio button, you can select whether or not a 'O' is added before the program number of the NC program in the default file name format.
If you select "Yes", a "O" is added. If you select "No", no "O" is added.
 - 5) With the "Digit fixation" radio buttons, you can select the number of digits for the program number used as the file name.
 - If you select "No" the program number displayed in the program list is used unaltered as the file name.
 - If you select "4", zeroes will be added to program numbers less than 4 digits in length to bring them up to 4 digits.
 - If you select "8", zeroes will be added to program numbers less than 8 digits in length to bring them up to 8 digits.
 - 6) Select the "Yes" or "No" radio button to determine if the output date is added after the O number as the default file name.
If you select "Yes" the date is appended after the O number. The format for the appended date is described below.
If you select "No", you will not be able to select items 7) and 8).
 - 7) With the "Uniting character" radio buttons, select whether, when the date of output is appended following the O number in the default file name format, a hyphen or an underscore is used between the O number and the date.
 - 8) With the "Date format" radio buttons, select the date format, if the date is to be added to the O number for the default file name format.

- 9) With the "Plural program" three radio buttons, select the O number(s) that will be used in the default file name format when multiple NC programs are selected.

- Use Head O number only

The default file name is composed using the program number of the first of the multiple selected programs only.

- Use Head and End O number

The default file name is composed using the program number of the first and the last of the multiple selected programs, linked by the "Uniting character" determined as described in 10) below.

- Use All O number

The default file name is composed using the program numbers of all of the selected programs, linked by the "Uniting character" determined as described in 10) below.

The Prefix 'O' and Digit fixation settings made in 4) and 5) above will continue to apply.

Regarding the Date addition setting, the date will be added once only at the end of the default file name format.

If you select the "use Head O number only" option for "Plural program", there is no need to select a "Uniting character" in step 10) below.

- 10) With the "Uniting character" radio buttons, select whether the individual O numbers are to be linked with hyphens or underscores when multiple program numbers are selected.

1-3-6-2 Default Extension Function

Set the default file extension by following the explanation below.

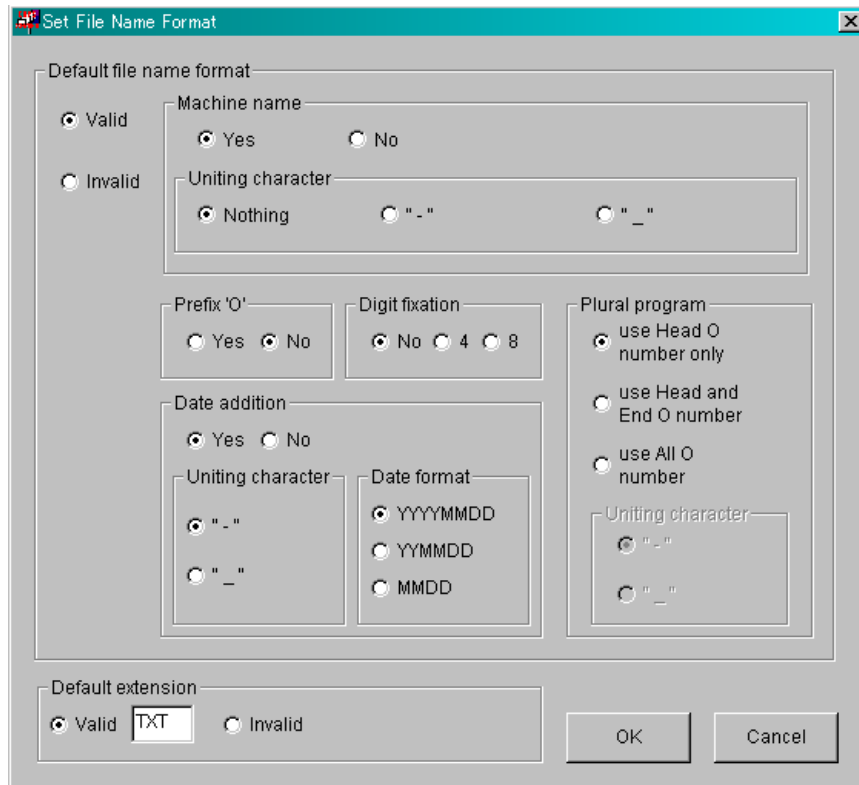


Fig. A-30

1. To enable the default extension function, set the "Valid" radio button at "Default extension". To disable the function, set "Invalid".
2. If you enable the default extension function, specify the file extension to be used by entering three letters of the alphabet in the textbox. However, note that you cannot set the following extensions.

DLL, EXE, SYS, COM, CFG, INI, BAT, BIN, AUX

When the default extension function is enabled, all NC programs are output with the specified file extension.

1-3-7 NC Program Input/Output Settings

You can make settings for NC program input/output using the MORI-SERVER. This section explains the procedure for setting NC program input/output.

- 1) Select "Set" - "NC Prog. I/O Setting" from the menu. Or, right-click on the machine list display area and select "NC Prog. I/O Setting" from the displayed menu.
- 2) When the NC Prog. I/O Setting screen is displayed, set the items by referring to the following table.

NC Prog. I/O Setting

(1) ☒ Output all the selected programs into one file(Except for DATA SERVER)

(2) ☒ Change line feed code to CR-LF(Except for (DATA SERVER(M730/M750)))

(3) ☐ Dialog to input file name is NOT displayed

(4) ☐ Dialog to confirm sending is NOT displayed

(5) ☐ Comment and size are not displayed(SEICOS only)

(6) ☐ Insert % into every program(Except for DATA SERVER)

(7) ☐ Data after % is NOT sent.(Except for DATA SERVER)



(8) ☐ Extension of file to send by ASCII mode.(DATA SERVER(30i) only)

TXT PRG

Add Delete

OK Cancel

Number	Item	Check	Description
(1)	Output all the selected programs into one file (Except for DATA SERVER)	ON	When you select multiple NC programs, all the programs are output to a single file.
		OFF	When you select multiple NC programs, all the programs are output to different files.
(2)	Change line feed code to CR-LF (Except for DATA SERVER (M730/M750))	ON	Line feed codes are converted into CR-LF.
		OFF	EOBs are output according to the NC settings.
(3)	Dialog to input file name is NOT displayed	ON	If this item is checked and "file name auto-creating function" is valid, no file name input dialog box is displayed upon output from the target machine to the MORI-SERVER. The file name is automatically created according to the settings in the "file name auto-creating function".
		OFF	If this item is not checked and "file name auto-creating function" is invalid, a file name must be input when outputting from the target machine to the MORI-SERVER.

Number	Item	Check	Description
(4)	Dialog to confirm sending is NOT displayed	ON	When inputting from the MORI-SERVER to the target machine, a sending confirmation message is not displayed.
		OFF	When inputting from the MORI-SERVER to the target machine, a sending confirmation message is displayed.
(5)	Comment and size are not displayed* (SEICOS only)	ON	When the NC program list of the SEICOS is retrieved, the program size and comments are excluded from the list.  Checking this item can reduce the transmission time for retrieving the NC program list.
		OFF	When the NC program list of the SEICOS is retrieved, the program size and comments are included in the list.
(6)	Insert % info every program (Except for DATA SERVER)	ON	When multiple NC programs are output, a "%" block is inserted for each O number.
		OFF	When multiple NC programs are output, no delimiting character is inserted for each O number.
(7)	Data after % is NOT sent. (Except for DATA SERVER)	ON	When a file is output, all of the file data is sent.
		OFF	When a file is output, if the character "%" is encountered within the data, the data from that character onward are not sent.
(8)	Extension of file to send by ASCII mode (DATA SERVER (30i) only)	—	Register the extensions of the files that are to be used as text, such as NC programs. Files with the registered extensions are sent in ASCII mode. Click the [Add] button after entering the extensions. To delete registered extensions, select the relevant extensions and click the [Delete] button.  Unregistered extensions are sent in the binary mode.



* When MORI-SERVER runs on Windows Vista or Windows 7, this setting item is not available.

3) Click the [OK] button.

1-4 Setting at Machines

1-4-1 Setting at MAPPS

To enable MORI-SERVER to communicate with a machine, it is necessary to set the MORI-SERVER parameters of the MAPPS system at the machine correctly.

1-4-1-1 Setting TCP/IP Parameters

Input "2" in the SELECT screen to display the TCP/IP PARAMETER screen.

1. IP ADDRESS (Mandatory)
Set the IP address of the machine.
2. NET MASK (Mandatory)
Set the subnet mask for the machine.
3. ROUTER IP ADDRESS
Set the IP address of the default gateway for the machine.
4. DOMAIN NAME
Set the domain name for the machine.
5. NAME SERVER IP ADDRESS
Set the IP address of the DNS (Domain Name Server) for the machine.

1-4-1-2 MORI-SERVER PARAMETER Screen

The MORI-SERVER PARAMETER screen is used to input information necessary for MORI-SERVER to communicate with the machine.

The MORI-SERVER PARAMETER screen comprises two pages, the basic screen and the detail screen.

This section explains the items displayed in MORI-SERVER PARAMETER screen.



For the procedure to set MORI-SERVER parameters, refer to page 54 (1-4-1-3).

<MORI-SERVER PARAMETER (BASIC) screen>

EDIT *** *** *** 0.00inch/min 0.00min-1 07500 N00002

MORI-SERVER PARAMETER(BASIC) 19:33:07

MAIN FUNCTION (0:Invalid 1:Valid) 1 (1)

PORT NUMBER 8008 (2)

TIME OUT(SEC.) 20 (3)

IP ADDRESS CHECK (0:Invalid 1:Valid) 1 (4)

IP ADDRESS 1 192.168.1.1 (5)

IP ADDRESS 2 192.168.1.1 (6)

LOGIN CHECK (0:Invalid 1:Valid) 1 (7)

USER 1 (0:Invalid 1:Valid) 0 (8)

USER ID (9)

PASSWORD (10)

User 2 (0:Invalid 1:Valid) 0 (11)



USER ID (12)





PASSWORD (13)

< BASIC DETAIL > SET CANCEL >

<Display items>

Number	Item	Explanation
(1)	MAIN FUNCTION	This item is used to validate/invalidate communication with MORI-SERVER. 0: Invalid 1: Valid When this parameter is set to invalid, any communication from MORI-SERVER will be rejected.

Number	Item	Explanation
(2)	PORT NUMBER	<p>This item is used to input the port number to be used for the communication with MORI-SERVER.</p> <p> 1. Normally, the default setting "8008" is used. Change the setting of this parameter only when the "8008" port is used by other software.</p> <p>2. We strongly recommend that you restrict modification of this parameter only to persons who have sufficient knowledge of the network. If this parameter is changed carelessly to a port used by other software, it may cause problems with the software using this port.</p> <p>3. If the port number is changed, set the same number for the MORI-SERVER port number that is set in CHAPTER A, 1-3-1-2 "Setting Communications Parameters". If different port numbers are set for MORI-SERVER and MAPPS, communication cannot be established.</p> <p>4. It is necessary to restart MAPPS to make the changed setting of this parameter effective.</p>
(3)	TIME OUT	<p>This item is used to input the time period before a time-out error occurs.</p> <p> 1. Input the time period for time-out error in seconds.</p> <p>2. If the set time period for the time-out error is too short, a time-out error may occur while a process that takes time is in progress. In normal operation, set the time period for the time-out error to 20 or more seconds.</p> <p>The actual time that causes a time-out error may differ from the time period set here.</p> <p>3. It is necessary to restart MAPPS to make the changed setting of this parameter effective.</p>
(4)	IP ADDRESS CHECK	<p>This item validates/invalidates the IP address verification function.</p> <p>0: Invalid 1: Valid</p> <p>MAPPS will reject communication from an IP address other than the IP addresses set for "IP ADDRESS 1" or "IP ADDRESS 2" if this item is validated.</p>

Number	Item	Explanation
(5)	IP ADDRESS 1	<p>This item is used to input an IP address to permit communication with the machine.</p> <p> When inputting an IP address, input it with 8-bit delimiters as in "xxx.xxx.xxx.xxx".</p> <p> An asterisk "*" can be used as a wildcard when specifying an IP address.</p>
(6)	IP ADDRESS 2	<p>A wildcard can be specified in a 8-bit unit as in "xxx.xxx.xxx.*".</p> <p>It is not possible to use a wildcard to replace multiple 8-bit delimiters as in "xxx.xxx.*" or to replace digits smaller than a 8-bit unit as in "xxx.xxx.xxx.1*".</p>
(7)	LOGIN CHECK	<p>This item is used to validate/invalidate the login verification function.</p> <p>0: Invalid 1: Valid</p> <p>MAPPS will reject communication if the combination of the user ID and the password sent from MORI-SERVER does not match the combination of user ID and password either for user 1 or user 2 if this item is validated.</p>
(8)	USER 1	<p>This item is used to validate/invalidate the combination of the user ID and the password set for user 1.</p> <p>0: Invalid 1: Valid</p>
(9)	USER ID	This item is used to input the user ID for user 1.
(10)	PASSWORD	<p>This item is used to input the password for user 1.</p> <p> Any letter input in the "PASSWORD" textbox is displayed as an asterisk "*".</p>
(11)	USER 2	<p>This item is used to validate/invalidate the combination of the user ID and the password set for user 2.</p> <p>0: Invalid 1: Valid</p>
(12)	USER ID	This item is used to input the user ID for user 2.
(13)	PASSWORD	<p>This item is used to input the password for user 2.</p> <p> Any letter input in the "PASSWORD" textbox is displayed as an asterisk "*".</p>

<MORI-SERVER PARAMETER (DETAIL) screen>

EDIT *** *** *** 0.00inch/min 07500 N00002
0% 0min-1 19:33:02

MORI-SERVER PARAMETER (DETAIL)

NC PROGRAM

PC->MAPPS

USER 1 USER 2

1 1

MAPPS->PC

USER 1 USER 2

0 0

DELETE NC PROGRAM

0 0

(0:Invalid 1:Valid)

< BASIC DETAIL SET CANCEL >

<Display Items>

Number	Item	Explanation
(1)	NC PROGRAM (PC->MAPPS)	<p>This item is used to validate/invalidate operations to input NC programs from the MORI-SERVER side to the MAPPS side.</p> <p>0: Invalid 1: Valid</p> <p>It is not permissible to input NC programs from the MORI-SERVER side to the MAPPS side if this parameter is invalidated.</p> <p>This setting is made individually for user 1 and user 2.</p>
(2)	NC PROGRAM (MAPPS->PC)	<p>This item is used to validate/invalidate operations to output NC programs from the MAPPS side to the MORI-SERVER side.</p> <p>0: Invalid 1: Valid</p> <p>It is not permissible to output NC programs from the MAPPS side to the MORI-SERVER side if this parameter is invalidated.</p> <p>This setting is made individually for user 1 and user 2.</p>

Number	Item	Explanation
(3)	DELETE NC PROGRAM	<p>This item is used to validate/invalidate operations to delete NC programs on the MAPPS side from the MORI-SERVER side.</p> <p>0: Invalid 1: Valid</p> <p>It is not permissible to delete NC programs in the MAPPS side from the MORI-SERVER side if this parameter is invalidated.</p> <p>This setting is made individually for user 1 and user 2.</p>


1-4-1-3 Setting MORI-SERVER Parameters

This section describes the procedure for setting the MORI-SERVER parameters.



For details on the MORI-SERVER parameters, refer to page 50 (1-4-1-2).

<Operation Procedure>

- 1) Press the function selection key  (SYSTEM) at MAPPS.

The IN/OUT screen is displayed.

- 6) Input settings for the required items.
- 7) Press the **[SET]** soft-key.

The input data is confirmed and the SELECT screen is displayed.



Be sure to press the **[SET]** soft-key before switching to another screen. If the screen is switched without pressing the **[SET]** soft-key, the input data is discarded.



To cancel the MORI-SERVER parameter setting, press the **[CANCEL]** soft-key.

When the **[CANCEL]** soft-key is pressed, the input data is discarded and the SELECT screen is displayed.

- 8) Press the **[DETAIL]** soft-key.
- 9) The MORI-SERVER PARAMETER (DETAIL) screen is displayed.
- 10) Input settings for the required items.
- 11) Press the **[SET]** soft-key.

The input data is confirmed and the SELECT screen is displayed.



Be sure to press the **[SET]** soft-key before switching to another screen. If the screen is switched without pressing the **[SET]** soft-key, the input data is discarded.



To cancel the MORI-SERVER parameter setting, press the **[CANCEL]** soft-key.


When the **[CANCEL]** soft-key is pressed, the input data is discarded and the SELECT screen is displayed.

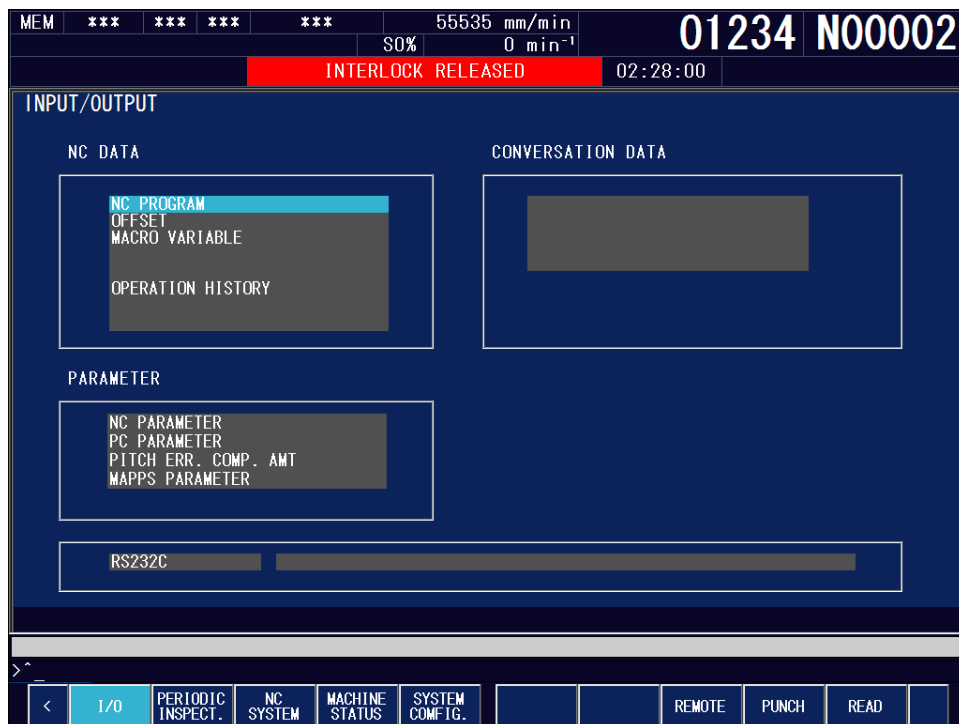
This completes the setting of MORI-SERVER parameters.

1-4-2 Setting at MAPPS II/III/IV

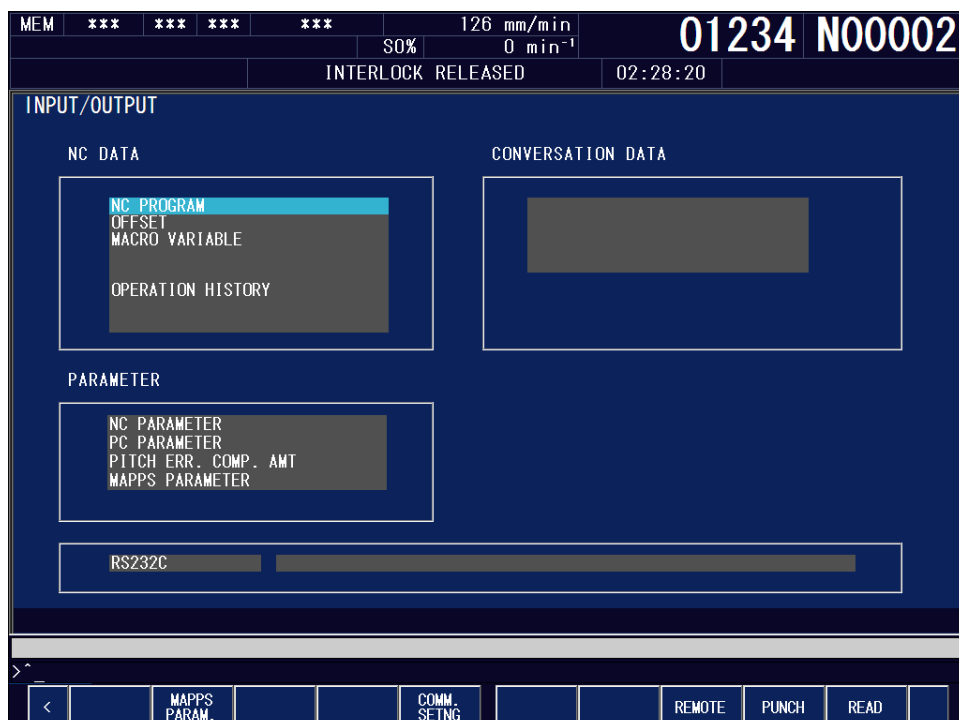
1-4-2-1 Setting TCP/IP Parameters

Make the network configuration for MAPPS II/III/IV on the NETWORK SETTING screen. Display the NETWORK SETTING screen by following the procedure below.

- 1) Display the INPUT/OUTPUT screen by pressing the function selection key  (SYSTEM).




- 2) Change the displayed set of soft-keys by pressing the menu selection key [**<**] once.



- 3) Press the **[COMM. SETNG]** soft-key.


The NETWORK SETTING screen is displayed.



- If you enter "1" using the data entry key and press the  (INPUT) key on the NETWORK SETTING screen, the BASIC NETWORK SETTING screen where you can set the IP address of the machine is displayed.




For details of the setting items, see 1-4-2-1 "Setting TCP/IP Parameters" (page 57).

- If you enter "6" using the data entry key and press the  (INPUT) key on the NETWORK SETTING screen, the MORI-NET COMMON SETTING screen is displayed so that you can set the MORI-NET parameters.



For details of the setting items, see MORI-NET Global Edition OPERATION MANUAL.

- If you enter "5" using the data entry key and press the  (INPUT) key on the NETWORK SETTING screen, the MORI-MONITOR SCREEN TRANSIT SETTING screen is displayed you can set the MORI-MONITOR parameters.



For details of the setting items, see MORI-NET Global Edition OPERATION MANUAL.

Set the TCP/IP parameters on the BASIC NETWORK SETTING screen. Set the items by referring to the following table.

MEM *** HEAD1 65535 mm/min 00001 N00000 16:59:37

BASIC NETWORK SETTING

IP Address Setting

DHCP Function

IP Address

SUBNET MASK

Default Gateway

DNS Setting

DNS Service

DNS Server

SHARED FOLDER

THE FILE SHARING IS USED

COMPUTER NAME


WORKGROUP NAME

MAC Address

MAC Address 00-80-17-FC-83-51


> ^

<Setting items>

Item	Description
DHCP FUNCTION	This is the setting for the DHCP function that automatically allocates the IP address.
IP ADDRESS	Set the IP address to be allocated to the machine.
SUBNET MASK	Set the subnet mask at the machine.
DEFAULT GATEWAY	Set the default gateway address.
DNS SERVICE	Set whether or not you use the DNS service. VALID: Select "VALID" if you use the DNS service. INVALID: Select "INVALID" if you do not use the DNS service.
DNS SERVER	Set the IP address of the DNS server. Setting is not possible if your selection for "DNS SERVICE" is "INVALID".
THE FILE SHARING IS USED	This setting is not used with MORI-SERVER. It is not necessary to change the initial setting.
COMPUTER NAME	Set the computer name to be allocated to the machine. To use DHCP, set this computer name for the "Destination" in the "Machine Information" dialog box when registering the machine information with the MORI-SERVER.  For details on modifying the machine information, refer to 1-3-5-2 "Modifying Machine Information" (page 39)

Item	Description
WORKGROUP NAME	This setting is not used with MORI-SERVER. It is not necessary to change the initial setting.
MAC ADDRESS	The MAC address of the machine is displayed. This data cannot be changed.

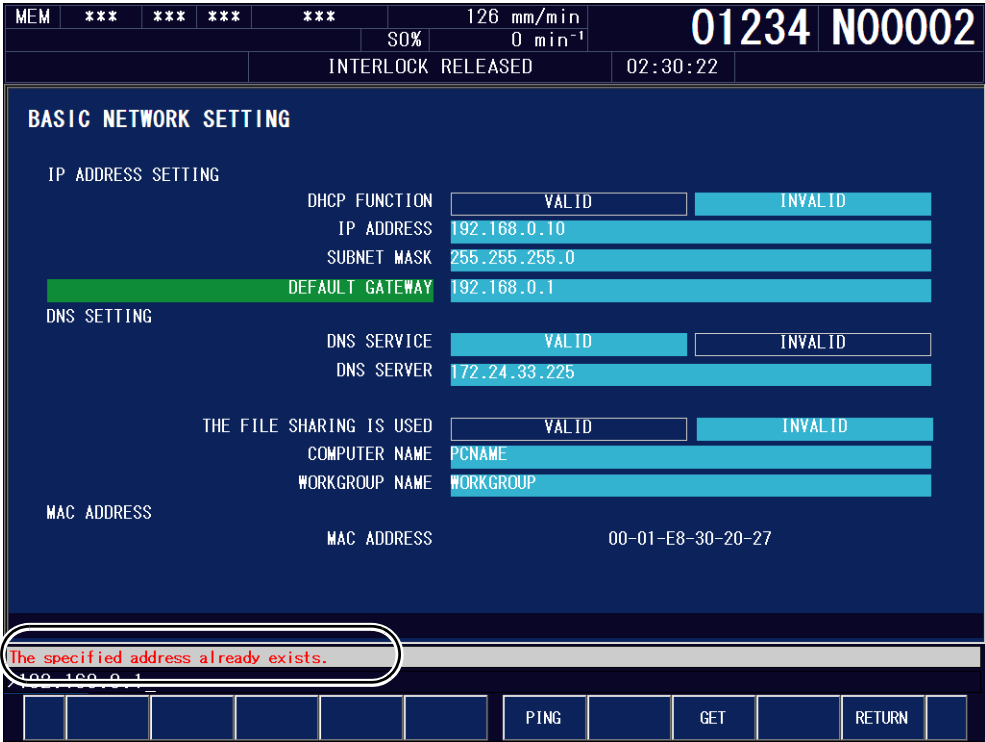
<Soft-keys>

Soft-key No.	Item	Description
F6	PING	 <PING function>
F8	GET	Automatically inputs the setting value of the selected item.
F9	SET	Saves the changes that you have made on this screen.
F10	RETURN	Exits from this setting screen and returns to the BASIC NETWORK SETTING screen.

<PING function>

The PING function is used to confirm that network connection with the specified IP address is established.

If you enter the IP address to confirm network connection and press the **[PING]** soft-key, the screen shows the corresponding message depending on whether or not the network connection is established.



MEM *** *** *** *** 126 mm/min 01234 N00002
 50% 0 min⁻¹
 INTERLOCK RELEASED 02:30:22

BASIC NETWORK SETTING

IP ADDRESS SETTING

DHCP FUNCTION

IP ADDRESS 192.168.0.10

SUBNET MASK 255.255.255.0

DEFAULT GATEWAY 192.168.0.1

DNS SETTING

DNS SERVICE

DNS SERVER 172.24.33.225

THE FILE SHARING IS USED

COMPUTER NAME PCNAME

WORKGROUP NAME WORKGROUP

MAC ADDRESS

MAC ADDRESS 00-01-E8-30-20-27

The specified address already exists.

PING GET RETURN

When the network connection is confirmed

MEM*** **

126 mm/min

01234

N00002

S0%

0 min⁻¹

INTERLOCK RELEASED

02:47:26

BASIC NETWORK SETTING

IP ADDRESS SETTING

DHCP FUNCTION

VALIDINVALID

IP ADDRESS

192.168.0.10

SUBNET MASK

255.255.255.0

DEFAULT GATEWAY

192.168.0.1

DNS SETTING

DNS SERVICE

VALIDINVALID

DNS SERVER

172.24.33.225

THE FILE SHARING IS USED

VALIDINVALID

COMPUTER NAME

PCNAME

WORKGROUP NAME

WORKGROUP

MAC ADDRESS

MAC ADDRESS

00-01-E8-30-20-27

The specified address does not exist.

192.168.0.1^

PING


GET

RETURN

When the network connection is not confirmed

1-4-2-2 MORI-SERVER PARAMETER Screen

Open the MORI-SERVER PARAMETER screen at MAPPS II/III/IV as follows.

- 1) Press the  (SYSTEM) key among the function keys on the MAPPS operation panel.
The screen indicated in Fig. A-31 will be displayed.
- 2) Press the menu switching key [**<**].

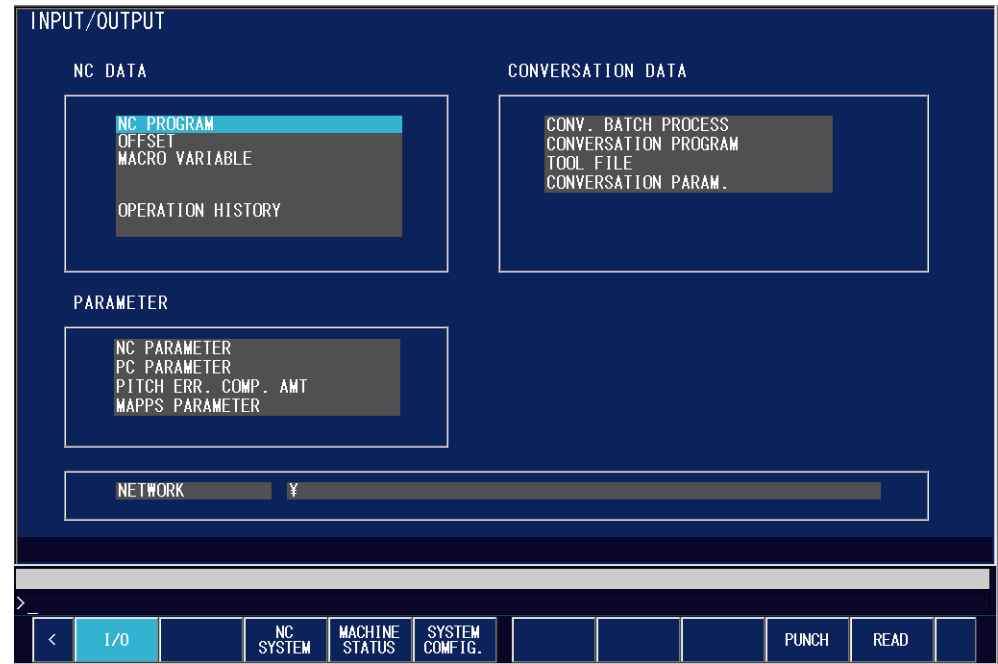


Fig. A-31

The soft-keys will change as indicated in Fig. A-32.

- 3) Press the [**COMM. SETNG**] soft-key.



Fig. A-32

The NETWORK SETTING screen will be displayed (Fig. A-33).

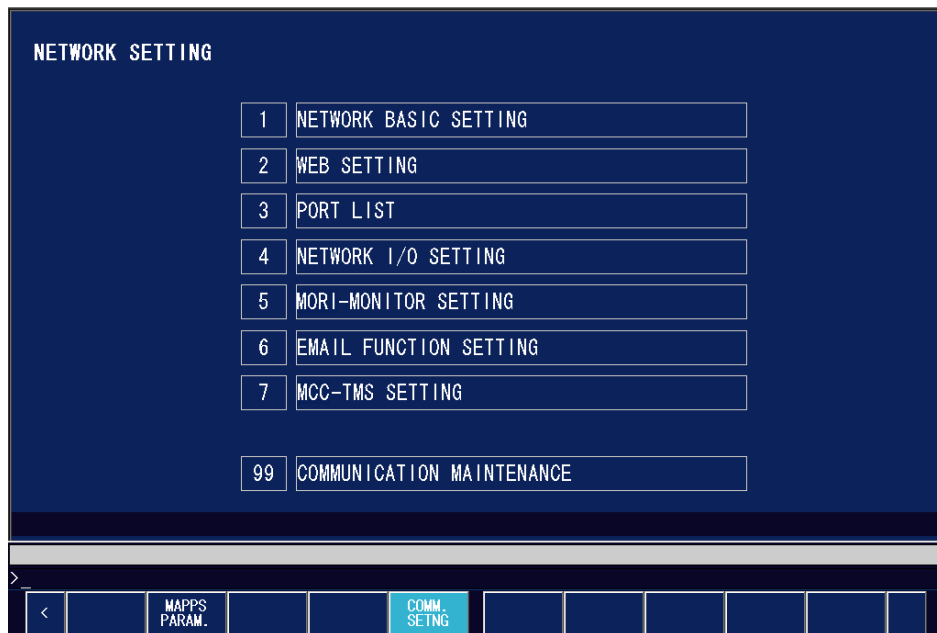


Fig. A-33

4) Enter "4" with the data entry keys.

5) Press the  (INPUT) key.

The MORI-DSN FUNCTION SETTING screen is displayed, as indicated in Fig. A-34.

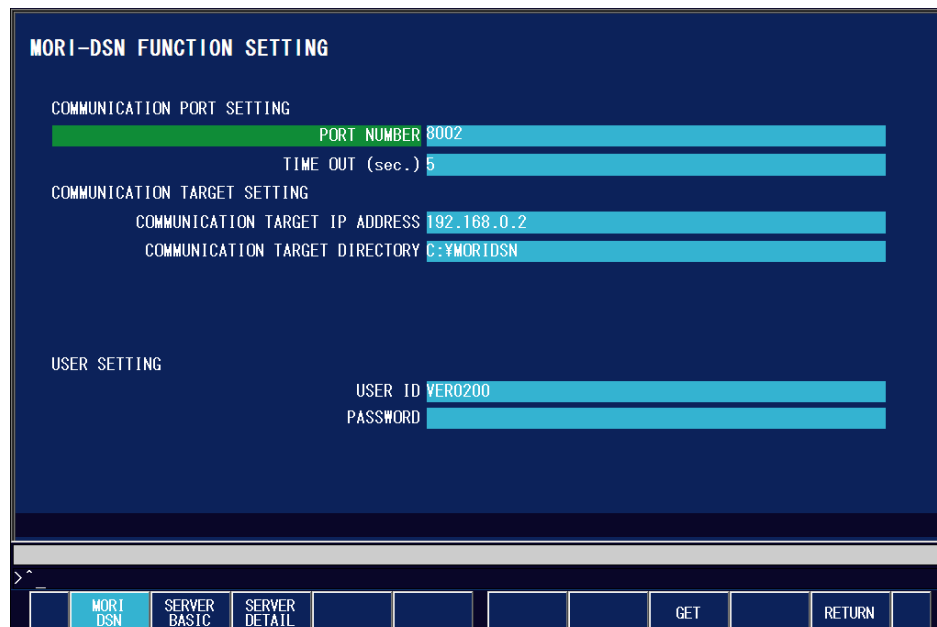


Fig. A-34

- 6) To change the MORI-SERVER function basic settings, press the **[SERVER BASIC]** soft-key.
- 7) To change the MORI-SERVER function detailed settings, press the **[SERVER DETAIL]** soft-key.

1-4-2-3 MORI-SERVER FUNCTION BASIC SETTING Screen

This screen is used to set the basic parameters for communications using MORI-SERVER.

Set the basic parameters for MORI-SERVER by following the procedure below.

- 1) Display the MORI-SERVER FUNCTION BASIC SETTING screen (1-4-2-2 "MORI-SERVER PARAMETER Screen" (page 62)) by following the procedure in Fig. A-35.

Fig. A-35

- 2) At "PORT NUMBER" on this screen, enter the port number that is to be used for MORI-SERVER communications.
- 3) At "TIME OUT (sec.)" set the period before a time-out error occurs in MORI-SERVER communications.



1. If the time set for this parameter is too short, time out may occur if processing takes some time, so make the setting 20 seconds or longer.
2. The actual time that causes a timeout error may differ from the time period set here.
3. To make changes to these parameters effective, the MAPPS II/III/IV power must be turn OFF and back ON.

- 4) At "MAIN FUNCTION" select whether MORI-SERVER communications are enabled or disabled.

If you set "INVALID" here, attempts to communicate from a PC will be rejected.



Normally, the default setting "8008" is used. Change the setting of this parameter only when the "8008" port is used by other software.



This parameter setting should only be changed by a person with a good knowledge of the network. If the number of a port that is being used by other software is specified, it may cause problems with the software using that port.



- 1. Set the same value for this parameter as set for the PC port number in 1-3-1-2 "Setting Communications Parameters" (page 28). If this parameter setting and the port number set at the PC are different, communications cannot be established.
- 2. To make a change to this parameter effective, the MAPPS II/III/IV power must be turn OFF and back ON.

5) AT "IP ADDRESS AUTHORIZATION FUNCTION" select whether or not communications are to be restricted based on the IP address.

If you select "VALID" here, the "IP ADDRESS 1" and "IP ADDRESS 2" fields will be highlighted in color as shown in Fig. A-36 and entry will be possible in these fields.



When communications are restricted based on the IP address, it means that attempts to communicate from addresses other than those specified here are rejected.

MORI-SERVER FUNCTION BASIC SETTING

COMMUNICATION PORT SETTING

PORT NUMBER8008

TIME OUT (sec.)20

FUNCTION SETTING

MAIN FUNCTIONVALIDINVALID

IP ADDRESS AUTHORIZATION FUNCTIONVALIDINVALID

IP ADDRESS 1192.168.0.10

IP ADDRESS 2192.168.10.*

USER AUTHORIZATION FUNCTIONVALIDINVALID

USER 1

USER ID

PASSWORD

USER 2

USER ID

PASSWORD

> ^

MORI DSN SERVER BASIC SERVER DETAIL

GET SET RETURN

Fig. A-36

6) If you select "VALID" for "IP ADDRESS AUTHORIZATION FUNCTION" in Fig. A-35, enter the IP addresses from which communications are permitted at "IP ADDRESS 1" and "IP ADDRESS 2" in Fig. A-36 in the format "xxx.xxx.xxx.xxx".



A wildcard "*" can be used in this setting. If you do use a wild card, use it in a format whereby one delimiter among eight bits can be replaced with "*", like this: "xxx.xxx.xxx.*". Usages such as "xxx.xxx.*" and "xxx.xxx.xxx.1*" are not acceptable.

7) At "USER AUTHORIZATION FUNCTION" in Fig. A-35, select whether the user authorization function is enabled or disabled.

If you select "VALID" here, the "USER 1" and "USER 2" fields will become highlighted in color as indicated in Fig. A-37 and you will be able to make VALID/INVALID settings for user 1 and user 2.



- 1. The user authorization function is a function that checks whether the user ID and password sent from a PC match the user ID and password pre-registered at MAPPS and rejects the communication if they do not match. Set the user IDs and passwords for which communications are permitted as follows.
- 2. If the user authorization function is disabled (INVALID), the operation is the same as when communications are authorized for user 1.

MORI-SERVER FUNCTION BASIC SETTING

COMMUNICATION PORT SETTING

PORT NUMBER8008

TIME OUT (sec.)20

FUNCTION SETTING

MAIN FUNCTIONVALIDINVALID

IP ADDRESS AUTHORIZATION FUNCTIONVALIDINVALID

IP ADDRESS 1192.168.0.10

IP ADDRESS 2192.168.10.*

USER AUTHORIZATION FUNCTIONVALIDINVALID

USER 1VALIDINVALID

USER ID

PASSWORD

USER 2VALIDINVALID

USER ID

PASSWORD

> ^

MORI DSN SERVER BASIC SERVER DETAIL

GET SET RETURN

Fig. A-37

- 8) At "USER 1" in Fig. A-37, select whether the user ID and password set for user 1 in the manner described below are valid or invalid.
- If you select "VALID" here, the user 1 "USER ID", and "PASSWORD" fields will be highlighted in color as shown in Fig. A-38 and entry will be possible in these fields.

MORI-SERVER FUNCTION BASIC SETTING

COMMUNICATION PORT SETTING

PORT NUMBER8008

TIME OUT (sec.)20

FUNCTION SETTING

MAIN FUNCTIONVALIDINVALID

IP ADDRESS AUTHORIZATION FUNCTIONVALIDINVALID

IP ADDRESS 1192.168.0.10

IP ADDRESS 2192.168.10.*

USER AUTHORIZATION FUNCTIONVALIDINVALID

USER 1VALIDINVALID

USER IDMORISETKI

PASSWORD*****

USER 2VALIDINVALID

USER ID

PASSWORD

> ^

MORI DSN SERVER BASIC SERVER DETAILGETSETRETURN

Fig. A-38

- 9) Enter the user ID and password for user 1 in the "USER ID" and "PASSWORD" fields in Fig. A-38.
- The characters entered for the password will be displayed as asterisks.

- 10) At "USER 2" in Fig. A-37, select whether the user ID and password set for user 2 in the manner described below are valid or invalid.

If you select "VALID" here, the user 2 "USER ID" and "PASSWORD" fields will be highlighted in color as shown in Fig. A-39 and entry will be possible in these fields.

MORI-SERVER FUNCTION BASIC SETTING

COMMUNICATION PORT SETTING

PORT NUMBER 8008

TIME OUT (sec.) 20

FUNCTION SETTING

MAIN FUNCTION ☒ VALID ☐ INVALID

IP ADDRESS AUTHORIZATION FUNCTION ☒ VALID ☐ INVALID

IP ADDRESS 1 192.168.0.10

IP ADDRESS 2 192.168.10.*

USER AUTHORIZATION FUNCTION ☒ VALID ☐ INVALID

USER 1 ☒ VALID ☐ INVALID

USER ID MORISEIKI

PASSWORD *****

USER 2 ☒ VALID ☐ INVALID

USER ID CTL


PASSWORD ****

> ^

MORI DSN SERVER BASIC SERVER DETAIL GET SET RETURN

Fig. A-39

- 11) Enter the user ID and password for user 2 in the "USER ID" and "PASSWORD" fields in Fig. A-39.
- The characters entered for the password will be displayed as asterisks.
- 12) Press the **[GET]** soft-key (Fig. A-39).
- You can obtain the data from the field selected with the cursor in the textbox.
- 13) When you have completed the parameter entry procedure from 2) through 11), press the **[SET]** soft-key.
- The entered data will be set at MAPPS II/III/IV.



By pressing the **[MORI DSN]**, **[SERVER DETAIL]** or **[RETURN]** soft-key rather than **[SET]**, you can display the soft-key menu shown in Fig. A-40. Press **[OK]** in this menu to discard the entered data (it will not be set in MAPPS) and display the screen that corresponds to the soft-key you pressed, as indicated below.

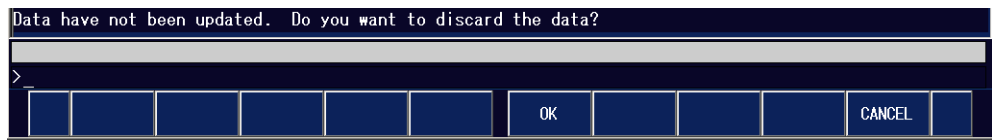


Fig. A-40

If you pressed the **[MORI DSN]** soft-key, the MORI-DSN FUNCTION SETTING screen shown in Fig. A-34 is displayed.

If you pressed the **[SERVER DETAIL]** soft-key, the MORI-SERVER DETAIL SETTING screen shown in Fig. A-42 is displayed.


If you pressed the **[RETURN]** soft-key, the NETWORK SETTING screen shown in Fig. A-33 is displayed.

Pressing the **[SERVER BASIC]** soft-key will not cause any change.

1-4-2-4 MORI-SERVER DETAIL SETTING Screen

This screen is used to set the "VALID" or "INVALID" status for individual functions as the detailed communications parameters for MORI-SERVER.

Follow the procedure below to set the detailed MORI-SERVER parameters.



With regard to the settings in steps 2) through 6), if you are authorized as User 1 or the user authorization function is invalid, enter the data set at "USER 1" in Fig. A-41, and if you are authorized as User 2, enter the data set at "USER 2".

USER 1	<input checked="" type="radio"/> VALID	<input type="radio"/> INVALID
USER ID	CTL1	
PASSWORD	*****	
USER 2	<input checked="" type="radio"/> VALID	<input type="radio"/> INVALID
USER ID	MORISEIKI	
PASSWORD	****	

Fig. A-41

- 1)
- Follow the procedure in 1-4-2-2 "MORI-SERVER PARAMETER Screen" (page 62) to display the MORI-SERVER DETAIL SETTING screen (Fig. A-42).

MORI-SERVER DETAIL SETTING

SETTING FOR EACH FUNCTION

	PC → MAPPS		MAPPS → PC	
	USER 1	USER 2	USER 1	USER 2
NC PROGRAM INPUT/OUTPUT	PERMIT	PROHIBIT	PROHIBIT	PROHIBIT
FOREGROUND PROGRAM	PERMIT			
BG EDIT PROGRAM	PERMIT			
NC PROGRAM DELETE	PERMIT	PERMIT		
CONVERSATION PROGRAM INPUT/OUTPUT	PROHIBIT	PERMIT	PERMIT	PROHIBIT
CONVERSATION PROGRAM OVERWRITE		PERMIT		
CONVERSATION DATA INPUT/OUTPUT	PROHIBIT	PERMIT	PERMIT	PROHIBIT
CARD DNC INPUT/OUTPUT	PERMIT	PROHIBIT	PERMIT	PROHIBIT
CARD DNC OVERWRITE	PERMIT			
CARD DNC DELETE	PERMIT	PROHIBIT		

> ^

MORI DSN SERVER BASIC **SERVER DETAIL** PERMIT PROHIBIT SET RETURN

Fig. A-42

- 2) In the "PC → MAPPS" column of the NC PROGRAM INPUT/OUTPUT settings in Fig. A-42, select whether to permit or prohibit the function for inputting programs from a PC into the NC unit running MAPPS II/III/IV (2-2-4 "Individual NC Program Input Function" (page 82) and 2-2-7 "All NC Program Input Function" (page 90)) by selecting the **[PROHIBIT]** or **[PERMIT]** soft-key.

If you select PERMIT, the FOREGROUND PROGRAM and BG EDIT PROGRAM fields will be highlighted in color and you will be able to select the PERMIT or PROHIBIT option for these items.



Even if you select PERMIT here, it may not be possible to run the program due to the NC settings.

- 3) In the "MAPPS → PC" column of the NC PROGRAM INPUT/OUTPUT settings in Fig. A-42, select whether to permit or prohibit the function for inputting programs from the NC unit running MAPPS II/III/IV to a PC (2-2-3 "Individual NC Program Output Function" (page 79) and 2-2-6 "All NC Program Output Function" (page 87)) by selecting the **[PROHIBIT]** or **[PERMIT]** soft-key.



Even if you select PERMIT here, it may not be possible to run the program due to the NC settings.

- 4) At FOREGROUND PROGRAM in Fig. A-42, select whether, when an NC program is input from a PC to the NC unit running MAPPS II/III/IV and an NC program with the same program number as the foreground program is found to exist at the MAPPS II/III/IV side, overwriting of the existing program is permitted or prohibited, using the **[PERMIT]** or **[PROHIBIT]** soft-key.



Even if you select PERMIT here, it may not be possible to overwrite the program due to the NC settings.

- 5) At BG EDIT PROGRAM in Fig. A-42, select whether, when an NC program is input from a PC to the NC unit running MAPPS II/III/IV and an NC program with the same program number as the program being edited in the background is found to exist at the MAPPS II/III/IV side, overwriting of the existing program is permitted or prohibited, using the **[PERMIT]** or **[PROHIBIT]** soft-key.



Even if you select PERMIT here, it may not be possible to overwrite the program due to the NC settings.

- 6) In the "PC → MAPPS" column at NC PROGRAM DELETE in Fig. A-42, select whether to permit or prohibit the function for deleting NC programs from inside the NC running MAPPS II/III/IV (2-2-5 "NC Program Delete Function" (page 85) and 2-2-11 "Conversational Program Delete Function" (page 99)) with the **[PERMIT]** or **[PROHIBIT]** soft-key.



Even if you select PERMIT here, it may not be possible to overwrite the program due to the NC settings.

- 7) In the "PC → MAPPS" column at CONVERSATION PROGRAM INPUT/OUTPUT in Fig. A-42, select whether to permit or prohibit the function for inputting conversational programs from the PC into the NC running MAPPS II/III/IV with the **[PERMIT]** or **[PROHIBIT]** soft-key. If you select PERMIT, the CONVERSATION PROGRAM OVERWRITE "PERMIT" or "PROHIBIT" option will be highlighted in color and you will be able to change this setting.
- 8) In the "MAPPS → PC" column at CONVERSATION PROGRAM INPUT/OUTPUT in Fig. A-42, select whether to permit or prohibit the function for inputting conversational programs from the NC running MAPPS II/III/IV to a PC with the **[PERMIT]** or **[PROHIBIT]** soft-key.
- 9) At CONVERSATION PROGRAM OVERWRITE in Fig. A-42, use the **[PERMIT]** or **[PROHIBIT]** soft-key to select whether when a conversational program is input from a PC to the NC running MAPPS II/III/IV and the same program is found to exist already at MAPPS II/III/IV, overwriting of the existing program is permitted or prohibited.
- 10) In the "PC → MAPPS" column at CONVERSATION DATA INPUT/OUTPUT in Fig. A-42, use the **[PERMIT]** or **[PROHIBIT]** soft-key to select whether the function for inputting conversational data from a PC to the NC running MAPPS II/III/IV is permitted or prohibited.
- 11) In the "MAPPS → PC" column at CONVERSATION DATA INPUT/OUTPUT in Fig. A-42, use the **[PERMIT]** or **[PROHIBIT]** soft-key to select whether the function for outputting conversational data from the NC running MAPPS II/III/IV to a PC is permitted or prohibited.
- 12) In the "PC → MAPPS" column at CARD DNC INPUT/OUTPUT in Fig. A-42, use the **[PERMIT]** or **[PROHIBIT]** soft-key to select whether the function for inputting files from a personal computer to the card DNC/ESPRIT area in the MAPPS II/III/IV is permitted or prohibited.
- 13) In the "MAPPS → PC" column at CARD DNC INPUT/OUTPUT in Fig. A-42, use the **[PERMIT]** or **[PROHIBIT]** soft-key to select whether the function for outputting files and folders from the card DNC/ESPRIT area in the MAPPS II/III/IV to a personal computer is permitted or prohibited.
- 14) At CARD DNC OVERWRITE in Fig. A-42, use the **[PERMIT]** or **[PROHIBIT]** soft-key to select whether, if a program is input from a personal computer to the card DNC/ESPRIT area in the MAPPS II/III/IV and a program of the same name already exists in the MAPPS, overwriting of the existing program is permitted or prohibited.

- 15) At CARD DNC DELETE in Fig. A-42, use the **[PERMIT]** or **[PROHIBIT]** soft-key to select whether the function for deleting files from the card DNC/ESPRIT area in the MAPPS II/III/IV is permitted or prohibited.
- 16) When entry of the parameter data described above is completed (Fig. A-42), press the **[SET]** soft-key.

The data entered will be set in MAPPS II/III/IV.



By pressing the **[MORI DSN]**, **[SERVER BASIC]** or **[RETURN]** soft-key rather than **[SET]**, you can display the soft-key menu shown in Fig. A-43. Press **[OK]** in this menu to discard the entered data (it will not be set in MAPPS) and display the screen that corresponds to the soft-key you pressed, as indicated below.

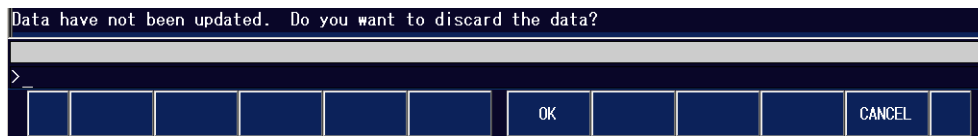


Fig. A-43

If you pressed the **[MORI DSN]** soft-key, the MORI-DSN FUNCTION SETTING screen shown in Fig. A-34 is displayed.

If you pressed the **[SERVER BASIC]** soft-key, the MORI-SERVER BASIC SETTING screen shown in Fig. A-35 is displayed.

If you pressed the **[RETURN]** soft-key, the NETWORK SETTING screen shown in Fig. A-33 is displayed.

Pressing the **[SERVER DETAIL]** soft-key will not cause any change.

1-4-3 Setting MSC-500/700

A FANUC's FAST Ethernet board is required to connect with the MSC-500/700.



For details of connection with the MSC-500/700, refer to FANUC FAST Ethernet/FANUC FAST Data Server OPERATOR'S MANUAL.



This product is designed to connect between machines made by Mori Seiki and a PC. Mori Seiki will not be liable for any damage caused by using this product to connect with any machine made by other manufacturers.

1-4-4 Setting SEICOS Σ



For details of setting for SEICOS Σ , refer to the operation manual for SEIKI-SEICOS Σ 16M/18M, or the operation manual for SEIKI-SEICOS Σ 16T/18T/21L.

1-4-5 Setting Data Server (16i)/Data Server (30i)

For connection to the data server, a data server board equipped with the FTP server function is required.



For details on the connection to the data server board, refer to the FANUC FAST Ethernet/FAST Data Server OPERATOR'S MANUAL.



This product is designed to connect between machines made by Mori Seiki and a PC. Mori Seiki will not be liable for any damage caused by using this product to connect with any machine made by other manufacturers, or to an FTP server.

1-4-6 Setting Data Server (M730/M750)

The MITSUBISHI data server board is required to connect to the data server.



For details of connection with the data server board, refer to the separate DATA SERVER OPERATION MANUAL.

2 COMMUNICATION FUNCTIONS

This section explains operations for communications with MAPPS using MORI-SERVER.

2-1 Selecting the Communication Target Machine

With MORI-SERVER, you first select the machine to be the communication target and then you can perform various types of communication in relation to that machine.

Select the communication target machine in the manner described below.

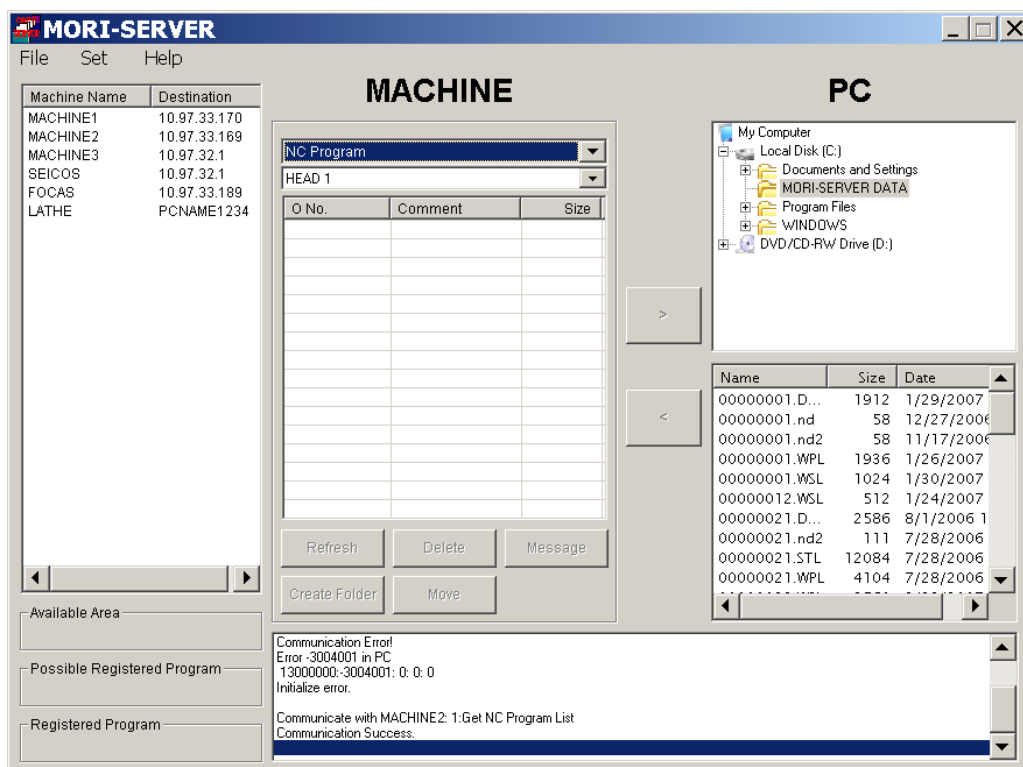
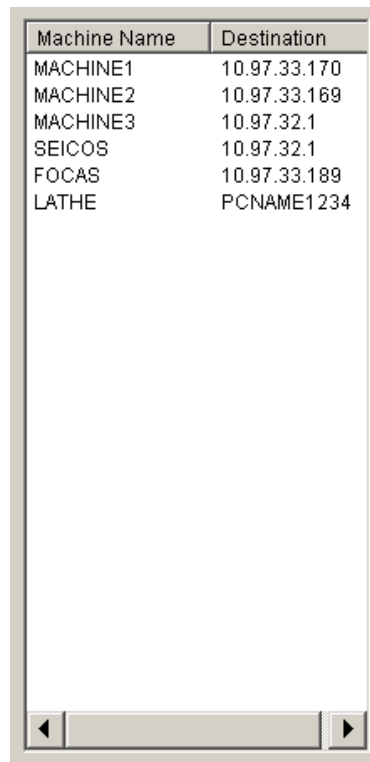


Fig. A-44



For details on the procedure for registering machine information, see 1-3-5-1 "New Machine Registration" (page 35).

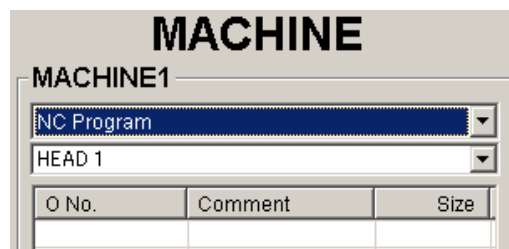
- 1) Select the machine to be set as the communication target in the machine list display area.



Machine Name	Destination
MACHINE1	10.97.33.170
MACHINE2	10.97.33.169
MACHINE3	10.97.32.1
SEICOS	10.97.32.1
FOCAS	10.97.33.189
LATHE	PCNAME1234

Fig. A-45

- 2) The selected machine name is displayed in the machine name display area as shown in Fig. A-46. This completes setting of the communication target machine.



MACHINE

MACHINE1

NC Program

HEAD 1

O No.	Comment	Size

Fig. A-46

2-2 Communications Operations

This section describes the communications operations of MORI-SERVER.

In order to perform these operations you must first have selected the communication target machine as described in 2-1 "Selecting the Communication Target Machine" (page 74).

2-2-1 Message Transmit Function

MORI-SERVER provides a function for transmitting simple messages to MAPPS (MAPPS and MAPPS II/III/IV). When a message is received from MORI-SERVER, a message box appears on the MAPPS screen to display the message.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

This section explains the procedure for transmitting a message to MAPPS.

- 1) Click the [Message] button.

The "Message Input" dialog box appears.

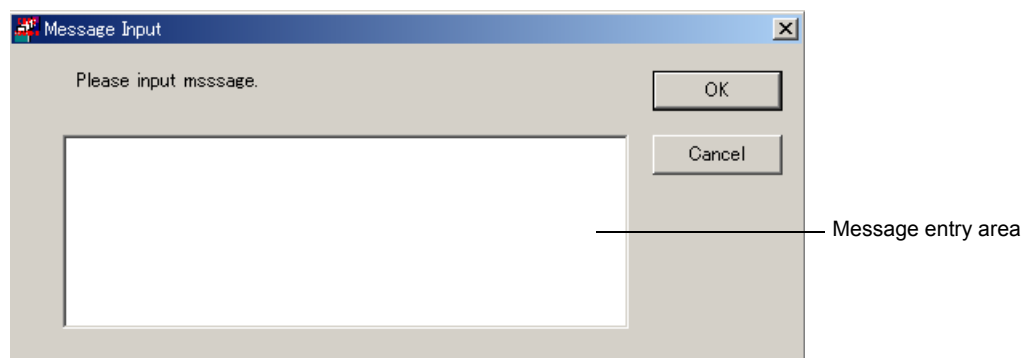


Fig. A-47

- 2) Enter the message to be transmitted in the message entry area. It can be up to 40 characters in length.



1. When entering a message, use only characters that MAPPS can display correctly. A message containing symbols or other elements that MAPPS cannot display will not be displayed correctly.
2. Up to 40 characters can be entered in the Message Input dialog box. However, MAPPS can display a maximum of only 40 characters or so. If a message longer than the number of characters that MAPPS can display is entered, message transmission will fail.



The priority of the message to be sent is set as "normal". For details on priorities, see 6-2 "Message Priority Levels" (page 146).

- 3) To send the message that you have entered, press the [OK] button in the "Message Input" dialog box.



To cancel transmission of the message, click the [Cancel] button.

2-2-2 NC Program List Obtaining Function

MORI-SERVER provides a function for obtaining the list of NC programs stored in the NC unit of the communication target machine and displaying it in the machine window at a PC.

This section explains the procedure for obtaining the list of NC programs.

- 1) Select the communication target machine in the machine list display area.

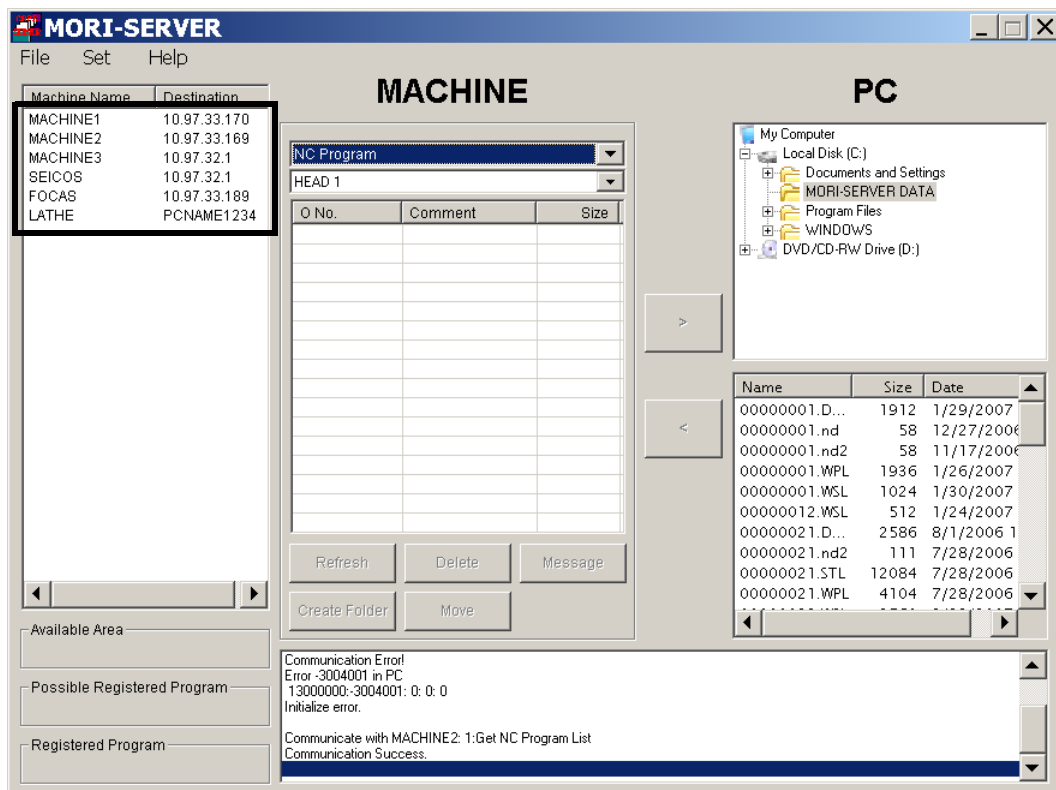


Fig. A-48

- 2) Select "NC Program" from the data selection combo box.

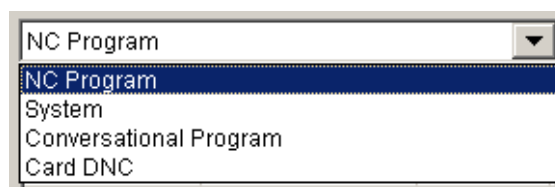
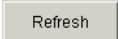


Fig. A-49

- 3) Select whether the machine has one head or two heads in the head selection combo box.



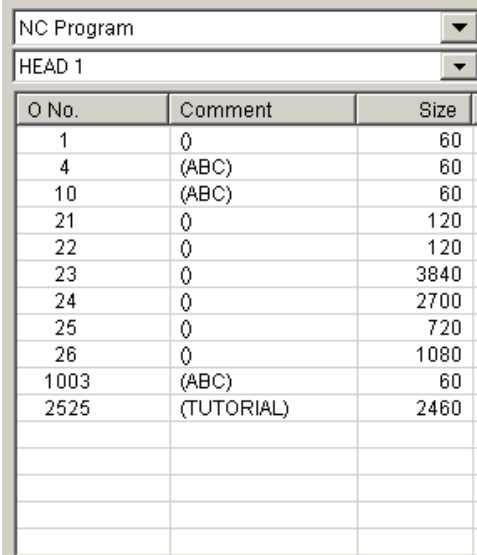
Fig. A-50

- 4) Click the  button.

Or, double-click the communication target machine in the machine list display area.

- 5) Communication starts.

When the communication is successfully completed, the obtained NC program list is displayed in the machine window.



O No.	Comment	Size
1	0	60
4	(ABC)	60
10	(ABC)	60
21	0	120
22	0	120
23	0	3840
24	0	2700
25	0	720
26	0	1080
1003	(ABC)	60
2525	(TUTORIAL)	2460

Fig. A-51

Clicking a title sorts the data in the order determined by the clicked title.

Information on the program storage area of the communication target NC is displayed in the machine information display area.

2-2-3 Individual NC Program Output Function

Using this function, you can select one or more programs stored in an NC of the communication target machine and output them to files of your choice in a PC.

This section explains the procedure for outputting NC programs individually to the target machines.

- 1) By following the procedure in 2-2-2 "NC Program List Obtaining Function" (page 77), display the list of NC programs in the NC unit serving as the program output source in the machine window Fig. A-52.

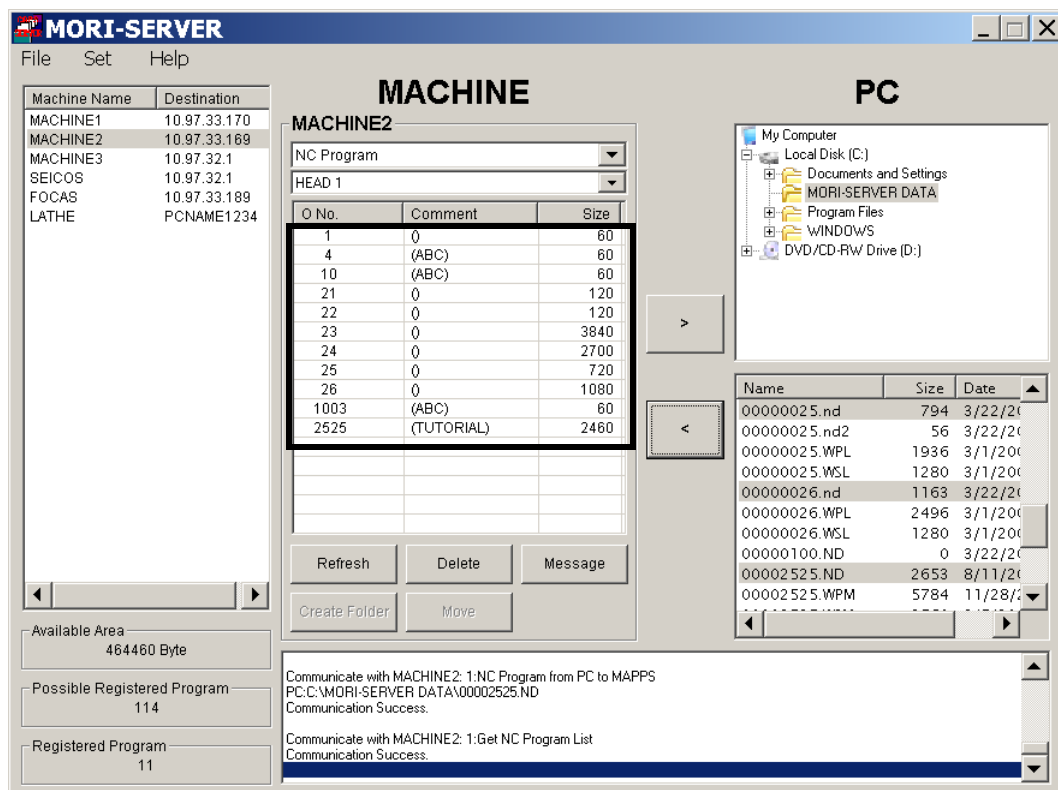


Fig. A-52

- 2) Select the program or programs to be output by clicking on them in the machine window
Fig. A-53.

NC Program		
HEAD 1		
O No.	Comment	Size
1	0	60
4	(ABC)	60
10	(ABC)	60
21	0	120
22	0	120
23	0	3840
24	0	2700
25	0	720
26	0	1080
1003	(ABC)	60
2525	(TUTORIAL)	2460

Fig. A-53



When you select multiple NC programs, all the programs are output to a single file.



For the details of the settings for outputting multiple NC programs, refer to 1-3-6 "File Name Auto-Creating Function" (page 42).

- 3) From the folder tree display area (Fig. A-54), select the target folder.

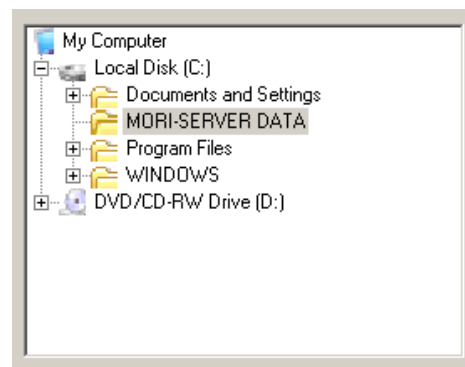


Fig. A-54

- 4) Click the  button.

The "File Name Input" dialog box appears (Fig. A-55).

- 5) Enter the file name of the file to be output in the textbox.



Fig. A-55



The following table shows how the file name input dialog box display/hide status, the type of extension, and the file name format differs according to settings of the file name auto-creating function, the default extension function, and the NC Prog. I/O Setting screen.

Function	Setting	File name format
File name auto-creating function	Valid	The "File Name Input" dialog box is displayed.
"A dialog prompting input of a file name is NOT displayed"	Invalid	The file name as specified on the Set File Name Format screen is displayed in the file name field.
File name auto-creating function	Valid	The "File Name Input" dialog box is not displayed.
"A dialog prompting input of a file name is NOT displayed"	Valid	The rules specified on the Set File Name Format screen apply to the program file on output.
Default extension function	Valid	The default extension is automatically appended to the file name on output even if it has not been added in the textbox, or if an extension other than the default has been added in the textbox.



1. For details on the file name auto-creating function, refer to 1-3-6 "File Name Auto-Creating Function" (page 42).
2. For details on the default extension function, refer to 1-3-6-2 "Default Extension Function" (page 46).
3. For details on "a dialog prompting input of a file name is NOT displayed on the NC Prog. I/O Setting screen, refer to 1-3-7 "NC Program Input/Output Settings" (page 47).

- 6) To execute NC program output, click the [OK] button (Fig. A-55).



To cancel output, click the [Cancel] button.

2-2-4 Individual NC Program Input Function

This allows you to input NC programs from a program file stored in a PC to an NC unit.

This section explains the procedure for inputting NC programs individually.

- 1) Select the communication target machine in the machine list display area.

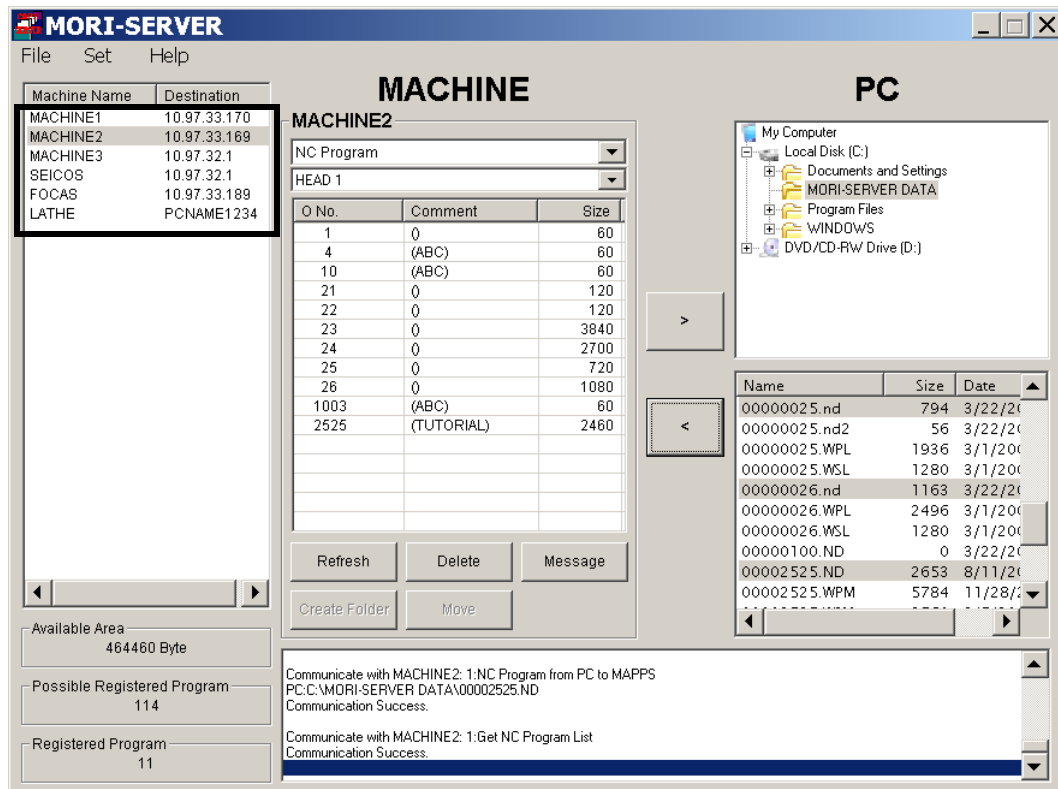


Fig. A-56

- 2) Select "NC Program" from the data selection combo box.

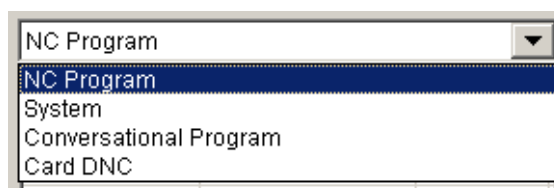


Fig. A-57

- 3) Select whether the machine has one head or two heads in the head selection combo box.



Fig. A-58

- 4) In folder tree display area Fig. A-59, select the source folder.

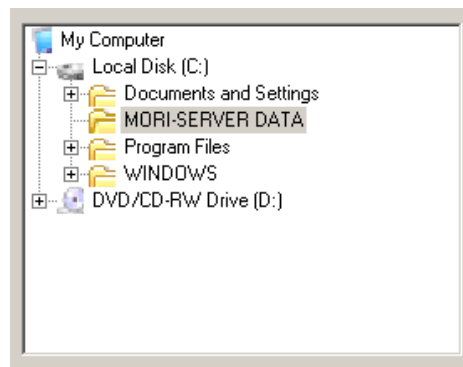


Fig. A-59

- 5) The file to be input is selected in the file list display area, as shown in Fig. A-60.

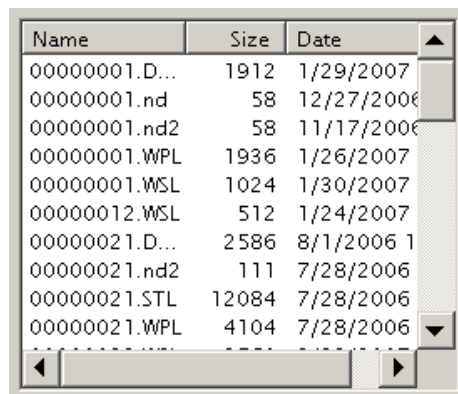


Fig. A-60



Multiple files can be specified by using the same method as used with the individual NC program output function. In this case a dialog box (Fig. A-61) is displayed for each file to be input.

- 6) Click the  button.

- 7) Click the  button.

A message asking you to confirm the input will appear (Fig. A-61).

8) To proceed with the input, click the [OK] button.



To cancel input, click the [Cancel] button.

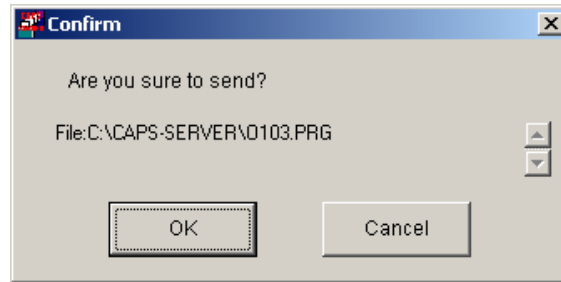


Fig. A-61



If multiple program files are selected in step 5), the program files will be transmitted one by one. Therefore a message to confirm the file transmission and a message to notify completion of the NC program input will be displayed for each file.

When the transmission of all the selected files is completed, 2-2-2 "NC Program List Obtaining Function" (page 77) is automatically executed to refresh the contents of the machine window.

2-2-5 NC Program Delete Function

This allows you to delete the NC programs stored in the NC unit.

This section explains the procedure for deleting NC programs.

- 1) By following the procedure in 2-2-2 "NC Program List Obtaining Function" (page 77), display the list of NC programs in the NC unit serving as the program output source in the machine window Fig. A-62.

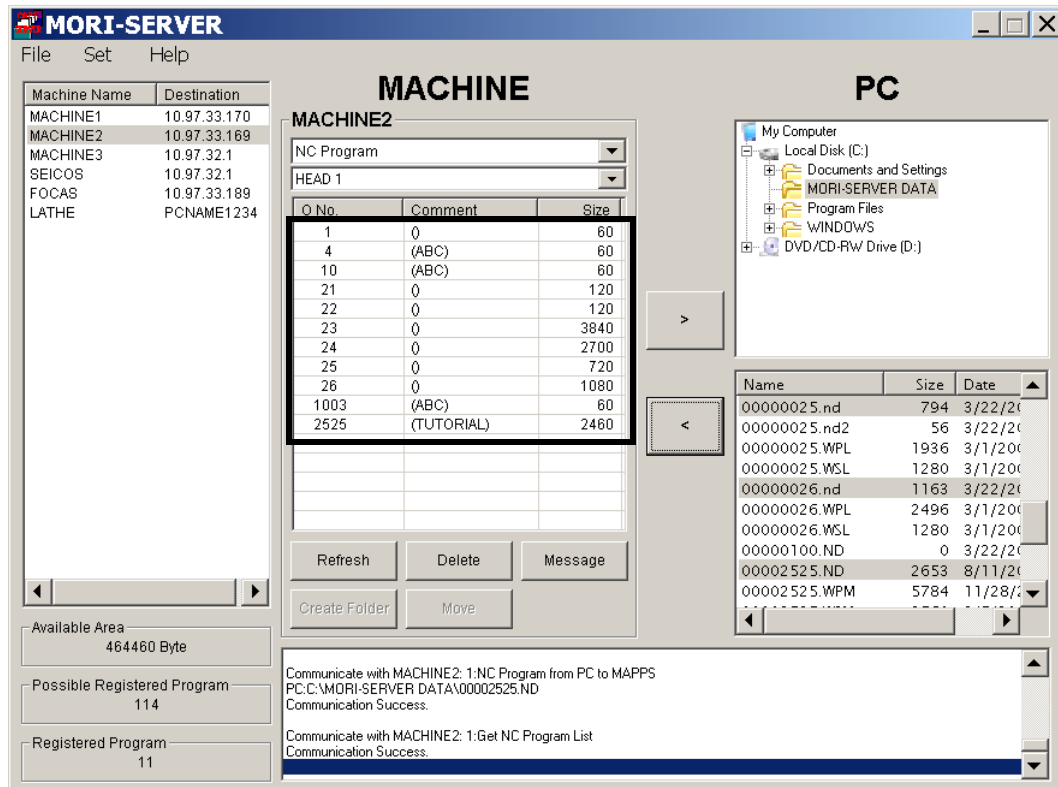
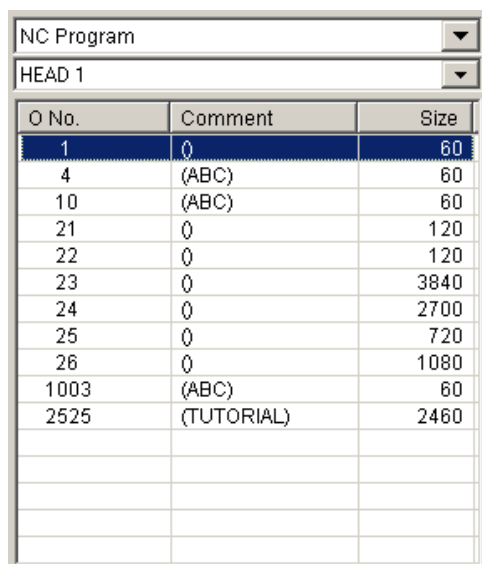


Fig. A-62

- 2) Select the program or programs to be deleted by clicking on them in the machine window Fig. A-63.



O No.	Comment	Size
1	0	60
4	(ABC)	60
10	(ABC)	60
21	0	120
22	0	120
23	0	3840
24	0	2700
25	0	720
26	0	1080
1003	(ABC)	60
2525	(TUTORIAL)	2460

Fig. A-63

- 3) Click the  button.

A message asking you to confirm the deletion will appear (Fig. A-64).

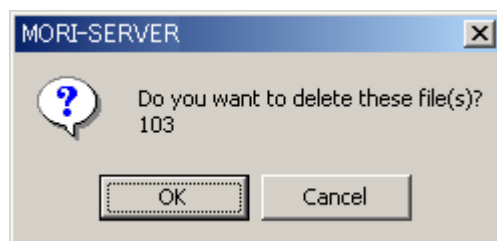


Fig. A-64

- 4) To proceed with the deletion, click the [OK] button.



1. To cancel deletion, click the [Cancel] button.
2. If multiple program files are selected in step 2), the program files will be deleted one by one. Therefore a message to confirm the file deletion and a message to notify completion of the NC program deletion will be displayed for each file.

When the deletion of all the selected files is completed, 2-2-2 "NC Program List Obtaining Function" (page 77) is automatically executed to refresh the contents of the machine window.

2-2-6 All NC Program Output Function

This function is equivalent to the NC program output function that can be executed from the IN/OUT screen of MAPPS. It allows you to output all of the NC programs stored in an NC unit of the machine in a batch.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

Follow the procedure below to output all the NC programs in a batch.

- 1) Select the communication target machine in the machine list display area.

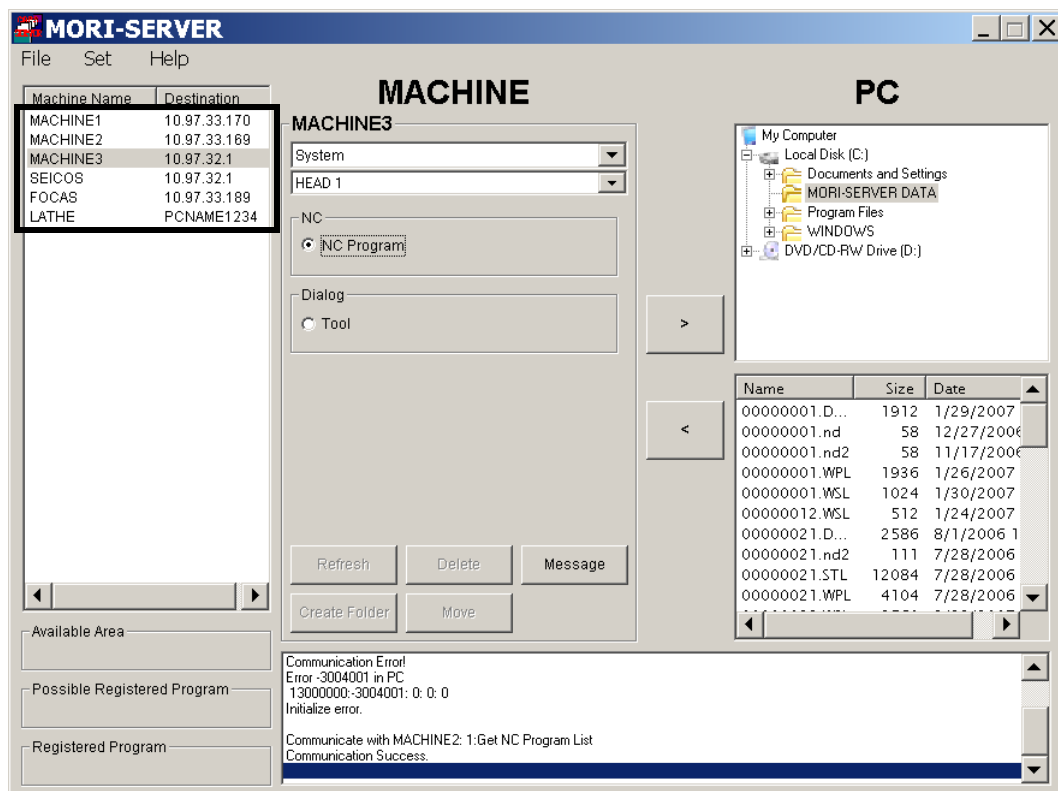


Fig. A-65

- 2) From the data selection combo box, select "System".

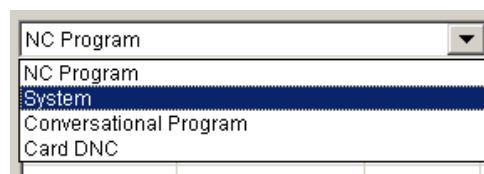


Fig. A-66

- 3) Select whether the machine has one head or two heads in the head selection combo box.



Fig. A-67

- 4) In the machine window, select the "NC Program" radio button.

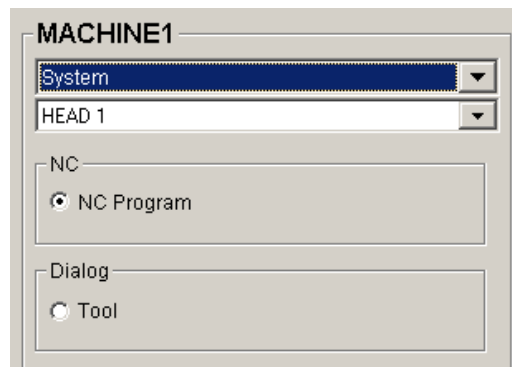


Fig. A-68

- 5) From the folder tree display area (Fig. A-69), select the target folder.

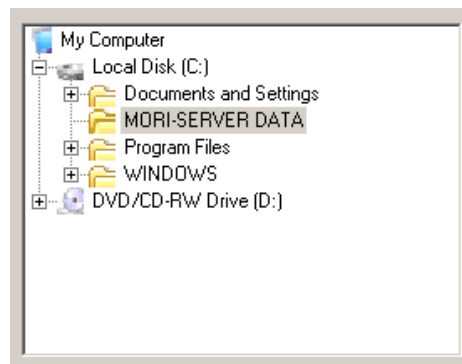


Fig. A-69

- 6) Click the  button.

The "File Name Input" dialog box appears (Fig. A-70).

- 7) Enter a filename of the file to be output in the textbox.



Fig. A-70



1. Even when the file name auto-creating function is enabled, the default file name is not shown in the textbox for "all NC program output".
2. If the default extension function is enabled, the default extension is appended unconditionally, even if an extension other than the default has been added in the textbox.

- 8) To execute NC program output, click the [OK] button (Fig. A-70).



To cancel output, click the [Cancel] button.

2-2-7 All NC Program Input Function

This function is equivalent to the NC program input function that can be executed from the IN/OUT screen of MAPPS. It allows you to input all of the NC programs stored in files at a PC into an NC unit of the machine.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

Follow the procedure below to input all the NC programs in a batch.

- 1) Select the communication target machine in the machine list display area.

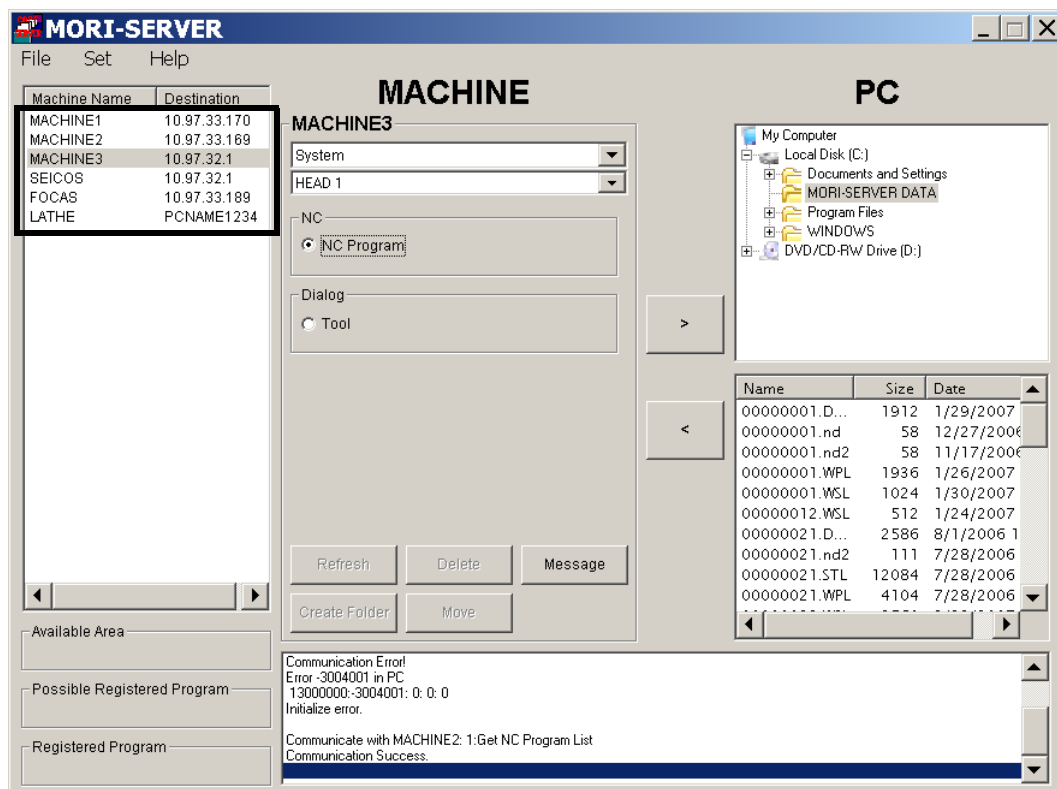


Fig. A-71

- 2) From the data selection combo box, select "System".

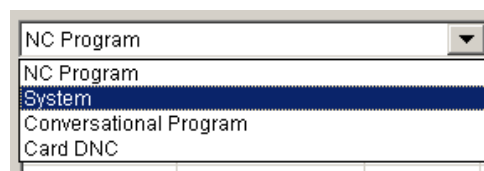


Fig. A-72

- 3) Select whether the machine has one head or two heads in the head selection combo box.



Fig. A-73

- 4) In the machine window, select the "NC Program" radio button.

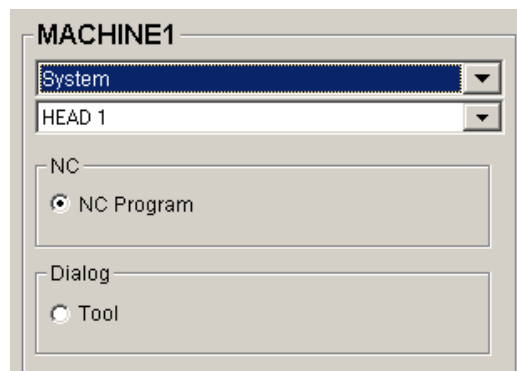


Fig. A-74

- 5) In the folder tree display area Fig. A-75, select the folder where the files to be input are located.

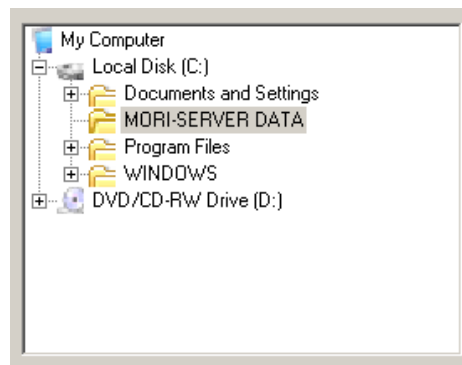
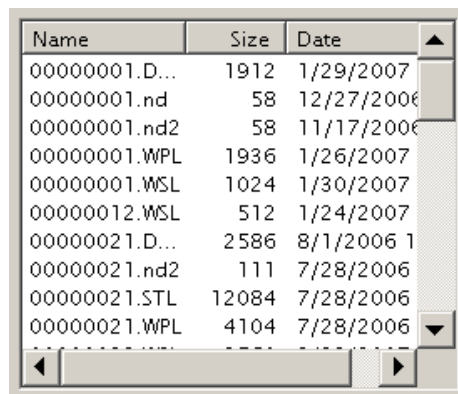



Fig. A-75

- 6) Select the files to be input in the file list display area as shown in Fig. A-76.



Name	Size	Date
00000001.D...	1912	1/29/2007
00000001.nd	58	12/27/2006
00000001.nd2	58	11/17/2006
00000001.WPL	1936	1/26/2007
00000001.WSL	1024	1/30/2007
00000012.WSL	512	1/24/2007
00000021.D...	2586	8/1/2006
00000021.nd2	111	7/28/2006
00000021.STL	12084	7/28/2006
00000021.WPL	4104	7/28/2006


Fig. A-76

-  If multiple program files are selected in step 6), the program files will be transmitted one by one. Therefore a message to confirm the file transmission and a message to notify completion of the NC program input will be displayed for each file.

- 7) Click the  button.

A message asking you to confirm the input will appear (Fig. A-77).

- 8) To proceed with the input, click the [OK] button.

-  To cancel input, click the [Cancel] button.

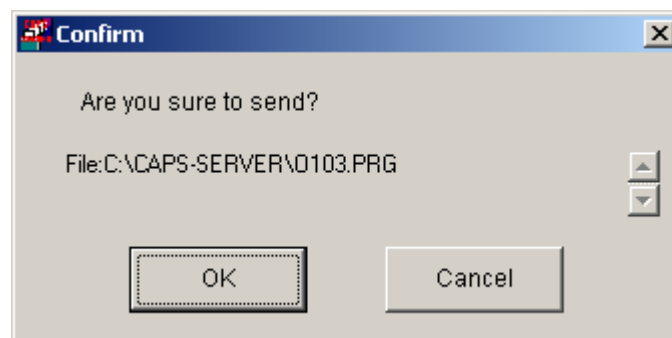


Fig. A-77

2-2-8 Conversational Program List Acquisition Function

MORI-SERVER provides a function for obtaining the list of conversational programs stored in the target MAPPS and displaying it in the machine window at a PC.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

This section explains the procedure for obtaining the list of conversational programs.

- 1) Select the communication target machine in the machine list display area.

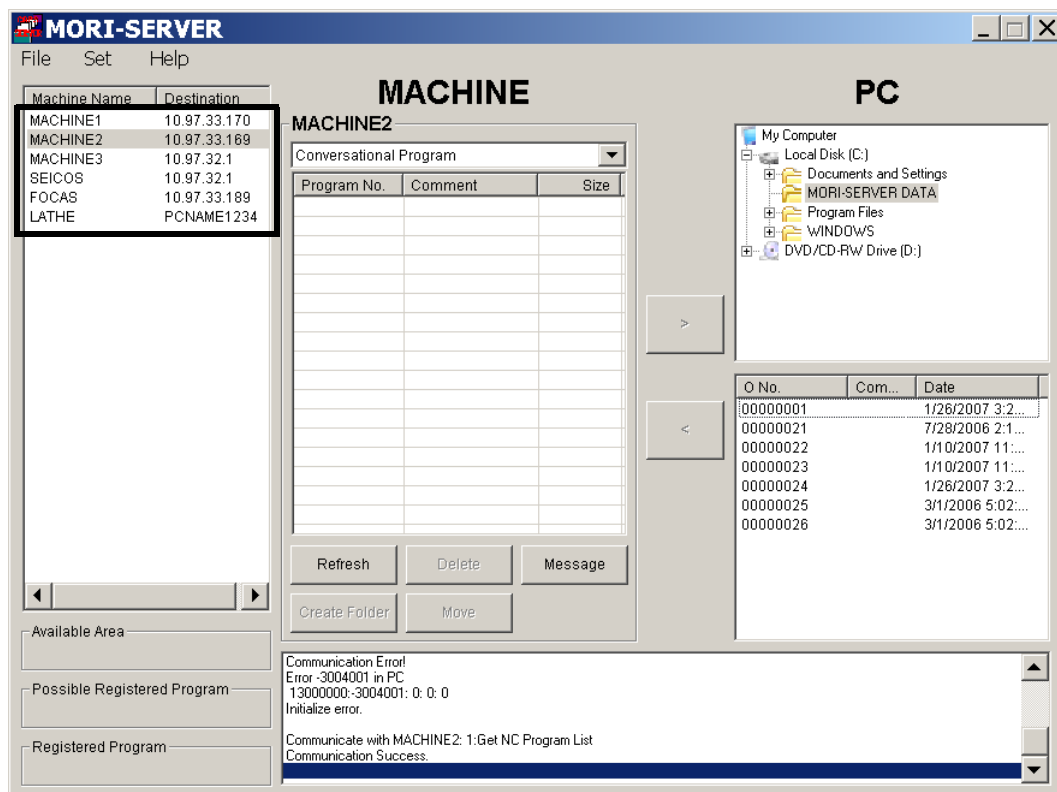


Fig. A-78

- 2) From the data selection combo box, select "Conversational Program".

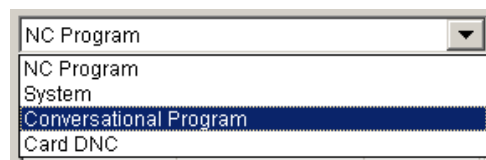


Fig. A-79

2-2-9 Conversational Program Output Function

This function is equivalent to the conversational program output function that can be executed on the CAPS screen of MAPPS. Using this function, you can select one or more conversational programs stored in the target machine and output them to a PC.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

This section explains the procedure for outputting conversational programs.

- 1) By following the procedure in 2-2-8 "Conversational Program List Acquisition Function" (page 93), display the list of conversational programs in MAPPS, which will serve as the output source, in the machine window.

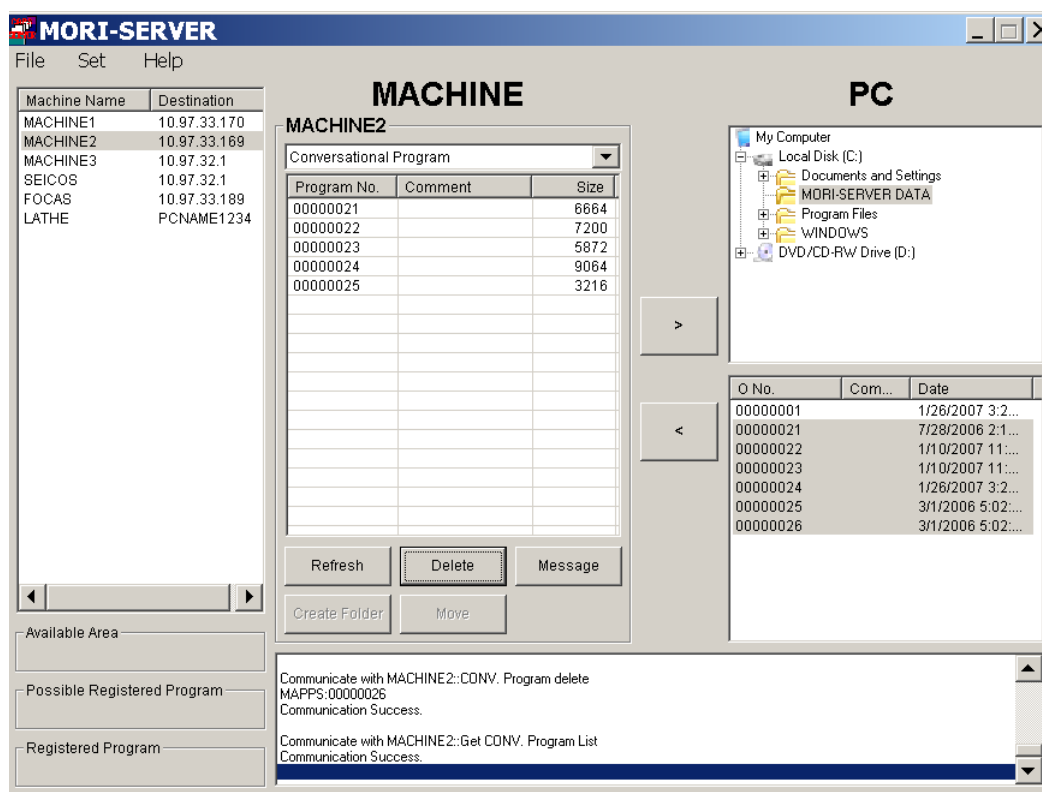


Fig. A-81

- 2) Select the program or programs to be output by clicking on them in the machine window
Fig. A-82.

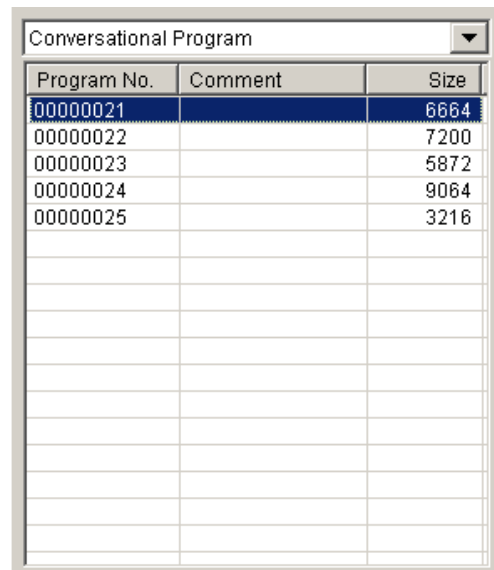


Fig. A-82

- 3) From the folder tree display area (Fig. A-83), select the target folder.

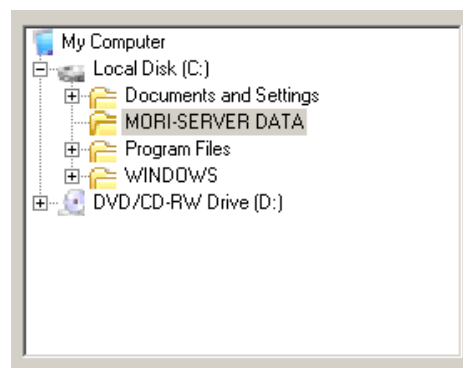


Fig. A-83

- 4) Click the  button.

Two files of the specified program number with the following file extensions are output to the PC.

	Process File	Geometrical Shape File
Lathe • Multi-axis machine	.WPL	.WSL
Machining center	.WPM	.WSM

2-2-10 Conversational Program Input Function

This function allows you to input conversational programs from a PC into MAPPS.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

This section explains the procedure for inputting conversational programs.

- 1) Select the communication target machine in the machine list display area.

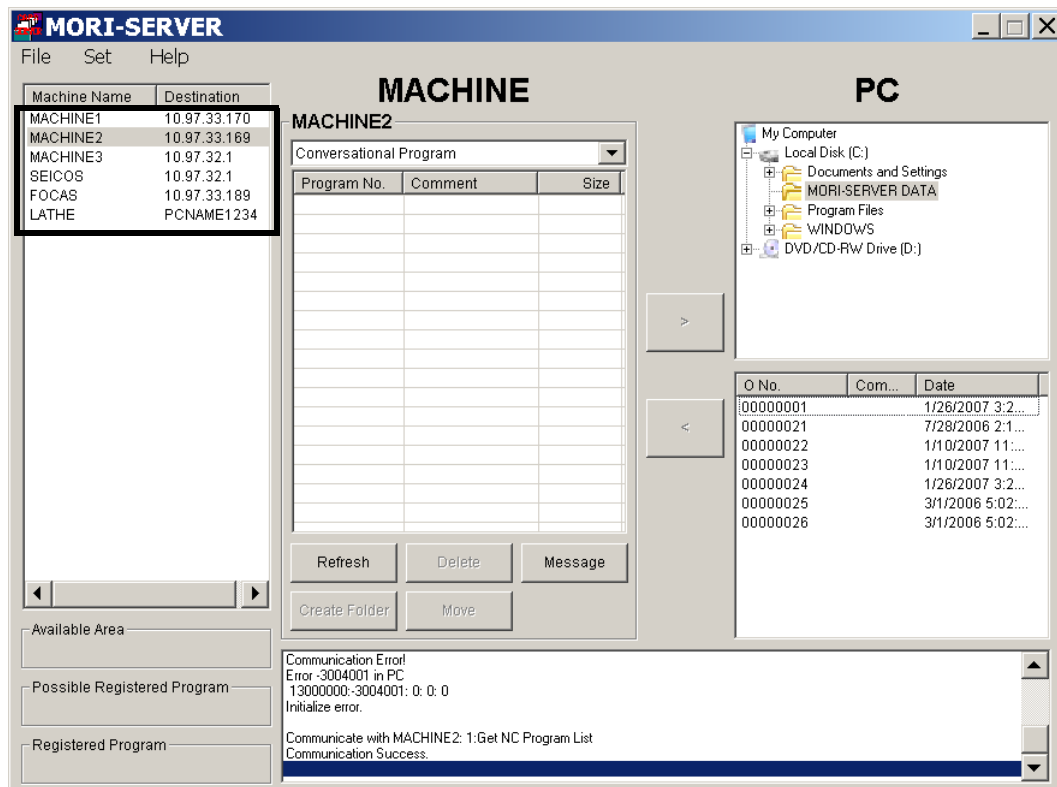


Fig. A-84

- 2) From the data selection combo box, select "Conversational Program".

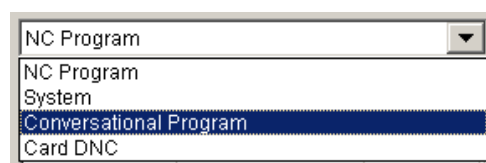


Fig. A-85

- 3) As shown in Fig. A-86, select the folder where the file to be input is located from the folder tree display area.

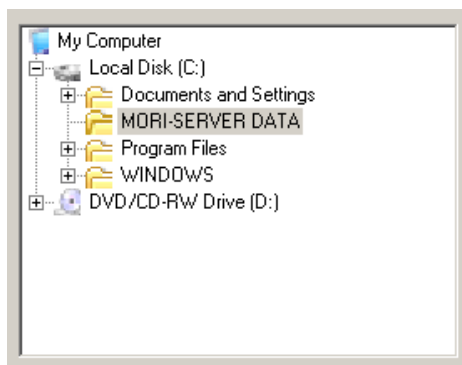


Fig. A-86

- 4) As shown in Fig. A-87, select the file to be input from the file list display area.

O No.	Com...	Date
00000001		1/26/2007 3:2...
00000021		7/28/2006 2:1...
00000022		1/10/2007 11:...
00000023		1/10/2007 11:...
00000024		1/26/2007 3:2...
00000025		3/1/2006 5:02:...
00000026		3/1/2006 5:02:...

Fig. A-87



1. Depending on the registered machine type, only the programs whose process files and geometrical shape files are stored in the target folder are displayed. If either the process or geometrical shape file for a program is lost or if the machine type registered for a program is not correct, the program is not displayed.

Monitor System	Machine Type	Process File	Geometrical Shape File
MAPPS	Lathe • Multi-axis machine	.PDL	.SDL
	Machining center	.PDM	.SDM
MAPPS II/III/IV	Lathe • Multi-axis machine	.WPL	.WSL
	Machining center	.WPM	.WSM

2. An asterisk "*" is added at the left of each MAPPS conversational program file name.
3. Multiple programs can be specified by using the same method as for the conversational program output function.

- 5) Click the  button.



If multiple program files are selected in step 4), the program files will be transmitted one by one. Therefore, a message to confirm the file transmission and a message to notify completion of the program input will be displayed for each file.

When input of all the selected programs is completed, 2-3-2-8 "Conversational Program List Acquisition Function" (page 132) is automatically executed to refresh the contents of the machine window.

2-2-11 Conversational Program Delete Function

This function is equivalent to the individual conversational program delete function that can be executed on the CAPS screen of MAPPS. This function allows you to delete conversational programs from MAPPS.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

This section explains the procedure for deleting conversational programs.

- 1) By following the procedure in 2-2-8 "Conversational Program List Acquisition Function" (page 93), display the list of conversational programs in MAPPS, which will serve as the output source, in the machine window (Fig. A-88).

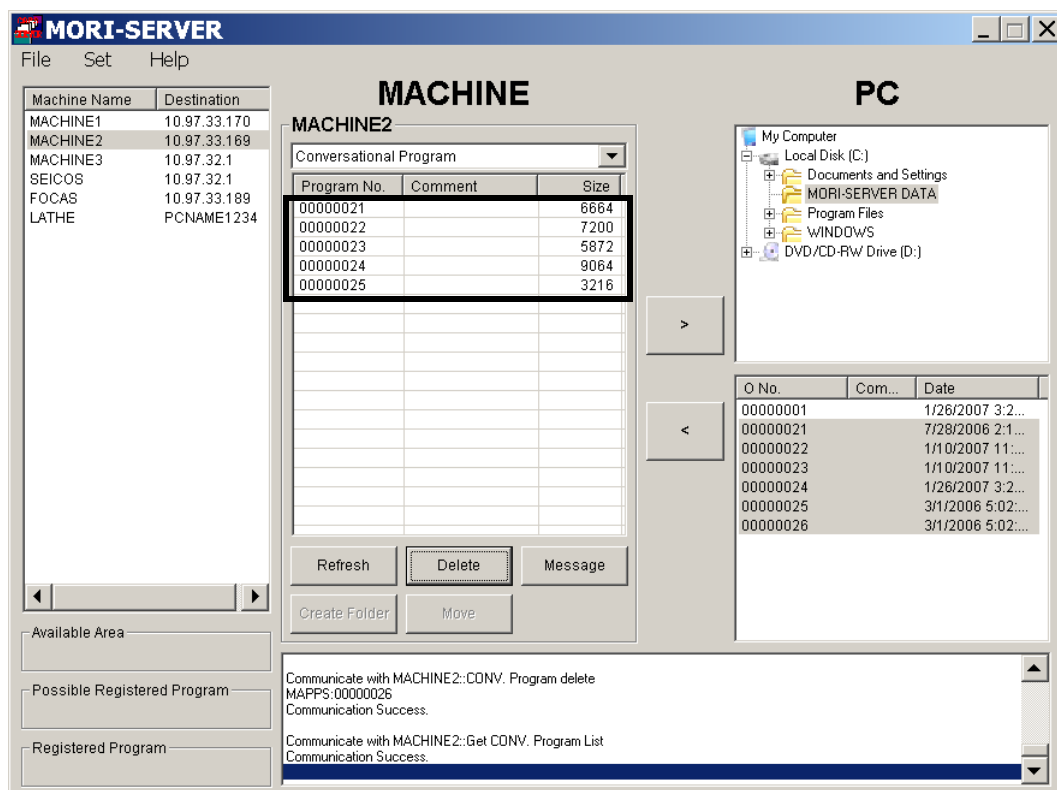


Fig. A-88

- 2) Select the program or programs to be deleted by clicking on them in the machine window
Fig. A-89.


[illegible]

Fig. A-89

- 3) Click the button.

A message asking you to confirm the deletion will appear (Fig. A-90).

- 4) To proceed with the deletion, click the [OK] button.

 To cancel deletion, click the [Cancel] button.

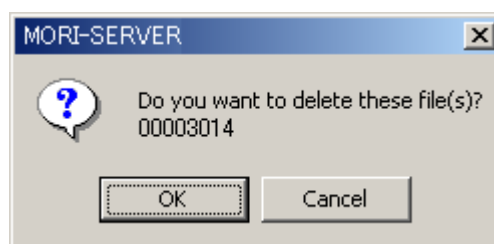


Fig. A-90

⌘ If multiple program files are selected in step 2), the program files will be deleted one by one. Therefore a message to confirm the file deletion and a message to notify completion of the NC program deletion will be displayed for each file.



When deletion of all the selected programs is completed, 2-2-8 "Conversational Program List Acquisition Function" (page 93) is automatically executed to refresh the contents of the machine window.

2-2-12 Tool File Output Function

Using this function, you can select one or more tool files stored in the target machine and output them to a PC.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

This section explains the procedure for outputting tool files.

- 1) Select the communication target machine in the machine list display area.

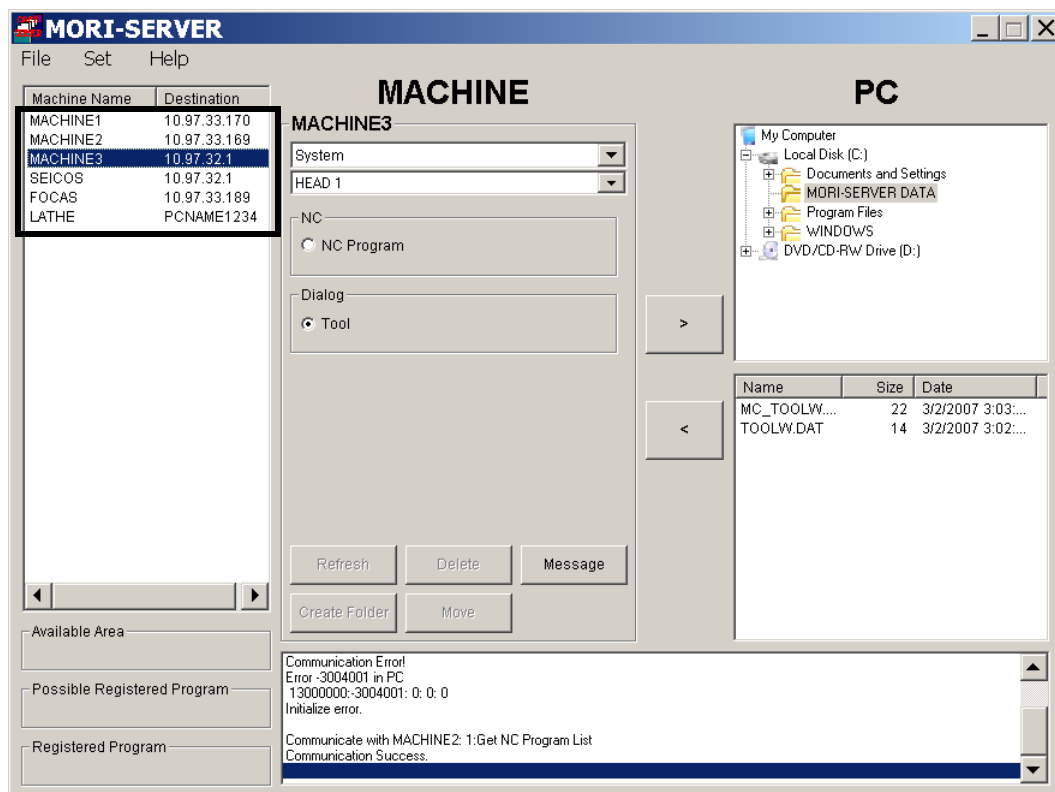


Fig. A-91

- 2) From the data selection combo box, select "System".

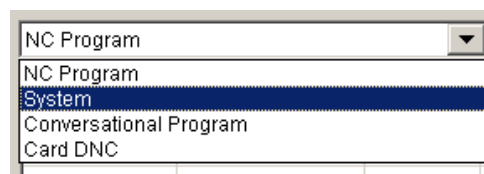


Fig. A-92

- 3) In the machine window (Fig. A-93), select the "Tool" radio button.

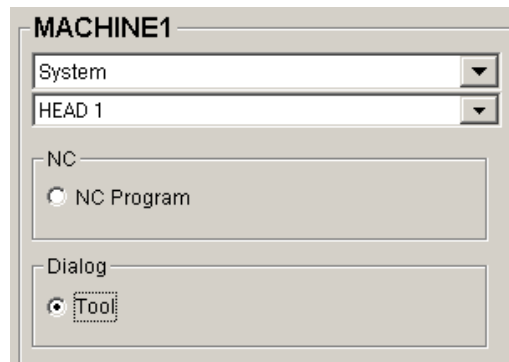


Fig. A-93

- 4) From the folder tree display area (Fig. A-94), select the target folder.

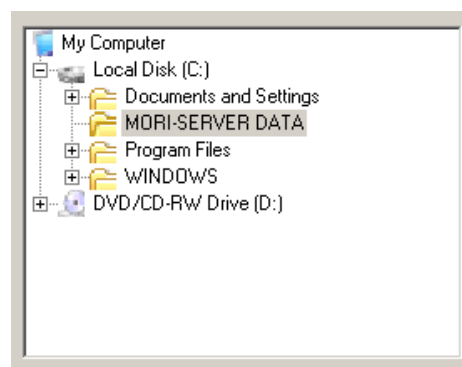


Fig. A-94

- 5) Click the  button.

The "File Name Input" dialog box appears (Fig. A-95).

- 6) Enter a filename of the file to be output in the textbox.

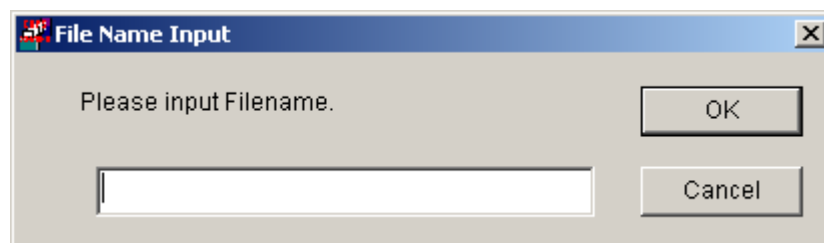


Fig. A-95



Regardless of the file name auto-creating function, the following code is suffixed to the file name of the output file.

	MAPPS	MAPPS II/III/IV
Tool file	Not supported	_TOOLW.DAT

7) When outputting tool files, click the [OK] button shown in Fig. A-95.



To cancel output, click the [Cancel] button.

2-2-13 Tool File Input Function

This function allows you to input tool files from a PC to MAPPS.



This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.

This section explains the procedure for inputting tool files.

1) Select the communication target machine in the machine list display area.

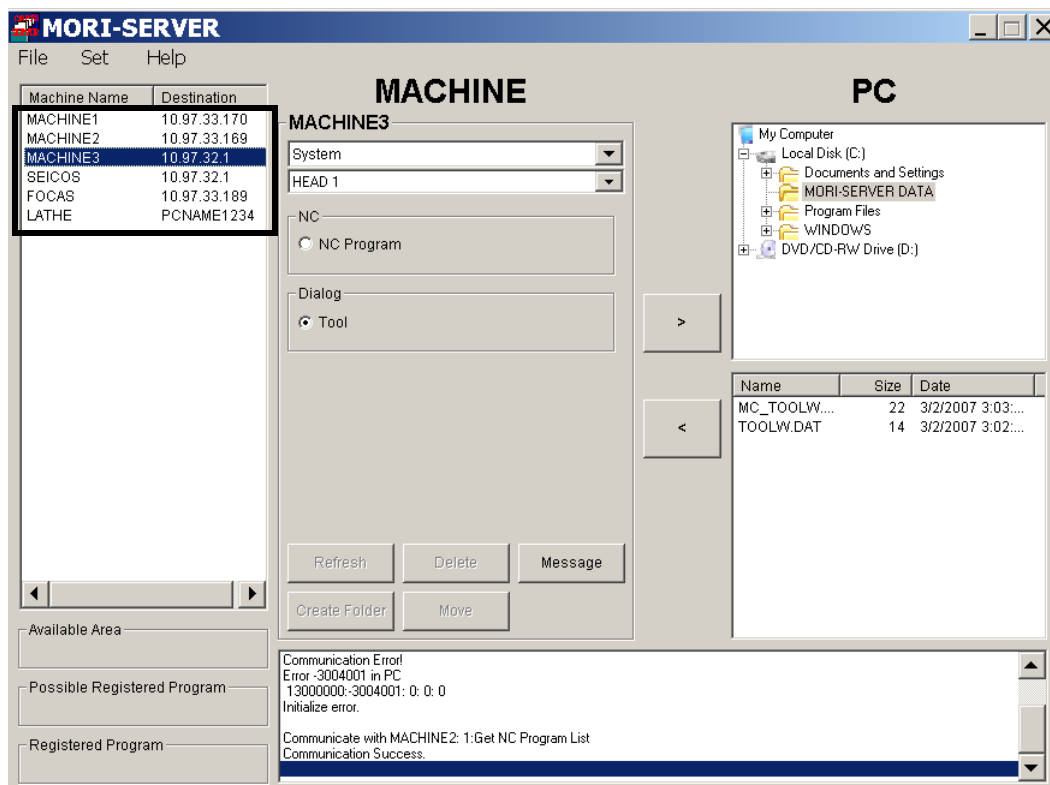


Fig. A-96

- 2) From the data selection combo box, select "System".

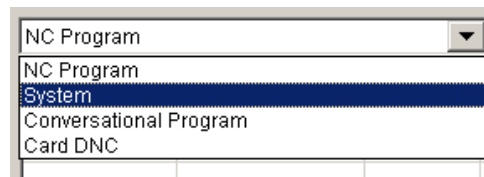


Fig. A-97

- 3) In the machine window (Fig. A-98), select the "Tool" radio button.

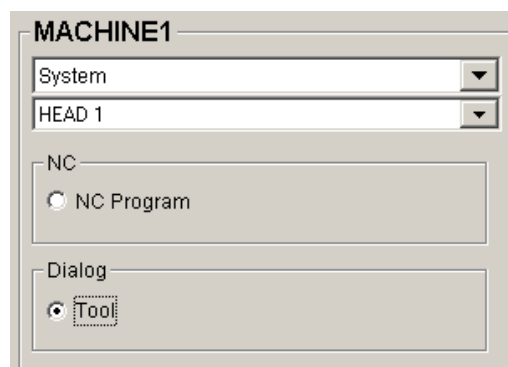


Fig. A-98

- 4) Select the folder where the source file is stored from the folder tree display area shown in Fig. A-99.

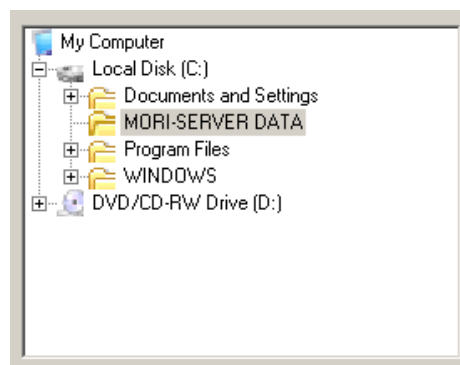
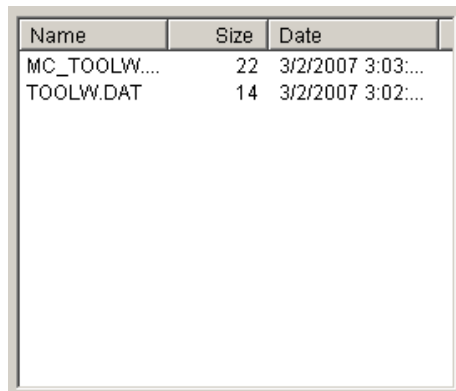


Fig. A-99

- 5) Select the files to be input in the file list display area as shown in Fig. A-100.



Name	Size	Date
MC_TOOLW...	22	3/2/2007 3:03:...
TOOLW.DAT	14	3/2/2007 3:02:...

Fig. A-100



The file name of a tool file must have the suffix "TOOL.DAT" for the MAPPS system or "TOOLW.DAT" for the MAPPS II/III/IV system. When MORI-SERVER outputs tool files, these suffixes are automatically added.



When saving the data in a memory card and writing it to MAPPS, add the suffix "TOOL.DAT" to a file name for the MAPPS system or "TOOLW.DAT" to a file name for the MAPPS II/III/IV system.



For details on tool files, refer to the MAPPS CONVERSATIONAL PROGRAMMING MANUAL.

- 6) Click the  button.

2-2-14 Card DNC/ESPRIT Area List Acquisition Function

MORI-SERVER provides a function for obtaining the file/folder information stored in the card DNC/ESPRIT area of the target machine and displaying it in the machine window at a PC.



1. This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.
2. Only when ESPRIT functions are enabled in MAPPS, you can access to the ESPRIT related folders.

This section explains the procedure for obtaining the card DNC/ESPRIT area list.

- 1) Select the communication target machine in the machine list display area.

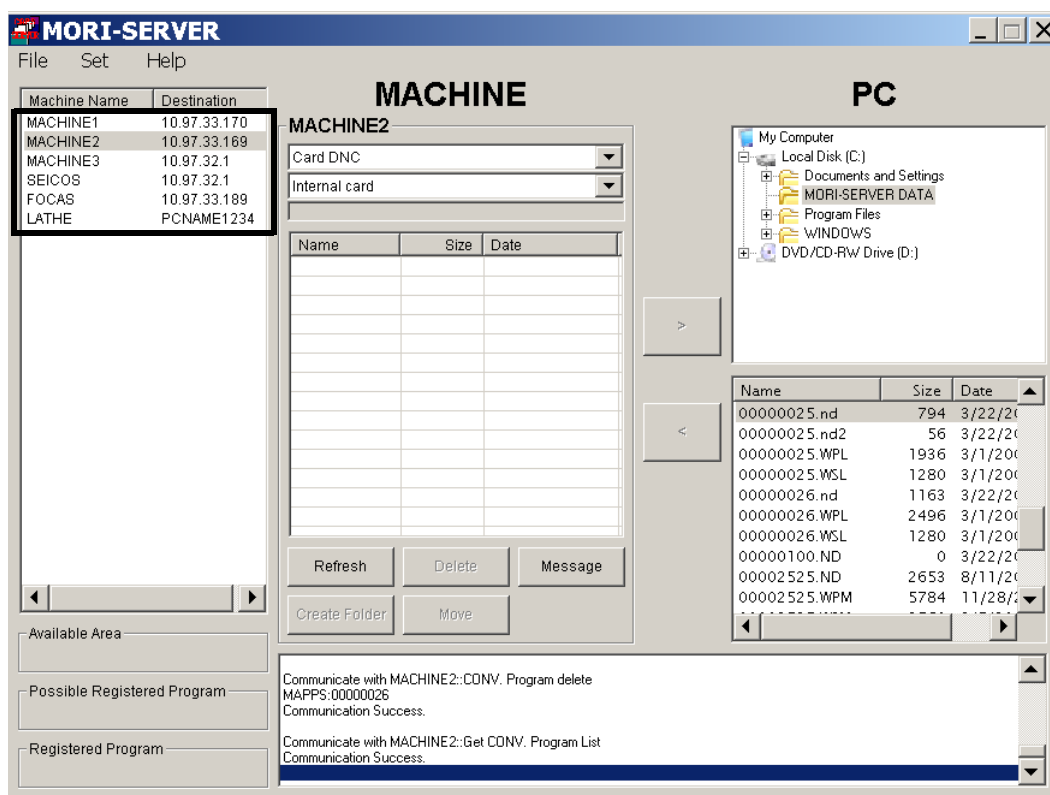


Fig. A-101

- 2) From the data selection combo box, select "Card DNC/ESPRIT".

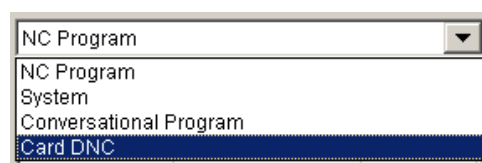


Fig. A-102

- 3) From the card selection combo box, select the card type to be used at the communication target.

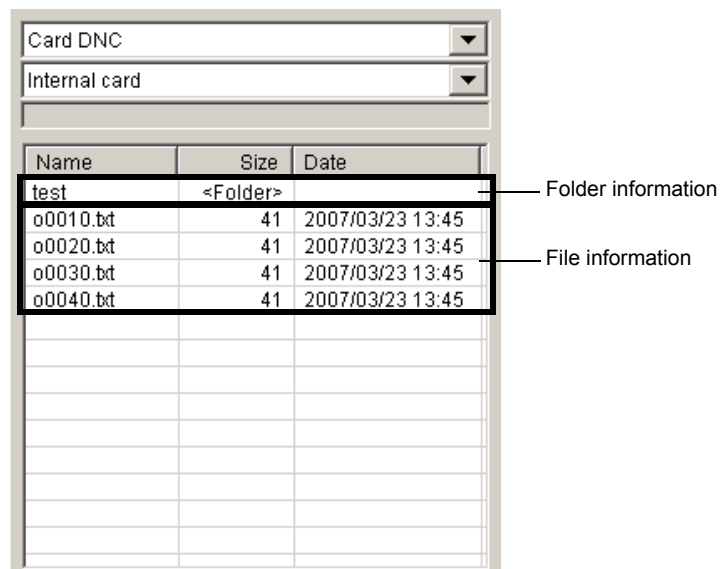


Fig. A-103

- 4) Click the  button.

Communication starts.

When communication is successful, the obtained file/folder information list is displayed in the machine window. For folder information, <Folder> is displayed in the "Size" field and no date is displayed.



The screenshot shows a window titled 'Card DNC' with a dropdown menu set to 'Internal card'. Below this is a table with three columns: 'Name', 'Size', and 'Date'. The table contains five rows of data. The first row, 'test', is highlighted with a black border and labeled 'Folder information'. The subsequent four rows, 'o0010.bt', 'o0020.bt', 'o0030.bt', and 'o0040.bt', are also highlighted with a black border and labeled 'File information'.

Name	Size	Date
test	<Folder>	
o0010.bt	41	2007/03/23 13:45
o0020.bt	41	2007/03/23 13:45
o0030.bt	41	2007/03/23 13:45
o0040.bt	41	2007/03/23 13:45

Fig. A-104

2-2-15 Card DNC/ESPRIT Area Communication Target Folder Move Function

MORI-SERVER provides a function for moving the folder for obtaining file/folder information in the card DNC/ESPRIT area of the target machine.



1. This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.
2. Only when ESPRIT functions are enabled in MAPPS, you can access to the ESPRIT related folders.

This section explains the procedure for moving the card DNC/ESPRIT area communication target folder.

- 1) By following the procedure in 2-2-14 "Card DNC/ESPRIT Area List Acquisition Function" (page 106), display the list of file/folder information in the machine window (Fig. A-105).

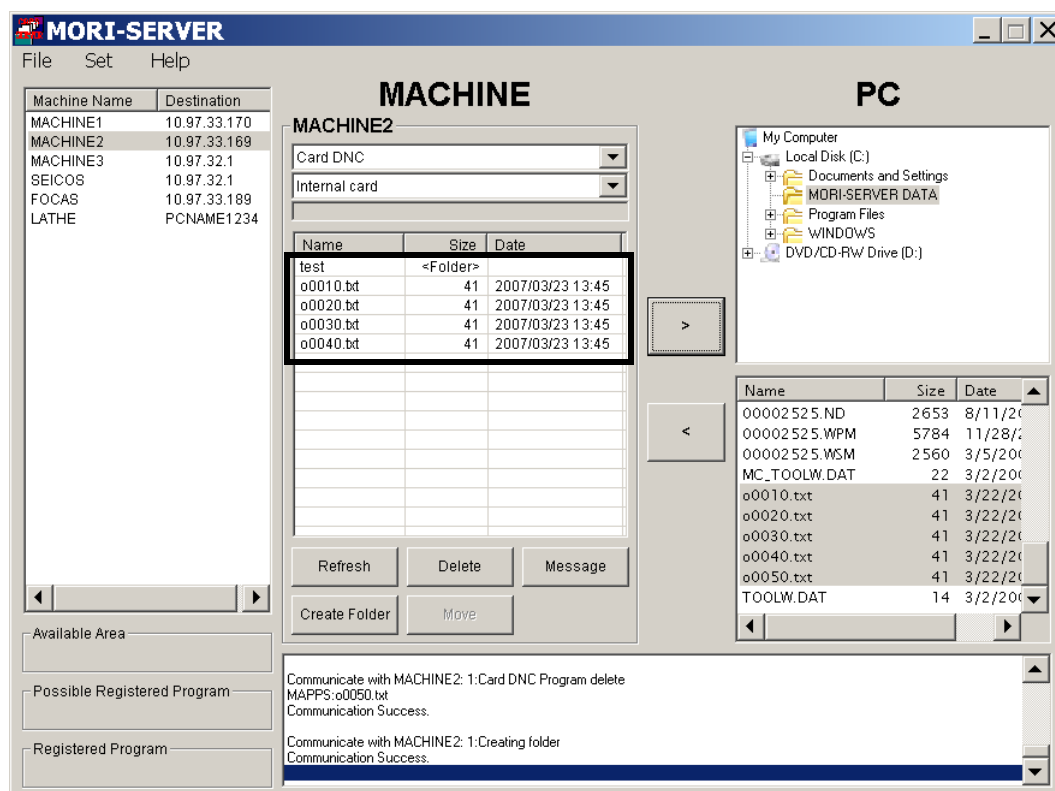
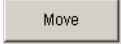


Fig. A-105

- 2) From the machine window (Fig. A-106), select one target folder, and click the  button.

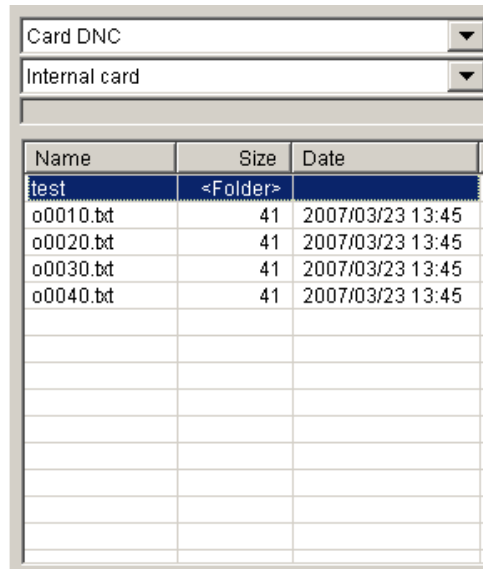
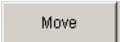
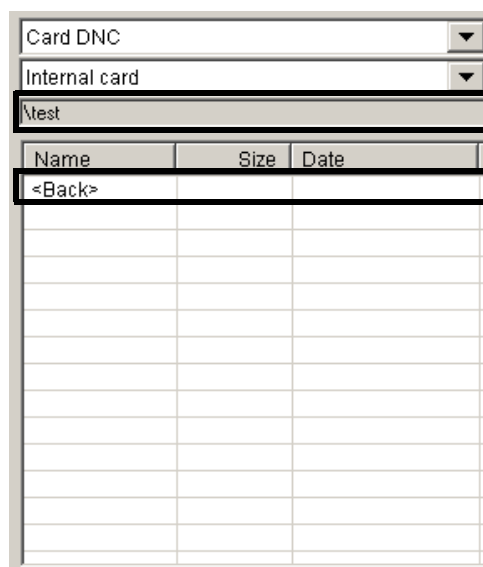


Fig. A-106



Instead of clicking the  button, you can double-click on the target folder name.

When communication is successful, the folder currently being accessed is displayed in the machine window (Fig. A-107), and the list of files and folders at the target location are displayed in the machine window.



Communication target folder name

Moves the folder one level higher in the hierarchy.

Fig. A-107



If you select <Back> for moving the folder, the folder moves one level higher in the hierarchy.

2-2-16 Card DNC/ESPRIT Folder Create Function

MORI-SERVER provides a function for creating a new folder in the card DNC/ESPRIT area of the target machine.



1. This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.
2. This function is not available for the ESPRIT root folder.
3. Only when ESPRIT functions are enabled in MAPPS, you can access to the ESPRIT related folders.

This section explains the procedure for creating a new card DNC/ESPRIT folder.

- 1) By following the procedure in 2-2-14 "Card DNC/ESPRIT Area List Acquisition Function" (page 106) and 2-2-15 "Card DNC/ESPRIT Area Communication Target Folder Move Function" (page 108), display the list of file/folder information in the folder where a new folder is to be created.

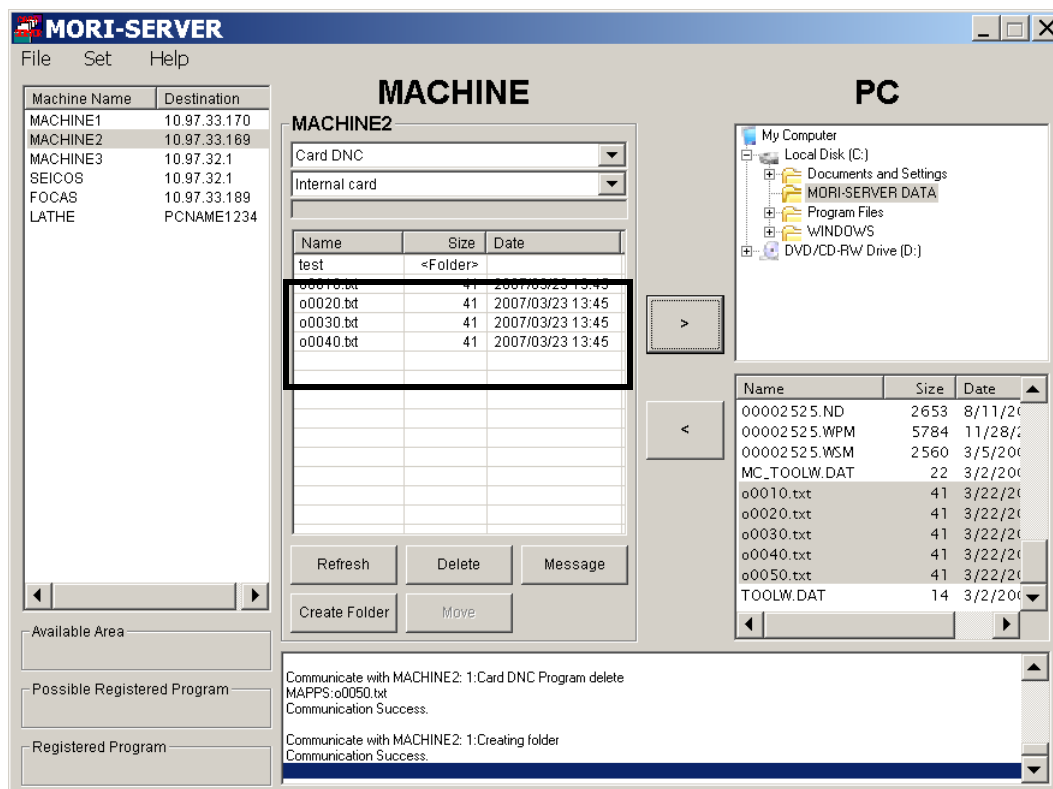
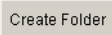


Fig. A-108



In the case of a user area, a new folder can only be created in the highest level of the hierarchy in the machine.

- 2) Click the  button.

As shown in Fig. A-109, the "Folder Name Input" dialog box is displayed.

- 3) Enter the folder name of the folder to be output in the textbox.

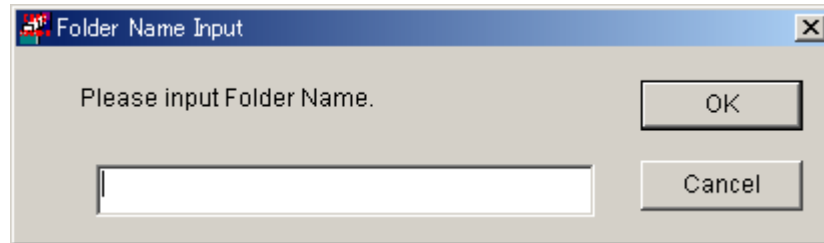


Fig. A-109

- 4) To create a folder, click the [OK] button shown in Fig. A-109.



To cancel creation, click the [Cancel] button.

When folder creation is successfully completed, 2-2-14 "Card DNC/ESPRIT Area List Acquisition Function" (page 106) is automatically executed to refresh the contents of the card DNC/ESPRIT area list display area.

2-2-17 Card DNC/ESPRIT Area File/Folder Output Function

Using this function, you can select one or more files stored in the card DNC/ESPRIT area of the target machine and output them to a PC.



1. This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.
2. Only when ESPRIT functions are enabled in MAPPS, you can access to the ESPRIT related folders.

This section explains the procedure for outputting files and folders to the card DNC/ESPRIT area.

- 1) By following the procedure in 2-2-14 "Card DNC/ESPRIT Area List Acquisition Function" (page 106) and 2-2-15 "Card DNC/ESPRIT Area Communication Target Folder Move Function" (page 108), display the list of file/folder information of the folder, where the file or folder to be output is located.

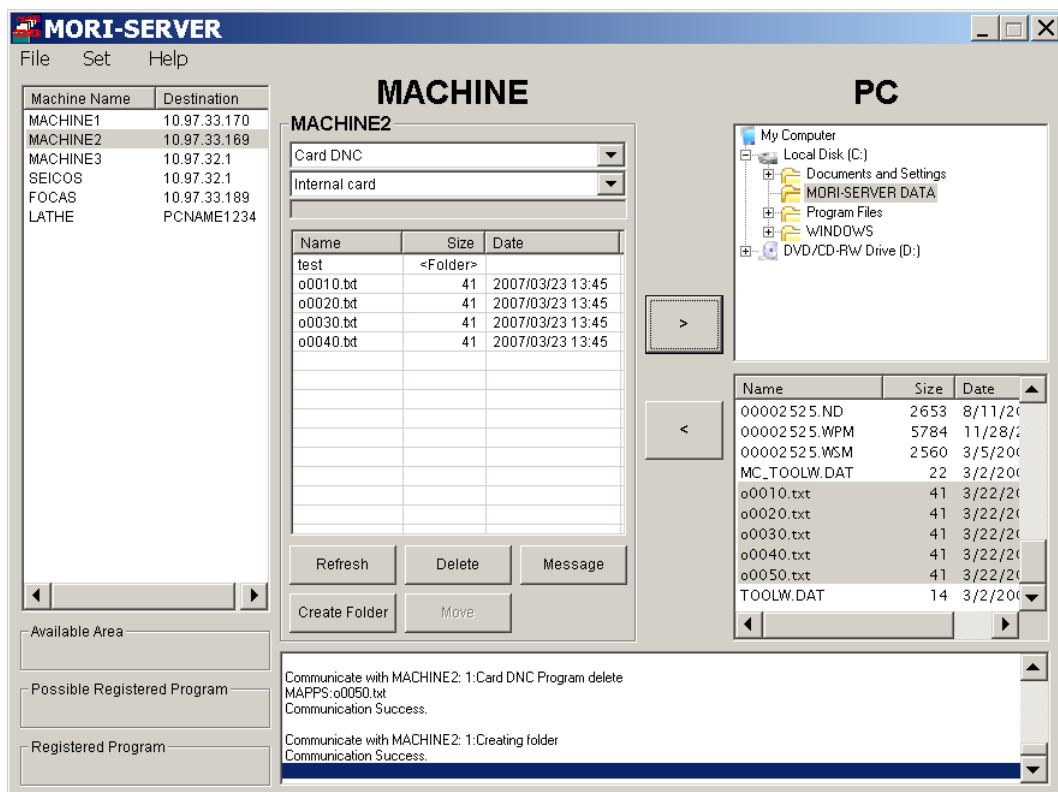


Fig. A-110

- 2) Select the file(s) or folder(s) to be output by clicking on them in the machine window (Fig. A-111).

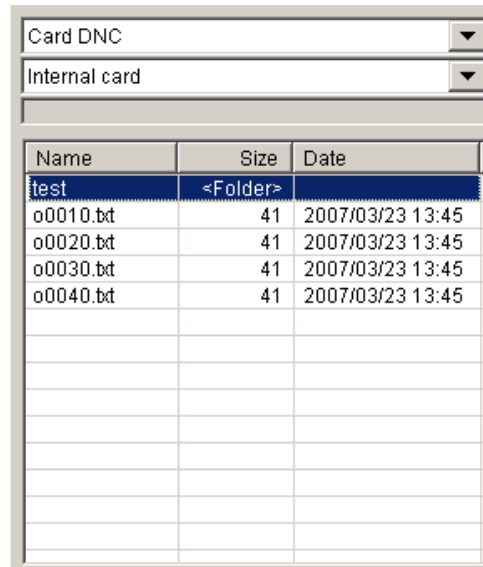


Fig. A-111

- 3) From the folder tree display area (Fig. A-112), select the target folder.

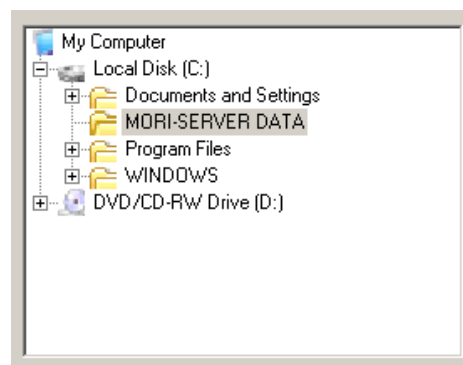


Fig. A-112

- 4) Click the  button.

2-2-18 Card DNC/ESPRIT Area File Input Function

This function allows you to input files from a personal computer into the card DNC/ESPRIT area of MAPPS.



1. This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.
2. This function is not available for the ESPRIT root folder.
3. Only when ESPRIT functions are enabled in MAPPS, you can access to the ESPRIT related folders.
4. Do not open ESPRIT related data which is being input or output on MAPPS. This may cause abnormal termination.

This section explains the procedure for inputting files into the card DNC/ESPRIT area.

- 1) Select the communication target machine in the machine list display area.
- 2) From the data selection combo box, select "Card DNC/ESPRIT".
- 3) If necessary, by following the procedure in 2-2-15 "Card DNC/ESPRIT Area Communication Target Folder Move Function" (page 108), move to the target folder to the folder where the file is to be input.

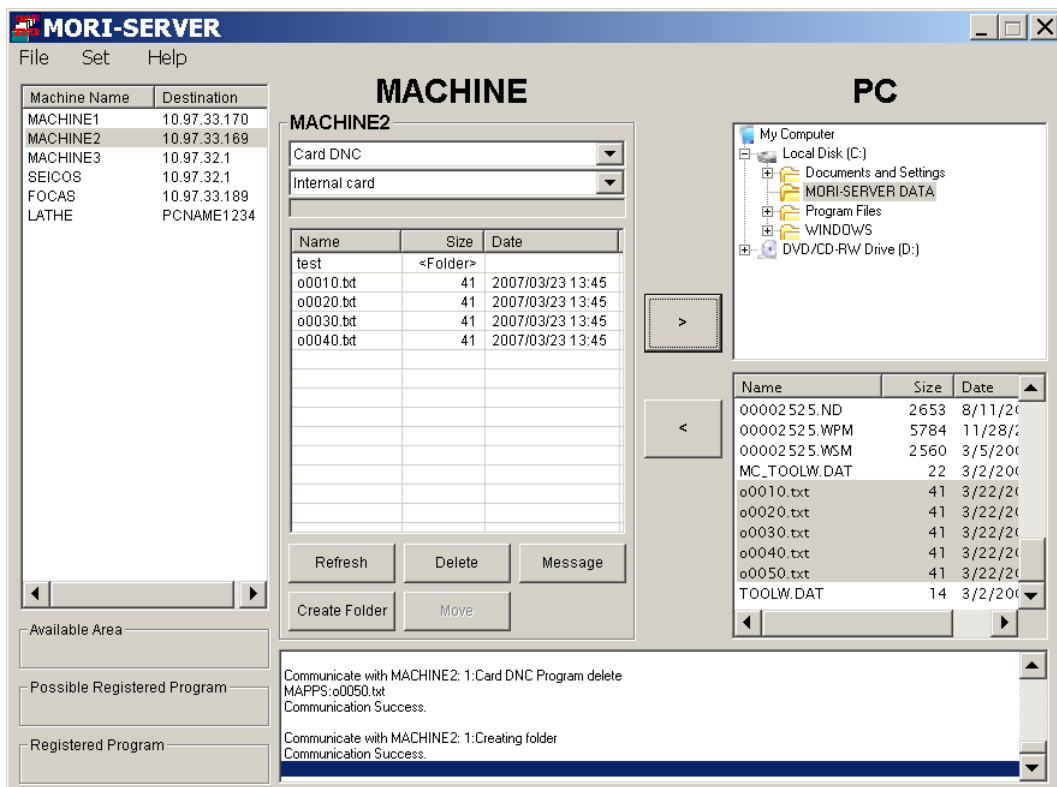


Fig. A-113

- 4) In folder tree display area Fig. A-114, select the source folder.

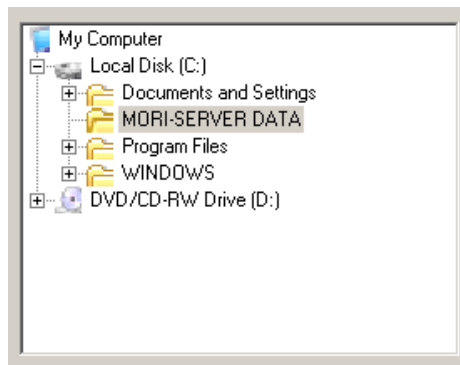


Fig. A-114

- 5) The file to be input is selected in the file list display area, as shown in Fig. A-115.

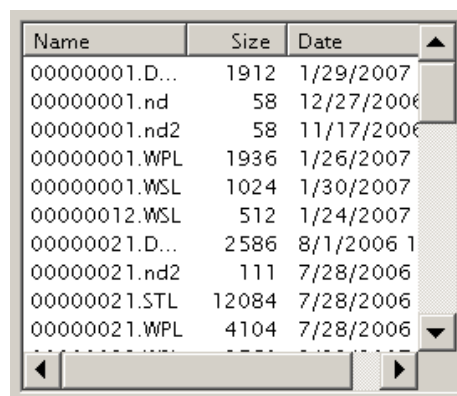


Fig. A-115



Multiple files can be specified by using the same method as for the card DNC/ESPRIT area file/folder output function.



Files with the following extensions cannot be input.

DLL, EXE, SYS, COM, CFG, INI, BAT, BIN, AUX

- 6) Click the  button.

When input of all the selected files is completed, 2-2-14 "Card DNC/ESPRIT Area List Acquisition Function" (page 106) is automatically executed to refresh the contents of the machine window.



Do not open ESPRIT related data which is being input or output on MAPPS. This may cause abnormal termination.

2-2-19 Card DNC/ESPRIT Area File/Folder Delete Function

This function allows you to delete files or folders from the card DNC/ESPRIT area of the machine.



1. This function is available when MAPPS (MAPPS or MAPPS II/III/IV) is selected for the I/O device.
2. This function is not available for the ESPRIT root folder.
3. Only when ESPRIT functions are enabled in MAPPS, you can access to the ESPRIT related folders.

This section explains the procedure for deleting files or folders from the card DNC/ESPRIT area.

- 1) By following the procedure in 2-2-14 "Card DNC/ESPRIT Area List Acquisition Function" (page 106) and 2-2-15 "Card DNC/ESPRIT Area Communication Target Folder Move Function" (page 108), display the list of file/folder information in the machine window.

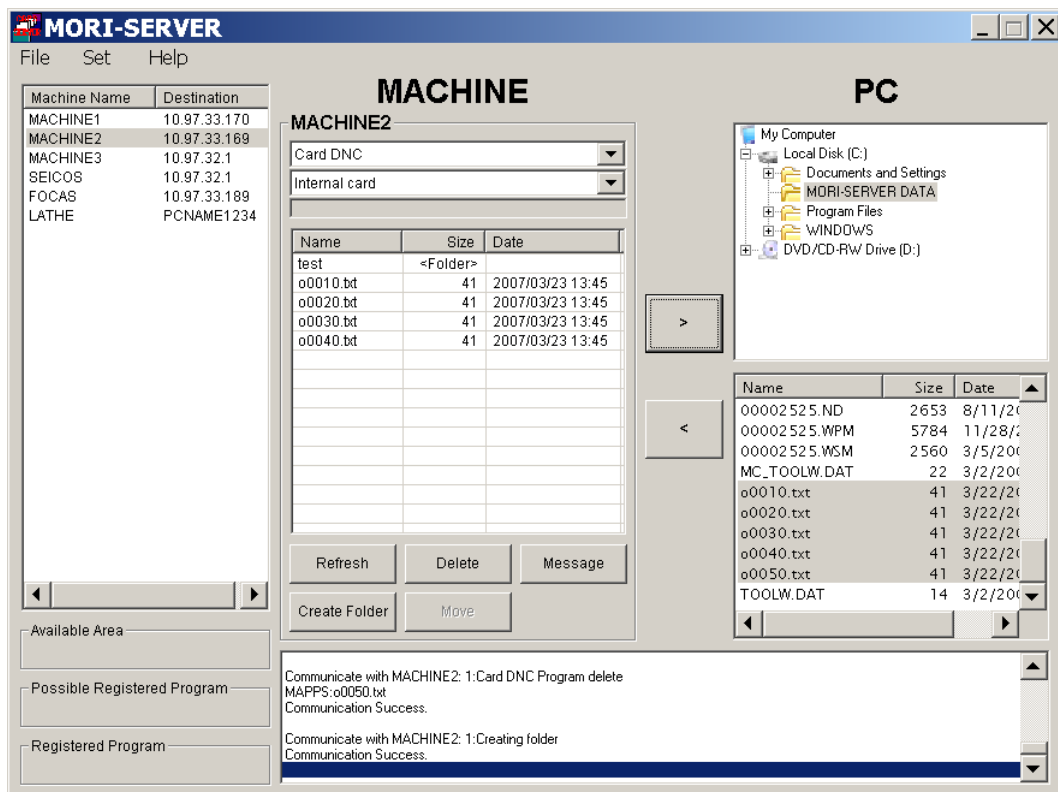
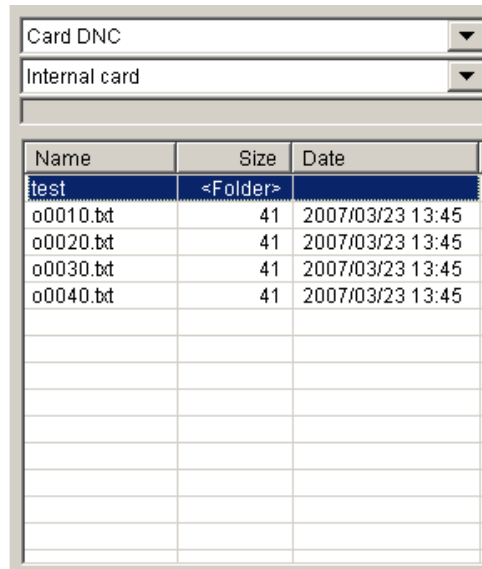


Fig. A-116


- 2) Select the file(s) or folder(s) to be deleted by clicking on them in the machine window
Fig. A-117.



The screenshot shows a software window titled 'Card DNC'. At the top, there are two dropdown menus: the first is set to 'Card DNC' and the second to 'Internal card'. Below these is a table with three columns: 'Name', 'Size', and 'Date'. The table contains the following entries:

Name	Size	Date
test	<Folder>	
o0010.bt	41	2007/03/23 13:45
o0020.bt	41	2007/03/23 13:45
o0030.bt	41	2007/03/23 13:45
o0040.bt	41	2007/03/23 13:45

Fig. A-117

- 3) Click the  button.



The file presently selected at MAPPS or the folder that contains the file presently selected at MAPPS cannot be deleted.

When deletion of all the selected files or folders is completed, 2-2-14 "Card DNC/ESPRIT Area List Acquisition Function" (page 106) is automatically executed to refresh the contents of the machine window.

2-2-20 Data Server File List Acquisition Function

This function acquires the file and folder information in the data server and shows it in the machine information display area at the PC.

The procedure for acquiring the list of files in the data server is described below.

- 1) Select the communication target machine in the machine list display area.

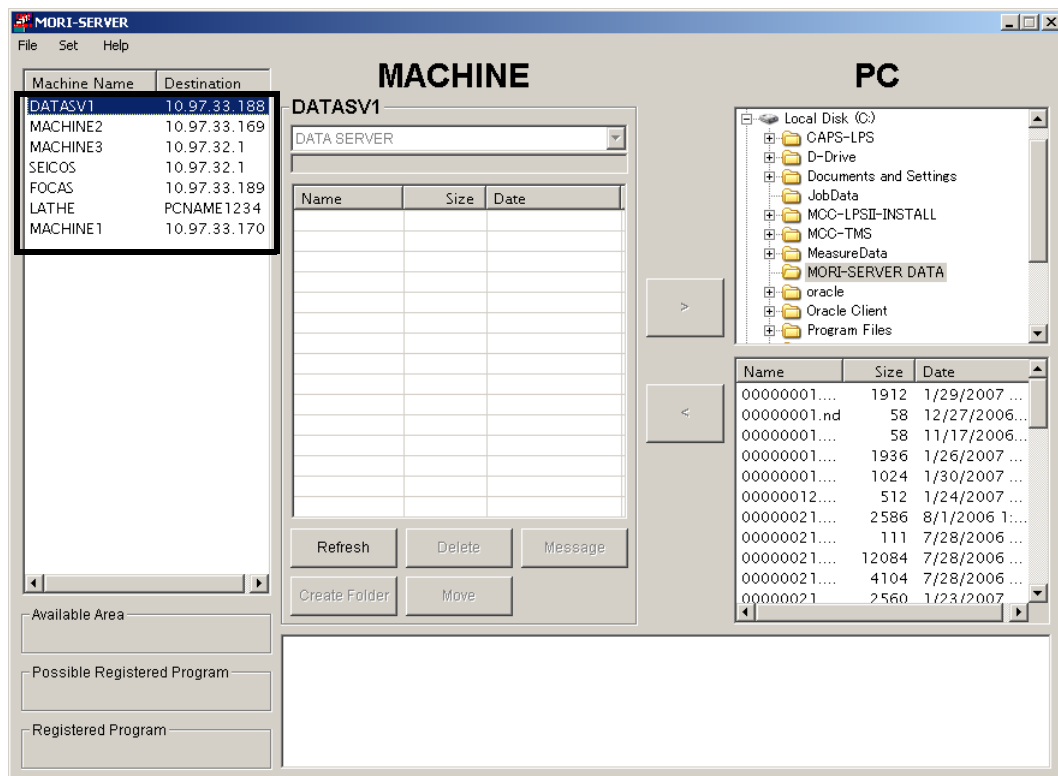


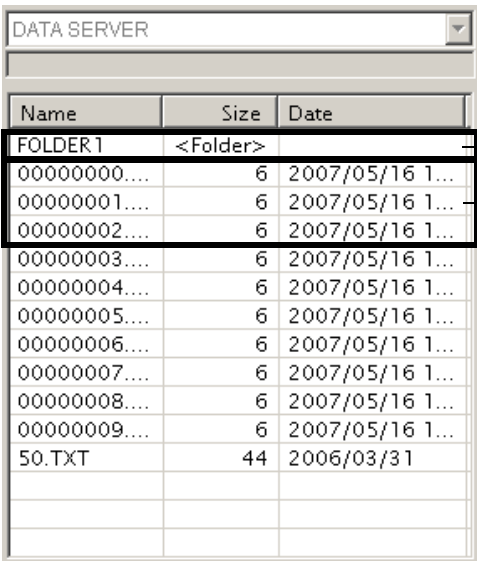
Fig. A-118

- 2) Click the  button.

Alternatively, double click the communication target in the machine list display area.

Communication starts.

When communication is successful, the obtained file/folder information list is displayed in the machine information display area (Fig. A-119). For folder information, <Folder> is displayed in the "Size" field and no date is displayed in the "Date".



Name	Size	Date
FOLDER1	<Folder>	
00000000....	6	2007/05/16 1...
00000001....	6	2007/05/16 1...
00000002....	6	2007/05/16 1...
00000003....	6	2007/05/16 1...
00000004....	6	2007/05/16 1...
00000005....	6	2007/05/16 1...
00000006....	6	2007/05/16 1...
00000007....	6	2007/05/16 1...
00000008....	6	2007/05/16 1...
00000009....	6	2007/05/16 1...
50.TXT	44	2006/03/31

Fig. A-119



Depending on the FTP specifications, if the last update date was a year or longer ago, the year of the update may not be displayed correctly, or the time may not be displayed correctly.

2-2-21 Data Server Communication Target Folder Move Function

This function makes it possible to move folders in the connected data server.

The procedure for moving folders in the data server is described below.

- 1) By following the procedure in 2-2-20 "Data Server File List Acquisition Function" (page 118), display the list of file/folder information in the machine information display area (Fig. A-120).

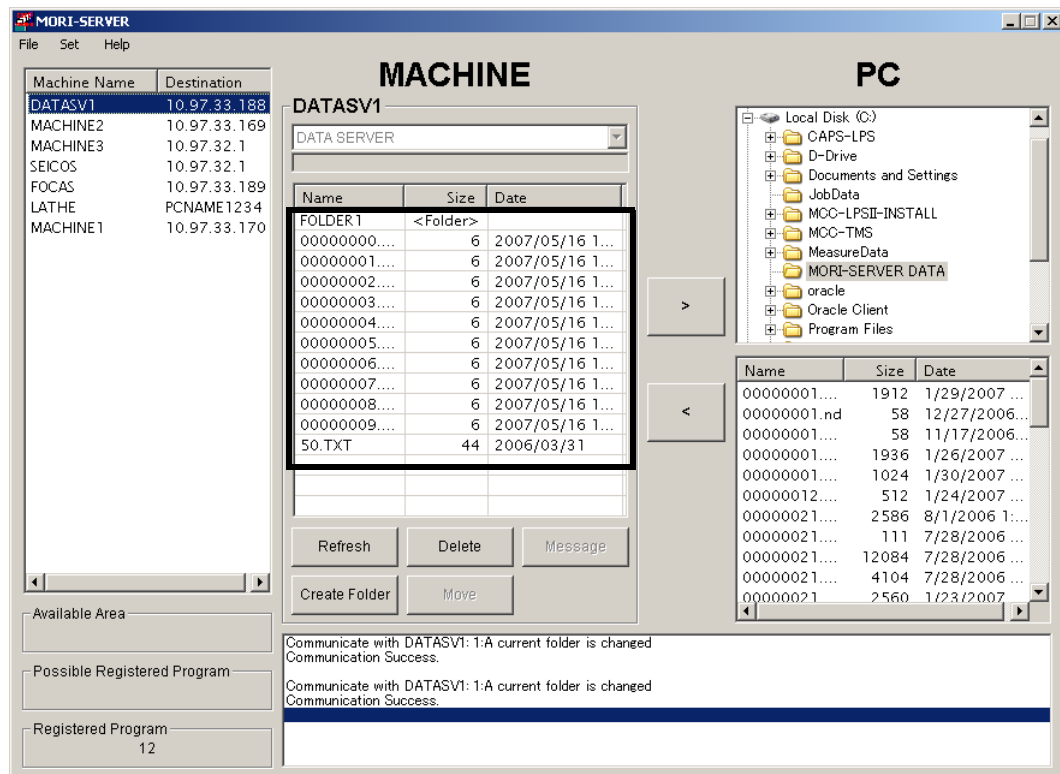


Fig. A-120



If you select <Back> for moving the folder, the folder moves one level higher in the hierarchy.

2-2-22 Data Server Folder Create Function

This function allows you to create a new folder in the connected data server.

The procedure for creating a folder in the data server is described below.

- 1) By following the procedure in 2-2-20 "Data Server File List Acquisition Function" (page 118) and 2-2-21 "Data Server Communication Target Folder Move Function" (page 120), display the list of file/folder information in the folder where a new folder is to be created.

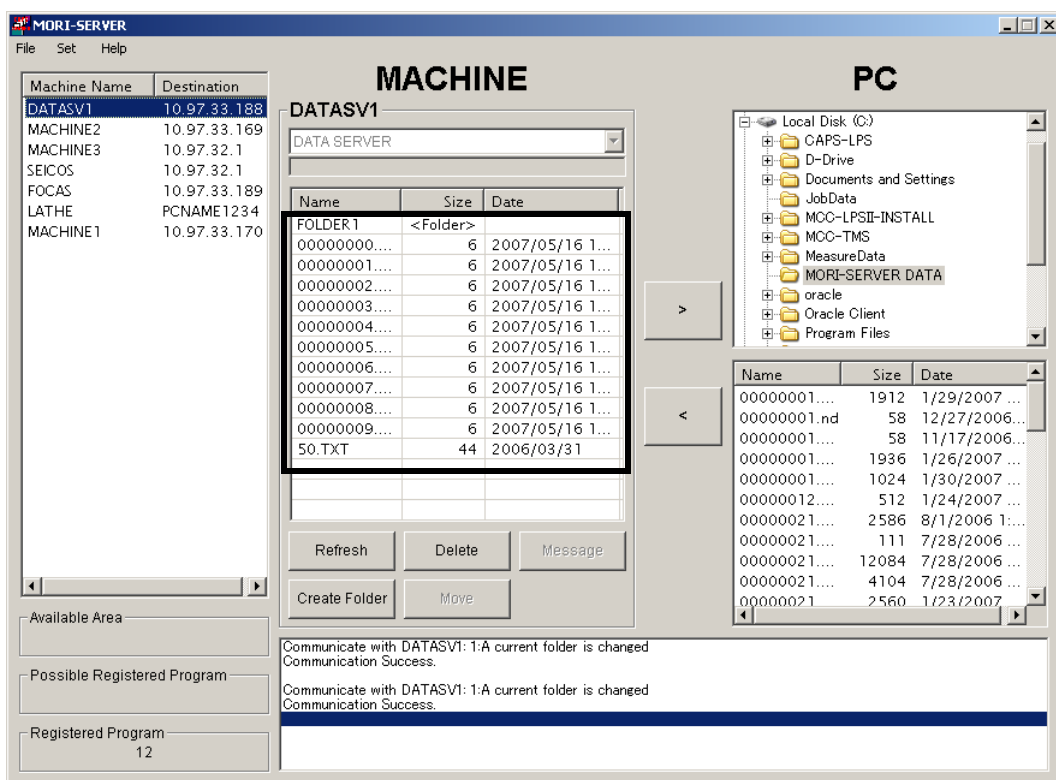
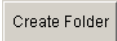


Fig. A-123

- 2) Click the  button in Fig. A-123.

As shown in Fig. A-124, the "Folder Name Input" dialog box is displayed.

- 3) Enter the folder name of the folder to be output in the textbox.



Fig. A-124

- 4) To create a folder, click the [OK] button shown in Fig. A-124.



To cancel creation, click the [Cancel] button.

On completion of folder creation, 2-2-20 "Data Server File List Acquisition Function" (page 118) is automatically executed to refresh the display of the data server list.

2-2-23 Data Server File/Folder Output Function

This function enables you to select a single file or multiple files in the data server and output them to the PC.

The procedure for outputting files/folders in the data server is described below.

- 1) By following the procedure in 2-2-20 "Data Server File List Acquisition Function" (page 118) and 2-2-21 "Data Server Communication Target Folder Move Function" (page 120), display the list of file/folder information of the folder where the file or folder to be output is located.

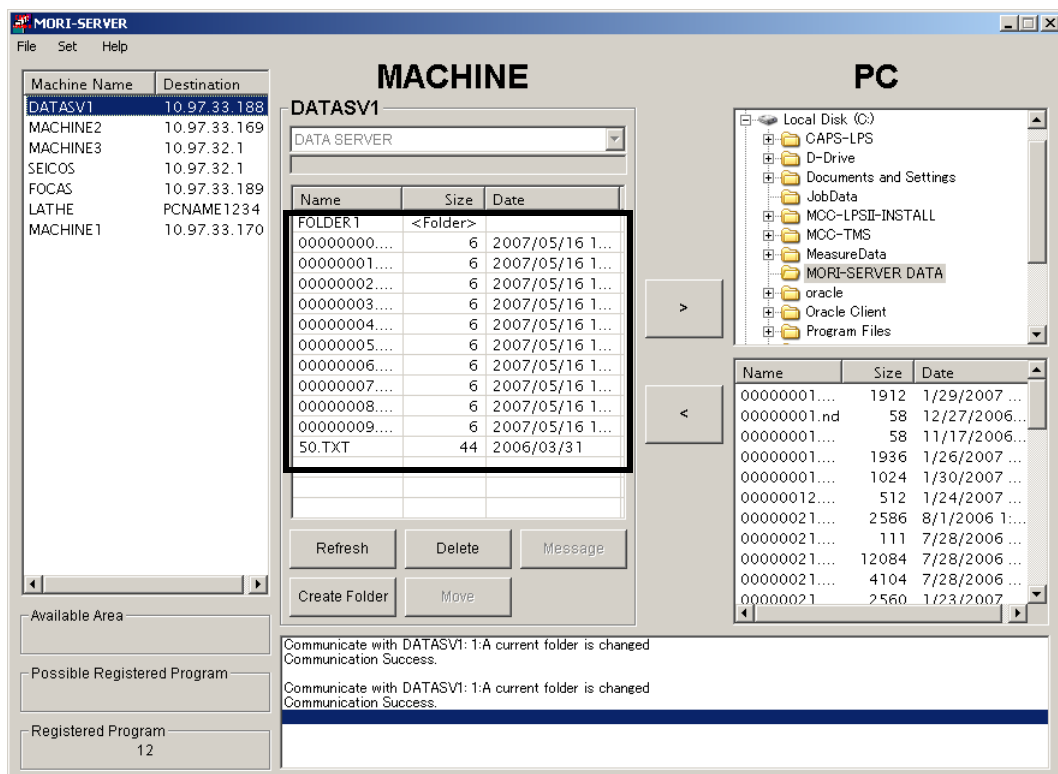
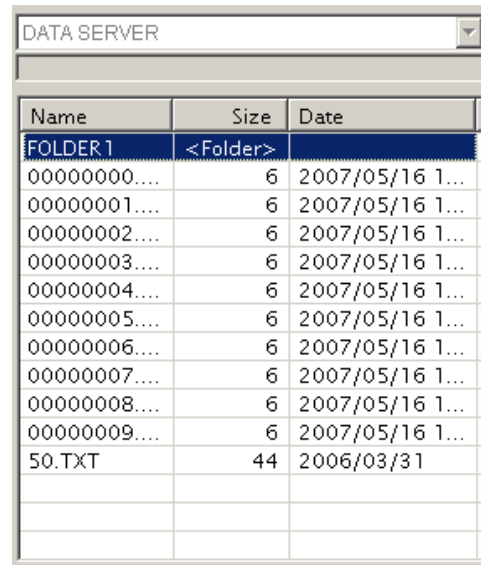


Fig. A-125

- 2) Select the file(s) or folder(s) to be output by clicking on them in the machine information display area (Fig. A-126).



The screenshot shows a window titled "DATA SERVER" with a dropdown menu. Below the title bar is a table with three columns: "Name", "Size", and "Date". The table contains the following data:

Name	Size	Date
FOLDER1	<Folder>	
00000000....	6	2007/05/16 1...
00000001....	6	2007/05/16 1...
00000002....	6	2007/05/16 1...
00000003....	6	2007/05/16 1...
00000004....	6	2007/05/16 1...
00000005....	6	2007/05/16 1...
00000006....	6	2007/05/16 1...
00000007....	6	2007/05/16 1...
00000008....	6	2007/05/16 1...
00000009....	6	2007/05/16 1...
50.TXT	44	2006/03/31

Fig. A-126

- 3) From the folder tree display area (Fig. A-127), select the target folder.

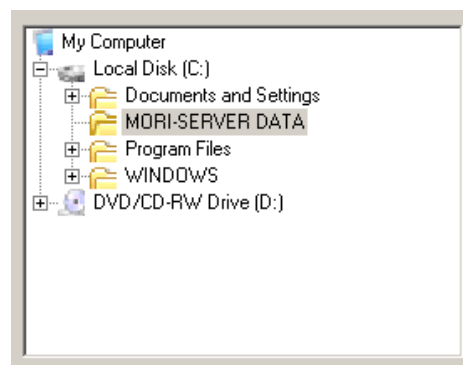


Fig. A-127

- 4) Click the  button.

The selected file or folder will be output to the specified folder in the specified PC.

2-2-24 Data Server File Input Function

This function enables you to input files from the PC to the data server.

The procedure for inputting files to the data server is described below.

- 1) Select the communication target in the machine list display area.
- 2) If necessary, by following the procedure in 2-2-21 "Data Server Communication Target Folder Move Function" (page 120), move to the target folder to the folder where the file is to be input.

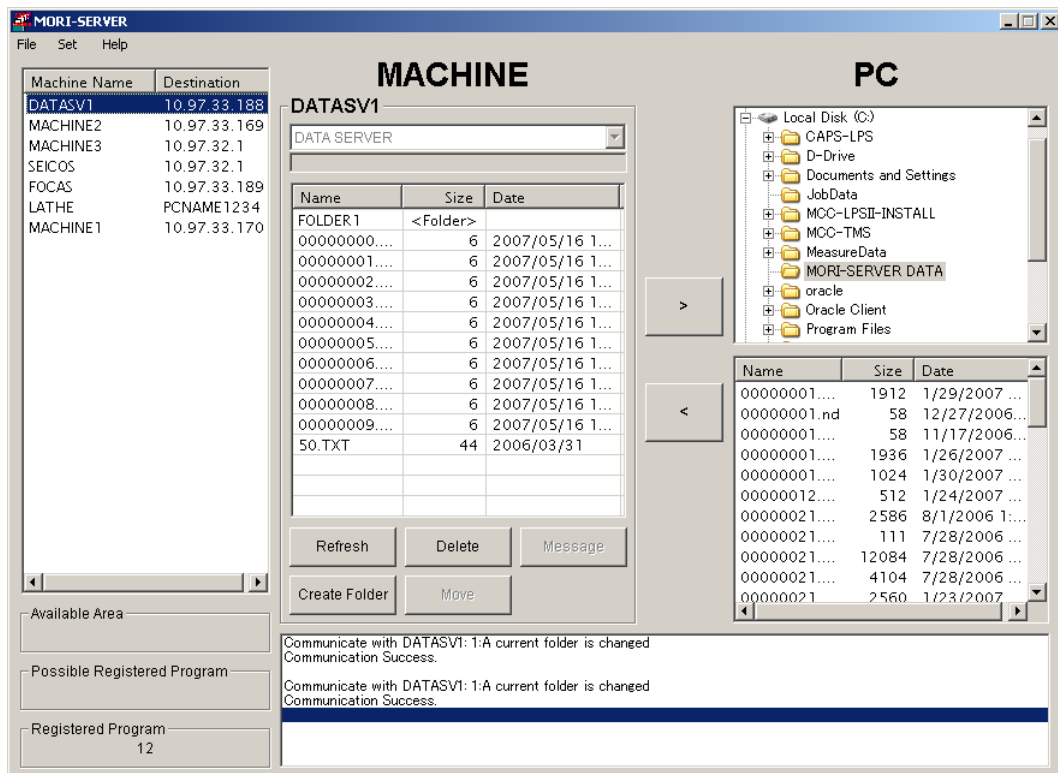


Fig. A-128

- 3) In the Folder tree display area Fig. A-129, select the source folder.

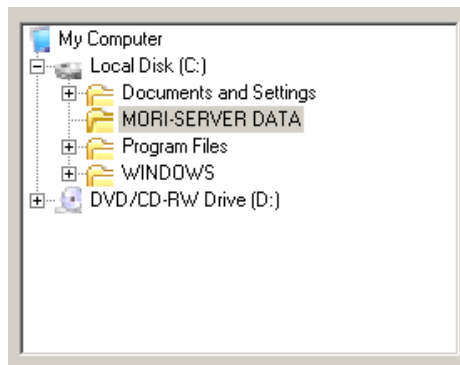


Fig. A-129

- 4) The file to be input is selected in the file list display area, as shown in Fig. A-130.

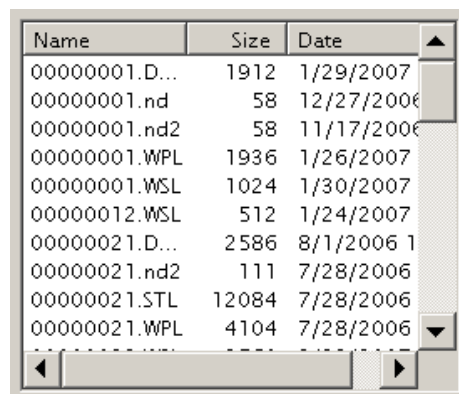


Fig. A-130



Multiple files can be specified by using the same method as for the card DNC/ESPRIT area file/folder output function.

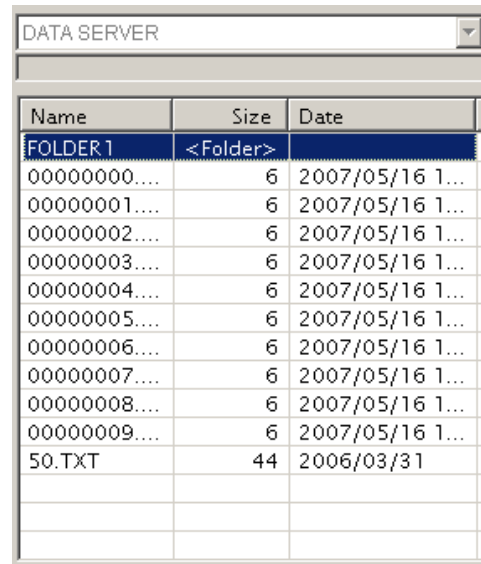


Files with the following extensions cannot be input.
DLL, EXE, SYS, COM, CFG, INI, BAT, BIN, AUX

- 5) Click the  button.

On completion of file input to the data server, 2-2-20 "Data Server File List Acquisition Function" (page 118) is automatically executed to refresh the contents of the machine window.

- 2) Select the file(s) or folder(s) to be deleted by clicking on them in the machine information display area Fig. A-132.



Name	Size	Date
FOLDER1	<Folder>	
00000000....	6	2007/05/16 1...
00000001....	6	2007/05/16 1...
00000002....	6	2007/05/16 1...
00000003....	6	2007/05/16 1...
00000004....	6	2007/05/16 1...
00000005....	6	2007/05/16 1...
00000006....	6	2007/05/16 1...
00000007....	6	2007/05/16 1...
00000008....	6	2007/05/16 1...
00000009....	6	2007/05/16 1...
50.TXT	44	2006/03/31

Fig. A-132

- 3) Click the  button.



The file presently selected at MAPPS or the folder that contains the file presently selected at MAPPS cannot be deleted.

When deletion of all the selected files or folders is completed, 2-2-20 "Data Server File List Acquisition Function" (page 118) is automatically executed to refresh the contents of the machine window.

2-3 Communication Interlocks

MORI-SERVER provides interlocks on communications at the MAPPS side that can reject a communication or cause it to fail.

2-3-1 Common Interlock Options

The common interlocks provide the following options that are independent of the commands communicated by MORI-SERVER.

2-3-1-1 Main Function OFF

When "INVALID" is set for "MAIN FUNCTION" on the MORI-SERVER FUNCTION BASIC SETTING screen (page 64 (1-4-2-3)) at MAPPS, communications from a personal computer are rejected.

2-3-1-2 IP Address Verification

When "VALID" is set for "IP ADDRESS AUTHORIZATION FUNCTION" on the MORI-SERVER FUNCTION BASIC SETTING screen (page 64 (1-4-2-3)) at MAPPS, if communications are permitted then communications from a personal computer other than the one with the registered IP address are rejected.

2-3-1-3 User Verification

When "VALID" is set for "USER AUTHORIZATION FUNCTION" on the MORI-SERVER FUNCTION BASIC SETTING screen (page 64 (1-4-2-3)) at MAPPS, if the user ID and password sent from the personal computer during communications do not match the user ID and password registered at MAPPS for either User 1 or User 2, or if the user ID and password match but that user is set as invalid, communications from the personal computer will be rejected.

2-3-1-4 Communications with MORI-SERVER in Progress

If MAPPS at the communication target machine is already communicating with MORI-SERVER initiated from another personal computer, the communication attempt from the later personal computer will be rejected.

However, if communication is attempted after the communications initiated by the other computer have ended, it will be accepted.

2-3-1-5 MAPPS Input/Output in Progress

If input/output of NC programs or other data is in progress at MAPPS, communication from a personal computer is rejected.

2-3-1-6 System Screen Displayed

When the NC system screen is displayed at MAPPS, communication from a personal computer is rejected.

2-3-1-7 Exclusive Control Function

As described in 2-4-1 "Key Input Lock Function" (page 135), MORI-SERVER has a function for rejecting input from the keyboard at MAPPS while communications are in progress. To avoid a deadlock with other software that has an equivalent function, exclusive control is implemented.

When input from the keyboard is locked by another software program of exclusive control, communication from MORI-SERVER will be rejected.

2-3-2 Restrictions on Individual Functions

2-3-2-1 Message Transmit Function

MAPPS may reject a communication or the communication may fail if the message transmission function is executed under any of the following conditions (in addition to those described in 2-3-1 "Common Interlock Options" (page 130)).

- The message cannot be added to the message box displayed on the MAPPS screen.

2-3-2-2 NC Program List Obtaining Function

No interlocks apply to the NC program list obtaining function apart from those covered in 2-3-1 "Common Interlock Options" (page 130).


2-3-2-3 Individual NC Program Output Function

MAPPS may reject a communication or the communication may fail if the NC program individual output function is executed under any of the following conditions (in addition to those described in 2-3-1 "Common Interlock Options" (page 130)).

- When the MAPPS → PC setting for the user who has logged in in the NC PROGRAM INPUT/OUTPUT settings on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4)) is "PROHIBIT".


2-3-2-4 Individual NC Program Input Function

MAPPS may reject a communication or the communication may fail if the NC program individual input function is executed under any of the following conditions (in addition to those described in 2-3-1 "Common Interlock Options" (page 130)).

- When the PC → MAPPS setting for the user who has logged in in the NC PROGRAM DELETE settings on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4)) is "PROHIBIT".
- When MAPPS is displaying a conversational programming screen
- When the operation selection key-switch at MAPPS is set to a position other than  (operation & edit enable).
- When an attempt is made to input data that contains the same O number as the NC program currently selected at MAPPS or the NC program being edited in the background
- When an attempt is made to input data that contains the same O number as an NC program stored in the NC unit while overwriting of NC program is prohibited

2-3-2-5 NC Program Delete Function

MAPPS may reject a communication or the communication may fail if the NC program delete function is executed under any of the following conditions (in addition to those described in 2-3-1 "Common Interlock Options" (page 130)).

- When the PC → MAPPS setting for the user who has logged in in the NC PROGRAM DELETE settings on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4)) is "PROHIBIT".
- When MAPPS is displaying a conversational programming screen
- When the operation selection key-switch at MAPPS is set to a position other than  (operation & edit enable)
- When an attempt is made to delete an NC program that is currently selected at MAPPS or the NC program being edited in the background

2-3-2-6 All NC Program Output Function

MAPPS may reject a communication or the communication may fail if the all NC program output function is executed under any of the following conditions (in addition to those described in 2-3-1 "Common Interlock Options" (page 130)).

- When the PC → MAPPS setting for the user who has logged in in the NC PROGRAM INPUT/OUTPUT settings on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4)) is "PROHIBIT".

2-3-2-7 All NC Program Input Function

MAPPS may reject a communication or the communication may fail if the all NC program input function is executed under any of the following conditions (in addition to those described in 2-3-1 "Common Interlock Options" (page 130)).

- When the PC → MAPPS setting for the user who has logged in in the NC PROGRAM INPUT/OUTPUT settings on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4)) is "PROHIBIT".
- When MAPPS is displaying a conversational programming screen
- When an attempt is made to input data that contains the same O number as the NC program currently selected at MAPPS or the NC program being edited in the background
- When an attempt is made to input data that contains the same O number as an NC program stored in the NC unit while overwriting of NC program is prohibited

2-3-2-8 Conversational Program List Acquisition Function

No interlock is provided for the conversational program list acquisition function except for 2-3-1 "Common Interlock Options" (page 130).

2-3-2-9 Conversational Program Output Function

With the conversational program output function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When "CONVERSATION PROGRAM INPUT/OUTPUT" in the "MAPPS → PC" column is prohibited for the log-on user on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4))
- When the conversational programming screen is displayed on the MAPPS

2-3-2-10 Conversational Program Input Function

With the conversational program input function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When "CONVERSATION PROGRAM INPUT/OUTPUT" in the "PC → MAPPS" column is prohibited for the log-on user on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4))
- When the conversational programming screen is displayed on the MAPPS
- When you attempt to input a program having the same number as the one that is presently being executed for conversational direct operation on the MAPPS
- When you attempt to input a program having the same number as an existing file in the MAPPS with the conversational program overwriting prohibited

2-3-2-11 Conversational Program Delete Function

With the conversational parameter delete function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When "NC PROGRAM DELETE" in the "PC → MAPPS" column is prohibited for the log-on user on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4))
- When the conversational programming screen is displayed on the MAPPS
- When you attempt to delete the program that is being executed for conversational direction operation on the MAPPS

2-3-2-12 Conversational Data Output Function

With the conversational data output function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When "CONVERSATION DATA INPUT/OUTPUT" in the "MAPPS → PC" column is prohibited for the log-on user on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4))
- When the conversational programming screen is displayed on the MAPPS

2-3-2-13 Conversational Data Input Function

With the conversational data input function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When "CONVERSATION DATA INPUT/OUTPUT" in the "PC → MAPPS" column is prohibited for the log-on user on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4))
- When the conversational programming screen is displayed on the MAPPS

2-3-2-14 Card DNC/ESPRIT Area List Acquisition Function

No interlock is provided for the card DNC/ESPRIT area list acquisition function except for 2-3-1 "Common Interlock Options" (page 130).

2-3-2-15 Card DNC/ESPRIT Area Communication Target Folder Move Function

No interlock is provided for the card DNC/ESPRIT area communication target folder move function except for 2-3-1 "Common Interlock Options" (page 130).

2-3-2-16 Card DNC/ESPRIT Area Folder Create Function

With the card DNC/ESPRIT area folder create function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When the communication target card is a user area and the communication target folder is in the sub-folder in the card DNC/ESPRIT area.

2-3-2-17 Card DNC/ESPRIT Area File/Folder Output Function

With the card DNC/ESPRIT file/folder output function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When "CARD DNC INPUT/OUTPUT" in the "MAPPS → PC" column is invalid for the log-on user on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4))
- When a folder having the same name as the output file exists in the target folder
- When a read-only file having the same name as the output file exists in the target folder

2-3-2-18 Card DNC/ESPRIT Area File Input Function

With the card DNC/ESPRIT area file input function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When "CARD DNC INPUT/OUTPUT" in the "PC → MAPPS" column is invalid for the log-on user on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4))
- When you attempt to input a file having the same name as the program that is presently being executed for DNC operation on the MAPPS
- When you attempt to input a file having the same number as an existing program in the MAPPS with the card DNC/ESPRIT area file overwriting prohibited

2-3-2-19 Card DNC/ESPRIT Area File/Folder Delete Function

With the card DNC/ESPRIT area file/folder delete function, the communication will be rejected or fail in the following cases in addition to 2-3-1 "Common Interlock Options" (page 130).

- When "CARD DNC DELETE" in the "PC → MAPPS" column is invalid for the log-on user on the MORI-SERVER DETAIL SETTING screen (page 69 (1-4-2-4))
- When you attempt to delete the program that is being executed for DNC operation on the MAPPS
- When you attempt to delete the folder that contains the program that is being executed for DNC operation on the MAPPS

2-3-3 Restrictions when the 3D Interference Checking Function is Executed

When the 3D interference checking function is executed, use of MORI-SERVER is restricted in the following ways.


- During axis movement in automatic operation or manual operation, it is not possible to input or output conversational programs, card DNC data, or maintenance parameters (tool files of CAPS data) using MORI-SERVER.
- If axes are moved in automatic or manual operation during input or output of conversational programs, card DNC data, or maintenance parameters (tool files of CAPS data) using the MORI-SERVER, the machine might stop with the alarm "TIME OVER" displayed.

2-4 MAPPS Safety Functions

To provide an interlock on operator operations, input from the keyboard is locked at MAPPS during communications with MORI-SERVER.

2-4-1 Key Input Lock Function

During communications with MORI-SERVER, keyboard input at MAPPS is locked in the following ways.

1. On accepting a connection for MORI-SERVER communications from a personal computer, MAPPS locks communication from the keyboard.
2. When input from the keyboard is locked, an icon flashes at the bottom right of the screen to inform the MAPPS (machine) operator of this status.
3. Even when the key input "locked" indication described above is displayed, by pressing the  (RESET) key or EMERGENCY STOP button at MAPPS you can forcibly stop communication with MORI-SERVER and release the lock on key input, enabling input.



Communication is also stopped by switching to the MDI mode while communication is in progress. In this case too, the lock is released and key input is enabled.

3 MESSAGE DISPLAY FUNCTION

This section explains the messages displayed at MORI-SERVER and MAPPS when using the MORI-SERVER communication function.

3-1 MORI-SERVER Messages

MORI-SERVER displays messages like the one shown in Fig. A-134 in the message display area (Fig. A-133) of the MORI-SERVER window to notify the details of the communications that have been carried out.

This section explains the details of the messages that are displayed in the message display area of the MORI-SERVER .

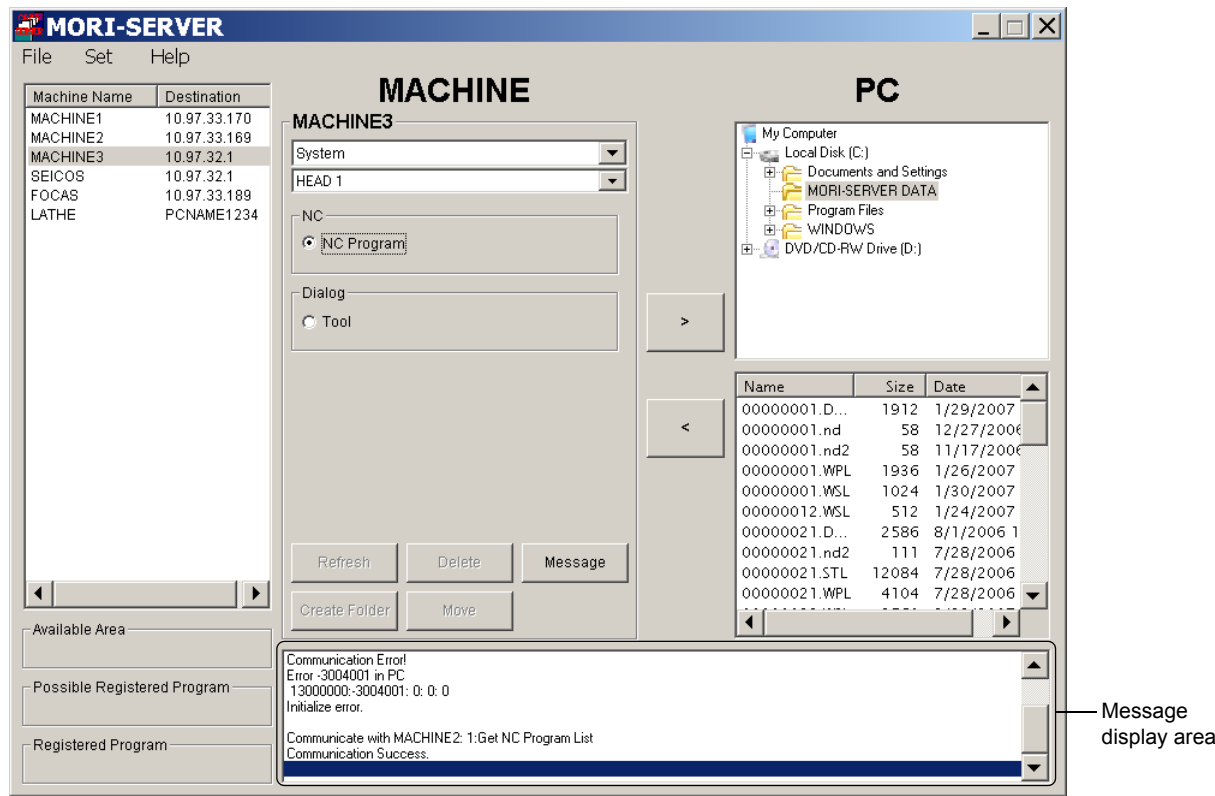


Fig. A-133

3-1-1 Communication Message

MORI-SERVER notifies the details of communications by displaying messages in the following formats.

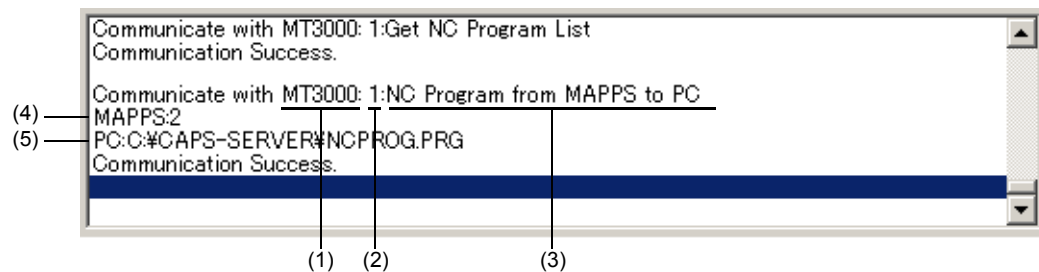


Fig. A-134

1. Communication target machine

The name of the communication target machine is displayed if the communication target machine was selected from the list of registered machines.

The IP address of the communication target machine is displayed if the communication target machine was set manually.

2. Head number

The head number of the communicating NC is displayed.

This is not displayed for tool files and conversational programs.

3. Communication command message

The communication command message that indicates the details of the communication is displayed.

4. O number

For the individual NC program output function or NC program delete function, the O number of the object NC program is displayed.

For all NC program output function, "ALL" is displayed.

When executing the conversational program output function or the conversational program delete function, the program number to be output or deleted is displayed.

For other communication functions, no O number is displayed.

5. File name/message

For NC program input/output functions, the name of the program file in a personal computer that has been used for the input/output operation is displayed.

For the message transmit function, the message for transmission is displayed.

For the NC program list obtaining function or the NC program delete function, no program file name is displayed.

3-1-2 Communication Completion Message

When the communication is successfully completed, the message "Communication Success." is displayed in the message display area (Fig. A-135) as shown in Fig. A-136.

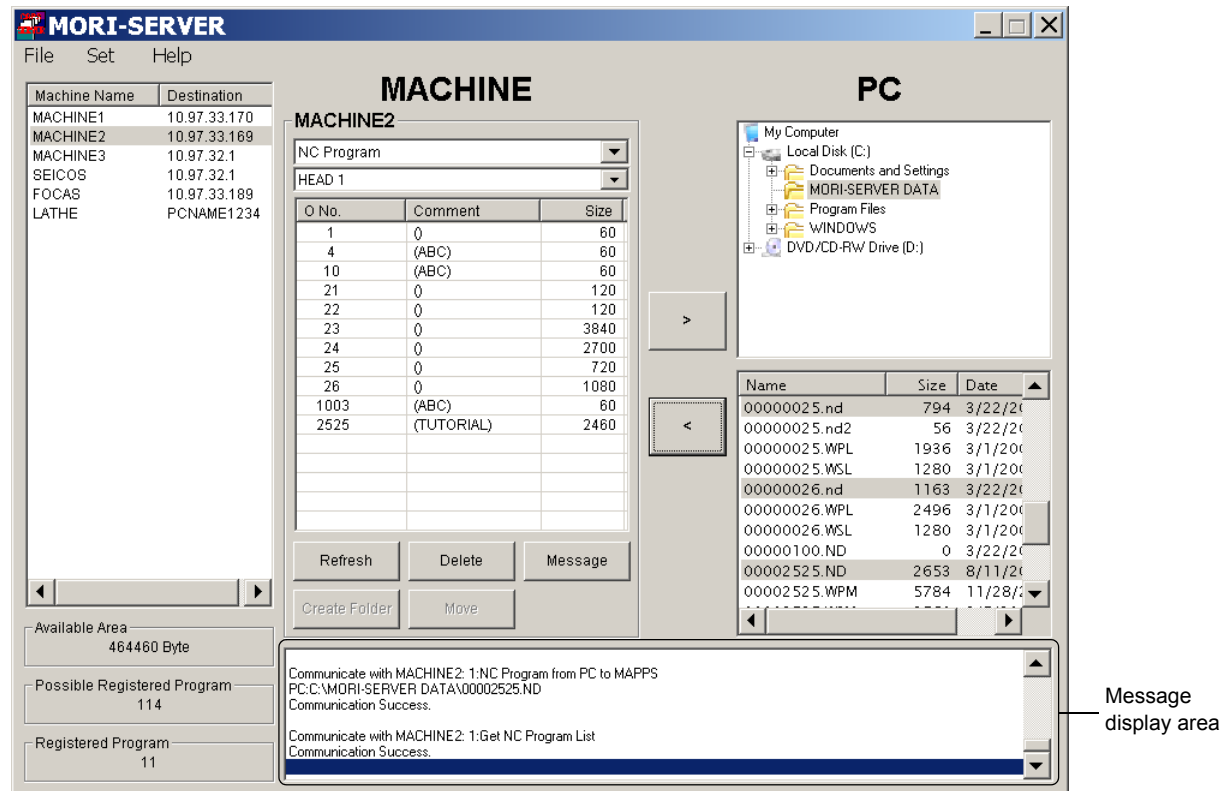


Fig. A-135

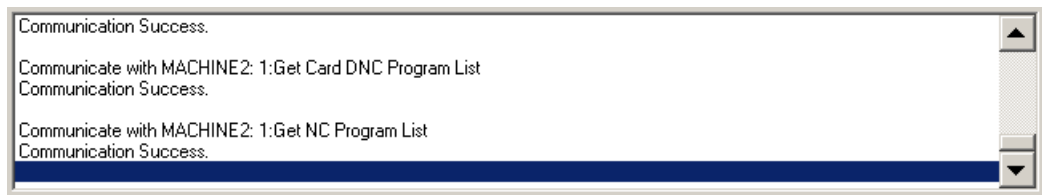


Fig. A-136

3-1-3 Error Messages

MORI-SERVER displays an error message if an error occurs to indicate the details of the error.

4 ERROR MESSAGES

This section explains the possible causes of MORI-SERVER communication errors and the error messages displayed.

4-1 Error Message Display

If an error occurs during communications, MORI-SERVER displays an error message in a message box as shown in Fig. A-137.

If you then click the [OK] button in the message box to close the message box, error information is displayed in the message display area (Fig. A-138).

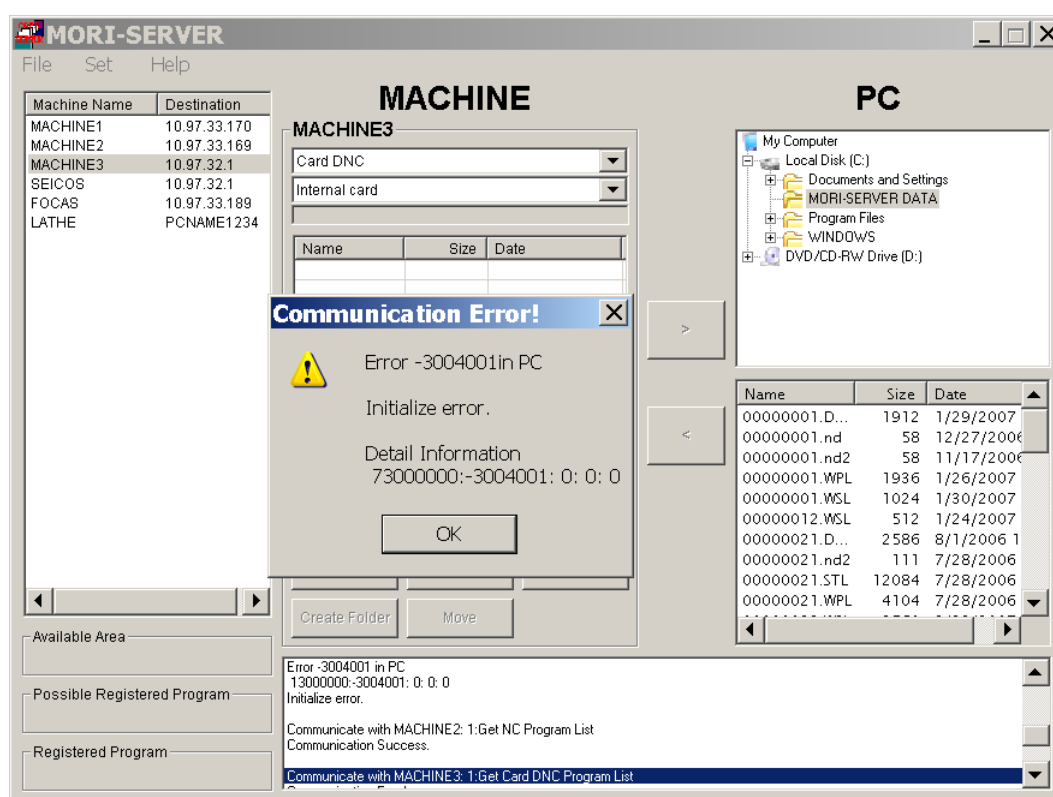


Fig. A-137

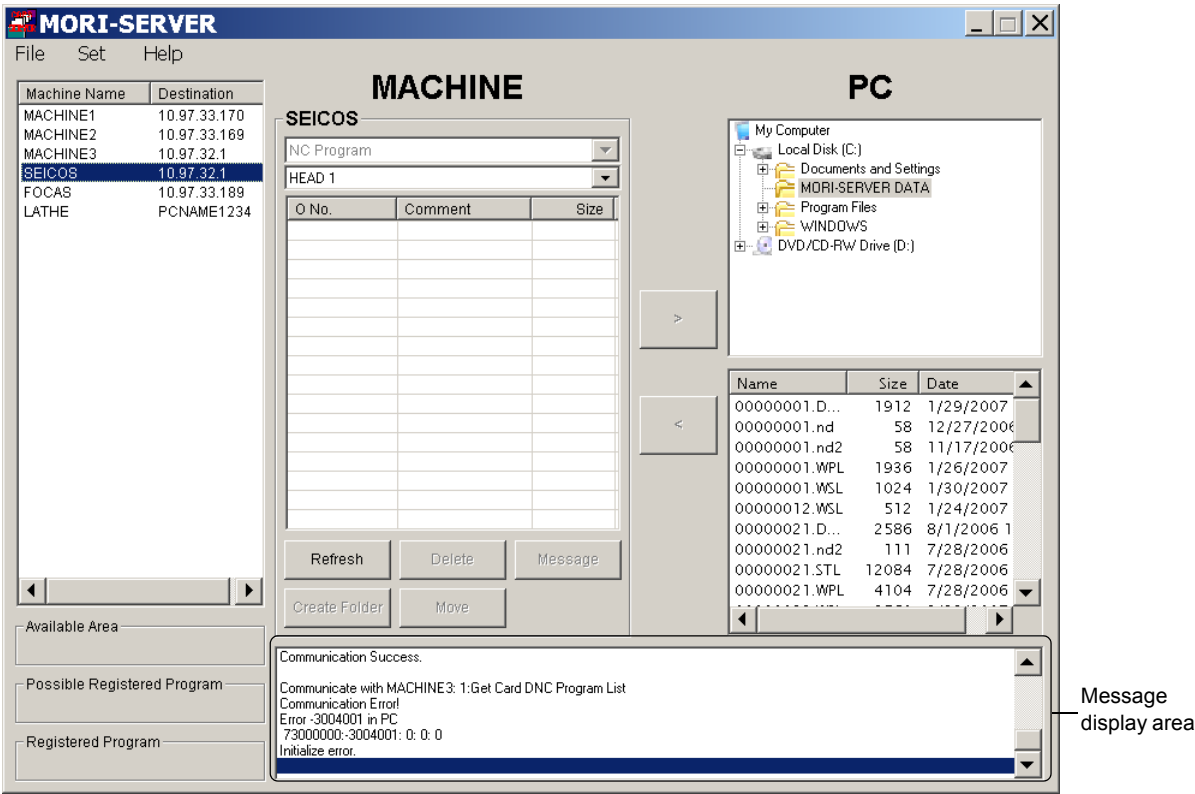


Fig. A-138

4-1-1 Error Message Display Formats

This section explains the formats and contents of error messages.

<Message display area>

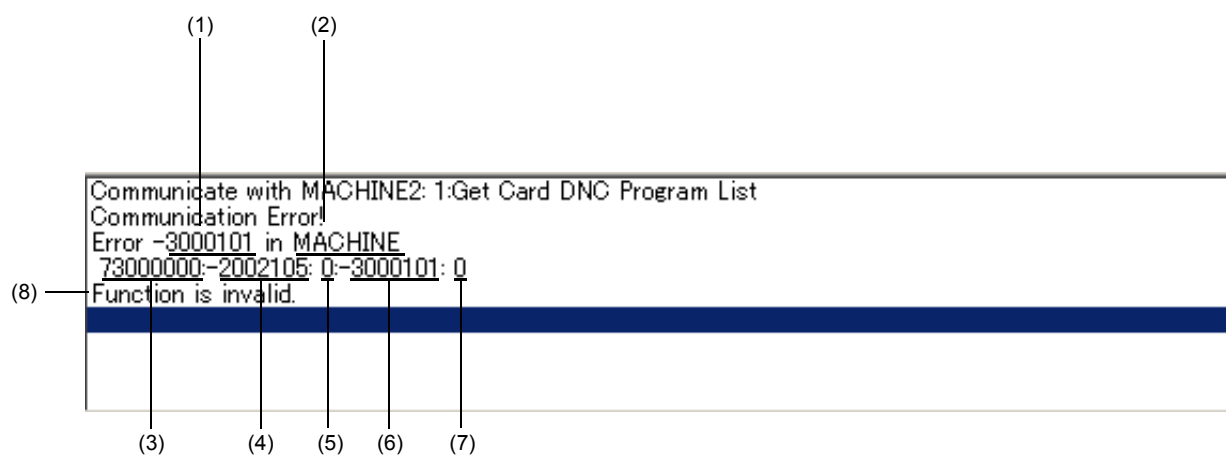


Fig. A-139

<Message box>

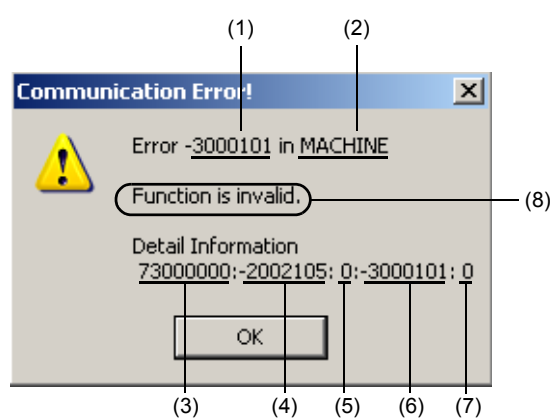


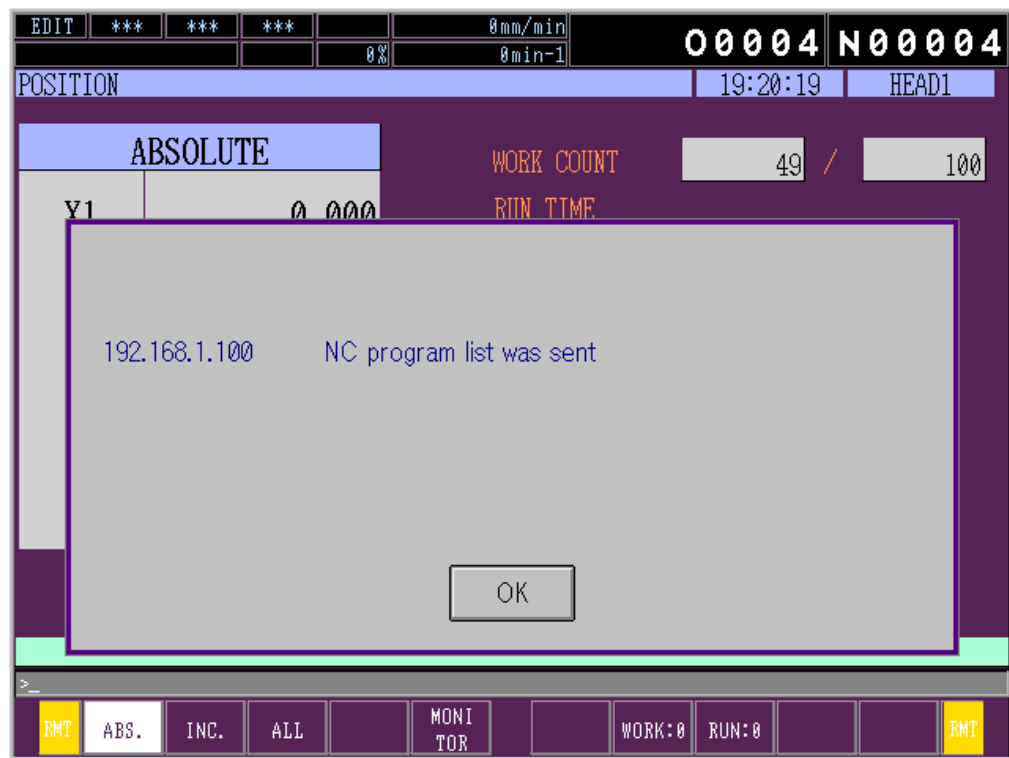
Fig. A-140

<Display contents>


Number	Display Item	Explanation
(1)	Error number	Displays a number to identify the cause of the error.
(2)	Object of the error	Displays whether the error has occurred at the target machine side or MORI-SERVER side.
(3)	API number	Displays a number to identify the contents of the communication being carried out when the error occurred.
(4)	API error number	Displays the error number identified by MORI-SERVER.
(5)	API detail error number	Displays a detailed error number if detailed error information is identified by MORI-SERVER.
(6)	Machine side error number	Displays the error number identified by the target machine.
(7)	Communication level error	Displays error information if an error has occurred in communication itself, not a regular communication error due to the contents of the communication or the status of the target machine.
(8)	Error messages	A message giving details of the error is displayed.

5 MESSAGES AT MAPPS

MAPPS displays a message box to notify the details of communications carried out with MORI-SERVER or simple messages from MORI-SERVER when the communication with MORI-SERVER is completed.



Other operations are disabled while a message box is displayed.

After confirming the contents of the messages, press the  (INPUT) key to close the message box.

5-1 Display Items in a Message Box

This section explains the items displayed in a message box and their details.



<Displayed items>


Number	Item	Contents
(1)	NC program alteration indicator	"NC PROG" is displayed to indicate that a communication that may alter the NC programs stored in the NC, such as the individual NC program input function, NC program delete function or all NC program input function, has been carried out.
(2)	IP address	The IP address of the personal computer that performed the communication that caused each message is displayed.
(3)	Message	The contents of the message are displayed.
(4)	Communication information	Up to 5 items of communication information (IP address and message) are displayed.
(5)	Additional communication information indicator	"MORE" is displayed to indicate that more than 6 communications have been carried out while this message box has been displayed.

6 MESSAGES AT MAPPS II/III/IV

In order to notify the operator about information communicated with MORI-SERVER and give simple messages, MAPPS II/III/IV sends messages when communications with MORI-SERVER are completed.

6-1 Message Screen

Open the message screen at MAPPS II/III/IV as follows.

- 1) Press the  (MESSAGE) function key on the MAPPS operation panel.
The screen indicated in Fig. A-141 will be displayed.
- 2) Press the **[APP MSG]** soft-key.

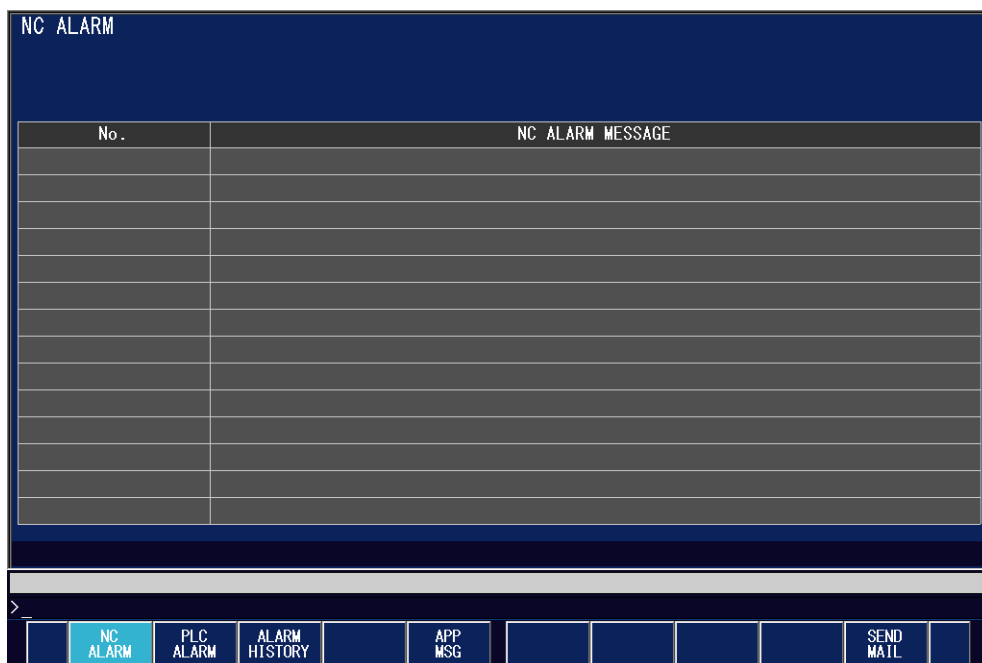


Fig. A-141

The APPLICATION/MESSAGE screen (Fig. A-142) will be displayed.

[illegible]

Fig. A-142

The items displayed on the message screen and their meanings are indicated below.

<Displayed items>

Item	Explanation
RECEIVE TIME	The times when messages were received are indicated here. These times are arranged in order from most recent at the top to oldest at the bottom.
APPLICATION	The application that sent the message is indicated here.
MESSAGE	The text of the message is displayed here.



A maximum of 50 messages can be displayed.

6-2 Message Priority Levels

There are five message priority levels: "lowest"; "low"; "normal"; "high"; and "highest". If a message is sent when 50 messages have already been registered, and among the registered messages there are messages that are of the same or a lower level of priority than the sent message, the message among these that has the lowest priority level and the oldest date of reception is deleted and the new message is registered.



If there is no message among those registered that is of the same or a lower priority than the sent message (i.e. all of the registered messages have a higher priority than the sent one), the sent message is not registered in MAPPS II/III/IV.

6-3 Message Meanings

The meanings of the messages that are displayed on the message screen are indicated below.

1. Output "(output destination file name)": (output O number)

Priority level: Low

Meaning: There was a request for NC program output from MORI-SERVER and the relevant NC program was output to the file indicated at "(output destination file name)".



1. When programs are output individually, the program number of the NC program being output is indicated in the (output O number) part. If multiple NC programs are output, the individual programs are separated by commas as indicated in Fig. A-143 (1).
2. If the number of NC programs being output is too great to be written in the message display area, the list is curtailed and "etc." is appended at the end of the message as described in Fig. A-143 (2).
3. Output destination file names of up to 12 characters in length can be displayed. If the filename of the output destination file is 13 characters or longer, the full name is truncated and ".." is added after the first 10 characters as shown in Fig. A-143 (3).
4. When NC programs are output in a batch, in place of the O number, "All programs" is indicated at the (output O number) part as described in Fig. A-143 (4) and (5).

2. Error in sending program

3. Error in sending all program

Priority level: Low

Meaning: There was a request for NC program output from MORI-SERVER but transmission of the relevant NC program failed. (Fig. A-143 (6) and (7)).

RECEIVE DATE	APPLICATION	MESSAGE	
2004/05/28 14:37:56	MORI-SERVER	OUTPUT "NCProg.TXT": 050,0200	(1)
2004/05/28 14:37:34	MORI-SERVER	OUTPUT "ManyProg.TXT": 020,050,0200 etc.	(2)
2004/05/28 14:36:54	MORI-SERVER	OUTPUT "NCProgWith..": 0800	(3)
2004/05/28 14:35:57	MORI-SERVER	OUTPUT "AllProg.TXT": All programs	(4)
2004/05/28 14:35:37	MORI-SERVER	OUTPUT "AllProgram..": All programs	(5)
2004/05/28 14:34:54	MORI-SERVER	Error in sending program	(6)
2004/05/28 14:34:47	MORI-SERVER	Error in sending all programs	(7)

Fig. A-143

4. Input "(input source file name)": (Input O number)

Priority level: Highest

Meaning: There was a request for NC program output from MORI-SERVER, the file sent from MORI-SERVER has been received, and the NC program has been sent to the NC unit.



1. When programs are output individually, the program number of the NC program being output is indicated in the (output O number) part. If multiple NC programs are input, the individual programs are separated by commas as indicated in Fig. A-144 (1).
2. If the number of NC programs being input is too great to be written in the message display area, the list is curtailed and "etc." is appended at the end of the message as described in Fig. A-144 (2).
3. Input destination file names of up to 12 characters in length can be displayed. If the filename of the input destination file is 13 characters or longer, the full name is truncated and ".." is added after the first 10 characters as shown in Fig. A-144 (3).

5. Error in receiving program

Priority level: Highest

Meaning: There was a request for NC program input from MORI-SERVER but reception of the file sent from MORI-SERVER or input of the NC program saved in the file failed. (Fig. A-144 (4))

[illegible]

Fig. A-144

6. Delete: (deleted O number)

Priority level: Highest

Meaning: There was a request for deletion of an NC program from MORI-SERVER and the relevant NC program was deleted. (Fig. A-145 (1))

7. Error in deleting program

Priority level: High

Meaning: There was a request for deletion of an NC program from MORI-SERVER but deletion of the relevant program failed. (Fig. A-145 (2))

[illegible]

Fig. A-145

8. OUTPUT CONVERSATION PROGRAM: (output program number)

Priority: Low

Meaning: There was a request for conversational program output given from MORI-SERVER, and the applicable conversational program is output. (Fig. A-146 (1))

9. Error in sending CAPS program

Priority: Low

Meaning: There was a request for conversational program output given from MORI-SERVER, but transmission of the applicable conversational program has failed. (Fig. A-146 (2))

10. INPUT CONVERSATION PROGRAM: (input program number)

Priority level: Highest

Meaning: There was a request for conversational program input given from MORI-SERVER, and the file transmitted from MORI-SERVER is received and is input to the MAPPS II/III/IV. (Fig. A-146 (3))

11. Error in receiving CAPS program

Priority level: Highest

Meaning: There was a request for conversational program input given from MORI-SERVER, but reception of the file transmitted from MORI-SERVER or input of the conversational program that is saved in the file has failed.
(Fig. A-146 (4))

12. DELETE CONVERSATION PROGRAM: (deleted program number)

Priority level: Highest

Meaning: There was a request for conversational program deletion given from MORI-SERVER, and the applicable conversational program is deleted. (Fig. A-146 (5))

13. Error in deleting CAPS program

Priority level: High

Meaning: There was a request for conversational program deletion given from MORI-SERVER, but deletion of the applicable conversational program has failed. (Fig. A-146 (6))

14. OUTPUT TOOL FILE: "(output file name)"

Priority: Low

Meaning: There was a request for tool file output given from MORI-SERVER, and the tool file is output. (Fig. A-146 (7))



A maximum of 12 one-byte characters can be displayed as a target file name. If a target file name has 13 or more one-byte characters, the first 10 characters are taken and the rest is omitted as "..".

15. Error in sending CAPS parameter

Priority: Low

Meaning: There was a request for conversational data output given from MORI-SERVER, but transmission has failed. (Fig. A-146 (8))

16. INPUT TOOL FILE: "(input file name)"

Priority level: Highest

Meaning: There was a request for tool file input given from MORI-SERVER, and the file transmitted from MORI-SERVER is received and is input to the MAPPS II/III/IV. (Fig. A-146 (9))



A maximum of 12 one-byte characters can be displayed as a source file name. If a source file name has 13 or more one-byte characters, the first 10 characters are taken and the rest is omitted as "..".

17. Error in receiving CAPS parameter

Priority level: Highest

Meaning: There was a request for conversational data input given from MORI-SERVER, but reception of the file transmitted from MORI-SERVER or input of the conversational data that is saved in the file has failed.
(Fig. A-146 (10))

RECEIVE DATE	APPLICATION	MESSAGE	
2005/02/18 16:48:01	MORI-SERVER	OUTPUT CONVERSATION PROGRAM: 00000001	(1)
2005/02/18 16:36:15	MORI-SERVER	Error in sending CAPS program	(2)
2005/02/18 16:25:50	MORI-SERVER	INPUT CONVERSATION PROGRAM: 00000400	(3)
2005/02/18 16:15:25	MORI-SERVER	Error in receiving CAPS program	(4)
2005/02/18 16:13:01	MORI-SERVER	DELETE CONVERSATION PROGRAM: 00000034	(5)
2005/02/18 16:08:38	MORI-SERVER	Error in deleting CAPS program	(6)
2005/02/18 15:53:29	MORI-SERVER	OUTPUT TOOL FILE: "MT3000_TOOLW.DAT"	(7)
2005/02/18 15:48:08	MORI-SERVER	Error in sending CAPS parameter	(8)
2005/02/18 15:34:13	MORI-SERVER	INPUT TOOL FILE: "TOOLW.DAT"	(9)
2005/02/18 15:32:01	MORI-SERVER	Error in receiving CAPS parameter	(10)

Fig. A-146

18. Create folder Card DNC "(path to the created folder)"

19. Create folder Card DNC "(path to the communication target folder)": (created folder name)

Priority: Low

Meaning: There is a request for folder creation in the card DNC/ESPRIT area given from MORI-SERVER, and a folder is successfully created.



1. When the folder where a new folder is created is located in the highest level of the hierarchy in the communication target card, it is displayed in the format shown in 18.; for other cases, it is displayed in the format shown in 19. (Fig. A-147 (1) (2))
2. When the communication target card is a user area, a relative path from the highest level folder is displayed for the path to the communication target folder. When the communication target card is a memory card, an absolute path from drive E is displayed; however, if the communication target folder is two or more levels lower than the highest level holder, "E:\.." is displayed. (Fig. A-147 (3))
3. A maximum of 12 one-byte characters can be used for the path to the created folder, to the communication target folder or the created folder name. If the path or name has 13 or more one-byte characters, the first 10 characters are taken and the rest is omitted as "...". Depending on the situation, a two-line application message may be displayed.

20. Card DNC: Error in creating folder

Priority: Low

Meaning: There is a request for folder creation in the card DNC/ESPRIT area given from MORI-SERVER, but folder creation has failed. (Fig. A-147 (4))

RECEIVE DATE	APPLICATION	MESSAGE	
2005/01/18 18:23:05	MORI-SERVER	Create folder Card DNC ".¥PLANT_DATA"	(1)
2005/01/18 17:17:55	MORI-SERVER	Create folder Card DNC "E:¥PLANT": "PLANT"	(2)
2005/01/18 15:55:52	MORI-SERVER	Create folder Card DNC "E:¥. .": "FOLDER"	(3)
2005/01/18 12:25:12	MORI-SERVER	Card DNC:Error in creating folder	(4)

Fig. A-147

21. Output file Card DNC "(path to the output file)"

22. Create folder Card DNC "(path to the communication target folder)": (output file name)

Priority: Low

Meaning: There was a request for file output from the card DNC/ESPRIT area given from MORI-SERVER, and the applicable file is output.



1. When the output file is located in the highest level of the hierarchy in the communication target card, it is displayed in the format shown in 21.; for other cases, it is displayed in the format shown in 22. (Fig. A-148 (1) (2))
2. When the communication target card is a user area, a relative path from the highest level folder is displayed for the path to the communication target folder. When the communication target card is a memory card, an absolute path from drive E is displayed; however, if the communication target folder is two or more levels lower than the highest level holder, "E:\.." is displayed. (Fig. A-148 (3))
3. A maximum of 12 one-byte characters can be used for the path to the output file, to the communication target folder or the output file name. If the path or name has 13 or more one-byte characters, the first 10 characters are taken and the rest is omitted as "...". Depending on the situation, a two-line application message may be displayed.

23. Card DNC: Error in sending file

Priority: Low

Meaning: There was a request for file output from the card DNC/ESPRIT area that is given from MORI-SERVER, but the applicable file output has failed. (Fig. A-148 (4))

RECEIVE DATE	APPLICATION	MESSAGE	
2005/01/18 18:23:05	MORI-SERVER	Output file Card DNC ".¥00100.PRG"	(1)
2005/01/18 17:17:55	MORI-SERVER	Output file Card DNC ".¥PLANT": "00200.PRG"	(2)
2005/01/18 15:55:52	MORI-SERVER	Output file Card DNC "E:¥.": "00300.PRG"	(3)
2005/01/18 12:25:12	MORI-SERVER	Card DNC:Error in sending file	(4)

Fig. A-148

24. Input file Card DNC "(path to the input file)"

25. Input file Card DNC "(path to the communication target folder)": (input file name)

Priority level: Highest

Meaning: There was a request for file input into the card DNC/ESPRIT area that is given from MORI-SERVER, and the applicable file is input.



1. When the file is input in the highest level folder of the hierarchy in the communication target card, it is displayed in the format shown in 24.; for other cases, it is displayed in the format shown in 25. (Fig. A-149 (1) (2))
2. When the communication target card is a user area, a relative path from the highest level folder is displayed for the path to the communication target folder. When the communication target card is a memory card, an absolute path from drive E is displayed; however, if the communication target folder is two or more levels lower than the highest level holder, "E:\.." is displayed. (Fig. A-149 (3))
3. A maximum of 12 one-byte characters can be used for the path to the input file, to the communication target folder or the input file name. If the path or name has 13 or more one-byte characters, the first 10 characters are taken and the rest is omitted as "..". Depending on the situation, a two-line application message may be displayed.

26. Card DNC: Error in receiving file

Priority level: Highest

Meaning: There was a request for file input into the card DNC/ESPRIT area that is given from MORI-SERVER, but the applicable file input has failed. (Fig. A-149 (4))

RECEIVE DATE	APPLICATION	MESSAGE	
2005/01/18 18:23:05	MORI-SERVER	Input file Card DNC ".¥00100. PRG"	(1)
2005/01/18 17:17:55	MORI-SERVER	Input file Card DNC ".¥PLANT": "00200. PRG"	(2)
2005/01/18 15:55:52	MORI-SERVER	Input file Card DNC "E:¥..": "00300. PRG"	(3)
2005/01/18 12:25:12	MORI-SERVER	Card DNC:Error in receiving file	(4)

Fig. A-149

27. Delete file Card DNC "(path to the deleted file)"

28. Delete file Card DNC "(path to the communication target folder)": (deleted file name)

Priority level: Highest

Meaning: There was a request for file deletion from the card DNC/ESPRIT area that is given from MORI-SERVER, and the applicable file is deleted.



1. When the file is deleted from the highest level folder of the hierarchy in the communication target card, it is displayed in the format shown in 27.; for other cases, it is displayed in the format shown in 28. (Fig. A-150 (1) (2))
2. When the communication target card is a user area, a relative path from the highest level folder is displayed for the path to the communication target folder. When the communication target card is a memory card, an absolute path from drive E is displayed; however, if the communication target folder is two or more levels lower than the highest level holder, "E:\.." is displayed. (Fig. A-150 (3))
3. A maximum of 12 one-byte characters can be used for the path to the deleted file, to the communication target folder or the deleted file name. If the path or name has 13 or more one-byte characters, the first 10 characters are taken and the rest is omitted as "..". Depending on the situation, a two-line application message may be displayed.

29. Card DNC: Error in deleting file

Priority level: Highest

Meaning: There was a request for file deletion from the card DNC/ESPRIT area that is given from MORI-SERVER, but the applicable file deletion has failed. (Fig. A-150 (4))


RECEIVE DATE	APPLICATION	MESSAGE	
2005/01/18 18:23:05	MORI-SERVER	Delete file Card DNC ".¥00100.PRG"	(1)
2005/01/18 17:17:55	MORI-SERVER	Delete file Card DNC ".¥PLANT": "00100.PRG"	(2)
2005/01/18 15:55:52	MORI-SERVER	Delete file Card DNC "E:¥.": "00300.PRG"	(3)
2005/01/18 12:25:12	MORI-SERVER	Card DNC:Error in deleting file	(4)

Fig. A-150

6-4 Refresh of "Highest" Priority Level Messages

When 50 messages with the "highest" level of priority have already been registered in MAPPS II/III/IV, only operations to send a "highest" priority message (program input or deletion) whose execution is permitted can be performed. The permission or prohibition of these operations is determined in the MAPPS parameters.

Display the MAPPS parameter screen as follows.

- 1) Press the  (SYSTEM) key among the function keys on the MAPPS operation panel.
The screen indicated in Fig. A-151 will be displayed.
- 2) Press the menu switching key [**<**].

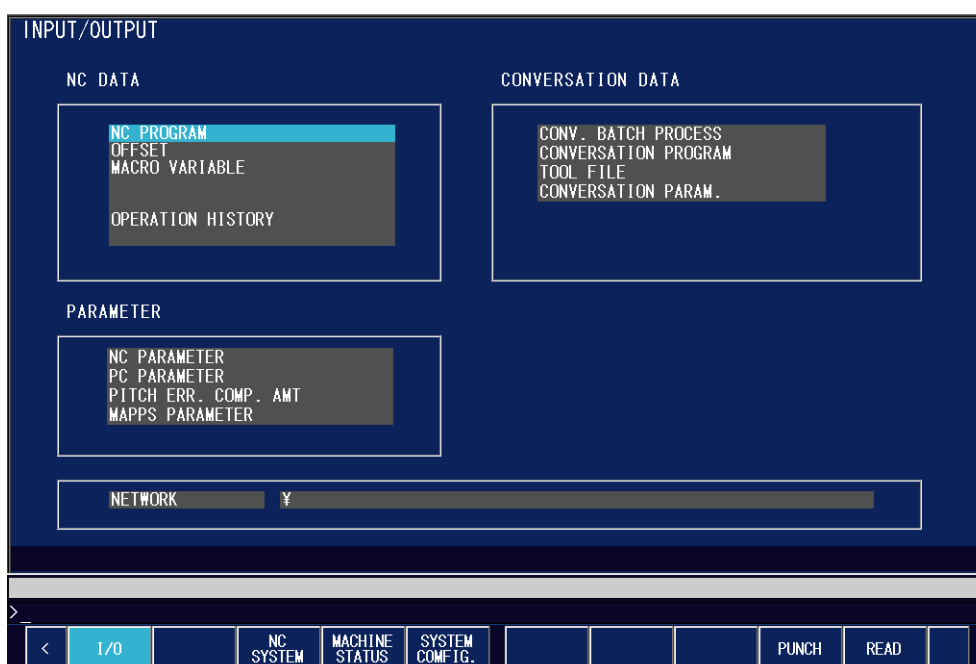


Fig. A-151

The soft-keys will change as indicated in Fig. A-152.

- 3) Press the [**MAPPS. PARAM**] soft-key.



Fig. A-152

The screen changes as indicated in Fig. A-153.

- 4) Enter "357" and press the **[No. SEARCH]** soft-key.

MAPPS PARAMETER

										BIT TYPE								1/51	
No.	7	6	5	4	3	2	1	0	SUM	No.	7	6	5	4	3	2	1	0	SUM
0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0

>357_

< MAPPS PARAM. COMM. SETNG No. SEARCH SET

Fig. A-153

The screen changes as indicated in Fig. A-154.

MAPPS PARAMETER

										BIT TYPE								12/51	
No.	7	6	5	4	3	2	1	0	SUM	No.	7	6	5	4	3	2	1	0	SUM
352	0	0	0	0	0	0	0	0	0	368	0	0	0	0	0	0	0	0	0
353	0	0	0	0	0	0	0	0	0	369	0	0	0	0	0	0	0	0	0
354	0	0	0	0	0	0	0	0	0	370	0	0	0	0	0	0	0	0	0
355	0	0	0	0	0	0	0	0	0	371	0	0	0	0	0	0	0	0	0
356	0	0	0	0	0	0	0	0	0	372	0	0	0	0	0	0	0	0	0
357	0	0	0	0	1	1	1	1	15	373	0	0	0	0	0	0	0	0	0
358	0	0	0	0	0	0	0	0	0	374	0	0	0	0	0	0	0	0	0
359	0	0	0	0	0	0	0	0	0	375	0	0	0	0	0	0	0	0	0
360	0	0	0	0	0	0	0	0	0	376	0	0	0	0	0	0	0	0	0
361	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	0	0	0	0
362	0	0	0	0	0	0	0	0	0	378	0	0	0	0	0	0	0	0	0
363	0	0	0	0	0	0	0	0	0	379	0	0	0	0	0	0	0	0	0
364	0	0	0	0	0	0	0	0	0	380	0	0	0	0	0	0	0	0	0
365	0	0	0	0	0	0	0	0	0	381	0	0	0	0	0	0	0	0	0
366	0	0	0	0	0	0	0	0	0	382	0	0	0	0	0	0	0	0	0
367	0	0	0	0	0	0	0	0	0	383	0	0	0	0	0	0	0	0	0

>

< MAPPS PARAM. COMM. SETNG No. SEARCH SET

Fig. A-154

- 5) Set each bit of MAPPS parameter No. 357, 358.

Make the settings indicated below for the individual bits. "1" denotes "permitted" and "0" denotes "prohibited".

MAPPS Parameter	Bit	Explanation
357	0	NC program write by user 1
	1	NC program deletion by user 1
	2	NC program write by user 2
	3	NC program deletion by user 2
	4	Conversational program/tool file write by user 1
	5	Conversational program deletion by user 1
	6	Conversational program/tool file write by user 2
	7	Conversational program deletion by user 2
358	0	File write into the card DNC/ESPRIT area by user 1
	1	File deletion from the card DNC/ESPRIT area by user 1
	2	File write into the card DNC/ESPRIT area by user 2
	3	File deletion from the card DNC/ESPRIT area by user 2
	4	Not used
	5	Not used
	6	Not used
	7	Not used



1. The default settings are all "0".
2. Since when "prohibited" is set for all these settings, "highest" priority level messages are not deleted until the operator clears them, information on NC program changes can be reliably conveyed to the operator.



Never make unnecessary changes to MAPPS parameters. If you do, normal operation cannot be guaranteed.

- 6) Press the **[SET]** soft-key to save the changed setting.

6-5 Clearing Messages

Follow the procedure below to clear messages.

- 1) With the screen display as shown in Fig. A-142, press the **[CLEAR]** soft-key.
The soft-keys will change as indicated in Fig. A-155.
- 2) Press the **[EXECUTE]** soft-key.



Fig. A-155

7 CONNECTION TO MACHINE

This section explains the method for connection between the PC that MORI-SERVER runs on and the machines.

7-1 Default Setting

The IP address is set on shipment as shown in Table A-1. The IP address of the machine can be changed.



For the procedure to set the IP address of the machine, refer to 1-4-2-1 "Setting TCP/IP Parameters" (page 57).

Table A-1 IP Address Set on Shipment

	IP ADDRESS	SUBNET MASK	DEFAULT GATEWAY
Communication Module *	Not required	Not required	Not required
Machine	192.168.0.10	255.255.255.0	192.168.0.1



* No communication module if MORI-NET Global Edition is not used.

7-2 Method for Connection

The available connections and the peripheral devices depend on whether or not a hub is used for the connection between the PC that MORI-SERVER runs on and the machines.

7-2-1 When no Hub is Used

Use a cross cable for the LAN cable to connect between the machines and the PC directly without a hub. Connect between the Ethernet connector in the electrical cabinet and the PC with a cross cable.

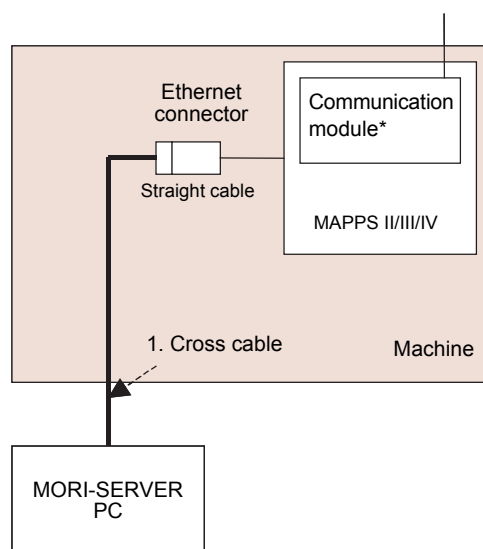


Fig. A-156 Connection (Without a Hub)



1. * No communication module when MORI-NET Global Edition is not used.
2. The peripheral device shown in Table A-2 is required.

Table A-2 Required Peripheral Device (Without a Hub)

Number	Item	Number of item
1	LAN cable (cross cable)	1

7-2-2 When a Hub is Used

Use a straight cable for the LAN cable to connect between the machines and the PC through a hub. Connect them by following procedure below.

<Procedure>

- 1) Connect between the Ethernet connector in the electrical cabinet and a hub with a straight cable.
- 2) Connect between the hub and the PC with a straight cable.
- 3) Confirm that the link lamp of the hub where straight cable connects to is lit.

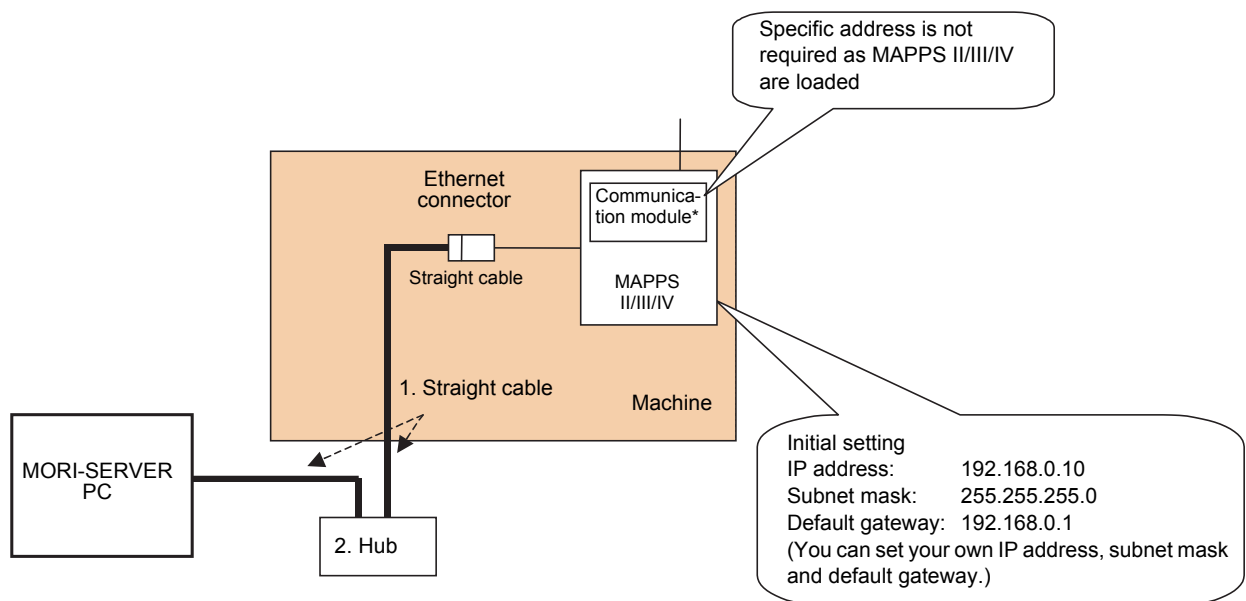


Fig. A-157 Connection (With a Hub)



1. No communication module when MORI-NET Global Edition is not used.
2. When one PC running MORI-SERVER connects to more than two machines, use the straight cables between the other machines and the hub as in 1).
3. The peripheral devices shown in Table A-3 are required.

Table A-3 Required Peripheral Devices (With a Hub)

Number	Item	Number of Item
1	LAN cable (straight cable)	2
2	Hub	1

8 NETWORK EXAMPLES

This section explains an example of setting a typical network to use MORI-SERVER.

8-1 Connection between one PC and Two Machines

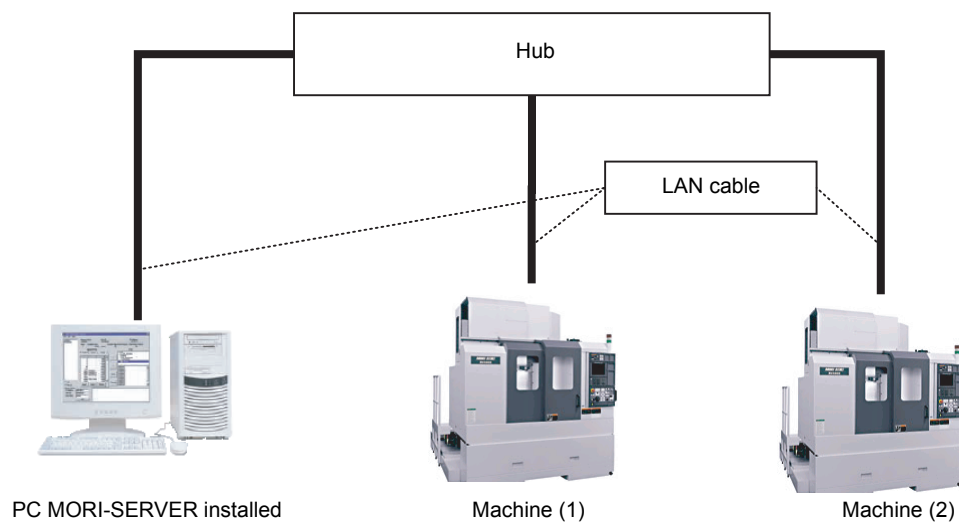
This section explains the method to set up a network comprising one PC and two machines without Internet.

Table A-4 Required Items

Number	Item	Number of Item
1	A hub or a router with the hub function (the number of ports should be the same as the number of PC and machines)	1
2	LAN cable (Category 5 or higher straight cable)	3

8-1-1 Network Connection

Connect the PC, two machines, and a hub with the LAN cables as described below.



8-1-2 Network Setting

8-1-2-1 Example of Setting a PC

Set the PC as shown in Table A-5 by following procedure below.

<Windows XP>

- 1) From the start menu, open "Control Panel" - "Network and Internet Connections" - "Network Connection".
- 2) Select "Local Area Connection" and open **[Properties]**.
- 3) Select "Internet Protocol (TCP/IP)" and open **[Properties]**.
- 4) Set each item and click the **[OK]** button.

<Windows Vista>

- 1) From the start menu, open "Control Panel" - "Network and Internet" - "Network and Sharing Center" - "Manage network connections".
- 2) Select the "Local Area Connection" and open **[Properties]**.
- 3) Select "Internet Protocol Version 4 (TCP/IPv4)" and open **[Properties]**.
- 4) Set each item and click the **[OK]** button.

<Windows 7>

- 1) From the start menu, open "Control Panel" - "Network and Sharing Center" - "Change adapter settings".
- 2) Select "Local Area Connection" and open **[Properties]**.
- 3) Select "Internet Protocol Version 4 (TCP/IPv4)" and open **[Properties]**.
- 4) Set each item and click the **[OK]** button.



The procedure for setting the PC depends on the operating environment, so refer to "Help" at the PC for the detailed procedure.

Table A-5

	IP ADDRESS	SUBNET MASK	DEFAULT GATEWAY	DNS SETTING
PC	192.168.0.10	255.255.255.0	Not required	Not required

8-1-2-2 Example of Setting Machines

Set as shown in Table A-6



For the procedure to set the PC, refer to 1-4 "Setting at Machines" (page 49).

Table A-6

	IP ADDRESS	SUBNET MASK	DEFAULT GATEWAY	DNS SETTING
Machine (1)	192.168.0.11	255.255.255.0	Not required	172.24.33.225
Machine (2)	192.168.0.12	255.255.255.0	Not required	172.24.33.225

CHAPTER B

MORI-SERVER (DSN)

This chapter describes the procedure for setups, settings and operations of the MORI-SERVER (SDN).

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1 SETUP

1-1 Initial Setting of MORI-SERVER (DSN)

After completing installation of MORI-SERVER (DSN), perform initial setting of MORI-SERVER (DSN) by following the procedure below.

- 1) Start MORI-SERVER (DSN) by using any of the following methods.
 - a. Select "Start" - "Programs" - "MORI-SERVER" and then click on MORI-DSN.
 - b. Double-click the MORI-SERVER (DSN) icon (shortcut) created on the desktop.
 - c. Start Windows Explorer and double-click on "MORIDSN.EXE" in the folder that you have just installed.

The window in Fig. B-1 will appear at the bottom left of the screen.



Fig. B-1

After a short while the message "socket initialize OK" is displayed (Fig. B-2).



Fig. B-2

- 2) Click on "Communication" in the "Setting" pull-down menu.



Fig. B-3

The "Communication Parameter" dialog box shown in Fig. B-4 will be displayed.

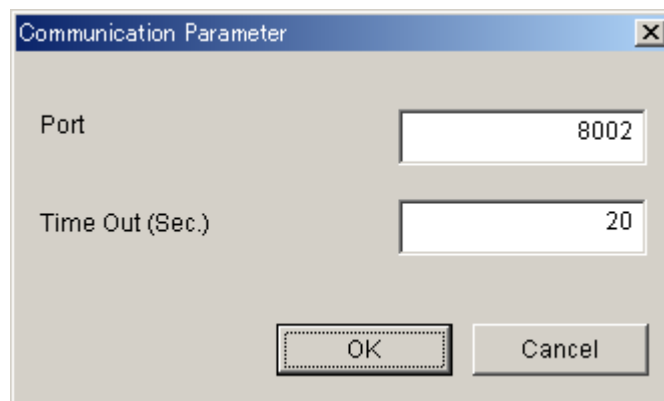


Fig. B-4

- 3) Check that the "Port" is set to "8002".
If the setting is not "8002", enter "8002".

- 4) Set a time for "Time Out".
Enter the time-out time for communications (in seconds).



1. This time may differ from the actual time-out time.
2. Set a value of 20 seconds or longer. If the set time is too short, time-outs may occur when processing takes some time.

- 5) Perform log setting.



For details, see 2-6 "Log Setting" (page 178).

- 6) Make the file input/output settings.



For details, see 2-7 "File Input/Output Settings" (page 180).

- 7) Set the IP address recognition function.



For details, see 2-8 "IP Address Recognition Function Setting" (page 182).

This completes initial setting.

2 HOW TO OPERATE MORI-SERVER (DSN)

2-1 Starting MORI-SERVER (DSN)

MORI-SERVER (DSN) is started by executing the executable file "MORIDSN.EXE". The typical methods for starting are described below.

1. Starting from the start menu

Select "Start" - "Programs" - "MORI-SERVER" and then click on "MORI-DSN".

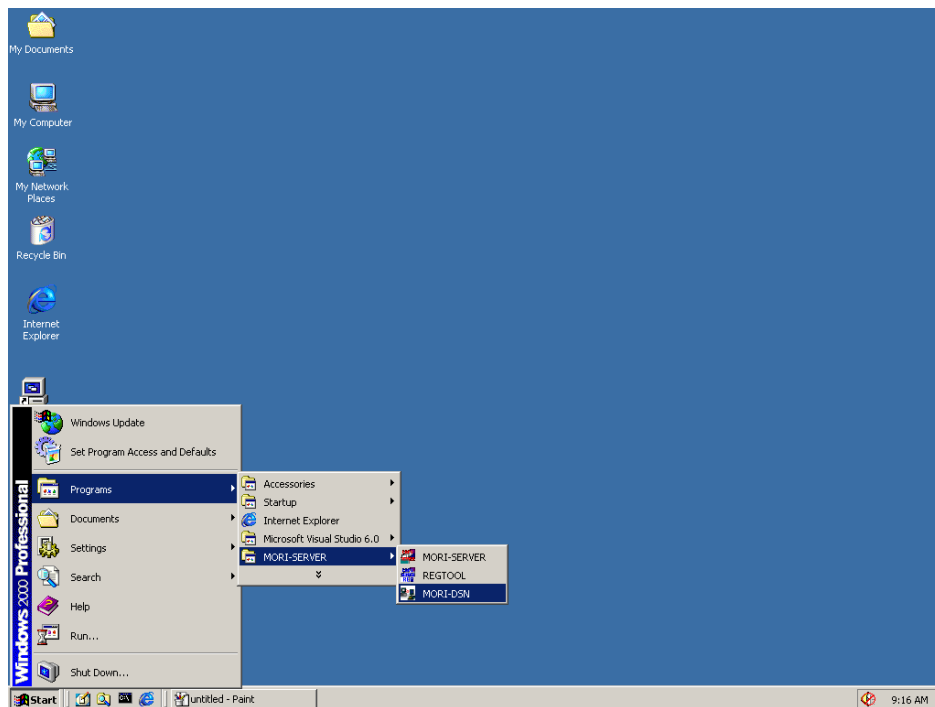


Fig. B-5

2. Starting from the desktop

Double-click the MORI-SERVER (DSN) icon (shortcut) created on the desktop.

The window in Fig. B-6 will appear at the bottom left of the screen.



Fig. B-6

After a short while the message "socket initialize OK" will be displayed (Fig. B-7).



Fig. B-7

This completes MORI-SERVER (DSN) start-up.

2-2 Operations for MORI-SERVER (DSN) Communications

After starting MORI-SERVER (DSN), you do not need to perform any further operation in order to carry out communications. The software automatically responds to a connection from MAPPS. Messages corresponding to the communication status are displayed in the window.



For details on these messages, see 5 "COMMUNICATION LOG" (page 197).

When MORI-SERVER (DSN) is started, an icon (Fig. B-8) appears at the bottom right of the screen.



Fig. B-8

When communications with MAPPS start, the window part of the icon turns green (Fig. B-9), indicating that communication is in progress.



Fig. B-9

2-3 Quitting MORI-SERVER (DSN)

- 1) Click on "Exit" in the "File" pull-down menu.



Fig. B-10

The exit confirmation dialog box is displayed as indicated in Fig. B-11.




Fig. B-11

- 2) Click the [OK] button.

You have now exited MORI-SERVER (DSN).



Click  at the top right of the MORI-SERVER (DSN) window to exit MORI-SERVER (DSN) without displaying the exit confirmation dialog box.

2-4 Checking the MORI-SERVER (DSN) Version Information

- 1) Click on "Version" in the "Help" pull-down menu.



Fig. B-12

The "MORI-SERVER (DSN) Version Information" dialog box will be displayed as indicated in Fig. B-13.

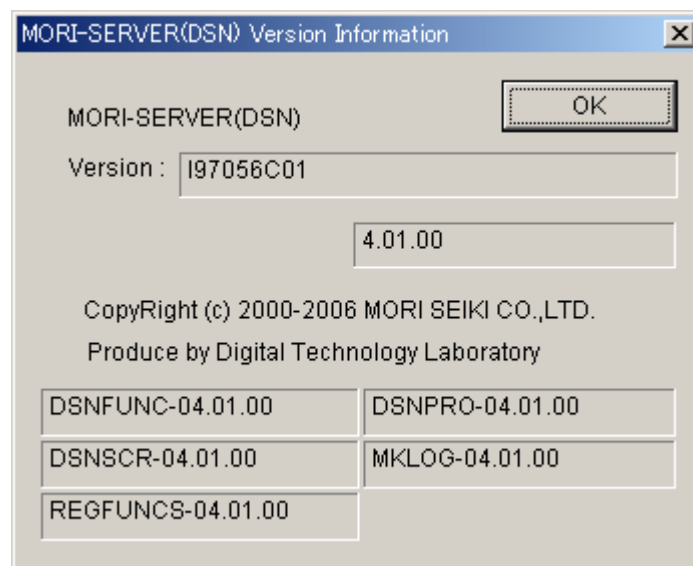


Fig. B-13

- 2) Click the [OK] button to close the dialog box.

2-5 Setting Communications Parameters

- 1) Click on "Communication" in the "Setting" pull-down menu.



Fig. B-14

The "Communication Parameter" dialog box shown in Fig. B-15 will be displayed.

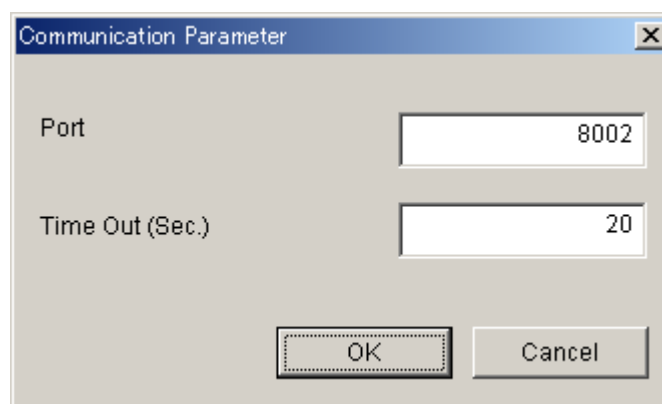


Fig. B-15

- 2) Make entries for each item.



For details on each item, see 2-5-1 "Port" (page 177) and 2-5-2 "Time Out" (page 177).

- 3) Click the [OK] button.

The entered parameter settings are adopted and the dialog box closes.



1. If the "Port" setting has been changed, you will have to exit MORI-SERVER (DSN) and restart it. The changed "Port" setting will not come into effect until the program has been restarted.
2. Click the [Cancel] button to close the dialog box without adopting the entered parameter settings.

2-5-1 Port

Specify the port number to be used for communications.



1. Enter a numerical value.
2. Normally, use the default "8002". If other software is already using this port, change the setting for this parameter.
3. MORI-SERVER (DSN) must be restarted to bring the changed parameter setting into effect.
4. This parameter setting can only be changed by an operator with Administrator rights.



The person who changes this parameter setting must have an adequate knowledge of the system. If a port number that is being used by another software program is designated, problems could be caused in that software program. Generally you are recommended to use a high number (8000's or higher).



If you change the setting for this parameter, set the same port number at the unit running MAPPS too. If there is a discrepancy between the setting for this parameter and the MAPPS port number setting, communications will not be possible.

2-5-2 Time Out

Specify the time until a communications time out.



1. Enter a numerical value.
2. If the time set for this parameter is too short, time out may occur if processing takes some time, so make the setting 20 seconds or longer.
3. This time may differ from the actual time-out time.

2-6 Log Setting

- 1) Click on "Log" in the "Setting" pull-down menu.



Fig. B-16

The "MORI-SERVER (DSN) Log Parameter" dialog box is displayed as indicated in Fig. B-17.

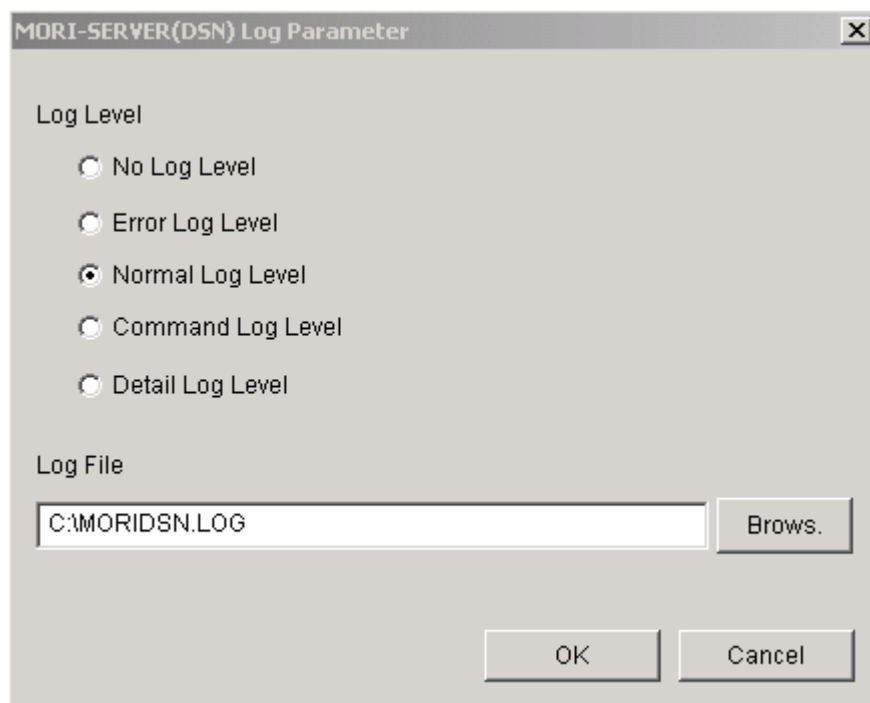


Fig. B-17

- 2) Make entries for each item.



For details, see 2-6-1 "Log Level" (page 179) and 2-6-2 "Log File" (page 179).

- 3) Click the [OK] button.

The entered parameter settings are adopted and the dialog box closes.



Click the [Cancel] button to close the dialog box without adopting the entered parameter settings.

2-6-1 Log Level

Specify the log file output level.

- No Log Level
Log output is not executed.
- Error Log Level
A log is output only in the event of errors such as communication errors.
- Normal Log Level
In addition to the log that is output in the Error Log Level, a log is also output when a folder is created and when files are uploaded or downloaded.
- Command Log Level
In addition to the log that is output in the Normal Log Level, a log of the command details is output when a command is received from MAPPS II/III/IV.
- Detail Log Level
In addition to the log that is output in the Command Log level, a log of more detailed information about the error is also output.



When you set "Normal Log Level", a log that can be used as the access log for file access is created.



For details on log contents, see 5 "COMMUNICATION LOG" (page 197).

2-6-2 Log File

Specify the full path for the log file output destination.



For details on log files, see 5 "COMMUNICATION LOG" (page 197).

2-7 File Input/Output Settings

- 1) Click on "File I/O" in the "Option" pull-down menu.



Fig. B-18

The "File Input/Output Parameter" dialog opens, as indicated in Fig. B-19.

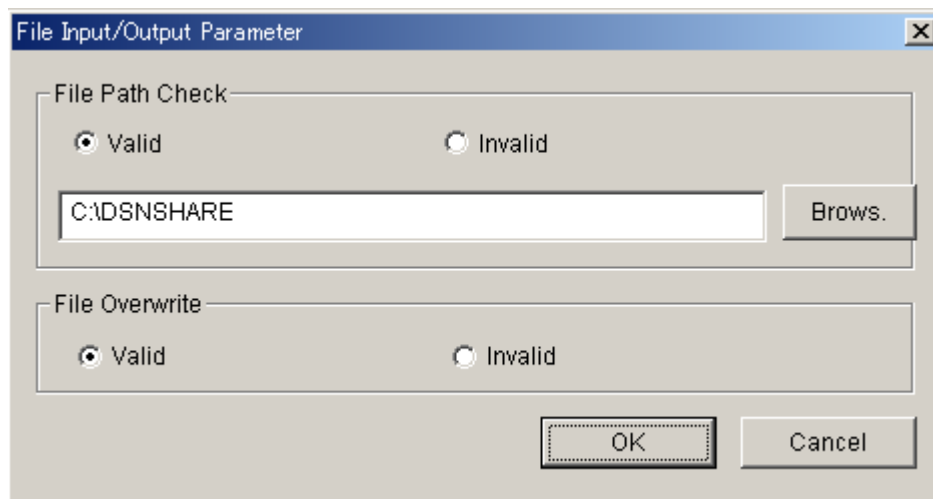


Fig. B-19

- 2) Make entries for each item.



For details on each item, see 2-7-1 "File Path Check" (page 181) and 2-7-2 "File Overwrite" (page 181).

- 3) Click the [OK] button.

The entered parameter settings are adopted and the dialog box closes.



Click the [Cancel] button to close the dialog box without adopting the entered parameter settings.

2-7-1 File Path Check

Select whether restrictions on communication destinations from MAPPS II/III/IV are effective or not.

When this function is effective, MAPPS II/III/IV can only access the folder specified here or files at lower levels than this folder.



When specifying a folder, append "\" to it.

2-7-2 File Overwrite

Select whether file overwriting is enabled or disabled.



This setting is only effective when using a communications functions that overwrites file contents (meaning that the existing file contents are lost). When using a communications function that adds data at the end of the existing file (such as the DPRINT function), these file contents are not overwritten regardless of the setting made here.

2-8 IP Address Recognition Function Setting

- 1) Click on "IP Address" in the "Option" pull-down menu.



Fig. B-20

The "IP Address Check" dialog box will open as indicated in Fig. B-21.

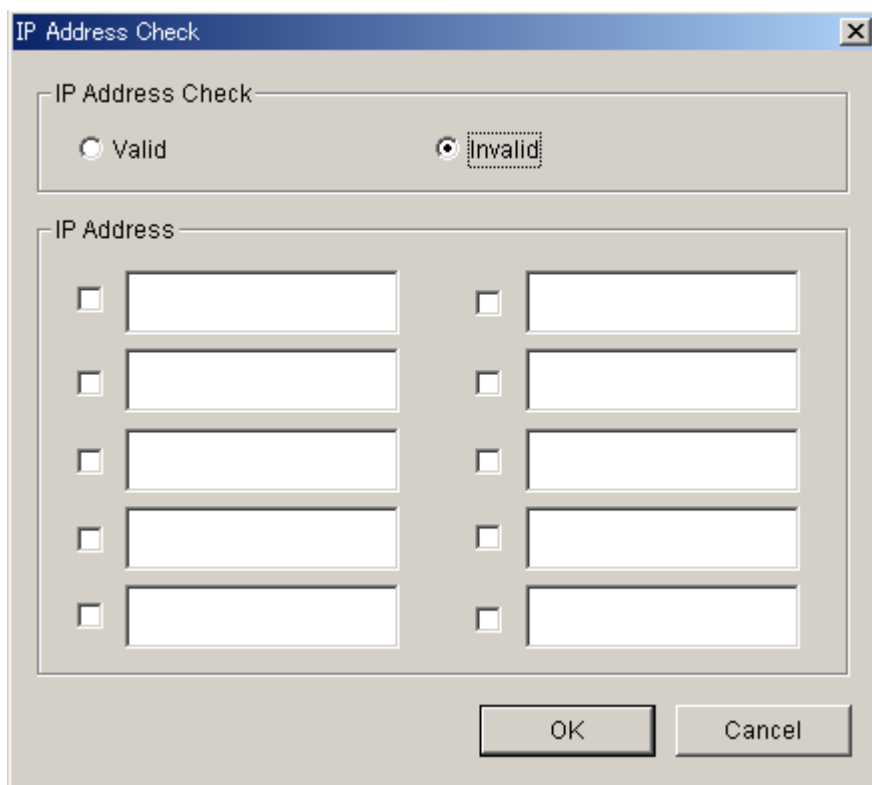


Fig. B-21

- 2) Make entries for each item.



For details on each item, see 2-8-1 "IP Address Check" (page 183) and 2-8-2 "IP Address" (page 183).

- 3) Click the [OK] button.

The entered parameter settings are adopted and the dialog box closes.



Click the [Cancel] button to close the dialog box without adopting the entered parameter settings.

2-8-1 IP Address Check

Select whether the IP address recognition function is used or not.

2-8-2 IP Address

When use of the IP address recognition function is selected, communication is enabled only from the IP address whose checkbox is ticked among the registered IP addresses.





A wildcard "*" can be used in this setting. If you do use a wild card, use it in a format whereby one delimiter among eight bits can be replaced with "*", like this: "xxx.xxx.xxx.*". Usages such as "xxx.xxx.*" and "xxx.xxx.xxx.1*" are not acceptable.

3 PARAMETER SETTINGS AT THE MAPPS SIDE

The network parameters to be set at the MAPPS and related to the MORI-SERVER (DSN) are described below.

MEM	***	***	***		0.00inch/min	07500	N00002
				0%	0min-1		
NETWORK PARAMETER						20:17:53	
SERVER IP ADDRESS	192.168.0.2						
PORT NUMBER	8002						
SERVER DIRECTORY	C:\MORIDSN						
TIME OUT(SEC.)	20						
USER ID							
PASSWORD							
DOMAIN NAME							
<div>< [] [] [] [] [] [] [] [] SET CANCEL ></div>							

 Depending on the software version of the MAPPS, other parameter items may be displayed at the screen. However, only the parameters shown above are related to the MORI-SERVER (DSN).


 CHAPTER A, 1-4-1-1 "Setting TCP/IP Parameters"

3-1 Port Number


Set the same number as set for "port" at the MORI-SERVER (DSN).

3-2 Server Directory

A path name that can be used for this product may contain up to 45 characters including a file name. Set the directory name taking this limit into account.

 A file name is designated in the "8.3 format" (file name: max. 8 characters, extension: max. 3 characters). Therefore, a path name can use up to 32 characters to secure the size for a file name.

To allow changing of the input/output destination folder, the path name to be set here should be as short as practicable.

 If the MORI-SERVER (DSN) is connected to multiple MAPPSs, the path name to be set for SERVER DIRECTORY must not be a sub-folder that is set under a path name of any other MAPSSs. Otherwise, access takes place to the same folder that may destroy the data.

3-3 User ID

Always set "VER0100" to make communications with this product.



This setting is valid only for this product. To connect to the MORI-SERVER (DSN) of other version, set the user ID according to the instructions given in the instruction manual of the corresponding product.

3-4 Password

Inputting is not necessary if communication is made with this product.



This setting is valid only for this product. To connect to the MORI-SERVER (DSN) of other version, set the password according to the instructions given in the instruction manual of the corresponding product.

3-5 Domain Name

Inputting is not necessary if communication is made with this product.



This setting is valid only for this product. To connect to the MORI-SERVER (DSN) of other version, set the domain name according to the instructions given in the instruction manual of the corresponding product.


4 **PARAMETER SETTINGS AT THE MAPPS II/III/IV SIDE**

4-1 **MORI-DSN Function Settings**



CHAPTER A, 1-4-2-1 "Setting TCP/IP Parameters"

Open the MORI-DSN FUNCTION SETTING screen at the unit running MAPPS II/III/IV as follows.

- 1) Press the  (SYSTEM) key among the function keys on the MAPPS operation panel.
The screen indicated in Fig. B-22 will be displayed.
- 2) Press the menu selection key [**<**].

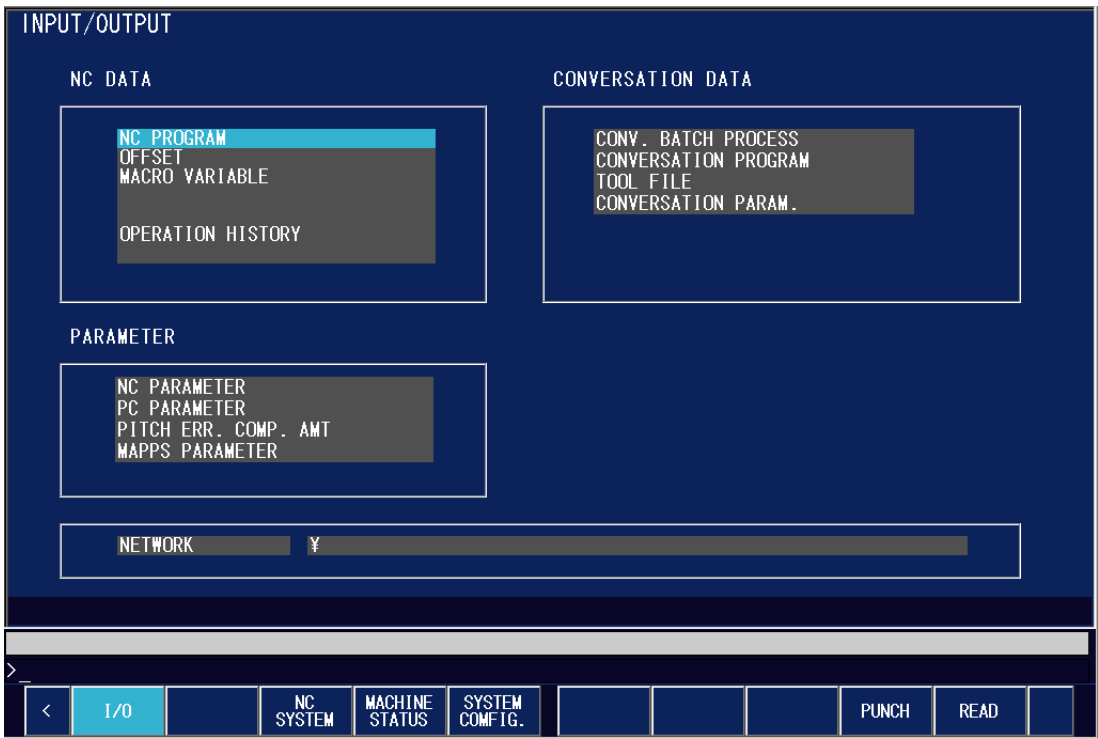


Fig. B-22

The soft-keys will change as indicated in Fig. B-23.

- 3) Press the [**COMM. SETNG**] soft-key button.



Fig. B-23

The NETWORK SETTING screen is displayed as indicated in Fig. B-24.



Fig. B-24



Depending on the MAPPS II/III/IV setting, it may not be possible to select some items.

4) Enter "4" with the data entry keys.

5) Press the  (INPUT) key.

The MORI-DSN FUNCTION SETTING screen is displayed, as indicated in Fig. B-25.

MORI-DSN FUNCTION SETTING

COMMUNICATION PORT SETTING

PORT NUMBER 8002

TIME OUT (sec.) 5

COMMUNICATION TARGET SETTING

COMMUNICATION TARGET IP ADDRESS 192.168.0.2

COMMUNICATION TARGET DIRECTORY C:\MORIDSN

USER SETTING

USER ID VER0200

PASSWORD

Navigation bar: MORI DSN, SERVER BASIC, SERVER DETAIL, GET, RETURN

Fig. B-25



Depending on the software version at the unit running MAPPS, additional items may be displayed, but they cannot be used with this software.

6) Make settings for each item



For details, see the section below.

- 4-1-1 "Port Number"
- 4-1-2 "Response Waiting Time"
- 4-1-3 "IP Address of Communication Destination"
- 4-1-4 "Communication Destination Directory"
- 4-1-5 "User ID"
- 4-1-6 "Password"

7) Press the **[SET]** soft-key.

4-1-1 Port Number

Specify the same port as set at the MORI-SERVER (DSN) side.

4-1-2 Response Waiting Time

Specify the time until a communications time out.



If the set time period for the time-out error is too short, a time-out error may occur while a process that takes time is in progress. In normal operation, set the time period for the time-out error to 20 or more seconds.

4-1-3 IP Address of Communication Destination

Specify the IP address at the MORI-SERVER (DSN) side.

4-1-4 Communication Destination Directory

This product supports path names of up to 45 characters in length, including the filename. Set path names on this basis.



The format for filenames is 8:3 (maximum of eight characters in the main filename and maximum of three characters in the extension). Once you have assured the number of characters for the filename, no more than 32 characters can be set for the path.

In order to make it possible to change the input/output destination folder too, you are recommended to make the path name set here a short one.



When connected to multiple MAPPS units, do not set the server directory path name set for any of these MAPPS units in a subfolder under a path name set for any of the other MAPPS units. This could lead to multiple accesses to the same folder and resulting loss of data.



It is possible to set the communication destination directory for punching (outputting data) and reading (inputting data) separately. Refer to 4-2 "Setting the Communication Destination Directories" (page 190) for details.

4-1-5 User ID

To communicate with this product, set "VER0200".



This setting is effective with this product only. If you are using a different MORI-SERVER (DSN) version, set a value in accordance with the instruction manual for that version.

4-1-6 Password


There is no need to enter a password to communicate with this product.



This setting is effective with this product only. If you are using a different MORI-SERVER (DSN) version, set a value in accordance with the instruction manual for that version.

4-2 Setting the Communication Destination Directories

This section describes how to set the destination directory for punching (outputting data) and reading (inputting data) individually. Make settings by following the procedures given below.

- 1) Press the function selection key  (SYSTEM) on the MAPPS operation panel.

The screen indicated in Fig. B-26 will be displayed.

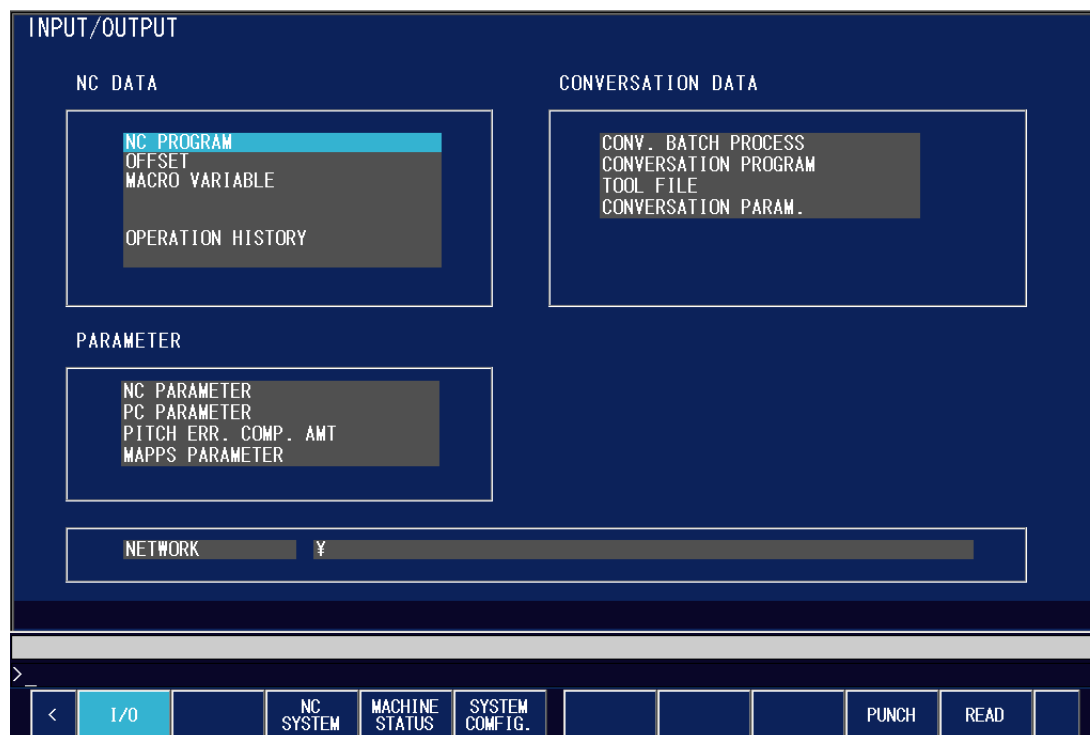


Fig. B-26

- 2) Press the menu selection key [**<**].

The soft-keys will change as indicated in Fig. B-27.



Fig. B-27

- 3) Press the **[MAPPS PARAM.]** soft-key.

- 4) Set bit 1 of MAPPS parameter No. 7 to "1" and press the **[SET]** soft-key.

MAPPS PARAMETER																			
No.	7	6	5	4	3	2	1	0	SUM	No.	7	6	5	4	3	2	1	0	SUM
0	0	0	0	0	0	0	1	1	3	16	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	1	1	20	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	1	0	2	23	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0

Fig. B-28

**WARNING**

The parameters are set on shipment in accordance with the machine specifications; do not change the parameters that are not specified in the manuals provided by Mori Seiki. Changing the settings of such parameters may lead to unexpected machine operations and result in accidents involving injuries and machine damage. Contact the Mori Seiki service department if it is necessary to change the settings of such parameters.

- 5) After making necessary MAPPS parameter settings, display the MORI-DSN FUNCTION SETTING screen. Confirm that the display of the communication destination setting is changed as shown in Fig. B-28.



For details on the procedure to display the screen, refer to 4-1 "MORI-DSN Function Settings" (page 186).

MORI-DSN Function Setting

COMMUNICATION PORT SETTING

Port Number 8002

Time out(sec.) 5

(1) COMMUNICATION TARGET SETTING(PUNCH)

COMMUNICATION TARGET IP ADDRESS 192.168.0.100

COMMUNICATION TARGET DIRECTORY C:\MORIDSN

(2) COMMUNICATION TARGET SETTING(READ)

COMMUNICATION TARGET IP ADDRESS 192.168.10.65

COMMUNICATION TARGET DIRECTORY C:

USER SETTING

USER ID VER0200

PASSWORD

> ^

MORI DSN SERVER BASIC SERVER DETAIL GET RETURN

Fig. B-29

<Displayed items>

Num ber	Display Item	Description
(1)	COMMUNICATION TARGET SETTING (PUNCH)	Specify the IP address of the communication destination PC and the directory to output data to for punching (outputting data).
(2)	COMMUNICATION TARGET SETTING (READ)	Specify the IP address of the communication destination PC and the directory containing the data to be read (data input).



For details on the data format and cautionary items, refer to 4-1 "MORI-DSN Function Settings" (page 186).

- 6) Confirm that the communication target directory displayed under the "NETWORK" item on the INPUT/OUTPUT screen has been changed as shown in Fig. B-30.

NETWORK	PUNCH	192.168.0.100	¥
	READ	192.168.10.65	¥


Fig. B-30

4-3 Directory Tree Display Setting

It is possible to change how directories and files are displayed on the FOLDER SELECTION screen while carrying out data punching or reading operation through a network using the PROGRAM screen or the INPUT/OUTPUT screen.

By default, up to 98 directories or 100 files can be displayed on the screen, also the directory tree cannot be expanded.

To display directories and files beyond these limits or to display the expanded directory tree, change the settings of MAPPS parameters by following the procedure below.

- 1) Press the function selection key  (SYSTEM) on the MAPPS operation panel.

The screen indicated in Fig. B-31 will be displayed.

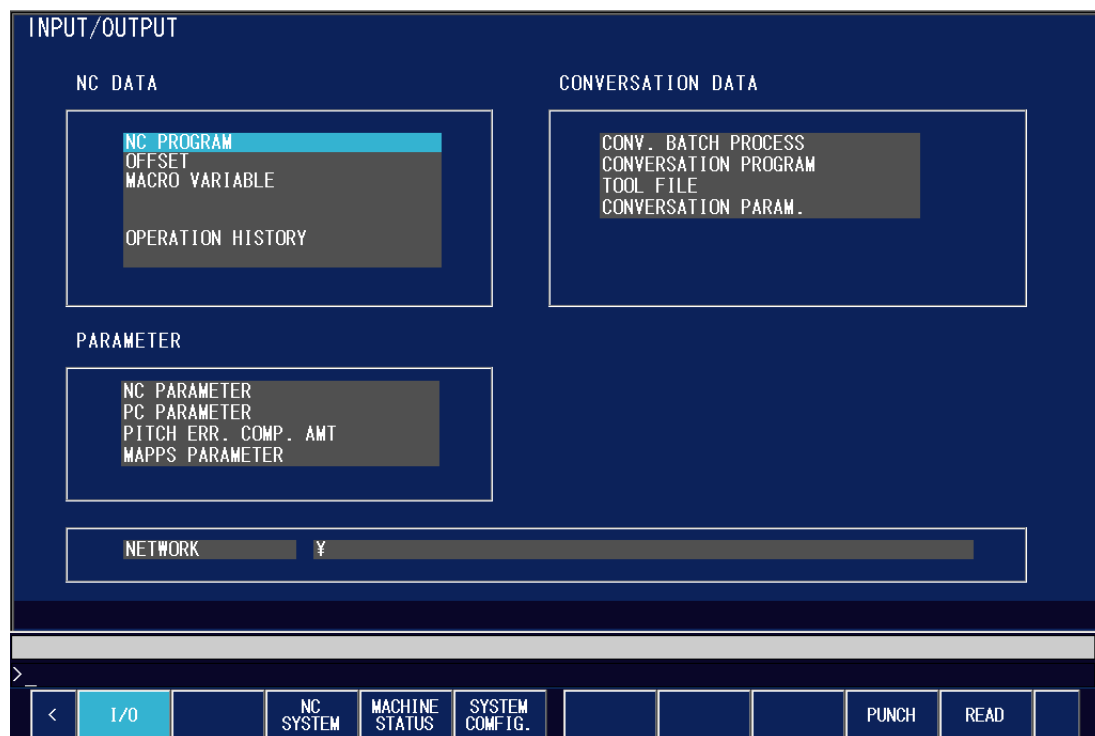


Fig. B-31

- 2) Press the menu selection key [**<**].

The soft-keys will change as indicated in Fig. B-32.



Fig. B-32

- 3) Press the **[MAPPS PARAM.]** soft-key.

- 4) Set one of the following values to MAPPS parameter No. 2024.


MAPPS PARAMETER

CHAR TYPE 39/51

No.	DATA	No.	DATA	No.	DATA	No.	DATA
2016	0	2032	0	2048	0	2064	0
2017	0	2033	0	2049	0	2065	0
2018	0	2034	0	2050	0	2066	0
2019	0	2035	0	2051	0	2067	0
2020	0	2036	0	2052	0	2068	0
2021	0	2037	0	2053	0	2069	0
2022	0	2038	0	2054	0	2070	0
2023	0	2039	0	2055	0	2071	0
2024	1	2040	0	2056	0	2072	0
2025	0	2041	0	2057	0	2073	0
2026	0	2042	0	2058	0	2074	0
2027	0	2043	0	2059	0	2075	0
2028	0	2044	0	2060	0	2076	0
2029	0	2045	0	2061	0	2077	0
2030	0	2046	0	2062	0	2078	0
2031	0	2047	0	2063	0	2079	0



< MAPPS PARAM. COMM. SETNG No. SEARCH SET

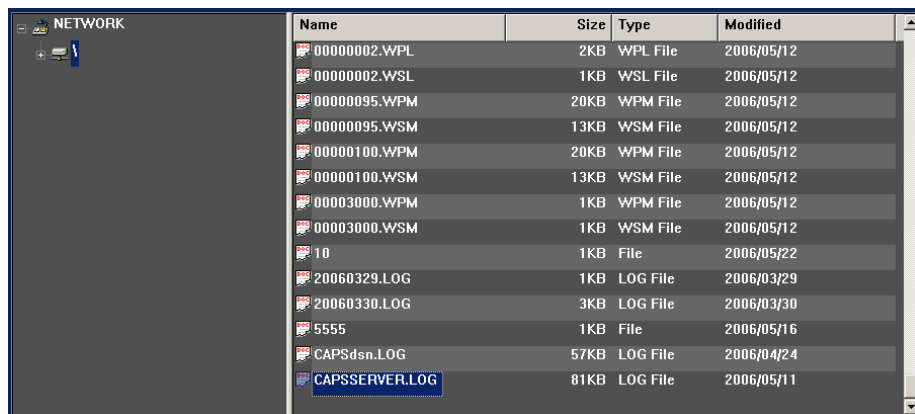
Fig. B-33

Value	Description	Description
0	Expand directory tree (Directory and file display limits: 98 directories or 100 files)	As with the input/output operation from/to a memory card, the expanded directory tree is displayed to the left of file list.  If the nesting level of the directories to be accessed is deep or a large number of directories exist in the communication destination PC, data transfer will take longer.
1	Do not expand directory tree (Directory and file display limits: 98 directories or 100 files)	This is the default setting. The directory tree shows all the directories in the path between the root directory and the directory currently being displayed.
2	Expand directory tree (No limit imposed on the number of directories and files to be displayed)	The directory tree shows all the directories in the path between the root directory and the directory currently being displayed.

When MAPPS parameter No. 2024 is set to "2", files to be displayed can be controlled on the FOLDER SELECTION screen in the procedure below.

<Example: Select the files to be displayed on the FOLDER SELECTION screen>

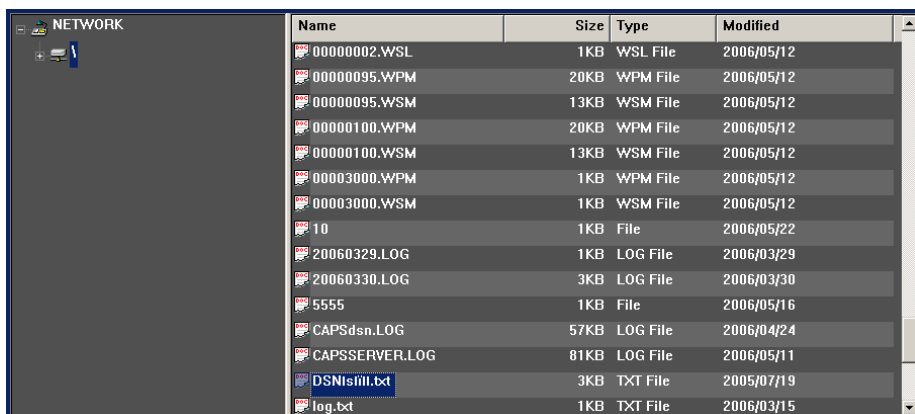
- a) When the FOLDER SELECTION screen is displayed after changing the parameter setting, up to 199 directories and files are displayed in the list.
- b) To display files beyond the current list, press the cursor control key  or the page selection key  while selecting the file at the bottom of the current list.



Name	Size	Type	Modified
00000002.WPL	2KB	WPL File	2006/05/12
00000002.WSL	1KB	WSL File	2006/05/12
00000095.WPM	20KB	WPM File	2006/05/12
00000095.WSM	13KB	WSM File	2006/05/12
00000100.WPM	20KB	WPM File	2006/05/12
00000100.WSM	13KB	WSM File	2006/05/12
00003000.WPM	1KB	WPM File	2006/05/12
00003000.WSM	1KB	WSM File	2006/05/12
10	1KB	File	2006/05/22
20060329.LOG	1KB	LOG File	2006/03/29
20060330.LOG	3KB	LOG File	2006/03/30
5555	1KB	File	2006/05/16
CAPSdsn.LOG	57KB	LOG File	2006/04/24
CAPSSERVER.LOG	81KB	LOG File	2006/05/11



Fig. B-34

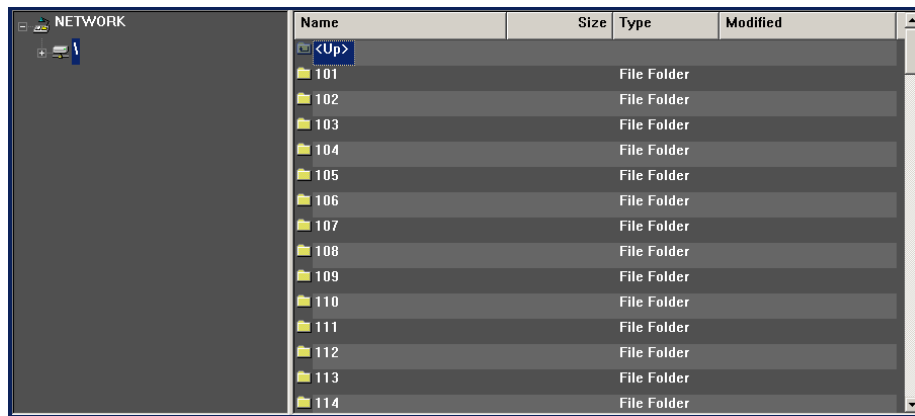
- c) The next 100 files will be displayed as shown in Fig. B-35.



Name	Size	Type	Modified
00000002.WSL	1KB	WSL File	2006/05/12
00000095.WPM	20KB	WPM File	2006/05/12
00000095.WSM	13KB	WSM File	2006/05/12
00000100.WPM	20KB	WPM File	2006/05/12
00000100.WSM	13KB	WSM File	2006/05/12
00003000.WPM	1KB	WPM File	2006/05/12
00003000.WSM	1KB	WSM File	2006/05/12
10	1KB	File	2006/05/22
20060329.LOG	1KB	LOG File	2006/03/29
20060330.LOG	3KB	LOG File	2006/03/30
5555	1KB	File	2006/05/16
CAPSdsn.LOG	57KB	LOG File	2006/04/24
CAPSSERVER.LOG	81KB	LOG File	2006/05/11
DSNisfil.txt	3KB	TXT File	2005/07/19
log.txt	1KB	TXT File	2006/03/15

Fig. B-35

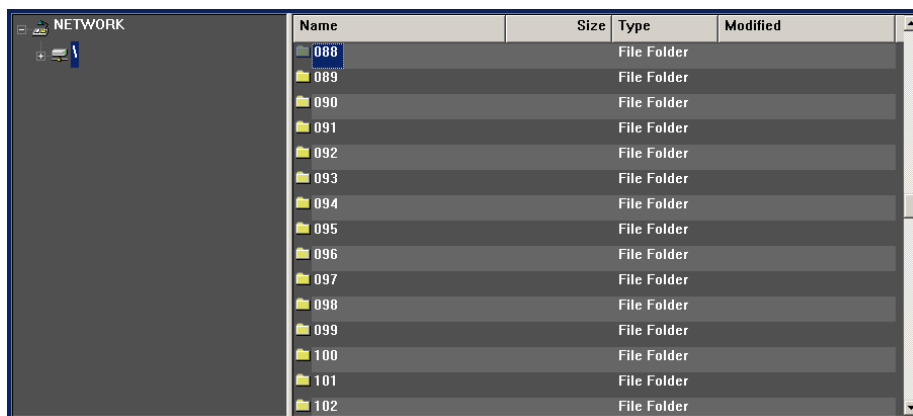
- d) To display files preceding the current list, press the cursor control key  or the page selection key  while selecting "<Up>" at the top of the current list.



Name	Size	Type	Modified
<Up>			
101		File Folder	
102		File Folder	
103		File Folder	
104		File Folder	
105		File Folder	
106		File Folder	
107		File Folder	
108		File Folder	
109		File Folder	
110		File Folder	
111		File Folder	
112		File Folder	
113		File Folder	
114		File Folder	

Fig. B-36

- e) The previous 100 files will be displayed as shown in Fig. B-37.



Name	Size	Type	Modified
088		File Folder	
089		File Folder	
090		File Folder	
091		File Folder	
092		File Folder	
093		File Folder	
094		File Folder	
095		File Folder	
096		File Folder	
097		File Folder	
098		File Folder	
099		File Folder	
100		File Folder	
101		File Folder	
102		File Folder	

Fig. B-37

5 COMMUNICATION LOG

5-1 Communication Message

When communication is performed, a message like the one shown below is displayed in the MORI-SERVER (DSN) window.

IP address	When communications are performed, the IP address of the MAPPS unit that initiated communication is indicated.
NORMAL END	Displayed when communication and processing are ended normally
LOGIN ERROR	Displayed on failing to log in to MORI-SERVER (DSN) for communication. Check if the user ID, password and domain name are set correctly at the MAPPS side.
DIR(1) ERROR	Displayed when an error occurs with a directory list request
DIR(2) ERROR	Displayed when an error occurs with a file list request
SEARCH ERROR	Displayed when an error occurs with a file search
CHANGE DIRECTORY ERROR	Displayed when an error occurs when attempting to move a directory
MAKE DIRECTORY ERROR	Displayed when an error occurs when creating a directory
COMMUNICATION ERROR	Displayed when an error occurs in communication
READ(DOWN LOAD) ERROR	Displayed when an error occurs while reading (downloading) a file
PUNCH(UP LOAD) ERROR	Displayed when an error occurs while punching (uploading) a file

5-2 Format for Communication Logs

Communication logs are output in the following format.

<Log file format>

yyyy/mm/dd hh:mm:ss, <aaa.aaa.aaa.aaa>, [cccc], mmmmmm, dddddd

1. yyyy/mm/dd

The date when the log was output is indicated as a four-digit year - month - day indication (in this order).

2. hh:mm:ss

The time when the log was output is shown in an hour - minute - second indication.

3. <aaa.aaa.aaa.aaa>

The IP address of the MAPPS unit that initiated communication is indicated here.

4. [cccc]

The function code (details given later) is indicated here.

5. mmmmmm

The message code (details given later) is indicated here.

6. dddddd

If there is data associated with the message, that data is displayed.

Since log files are output as text files, they can be opened using programs such as editors.



When a log file is opened during operation of MORI-SERVER (DSN), the log for this period is not output.



Since a log is incremented sequentially, its size increases. When it has become large, either save it under a different filename, or, if there is no need to save it, delete the file.

5-3 Function Codes

The main function codes that are output in logs are indicated below.

Function Codes	Explanation
DISP	Communication message display functions
IRDF	Function for file downloads from MORI-SERVER (DSN) to MAPPS
IWTF	Function for file uploads from MAPPS to MORI-SERVER (DSN)
MKFD	Folder creation functions
DIRV	MAPPS file list display function
CGDR	Directory move function
FLCK	File search function
SKTH	Function for receiving communication requests from MAPPS
RCV5	Communication functions
ACKS	Communication functions
ACKR	Communication functions
ARST	Communication functions
LGIN	Login and access rights recognition function
LGUH	Login and access rights recognition function
ACCS	Login and access rights recognition function
ACCK	Login and access rights recognition function

5-4 Message Codes

The main message codes that are output in logs are indicated below

Message Codes	Explanation
COMDDR01	Directory list display request
COMDDR02	File list display request
COMDFD05	File search request
COMDMD08	Folder creation request
COMDDL13	Folder download request
COMDUP14	Folder upload request
FILEDL00	Download folder
FILEUP00	Upload folder
MKDRSC00	Create folder

5-5 Example of Communication Log

An example of a simple communication log is presented below, together with an explanation of its meaning.

(1)	2000/01/01 00:00:00 , <255.255.255.255> , [MKFD] , MKDRSC00 , C:\NC\FOLDER
(2)	2000/01/01 00:01:00 , <255.255.255.255> , [IWTF] , FILEUP00 , C:\NC\FOLDER\OFFSET.OFS
(3)	2000/01/02 01:00:00 , <255.255.255.255> , [IRDF] , FILEDL00 , C:\NC\FOLDER\OFFSET.OFS

Suppose we have a log like the one above:

This means that at (1), in accordance with a command from the MAPPS unit at IP address 255.255.255.255 at 0 hours 0 minutes 0 seconds on January 1, 2000, the folder C:\NC was created in the folder "FOLDER".

This means that at (2), in accordance with a command from the MAPPS unit at IP address 255.255.255.255 at 0 hours 1 minute 0 seconds on January 1, 2000, OFFSET.OFS was uploaded into C:\NC\FOLDER.

This means that at (3), in accordance with a command from the MAPPS unit at IP address 255.255.255.255 at 1 hour 0 minutes 0 seconds on January 2, 2000, the file C:\NC\FOLDER\OFFSET.OFS was downloaded.

6 NETWORK DRIVE

Instead of MORI-DSN, the shared folder can be allocated to a network drive where the data is input and output in MAPPS II/III/IV.

To use the network drive, the setting described below (6-1, 6-2) is required.

6-1 Setting at the PC

Set up the folder in the PC for input/output to access the network.

<Procedure>


- 1) Right-click on the folder.
- 2) From "Sharing and Security", open the **[Sharing]** tab.
- 3) Select the "Share this folder" radio button.



Specify the shared folder name using alphanumeric characters.

6-2 Parameter Setting at MAPPS II/III/IV

Make the setting to validate input/output to/from the network drive by following the procedure below.

- 1) Press the  (SYSTEM) function selection key on the MAPPS operation panel. The "INPUT/OUTPUT" screen will be displayed (Fig. B-38).

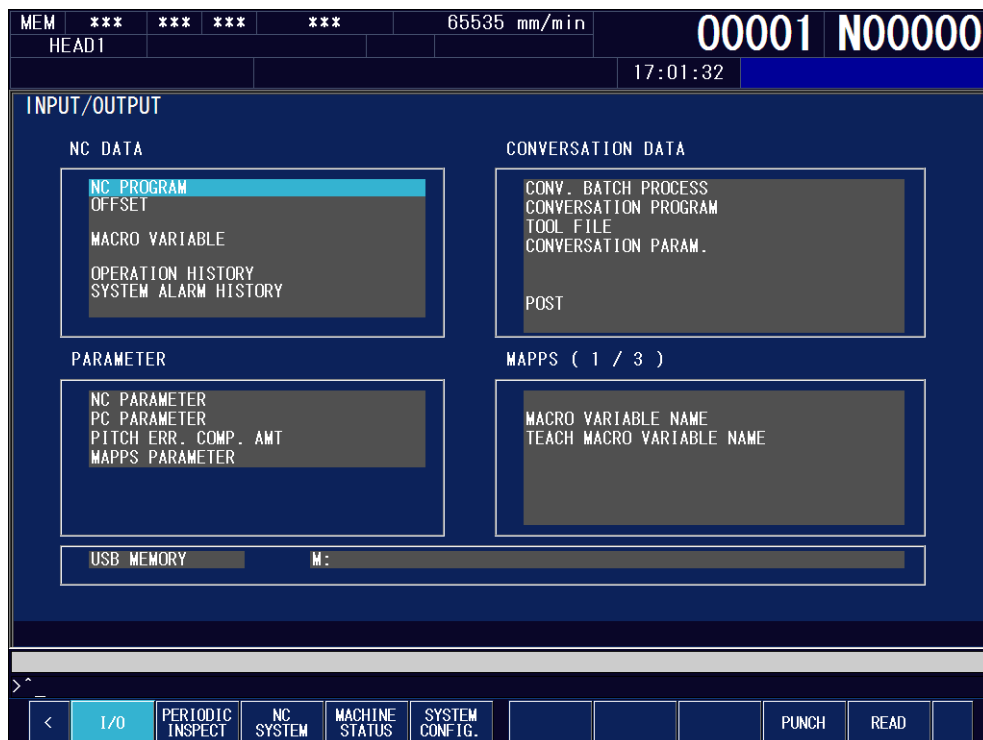


Fig. B-38

- 2) Press the menu selection key [**<**].
The soft-keys will change (Fig. B-39).



Fig. B-39

- 3) Press the **[MAPPS PARAM.]** soft-key.
- 4) Set MAPPS parameter No. 1340 to "1" and press the **[SET]** soft-key.



After changing the setting, the power must be turn OFF and back ON.

This completes the parameter setting (Fig. B-40).



Fig. B-40

- 5) Press the **[COMM.SETNG]** soft-key.

The NETWORK FUNCTION SETTING screen is displayed (Fig. B-41).




Fig. B-41



Depending on the MAPPS II/III/IV setting, some items may not be selectable.

- 6) Enter "4" with the data entry keys.

7) Press the  (INPUT) key.

The MORI-DSN Function Setting screen is displayed (Fig. B-42).

MEM	***	***	***	***	65535 mm/min	00001	N00000
HEAD1						17:02:16	
MORI-DSN Function Setting							
COMMUNICATION PORT SETTING							
Port Number						8002	
Time out(sec.)						5	
COMMUNICATION TARGET SETTING							
COMPUTER NAME/IP ADDRESS						192.168.2.20	
COMMUNICATION TARGET DIRECTORY						C:\CAPSDSN	
USER SETTING							
USER ID						VER0200	
PASSWORD							
> ^							
	MORI DSN	SERVER BASIC	SERVER DETAIL	Network Drive		() INPUT	GET
							RETURN

Fig. B-42

8) Press the **[Network Drive]** soft-key.

The NETWORK DRIVE SETTING screen is displayed (Fig. B-43).

MEM	***	***	***	***	65535 mm/min	00001	N00000
HEAD1						17:03:18	
NETWORK DRIVE SETTING()							
FUNCTION SETTING							
NETWORK DRIVE Function						VALID	
						INVALID	
COMPUTER NAME/IP ADDRESS (MANDATORY)							
Share Folder Name (MANDATORY)							
User Name (MANDATORY)							
PASSWORD (MANDATORY)							
> ^							
	MORI DSN	SERVER BASIC	SERVER DETAIL	Network Drive	CAPITAL LETTER	() INPUT	GET
							SET
							RETURN

Fig. B-43

9) Set each item.



For details, refer to each section below.

6-2-1 "NETWORK DRIVE Function" (page 205)

6-2-2 "COMPUTER NAME/IP ADDRESS" (page 205)

6-2-3 "Share Folder Name" (page 205)

6-2-4 "User Name" (page 205)

6-2-5 "PASSWORD" (page 205)

10) Press the **[SET]** soft-key.

6-2-1 NETWORK DRIVE Function

Select "VALID" to input/output to/from the network drive.

6-2-2 COMPUTER NAME/IP ADDRESS

Enter the name of the computer where the shared folder is located, or IP address.

6-2-3 Share Folder Name

Enter the shared folder name.

6-2-4 User Name

Enter the user name to access the shared folder.

6-2-5 PASSWORD

Enter the user's password to access the shared folder.

CHAPTER C

TROUBLESHOOTING

This chapter describes the points to be checked before making an inquiry if you have failed in telecommunications with the MORI-SERVER or MORI-SERVER (DSN).

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1 TROUBLESHOOTING ON NETWORK CONNECTION

If you have failed in telecommunications with the MORI-SERVER or MORI-SERVER (DSN), check the following points.

<Physical connection & TCP/IP connection>

1. Check that the LAN cable is connected securely.
 - Are appropriate cable types (straight or cross) are used?
 - When using a hub or router, is the power supplied to the device?
 - Is the LAN cable for FANUC data server connected by mistake?
(An ordinary LAN cable different from the one for FANUC data server is required.)
2. Check that TCP/IP is correctly configured on the MAPPS.
 - Are setting values on the NETWORK BASIC SETTING screen ([SYSTEM] - [COMM. SETTING] - [1]) correct?
 - Is the IP address correctly configured?
 - Is the IP address assigned to the MAPPS used for another device by mistake?
 - Is the IP address used for the FANUC data server configured by mistake?
 - Is a unique IP address assigned for the MAPPS on each machine?
 - Is "Subnet Mask" configured correctly?
 - Is "Default Gateway" configured correctly if connection is made with a router?
3. Perform the following steps to verify the configuration from the PC.
 - 1) Select "Run" from the "Start" menu and input "CMD" to open the "Command Prompt" window.
 - 2) Type "ping xxx.xxx.xxx.xxx" (xxx.xxx.xxx.xxx: MAPPS IP address) and press the [Enter] key.
 - 3) Verify the displayed message.
 - Connection is established. (Some message contents may differ.)
Pinging xxx.xxx.xxx.xxx with 32 bytes of data
Reply from xxx.xxx.xxx.xxx: bytes = 32 time<10ms TTL=255
 - Connection is not established. (Some message contents may differ.)
Pinging xxx.xxx.xxx.xxx with 32 bytes of data
Request time out.

4. Perform the following steps to verify the configuration from the MAPPS.
 - 1) Display the NETWORK BASIC SETTING screen by selecting [SYSTEM] - [COMM. SETTING] - [1] "NETWORK BASIC SETTING".
 - 2) Type "xxx.xxx.xxx.xxx" (xxx.xxx.xxx.xxx: PC IP address) and press the **[PING]** (F6) soft-key.
 - 3) Verify the displayed message.
 - Connection is established.
The message "The specified address already exists." is displayed.
 - Connection is not established.
The message "The specified address does not exist." is displayed.



If telecommunications are not possible in step 4. though network connection is confirmed in step 3., the PC may be blocking telecommunications. In such a case, it is necessary to change the configuration so that telecommunications can be performed through the security software or a firewall installed on the PC.

2 MORI-SERVER TROUBLESHOOTING

If you have failed in telecommunications with the MORI-SERVER, check the following points in addition to those described in 1 "TROUBLESHOOTING ON NETWORK CONNECTION".

<MAPPS setting>

1. Check that the MAPPS is configured correctly.
 - Are setting values on the SERVER BASIC screen ([SYSTEM] - [COMM. SETTING] - [4] "NETWORK I/O SETTING" - [F2]) correct?
 - Is the port number assigned on the PC configured?
 - Is the port number to be used for the MORI-SERVER (DSN) configured by mistake? (It is necessary to specify a port number different from the one to be used for the MORI-SERVER (DSN).)
 - Is "TIMEOUT" configured at an appropriate time (more than 20 seconds)?
 - Is "MAIN FUNCTION" enabled?
 - Have you registered the configuration?
 - Have you rebooted the MAPPS II/III/IV after you changed the port number?

<PC setting>

1. Check that the software on PC is configured correctly.
 - Is the port number assigned to the MAPPS configured correctly?
 - Is "TIMEOUT" configured at an appropriate time (more than 20 seconds)?
 - Have you saved the configuration?
 - Have you rebooted software on the PC after you changed the port number?
2. Check the PC is configured correctly.
 - Is the IP address assigned to the PC authenticated on the MAPPS?
 - Are "USER NAME" and "PASSWORD" input correctly when "USER AUTHORIZATION FUNCTION" is enabled?
 - Is the operation permitted on the SERVER DETAIL screen ([SYSTEM] - [COMM. SETTING] - [4] "NETWORK I/O SETTING" - [F3])?

3 MORI-SERVER (DSN) TROUBLESHOOTING

If you have failed in telecommunications with the MORI-SERVER (DSN), check the following points in addition to those described in 1 "TROUBLESHOOTING ON NETWORK CONNECTION".

<MAPPS setting>

1. Check that the MAPPS is configured correctly.

- Are setting values on the Network I/O Setting screen ([SYSTEM] - [COMM. SETTING] - [4]) correct?
- Is the port number assigned on the PC configured?
- Is the port number to be used for the MORI-SERVER configured by mistake? (It is necessary to specify a port number different from the one to be used for the MORI-SERVER.)
- Is "TIMEOUT" configured at an appropriate time (more than 20 seconds)?



Confirm that the value for the timeout at the PC is configured at more than 20 seconds.

- Is the target PC's IP address configured correctly?
 - Is the correct directory pathname (including the drive) specified for "COMMUNICATION TARGET DIRECTORY"? (Example: C:\NC)
 - Does the directory specified for target directory exist on the PC?
 - Is the target directory pathname too long?
 - Is the correct "USER ID" (VER0200) configured?
 - Is "PASSWORD" left blank?
 - Have you registered the configuration?
 - Have you rebooted the MAPPS II/III/IV after you changed the port number?
- ##### 2. Check that the communication target is configured at "NETWORK" on the MAPPS?
- Is "NETWORK" selected for "I/O DEVICE" on the COMMUNICATION PARAMETERS screen ([SETTING] - [F3] "NETWORK" - [64])?
 - Have you registered the configuration? (Press [F9] "SET" and press [F6] "EXECUTE".)
 - Is "NETWORK" displayed for "I/O DEV." in the lower left-hand corner on the PROGRAM LIST screen or on the Network I/O Setting screen ([SYSTEM] - [COMM. SETTING] - [4])?

<PC setting>

1. Is the MORI-SERVER (DSN) running correctly on the PC?
 - Is a small MORI-SERVER (DSN) window displayed in lower left-hand corner of screen?
 - Is the message "socket initialize OK" displayed in the MORI-SERVER (DSN) window when the MORI-SERVER (DSN) has been started?
2. Check that the software on PC is configured correctly.
 - Is the port number assigned to the MAPPS configured correctly?
 - Is "TIMEOUT" configured to an appropriate time (more than 20 seconds)?



Confirm that the value for the timeout at MAPPS is configured at more than 20 seconds.

- Have you saved the configuration?
- Have you rebooted software on the PC after you changed the port number?
- Are telecommunications blocked by security software or Windows firewall?



For the procedure of changing the configuration of security software or firewall setting, refer to 1 "TROUBLESHOOTING ON NETWORK CONNECTION".

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Comment Form

Date: _____

To improve this manual, we invite you to make comments on any insufficient description or errors in this manual. We want to know how you think we can make this manual better. Please restrict your comments to those concerning this manual only. Comments can also be submitted using the company website at <http://www.moriseiki.com>.

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