TOSHIBA

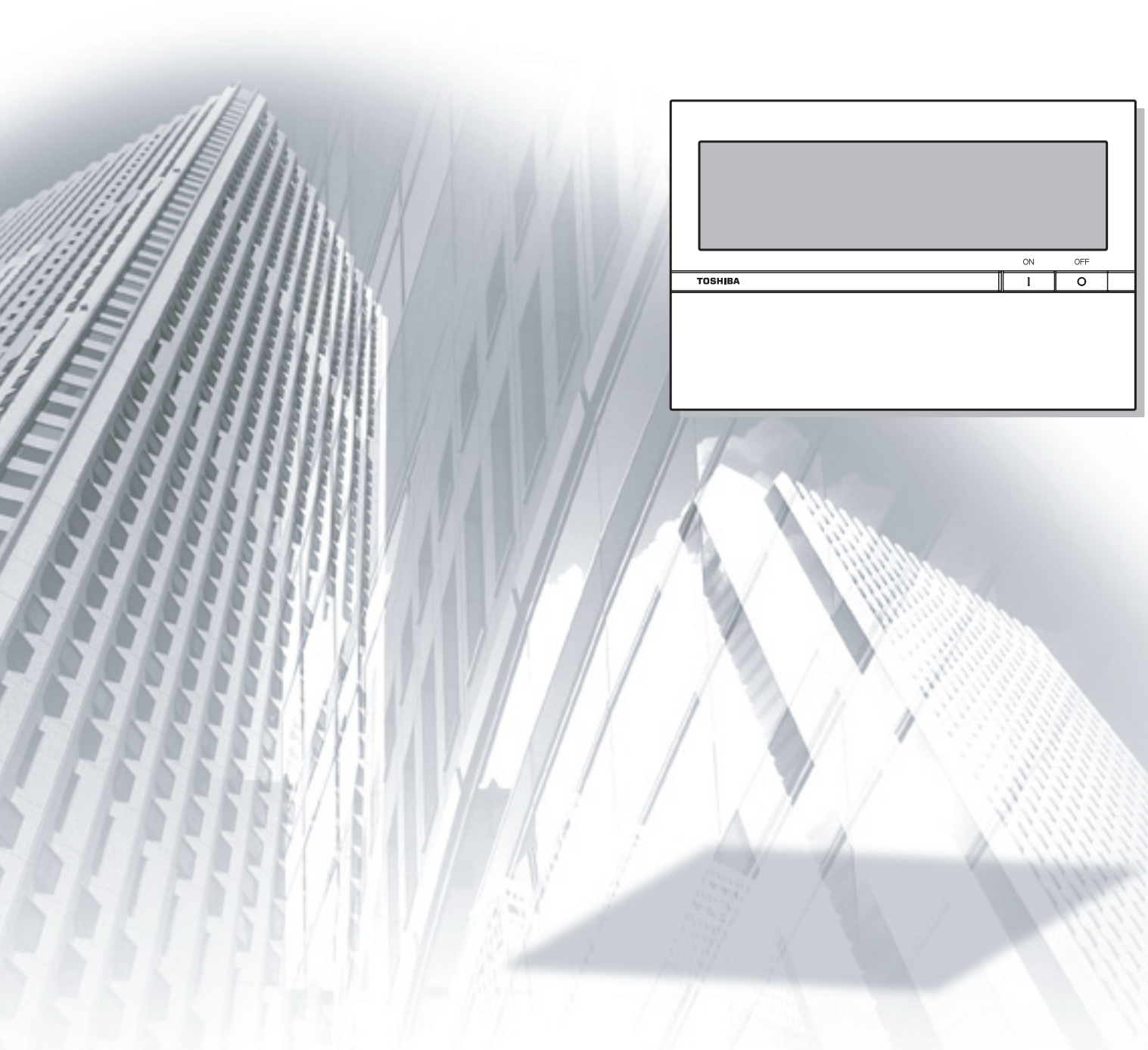
COMPLIANT MANAGER

Owner's Manual

Setting File Creation Software

Model name:

BMS-CM1280FTLE



Introduction

This is the User's Manual for the Setting File Creation Software (here after referred to as the "software") for the Compliant Manager.

- Setting File Creation Software for Compliant Manager Ver 1.00 Rev00

TOSHIBA CARRIER SOFTWARE LICENSE AGREEMENT

IMPORTANT: PLEASE READ THE TERMS AND CONDITIONS OF THIS AGREEMENT CAREFULLY BEFORE USING "MONTHLY REPORT CREATION SOFTWARE" (HEREINAFTER CALLED THE "SOFTWARE"). BY USING OR INSTALLING THE WHOLE OR A PART OF THIS SOFTWARE, YOU (HEREINAFTER CALLED THE "USER") ARE DEEMED TO HAVE ACCEPTED ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF USER DO NOT AGREE TO THESE TERMS AND CONDITIONS, DO NOT USE OR INSTALL THE SOFTWARE AND RETURN TO THE LOCATION FROM WHICH IT WAS OBTAINED.

1. For the purpose of this Agreement, "Software" means the computer programs and information and data (including, without limitation, electric documents) contained in the media or files distributed with this Agreement, except those specifically designated as not a part of the Software in writing.
2. The Software is the proprietary property of Toshiba Carrier Corporation. Toshiba Carrier Corporation owns all intellectual properties in the software. User may use the Software only in accordance with the terms and conditions of this Agreement, and only for such purpose as designated by Toshiba Carrier Corporation or as agreed to by Toshiba Carrier Corporation.
3. Toshiba Carrier Corporation owns the copyright of the software and data in the software. The software is protected under applicable law and international conventions of copyright.
4. User may copy and install this Software for such purpose as described in the documents for the Software. Any copy of the Software created by User shall be immediately destroyed when there is no more need for such copy. With an exception of the foregoing case, User shall not make any copy of the Software.
5. User shall not reverse engineer, decompile, disassemble, or modify the Software.
6. User shall not provide the Software for the use by plural people through internal networks or the Internet.
7. User shall not distribute, transfer, rent, lease, or sell the Software or the right to use the Software to anyone, nor shall it grant a sublicense for the use of the Software to anyone.
8. User shall respect the intellectual property right of the Software. User understands the confidential nature of the Software and agrees to safeguard the Software from disclosure to any third party.
9. User shall comply with the Foreign Exchange and Foreign Trade Laws of Japan and other related export regulations. User shall also comply with the U.S Export Control Law and its Administration Regulations and those of all relevant countries.
10. THIS SOFTWARE ARE PROVIDED "AS IS" WITHOUT ANY WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCAHNTABILITY AND TH FITNESS FOR A PARTICULAR PURPOSE. TOSHIBA CARRIER CORPORATION HEREBY DISCLAIMS ANY WARRANTIES RELATING TO QUALITY AND PERFORMANCE OF THE SOFTWARE. TOSHIBA CARRIER CORPORATION SHALL NOT BE HELD LIABLE FOR ANY DAMAGES, LOSSES, EXPENSES OR COSTS, IF ANY, INCURRED BY THE USER IN CONNECTION WITH OR AS A RESULT OF THE USE OF THE SOFTWARE.
11. In the case of breach of any terms and conditions of this Agreement, or this Agreement is terminated, User shall immediately uninstall and dispose the Software and/or return the media and the files of Software to Toshiba Carrier Corporation, along with any remaining copies thereof.
12. Toshiba Carrier Corporation reserves the right to request User to stop using the Software at any time upon notice to User. Toshiba Carrier Corporation also reserves the right to make modification or improvement to the Software at any time.
13. This Agreement shall be governed and construed by the laws of Japan (excluding its rule of choice of laws).

Table of Contents

7. Notes 44

1. What is Setting File Creation Software For the Compliant Manager?

This software is a tool to create setting files for the Air-conditioning Control System.

Character code used for setting files	Font used for input on Microsoft Excel sheets
Unicode	MS UI Gothic

Verified foreign languages

- Japanese
- English

The software is composed of Excel VBA output setting files, according to the specific format of the data in the Excel workbook.

Table 1-1 Output setting files

File name	Description
AC_GROUP.DEF	Indoor unit group config file
AC_KIKI_NAME.DEF	Air conditioner name definition file
AC_MAP.DEF	R.C. group/indoor setting file
AC_NAME.DEF	R.C. group/indoor name definition file
ANBUN.DEF	Proportional power sharing system definition file
ANBUN_IN_NUM.DEF	Indoor unit quantity setting file
ANBUN_IN_RATED.DEF	Indoor unit rating value setting file
ANBUN_MAP.DEF	Energy monitoring tenant name conversion setting file
ANBUN_NAME.DEF	Energy monitoring tenant name setting file
FLOOR_NAME.DEF	Floor name definition file
CONTACT.DEF	CONTACT information definition file
DEMAND_CH.DEF	Demand alarm input definition file
DEMAND_MODE.DEF	Demand control mode setting file
EMGOUT_CH.DEF	Emergency external output definition file
AREA_NAME.DEF	Area name definition file
ERROR_CODE.DEF	Error code definition file
FIRE_CH.DEF	Fire alarm input definition file
IO_IP.DEF	I/O Controller IP address definition file
KEY_CH.DEF	Door-lock input definition file
OUT_GROUP.DEF	Outdoor unit group config file
REPORT.DEF	Report setting file
RUN_MODE.DEF	Operation mode setting file
TEMP.DEF	Temperature display setting file
TENANT_NAME.DEF	Tenant name definition file
WHM_CH.DEF	Power meter input definition file
WHM_MAP.DEF	Energy monitoring setting file
WHM_OUT_MAP.DEF	Proportional power sharing setting file for outdoor unit

2. Operating Environment

Operating environment	Personal computer	Windows 2000 or XP compatible PC
	Operating system (OS)	Windows 2000, XP
	Microsoft Excel	Excel 2000, Excel 2002, Excel 2003

3. Installation/Uninstallation Procedures

3-1 Program file structure

This software is constituted by multiple files as shown in the Table 3-1 below.

Table 3-1 File structure

File name	Description
DefMake.xls	Included in this software. Start this file to run the software.
ERROR_CODE_Language.DEF	A master file for each language of ERROR_CODE.DEF that is one of the setting files. Language is the name of each language. Multiple master files are provided for each language.
setting.ini	An INI file stores the language to be used and previously stored data such as file path
Language.msf	A file describing a message number/word correspondence table to make this software multilingual. "Japanese" (Japanese environment) or "English" (English environment) is applied for *Language*.
unit_table.xls (Equipment model name file)	Excel Workbook file describing equipment parameters Used to determine parameters (power, model, etc.)
Upload For CM.exe *Language UPLOAD CM,msf*	A file uploader file (see 7-4)

The following shows the directory structure of these files.

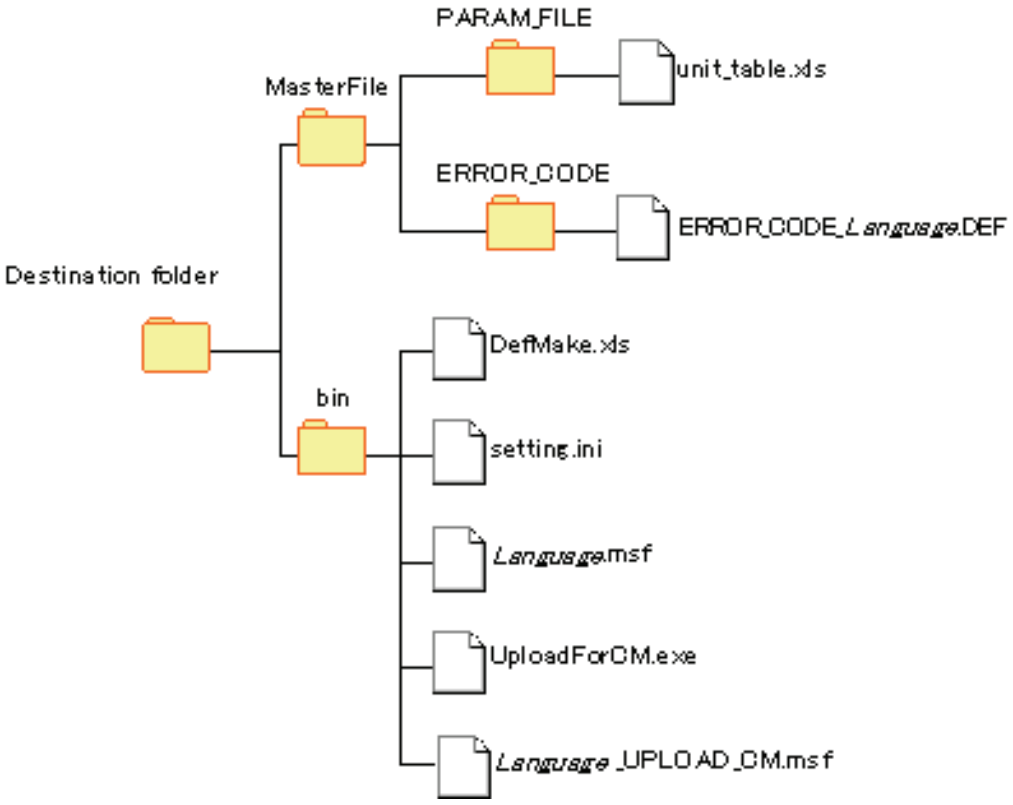


Fig. 3-1 Directory structure of the software

Do not change the directory, file name or file saving place of the installation destination.
In this software, create a new Excel Workbook file to input data (equipment data, tenant data, etc.) this is necessary for the creation of setting files.

3-2 Installation

Insert the installation CD into the drive. The setup operation starts automatically. If it does not start, execute "SETUP.EXE" on the CD.
The "Choose Setup Language" dialog (Fig. 3-2) appears first. Choose the language to be used for the software and Click [OK]. The "Welcome" window (Fig. 3-3) opens next, click [Next >]. The "License Agreement" dialog (Fig. 3-4) appears. Read the license agreement and select "I accept the terms in the license agreement" and then click [Next >]. The window changes to the "Destination Folder" window (Fig. 3-5). Choose a folder in the installation destination (default folder usually) and click [Next >].
Click [Install] on the dialog (Fig. 3-6) that opens next. Installation of the selected file starts. The dialog (Fig. 3-7) appears during the installation and then changes to the "InstallShield Wizard Completed" window (Fig. 3-8). Click [Finish] on the window to complete the installation operation.

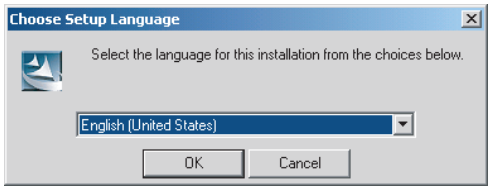


Fig. 3-2 "Choose Setup Language" dialog

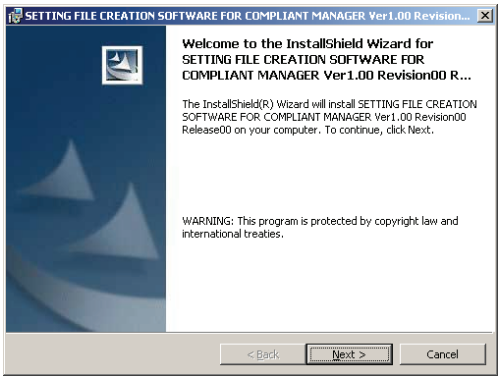


Fig. 3-3 "Welcome" window

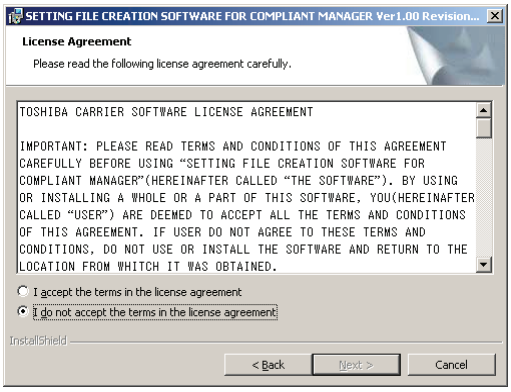


Fig. 3-4 "License Agreement" dialog

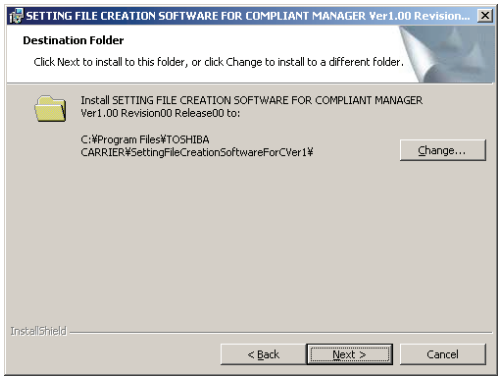


Fig. 3-5 "Destination Folder" window

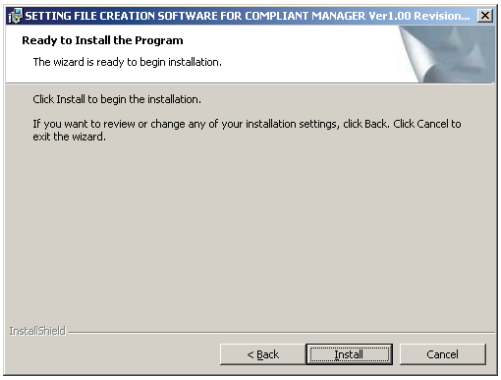


Fig. 3-6 "Ready to Install the Program" dialog

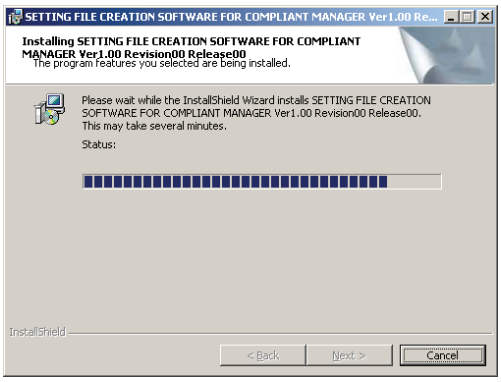


Fig. 3-7 "Installing ..." dialog

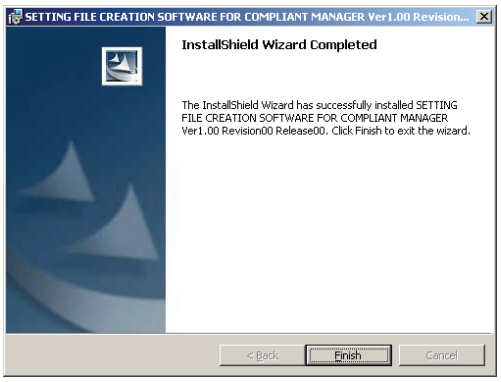


Fig. 3-8 "InstallShield Wizard Completed" window

3-3 Uninstallation

When the software is running, close the software down completely.
Double-click the [Add/Remove Programs] icon in the Control Panel to open the "Add/Remove Programs" dialog (Fig. 3-9). Choose "SETTING FILE CREATION SOFTWARE FOR COMPLIANT MANAGER" and click [Remove]. The Confirmation dialog (Fig. 3-10) appears. Click [Yes] to start un-installing of the program. Upon completion, the dialog disappears automatically.

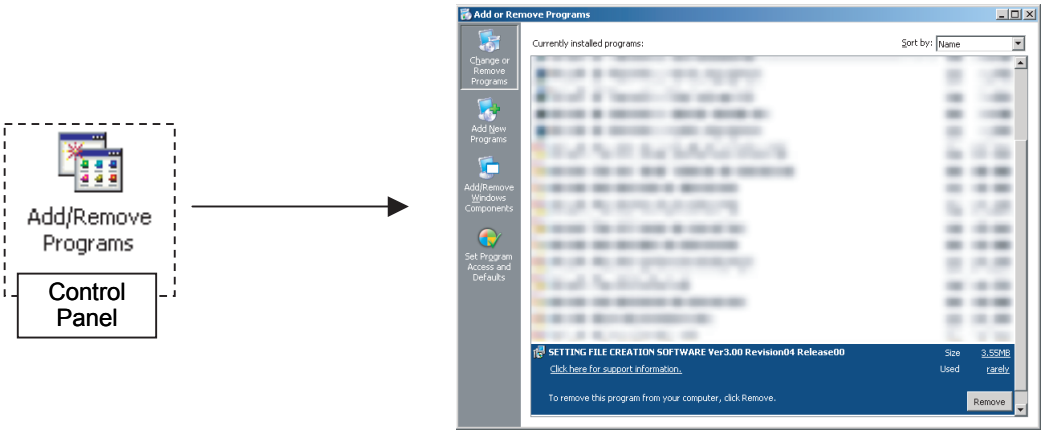


Fig. 3-9 "Add/Remove Programs" dialog

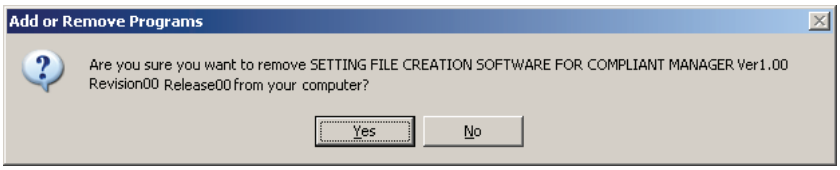


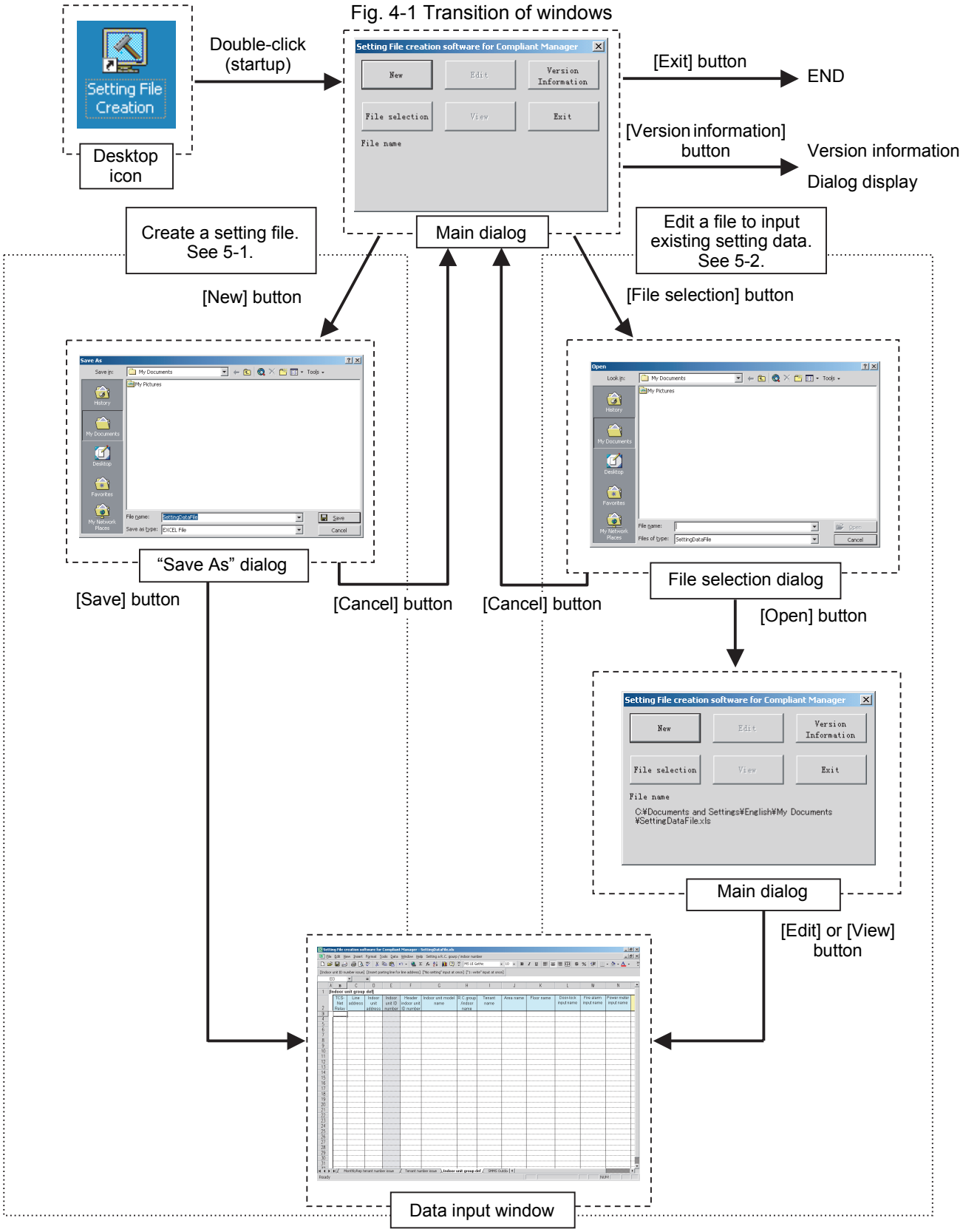
Fig. 3-10 Confirmation dialog

4. Operation

4-1 Transition of windows

The following shows the window transitions of the software. Details of this diagram are described in the following.

Fig. 4-1 Transition of windows



4-2 Startup and exiting

4-2-1 Starting the software program

Double-click the [Setting File Creation] icon on the desktop to start the software program. The main dialog (Fig. 4-2) appears. If the dialog of Fig. 4-3 appears, click [Enable Macros].

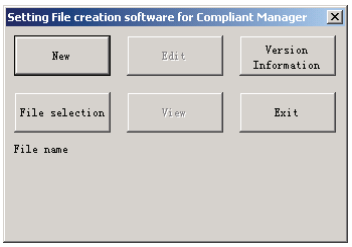


Fig. 4-2 Main dialog

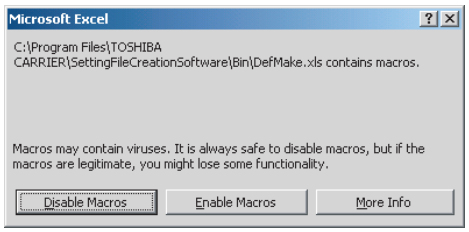


Fig. 4-3 Macro enable/disable selection dialog

If the dialog does not appear, click [Tools] - [Macro] - [Security...] from the Excel menu bar to open the "Security" dialog. Choose "Medium" security level (Fig. 4-4). Then exit Excel and double-click the [Setting File Creation] icon on the desktop to restart the software.

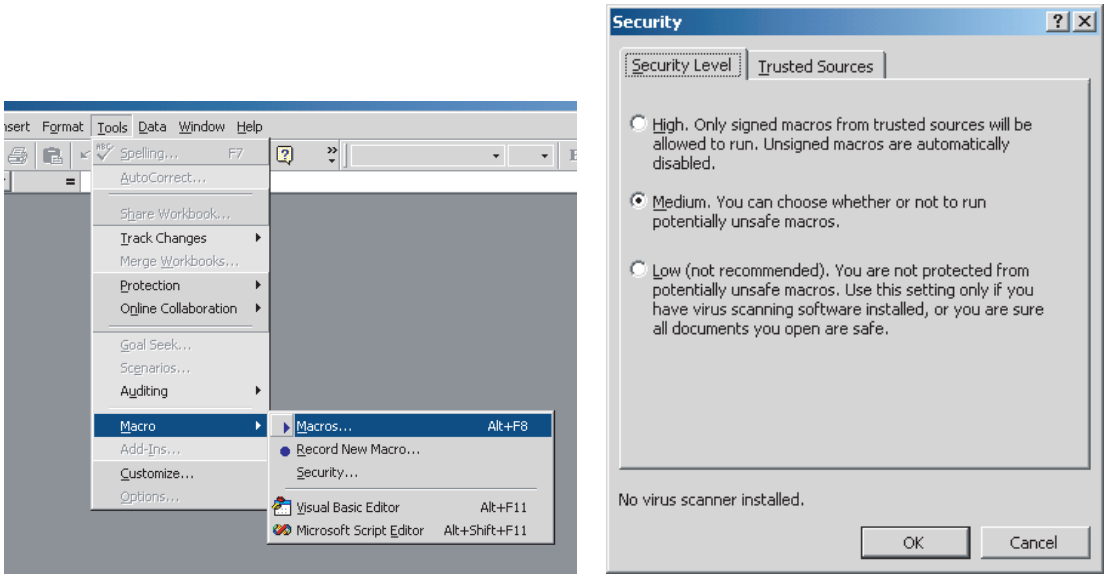


Fig. 4-4 "Security" dialog

4-2-2 Exiting the software program

To exit the software program with the main dialog open, click [Exit] on the main dialog or click [X] at the upper right of the dialog.
When the data input window is open, click [X] at the upper right of the window or click [Files] - [Exit] on the menu bar in the same way as exiting Excel.

4-2-3 Display of version information

The versions of setting file creation software, the version of an air conditioner model Table (See 7-1) can be confirmed when you click [Version information] in the main dialog.

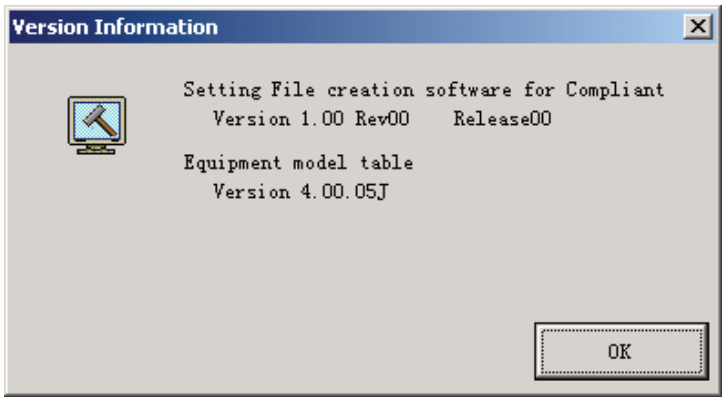


Fig. 4-5 Version Information dialog

4-3 Data input window

Fig. 4-6 shows the setup data input window. Enter setup data in the blank area of the table on each sheet in the same way as Excel data input. You do not need to input data into the grey coloured cells on the table, data will be automatically generated within these cells.

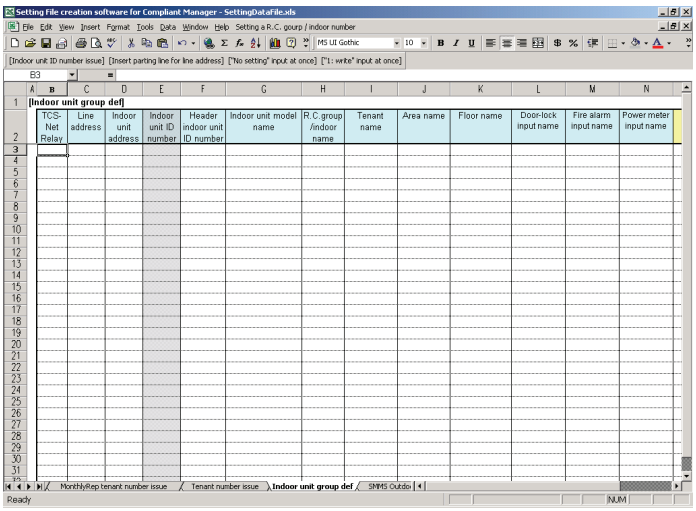


Fig. 4-6 Setting data input window

Customized buttons are displayed on the Excel toolbar (Fig. 4-7). The customized toolbar is displayed on each of the work sheets with their respective buttons. These buttons are assigned to the following: number issue for setting files, data update, setting file creation, etc. Details of the buttons are described in chapter 6. When the length of the button is insufficient, some buttons are hidden. In this case, click the arrow at the right end of the toolbar to display the hidden buttons (Fig. 4-8).

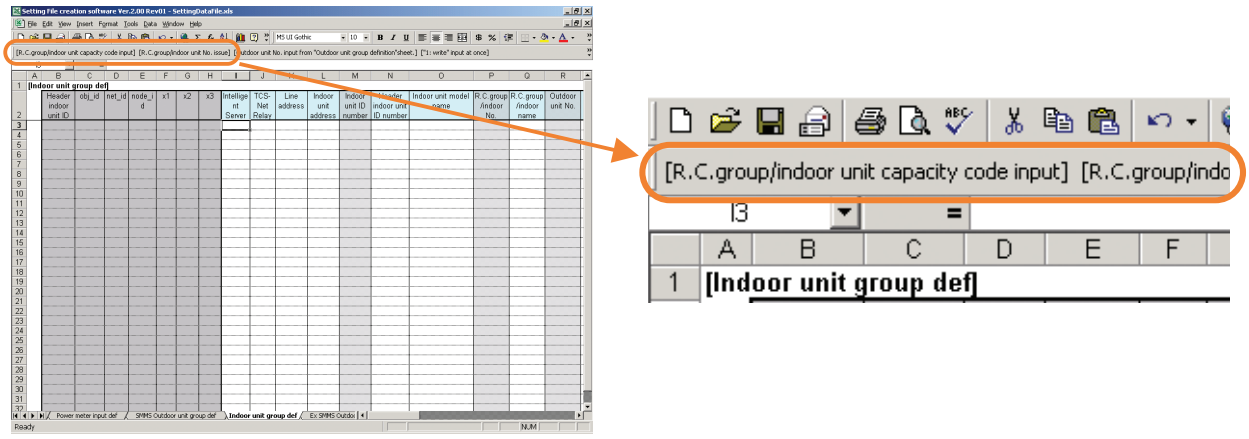


Fig. 4-7 Buttons on the toolbar

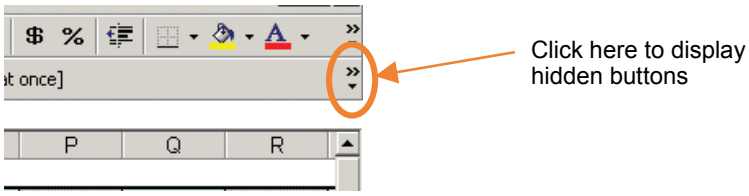


Fig. 4-8 Display hidden buttons

5. Setting File Creation Procedure

The Excel Workbook file for setup data input includes 11 sheets in total. Complete them in the following order.

1 : "System Setting" sheet
2 : "System equipment configuration" sheet
3 : "Address Setting" sheet
4 : "Allocate external interface" sheet
5 : "Floor number issue" sheet
6 : "Area number issue" sheet
7 : "Monthly report tenant number issue" sheet
8 : "Tenant number issue" sheet
9 : "Indoor unit group definition" sheet
10 : "SMMS Outdoor unit group definition" sheet
11 : "Ex SMMS Outdoor unit group definition" sheet

Input data in the white cells of the table on each sheet.

5-1 New file creation

5-1-1 Starting the program

Double click the [Setting File Creation] icon on the desktop, to start the program. The main dialog opens. Click [New] (Fig.5-1). The "Save As" dialog opens (Fig.5-2). Specify the destination and the name of the Excel Workbook file for centering setup data. Click [Save]. The specified Excel Workbook file opens and is ready for data entry.

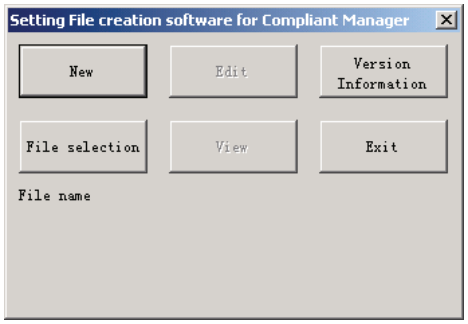


Fig. 5-1 Main dialog

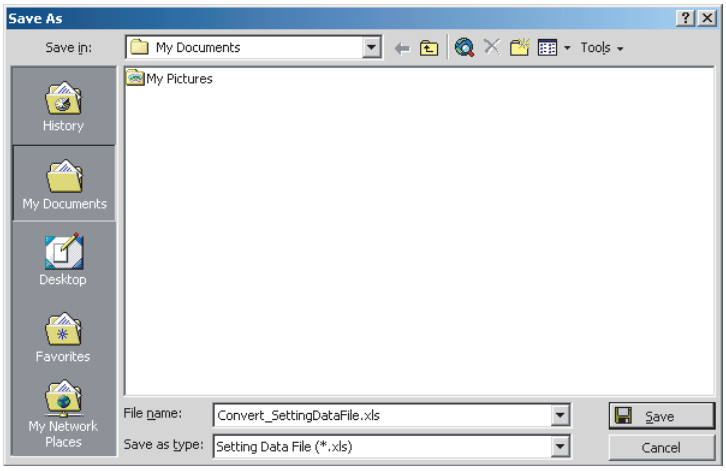


Fig. 5-2 "Save as" dialog

5-1-2 Creating a new file

Input data in the following procedure.

1) Input data in the "System Setting" sheet.
   Input data in all columns.
   For details of each item, refer to 6-1 in this manual.
   * Notes on the "System Setting" sheet
   • Setting numbers for the scheduled operation central setting items.
   Scheduled operation ON/OFF patterns vary depending on the setting.

Setting	OFF (10 minutes after)	OFF (within 10 minutes)	ON
No central setting	OFF	OFF	ON
Setting No. 1	OFF + [ON/OFF] switching prohibition reset	OFF + [ON/OFF] switching prohibition reset	ON + [ON/OFF] switching prohibition reset
Setting No. 2	OFF + [ON/OFF] switching prohibition reset	OFF + [ON/OFF] switching prohibited	[ON/OFF] switching prohibition reset
Setting No. 3	OFF + [ON/OFF] switching prohibition reset	OFF + [ON/OFF] switching prohibited	ON + [ON/OFF] switching prohibition reset

- Setting numbers for door-lock interlocking central setting items.
  Interlocking operation patterns vary depending on the setting.

Setting	Locking (OFF to ON)	Unlocking (ON to OFF)
No central setting	OFF	No action
Setting No. 1	OFF	[ON/OFF] switching prohibition reset
Setting No. 2	OFF + [ON/OFF] switching prohibited	[ON/OFF] switching prohibition reset
Setting No. 3	OFF	No action

2) Input data in the "System equipment configuration" sheet.
Specify the number of interfaces.
Depending on the number input in "Intelligent Server Qty" on the "System Setting" sheet, areas allowing data input will vary. Input the number of interfaces in the white cells on the table.
For details of each item, refer to 6-2 in this manual.

3) Input data in the "Address Setting" sheet.
Input data in the white cells ("Device type" and "TCS-Net Relay Interface No.").

4) Input data in the "Allocate external interface" sheet.
Assign "fire alarm input", "locking input", "abnormal external output", and "power meter input" functions to the channels of each interface. Choose the desired function from a list for the "Function" column of a channel to which you want to assign a function. Also specify functions for "Signal logic" and "Pulse constants".

5) Input data in the "Floor number issue" sheet.
Firstly input all the floor names to be registered from the uppermost line of the "Floor name". Then press [Floor number issue] and ["List display" input at once] to input data automatically into the "Floor No." and "List display validity" columns.
* [List display validity] is used to select whether to display the floor name on the line in the list displayed, when "Floor name" in the "Indoor unit group definition" sheet is selected.

6) Input data in the "Area number issue" sheet.
Firstly input all the area names to be registered from the uppermost line of "Area name". Then press [Area number issue] and ["List display" input at once] to input data automatically into the "Area No." and "List display validity" columns.
* [List display validity] is used to select whether to display the area name on the line in the list displayed, when "Area name" in the "Indoor unit group definition" sheet is selected.

7) Input data in the "Monthly report tenant number issue" sheet.
Firstly input all the monthly report tenant names to be registered in "Monthly report tenant name". Then press [Monthly report tenant number issue] and ["List display" input at once] to input data automatically in the "Monthly report tenant No." and "List display validity" columns.
Press ["Tenant" input at once] as required to input "2: tenant" for "Summing up category" at a time.
Register one or more monthly report tenants.

8) Input data in the "Tenant number issue" sheet.
Firstly input all the tenant names to be registered in "Tenant name". Then press [Tenant number issue] and ["List display" input at once] to input the data automatically in the "Tenant No." and "List display validity" columns.
Then choose a monthly report tenant name corresponding to the tenant name on the line from the list, to be displayed, for a "Monthly report tenant name" column (see 7-3).

9) Input data in the "Indoor unit group definition" sheet.
In this sheet, performs that registration for an SMMS indoor unit, Digital Inverter/Super Digital Inverter equipment, and assignation of these indoor units with Floor, tenant and area, and others.
Press [Indoor unit ID number issue] first to input data automatically into the "Indoor unit ID number" column.
Then input data into the white cells for the table from the uppermost line for all indoor units. For "Header indoor unit ID number," input "0" when the indoor unit on the line is a header or an individual unit or input the header indoor unit ID number when the indoor unit is a follower unit.
In an "Indoor unit model name" column, a model name list is displayed when you choose the cell to be input. Choose desired model name from the list (see 7-3).
If a model you want to input is not included in the model list displayed when entering data in the "Indoor unit model name" column, the model name must be registered in the equipment model table (see 7-1). However, this is not necessary when energy monitoring is not used. In such case, a similar model name can be entered. (Be careful with MMS and Digital Inverter/Super Digital Inverter equipment.)
Then press the ["1: write" input at once] button to input data automatically in the "File write" column.
* For Digital Inverter/Super Digital Inverter equipment, input a set model name for "Indoor unit model name". (Data of outdoor unit or follower indoor units is not required.)
* "Write into setting file" is used to specify whether to output the indoor unit data on the line to the setting file. When select "0: Not write", the indoor unit data on the line is not output to the setting file. Select "1: Write" usually.

10) Input data in the "SMMS Outdoor unit group definition" sheet.
In this sheet performs that registration for an SMMS outdoor unit or assignation of the power meter input to each SMMS outdoor unit.
Input data from the uppermost line of the table proportionally to the number of outdoor units.
In an "Outdoor unit model name" column, a model name list is displayed when you choose the cell to be input. Choose the desired model name from the list (see 7-3).
If a model name you want to input is not included in the model list displayed when entering data in the "Outdoor unit model name" column, the model name must be registered in the equipment model table (see 7-1). However, this is not necessary when energy monitoring is not used. In such case, a similar model name can be entered.
No data input in this sheet is required for the outdoor units of Digital Inverter/Super Digital Inverter equipment.
* When using an outdoor unit of outdoor set model, input the line of the header outdoor unit of the model (input an outdoor set model for "Outdoor model name" and "1" for "Outdoor unit No."), and then press [Outdoor follower unit insert]. Lines of outdoor follower units of the outdoor set model are inserted automatically.

Press [Input at once "Write into setting file"] buttons to input data automatically in the "Write into setting file" columns.
Choose a power meter input name corresponding to the outdoor unit on the line for a "Power meter input name" column (see 7-3). Also, input a power meter input name corresponding to the outdoor follower unit for the line of an outdoor follower unit (set the input name for each outdoor unit). Input "No setting" when not making a power meter input name correspond to the outdoor follower unit.
* When the system is configured without SMMS unit, interface only, this sheet requires no data input.
* "Write into setting file" is used to specify whether to output the outdoor unit data on the line to the setting file. When select "0: Not write", the outdoor unit data on the line is not output to the setting file. Select "1: Write" usually.

11) Input data in the “Ex SMMS Outdoor unit group definition” sheet.
(Input when air conditioner controlling depending on a Digital Inverter/Super Digital Inverter equipment is used with the power shared proportionally.)
In this sheet, data must be input when sharing power proportionally and using air conditioner controlling depending on a Digital Inverter/Super Digital Inverter equipment. This sheet is not used irrespective of the presence of data input when power is not shared proportionally. Even in case that power is proportionally shared, this sheet is not used when neither air conditioner controlling depending on a Digital Inverter/Super Digital Inverter equipment is used.
Press the [New] button first. Outdoor units corresponding to all air conditioner controlling depending on a Digital Inverter/Super Digital Inverter equipment registered in an “Indoor unit group definition” sheet are input in the table for each line. Input power meter input names corresponding to each outdoor unit in the “Power meter input name” column. Choose “No setting” when not making power meter input names correspond to the outdoor units.
Put the cell on the line of the outdoor unit in the system into the selection state and press the [Line insert] button when making power meter input names correspond to multiple outdoor units in the system of one air conditioner controlling depending on a Digital Inverter/Super Digital Inverter equipment. In this case, the line of the second outdoor unit in the system of the outdoor unit is added in the table by one line. By repeating this operation, three or more outdoor units can be registered in the system.

12) Create a setting file.
Open the ”System Setting“ sheet and press [Setting File create]. (For details of the [Setting File create] button, see 7-2.) Upon completion of the data checking, the following dialog appears.

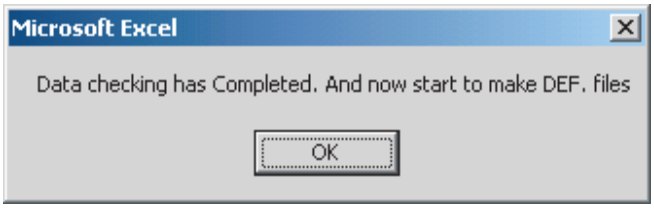


Fig. 5-3 ”Data checking completed“ dialog

Click [OK] on the dialog. The selected setting file is created in the specified folder.

13) Save Excel Workbook files for data input in the same way as normal Excel Workbook files.
Excel Workbook files for data input can be saved at any time.

14) Exit the program.
Click the [X] button at the upper right of the window to close the window.
The software program can be exited at any time.

5-2 Setting file update

5-2-1 Starting the program

Double-click the [DEF Make Tool] icon on the desktop to start the program. The main dialog opens. Press [File selection]. The "File open" dialog opens. Select the Excel Workbook file for data input which was saved previously and press [Open] to reopen the main dialog. Confirm that the selected file name is displayed under "File name" and then click [Edit]. The selected Excel Workbook file is displayed and the program enters the data entry standby state.

5-2-2 Updating data

The following describes notes on updating data.

1) "System Setting" sheet.
   - When total quantity of the indoor unit is updated.
     Check the data in the "Indoor unit group definition" sheet. The lines of the setting number in the [Indoor total number] column from top of space on the [indoor unit total number] sheet are written only to the setting file. (When choose the "Write into setting file" column in the "Indoor unit group definition" sheet to "0: Not write" line, this line is counted to the [Indoor unit total n umber].

2) "System equipment configuration" sheet.
   - When interface quantity is updated.

   Check the data in the "Address Setting" sheet.

3) "Address Setting" sheet.
   There are not any columns that must be updated when each column was changed.

4) "Allocate external interface" sheet.
   There are not any columns that must be updated when each column was changed.

5) "Floor number issue" sheet.
   - To add a floor.
     Input a floor name you want to add to the blank line* of "Floor name".
     Then press [Floor number issue] to input data automatically in the "Floor No." column. Choose "1: display" for "List display validity". * A line can be inserted by clicking [Insert] - [Line] on the menu bar.

- To delete a floor.
  Choose a cell in the line you want to delete and click [Edit] - [Delete] on the menu bar. Select "All lines" on the dialog displayed and click [OK].

- When "Floor name" is updated.
  "Floor name" in the "Indoor unit group definition" sheet can be easily updated by pressing [Equipment setting sheet floor name update]. Further, [Floor No.] in the same sheet can be updated with the [Equipment setting sheet floor number update] button.

- To re-issue "Floor No."
  Delete all data in "Floor No." and then press [Floor number issue] to issue a floor number.

6) "Area number issue" sheet.
   Same as "Floor number issue" sheet.

7) "Monthly report tenant number issue" sheet.
   Same as "Floor number issue" sheet.

8) "Tenant number issue" sheet.
   Addition, deletion, and reissue methods are the same as for a "Floor number issue" sheet. However, the Compliant Manager operating data according to the air conditioner number and tenant number. Therefore, pay attention to the following when creating the setting file of the system that shares power proportionally.

   (Note 1)
   Do not apply the setting file, to which the change below was added, till the next month of a month in which a tenant left a building.
   - The tenant number of a tenant who left a building is changed.
   - The tenant number of a tenant who left a building is deleted.
   - The tenant number of a tenant who left a building is assigned to another tenant.

   (Note 2)
   Do not change the tenant number while a tenant exists in a building.

   Basically, add a tenant without deleting the registration of a tenant. The tenant number is 1 to 32. When the tenant number reaches the upper limit, change the tenant name of the tenant assigned to the oldest tenant, who left a building, to the tenant name of a tenant to be newly added and then register it.
   The tenant assignment of the indoor unit installed in a room that a tenant left can be changed to another tenant. (For example, a tenant is changed from "tenant A" to "vacant room" in the "Tenant name" column of an indoor unit registered in an "Indoor unit group definition" sheet when tenants with tenant names "vacant room" and "tenant A" are registered in a Tenant number issue" sheet.)

9) "Indoor unit group definition" sheet.
   - To add a indoor unit.
     Update "Indoor unit total Qty" in the "System Setting" sheet first. Then move to an "Indoor unit group definition" sheet. Add a blank line* that you want to add as required and press the [Indoor unit ID number issue] button. Input data in the white area of the blank line.
     * A line can be inserted by clicking [Insert] - [Line] on the menu bar.

   - To delete a indoor unit.
     Update "Indoor unit total Qty" in the "System Setting" sheet. Then select a cell in the line with an indoor unit you want to delete in the "Indoor unit group definition" sheet and click [Edit] - [Delete] on the menu bar. Select [All lines] on the dialog displayed and click [OK] to delete the indoor unit.

- When the air conditioner connecting to a Digital Inverter/Super Digital Inverter equipment is added or removed with the power shared proportionally.
  It is necessary to rewrite an "Ex SMMS Outdoor unit group definition" sheet. Press the [New] button in an "Ex SMMS Outdoor unit group definition" sheet and update a table. The line of the corresponding outdoor unit is created when the air conditioner connecting to a Digital Inverter/Super Digital Inverter equipment is added. Set a power meter input the line.

- When an air conditioner number is input manually
  Click "Air conditioner number setting" -> "Air conditioner number" -> "Number display" (see Fig. 5-2) on the menu bar to display an "Air conditioner number" column on the right end of an "Indoor unit group definition" sheet. Input number directly in this "Air conditioner number" column. Input numbers in only the line of a header unit. Take care that the numbers assigned to each header unit do not overlap. During creation of a setting file, a proper air conditioner number is automatically assigned to the indoor mast unit whose air conditioner number was not specified manually. When clearing the previously issued air conditioner number and the issue history, click "Air conditioner number setting" -> "Air conditioner number" -> "Issue history clear" before inputting data manually. To return an "Air conditioner number" column to the hidden display state, click "Air conditioner number setting" -> "Air conditioner number" -> "Number display" again.

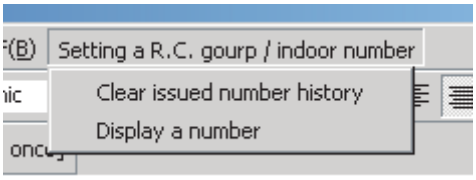


Fig. 5-4 Manual input of air conditioner number

- When header and follower indoor units are changed
  Input only a header indoor unit ID number in the "Header indoor unit ID number" column of an indoor unit when changing a header unit to a follower unit.
  Input "0" in the "Header indoor unit ID number" column of an indoor unit first when changing a follower unit to a header unit. Then delete the air conditioner number when an air conditioner number is assigned to the indoor unit. Click "Air conditioner number setting" -> "Air conditioner number" -> "Number display" (see Fig. 5-2) on the menu bar. An "Air conditioner number" column is displayed on the right end of an "Indoor unit group definition" sheet. Specify the "Air conditioner number" column on the line of a header indoor unit as a blank. To return the "Air conditioner number" column to the hidden display state again, click "Air conditioner number setting" -> "Air conditioner number" -> "Number display" again.
  Confirm that the indoor system name, tenant name, area name, floor name, locking input name, fire alarm input name, and power meter input name of the air conditioner are correctly input when changing a follower unit to a header unit (see 6-9-3.)

10) "SMMS Outdoor unit group definition" sheet.
  - To add a outdoor unit.
    Input data in the white cell on the blank line*.
    * A line can be inserted by clicking [Insert] - [Line] on the menu bar.

  - To delete a outdoor unit.
    Choose a cell on the line where the outdoor unit is that you want to delete and click [Edit] - [Delete] on the menu bar. Select "All lines" on the dialog displayed and click [OK].

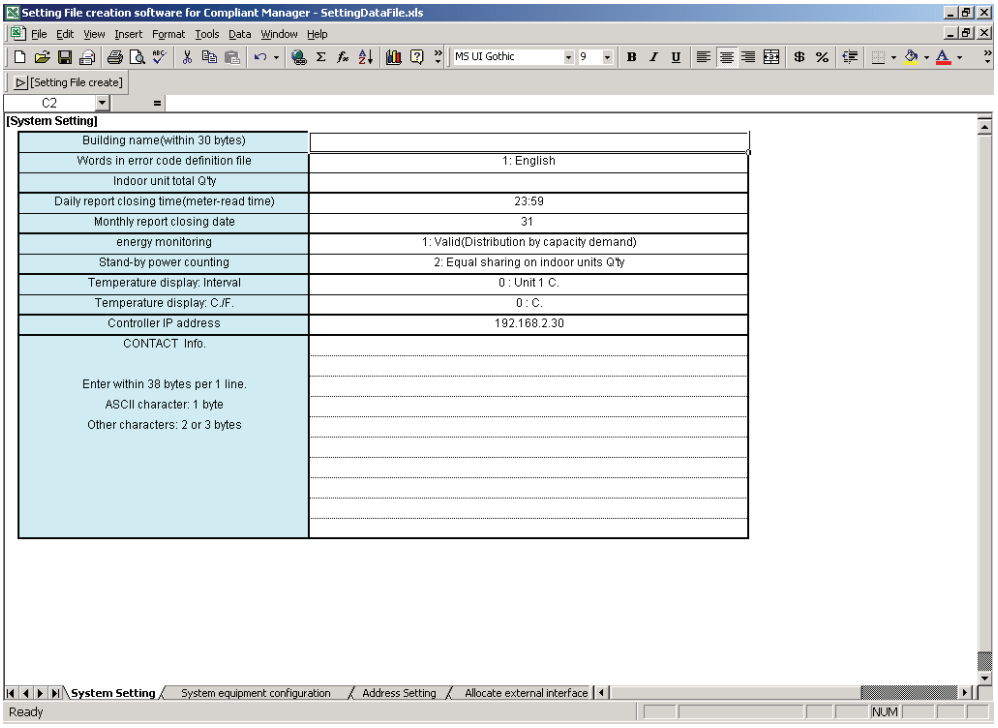
11) "Ex SMMS Outdoor unit group definition"
    There are not any columns that must be updated when each column was changed.

6. Window Descriptions and Buttons on Each Sheet

6-1 "System Setting" sheet

This sheet is used to input general system information such as building name and window display.

6-1-1 Window Image



6-1-2 Window Description

(1) Building name
Input a building name.
The name set here is also displayed in the "Building name" column on the Touch Screen Controller screen.

(2) Words in error code definition file
Select the output language from the ERROR_CODE.DEF file.
The following language can be selected.
Japanese, English, Chinese (Simplified characters), German, Spanish, French, Italian

(3) Indoor unit total Qty
Specify the number of indoor units to be controlled.
For Digital Inverter/Super digital Inverter equipment, twin, triple and group control system is counted as one unit. Also, the air conditioner connecting to a general purpose interface or digital I/O relay interface is counted as one unit.

(4) Daily report closing time (meter-read time)
Specify daily report closing time in the "hh:mm" format.
Default: 23:59

(5) Monthly report closing date
Specify monthly report closing date.

(6) Energy monitoring
Choose "0: Void", "1: Valid (Shared according to the capability request)", or "2: Valid (Shared according to the operating time)" for whether to share power proportionally.
0 : Void Choose when not sharing power proportionally.
1 : Valid (Distribution by capacity demand)
Choose when distributing power according to the capacity demand of an indoor unit.
2 : Valid (Distribution by operation hours)
Choose when distributing power according to the operation hours of an indoor unit.

(7) Stand-by power counting
Specify how to calculate the value of outdoor unit stand-by consumption kW to be used for energy monitoring. The following four patterns can be selected for setting. However, when "2: Valid (Distribution by operation hours)" is selected in the "Energy monitoring" column in this sheet, "1: Proportional sharing method per horsepower" and "2: Equal sharing method" cannot be selected.
0 : The whole electric energy including outdoor heater energy is proportionally shared according to the result of indoor operation.
A group outdoor heater capacity coefficient is 0 at all times. Therefore, the whole electric energy is proportionally shared according to the result of indoor unit operation. The electric energy of an outdoor unit heater is not deleted.
1 : Proportional sharing method per horsepower
An outdoor heater is shared proportionally to the horsepower of an indoor unit group.
2 : Equal sharing method
An outdoor heater is equally shared to each indoor unit group.
3 : Distribution of power consumption except compressor warmer to tenants
Exclude the power consumed by the outdoor unit crankcase heater from the power to be distributed proportionally for each tenant. The setting for displaying the excluded power consumption of the outdoor unit crankcase heater in the separate field at the lower part of the sheet is enabled by the monthly report creation software.

(8) Temperature: Interval
Choose Celsius or Fahrenheit for temperature display.
0 : 1°C Temperature display changes in units of 1°C.
1 : 0.5°C Temperature display changes in units of 0.5°C.

(9) Temperature: Celsius/Fahrenheit
0 : Celsius Temperature is displayed in Celsius.
1 : Fahrenheit Temperature is displayed in Fahrenheit.

(10) Touch Screen Controller IP address
Specify the IP address of the compliant manager.

(11) CONTACT information
Describe the contact information of the maintenance or service staff displayed by clicking the [CONTACT] link on the Touch Screen Controller screen displayed by the web browser within 10 lines.
A sentence of up to 38 bytes per line can be entered (ASCII character: 1 byte/character, other characters: 2 or 3 bytes/character). If a sentence of 39 bytes or more is entered, an error message appears. Blank lines can be inserted.

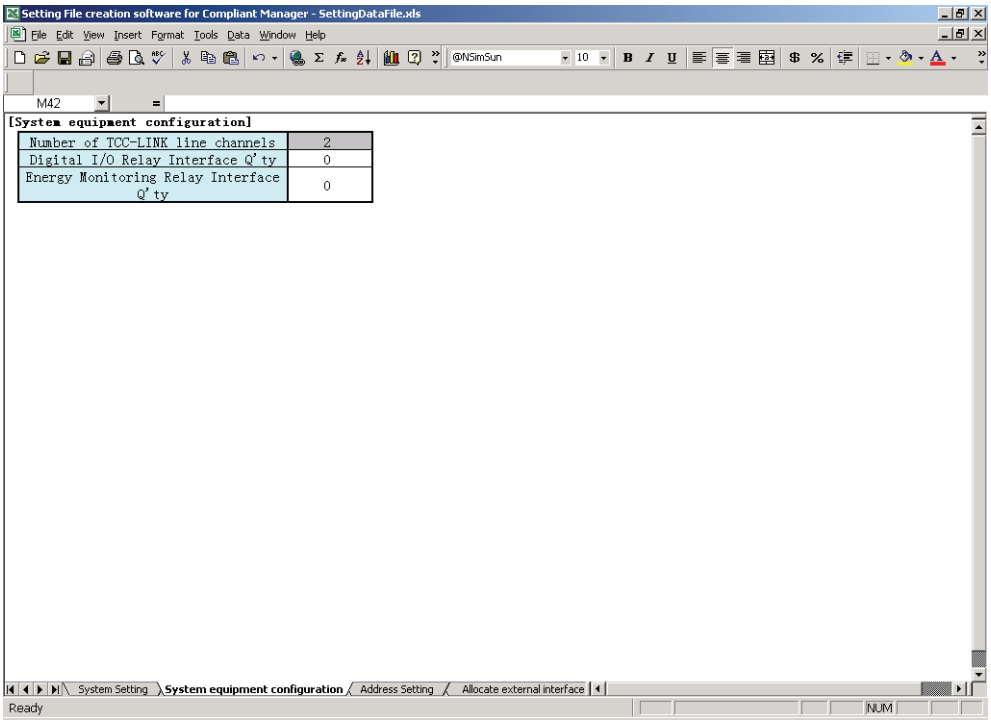
6-1-3 Buttons

1) [Setting File create]
Used to output setting files.
Press this button after entering all data on every sheet to execute the creation of a setting file.

6-2 "System equipment configuration" sheet

This sheet is used to specify the number of units of interface equipment.

6-2-1 Window Image



6-2-2 Window Description

(1) Number of TCC-LINK line channels
Displays the number of TCC-LINK line channels of the compliant manager. The number of channels is fixed to 2 and cannot be changed.

(2) Digital I/O Relay Interface Q'ty
Specify the number of Digital I/O Relay Interfaces.

(3) Energy Monitoring Relay Interface Q'ty
Specify the number of Energy Monitoring Relay Interfaces.

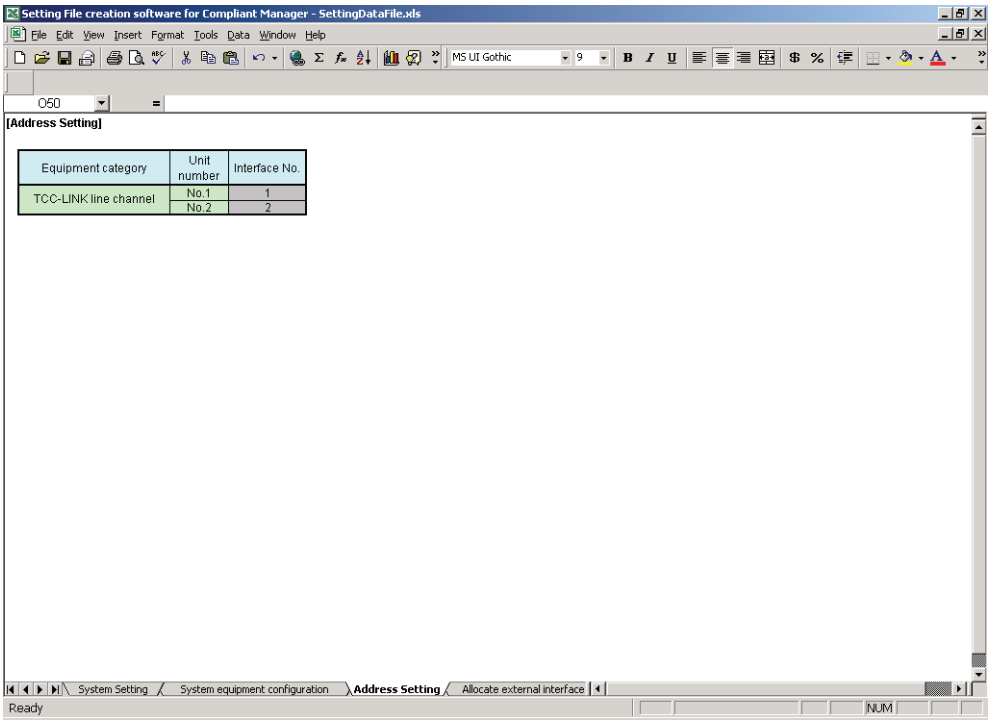
6-2-3 Buttons

No buttons are provided in this sheet.

6-3 "Address Setting" sheet

This sheet is used to specify the interface number of each device to be connected.
Input data in these columns beforehand because the address setting table is automatically created based on the each column in a "System configuration" sheet.

6-3-1 Window Image



6-3-2 Window Description

(1) Equipment category (input prohibited)
TCC-LINK and interface names are listed.

(2) Unit number (input prohibited)
Numbers of units in respective lines are listed.
Do not input data directly in this column.

(3) TCS-Net Relay Interface address
For lines where equipment category is TCC-LINK, the line number of TCC-LINK of the channel is displayed.
For lines where equipment category is an interface, specify the interface unit number in this column.

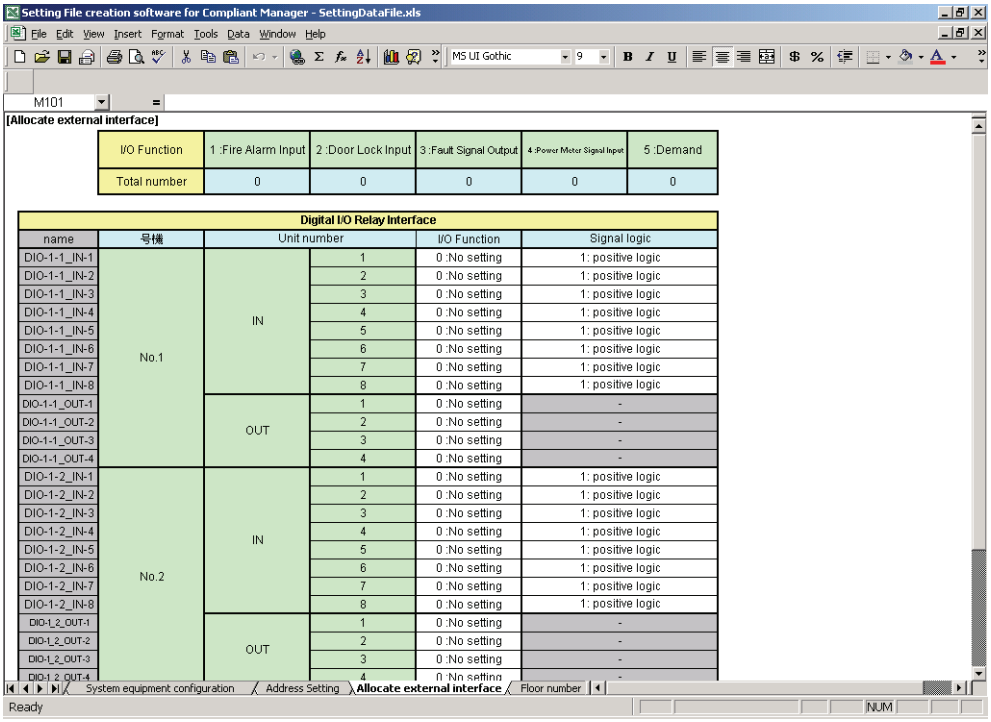
6-3-3 Buttons (Common in the whole language environment)

No buttons are provided in this sheet.

6-4 "Allocate external interface" sheet

This sheet is used to set the assignment of the fire alarm input function assigned to each channel of interface equipment that is set in "System equipment configuration" and "Address setting" sheets. Input data in these columns beforehand because the system equipment function assignment table is automatically created based on each column in "System configuration" and "Address setting" sheets.

6-4-1 Window Image



6-4-2 Window Description

(1) Total function assignment quantity table (Japanese environment and language environment other than Japanese)
The total number of fire alarm input, door-lock input, emergency external output, power meter input functions assigned to the channels of equipment is displayed in this table. If a number larger than the maximum 32 (or 16 for emergency external output) is assigned for a single function, the cell of the item is displayed in red.

(2) Digital I/O interface table (Language environment other than Japanese)
The functions assigned to each channel of a digital I/O interface are set in this table.
"Door-lock input", "fire alarm input" functions can be assigned to the input channel. An "emergency external output" function can be assigned to the output channel. For channels to which one or more functions are assigned, set pulse constants in the "Signal logic" column.
See the precaution in 6-4-2-1 for the assignment of an "abnormal external output" function.

(3) Pulse counter interface table
The channel of a pulse counter interface to which power meter input is assigned is set in this table. Power meter input is assigned to the number unit and channel by setting "4: Power" in a "Function" column.
For channels to which "4: Power" is assigned, set pulse constants in the "Pulse constants" column.

6-4-2-1 Precaution on Assignment of Abnormal External Output

Pay attention when assigning an "abnormal external output" function. In setting file ERROR_CODE.DEF created using this software, it is described that an abnormal external output signal is output to only one output destination. Therefore, usually assign "Abnormal external output" to only one point in the channels of all equipment.

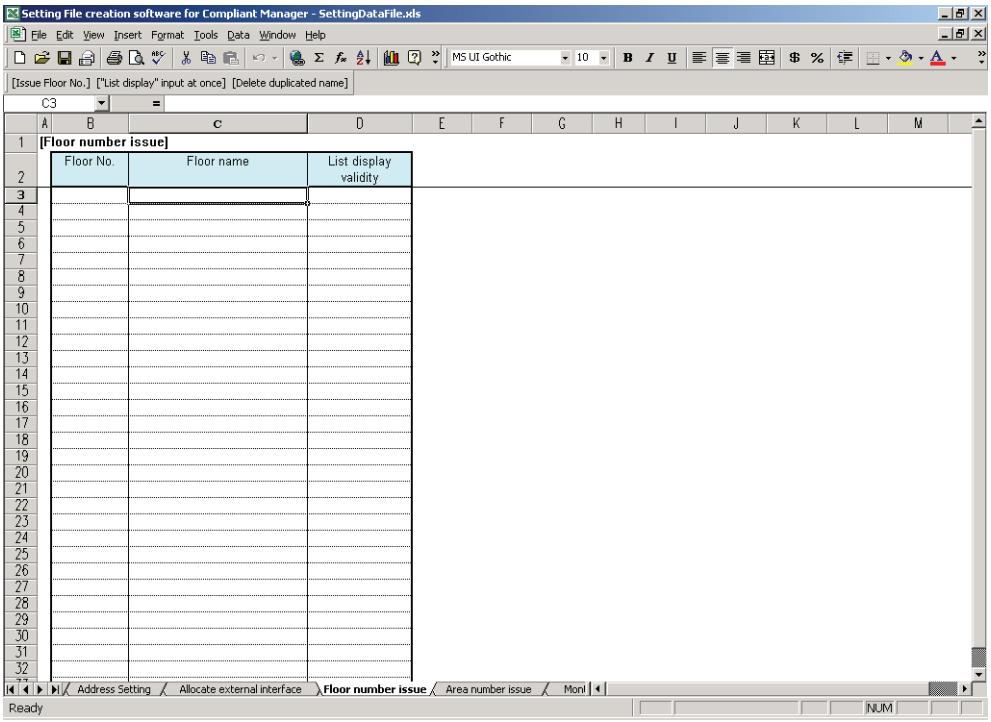
6-4-3 Buttons

No buttons are provided in this sheet.

6-5 "Floor number issue" sheet

This sheet is used to register floor names. Ensure one or more floors are registered.

6-5-1 Window Image



6-5-2 Window Description

(1) Floor No.
A unique number is assigned to each floor name. Floor numbers can be issued by pressing [Floor number issue] button.

(2) Floor name
Input a floor name to be displayed on the Touch Screen Controller screen.

(3) List display validity
Specify whether to display the floor name on this line when entering data in the "Floor name" column in the "Indoor unit group definition" sheet.

6-5-3 Buttons

1) [Floor number issue]
Used to issue floor numbers to the "Floor No." column sequentially beginning with 1.

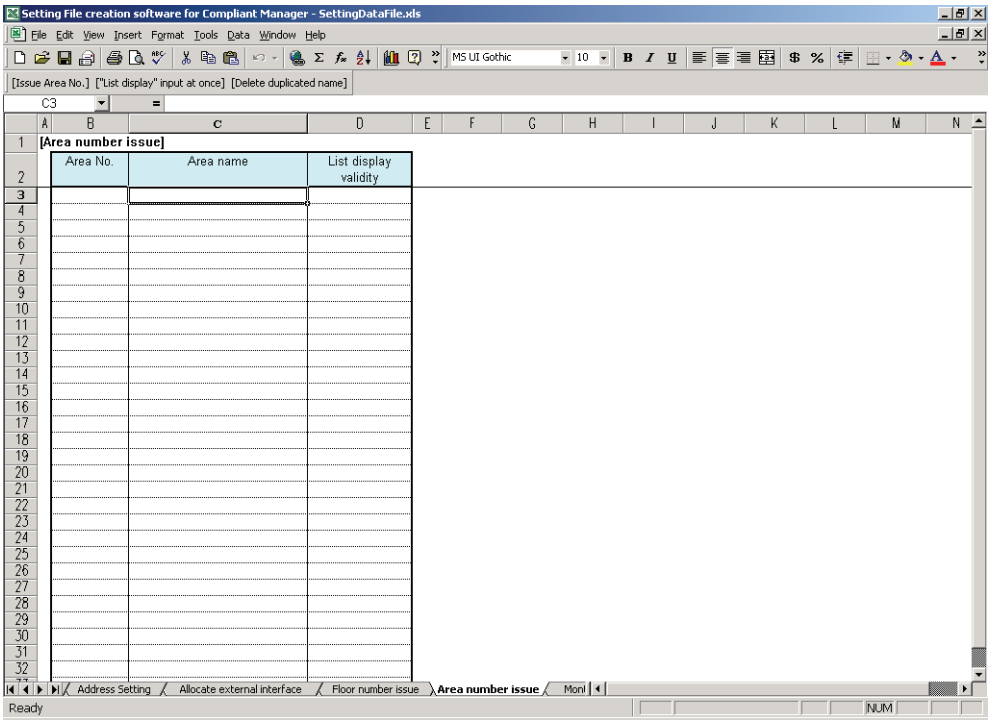
2) ["List display" input at once]
Used to set "1: display" for "List display validity" on all lines with a floor name.

3) [Delete duplicate monthly report tenant name]
Used to delete the duplicated line, if any floor name are duplicated.

6-6 "Area number issue" sheet

This sheet is used to register area names. Ensure one or more area names are registered.

6-6-1 Window Image



6-6-2 Window Description

(1) Area No.
A unique number assigned to each area name. Area numbers can be issued by pressing [Area number issue] button.

(2) Area name
Input an area name to be displayed on the Touch Screen Controller screen.

(3) List display validity
Specify whether to display the area name on this line when entering data in the "Area name" column in the "Indoor unit group definition" sheet.

6-6-3 Buttons

1) [Area number issue]
Used to issue area numbers to the "Area No." column sequentially beginning with 1.

2) ["List display" input at once]
Used to set "1: display" for "List display validity" on all lines with a area name.

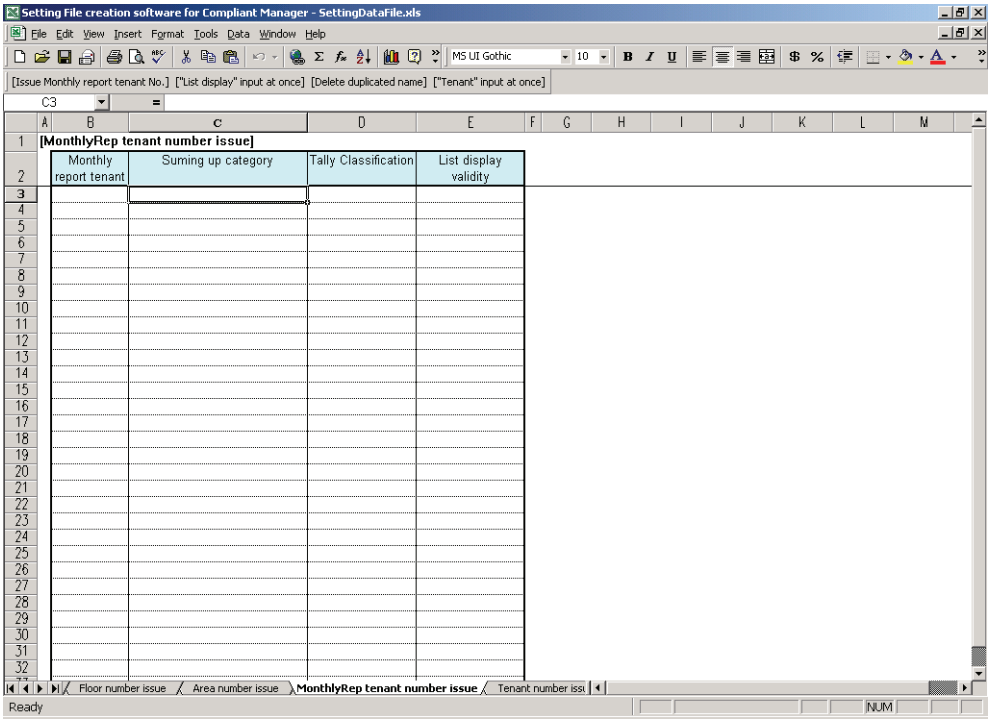
3) [Delete duplicate monthly report tenant name]
Used to delete the duplicated line, if any area name are duplicated.

6-7 "Monthly report tenant name definition" sheet

This sheet is used to register monthly report tenant names.

Be sure to register one or more monthly report tenants. This setting is only used when a monthly report is created.

6-7-1 Window Image



6-7-2 Window Description

(1) Monthly report tenant number
A unique number assigned to each monthly report tenant name. Monthly report tenant numbers can be issued by pressing [Monthly report tenant number issue] button.

(2) Monthly report tenant name
Input a tenant name to be used for the monthly report.

(3) Summing up category
Specify a section to be displayed when a monthly report is created.
Choose "0: N/A," "1: Common use area" or "2: Tenant".
Choose "2: Tenant" usually.

(4) List display validity
Specify whether to display the monthly report tenant name on this line when entering data in the "Monthly report tenant name" column in the "Tenant number issue" sheet.

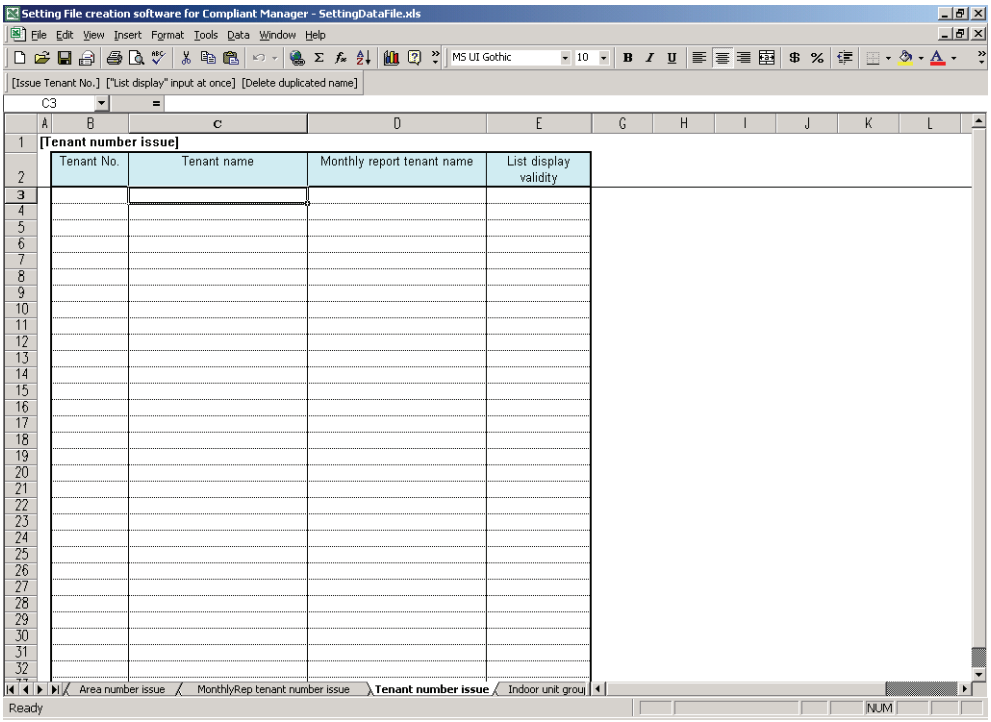
6-7-3 Buttons

1) [Monthly report tenant number issue]
   Used to issue tenant numbers to the "Monthly report tenant No." column sequentially beginning with 1.
2) ["List display" input at once]
   Used to set "1: display" for "List display validity" on all lines with a monthly report tenant name.
3) [Delete duplicate monthly report tenant name]
   Used to delete the duplicated line, if any monthly report tenant names are duplicated.

6-8 "Tenant number issue" sheet

This sheet is used to register tenant names. Be sure to register one or more tenants.

6-8-1 Window Image



6-8-2 Window Description

(1) Tenant No.
A unique number assigned to each tenant name. Tenant numbers can be issued by pressing [Tenant number issue] button.

(2) Tenant name
Input a tenant name to be displayed on the Touch Screen Controller screen.

(3) Monthly report tenant name
Input a monthly report tenant name corresponding to the tenant on the line.
A dialog in which the list of a monthly report tenant name is displayed appears when you choose this column.
Choose the desired monthly report tenant name from the list (see 7-3).

(4) List display validity
Specify whether to display the tenant name on this line when entering data in the "Tenant name" column on the "Indoor unit group definition" sheet.

6-8-3 Buttons

1) [Tenant number issue]
Used to issue tenant numbers to the "Tenant No." column sequentially beginning with 1.

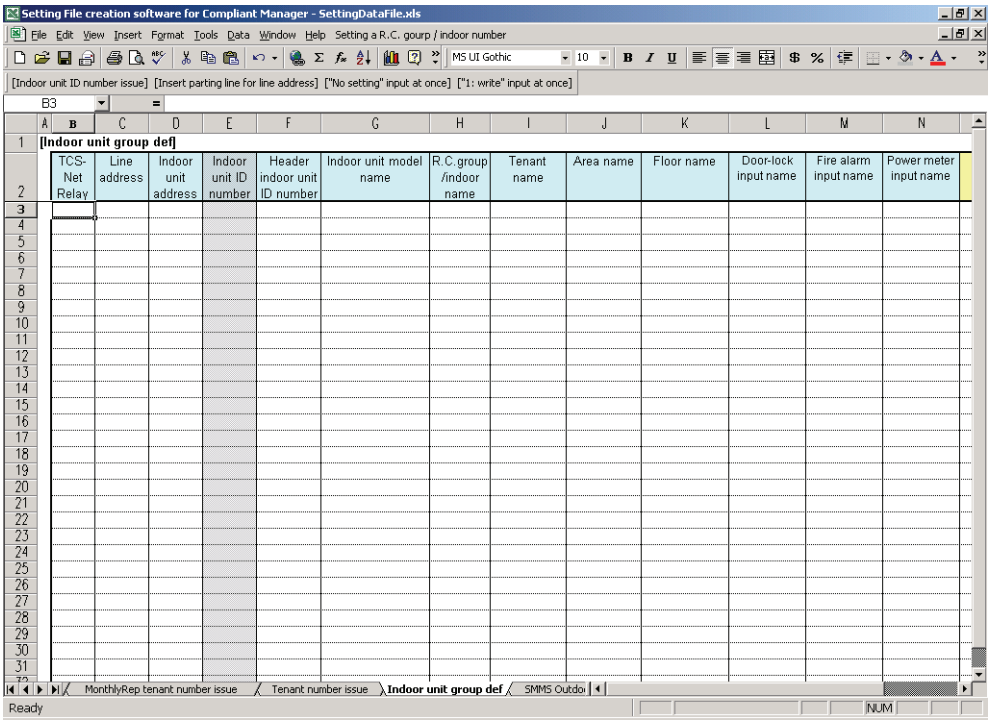
2) ["List display" input at once]
Used to set "1: display" for "List display validity" on all lines with a tenant name.

3) [Delete duplicated tenant name]
Used to delete the line of duplication, if any tenant name is duplicated.

6-9 "Indoor unit group definition" sheet

In this sheet, performs that registration for a SMMS indoor unit, Digital Inverter/Super Digital Inverter equipment, and assignation of these indoor units with floor, tenant and area, and others.

6-9-1 Window Image



6-9-2 Window Description

(1) Line-No.
Input the TCC-LINK line channel of the compliant manager corresponding to the indoor unit on the line.

(2) Line address
Input refrigerant line address of the indoor unit on the line.

(3) Indoor unit address
Input indoor unit address of the indoor unit on the line.

(4) Indoor unit ID number (input prohibited)
This number is using for identification of each indoor unit.
Press [Indoor unit ID number issue] to input data automatically.

(5) Header indoor unit ID number
When the indoor unit on the line is a header unit, set to "0". When it is a follower unit, input the header indoor unit ID number.

(6) Indoor unit model name
Specify indoor unit model name of the indoor unit on the line.
When the indoor unit on the line is a Digital Inverter/Super Digital Inverter equipment, input a Digital Inverter/ Super Digital Inverter equipment model name.
A dialog in which the list of a SMMS indoor unit, Digital Inverter/Super Digital Inverter equipment is displayed appears when you choose this column. Choose the desired indoor unit model name from the list (see 7-3).

(7) R.C. group/indoor name
Specify R.C. group/indoor name of the indoor unit on the line.
See 6-9-3 during input of an indoor follower unit.

(8) Tenant name
Specify tenant name to which the indoor unit on the line belongs.
A dialog in which the list of a tenant name is displayed appears when you choose this column. Choose the desired tenant name from the list (see 7-3). See 6-9-3 during input of an indoor follower unit.

(9) Area name
Specify area name to which the indoor unit on the line belongs.
A dialog in which the list of an area name is displayed appears when you choose this column. Choose the desired area name from the list (see 7-3). See 6-9-3 during input of an indoor follower unit.

(10) Floor name
Specify floor name to which the indoor unit on the line belongs.
A dialog in which the list of a floor name is displayed appears when you choose this column. Choose the desired floor name from the list (see 7-3). See 6-9-3 during input of an indoor follower unit.

(11) Door-lock input name
Specify a door-lock input name when the indoor unit on the line performs door-lock interlocking.
Select "No setting" when door-lock interlocking is not used.
A dialog in which the list of a door-lock input name is displayed appears when you choose this column. Choose the desired door-lock input name from the list (see 7-3). The door-lock input name corresponds to the "Name" column in a "Allocate external interface" sheet. See 6-9-3 during input of an indoor follower unit.

(12) Fire alarm input name
Specify a fire alarm input name when the indoor unit on the line performs fire alarm interlocking.
Select "No setting" when fire alarm interlocking is not used.
A dialog in which the list of a fire alarm input name is displayed appears when you choose this column. Choose the desired fire alarm input name from the list (see 7-3). The fire alarm input name corresponds to the "Name" column in a "Allocate external interface" sheet. See 6-9-3 during input of an indoor follower unit.

(13) Power meter input name
Specify a power meter input name corresponding to the indoor unit on the line when using energy monitoring.
Select "No setting" when energy monitoring is not used.
A dialog in which the list of a power meter input name is displayed appears when you choose this column. Choose the desired power meter input name from the list (see 7-3). The power meter input name corresponds to the "Name" column in a "Allocate external interface" sheet. See 6-9-3 during input of an indoor follower unit.

(14) Write to setting file
Specify whether to output the indoor unit data on the line to the setting file. When set to "0: Not write", the indoor unit data on the line is not output to the setting file.

6-9-3 Precaution during Input of Indoor Follower Unit

For an indoor follower unit, input the same value as for a header unit in "Indoor system name", "Tenant name", "Area name", "Floor name", "locking input name", "fire alarm input name", and "Power meter input name" columns. Only the value input to an indoor header unit is used during setting file creation when a value that differs in indoor header and follower units is input in these columns. The value of an indoor follower unit is not used in this case.

6-9-4 Buttons

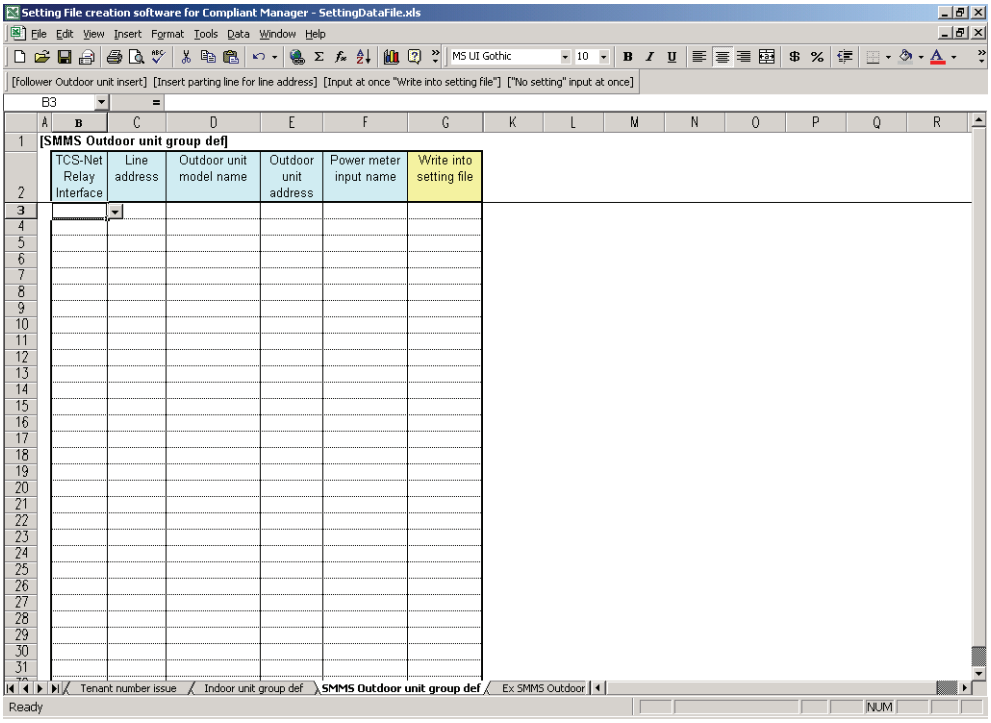
1) [Indoor unit ID number issue]
   Used to issue indoor unit specific numbers to the "Indoor unit ID number" column sequentially from the top.
2) [Insert parting line for line address]
   Used to separate refrigerant systems in the table with horizontal lines.
3) ["No setting" input at once]
   Used to specify "No setting" in all the lines of selected items when "Door-lock input name," "Fire alarm input name" and "Power meter input name" are currently selected.
4) ["1: write" input at once]
   Used to specify "1: write" in all the lines of "Write into setting file".

6-10 "SMMS Outdoor unit group definition" sheet

This sheet is used to input various setting data for Super Modular Multi System outdoor units.

Input data for all connected outdoor units.
When input data of outdoor set model name, fill in the header outdoor unit line and press [Outdoor follower unit insert]. Lines of outdoor follower units corresponding to the outdoor set model name are inserted automatically.

6-10-1 Window Image



6-10-2 Window Description

(1) Line_No.
Input the TCC-LINK line channel of the compliant manager corresponding to the outdoor unit on the line.

(2) Line address
Input refrigerant line address of the outdoor unit on the line.

(3) Outdoor unit model name
Input outdoor unit model name of the outdoor unit on the line.
A dialog in which the list of an outdoor unit model name is displayed appears when you choose this column. Choose the desired outdoor unit model name from the list (see 7-3).

(4) Outdoor unit address
Input outdoor unit address of the outdoor unit on the line.

(5) Power meter input name
Specify a power meter input name corresponding to the outdoor unit on the line when sharing power proportionally. Even for the line of an outdoor follower unit, input a power meter input name corresponding to the outdoor follower unit. (Set for each outdoor unit.)
Choose "No setting" when not sharing power proportionally or not making a power meter input name correspond to the outdoor follower unit.
A dialog in which the list of a power meter input name is displayed appears when you choose this column. Choose the desired power meter input name from the list (see 7-3). The power meter input name corresponds to the "Name" column in a "Allocate external interface" sheet.

(6) Write to setting file
Specify whether to output the outdoor unit data on the line to the setting file. When set to "0: Not write", the outdoor unit data on the line is not output to the setting file.

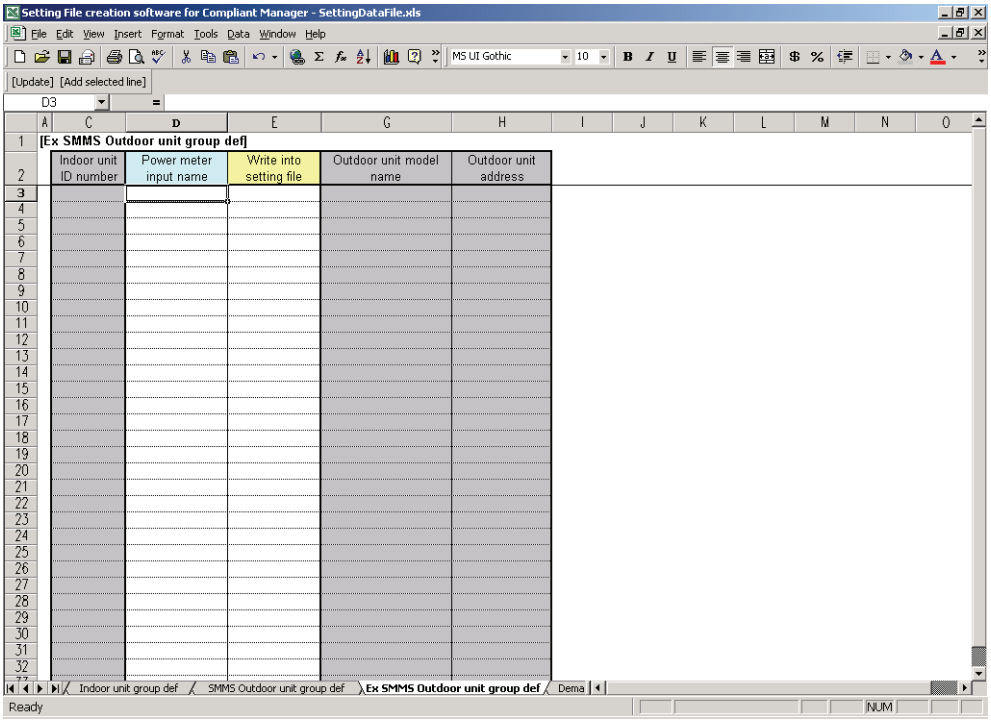
6-10-3 Buttons

1) [Outdoor follower unit insert]
Used to insert lines by finding the number of follower outdoor units from the model name when the model name in "Outdoor unit model name" is a set model name.
2) [Insert parting line for line address]
Used to separate refrigerant systems in the table with horizontal lines.
3) [Insert at once "Write into setting file"]
Used to specify "1: write" for "Write into setting file" on all the lines with data.
4) [Input at once "No setting"]
Used to input "No setting" in all lines of a "Power meter input name" column.

6-11 "Ex SMMS Outdoor unit group definition" sheet

This sheet is used to specify power meter input corresponding to the outdoor unit of Air conditioner connecting to a Digital Inverter/Super Digital Inverter equipment when sharing power proportionally and Air conditioner connecting to a Digital Inverter/Super Digital Inverter equipment, general purpose interface or digital I/O relay interface.
Input data in this sheet when sharing data proportionally and using Air conditioner connecting to a Digital Inverter/ Super Digital Inverter equipment. This sheet is not used irrespective of the presence of data input when power is not shared proportionally. Even in case that power is proportionally shared, this sheet is not used when neither Air conditioner connecting to a Digital Inverter/Super Digital Inverter equipment is used.

6-11-1 Screen Image



6-11-2 Description of Items

- **Input items**

(1) Power meter input name
Specify a power meter input name corresponding to the outdoor unit on the line.
A dialog in which the list of a power meter input name is displayed appears when you choose this column. Choose the desired power meter input name from the list (see 7-3). The power meter input name corresponds to the "Name" column in a "Allocate external interface" sheet.

(2) Write into setting file
Specify whether to output the outdoor unit data on the line to the setting file. When set to "0: Not write", the outdoor unit data on the line is not output to the setting file.

• **Input prohibited items**

(3) Indoor unit ID number (input prohibited)
The indoor unit ID number Air conditioner connecting to a Digital Inverter/Super Digital Inverter equipment, input in an "Indoor unit group definition" sheet corresponding to the outdoor unit on the line is input in this column.
Press the [New] button to input data automatically.

(4) Outdoor unit model name (input prohibited)
The value of the [Indoor unit model name] column is displayed that is entering in the "Indoor unit group definition" sheet, corresponding to air conditioner which connecting to a Digital Inverter/Super Digital Inverter equipment.
Press the [New] button to input data automatically.

(5) Outdoor unit address (input prohibited)
This address is used to distinguish the outdoor units when multiple outdoor units that are the same in a system are registered.
Press the [New] or [Line insert] button to input data automatically.

6-11-3 Buttons

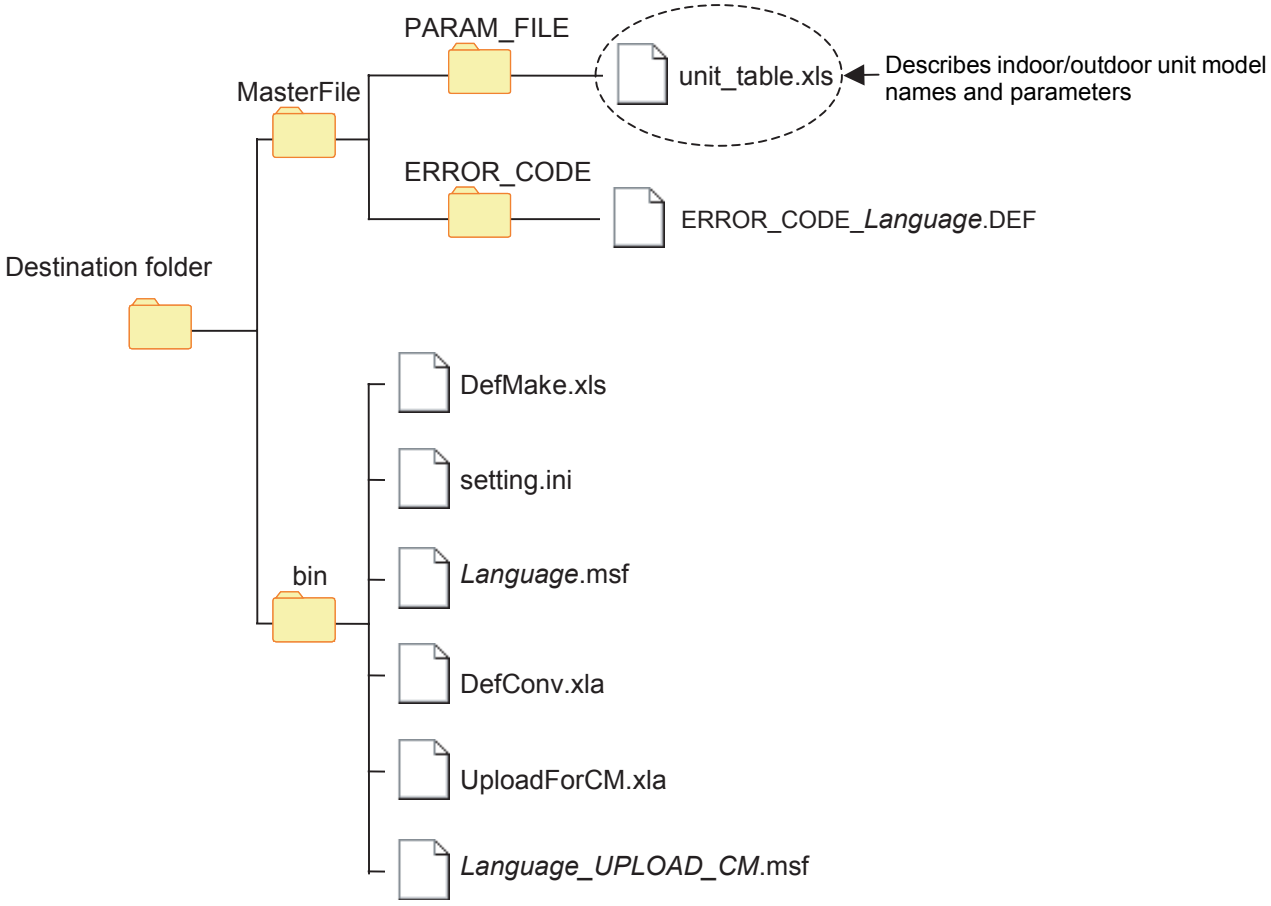
1) [New]
In Air conditioner connecting to a Digital Inverter/Super Digital Inverter equipment in an "Indoor unit group definition" sheet, the system data not registered in an "Ex SMMS Outdoor unit group definition" sheet is automatically input to each system one line at a time.
No data input is required in an "Ex SMMS Outdoor unit group definition" sheet when power is not proportionally shared (when "0: Void" is set in the "Proportional power sharing" column in a "System Setting" sheet. Therefore, this button does not function.

2) [Line add]
A new line is added for the system of a line that is in the cell selection state by one line.
This button is used when making power meter input correspond to multiple outdoor units in the system of one Air conditioner connecting to a Digital Inverter/Super Digital Inverter equipment.

7. Notes

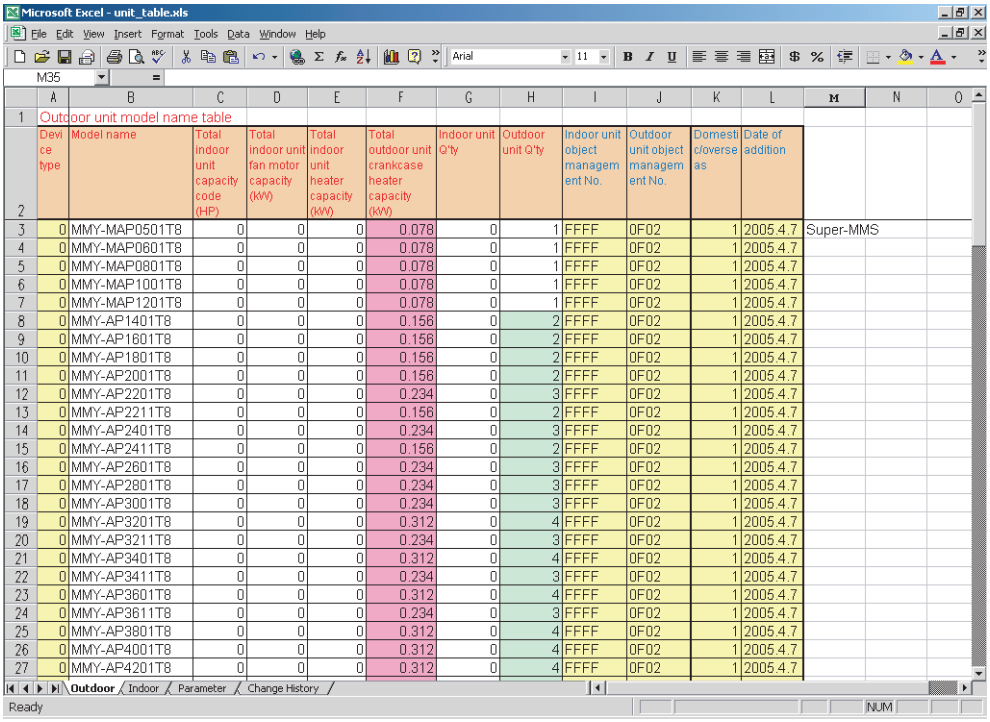
7-1 Equipment model table "unit_table.xls"

The model lists displayed by "Indoor unit model name" in the "Indoor unit group definition" sheet and by "Outdoor unit model name" in the "SMMS Outdoor unit group definition" sheet are described in the "unit_table.xls" file. Registration of new model names and model name parameter change are made possible by editing this file. Once a model name is registered, the model name can be selected from the model list displayed by "Indoor unit model name" in the "Indoor unit group definition" sheet and by "Outdoor unit model name" in the "SMMS Outdoor unit group definition" sheet. Furthermore, parameters such as indoor unit capacity code can be input automatically.



7-1-1 Registering indoor unit/outdoor unit model names in Equipment model table

Open "unit_table.xls" with Microsoft Excel (Fig. 7-1).



Microsoft Excel - unit_table.xls

File Edit View Insert Format Tools Data Window Help

M35

Outdoor unit model name table

	Device type	Model name	Total indoor unit capacity code (HP)	Total indoor unit fan motor capacity (kW)	Total indoor unit heater capacity (kW)	Total outdoor unit crankcase heater capacity (kW)	Indoor unit Q'ty	Outdoor unit Q'ty	Indoor unit object management No.	Outdoor unit object management No.	Domestic/overseas	Date of addition	
3	0	MMY-MAP0501T8	0	0	0	0.078	0	1	FFFF	0F02	1	2005.4.7	Super-MMS
4	0	MMY-MAP0601T8	0	0	0	0.078	0	1	FFFF	0F02	1	2005.4.7	
5	0	MMY-MAP0801T8	0	0	0	0.078	0	1	FFFF	0F02	1	2005.4.7	
6	0	MMY-MAP1001T8	0	0	0	0.078	0	1	FFFF	0F02	1	2005.4.7	
7	0	MMY-MAP1201T8	0	0	0	0.078	0	1	FFFF	0F02	1	2005.4.7	
8	0	MMY-AP1401T8	0	0	0	0.156	0	2	FFFF	0F02	1	2005.4.7	
9	0	MMY-AP1601T8	0	0	0	0.156	0	2	FFFF	0F02	1	2005.4.7	
10	0	MMY-AP1801T8	0	0	0	0.156	0	2	FFFF	0F02	1	2005.4.7	
11	0	MMY-AP2001T8	0	0	0	0.156	0	2	FFFF	0F02	1	2005.4.7	
12	0	MMY-AP2201T8	0	0	0	0.234	0	3	FFFF	0F02	1	2005.4.7	
13	0	MMY-AP2211T8	0	0	0	0.156	0	2	FFFF	0F02	1	2005.4.7	
14	0	MMY-AP2401T8	0	0	0	0.234	0	3	FFFF	0F02	1	2005.4.7	
15	0	MMY-AP2411T8	0	0	0	0.156	0	2	FFFF	0F02	1	2005.4.7	
16	0	MMY-AP2601T8	0	0	0	0.234	0	3	FFFF	0F02	1	2005.4.7	
17	0	MMY-AP2801T8	0	0	0	0.234	0	3	FFFF	0F02	1	2005.4.7	
18	0	MMY-AP3001T8	0	0	0	0.234	0	3	FFFF	0F02	1	2005.4.7	
19	0	MMY-AP3201T8	0	0	0	0.312	0	4	FFFF	0F02	1	2005.4.7	
20	0	MMY-AP3211T8	0	0	0	0.234	0	3	FFFF	0F02	1	2005.4.7	
21	0	MMY-AP3401T8	0	0	0	0.312	0	4	FFFF	0F02	1	2005.4.7	
22	0	MMY-AP3411T8	0	0	0	0.234	0	3	FFFF	0F02	1	2005.4.7	
23	0	MMY-AP3601T8	0	0	0	0.312	0	4	FFFF	0F02	1	2005.4.7	
24	0	MMY-AP3611T8	0	0	0	0.234	0	3	FFFF	0F02	1	2005.4.7	
25	0	MMY-AP3801T8	0	0	0	0.312	0	4	FFFF	0F02	1	2005.4.7	
26	0	MMY-AP4001T8	0	0	0	0.312	0	4	FFFF	0F02	1	2005.4.7	
27	0	MMY-AP4201T8	0	0	0	0.312	0	4	FFFF	0F02	1	2005.4.7	

Outdoor / Indoor / Parameter / Change History

Ready NUM

Fig. 7-1 "unit_table.xls" window

The "unit_table.xls" file includes 3 sheets: "Outdoor," "Indoor," and "Parameter". The Outdoor sheet describes the outdoor unit parameters and the Indoor sheet describes the indoor unit parameters.

To register an outdoor unit model name, describe the parameters for the following items in the table on the Outdoor sheet.

- "Device type"
  Input "0" for multi-system models.
- "Model name"
  Input an outdoor unit model name to be registered.
- "Total indoor unit capacity code (HP)," "Total indoor unit fan motor capacity (kW)," "Total indoor unit heater capacity (kW)"
  Input "0".
- "Total outdoor unit crankcase heater capacity (kW)"
  Input total outdoor unit crankcase heater capacity of the models to be registered in kW.
- "Indoor unit Qty"
  Input "0".
- "Outdoor unit Qty"
  Input "1" for single outdoor unit model name.
  For outdoor units with set model name, input the number of outdoor units defined by the set model name.
- "Indoor unit object management No."
  Input "FFFF".
- "Outdoor unit object management No."
  Input "0F02" for multi-system equipment.
- "Domestic/overseas," "Date of addition"
  Do not input data for these items. Use for reference.

To register an indoor unit model name, describe the parameters for the following items in the table on the Indoor sheet.

- "Device type"
  Input "0" for multi-system models or "1" for Digital Inverter/Super Digital Inverter models.
- "Model name"
  Input the outdoor unit model name to be registered.
  Input a set model name for Digital Inverter/Super Digital Inverter models.
- "Total indoor unit capacity code (HP)," "Total indoor unit fan motor capacity (kW)," "Total indoor unit heater capacity (kW)"
  Input parameters of the models to be registered.
- "Total outdoor unit crankcase heater capacity (kW)"
  Input "0" for multi-system models.
  For Digital Inverter/Super Digital Inverter models, input the total outdoor unit crankcase heater capacity in kW.
- "Indoor unit Qty"
  Input "1" for single indoor unit model name.
  For indoor units with set model name, input the number of indoor units defined by the set model name.
- "Outdoor unit Qty"
  Input "0" for multi-system models.
  For Digital Inverter/Super Digital Inverter models, input the number of outdoor units defined by the set model name.
- "Indoor unit object management No."
  Input "0F01" for multi-system models.
  Input "0F88" for Digital Inverter/Super Digital Inverter models.
- "Outdoor unit object management No."
  Input "FFFF".
- Type
  Enter the indoor unit type.
- "Domestic/overseas," "Date of addition," "Outdoor unit model name" and "Indoor unit model name"
  You need not input data for these items. Use for reference.

When input of these items is completed, overwrite (save) the "unit_table.xls" file and close the window. Registered model names are available for the next time the Setting File Creation Software is used.

7-2 Setting file output

Setting file output starts by pressing [Setting File create] on the "System Setting" sheet.
When the [Setting File create] button is pressed, the following dialog (Fig. 7-2) appears. Click [OK] on the dialog.

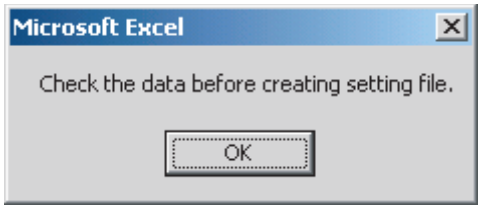


Fig. 7-2 Data checking start dialog

Checking of data in the sheets start. If no data or invalid data is found, an error dialog appears and the ongoing processing is interrupted. In such case, correct the error and then press [Setting File create] again.
Setting file creation software internally assigns all header indoor unit and air conditioner number that are registered to the "Indoor unit group definition" sheet when checking of data. In this case, header indoor unit that are assigned the air conditioner number previously, hold these air conditioner number. Air conditioner number use an air conditioner for the number in identifying for that air conditioning control system set the power sharing proportionally or scheduled operation/accounting. Therefore, when modifying the setting file content of the object that performs the power sharing proportionally or scheduled operation/accounting setting and it realized them previously, there is necessary not to modifying assignation for air conditioner number to each header indoor unit. In this software issue the assignment to the header indoor unit of air conditioner number automatically for that may not modifying. The dialog shown in Fig. 7-3 is displayed and then it may prompt to specify the method of issuing when there is the air conditioner with a background of reissued address once during issuing the air conditioner number. In this case, click among of [Yes], [No] or [Interrupt] button and proceed to processing. Click "Air conditioner number setting" -> "Air conditioner number" -> "Number display" (see Fig. 5-6) on the menu bar when modifying the air conditioner number manually. An "Air conditioner number" column is displayed on the right end of an "Indoor unit group definition" sheet. Input a number directly in this column and modify the air conditioner number (see 9) "Indoor unit group definition" sheet in 5-2-2).

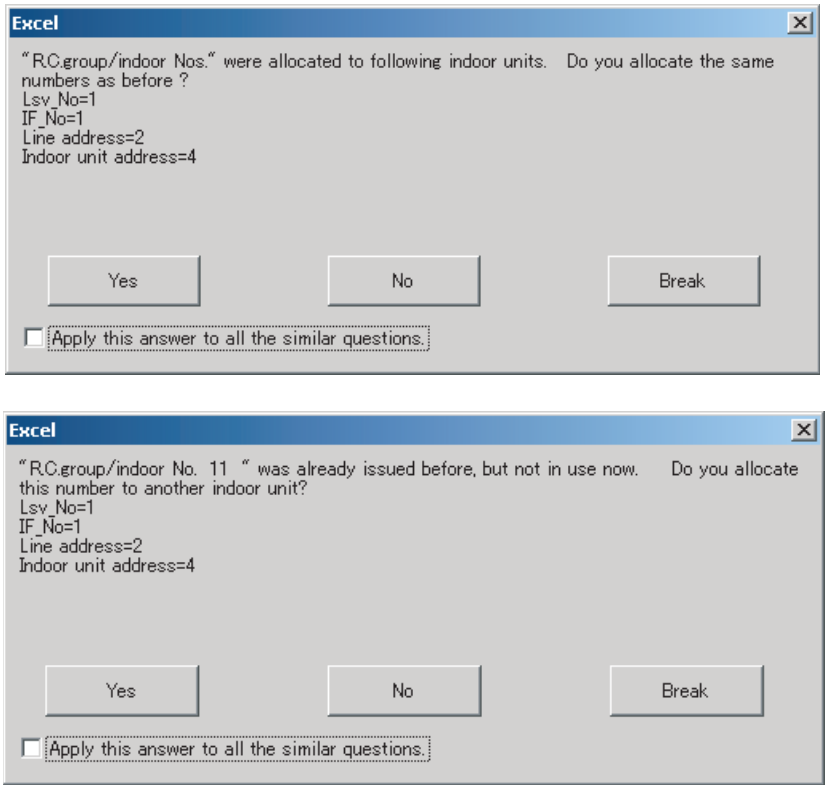


Fig. 7-3 Displaying dialog when issuing the air conditioner number

Upon completion of the data checking, the following dialog (Fig. 7-4) appears.

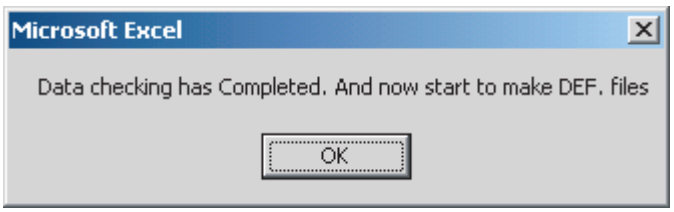


Fig. 7-4 "Data checking completed" dialog

Click [OK] on the dialog. The "Browse for Folder" dialog (Fig. 7-5) appears. Choose a folder to save the setting file to, and click [OK].

* Do not choose "Desktop" or "My Computer". This will result in an error.

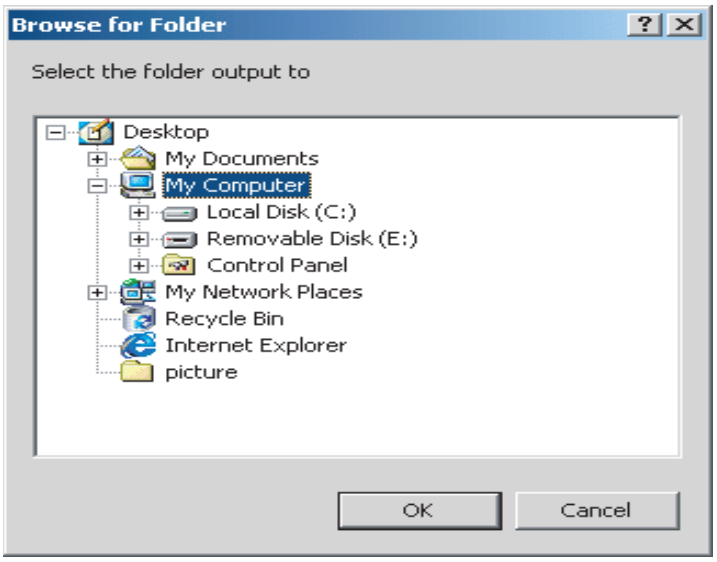


Fig. 7-5 "Browse for Folder" dialog

The setting file is output to the specified folder. Upon completion of the setting file output, the following dialog (Fig. 7-6) opens. Select the "Start the file uploader" checkbox and click [OK] on the dialog to start the file uploader. (See 7-4 for the file uploader.)

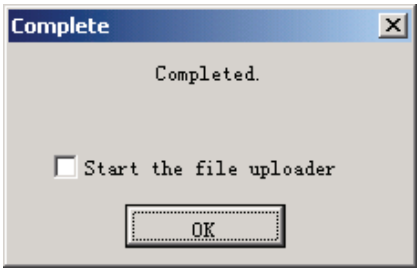


Fig. 7-6 "Setting file output completed" dialog

7-3 Data selection and input from list of "Indoor unit model name" column

This section describes the input method for list dialog here lists of input items.

- "Indoor unit group definition" sheet
  "Indoor unit model name"
  "Tenant name"
  "Area name"
  "Floor name"
  "Locking input name"
  "Fire alarm input name"
  "Power meter input name"
- "SMMS Outdoor unit group definition" sheet
  "Power meter input name"
- "Ex SMMS Outdoor unit group definition" sheet
  "Power meter input name"
- "Tenant number issue" sheet
  "Monthly report tenant name"

The dialog below is automatically displayed when you select the cell for inputting the item data described above.

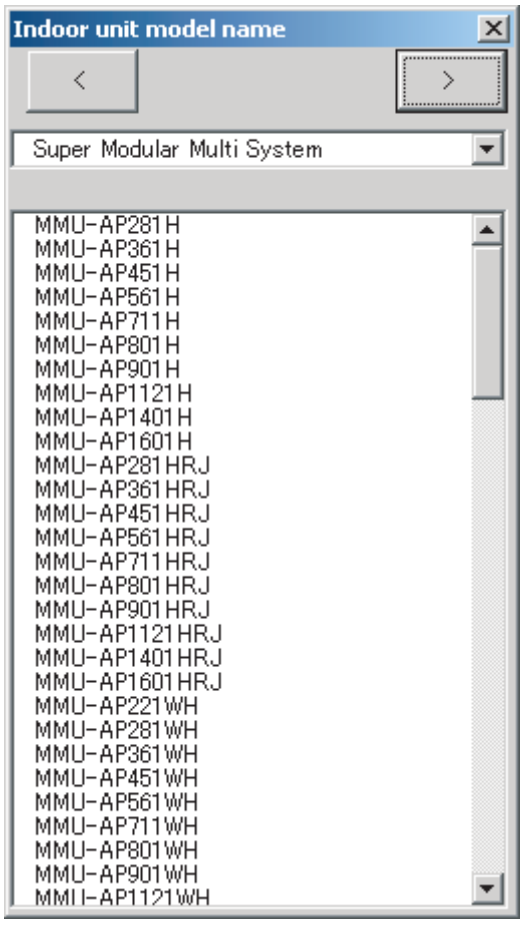


Fig. 7-7 List selection dialog

Input a model name using this dialog.

The currently selected model name and tenant name that can be input in a cell are displayed in the list box under the dialog. Click the name, you want to input, from this list to input the name in the currently selected cell. When the name is input, the selection cursor moves to the cell on the line under the cell so that you can continuously input data.
When enter the [Indoor unit model name] column, select the [SMMS], [Digital Inverter/Super Digital Inverter] in the list box upper side of dialog, and select the unit of model name displaying to lower side area. For columns other than "Indoor unit model name", this list box for model selection is not used.
Click [<] and [>] at the top of the dialog to move this dialog to the left or right end of the screen.

7-4 File Uploader

7-4-1 Overview of the File Uploader

The file uploader is a software program to upload (transfer) the setting file in a local PC (on which this software program is running) through the LAN to the compliant manager. Use this software to transfer the setting file created by the setting file creation software to the compliant manager. This software is installed at the same time when the setting file creation software for compliant manager is installed.

7-4-2 How to start the file uploader

The file uploader can be started with either of the following methods.

7-4-2-1 Starting the file uploader only

The file uploader can be started solely without starting the setting file creation software.
Double-click the "UploadForCM" icon on the desktop of the PC to start the file uploader.

Fig. 7-8 UploadForCM icon

7-4-2-2 Starting the file uploader from the setting file creation software

The file uploader can be started from the setting file creation software.
Click the [Setting File create] button displayed in the "System Setting" sheet when data is edited with the setting file creation software. Upon completion of setting file output, a dialog appears with a message "Completed." Select the "Start the file uploader" checkbox and click [OK] on this dialog to start the file uploader. (See 7-2.)

7-4-3 File upload procedure

When the file uploader is started, the following file uploader main window opens.

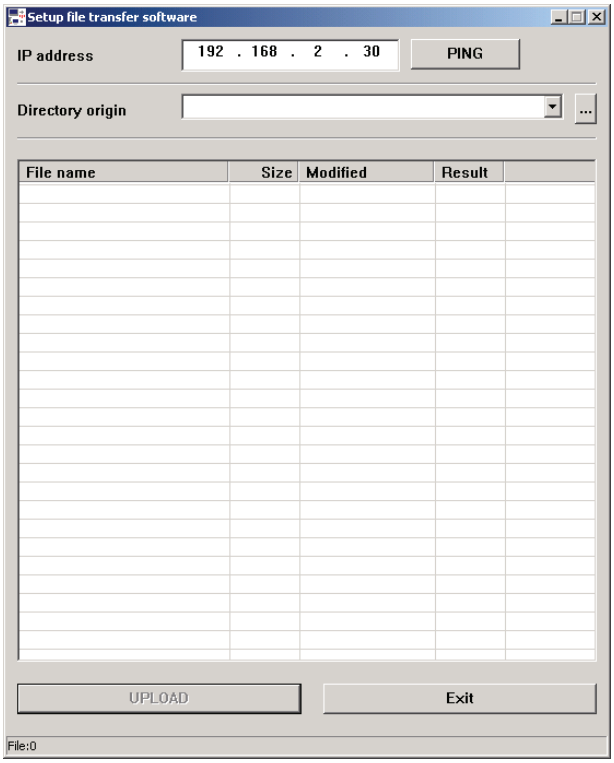
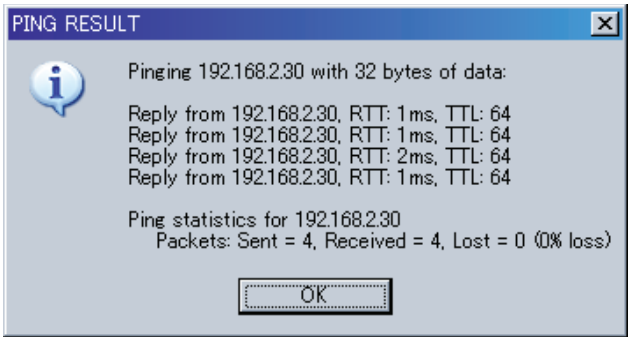


Fig. 7-9 File uploader main window

7-4-3-1 Selecting IP address and setting file

When the file uploader is started from the setting file creation software, the IP address value in the "System Setting" sheet is already set in the IP address text box, and the setting file output folder is already set in the source directory text box. When the file uploader is solely started, the IP address and source directory text boxes are blank. Specify the IP address and the source directory.
Enter the IP address of the compliant manager in the IP address text box. Clicking the [PING] button to the right of the IP address text box executes PING for the IP address and allows you to confirm the PING result (Fig. 7-8).
Enter the local PC's path of the folder that contains the setting file to be uploaded in the source directory text box. When the […] button to the right of the source directory text box is clicked, a dialog (Fig. 7-9) to specify a folder appears. When a source directory is entered, a list of files contained in the directory is displayed under the source directory text box.

When PING is successful



When PING failed

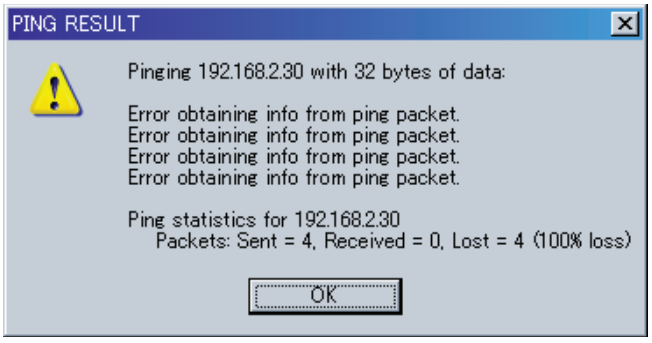


Fig. 7-10 PING execution result dialog

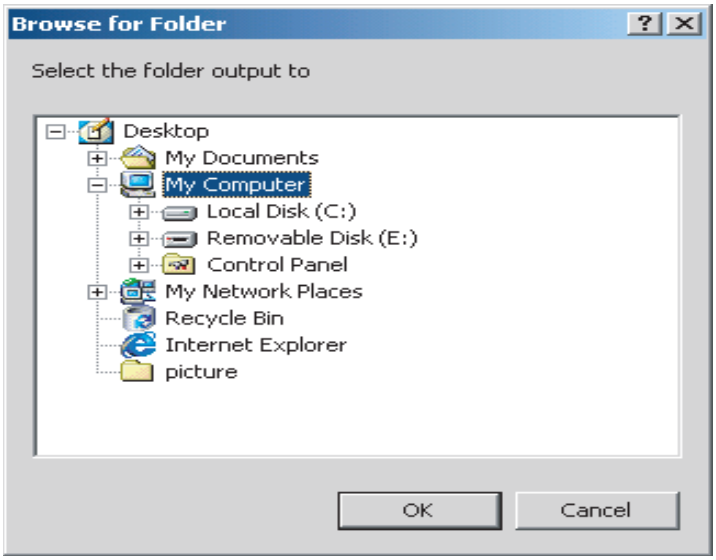


Fig. 7-11 Dialog to specify a folder

7-4-3-2 Performing upload

Click the [Upload] button with the IP address and source directory specified. A confirmation dialog appears. Click [Yes] in the dialog to start uploading the setting file.

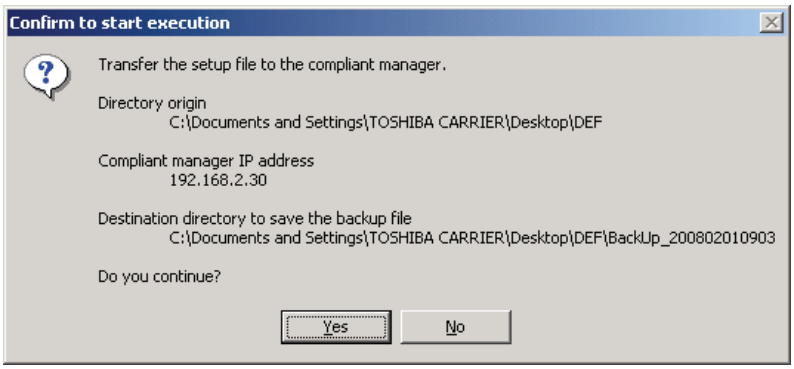


Fig. 7-19 Upload confirmation dialog

The file transfer progress can be monitored in the "Transfer result" column of the main window while the setting file is being transferred. A mark "<-" is displayed for a file in progress and "OK" is displayed for files that have been transferred. If the file transfer fails, "NG" is displayed. Do not exit the software during the upload process.

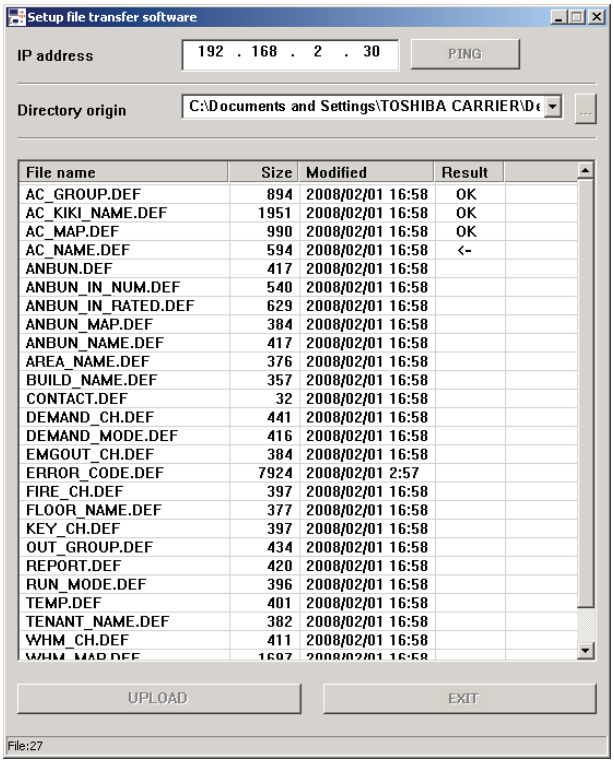


Fig. 7-20 Main window during upload

Upon completion of uploading, the following dialog appears.

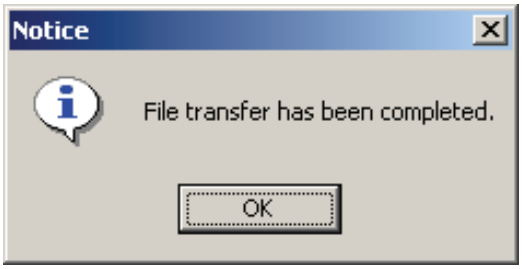


Fig. 7-21 Upload completion dialog

7-4-4 Setting file backup function of the compliant manager

The setting file stored in the compliant manager is automatically saved in the local PC before it is uploaded by using the backup function.
The setting file stored in the compliant manager is saved in the "Backup directory" shown in the following dialog that appears when the [Upload] button is clicked.

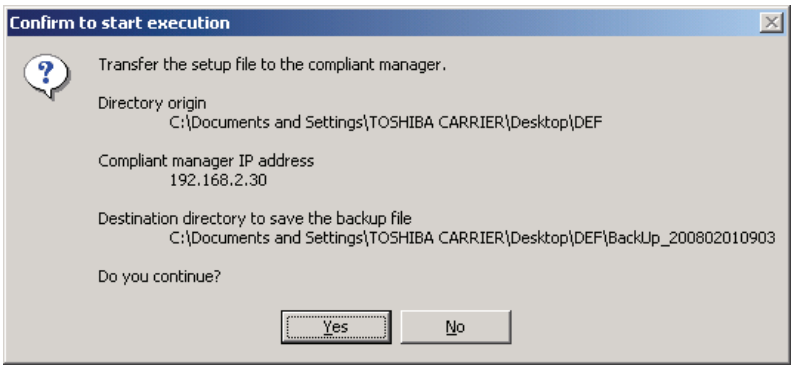


Fig. 7-22 Backup directory path is shown in the upload confirmation dialog.

This backup directory becomes a folder under "C:¥tcsForC¥cm01¥DEF" of the local PC, which is named according to the following rule.

BackUp_YYYYMMDDHHMI (YYYYMMDD: Year/month/day, HHMI: Time)
(Example) Directory name when file transfer is started at 12:34 on December 24, 2007 is as follows:
BackUp_200712241234

7-4-5 Note

Uploading of the setting file may stall when the compliant manager is performing another process, but it will restart normally after a while.

Compliant Manager
Setting File Creation Software
December 21, 2007 First edition

TOSHIBA CARRIER CORPORATION
23-17, TAKANAWA 3-CHOME, MINATOKU, TOKYO 108-0074, JAPAN

DH84308401