

**SL3N-E Utility
Ver.2.0**

Operation Manual

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Software Overview

SL3N-E Utility is the software for creating and editing the definition file (SL3Nconfig.bin/SLA3config.bin) for installing in SC-SL3N-AE and SC-SL3N-BE (Hereafter, these equipments are expressed as “SL3N”). Furthermore, SL3N-E Utility can create and edit the definition file (SLA3config.bin) for installing in previous models, SC-SLA3-E, SC-SLB3-E, SC-SLA3-ER, and SC-SLB3-ER (Hereafter, these previous model are expressed as “SLA3”).

SL3N-E Utility can create and edit the block definition, the group definition, the air conditioner unit definition, the accounting period time definition, the function setting, the yearly schedule, and the detailed daily schedule settings.

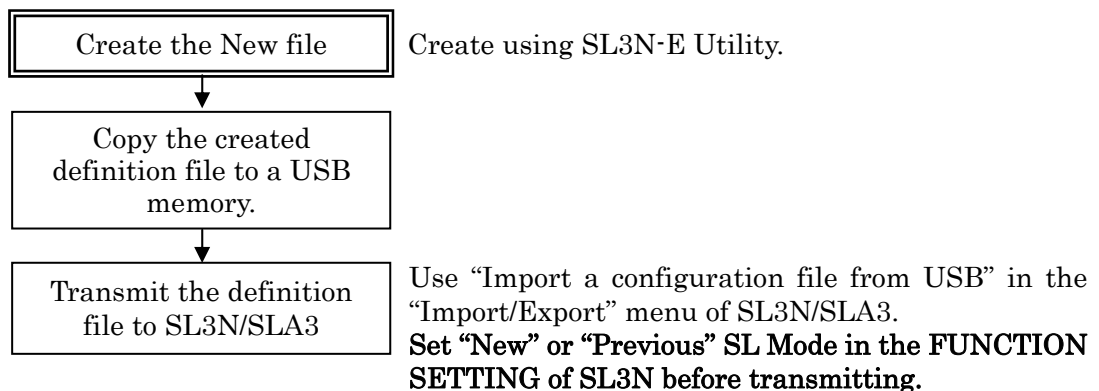
Note:

When creating a new definition file (SLA3config.bin) for use on a previous model SLA3, don't input Temperature Setting for the “Detailed daily schedule” settings. Unless this is heeded, it raises a problem that two times of temperature setting value is displayed. Temperature must be set at the SLA3.

When editing a definition file having been set at the SLA3 using SL3N-E Utility, if the temperature setting value is input for the detailed daily schedule settings even on one group only, SL3N-E Utility can recognize that it is a definition file of previous model so that correct temperature setting value can be input.

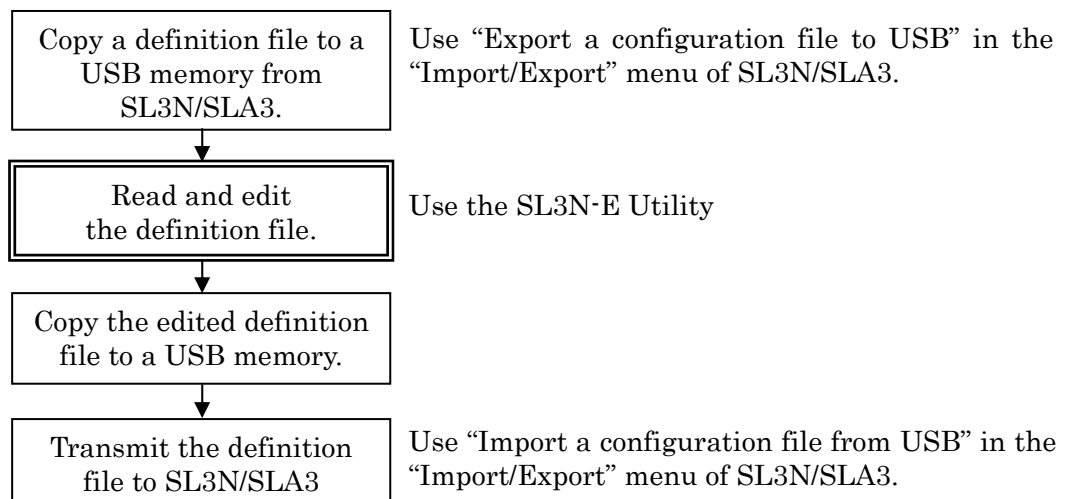
Flow of data Processing

Flow of Work in Case of Installing SL3N/SLA3 for the First Time



The SL3N imports the file “SL3Nconfig.bin” (New SL Mode) or “SLA3config.bin” (Previous SL Mode) according to the SL Mode setting in the FUNCTION SETTING. The SLA3 imports the file “SLA3config.bin”.

Flow of Work in Case of Editing the definition data of SL3N/SLA3 already installed.



Working Environment

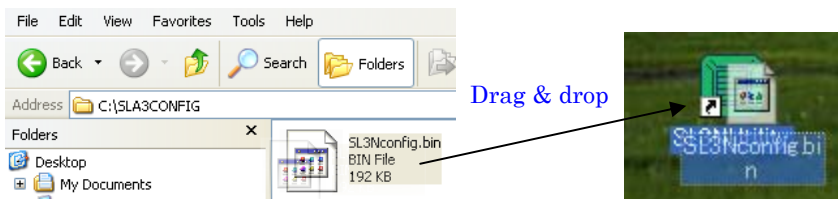
- Operating System
 - Microsoft® Windows® 2000 Professional SP3, SP4
 - Microsoft® Windows® XP Professional
 - Microsoft® Windows Vista®
 - * Microsoft, Windows and Windows Vista are U.S. registered trademarks of Microsoft Corporation.
- Hardware
 - Pentium 300 MHz or greater
 - 128 MB RAM
 - 5 MB free hard disk space
 - 1 USB (1.1 or 2.0) port
 - 800 x 600 resolution display (minimum)

Starting and Quitting the software

Starting the SL3N-E Utility

Double-click the short-cut icon displayed on Windows® desktop or select the program “SL3N-E Utility” by clicking **[Start]>[All Programs]**.

Definition file can be started up by dragging and dropping it onto the program icon on the desk top.



Quitting SL3N-E Utility

Click **[Exit]** button, or **[x]** button of a title bar.

Editing the Definition File

To Create a New Definition File

- Click [New] button on the Initial Screen shown in Fig.1.



Fig.1 Initial Screen

- Click [Yes] button on the dialog shown in Fig.2.

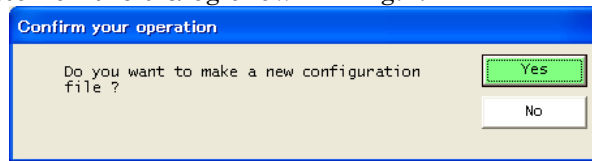


Fig.2 Confirm the operation dialog

- Select default setting values for the definition file to be created.

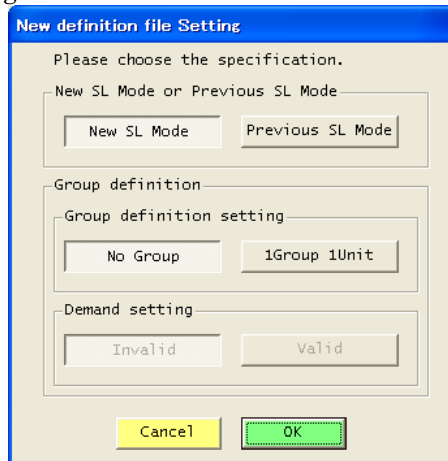


Fig.3 Default setting value selection dialog

- New SL Mode or Previous SL Mode
Select [New SL Mode] for New Super link: Super link II, or [Previous SL Mode] for Previous Super link. ([New SL Mode] is selected for the default value.)
- Default setting value for group definition
When employing the default setting for a composition of 1 unit per group, which takes the air conditioner No. as the group name, select [1Group 1Unit]. When you

don't employ the default setting for the group definition, select [No Group].

If [1Group 1Unit] is selected, the group 128 is set for New SL Mode, or the group 144 for Previous SL Mode. ([No Group] is selected for the default setting value.)

- Default setting value subject to demand

When making all air conditioners registered for a group subject to demand, select [Valid]. Select [Invalid] instead if they are not made subject to demand. ([Invalid] is selected for the default setting value.)

Note:

- “New SL Mode” ;
This mode can be selected when all indoor units, outdoor units, and center consoles connected to a network are compatible with New Super Link system (“Super Link II”).
- “Previous SL Mode” ;
Select this mode, when at least one or more indoor unit, outdoor unit, or center console connected to a network are not compatible with New Super Link system.

To Open the definition file

When you edit the definition file that you have already created, click the [Open] button. The dialog box “Browse For Folder” shown Fig.4 will appear. Choose the folder that you want to open the file that you have saved.

This operation is same when you edit the file exported from SL3N/SLA3. In this case, choose the folder in a USB memory. The USB memory will display as “REMOVABLE” Disk.

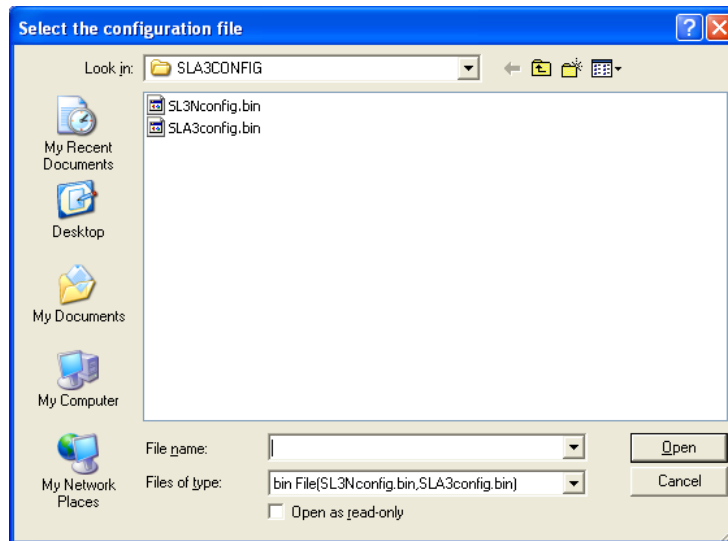


Fig.4 File selection dialog

To Edit the Group Definition

- Click on the “Group” tab, the Group Definition screen shown in Fig.5 will appear.

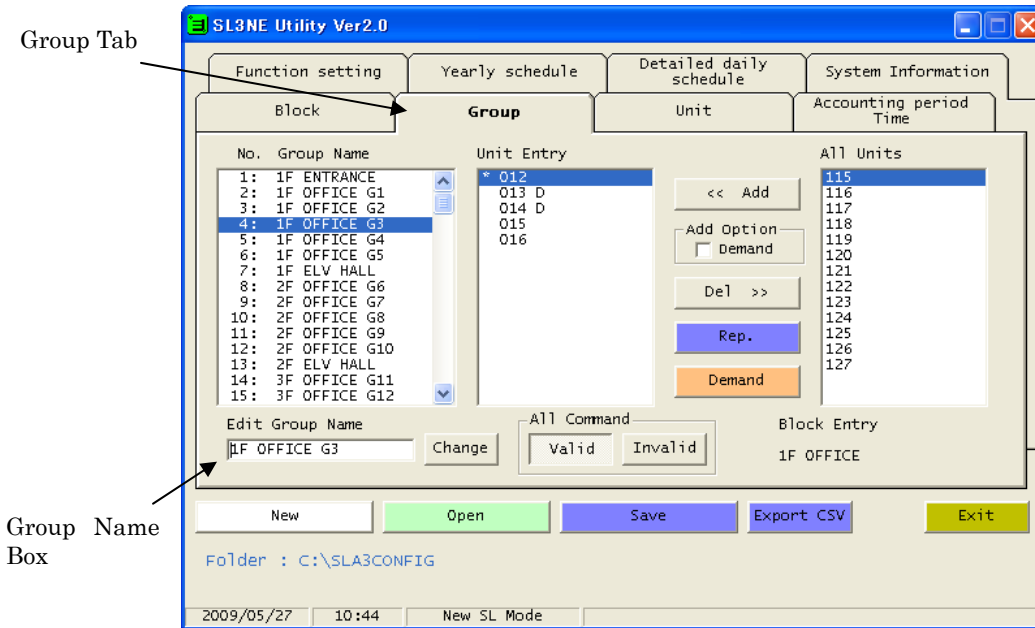


Fig.5 Group Definition screen (New SL Mode)

- Click “Edit Group Name” box, input a group name from the keyboard, and click [Change] button. The group name of a maximum of 16 characters can be inputted.
- Click a unit number in the “All Units” column, and click [<< Add] button.
- Select “Valid” or “Invalid” for “All Command”. When the “All Command” is set to “Valid”, this group is the target of [RUN ALL], [STOP ALL], and [CHANGE ALL] operations.
- Click a representative unit number in the “Unit Entry” column, and click [Rep.] button. The “*” mark will move to the selected unit number. SL3N/SLA3 displays the representative unit’s operating mode, set temperature, room temperature, fan speed, and air direction.
- Click a unit number made into the demand control target. And click [Demand] button. The “D” mark will indicate on the right side of the selected unit number. You don’t have to set the Demand setting, if SL3N/SLA3 do not use “Demand Control” by connecting the Demand Control signal.
- About “Add Option”
If it is ticked at “Demand”, “D” mark is added automatically when adding a Unit.

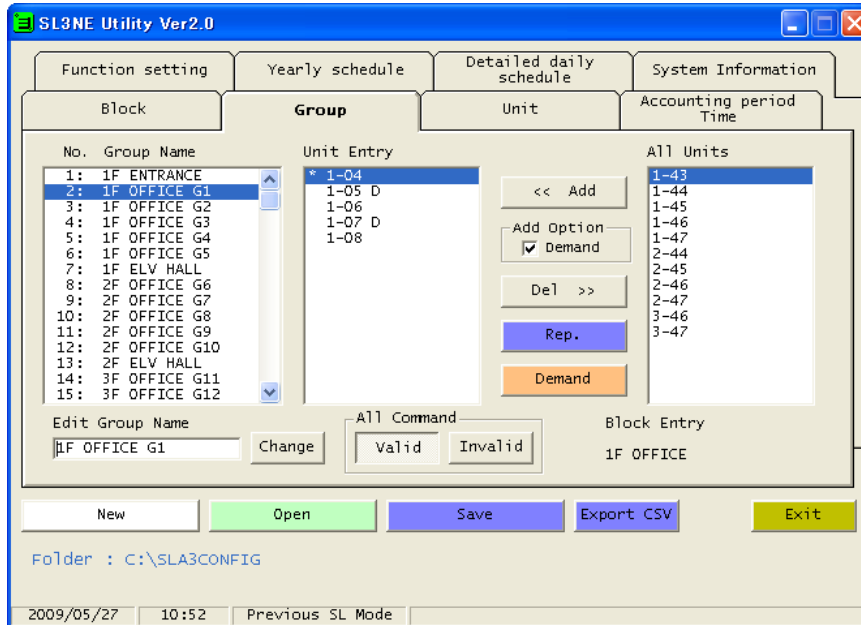


Fig.6 Group Definition screen (Previous SL Mode)

Note:

Unit No. “000”, “127”(New SL Mode), “1-00”, “3-47”(Previous SL Mode) is unique address numbers of the indoor unit. The number “1-” or “3-” means the number of the communication line, and from “00” to “47” means the number of the indoor unit.

To Edit the Block Definition

- Click on the “Block” tab, the Block Definition screen shown in Fig.7 will appear.

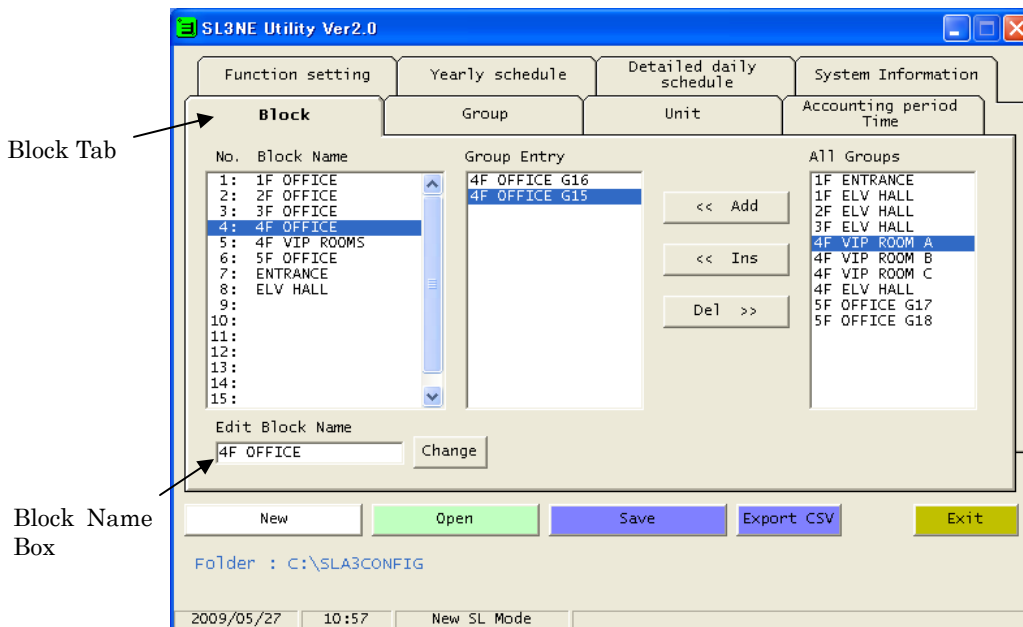


Fig.7 Block Definition screen

- Click “Edit Block Name” box, input a block name from the keyboard, and click [Change] button. The block name of a maximum of 16 characters can be inputted.
- Click the Group Name in the “All Groups” column, and click [<< Add] button.
- The block display panel on SL3N/SLA3 is displayed in the order displayed on the “Group Entry” column. If you want to change the order, use [Del>>] button and [<<Ins] button.

To Edit the Unit Definition

When the target is SC-SL3N-BE, SC-SLB3-E, SC-SLB3-ER, you need to set the Unit Definition. You don't have to set in the case of SC-SL3N-AE, SC-SLA3-E, and SC-SLA3-ER.

- Click on the "Unit" tab, the Unit Definition screen shown in Fig.8 will appear.

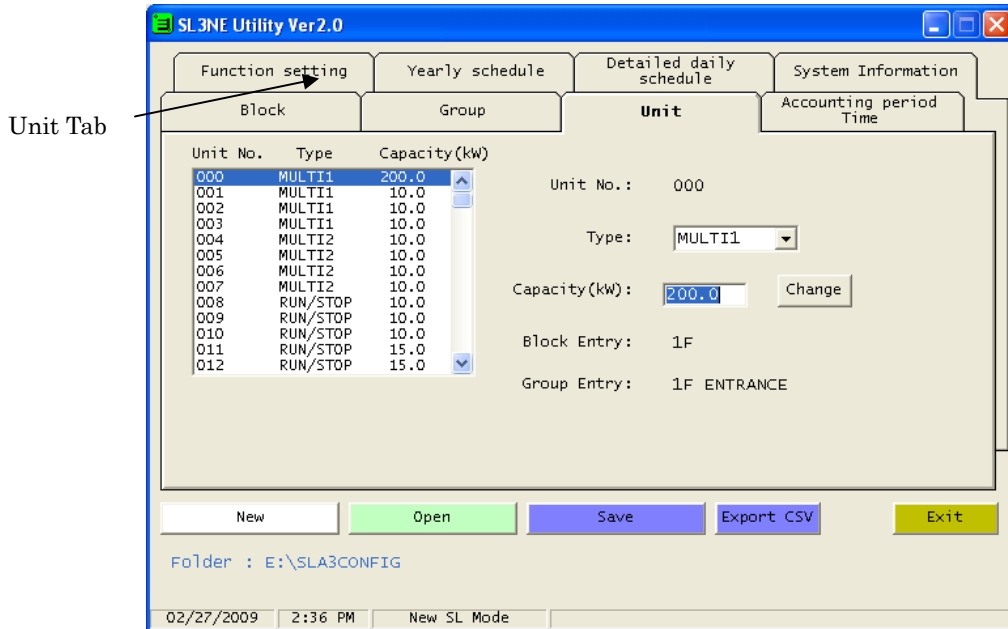


Fig.8 Unit Definition screen (New SL Mode)

- Click a unit number in the "Unit No." column, and select the "Type" in the combo box.
 MULTI1: accounting according to refrigerant flow.
 MULTI2: thermo ON/OFF accounting.
 RUN/STOP: accounting according to the indoor unit's running time.

- Input the capacity (0.0 - 200.0 kW) of an indoor unit in the "Capacity (kW)" box from the keyboard, and click [Change] button.

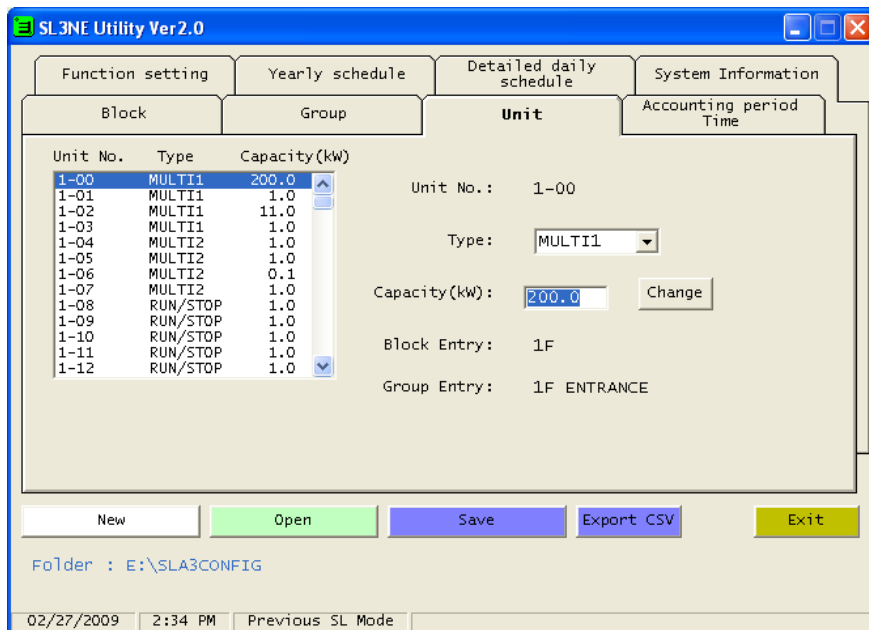


Fig.9 Unit Definition screen (Previous SL Mode)

To Edit the Accounting Period Time

When the target is SC-SL3N-BE, SC-SLB3-E, SC-SLB3-ER, you need to set the Unit Definition. You don't have to set in the case of SC-SL3N-AE, SC-SLA3-E, and SC-SLA3-ER.

- Click on the "Accounting Period Time" tab, the Accounting Period Time screen shown in Fig.10 will appear.

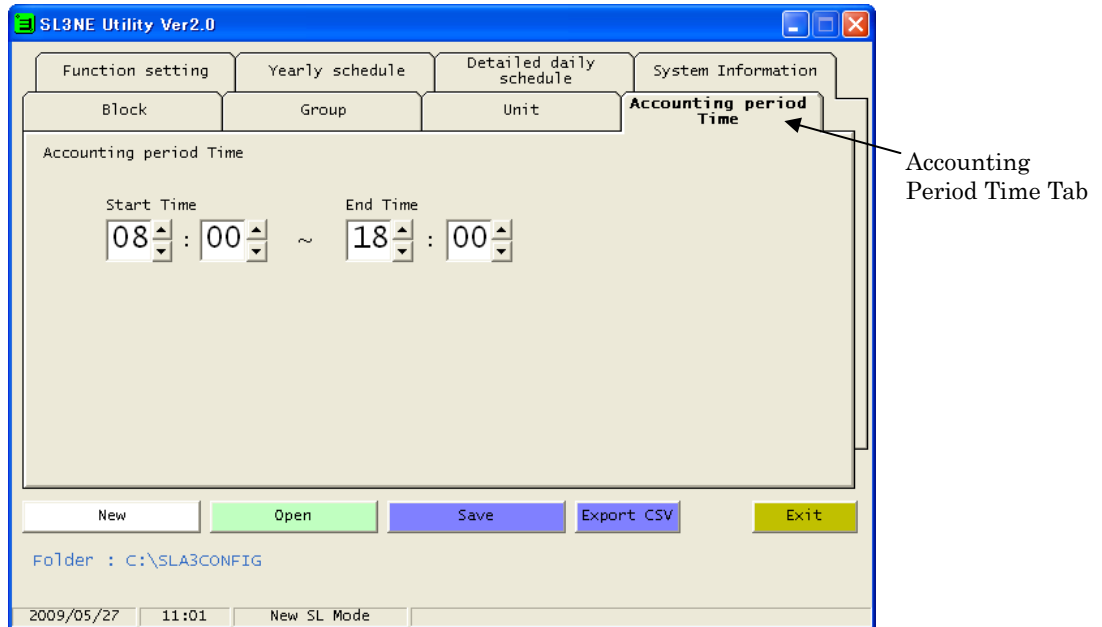


Fig.10 Accounting Period Time screen

- Click the combo box, and select the time (hour and minutes).

Note:

In order to calculate air-conditioning charge by the period, you can divide one day into two periods for accounting.

Set the basis period on this screen (for example, 8:00-18:00), it is treated except the basis period as overtime.

You can calculate an air-conditioning charge unit price by within a time (basis period) and overtime, or when you charge overtime only.

If it doesn't need to divide the period into two, set the basis period 0:00-24:00.

To Edit the Function Setting

- Click on the “Function Setting” tab, the Accounting Period Time screen shown in Fig.11 will appear.

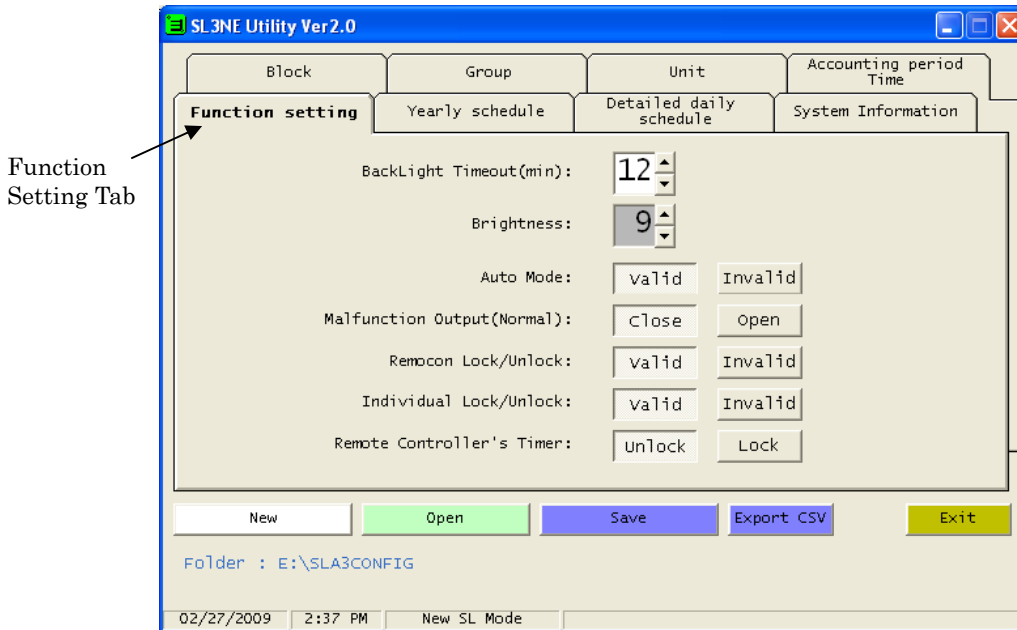


Fig.11 Function Setting screen

The following changes of operation are possible.

- Backlight Timeout;
Time from the last operation on the touch panel until the monitor backlight turns OFF can be selected.
- Brightness;
Brightness for the monitor backlight can be selected.
- Auto Mode;
If you set Auto Mode to “Invalid”, AUTO button is not shown on the screen.
This function can be applied to the air conditioner that is the cooling/heating free multi KXR, GHP-R series or PAC.
Set this item as “Invalid” when an air conditioner other than the above is connected.
- Malfunction Output (Normal);
You can choose “Closed” or “Open” status for malfunction output during normal operation of air conditioners.
Contact your service representative or installer for further information.
- Remocon Lock/Unlock;
This is effective only in SL3N. The previous SLA3 ignores this item and Lock/Unlock buttons become valid. However, when the configuration file is imported from SLA3 by [IMPORT/EXPORT]-[Export a configuration file to USB] operation, this item is displayed as “Invalid”.
One air conditioner is managed with plural center consoles, and when different setting (especially remocon Lock/Unlock) is set as the same air conditioner, the remocon does not become setting as an intention.
In such a case, set SL3Ns other than a main central controller to “Invalid”.
Set “valid” when the external inputs such as “EMERGENCY STOP” or “DEMAND” signal are connected to SL3N.

- Individual Lock/Unlock;
This is valid/invalid change of performing permission/prohibition setting of the switches of remocon, such as run/stop, mode, and temperature setting, individually.
This function can be applied to the indoor units, which are the model KXE4 or later, and to the remote controller, which is the model RC-E1 or later.
- Remote Controller's Timer Lock/Unlock;
This permits or prohibits remote controller's timer operation for all the air conditioners defined in the group.

To Edit the Detailed daily schedule settings

Set details of "Weekday", "Holiday", "Special 1" and "Special 2" for each group.

- Click [Detailed daily schedule] tab.

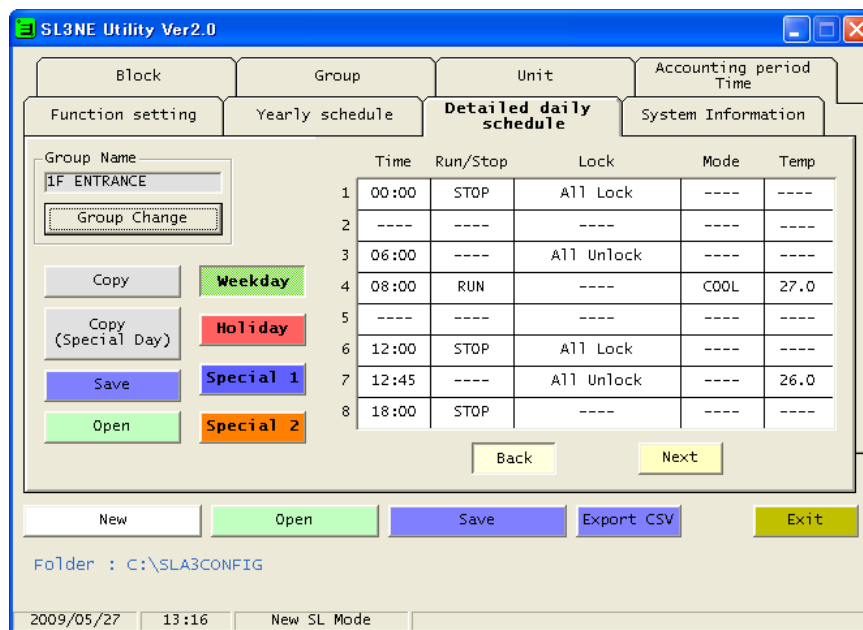
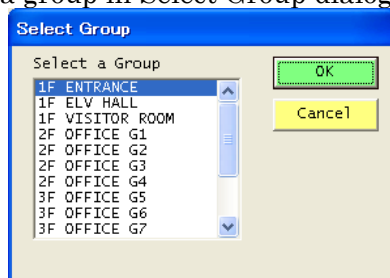


Fig.12 Detailed daily schedule setting screen

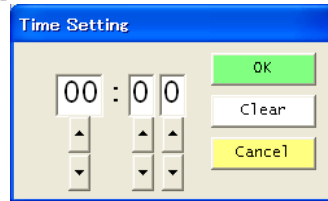
- Click [Group Change] button.
- Select a group in Select Group dialog.



- Click either button of [Weekday], [Holiday], [Special 1] or [Special 2].
- Click sections in the table for each item of "Time", "Run/Stop", "Lock", "Mode" and "Temp". As the setting input dialog is displayed, enter values. It is invalid unless the time is input such as "----".

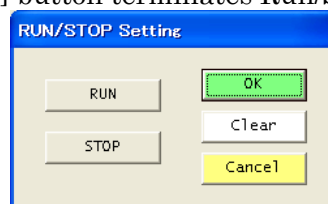
To Edit the Time Setting

Change the time with the up or down buttons, and click [OK] button.
Clicking [Clear] button deletes the setting of corresponding list.
Clicking [Cancel] button terminates Time Setting dialog.



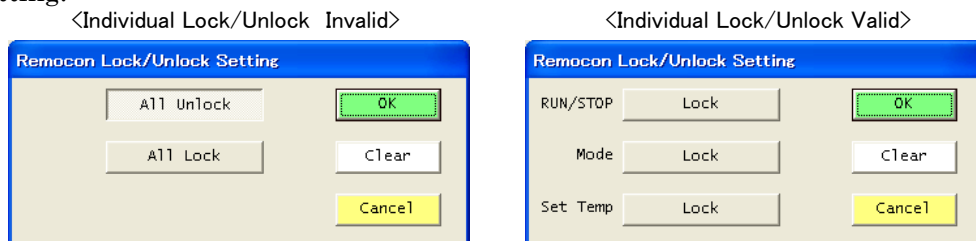
To Edit the Run/Stop Setting

Click [Run] or [Stop] button and then [OK] button.
Clicking [Clear] button deletes the setting of corresponding list.
Clicking [Cancel] button terminates Run/Stop Setting dialog.



To Edit the Remocon Lock/Unlock Setting

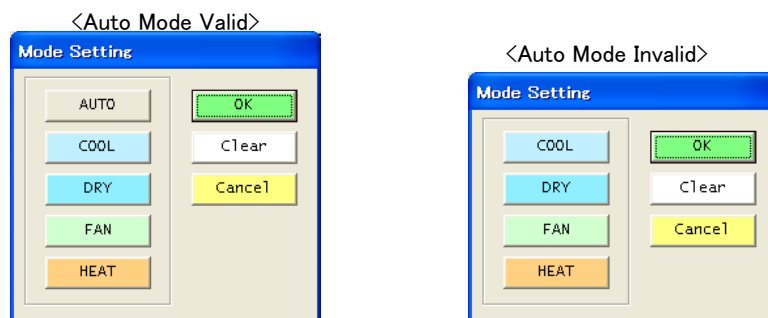
Click the button of item to be locked and then [OK] button.
Clicking [Clear] button deletes the setting of corresponding list.
Clicking [Cancel] button terminates Remocon Lock/Unlock Setting dialog.
Items to be prohibited vary depending on Individual Lock/Unlock for Function setting.



When Remocon Lock/Unlock for Function setting is set at “Invalid”, Remocon Lock/Unlock Setting is inhibited.

To Edit the Mode Setting

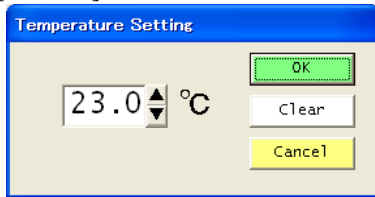
Click the button for item to set and then [OK] button.
Clicking [Clear] button deletes the setting of corresponding list.
Clicking [Cancel] button terminates Mode Setting dialog.



When auto Mode for Function setting is set at “Invalid”, you cannot select [AUTO].

To Edit the Temperature Setting

Change the temperature with the up or down buttons, and click [OK] button.
Clicking [Clear] button deletes the setting of corresponding list.
Clicking [Cancel] button terminates Temperature Setting dialog.



About temperature setting range

In the heating mode, it can be set in a range of 16°C - 30°C. The range is 18°C - 30°C for any other modes.

Note:

When creating a new definition file (SLA3config.bin) for use on a previous model SLA3, don't input Temperature Setting for the "Detailed daily schedule" settings. Unless this is heeded, it raises a problem that two times of temperature setting value is displayed. Temperature must be set at the SLA3.

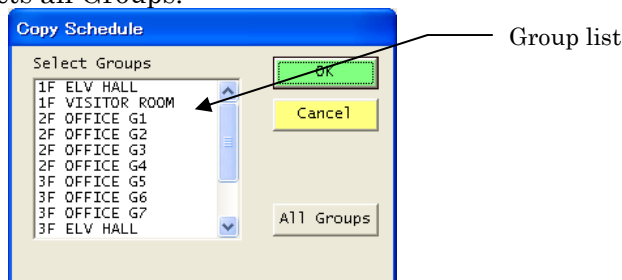
When editing a definition file having been set at the SLA3 using SL3N-E Utility, if the temperature setting value is input for the detailed daily schedule settings even on one group only, SL3N-E Utility can recognize that it is a definition file of previous model so that correct temperature setting value can be input.

Copying a schedule (Copying between groups)

This is the function to copy all schedule settings (Weekday, Holiday, Special 1 and Special 2) in a Group to another Group.

Operating method

- Click [Copy] button.
- Select the copying address Group on Copy Schedule dialog.
You can select one or more Groups from Group list. Clicking [All Groups] selects all Groups.



- Click [OK] button. The schedule setting for the group being edited currently is copied to the selected Group.
Clicking [Cancel] button terminates the group selection dialog.

Copying a schedule (Special Day)

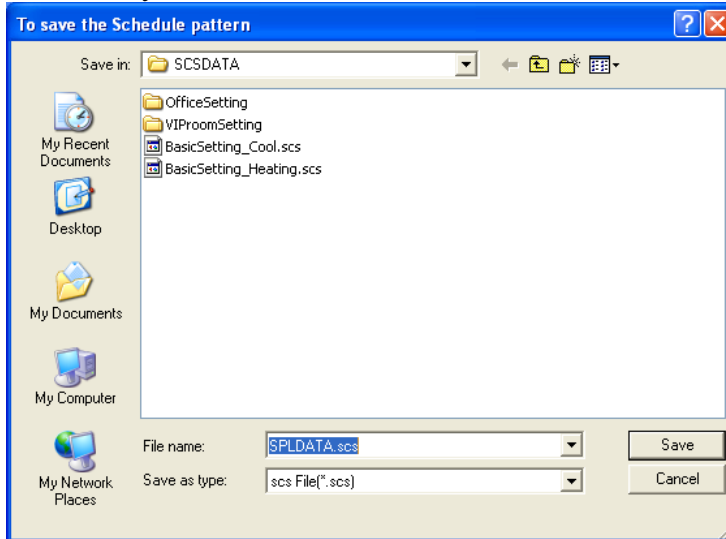
Click [Copy (Special Day)] button. The setting being edited currently is copied to all detailed daily schedules. (Example: "Weekday" setting is copied to "Holiday", "Special 1" and "Special 2".)

Saving schedule settings

Save all schedule settings (Weekday, Holiday, Special 1 and Special 2) for the group being edited currently in a file.

Operating method

- Click [Save] button.
- As the save dialog opens, select a folder.
- After selecting a folder, click [OK] button.
You can change the name of file. You should edit a name, which can be identified easily.

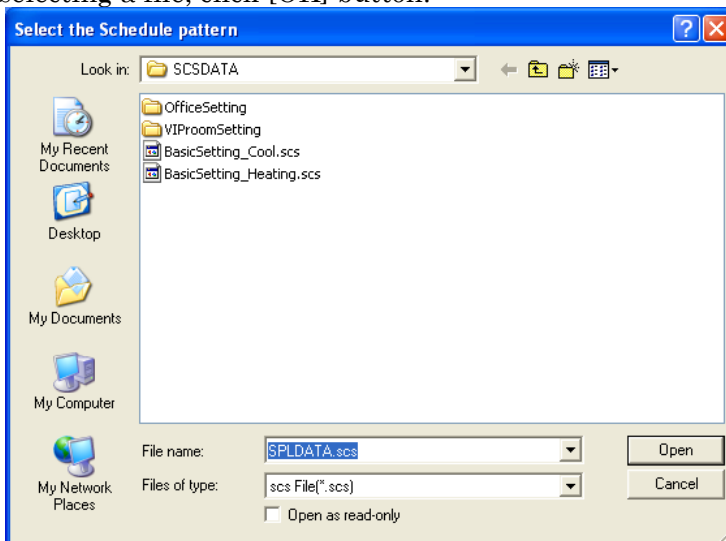


Reading schedule settings

Read schedule settings saved in the past into the Group being edited currently. All schedules (Weekday, Holiday, Special 1 and Special 2) in the Group are read.

Operating method

- Click [Open] button.
- As the schedule pattern read dialog box is opened, select a folder.
- After selecting a file, click [OK] button.



To Edit the Yealy schedule

Operation schedule for a year can be set for each Group.
Click [Yearly schedule] tab.

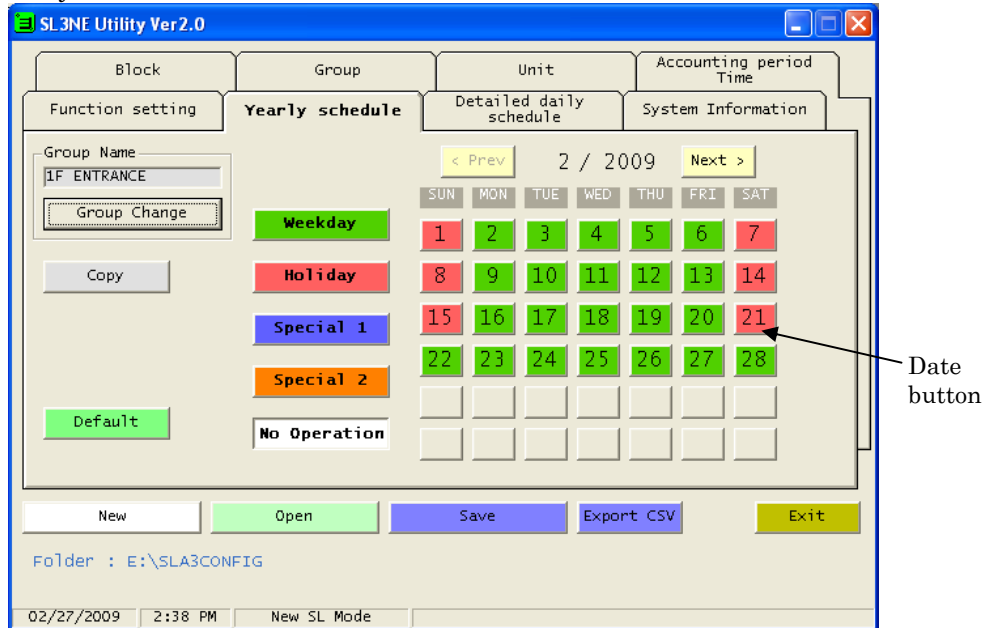
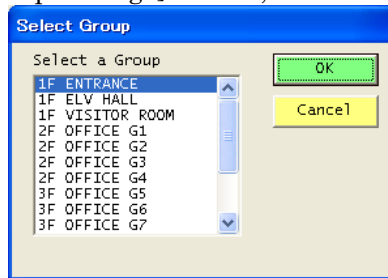


Fig.13 Yearly schedule setting screen

- Click [Group Change] button, and select a Group on Select Group dialog.



- Select the detailed daily schedule from [Weekday], [Holiday], [Special 1], [Special 2] and [No Operation], and click the button.

- Click the date button. To change the month, click [Prev] or [Next] button.

- About clicking of the right button of mouse
If you place the mouse pointer on [Date] button and click the right button of mouse, you can change to No Operation.

About “Default setting”

If you click [Default] button, Saturdays and Sundays in the month being displayed currently are set as Holidays, and any other days as Weekday.

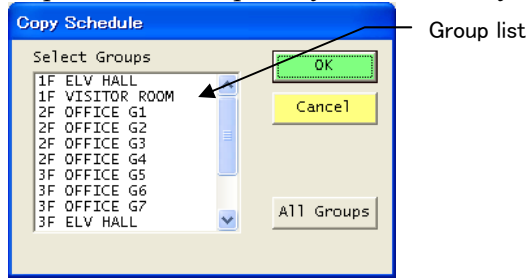
Copying Yearly schedule

This is the function to copy Yearly schedule setting for one year of the Group being edited currently to another Group.

Operating method

- Click [Copy] button.

- Select a group in the Copy Schedule dialog. More than one group can be selected from Group list. All Groups may be selected by clicking [All Groups] button.



- Click [OK] button. Content of setting for the Group being edited currently is copied to the selected Group.

To view the System Information

The “System Information” displays the software version and the outline of setting for the configuration file.

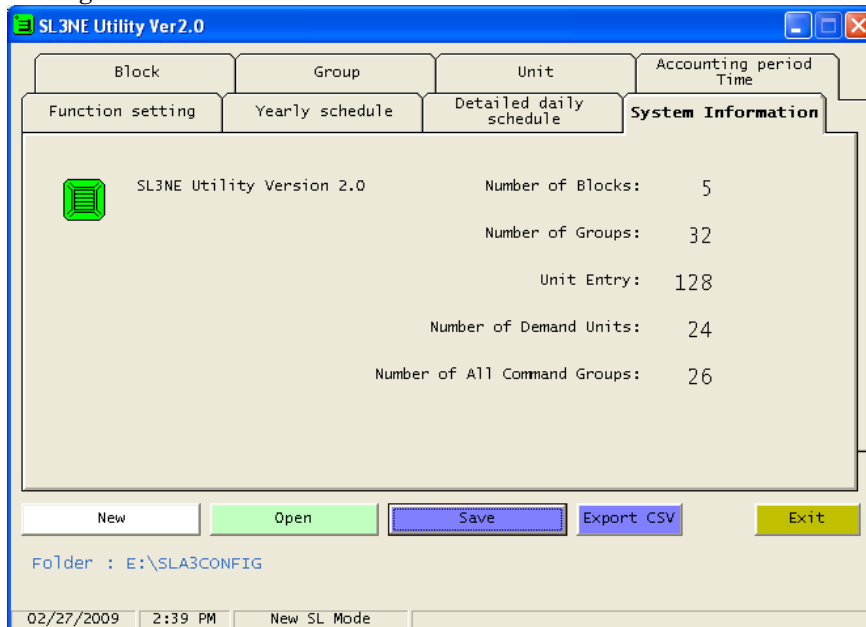


Fig.14 System Information screen

Number of Blocks

Total number of Blocks on which one or more Groups are registered

Number of Groups

Total number of Groups on which one or more Units are registered

Unit Entry

Total number of Units which are registered on a Group

Number of Demand Units

Total number of Units which are registered on the Group and are subject to the demand motion

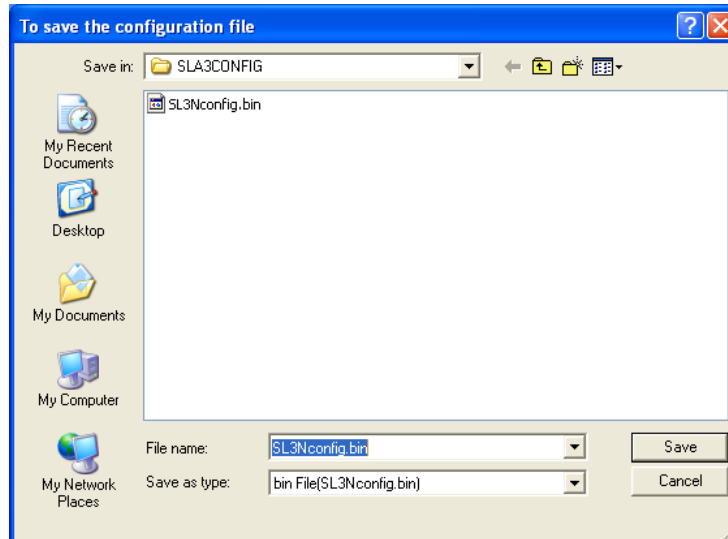
Number of All Command Groups

Total number of Groups subject to the batch operation

To Save the definition file

- Click [Save] button, and choose the folder that you want to save. If you don't change the folder, the definition file will save to the folder "SLA3CONFIG".

The name of the definition file is fixed. The file name is "SL3Nconfig.bin" (New SL Mode) or "SLA3config.bin" (Previous SL Mode). You cannot change the file name. Only select the folder.



To create the CSV file

If you click [Export CSV] button, a CSV file is created in the same directory (another directory may be selected) as that was read. Output items are Unit No., Group No., Group Name, Representative, Demand, All Command, Block No., Block Name, Type and Capacity (kW) of each air conditioner.

New SL Mode <Image of CSV file> “0” is indicated for the Group No. for un-used air conditioners.

E:\SLA3CONFIG\SL3Nconfig.bin 02/27/2009

Unit No.	Group No.	Group Name	Rep.	Demand	All Command	Block No.	Block Name	Type	Capacity(kW)
0	1	1F ENTRANCE	*		Valid	1	1F	MULTI1	200.0
1	1	1F ENTRANCE			Valid	1	1F	MULTI1	10.0
2	0				Invalid	0		MULTI1	10.0
3	0				Invalid	0		MULTI1	10.0
4	2	1F OFFICE 01	*		Valid	1	1F	MULTI2	10.0
5	2	1F OFFICE 01			Valid	1	1F	MULTI2	10.0
6	2	1F OFFICE 01			Valid	1	1F	MULTI2	10.0
.
.
124	32	5F ELV HALL	*		Valid	5	5F	MULTI2	8.0
125	32	5F ELV HALL			Valid	5	5F	MULTI2	8.0
126	32	5F ELV HALL			Valid	5	5F	MULTI2	8.0
127	32	5F ELV HALL			Valid	5	5F	MULTI2	8.0

Previous SL Mode

E:\SLA3CONFIG\SLA3config.bin 02/27/2009

Unit No.	Group No.	Group Name	Rep.	Demand	All Command	Block No.	Block Name	Type	Capacity(kW)
100	1	1F ENTRANCE	*	D	Invalid	1	1F	MULTI1	200.0
101	1	1F ENTRANCE			Invalid	1	1F	MULTI1	1.0
102	1	1F ENTRANCE			Invalid	1	1F	MULTI1	11.0
103	1	1F ENTRANCE			Invalid	1	1F	MULTI1	1.0
104	2	1F OFFICE 01	*		Valid	1	1F	MULTI2	1.0
105	2	1F OFFICE 01			Valid	1	1F	MULTI2	1.0
106	2	1F OFFICE 01			Valid	1	1F	MULTI2	0.1
.
.
344	36	5F ELV HALL	*		Valid	5	5F	MULTI2	1.0
345	36	5F ELV HALL			Valid	5	5F	MULTI2	1.0
346	36	5F ELV HALL			Valid	5	5F	MULTI2	1.0
347	36	5F ELV HALL			Valid	5	5F	MULTI2	0.1

Memo