# OWNER'S MANUAL

Instruction manual for New generation Air-conditioning network intelligent manager system

> Thank you very much for purchasing our product, Before using it, please read this manual carefully and keep it for future reference.

IMM INTRODUCTION	1
SOFTWARE INSTALLATION	2
SETTING	3
OPERATION INSTRUCTION	8
TROUBLESHOOTING	30
APPENDIX	32

# P

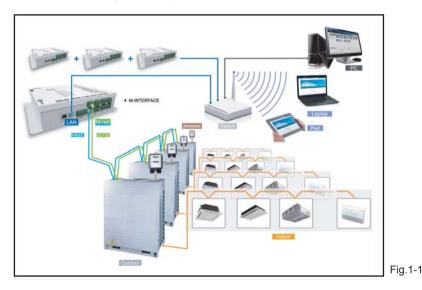
# NOTE

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of this paper, please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.
- As the product updates, this document will be changed without prior notice.

# 1. IMM INTRODUCTION

# 1.1 IMM system introduction

IMM system is the short name of Intelligent Manager. It consists of three parts: IMM software, Minterface web gateway and V4+ outdoor unit refrigerant system. The IMM system can connect 4 Minterface gateways at most, totally could join up 64 refrigerant systems. The IMM software can communicate with network and M-INTERFACE gateway, to control and manage the refrigerant system. The IMM system framework as the Fig.1-1 display.



IMM software installed in the computer, and the M-INTERFACE gateway connects to the computer through LAN port. Laptop and Pad can visit WEB page of M-INTERFACE through wireless network.

# 1.2 Models which could be inserted

- 1) Projects which do not need electric quantity division: can freely insert V4+ units.
- 2) Projects which need electric quantity division: connect the V4+ series outdoor units and indoor units, and wiring the M-net terminal communication wire from the outdoor side.
- 3) Details refer to IMM TECHNOLOGY MANUAL.

# **1.3 IMM network introduction**

IMM software includes server software, cline-side software and database software. Install the server software and the database software in the same computer and stay the same sub network with the M-INTERFACE gateway, which can be realized by configuring the IP, details refers to 3.1. The cline-side can connect to the server through the local or remote network.

#### 1.3.1 Local network connection

The cline-side can connect to the server through the local network, the local network connection as the following display:



#### 1.3.2 Remote network connection

The client-side and server also can use the remote network (VPN) connection. VPN has router establishing and computer establishing methods, and the remote network connection needs some IT knowledge and needs to assist by network administrator.

#### 1) Router establishing

VPN tunnels establish between routers, and then can visit WEB interface through VPN tunnels. VPN Server can be established by oneself and also can be rented. Its topology structure as follow display:



#### 2) computer establishing

Use VPN client-side software and VPN Server to establish VPN tunnel, then user can visit the server through VPN tunnel. VPN client-side software and VPN Server can be achieved by commercial ways. Its topology structure as follow display:



# 1.4 IMM software functions

User can operate the IMM client-side software to monitoring the air-conditioning system. The functions offered by IMM software as the following display:

enu Activation File ntrol / Des indication		et inform chedule	/	Help	7	ECS	/ Pu	bắc Dev.	/ Dev. Masa	rement /	Statistical	1 1	tote alarm	/ Log
evice monitoring					2									(26) = Selected(0)
ndoor unit(1.46)									an of the local sectors in the					E
Ungrouped(146)	10	4		-		10		-	-	-	-			
			27°C	are	2710	2710	260	26°C	we	2610	2610	we	26°C	
	4110	) 41	1101	41102	41103	41104	41105	41106	41200	41202	41203	41204	41205	
	100	8 8	8	100	100	100		100	100	-	1000	1000	100	
	4120	_	207	27°C 41208	41209	41210		21°C	3 25°C	20°C	42100	42101	42102	
	41.50		207	41205	41:30%	41210		41220	41159	41160	_		42102	
	2.1	<b>1</b> 8		1000	Contraction of the local division of the loc	1000		1000	10000	-	400	600	Constant Section	
	4210		2510	42105	42106	42107		42109	42110	42111	42112	42113	42114	
	6					160			100	12.3	100	1000	1265	
			2870		8 2°C			28.0	STC	-	-	25.0	25-0	
	4211		116	42117	42118	42119	-	42121	42122	42123	42124	42125	42126	
	100			1	423	-		123	100	1000	4.00	4.3	200	
	25	c	25.0	25.0	2510	2514	510	25"C	31.0	are	are.	2510	81°C	
	4212	43	21.28	42129	42130	42131	42132	42133	42134	42135	42136	42137	42138	
	1	3	-	-	-	1	1	-	100	100	100	100	-	
	35		arc	a c	:39°C	3510		39°C	250	2910	sec	sec	29°C	
	4213	43	21.40	421.41	42142	421.43	42144	42145	42146	42147	42148	42149	42150	
	-	3			100	6		1	100	1	1	-	400	
	- 257	-	arc.	S'C	39 C	310		Sec	3'0	3'0	a'c	310	3 S'C	
	4715		147	17143	17141	17155	17156	12148	17140	47160	47161	17308	17501	l.
	Device costs	ol Device	detailed in	femation										
	Owoff	On	63	Mode	Cool	63	Fan Low	63						
	Temp.	240	83	Swing	On	63								

Fig.1-5

Main functions as follow:

- Device monitoring Offer control and management of indoor/outdoor unit for the M-INTERFACE gateway.
- Schedule management
   Offers schedule control function of indoor unit.
- Energy saving management Offers energy saving control function oh indoor unit.
- Statistics of energy consumption Offers electric quantity division function of air-conditioning system.
- 5) Device management Offers the group division function of air-conditioning device.
- Data statistics Provides the status changing records of indoor unit, outdoor unit and M-INTERFACE gateway.
- 7) Log

Offers all the records of the client-side operations which operated by the user.

# 2. SOFTWARE INSTALLATION

# 2.1 Installation preparation

Before the IMM software installation, it needs to make sure the air-conditioning system operated normally, M-INTERFACE gate way worked normally, the communication between M-INTERFACE gateway and air-conditioning system was normal, and it needs to meet the following hardware and system requirements.

Table.2-1

	Specification	Recommendation	Remark
PC	CPU: i3 or above Internal storage: 2G or above Hard disk: 120G or above Keyboard/Mouse Network: 108ASE-T Screen resolution should over 1024*768 Screen size should over 17 inch	Recommended that IBM or DELL products	Must be desktop, and ensure the computer works normally before installing the software;
System	Microsoft Windows XP Profes- sional Service Pack 3/Windows7 Flagship edition 32-bit systems.		laptop is not allowable.
Document form	NTFS		

## 2.2 Software installation

Details refer to IMM TECHNOLOGY MANUAL.

# 3. SETTING

# 3.1 IP address setting

Default IP of M-INTERFACE gateway is 192.168.100.40, subnet cover code is 255.255.255.0. The M-INTERFACE gate and IMM server must be stayed in the same sub network, two ways of realization: amend the M-INTERFACE gate IP and configure the static state IP for server.

#### 3.1.1 Configure static IP

Generally configure single IP, if the IP address of computer cannot be amended, then configure several IP. Methods as follow (Take windows 7 system for example):

#### 1) Configure single IP

Open the property dialogue box to configure the IP address and subnet cover code, for example: IP: 192.168.100.44, subnet cover code: 255.255.255.0.

ternet Protocol Version 4 (TCP/IPv4) F	properties	;	l	?	×
General					
You can get IP settings assigned autom this capability. Otherwise, you need to for the appropriate IP settings.					
Obtain an IP address automatically	4				
Ose the following IP address:					
IP address:	192 . 16	8.10	0.44		
Subnet mask:	255.25	5.25	5.0		
Default gateway:					
Obtain DNS server address autom	atically				
Ouse the following DNS server addr	esses:				
Preferred DNS server:					
Alternate DNS server:					
Validate settings upon exit			Adva	nced	
		ОК		Cancel	Fig

After configuration, click the "OK" button.

#### 2) Configure several IP

Before configure several IP, it need to configure a statistic IP address. Open the property dialogue box, select the "Advanced", and display the TCP/IP setting dialogue box as follow:

dvanced TCP/IP Settings	23 S
IP Settings DNS WINS	
IP addresses	
TCP/IP Address	? ×
IP address:	192 . 168 . 100 . 101
Subnet mask:	255 . 255 . 255 . 0
	Add Cancel
Gateway	metric
Ad	d Edit Remove
Interface metric:	
	OK Cancel Fig.3-

Click the "Add" button in IP address bar, add a IP address in the same net area with "192.168.100.40", e.g.:IP: 192.168.100.101, subnet cover code: 255.255.255.0, and then click the "Add" button.

#### 3.1.2 Amend gateway IP

Before amending the IP address of M-INTERFACE gateway, it needs a computer to visit the WEB page of M-INTERFACE, then enter the IP address amending page through the computer. The page display as follow:

Attp://192.168.100.4	1/main.html	오 -	×
والكلك			
Control / Map /	Setting / DevInfo	/ Upgrade / CommLog	/ Help / Exit
Setting			
🛤 Basic	Ipv4 address	192.168.100.41	
🛚 Time	Ipv4 mask	255, 255, 255, 0	
🛚 User	*	192.168.100.1	
🛤 Log	Ipv4 gateway		
IP E	Ipv4 DNS server	10. 16. 15. 100	
System map			
▶ FTP			
Other		Ok	
Controller state			

After typing, click "OK" to save. Do not conflict with other IP in the network, detailed IP address assignment needs to consult the network administrator.

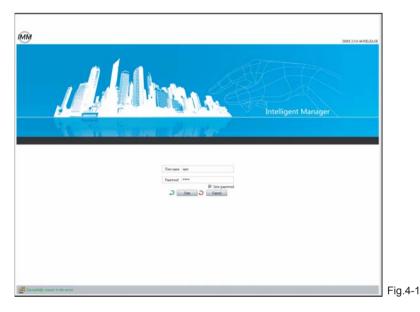
# 3.2 Software operation setting

Before software operation, set the server software, client-side software and database software. Detailed setting steps refer to IMM TECHNOLOGY MANUAL. After setting, insert the dongle (please keep the dongle properly), and start the server software and then start the client-side software.

# 4. OPERATION INSTRUCTION

#### 4.1 User login

Operate the IMM client-side software, popup the login interface as the follow display:



After "Connect to the server successfully" was displayed at the lower left of the login interface, then can carry out the login operations.

Steps of carrying out the login operations as follow:

- 1) Type in user's password, the default is user;
- 2) Choose whether save the password;
- 3) Click [OK] to carry out login;
- 4) Click [Cancel]to exit this page; When clicked the "OK" button, after login successfully, then enter into the system home page. If login failed, please refer to Appendix 5.1.

#### 4.2 User log out

Click the icon x on upper-right corner, exit the system, and the interface display as follow:

Activation File	ruject information Help Schedule / Eco / ECS	/ Public Dev / Dev Manage	ment / Statistical / Note she	MM 20044 RELEAS
	Lists statistics		[	Q Searching
t time 00 time 02 type 23	Number User Operation type	Time	Operation content	Devic
	Cogoing out	he system, përase wat		
Statistics O Reset	1			

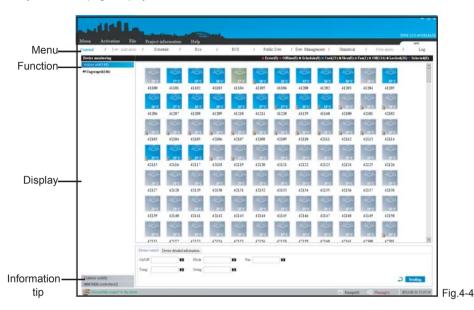
### 4.3 System initialization

After the user login successfully, then will show out the system initialization dialogue frame, and carry out the initialization of the whole system, update the system information. The itialization dialogue frame display as follow:

Ø	Syst	em initializing, plea	ase wait(6 second	s)	
	0	Start initializing t	he system		
		Synchronizing sys	stem files data		
		Synchronizing de	vice running data	1	
		Execute synchron	ization refresh		
		Finished all the in	itialization operat	ions	
			Re-initializing	Exit the system	Fig.

Click the "Re-initialization" button, then it will re-initialize from the current time. Click the "Exit the system" button, then will stop the initialization work and exist the system.

# 4.4 Main interface introduction



The system home page display as the follow:

Menu: system functions menu.

Functions: functions in menu, include device monitoring, schedule management, energy saving management, statistics of energy consumption, public device, data statistics and log etc. functions.

Display: display detailed information of each function.

Information tip: display the prompt message and alarm information.

The upper-right corner of the interface will display the software version and user's login name.

## 4.5 Devices monitoring

This part is displayed as 3 classes of air-conditioning indoor unit, outdoor unit and M-INTERFACE gateway. Each class will be displayed as primary group and secondary group.

E.g.: under the indoor unit it will display the primary group: Buildings; and under the primary group it will display secondary group: first floor, second floor, third floor etc. Detailed group setting please refers to 4.10.

#### 4.5.1 M-INTERFACE gateway monitoring

Choose the M-INTERFACE gateway selection; the interface will display all the M-INTERFACE gateway devices in the IMM system.

Activation File	Project in	dormation	Help	Danie.								IMMS	0.0.441ULE
/ Dev indication	/ Sche	dule /	Eco	/	ECS	1	Public Dev	/ Dev. Management /	Statistical	1	Note alarm	1	Log
nationlag nationlag										- 1	Offline(0) = Lee	:krd(0) 🗢	Selected(0)
unit(11)	1	-	11	1									
(8) controller(4)	lio()	inci.	1001	les!									
	40	-41	42	48									
	Device costrol												
	Dev. No. 1923	63 100 48	Linit	Uslocked	10	Inspec	7	ы					
												2	ending
presentally consert to the serve									Frompt(0)		Warning 122)		6-31 15 23 40

There are 3 display statuses of M-INTERFACE gateway: lost connection, locked and selected. When selected or right mouse click a M-INTERFACE gateway device, the bottom of interface would display its IP address and it whether has limit mode, and the user can control the M-INTERFACE gateway device through the method of setting the limit mode parameters, emergency stop parameters and then click the "send" button. User can amend the devic name: double-click the device name, then amend it, and press enter key to save. E.g.: select the M-INTERFACE gateway devices named 40 and 41 (selecting method refers to 4.5.4), and choose the "limit mode" parameters, and then click the "send" button, the page display as follow:

	Re-		and.						13417	- =	
Menu Activation Fils Control / Des industries		Help	/ ECI	: /	Public Der	/ Dev. Management /	Statistical	/ Notes		uer Log	
Device manifaring	scoodue 7	Eco	7 DC:		Public Dev	7 Dev. Management 7	Statistical		) = Lecked(0)	1	
Indeer unit(330) Oxfdeer unit(11) IMM WEB cothroller(4)	40	42	43								
	Device control Dev. No. [192.168.100.41	List	Loched	Ewop	ncy 👝	63					
									J	Sending	
Successfully cannet to the serv	-						Prosp(0)	A Wanne	(132) 2013	2-08-31 15:34:42	Fig.4

After successfully set "Limit mode", the device icon will add an icon with locker.

#### Parameters specifications:

Table.4-1

Parameters	Specifications
Limit mode	Locked: can not operate in the WEB page of M-INTERFACE Un-locked: Remove the locking of M-INTERFACE gateway device.
Emergency stop	: Not carry out the emergency stop function. Stop: Carry out the emergency stop function, stop all the devices of the M-INTERFACE gateway.

#### Icon specifications:

Table.4-2

Teon specificat			
Icon	Specifications	lcon	Specifications
	M-INTERFACE device work normal		M-INTERFACE device locked
	M-INTERFACE device lost connection		M-INTERFACE device selected

Status selection:

The gateway device has 3 statuses: locked ( **CLocked** ), lost connection ( **Click** the lost connection ( **Click** the corresponding status icon to check the relative device. Click the lost connection icon, and it will display all the devices which lost connection. Right click the "selected" icon, and it will popup the selection frame of "All select/cancel all select", choose "All select" then it will select all the icons in the interface, and click "cancel all select" then it will cancel selecting all the icons.

#### 4.5.2 Outdoor unit monitoring

Select the outdoor unit class, the left side of interface will display the group information under the indoor unit, and the right will display the corresponding outdoor device.

		it in the		Stade.									IMME	0.0.44 FELRA
enu Artivatian Fib ntrol / Dev mácatio		nformation	Help	/	ECS	/ Public	Dev /	Dev. Mesig	zement /	Statistical	1	Note slarm	1	Log
Device monitoring			1000							er(0) = Officer(	i) = Ceel		00(4) 0	
Indoor unit(330)	-			-		-	-	-	-					
Outdoor untit 1) = huildings(9)	I	II	Ð	Ð	Ð	H	<b>H</b>	and a second						
1 floor(4)	41800	41801	41600	41500	42504	42700	42101	42702	42703					
2 floor(5)	41500	41801	11000	41:00	42504	42.00	42:01	42.02	42.05					
u Ungrouped(2)														
	Devise detailed it	fination												
		01	Auditor.											
	OwOff Indoors	oer 63	Anition Malfunction	25°C	Anneter	-								

The outdoor unit display status: error, lost connection, cooling, heating and selected. Select or right mouse click a outdoor unit, then check the on and off status, ambient temperature, ammeter readings etc. detailed information of this device in the "Device details information".

Icon specifications:

Table.4-3

Icon	Specifications	lcon	Specifications	lcon	Specifications
*	Outdoor unit lost connection (White)	0777 21	Outdoor unit is OFF,outdoor ambient temp. is 21°C. (Gray)	07724 24	Outdoor unit operates cooling, outdoor ambient temp. is 24°C.(Blue)
	Outdoor unit error (Red)	8777 C	Outdoor unit operates heating, outdoor ambient temp. is 24°C.(Orange)	0775 25	Outdoor unit is selected, outdoor ambient temp. is 25°C.

Status selection:

The outdoor unit display status: error ( **Error**), lost connection(**Confilme**), cooling(**Cool**), heating ( **Heated**), off unit(**Conf**) and selected (**Costected**). Click the error, lost connection, cooling, heating and selected icons by the mouse, then the interface will display all the corresponding status. E.g.: click the cooling icon, then it will display the devices under cooling status in the selected group on the page, display as follow:

				Stale							10050015	0.0448.022.03
		nformation	Help	e namera							-	NOHE .
atrol / Dev. mdicati	ion / Schr	edule /	Eco	1	ECS	Public Dev.	/ Dev Management /	Statistical	1	Note alarm	1	Log
vice monitoring								rrea(0) = Offline(5	0) <b>C</b> e	al(5) = Heat(0) =	06(4) =	Selected(0)
door unit(330)	-	-	-	-	-							
(bloor listi(11) hulldings(9)	Ĩ	田	<b>H</b>	頭	E							
floor(4)	HC	me	MC	me								
floor(2)	41200	41801	41600	41500	42504							
Ungrouped(2)												
	Device detailed a											
	oworr	or	Askest	25°C								
			Malfuetten	25°C	Anowier	2012-00-31 15-46						

## 4.5.3 Indoor unit monitoring

Select the indoor unit class, the left side of interface will display the group information under the indoor unit, and the right will display all the indoor units in the IMM system, select the "device control" to carry out the control operation for one or more sets indoor units; select the "device details information" to check the operating detail information of a device.

1) Check the operating status of indoor unit

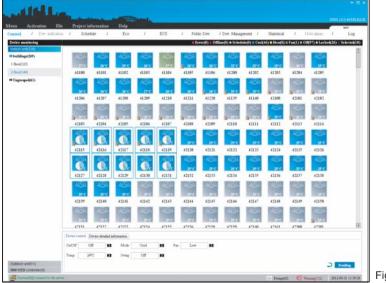
Choose the "device detail information", select a indoor unit, then the bottom of the interface will display the operating detail information of this device. Display as follow:

ns Activation 70	le Preject i	efermation	Help	Bank									MODIFICATION CONTRACT	
eanal / Deviation	iii / Schr	etile /	Eco	1	ECS.	/ Public	Der /	Dev Manag	eniest /	Datatical	- X - 2	lite shees /	Log	
Device maniforing						4 Em	n(0) = 045	ne(17) # Sched	ule(i) = Cank(	(6) <b>-</b> Here(2)	= Fun(1) = Od	1(97) # Lacked(2)	) © Selected(1)	
Indext and (13d)	interest	-	-	-	-	-	-	-	-	-	and other	-	(*)	
<ul> <li>buildisge(209)</li> <li>1 (bee(125))</li> </ul>		4004	10	4005	1	-01	4000	-	1001	4003	100	4000		
2 fbox(144)	41100	41391	41102	41103	41104	41105	41106	41200	41292	41201	41204	41205		
* Ungrouped(\$1)	41100	41101	0102	41105	41104	41102	1100	41.00	41.07	and the second	-	11.00		
	1000	4000	-00	400	100	100	-	-C35	-		0	10000		
	41206	41201	41204	41,299	41210	41211	41229	411.79	41160	42100	42101	42102		
	The second			I CAR	1253	The second	ICAN .	I STATE	110		1201	TRANK I		
	a second		E Int	1000		- Contraction	10055	10000	1000		1000	-		
	42103	42104	42105	42106	42107	42108	42109	42110	42111	42112	42113	42114		
	Test.		I CONT	TRANK .	TRANS.	The second	1005	Tress.	TRES.	I CONT	1000	STREES.		
						2810			are			-		
	42115	42116	42117	42115	42119	42120	42121	42122	42123	42124	42125	42126		
	and the second	1005	1000	1000	THE OWNER	1005	1235	10051	1000	1005	1000	In case		
			Are	200	Bre	are.	80	300	Brc	arc.	3**	are		
	42827	42128	42129	42130	42133	42132	42133	42134	42135	42156	42137	42138		
	TRANK	100	1000	143	123	1257	100	123	123	251	125	1251		
	-	2010	39-0		B.C.	1000	100	The set	me	me		39-12		
	423.79	42140	42141	42142	42147	423.44	42145	42146	421.67	42148	42149	42150		
	12-13	125	165	43	161	101	20	100	Real Property	161	25	1229		
			-	-	B.C.		100	-	-	10.0	-			
	1910	41107	11141	1914	17144	17156	17148	4*140	4*140	4*267	47100	47301	۲	
	Device enabled	Dentre lahalard I	a limatica											
	Outor	Os.	Frank	Cool	Jun .	Hal	Linit	-						
	Setag	23°C	Aultist	2640	Im	-								
Outdoor unit(11)	Dev Henr	41111	Dev.Ma	192 148 100 46-0	Collected	2012-08-31 17:51								

Displayed detail information: on and off status, operating mode, device name and device number etc.

2) Control the operating status of indoor unit

Choose the "Device control", select one or more sets indoor units (selecting method refers to 4.5.4), in the bottom of the interface configure parameters: on and off setting, mode setting, operating fan speed, temperature setting and swinging setting, and click "send" button after setting, display as follow:



The interface will display the icons which wait for being sent, after the order execution, the icons will disappear, and the interface will be refresh, then can view the operating status of the control order had been executed. If control failed, the "Prompt message" in the interface bottom will display the control failed information.

#### Icon specification

Table.4-4

Icon	Specification	lcon	Specification	Icon	Specification
	Indoor unit error (Red)	25°C	Indoor unit operates heating, indoor ambient temp. is 25°C.(Orange)	25°C	Indoor unit is locked, indoor ambient temp. is 25°C.
~~	Indoor unit lost connection(White)	25°C	Indoor unit operates fan, indoor ambient temp. is 25°C. (Green)	25°C	Indoor unit is selected, indoor ambient temp. is 25°C.
25°C	Indoor unit operates cooling, indoor ambient temp. is 25°C.(Blue)	25°C	Indoor unit is OFF, indoor ambient temp. is 25°C.(Gray)		The control order is carrying out, please wait

Status selection:

The indoor unit display status: error ( From ), lost connection ( Offine), schedule(Schedule), cooling ( Cool), heating (Heated), fan ( Fan ), off unit ( Off ), locked( Cocked) and selected (Selected). Click the error, lost connection, schedule, cooling, heating, fan, off unit, locked and selected icons by the mouse, then the interface will display all the corresponding status. Right click the "selected" icon, and it will popup the selection frame of "All select/cancel all select", choose "All select" then it will select all the icons in the interface, and click "cancel all select" then it will cancel selecting all the icons. Right-click the "locked" icon, then it will display the locked lists, and click the corresponding list then will display the relative devices.

#### 4.5.4 Shortcut keys operation

Shortcut keys operations of mouse:

The system offers shortcut keys operations of mouse, which convenient for the user to select/cancel one or more sets devices quickly.

- Select single icon Left-click the icon, if the icon was framed then means it was selected.
- 2) Select several icons

There are two ways for selecting several icons:

- Select several icons as the way of selecting single icon.
- Left-click outside the frame in the interface, drag a dotted line frame to select the corresponding -icons.
- Cancel single selected icon Left-click on the selected icon, then cancel selecting the icon.
- 4) Cancel several selected icons There are two ways for canceling several selected icons:
  - Cancel several selected icons as the way of canceling single selected icon.
  - Double-click the left/middle/right key of the mouse in the blank place of the page, to cancel several selected icons.

Function shortcut keys operations

Right-click the Selected icon, then it will popup the selection frame of "All select/cancel all select", choose "All select" and "Cancel all selected" to select and cancel quickly. The operation steps as follow:

1) Select the "indoor unit" or "outdoor unit" class (or primary group or secondary group).

2) Click a status display icon (cooling, heating, error, off unit etc.), such as click the cooling status icon, the interface will display the devices of corresponding group under cooling status.

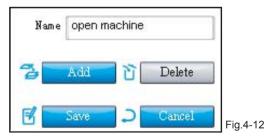
3) Click the "select all" option, then all the cooling device in the page will be selected, and if click the "cancel the selected all", all the selected icons will be canceled selecting.

#### 4.6 User management

1) Schedule management offers the schedule operations for air-conditioning indoor unit. Display as follow:

	ile Projet	t informatio		Dank						_	_		-	wer	
trol / Dev. indicat	ion / S	chedule	/ Eco	1	ECS	/ Public Dev.	/ Dev. Masageme	ent / S	tatistical	1	Note also	24	1	Log	
iedale management															
						0.000	electing								1.5
						- Drevisue	merala.								
	Time	On Off	Mode	Ean	Temp.	Swing	E Mon. E	Ture IT Wed.	C Der D	Fri 🗆	Set E Se				
	Setting	Setting	Setting	Setting	Setting	Setting			_		_	·		_	
						Ū.	۲	2912years		•		Avig	ĥ.		Ð
							Jan.	Feb.	Mat.	5	MT	w	T	1 8	
						U	100					1	2	3 4	
							April	May	June	5	6 7	0	9	10 11	
A4						6	Mr	Ann	Sec.	12	12 14	- 15	.10	17 18	
A4 [						6	July	Aug.	Sep.	12 19 26	12 14 20 25 27 28	22 29	20 30	17 11 24 25 31	

- 2) Schedule management operation steps as follow:
  - Add the name



Click the "Add" button, type in schedule name.

#### Add device

Click the "Device selecting" button, then it will popup the add device frame as the following display:

Device Selection							
Selected device(0)							
Non-selected device(330)							
🖬 buildings(269)	25°C	25°C	25°C	25°C	25°C	25°C	
1 floor(125)	42121	42122	42123	42124	42125	42126	
2 floor(144)							
💵 Ungrouped(61)	25° C						
	42127	42128	42129	42130	42131	42132	
	25° C	25°C	25° C	25° C	25° C	25° C	
	42133	42134	42135	42136	42137	42138	
	25° C	25° C	25°C	25° C	25° C	25° C	
	42139	42140	42141	42142	42143	42144	
					Add	Sure	Fig.4

Click the "Non-selected device" option, select the device and click the "add" button. Click the "Selected device" option, and then it shows up the selected devices. Choose the relative devices, and click "Move" to move the devices into "Non-selected device". After selection, click "OK" and then close the selection frame. The page will display the selected devices.

		mation	Help	Card and									-	UKI .	
/ Dev indication	/ Schedul	1	Eco	7	ECS /	Public D	iev. / D	ev. Manageme	nt / S	tatistical	7 N	ite alarm	1	Lo	g
management															
	-	-	-	-	-	-	100	- 10000	- 12033	1203	- 5265			1255	
	200	1000		1000			1.111	100	300	al Con					
	42121	42122	42123	42124	42125	42126	42127	42128	42129	42130	42131	4213		42133	
	1000	-	-	LISS	-	1000	-	-	-	-	-	1			
	25.0	210	29'C	21.0	2910	250	2510	29.0	arc	310	2110				
	42134	42135	42136	42137	42138	42139	42140	42141	42142	42143	42144				
										41145					
						De	vice selecting								
	Tame On C		lode	Tan	Terrigs	Swing			Tues. 🗆 Wed			E im.			
	Time On ( Setting Setti			Fan Setting	Temp. Setting						Pn 🗖 Sa	17 Sun. Ari	9-		۲
						Swing		Mos. 🗆	Tues. 🖂 Wed	C Then C	Pn 🗖 Sa		6.		
						Swing		□ Mos. □ ④	Tues [] Wed 2012/rears	E Then C	Pn 🗖 Sa		0- 1 2 0	<b>1</b> 3 10	-
an machine						Swing		Mos. 🗆	Tues. [] Wed 2012proarts Feds.	E Thur C	Pn 🗖 Sa		9- 2 9 16 23	10 17	4

#### Control parameters setting

	Swing Setting	Temp. Setting	Fan Setting	Mode Setting	On/Off Setting	Time Setting
ũ						
	Off	18°C	High	Cool	On	08:00
Ũ						
	On	19°C	Medium	Cool	On	14:00
Ú						
ũ						

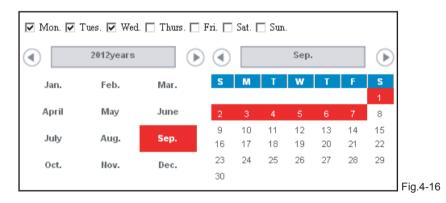
Set the time, on and off status, mode, fan speed, temperature, swinging parameters. Click the cancel icon to cancel the setting.

#### Time selecting

There are two ways of adding time: Choose date or week.

Date: Click the date under corresponding month, select the month and date which displayed in red.

Week: check the relative week, then this day of each week will be listed in the schedule. Such as selected Monday, then every Monday will carry out this schedule.



#### Save

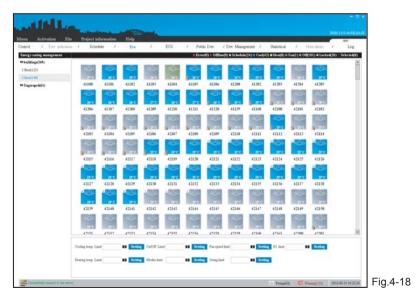
After setting, click the save button, and display as the following:

I Dev indication		ect inform Schedule	ation	Help		ecs /	Public I	- 10	ev. Managemi	- / 5	tatistical	2 Mar	alarm /	SHE .	
ale management	1	Schedule		Eco	<u></u>		Puose s	vev, i p	ev. menagans	m / 2	catificas	1 1100	aarin 7		og
n markine															
			-			n Con								20	
		25°C	2FC	35°C	25°C	25°C	2FC	25°C	25°C	25°C	3°C	Src.	25°C	25'	
		42121	42122	42123	42124	42125	42126	42127	42128	42129	42130	42131	42132	4213	5
	1				-		-			-	-				
		25°C 42134	42135	42136	25°C 42137	25°C 42138	42139	42140	25°C 42141	42142	42143	42144			
			444.00	411.00		42170	444.57	1110	12111		12115				
							De	vice selecting							
	2224		T 02	an T	22 T	20100	1.000		R Mon R	Ture. 🗗 Wed	E Des E	R. D.S. I	T See		
	Tame Setting	On Off Setting	9 Se	ide ting	Fan Setting	Temp. Setting	Swing Setting		(1)	2012/1015	1		Sep.	_	0
	0120	Ón		nd .	Hun	17%	On .						1		۲
					Make				Jan.	Feb.	Mar.	5 1			
	13:30	.On		ed :	Hedun	1850	Off		April	May.	Anie Sep.	2 3	1 5	0 7	0 15
open machine									July	Aug.					

The upper left corner of the page will display the added schedule name. And the right displayed the added device. If it's the first time setting schedule of the device, then the icon will add the schedule icon. Use the "Data statistics" to check the execution status of the schedule.

# 4.7 Energy saving management

Energy saving management offers the energy saving control operations for air-conditioning indoor unit. Display as follow:



The left side will display the indoor unit group information, and select one or more sets indoor units and choose the energy saving option, then click the "Set" button. After setting, the air conditioner icon will display the locked icon. If it needs to remove the limit, then choose the "Remove" option, and click the "Set" button for removing the limit, then the locked icon will disappear. If it failed the control, check the failed information in the "Prompt message". Click the right key of the mouse on an indoor unit then the bottom of the interface will display the locking detail information of this device.

Options specification:	Table.4-5
Selection	Specifications
Cooling temp. limit	Set the lowest limit of cooling temp., and limit the remote controller control
Heating temp. limit	Set the lowest limit of heating temp., and limit the remote controller control
On and off unit limit	Limit the indoor unit on and off operations of the remote controller
Mode limit	Limit the unit cooling, heating mode operations
Fan speed display	Limit the fan speed control by the remote controller
Swinging limit	Limit the swinging control by the remote controller
Remote controller limit	Limit the air conditioner operations by the remote controller

## 4.8 Statistics of energy consumption

This function calculates the results of the device's electric quantity division in a period. This function needs to be activated for use. Before calculating, it needs to set the "Public device", display as follow:

وبالكلكين				hand.									19494.1	*	
denu Activation File	Project inform	ation	Help										_	WIT	
Control / Dev indication /	Schedule	1	Eco	1	ECS	1	Public Dev.	/ Dev. Manage	ment /	Statistical	1	Note alarm	1	Log	
Energy consumption statistics  Activation	Activate tip														
Machine code															
19196831															
Activation code															
				L	Please	note:	this function c	an be used to a	tivate						
J Arthrades J Reset															
Successfully connect to the server										E Prompt(0)	T A	Wenning1333	2012-0	8-31 16:23:04	Fig.4-

If the user needs this function please consult the dealer, and get the activation code to activate this function. The activated page as following display:

enn Activation File entrol / Dev indication	Project information Help / Schebule / Eco	/ ECS	/ Public Dev.	/ Dev. Management /	Statistical	/ Note alarm	a / Log	
Dergy consumption statictics	Lists statistics				-	1	<b>Q</b> Searching	
Start time	Contraction and address of tractional and						Erport	
nd time	Number   Device name	Device ID Run	ning time (hh:mm)   O	N times (times)   Runing	g electric quant	ity (KWH)   Runn	ning cost   Mainte	
ev. statistics	1							
ev. statistics		frongt ben		x				
ev. statistics		and another	lational System activatio	Contractor of Contractor				
ev. statistics		and another	ationaf System activatio	Contractor of Contractor				
ev. statstics 30		and another		Contractor of Contractor				

Select the "Start time", "End time" and "Calculate device" parameters, and then click the "Calculate" button, then the page will display the result. If not select the "Calculate device", then it default selects all the devices. Display as follow:

y ceasuraption statistics								
	Lists stat	istics					Q	Searching
time 2012-08-23							6	Export
time 2012-08-31	Number	Device name 41100	Device ID 1921681004100000	Runing time (hhomm) 50:04	ON times (times)	Runing electric quantity 181.762	(KWH) Running c 181.762	ost Ma
statistics 41100,41101	2	41101	1921681004100001	71.59	10	216.521	216.521	
	3	41102	1921681004100002	31:04	2	127.461	127.461	
	4	41103	1921681004100003	56.37	11	110.837	110.837	
	5	41104	1921681004100004	53,25	5	132 732	132.732	
	6	41105	1921681004100005	73.39	7	219.442	219.442	2

Click the "Setting" button, popup the dialogue frame, to set the single electricity price and the multistep electricity pricing. Click the "Export" then it will export the displayed results to the xls/txt/csv form.The xls form display as follow.

	A	В	C	D	E	F	G	Н	1
1	Number	Device name	Device ID	Runing time (hh:mm)	ON times (times)	Runing electric quantity (KWH)	Running cost	Maintenance cost	Total cost
2	1	41100	1921681004100000	50:04	7	181.762	181.762	0.7098	182.4718
3	2	41101	1921681004100001	71:59	10	216.521	216.521	0.7098	217.2308
4	3	41102	1921681004100002	31:04	2	127.461	127.461	0.7098	128.1708
5	4	41103	1921681004100003	56:37	11	110.837	110.837	0.7098	111.5468
6	5	41104	1921681004100004	53:25	5	132.732	132.732	0.7098	133.4418
7	6	41105	1921681004100005	73:39	7	219.442	219.442	0.7098	220.1518

Fig.4-22

Click the search icon, and carry out the searching operations for the contents in the page. Such as type in "41100", then the page will display the searching results.

/ Dev indication /	ian Help Schndule / Eco / ECS / Public Dev,	/ Dev. Management / Statistical / Note all	rm / Log
concumption statictics	Lists statistics	41100	Q Searching
ne 2012-08-23	Number   Device name   Device ID   Runing time (hh:mm)   0 1 41100 1921681004100000 50.04	ON times (times)   Runing electric quantity (KWH)   7 181,762	Export Running cost   Ma 181.762
tatistics 41100,41101			

Energy consumption results are only for reference, not use for commercial calculating record. About the electric quantity division principle please refers to IMM TECHNOLOGY MANUAL. If the device was set to be "Public device" or "Idle device", then the energy consumption statistic page will not display the electric quantity division result.

#### 4.9 Public device

For the commercial office building or apartment hotel, and for the correctness of electric quantity division, it needs to set the public device.

trol / Dev school	in / Scher	dade /	Eco	. 1	ECS	/ 1141	te Der. /	Dev Mara	provint /	Statistical	/ 1	ite idam. /	Log	1
while device														
hublic devices(II)	-	-	-	-	-	-	-	-	_	-	_	-		
die device's(0) Ured devices(0)(0)	439	-03	450	4634	100	-	463	-	400	-	403	1633		1
Inibling(267)	40101	40102	48103	40104	40105	48106	40107	40109	40110	40111	40112	40115		
Ungrouped(#1)	40101	40101	40107	-	1000	40100	4010	40107	40110	40111	40112	anti-		
	-	~		4000	1000			~~~~	~~~					
	4013.4	40115	25°C 40116	40117	40113	40119	40120	251C	40122	25%C	402.24	40125		
	1005	I CONT	1000	483	1000	IT SAL	1000	1000	6	17655	Discol.	1000		
	35.0	te c	25-0	50	39.0	SPC	50	35.0	39°C	15.0	SP.C.	350		
	401.26	40127	40128	40129	49130	40131	40132	40133	40134	40135	40136	40137		
	6233	100	63	-	100	433	100	423	-84	453	-	-		
	2910	2510	15°C	are	2910	2510	p'c		are	are	are	are.		
	40138	40139	401.40	40141	49142	40143	40144	40145	40146	403.47	40148	401.47		
	434	1000	200	1227	400	1023	100	1223	100	623	200	432		
	2510	arc.	3510	BCC	are	are	sec	1910	m'c.	2510	sec	25°C		
	40150	40151	481.52	40153	40154	40155	40156	40157	40159	40159	40160	#9161		
	100	100	-			-	10	1		-				1
	200	310	-*-	-*-	-*-	-x-	-*-	-X-	-*-	-×-	-*-	-*-		
	40162	40163	40400	40.481	#0402	40.093	40404	40405	40406	40401	40.485	4040?		
		10	0			100		10						
	-*-	-*-	-*-	-x-	-x-	-x-	-*-	-*-	-×	-x-	-×	-*-		
	40419	40411	40412	40413	40414	40415	40416	40417	40415	40419	40420	40421		
	100	0		1	1	0		1		-		1		1
	40422	-8-	48424	-#-		-8-	-*-	404 29	-*-	45451	48432	40433		

Find the relative air conditioning device in the operated device, click the "as public device" or "as idle device" button, and divide it to the public device or idle device. Idle device means the devices are not used; public device means the devices in the public place, such as air-conditioning devices in the hall or corridor. The cost produced by the idle and public devices will be shared by other devices in IMM system.

## 4.10 Device management

1) Provides the group division function, convenient for device management, display as follow:

	See.		004200441
enu Activation File Project information Help			Lans -
ortrol / Dev minution / Schedule / Eco	/ ECS / Public Dev	/ Dev. Management / Statistical	/ Note them / Lo
Device management			
Indoor unit(330)			
B buildings(267)			
1 flood(125)			
2 floor(144)			
# Ungrouped(KI)			
Outdoor unit(11)			
Outdoor unit(11) Inthi WEB controller(4)			
dit buildings			
Diates			
S 200 C C C C			
Summability massed to the server			1 Weng112) 2012-08-31 16

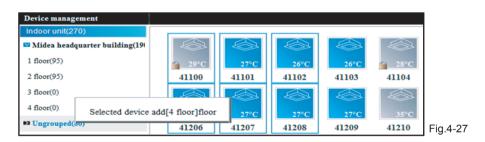
2) Click the relative group option, the corresponding device in the group will be displayed in the right of the page.

Add group:

The adding group method of the outdoor unit is the same as the indoor unit (Take adding the secondary group of indoor unit):



Click the primary group "Building", and then click the "Add" button, type in the secondary group name (4 floor). And click "Save" button, then it established secondary group (4 floor) both at indoor unit and outdoor unit, and select the devices need to be added in the "4 floor", left click the "4 floor" and choose the "add the selected devices into 4 floor".



Successfully added the device, the 4 floor group will display the added devices. Devices only can be added in the secondary group.

Device management						
Indoor unit(270)						
Midea headquarter building(19)						
1 floor(95)	29℃	27°C	26°C	27°C	27°C	27°C
2 floor(95)	41100	41101	41102	41206	41207	41208
3 floor(0)						
4 floor(6)						
▶ Ungrouped(74)						

M-INTERFACE gateway display:

Click the "IMM WEB controller", the page display as follow:

nu Activation File	Project in		Help	and .								_	13414 2 0 0 441 1941	PILLER
trol / Dev indication	/ Scher		Eco	1	ECS	/ Publi	c Dev.	Dev. Manag	ement /	Statistical	1 1	lote alarm		og
erice management														
idoor unit(330)	and the second second		-	(management)				-	-	-		-		
utdoor unit(11) M/WEB controllec(4)	-	-	1	100	-	100	100	100	100	1	0	-		
49(126)	27° C	27°C	3°C	35.6	26°C	2110	26°C	39.6	27°C	21°C	H.C.	27.0		
41(25)	41100	41101	41102	41103	41104	41105	41106	41200	41202	41203	41204	41205		
OM1(9)	- Con-		1	100	100	1		100	No.					
OM2(12)	27°C	2710	arc	arc	are	and.	2710	a me	4 MPC					
(0)EMO	41206	41207	41208	41209	41210	41211	41220	41139	41160					
IOM4(0)														
OM3(1)														
OM6(1)														
(0)FMO														
OMB(2)														
42(130)														
48(68)														

The left page will display all the gateway devices and their terminals, click the relative terminals, the right of the page will display the air-conditioning device under the terminal; 1-4 are indoor unit terminals, 5-8 are outdoor unit terminals.

## 4.11 Data statistics

Calculate the operation changing records of indoor unit, outdoor unit and M-INTERFACE gateway. Check the execution status of the schedule and the changing status of the device through this function.

et / Dev mica	ile Project information Holp im / Schedule / Eco	/ ECS	/ Public D	er. / Dev. Management. /	Statistical (	Ven Note dams / Log	
istical data	Lists statistics					Q Searching	
time time ce raong indoor unit	C         2012-209           Eun/Man Live (Arec) thus (A	Device name	Device ID	Switch status   Running	Fan Setting	Error   Function limit	
Stadietics J Be						ы	

Select the "Start time", "End time" and "Device class" parameters, and then click the "Calculate" button, then the page will display the result. Display as follow:

nu Activation File	Project infor	rmation Help									
ntral / Dev. milication /	Schedule	e / Eco	/ ECS	/ Public De	v. / Dev. Man	agroent /	State	tical /	14	te ilaris / 1	Log
itatistical data											
		- and a state of the									
	Lists stat	tistics						-		Q Ser	arching
Start time 2012-08-31 13										Exp	-
End time 2012-08-31 23	Number	Carlos 1	Device name	Device ID	Switch status	-	Fan	Setting			1
End Bills Provide all 20	Number	Time 2012-08-31 13:04:34	41100	1921681004100000	Off	Coti	Low	17*C	Error	Function limit	-
Instances In	2	2012-08-31 13:04:34	41100	1921681004100000	Offine	-	LOW	1/-6			
Device rating Indoor unit		2012-08-31 13:08:03	41211	1921681004100000	On	Cool	LOw	26°C	-		
	4	2012-08-31 13 08 05	41100	1921681004100000	Off	Cost	LOW	17*0			
	5	2012-08-31 13 22:53	41100	1921681004100000	Offine	COST	LOW	11.0			
	6	2012-08-31 13 24 22	41100	1921681004100000	Off	Cool	LOW	17*0			
	.0	2012-08-31 13:24:51	41100	1921681004100000	Offine		LUW.	17.50			
	6	2012-08-31 13:26:21	41100	1921681004100000	Off	Cool	LOw	17*0			
	6	2012-08-31 13:27:20	41100	1921681004100000	Offine	COUR			-		
	10	2012-08-31 13 35:15	41101	1921681004100001	Offine	12					
	11	2012-08-31 13 35 15	41103	1921681004100003	Offine		-			-	
	12	2012-08-31 12 35 15	41105	1921681004100005	Offine						
	13	2012-08-31 13:35:15	41106	1921681004100006	Offine	-	-	1.00			
	14	2012-08-31 13:48:37	41100	1921681004100000	Off	Cobi	LOW	24°C			
	15	2012-08-31 13 48 37	41101	1921681004100001	On	Cott	High	17°C			
	16	2012-08-31 13:48:37	41102	1921681004100002	On	Cool	Medium	20*0			
	17	2012-08-31 13:48:37	41103	1921681004100003	On	Cook	Medium	20°C			
	18	2012-08-31 12 48 37	41104	1921681004100004	On	Fan	LOW	3010			
	19	2012-08-31 13:48:37	41105	1921681004100005	Off	Cool	Low	24°C		On/Off LimitLocked	LC I
	20	2012-08-31 13:48:37	41105	1921681004100006	On	Cool	Low	17°C		OTTON LINELDONED	
	21	2012-08-31 13:50:06	41105	1921681004100005	On	Cool	High	26*0		Or/Off LimitLocked	ić.
	22	2012-08-31 13:50:36	41103	1921681004100003	On	Cott	High	26*0			
	23	2012-08-31 13:51:05	41103	1921681004100003	On	Cool	Medium	20°C			
	24	2012-08-31 15 06:35	42115	1921681004200015	On	Cool	Low	24°C		Cooling temp. Limit 1	25
	25	2012-08-31 15:06:35	42116	1921681004200016	On	Cool	LOW	24*0		Cooling temp Limit 1	
	26	2012-08-31 15:06:35	42117	1921681004200017	On	Cool	Low	24°C		Cooling temp. Limit 1	
	27	2012-08-31 15:06:35	42118	1921681004200018	On	Cool	Low	24°C		Cooling temp. Limit 3	
	28	2012-08-31 15 06 35	42119	1921681004200019	On	Cool	LOw	24°C		Cooling temp. Limit 1	
	2.9	2012-08-31 15 06 35	42120	1921681004200020	On	Cabl	Low	24°C			
	30	2012-08-31 15:06:35	42121	1921681004200021	On	Cool	LOW	24°C			125
	21	2012-08-31 15 06:35	42127	1921681004200027	On	Cook	Low	24°C			
	32	2012-08-31 15:06:35	42129	1921681004200028	On	Cool	LOW	24°C			
	33	2012-08-31 15:06:35	42129	1921681004200029	On	Cool	Low	24°C			
	34	2012-08-31 15:06:35	42130	1921681004200630	Oh	Cool	LOW	24°C			

Click the search icon in the calculation page, and the result will be displayed in the page. Such as type in "41106", then the page will display the searching results as follow:

al / Devintuation	/ Schedul	e / Eco	/ ECS	/ Public De	w. / Dev. Mao	agement /	Stat	sucal /	Not	alam /	uer / Log	2
itical data	Lists stat	tistics						41	106	1	QSearch	ing
time 2012-05-31 13											. Apot	
time 2012-08-31 23	Number		Device name		Switch status		Fan	Setting			ion limit	1
ce rating Indoor unit	2	2012-08-31 13:35 15 2012-08-31 13:48:37	41106	1921681004100006	Offine	Cool	Low.	17°C				
	0	2012-05-31 17 37 33	41105	1921681004100006	iOn	Fan	Low	38°C				
	- 24	2012-08-31 21:89:53	41105	1921681004100006	Offline	-		-	¥. 3	+		

Click the "Export" button; export the page result to the xls/txt/csv form, the xls form display as follow:

1	A	В	C	D	E	F	G	H		
1	Number	Time	Device name	Device ID	Switch status	Running	Fan	Setting	Error	Function limit
2	1	2012-08-31 13:35:15	41106	1921681004100006	Offline	-	-	-	-	-
3	2	2012-08-31 13:48:37	41106	1921681004100006	On	Cool	Low	17°C		
4	3	2012-08-31 17:37:33	41106	1921681004100006	On	Fan	Low	30°C		
5	4	2012-08-31 21:39:53	41106	1921681004100006	Offline	-	-	-	-	-
6										

# 4.12 Log

Display the IMM system operation records by all the user.

Lenn Activation File	Project information He	-				×	
ontrol / Dev. militation /		co / ECS	/ Public Dev.	/ Dev. Management	/ Statistical / Note sla		
Leg	Lists statistics					QSearching	
Start time 50	Number User	Operation type	Time		Operation content	Devic	
.og type							
Statistice 3 Reset	x]					2	
Survey fully suggest to the server	L				Prompt(0)	32) 2012-09-01 11 23:02	Fig.4-

Select the "Start time", "End time" and "Log type" parameters, the Log type has: orders, schedule, and energy saving and login. And then click the "Calculate" button, and then the page will display the result. Click the "Reset" button, the selection frame will be cleared.

Q Searching Eligent Devic
Devic

Click the search icon, and carry out the searching function. Such as type in "user", then the page will display the searching results, display as follow:

	/ Det antici	tin 7	Schedule	/ 1	cs / EC	5. / Putac De	r. / Der Maragener	J Datased / Hite-steen	/ Leg
Utte statistic         Uste statistic         Operation 23         Operation 24         Operation		_	1.1.1.2.2.2.1	22.2	02 J.C. 785	0	1		
at time 2012-09-01 73 4 time 2012-09-01 73 4 19 type loop 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Visite         Operation spore         Text         Operation science         Description           type#         3         user         Lugon         2012-08-110-081         Light to bit         L			Lists statisti	e8.				user	Q Searching
Vitrom         2012-09-07.23         Vitrom         Cigauritania (dago         Cigauritania (dago         Cigauritania (dago         Cigauritania (dago         Cigauritania (dago         Cigauritania (dago         Cigauritania (dago)         Cigauritania (dago) <thcigauritania (dago)<="" th=""> <thcigauritania (dago)<="" th=""></thcigauritania></thcigauritania>	tere 2012-08-31 B	83							(in second secon
I         Logn         2012 09:11 10:871         Logn         2012 09:11 10:871         Logn Paylete           3         Lose         Logn         2012 09:11 10:871         Logn Paylete         Logn Paylete           4         Logn         2012 09:11 10:871         Logn Paylete         Logn Paylete         Logn Paylete           4         Logn         2012 09:11 10:871         Logn Paylete         Logn Paylete         Logn Paylete           5         Logn         2012 09:11 10:871         Logn Paylete         Logn Paylete         Logn Paylete           6         Logn         2012 09:11 14:11 10:871         Logn Paylete         Logn Paylete         Logn Paylete           7         Logn         2012 09:11 14:11 14:11 10:10 10	2012 08 01 21	-01	1410000014	1000	Cardon and Cardon	1000		120.10020000000000000000000000000000000	
Jogen         Jugen         Jugen         Lugen         Lugen <th< td=""><td>nii fanaaan sa</td><td></td><td>Number</td><td></td><td></td><td></td><td>CONTRACTOR AND</td><td>Operation content</td><td>Devis</td></th<>	nii fanaaan sa		Number				CONTRACTOR AND	Operation content	Devis
3         User         Lign         2012 GH3 10 A41 11         Eff the hydres           4         User         Lign         2013 GH3 14 A40         Light hydres           4         User         Lign         2013 GH3 14 A40         Light hydres           4         User         Lign         2013 GH3 14 A40         Light hydres           4         User         Lign         2012 GH3 14 A40         Light hydres           4         User         Lign         2012 GH3 11 A41 51         Light hydres           7         User         Lign         2012 GH3 11 A41 51         Lign hydres           8         User         Lign         2012 GH3 11 A41 51         Lign hydres           9         User         Lign         2012 GH3 11 A41 51         Lign hydres           10         User         Lign         2012 GH3 11 A41 51         Lign hydres           11         User         Lign         2012 GH3 11 231 51         Light hydres           12         User         Lign         2012 GH3 11 231 51         Light hydres           13         User         Lign         2012 GH3 11 231 51         Light hydres           14         User         Lign         2012 GH3 11 231 51         Light hyd	- 6 mm	-							
4         user         Lugin         2012 08-31 14:444         Lugin transmission           6         user         Lugin         2012 08-31 14:444         Lugin transmission           8         user         Lugin         2012 08-31 14:31 15         Lugin transmission           8         user         Lugin         2012 08-31 14:31 15         Lugin transmission           9         user         Lugin         2012 08-31 12:31 15         Lugin transmission           9         user         Lugin         2012 08-31 12:32 18         Lugin transmission           10         user         Lugin         2012 08-31 12:32 18         Lugin transmission           11         user         Lugin         2012 08-31 12:32 18         Lugin transmission           11         user         Lugin         2012 08-31 12:32 18         Lugin transmission           12         user         Lugin         2012 08-31 12:32 18         Lugin transmission           13         user         Lugin         2012 08-31 12:32 18         Lugin transmission           14         user         Lugin         2012 08-31 12:32 18         Lugin transmission           14         user         Lugin         2012 08-31 12:32 18         Lugin transmission	pe Logn	- 10							
9         user         Lugin         2012 (3-5):1         2013 (3-5									
#         Later         Lugar         2012 0-0-31 144 151         Compt for system           2         Later         Lugar         2012 0-0-31 154 151         For any prime           9         Later         Lugar         2012 0-0-31 154 151         For any prime           9         Later         Lugar         2012 0-0-31 154 151         For any prime           10         Later         Lugar         2012 0-0-31 154 151         For any prime           11         Later         Lugar         2012 0-0-31 152 162         Lugar bring hold           12         Later         Lugar         2012 0-0-31 152 162         Lugar bring hold           14         Later         Lugar         2012 0-0-31 152 162         Lugar bring hold           14         Later         Lugar         2012 0-0-31 152 162         Lugar bring hold           14         Later         Lugar         2012 0-0-31 152 162         Lugar bring hold           14         Later         Lugar         2012 0-0-31 152 162         Lugar bring hold           15         Lugar         Lugar bring hold         2012 0-0-31 162 164         Lugar bring hold           16         Lugar         Lugar         2012 0-0-31 162 164         Lugar bring hold									
7         User         Login         2012 06-31 14:47         FM by hyden           8         User         Login         2012 06-31 12:218         Login hyden           8         User         Login         2012 06-31 12:218         Login hyden           9         User         Login         2012 06-31 12:218         Login hyden           10         User         Login         2012 06-31 12:228         Effer hyden           11         User         Login         2012 06-31 12:228         Effer hyden           12         User         Login         2012 06-31 12:228         Effer hyden           14         User         Login         2012 06-31 12:224         Effer hyden           17         user         Login         2012 06-31 12:224         Effer hyden           18         User         Login         2012 06-31 12:214         Login hyden           20         User         Login         2012 06-31 12:124         Logi									
0         user         Lugin         2012 0-051 122 (15         Lugin Party hybrid           8         user         Lugin         2013 0-051 1253 (15 data Party hybrid           9         user         Lugin         2013 0-051 1253 (15 data Party hybrid           11         user         Lugin         2013 0-051 1253 (25 data Party hybrid           12         Lugin         2013 0-051 1253 (25 data Party hybrid           13         user         Lugin         2013 0-051 1253 (25 data Party hybrid           14         user         Lugin         2013 0-051 1253 (25 data Party hybrid           15         user         Lugin         2013 0-051 1253 (25 data Party hybrid           16         user         Lugin         2013 0-051 1253 (25 data Party hybrid           17         user         Lugin         2013 0-051 1253 (25 data Party hybrid           18         user         Lugin         2013 0-051 151 (25 data Party hybrid           19         user         Lugin         2013 0-051 151 (25 data Party hybrid           20         user         Lugin         2013 0-051 151 (25 data Party hybrid           21         user         Lugin         2013 0-051 151 (25 data Party hybrid           22         user         Lugin         2013 0-051 151 (25 data									
#         Learn         Liggn         2012 0-0-31 (202 0-31 (202 0-31 (202 0-10))           10         Learn         Liggn         2012 0-0-31 (202 0-10)         Liggn (201 0-0-0)           11         Learn         Liggn         2012 0-0-31 (202 0-0)         Liggn (201 0-0-0)           13         Learn         Liggn         2012 0-0-31 (202 0-0)         Liggn (201 0-0-0)           14         Verer         Liggn         2012 0-0-31 (202 0-0)         Liggn (201 0-0-0)           14         Verer         Liggn         2012 0-0-31 (202 0-0)         Liggn (201 0-0-0)           14         Verer         Liggn         2012 0-0-31 (202 0-0)         Liggn (201 0-0-0)           14         Verer         Liggn         2012 0-0-31 (202 0-0)         Liggn (201 0-0-0)           16         Verer         Liggn         2012 0-0-31 (202 0-0)         Liggn (201 0-0-0)           16         Verer         Liggn         2012 0-0-31 (202 0-0)         Liggn (201 0-0-0)           17         Verer         Liggn         2012 0-0-31 (201 0-0)         Liggn (201 0-0-0)           18         Verer         Liggn         2012 0-0-31 (201 0-0)         Liggn (201 0-0-0)           19         Verer         Liggn         2012 0-0-31 (201 0-0)         Liggn (201 0-0-0)									
10         user         L00         2012-06-31 12-2017         L00         L00         L00           11         Luer         L00         2012-06-31 12-2016         L00									
H         Later         Lugin         2012-06-31         25-26-35         Entit m system           12         Later         Lugin         2012-06-31         25-26-35         Hugins Herghem           14         Later         Lugin         2012-06-31         12-25-24         Lugins Herghem           14         Later         Lugin         2012-06-31         12-25-24         Lugins Herghem           14         Later         Lugin         2012-06-31         12-25-24         Entit Merghem           16         Later         Lugin         2012-06-31         12-16-06         Entit Merghem           17         Later         Lugin         2012-06-31         12-16-06         Entit Merghem           18         Later         Lugin         2012-06-31         12-16-06         Entit Merghem           18         Later         Lugin         2012-06-31         12-16-06         Entit Merghem									
12         User         Lugin         2012-06-31         2012-06-31         2012-06-31         2012-06-31         Public May Methy           13         User         Lugin         2012-06-31         2012-06-31         Public May Methy           14         User         Lugin         2012-06-31         12:21-22         Durph Methy           14         User         Lugin         2012-06-31         12:21-22         Lugin Methy           14         User         Lugin         2012-06-31         12:21-22         Lugin Methy           17         User         Lugin         2012-06-31         12:16-32         Lugin Methy           18         User         Lugin         2012-06-31         12:16-32         Lugin Methy           20         User         Lugin         2012-06-31         12:16-32         Lugin Methy           21         User         Lugin         2012-06-31         12:16         Lugin Methy           22         User         Lugin         2012-06-31         12:16         12:16         12:16           23         User         Lugin         2012-06-31         12:16         12:16         12:16         12:16         12:16         12:16         12:16         12:16			1000						
13         Water         Lugar         2012 0-0-11 12:21 10         Mither hydrom           14         Water         Lugar         221 0-0-0-11 22:21 10         Lugar her hydrom           14         Water         Lugar         221 0-0-0-11 12:22 10         Lugar her hydrom           16         Water         Lugar         221 0-0-0-11 12:21 20         Lugar her hydrom           17         Water         Lugar         221 0-0-0-11 12:11 61         Lugar her hydrom           18         Water         Lugar         221 0-0-0-11 12:11 61         Lugar her hydrom           19         Water         Lugar         221 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-									
14         veer         Login         2012-0631         122.242         Login the hydron           16         valeer         Login         2012-0631         2012									
16         same         Logn         2012 0-05 11 022 25 12 Mith registers           16         user         Logn         2012 0-05 11 022 25 12 Logn the registers           17         user         Logn         2012 0-05 11 022 14 02 Mith registers           18         user         Logn         2012 0-05 11 021 40 Mith registers           19         user         Logn         2012 0-05 11 021 40 Mith registers           21         Logn         2012 0-05 11 021 05 Mith registers           21         Logn         2012 0-05 11 021 05 Mith registers           21         Logn         2012 0-05 11 021 05 Mith registers           21         Logn         2012 0-05 11 020 05 Mith registers           22         user         Logn         2012 0-05 11 020 05 Mith registers           22         user         Logn         2012 0-05 11 020 05 Mith registers									
16         User         Lugin         2012 0-83 1 (3:152         Lugin the hydron           17         Luser         Lugin         2013 0-86 1 (3:142         Cath on hydron           18         Lugin         2013 0-86 1 (3:142         Cath on hydron           19         Lugin         2013 0-86 1 (3:162)         Cath on hydron           20         Lugin         2013 0-86 1 (3:162)         Lugin the hydron           21         Lugin         2013 0-86 1 (3:163)         Lugin the hydron           22         Lugin         2013 0-86 1 (3:163)         Lugin the hydron           23         Lugin         2013 0-86 1 (3:163)         Lugin the hydron           24         Lugin         2013 0-86 1 (3:163)         Lugin the hydron           25         Lugin         2013 0-86 1 (3:163)         Lugin the hydron									
17         Lear         Login         2012 (3-6) 11 (2-1) 40.         More Inspire           18         Lear         Login         2012 (3-6) 11 (2-1) 16.         Login Previotin           19         Lear         Login         2012 (3-6) 11 (2-1) 66.         More Inspire           20         Lear         Login         2013 (3-6) 12 (3-6) 11 (3-2) 40.         More Inspire           21         Login         2013 (3-6) 12 (3-6) 11 (3-2) 40.         More Inspire         More Inspire           21         Login         2013 (3-6) 13 (3-6) 12 (3-6) 11 (3-6) 10 (									
18         user         Logn         2012-06-31 12:115         Logn Per yolm           19         user         Logn         2012-06-31 12:016         Enth system           20         user         Logn         2012-06-31 15:02:04         Logn Per yolme           21         user         Logn         2012-06-31 15:02:04         Logn Per yolme           21         user         Logn         2012-06-31 15:02:04         Logn Per yolme           22         user         Logn         2012-06-31 15:02:04         Logn Per yolme           23         user         Logn         2012-06-31 15:02:04         Logn Per yolme									
19         Login         2012-00-31         102:10-00         107:10-00           20         Login         2012-00-31         202         Login         Poil 20-00-31           21         Login         2012-00-31         Login         Poil 20-00-31         Login         Poil 20-00-31           21         Login         2012-00-31         Login         Poil 20-00-31         Month Poil           23         Login         2012-00-31         Login         Poil 20-00-31         Month Poil           23         Login         2012-00-31         Login         Poil 20-00-31         Month Poil           24         Login         2012-00-31         Month Poil         Poil         Poil           26         Login         2012-00-31         Month Poil         Poil         Poil           27         Login         2012-00-31         Month Poil         Poil         Poil         Poil									
20         user         Login         2013/06.011.05.014.01.010.011.010.011           21         user         Login         2013/06.011.010.011.010.011         2014/06.011.010.011           22         user         Login         2013/06.011.00.001.011.000.011.000.011         2014/06.011.010.011           23         user         Login         2013/06.011.00.001.011.00.011.010.011         2014/06.011.010.011									
21         user         Logn         2012-08-21 (5 18 20)         Exit the system           22         user         Logn         2012-08-31 (5 0.5 4)         Logn the system           23         user         Logn         2012-08-31 (5 0.5 4)         Logn the system           23         user         Logn         2012-08-31 (5 0.5 4)         Exit the system									
22 user Login 2012-08-31 15:00:54 Login the system 23 user Login 2012-08-31 15:00:54 the system									
23 user Login 2012-08-31 15/02/21 Exit the system									
			23						
Distriction O Rest 8	Subits Q B		*1						

\_\_\_\_\_

Click the "Export" button; export the page result to the xls/txt/csv form, the xls form display as follow:

- 4	A	B	C	D	E	F	G	н
1 1	Number	User	Operation type	Time	Operation content	Device rating	Device name	Computer IP address
2 1	1	user	Login	2012-09-01 11:06:57	Login the system			192.168.1.240
3 2	2	user	Login	2012-09-01 11:06:38	Login the system			192.168.30.10,10.46.1.117,192.168.100.117
4 3	3	user	Login	2012-09-01 08:46:11	Exit the system			192.168.1.240
5 4	4	user	Login	2012-08-31 16:49:40	Login the system			192.168.1.240
6 5	5	user	Login	2012-08-31 16:25:39	Exit the system			192.168.1.240
7 6	5	user	Login	2012-08-31 15:48:19	Login the system			192.168.1.240
8 7	7	user	Login	2012-08-31 15:41:47	Exit the system			192.168.1.240
9 8	3	user	Login	2012-08-31 15:26:19	Login the system			192.168.1.240
10 9	3	user	Login	2012-08-31 15:25:33	Exit the system			192.168.1.240
11 1	0	user	Login	2012-08-31 15:25:07	Login the system			192.168.1.240
12 1	11	user	Login	2012-08-31 15:24:26	Exit the system			192.168.1.240
	12	user	Login	2012-08-31 15:23:26	Login the system			192.168.1.240
14 1	13	user	Login	2012-08-31 15:23:13	Exit the system			192.168.1.240
15 1	4	user	Login	2012-08-31 15:22:42	Login the system			192.168.1.240
16 1	15	user	Login	2012-08-31 15:22:25	Exit the system			192.168.1.240
17 1	16	user	Login	2012-08-31 15:21:52	Login the system			192.168.1.240
18 1	17	user	Login	2012-08-31 15:21:40	Exit the system			192.168.1.240
19 1	8	user	Login	2012-08-31 15:21:19	Login the system			192.168.1.240
	9	user	Login	2012-08-31 15:21:06	Exit the system			192.168.1.240
21 2	20	user	Login	2012-08-31 15:20:40	Login the system			192.168.1.240
22 2	21	user	Login	2012-08-31 15:18:30	Exit the system			192.168.1.240
23 2	22	user	Login	2012-08-31 15:06:54	Login the system			192.168.1.240
	23	user	Login	2012-08-31 15:03:21	Exit the system			192.168.1.240
25 2	24	user	Login	2012-08-31 15:02:12	Login the system			192.168.1.240
26								

-ig.4-37

#### 4.13 Prompt message

Display the failed control operation records and the connecting information between client-side and server; when the operation failed, prompt message icon will be red. User can click "Prompt message" icon to check the relative information, the prompt message frame display as follow:

Number	Prompt Type	Time	Device rating	Device name	
10	Command failed	2012-07-13 09:47:29	Indoor unit	43107	
11	Command failed	2012-07-13 09:47:26	Indoor unit	43106	
12	Command failed	2012-07-13 09:47:23	Indoor unit	43105	
13	Command failed	2012-07-13 09:47:20	Indoor unit	43104	
14	Command failed	2012-07-13 09:47:17	Indoor unit	43103	
15	Command failed	2012-07-13 09:47:14	Indoor unit	43102	
16	Command failed	2012-07-13 09:47:11	Indoor unit	43101	
17	Command failed	2012-07-13 09:47:08	Indoor unit	43100	
18 Su	ccessfully connect to the server	2012-07-13 09:46:32			-
	m		1	•	

Click a prompt message, the page will display details of this information. If check the "Popup the newest prompt", then it will automatically popup this prompt frame when there is prompt message.

#### 4.14 Alarm message

When there was device error, lost connection, the system would has alarm message. The alarm frame display as follow:

lumber	Current status	Time	Device rating	Device name	Alarm details	
236	Alarm	2012-07-13 08:59:56	Outdoor unit	40800	Ammeter discon	
237	Alarm	2012-07-13 08:59:56	Outdoor unit	48800	Ammeter discon	
238	Alarm cleared	2012-07-13 09:03:00	Indoor unit	48400	Disconnection al	
239	Alarm	2012-07-13 09:00:30	Indoor unit	48408	Disconnection al	
240	Alarm	2012-07-13 09:00:30	Indoor unit	48420	Disconnection al	
241	Alarm	2012-07-13 09:00:30	Indoor unit	48421	Disconnection al	
242	Alarm	2012-07-13 09:00:30	Indoor unit	48422	Disconnection al	
243	Alarm	2012-07-13 09:00:30	Indoor unit	48423	Disconnection al	
244	Alarm	2012-07-13 09:00:30	Indoor unit	48425	Disconnection al	
245	Alarm	2012-07-13 09:00:30	Indoor unit	48426	Disconnection al	
246	Alarm	2012-07-13 09:00:30	Indoor unit	48427	Disconnection al	

After the alarm situation removal, the alarm frame will display the alarm has been removed. Click a prompt message, the page will display details of this information. If check the "Popup the newest prompt", then it will automatically popup this prompt frame when there is prompt message. When there was alarm message, it should be maintained immediately.

# 5. TROUBLESHOOTING

#### 5.1 Login failed

1) Fail to connect the server

M	1864/306-44182/A28	
<u>, d</u> All	Intelligent Manager	
	Zanazi han A Zanazi han ha jaran, wa ligan faziki <u>ut</u> D <u>ina</u> D <u>Const.</u>	
	Fic	g.5-

Carry out the login operation when it is not connect the server, the result be displayed as the above; it should check the client-side configuration information and the network of the server and client-side.

#### 2) Wrong password

6	MOT 210 44 BILLAR
////htm	
Intelligent Manager	
The particular is a second sec	

The above figure means the password was wrong. It needs to re-type in the correct password.

# 5.2 Control failed

- 1) When setting the mode limit, it might be caused control failed. Such as the heating mode limit has been set, then open the cooling mode, and which will cause control failed, and the failed information will display in the prompt message frame. It needs to un-lock the air-conditioner, and do the mode setting again.
- 2) If limited the remote controller, and then use the remote controller to control the air-conditioner will cause operation failed.
- 3) When controlling the indoor unit, if it was failed, then found out the reason through the prompt message.

# 5.3 No respond in page

If the page cannot be operated, then should check the connecting icon in the lower left of the page to judge whether it was normally connected to the server, if connection failed, then it needs to contact the local dealer or technicians to maintain the network.

# 6. APPENDIX

# 6.1 Error code analysis of client-side interface

The following error code tables are suitable for the V4+ series indoor and outdoor units. When there was error please contact technicians for maintenance immediately.

Indoor unit error code table:

Table.6-1

Wrong phase order or none phase	P1	Anti cold air or defrosting protection
Communication error	P2	High temperature protection of condenser
T1 sensor error	P3	Temperature protection of compressor
T2A sensor error	P4	Temperature protection of air exhausting pipe
T2B sensor error	P5	Protection for high air exhausting pressure
Air exhausting temp. sensor error of T3 or T4 or digital compressor	P6	Protection for low air exhausting pressure
Zero crossing detection error	P7	Power over pressure protection
EEPROM error	P8	Compressor over current
Fan speed detection lose control	PF	Other protections
Communication error between main board and display board	0#	Communication error between network connector module and main control board
Compressor over current (4 times)	1#	Communication error between centralized monitor and network connector module
Inverter module protection	2#	Communication error between centralized monitor and function module
Fresh error	3#	Communication error between centralized monitor and computer (gateway)
Outdoor unit error protection	4#	Order limit execution
Water level detection error	5#	Order times out, no execution
Other errors	6#	Excepted address do not exist
Temperature protection of evaporator	7#	Wrong (not-supported) order
	T2A sensor error T2B sensor error Air exhausting temp. sensor error of T3 or T4 or digital compressor Zero crossing detection error EEPROM error Fan speed detection lose control Communication error between main board and display board Compressor over current (4 times) nverter module protection Fresh error Outdoor unit error protection Water level detection error Other errors	T2A sensor errorP4T2B sensor errorP5Air exhausting temp. sensor error of T3 or T4 or digital compressorP6Zero crossing detection errorP7EEPROM errorP8Fan speed detection lose controlPFCommunication error between main board and display board0#Compressor over current (4 times)1#nverter module protection2#Fresh error3#Outdoor unit error protection4#Water level detection error5#Other errors6#

Table.6-2	
Table.0-2	

E0	Outdoor unit communication error	P2	Protection for low air exhausting zpressure
E1	Wrong phase order or none phase	P3	Compressor current protection 1
E2	Indoor unit communication error	P4	Temperature protection of air exhausting pipe
E3	Air exhausting temp. sensor error of T3 or T4 or digital compressor	P5	High temperature protection of condenser
E6	T6 sensor error	P6	Inverter module protection
E9	Voltage error	Ρ7	Compressor current protection 2
EF	Other errors	P8	Compressor current protection 3
HO	DSP communication error	P9	Power over pressure protection
H1	Network communication error	PA	Defrosting protection
H2	Outdoor unit reducing error (Valid for main unit)	PD	Oil return
НЗ	Outdoor unit increasing error (Valid for main unit)	PE	Oil averaging
PO	Protection for compressor top temperature	PF	Other protections
P1	Protection for high air exhausting pressure	_	

-----

# MD12U-010AW

202055100873