IHMS (Intelligent Hotel Manage software, also called GRMS, Guest Room Manage Software) is a hotel manage software developed by HDL, with powerful hotel host module SB-DN-48HNET and its affiliated module (SB-DN-HMIX10, SB-DN-RMIX24, etc.), IHMS is capable to control, monitor and manage lamps, ventilation fans, ACs, curtains, door bell, booking, checking, house-keeping informing, SOS alarm, etc.

~~This manual uses IHMS software (V1.06.60), SB-DN-48HNET (HDL_V1.00.1_2012/08/31) and affiliated module SB-DN-RMIX24.~~

~~This manual uses IHMS software (V1.06.66), SB-DN-48HNET (HDL_V1.00.1_2012/11/13) and affiliated module SB-DN-RMIX24. (manual V1.1)~~

~~Revision note:~~

~~1. Add new feature of IHMS software - web server (V1.1, see page 28)~~

~~2. Add one more "*status scene*" - "*out of service*" (V1.1, see page 28)~~

~~This manual uses IHMS software (V1.07.099), SB-DN-48HNET (HDL_V1.01.1_2013/04/28) and affiliated module SB-DN-RMIX24. (manual V1.2)~~

~~Revision note:~~

~~1.Add new function of IHMS software - AC season control (V1.2, see page 29)~~

This manual uses IHMS software (V1.08.103), SB-DN-48HNET (HDL_V1.01.1_2013/04/28) and affiliated module SB-DN-RMIX24. (manual V1.3)

Revision note:

1.Add new feature of IHMS software - Setup new language(V1.3, see page 31)

Content

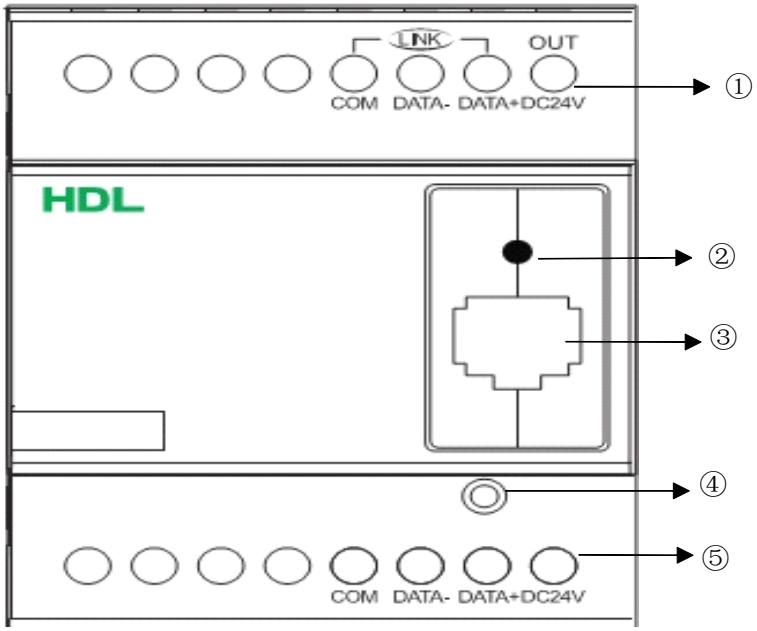
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1. Hardware and topology

1.1 SB-DN-48HNET

- power supply：DC24V
- power consumption：90mA/DC24V
- interface：INNER-BUS
  HDL-BUS
  RJ45
- installation method： 35mm Din rail
- environment conditions：
  Working ambient temp: 0℃－40℃
  Working ambient humidity: 20%－90%
  Store temp： -40℃－+55℃
  Store humidity: 10%－93%
- product size：72 m m×88 m m×66m m

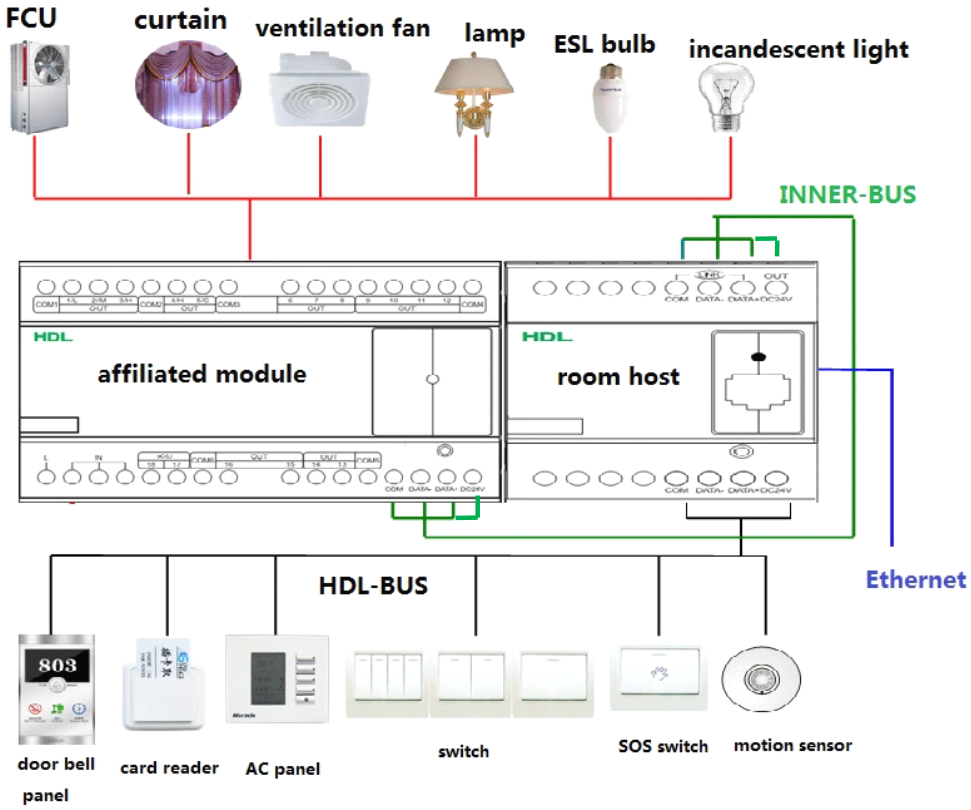
Front:



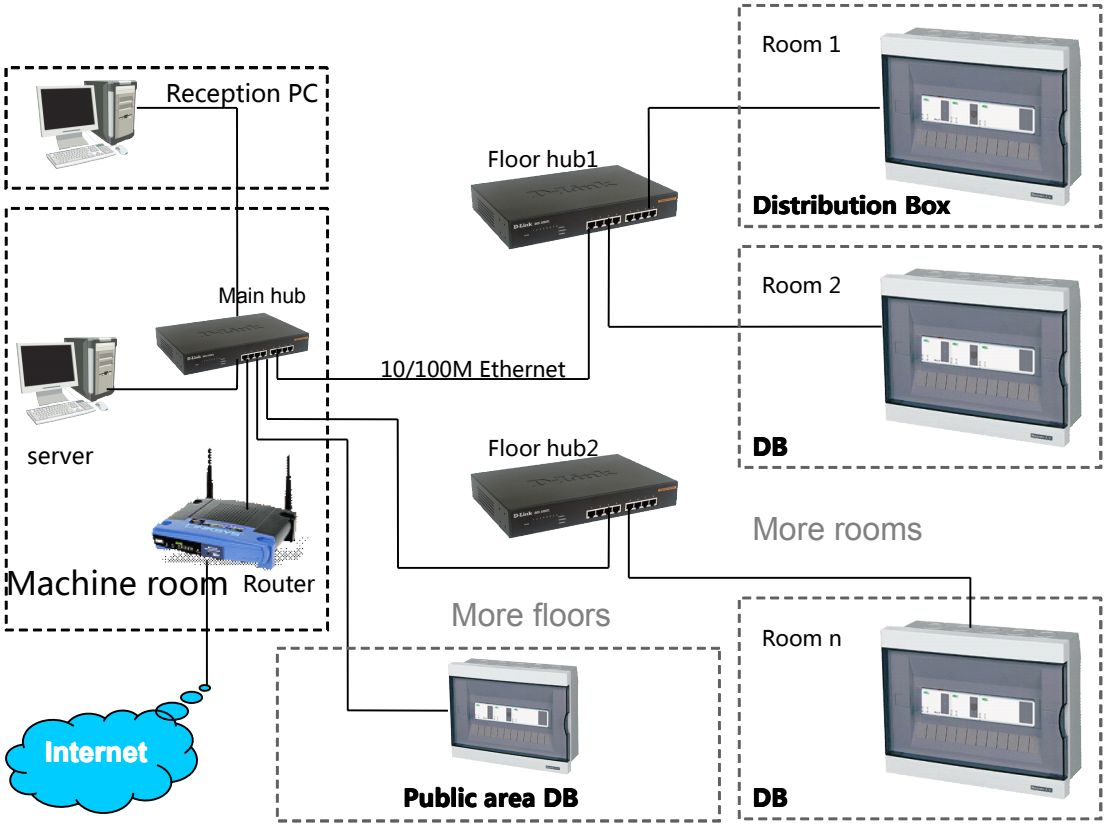
① INNER-BUS, connect with affiliated module
② Led, goes green when no data transferring on RJ45, goes red when transferring data.
③ RJ45, Ethernet interface.
④ push button & LED indicator： Press and hold it for 2 seconds, will send out its MAC; press and hold for 5s, will restart; press and hold for 10s, its IP reset to factory default one.
⑤ HDL-BUS

1.2 Topology

topology (room level)



topology (system level)



2. Features and interface introduction

2.1 Login

There are three types of user, administrator, master user and HDL user.

Administrator

This type of user has no limit to view, control, set up, modify, monitor.

Username: admin

Password: admin (default)

Master User

This type of user can view and control, but can't set up anything.

Username: master

Password: master (default)

HDL User

This type of user can just view but nothing.

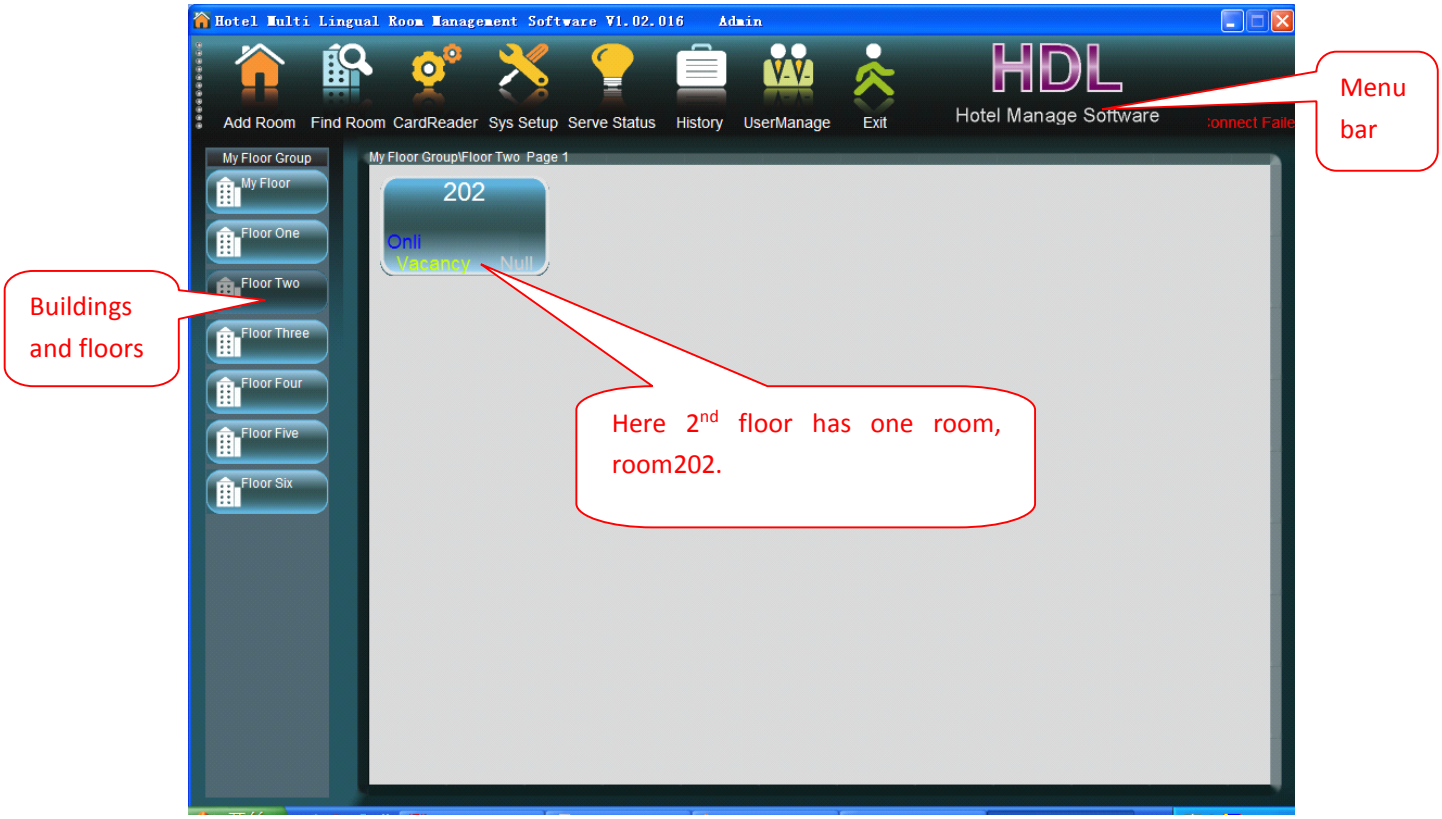
Username: hdl

Password: hdl (default)

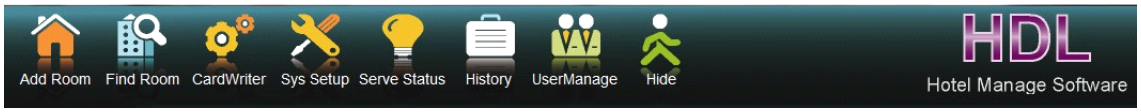
Login interface



2.2 Main interface:



Menu bar:

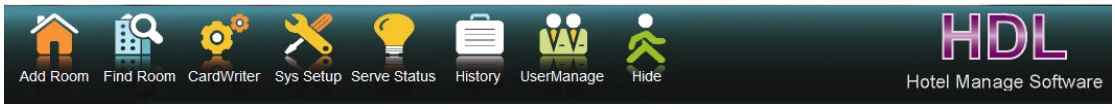


（1）Add Room：Add new room host (SB-DN-48HNET)
（2）Find Room：Search rooms that available, have service requests, etc.
（3）Card Reader：Write key card
（4）Sys Setup： Set system parameters, like resolution, set up customized service name, etc.
（5）Serve status：Show the record of guests' service requests.
（6）History：Show card log, alarm log and door lock log.
（7）User Manage：View, add, delete or modify user
（8）Hide：Minimize

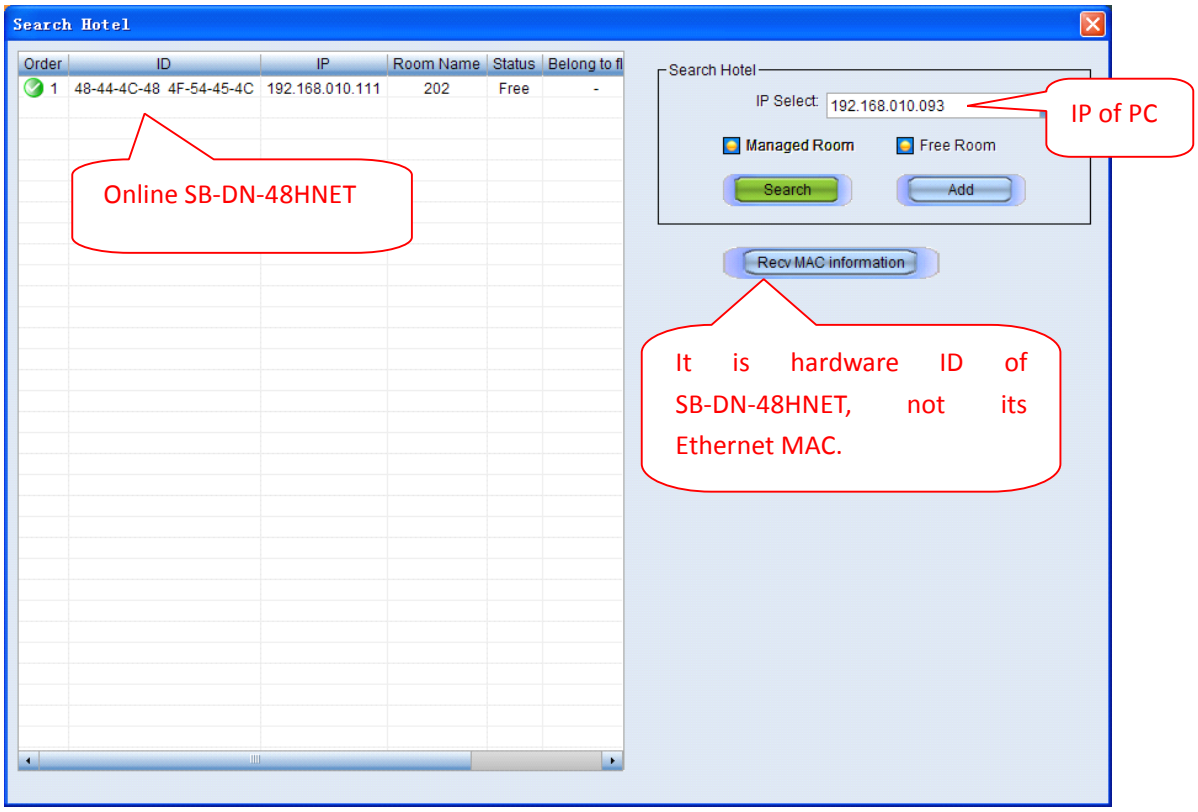
2.3 Menu

2.3.1 Add Room

Search and find online rooms (SB-DN-48HNET).

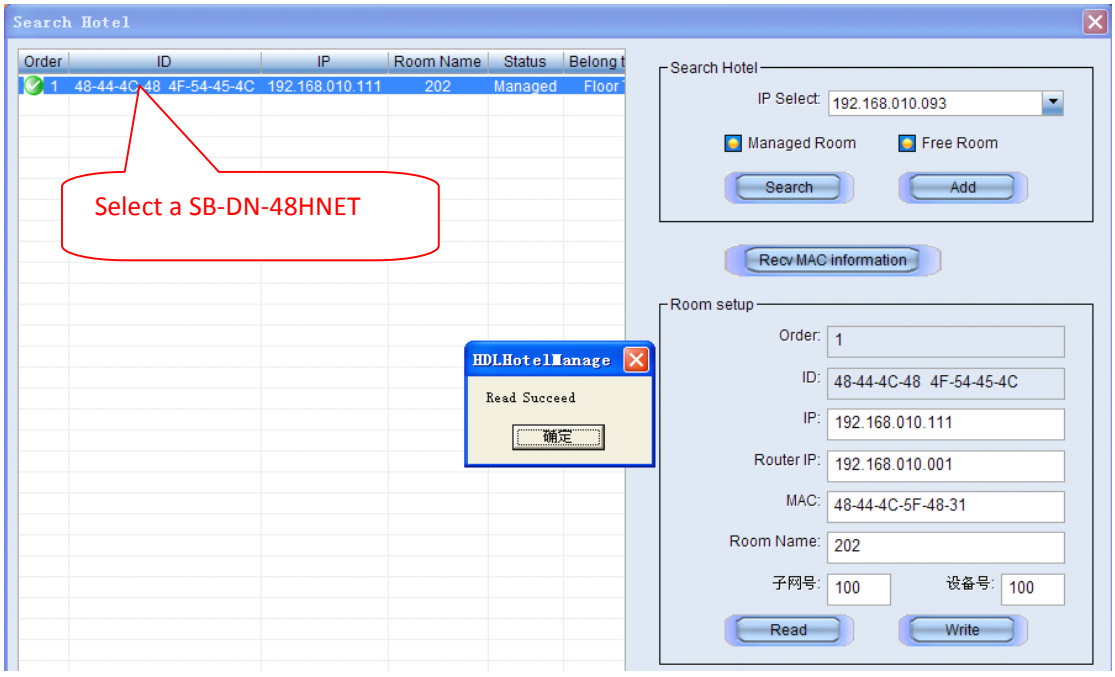


Search online SB-DN-48HNET:



Managed Room: Rooms that already added previously
Free Room: Rooms that not added yet
Recv MAC information: If needed, click this icon and press the button of SB-DN-48HNET for 2 seconds (but not longer than 5 seconds) to get the ID. The SB-DN-48HNET will send out its hardware ID (not Ethernet MAC).

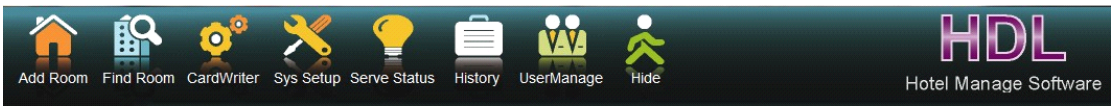
View or modify parameters:

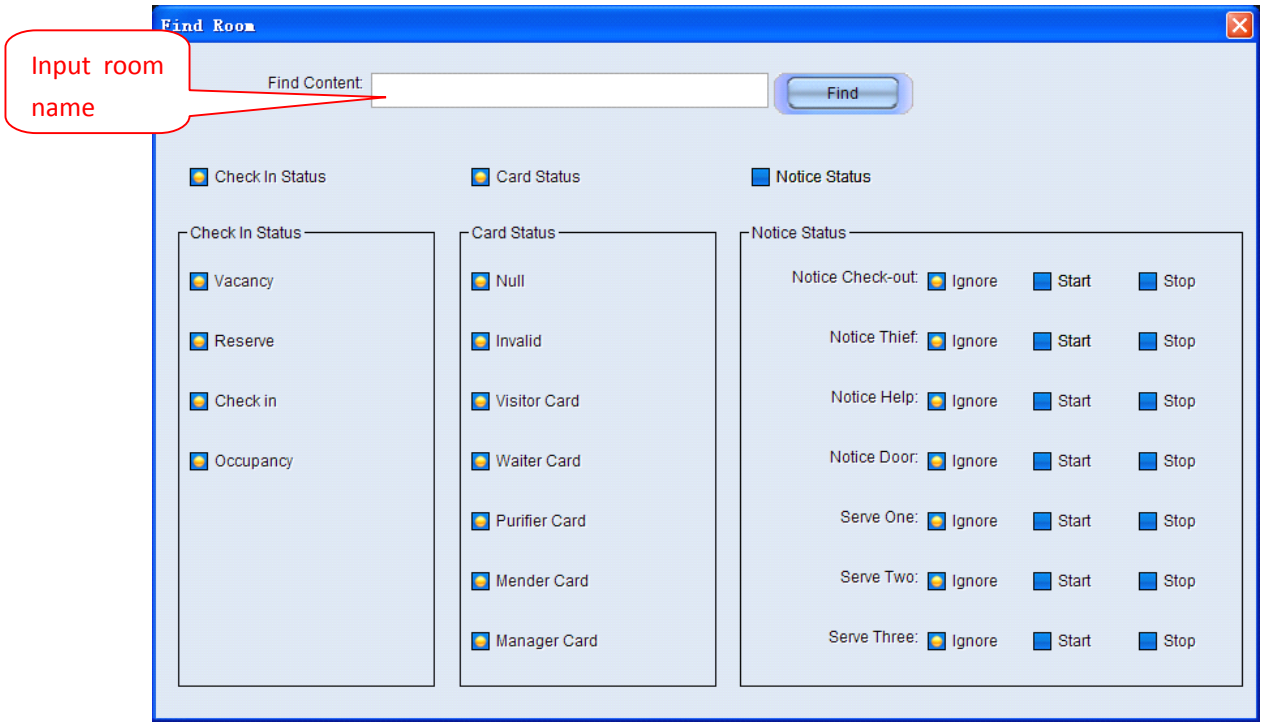


(1)ID: 48-44-4C-48 4F-54-45-4C, a unique hardware ID of SB-DN-48HNET, can't be changed unless having a tool supplied by HDL.
(2)IP: 192.168.10.111, a unique IP of SB-DN-48HNET
(3)Router IP: 192.168.10.001, the IP of gateway
(4)MAC: 48-44-4C-5F-48-31, a unique Ethernet MAC of SB-DN-48HNET

2.3.2 Find Room

Find rooms that are vacancy, have service request, etc.

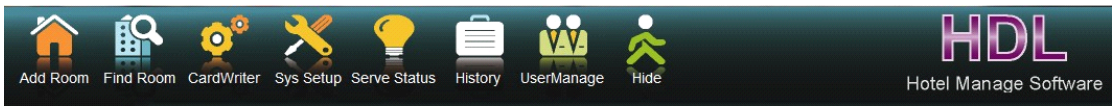




Input room name to find specific room, or find rooms that satisfy the conditions selected.

2.3.3 Card Writer

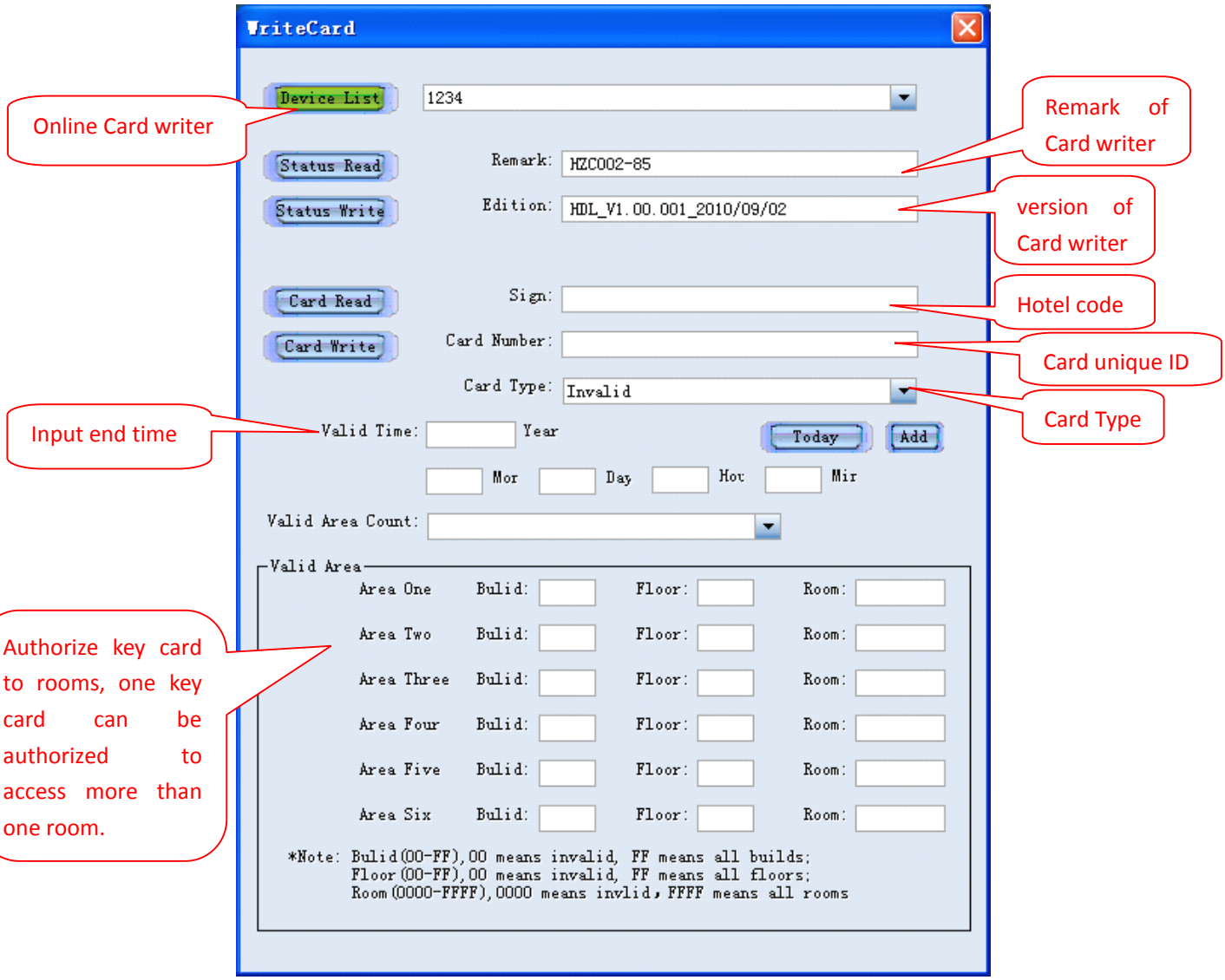
Write key card for customers, housekeepers, etc.



Card writer (with USB terminal):



Under the directory "C:\Program Files\HDL\HDL IHMS", you can find driver for card writer, "USB 发卡器_驱动程序".

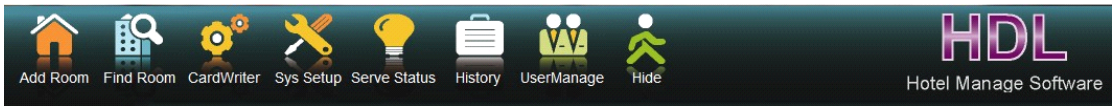


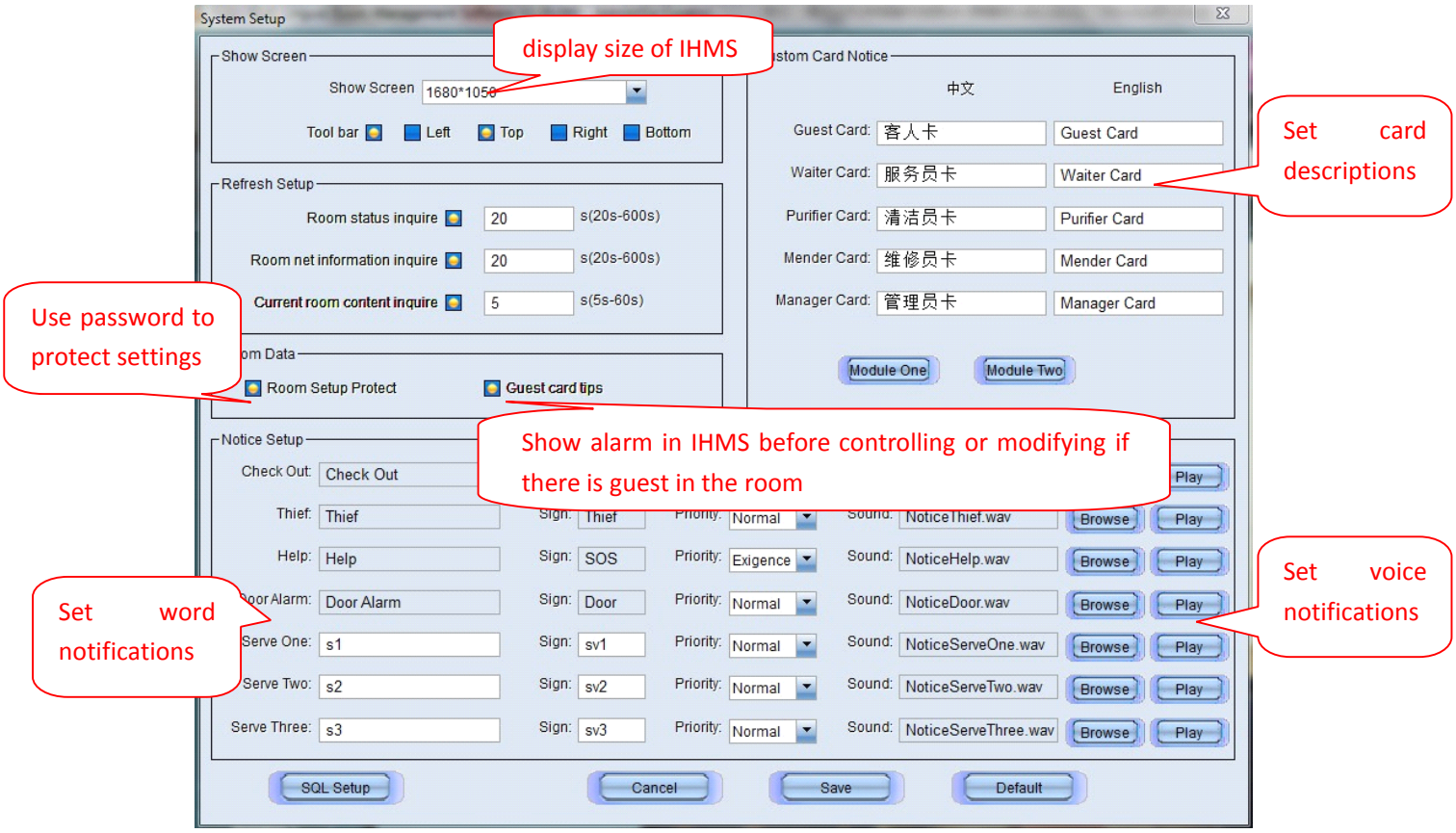
Remark: Remark of card reader, 20 bytes.

Edition: Version of card reader

Sign: Hotel code, e.g., a Hotel name
Card number: Unique ID of key card, 6 digit or alphabet(0-9,A-F)

2.3.4 Sys Setup

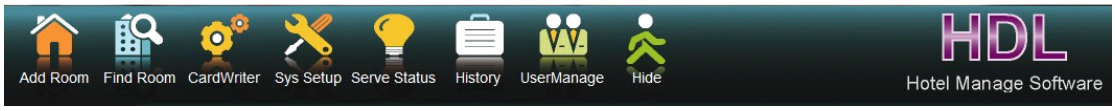


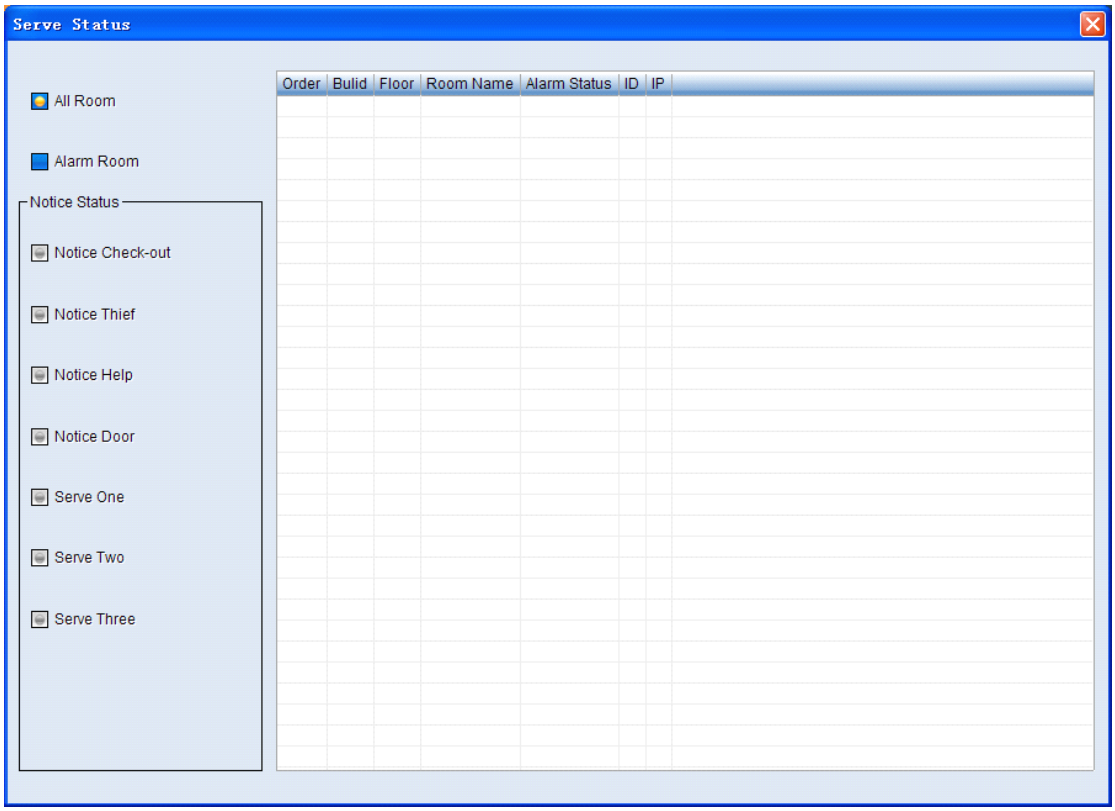


(1)Show Screen : display size : full screen , 800*600, 1024*768, 1280*1024, etc.
(2)Tool bar: place the tool bar.
(3)Refresh Setup:
●Room status inquire: Set the IHMS refresh time of room status (key card status, current running scene, etc)
●Room net information inquire: Set the IHMS refresh time of room net information inquire (room IP, MAC, room name, etc)
●Current room content inquire: Set the IHMS refresh time of current room

content inquire (AC status, lamp status, curtain status, etc)
Room Setup Protect: If the option is checked, password is needed when entering control or setup mode.
Guest card tips: If the option is checked, alarm will show if the guest is in the room when you enter control or setup mode.

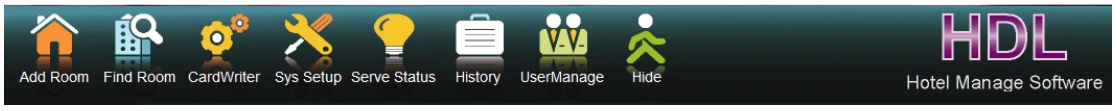
2.3.5 Serve Status

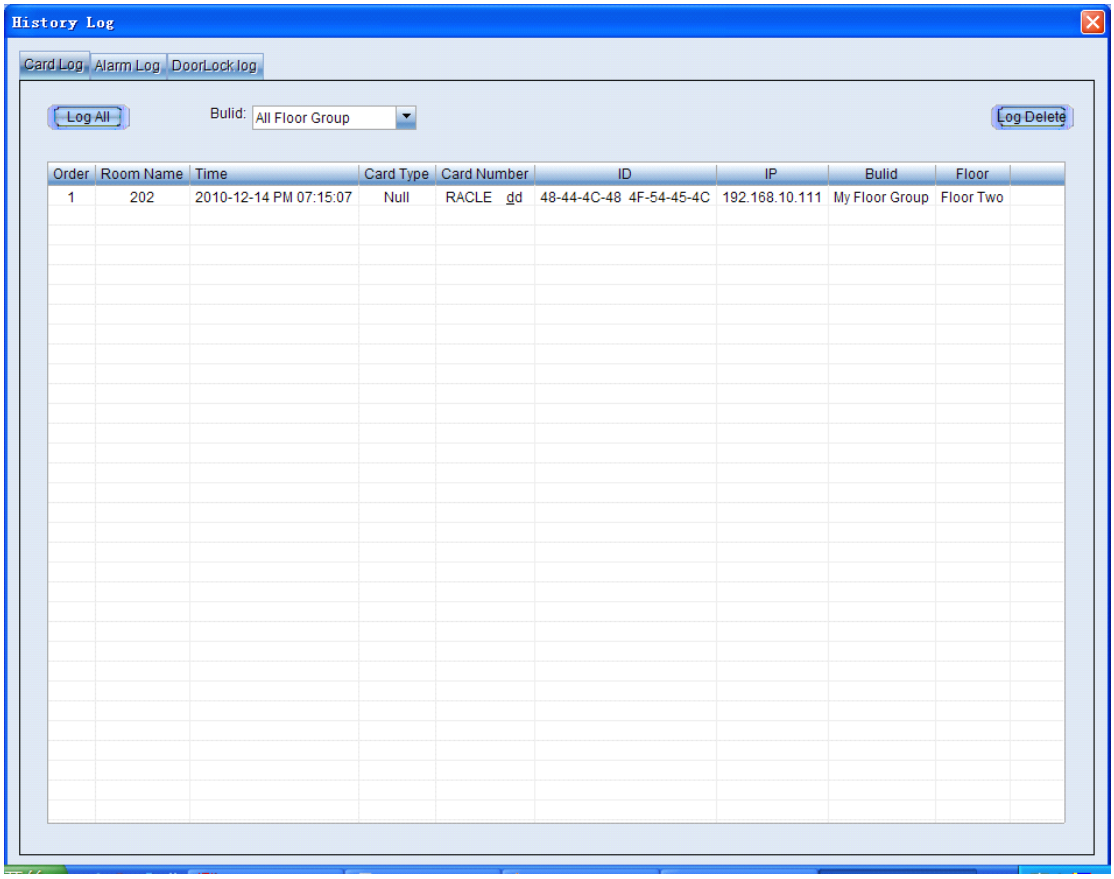




Check notifications of all rooms or rooms with specific notifications.

2.3.6 History





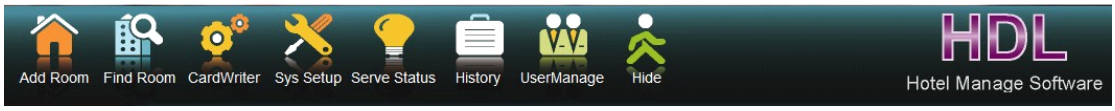
(1)Card Log: the key card record

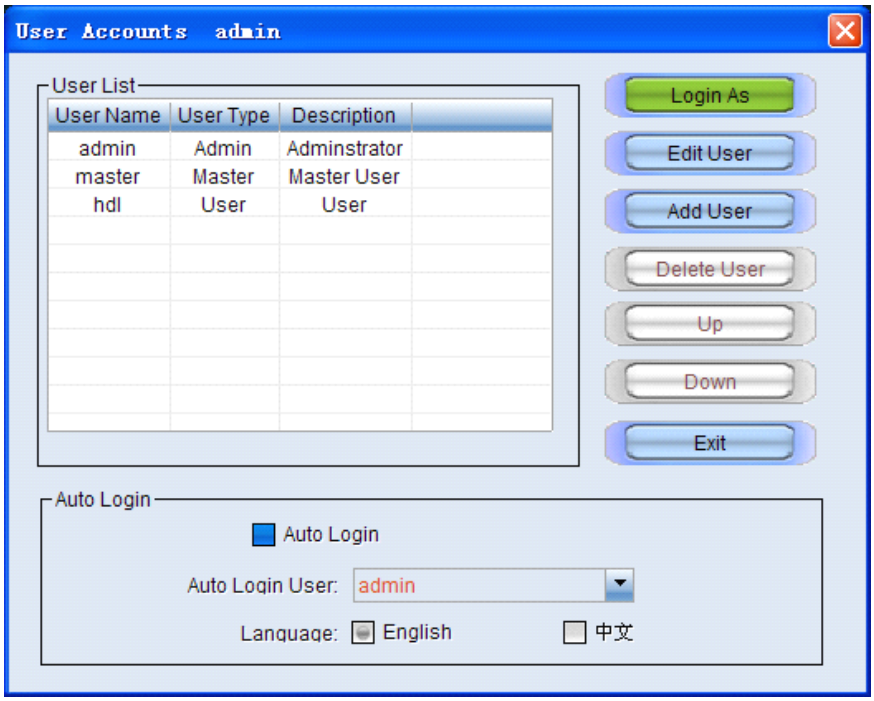
(2)Alarm Log: the record of notifications from each room

(3)Door Lock Log: the record of door lock

2.3.7 User Manage

To add, delete or modify IHMS software user.





See Para 2.1 *login*

Auto Login: no password needed to start the IHMS software if this option is checked.

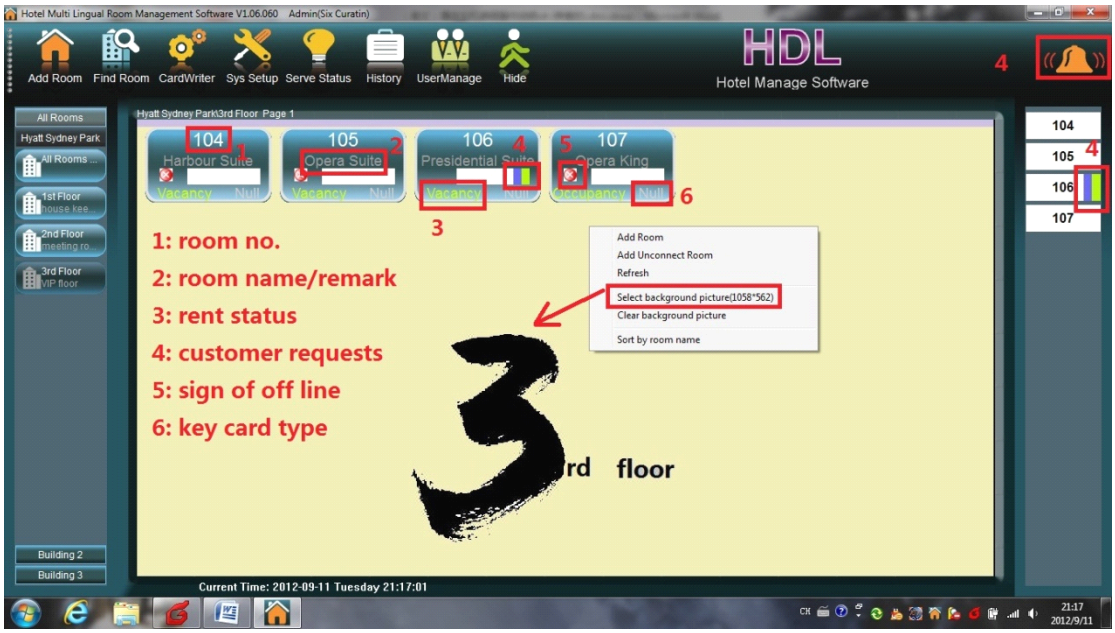
2.3.8 Hide

Minimize the IHMS software window

3. Set up

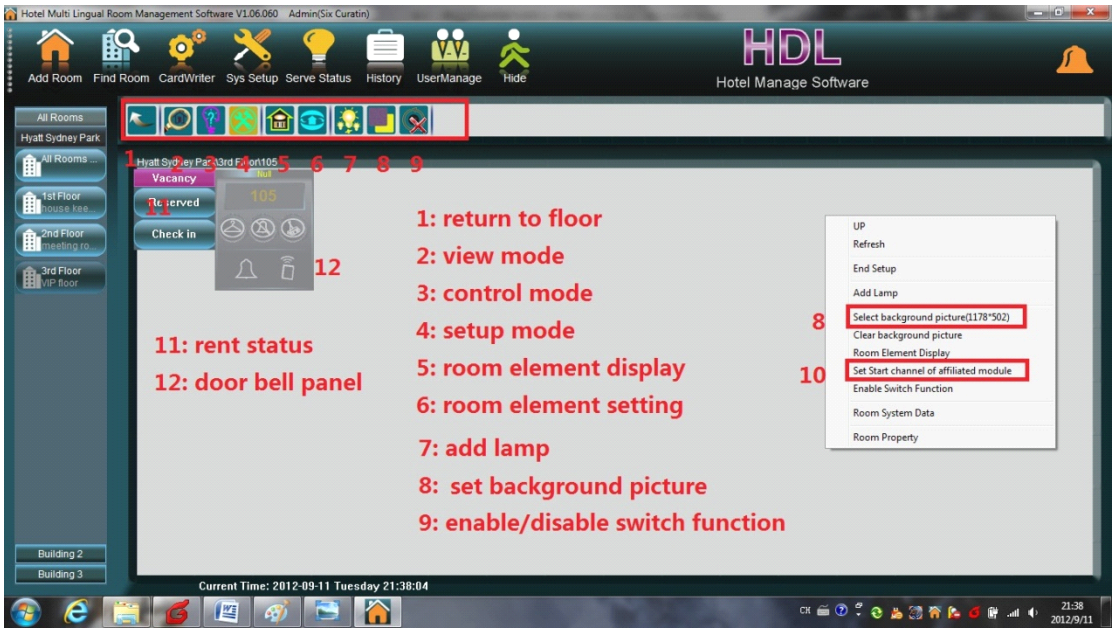
3.1 Add room (see 2.3.1)

3.2 Add floor background

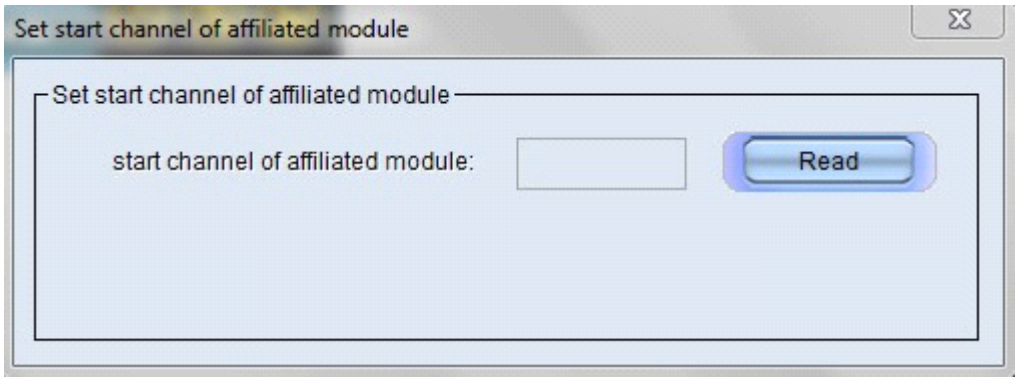


3.3 set start channel of affiliated module

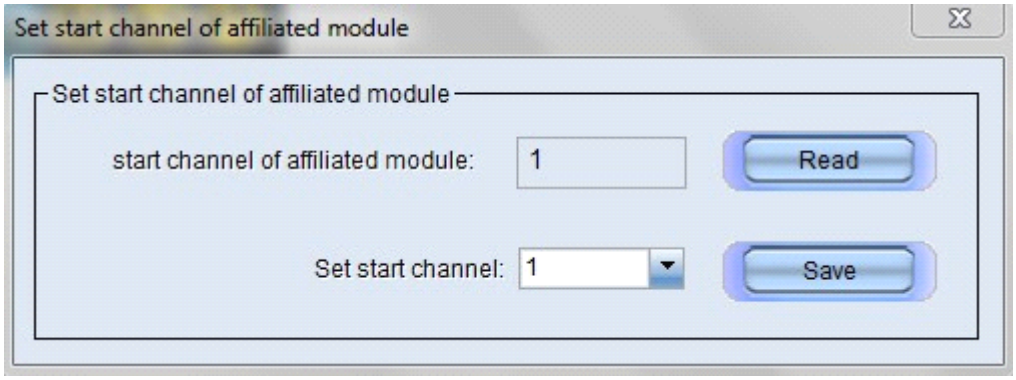
Click one of the rooms above and you will see interface below:



3.3.1 Click “set start channel of affiliated module” (see “10” on the above screen shot) and you will see:



3.3.2 Press the button on the affiliated module (see 1.2 topology (room level)) till the LED of affiliated module goes red, click “read” and you will see:



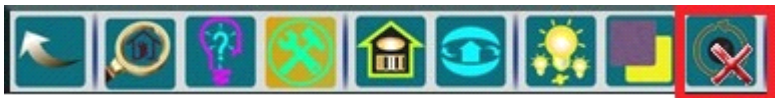
Set the start channel (generally just set it as “1”) and save.

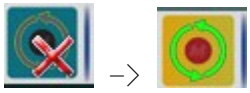
In this manual we use only one affiliated module SB-DN-RMIX24, if connect

one more SB-DN-RMIX24, the start channel of the new added SB-DN-RMIX24 can be set as 25.

3.4 enable switch/gateway function

click the switch icon to enable the switch function of SB-DN-48HNET,





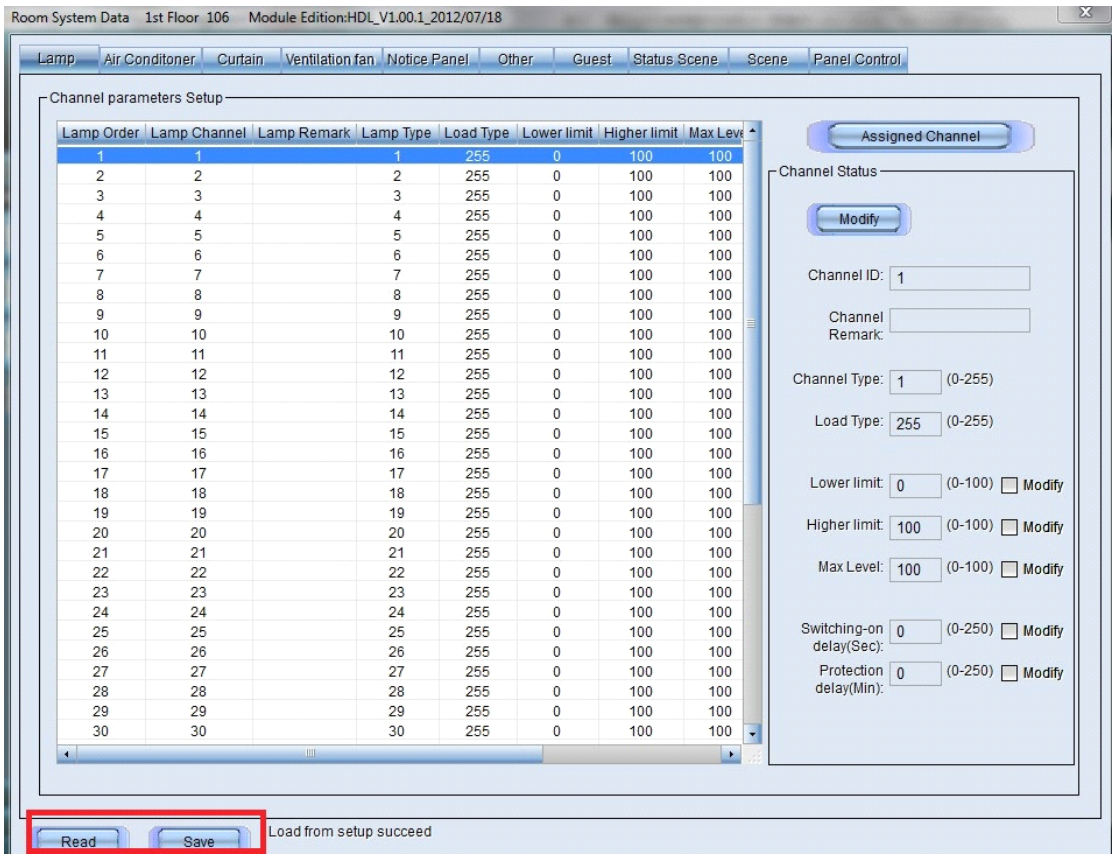
Now the *HDL-BUS configuration client* software shall be able to access HDL-BUS system through SB-DN-48HNET (room host module).

Once you leave this interface, the switch icon will automatically go back to , this is a mechanism to block possible commands coming from other rooms.

3.5 click room element setting

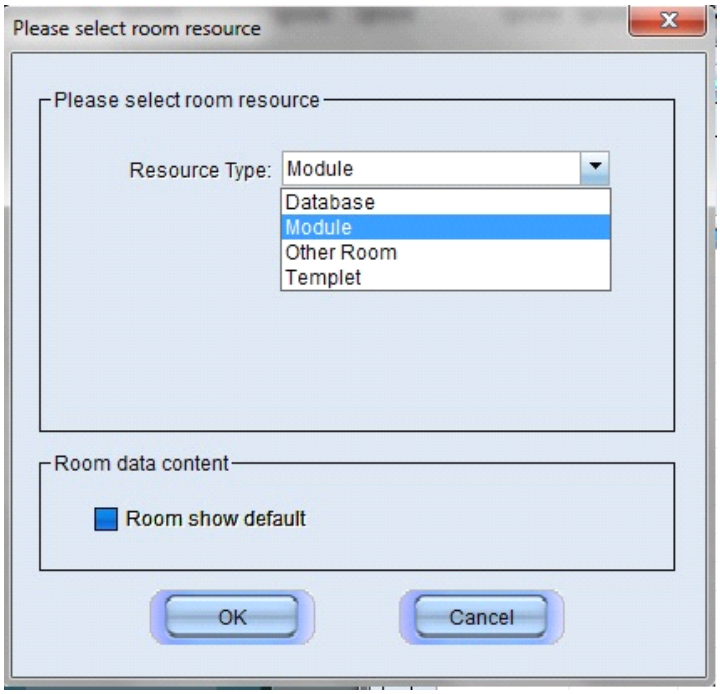


You will see this interface:

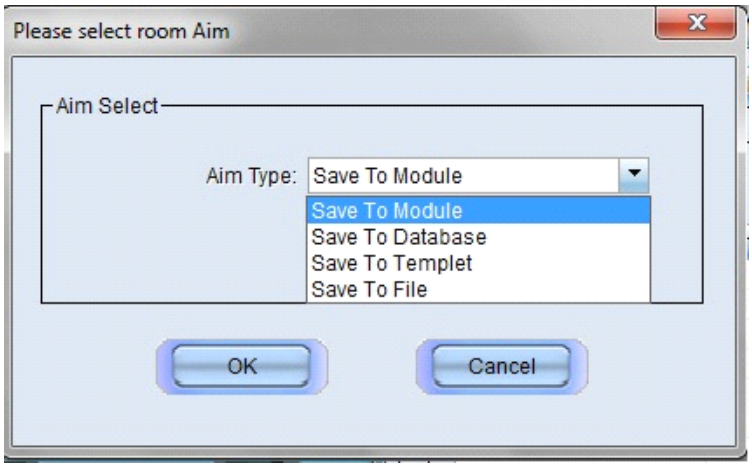


There are 10 tabs, i.e., "Lamp", "Air Conditioner", "Curtain", "Ventilation fan", "Notice Panel", "Other", "Guest", "Status Scene", "Scene", "Panel Control". Almost all setup jobs are here.

!!*Read/Save*: if you just need to check or modify the settings in SB-DN-48HNET a little, you need to read the setting from SB-DN-48HNET first, so that you won't overlap the other settings.

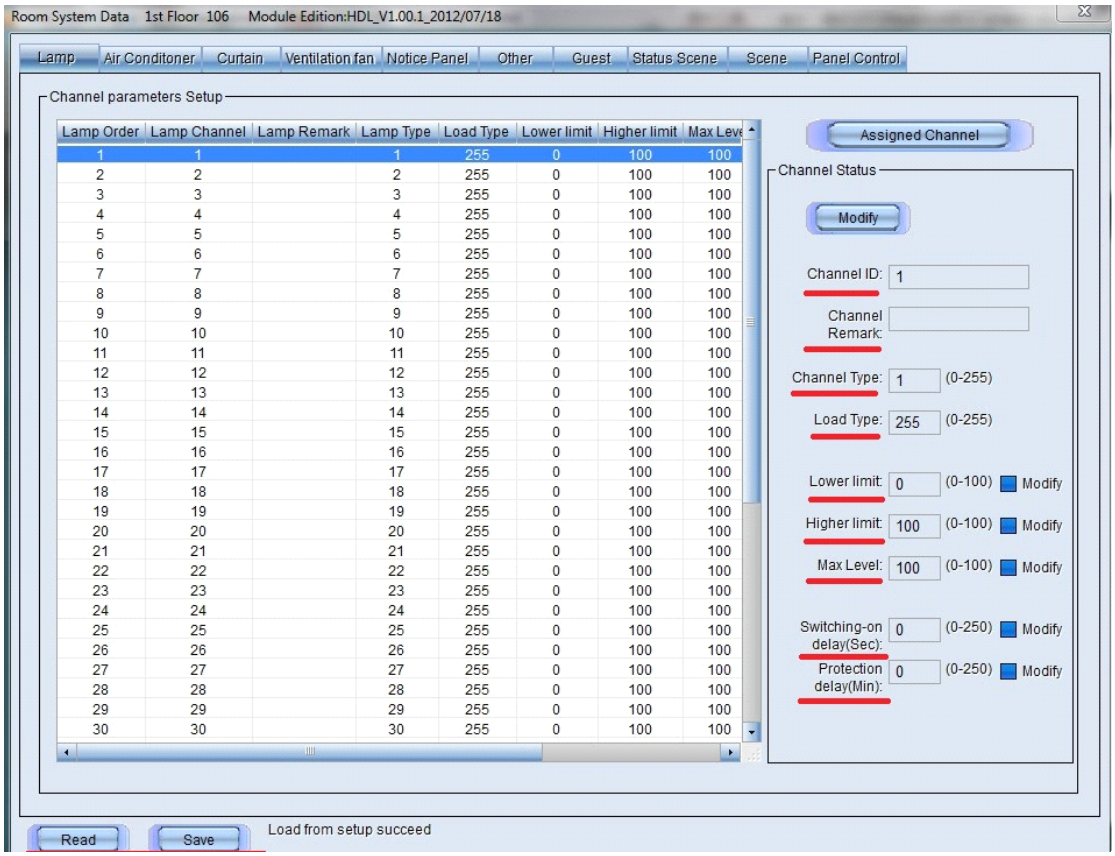


Database: read from IHMS
Module: read from current SB-DN-48HNET module
Other Room: read from other SB-DN-48HNET module
Templet: read from tpt file.



Save To Module: save to current SB-DN-48HNET module
Save To Database: save to IHMS
Save To Templet: save as a tpt file in a default directory
Save To File: save as a tpt file, directory can be chosen.

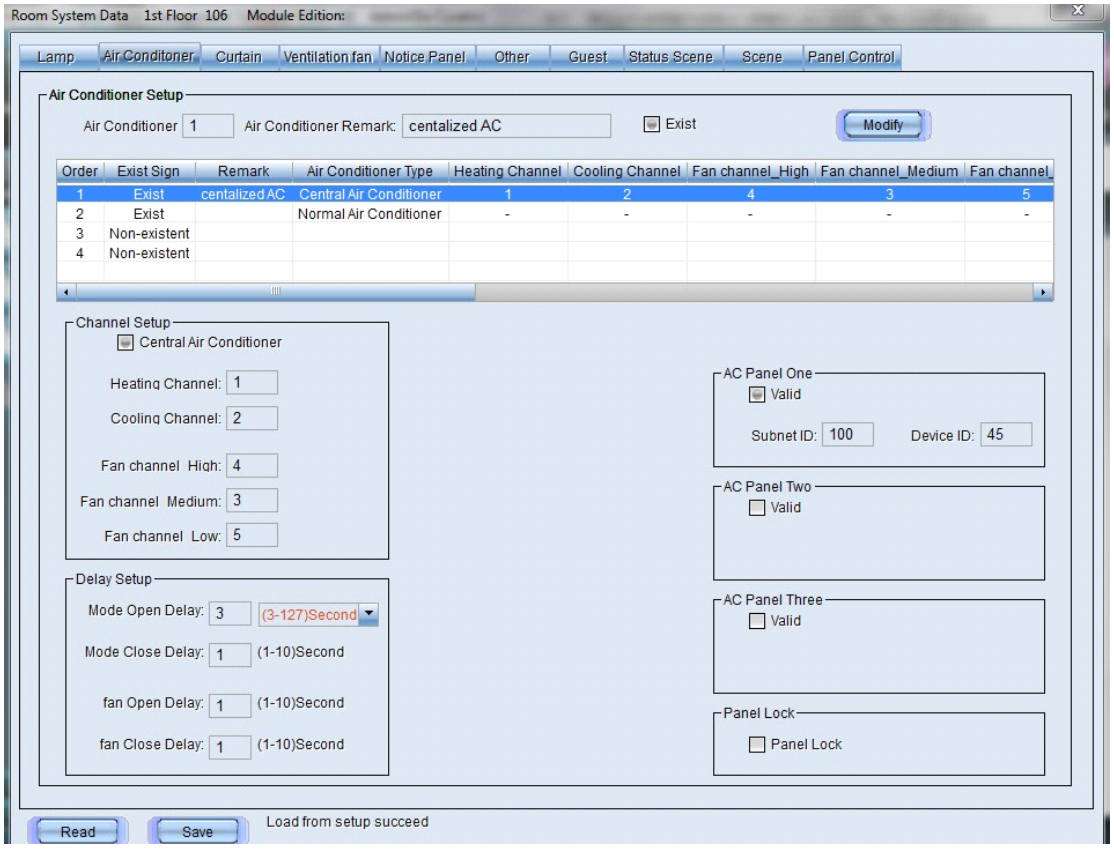
3.5.1 "Lamp" tab



3.5.1.1 Channel ID: channel ID of SB-DN-48HNET, 48 channels in total.

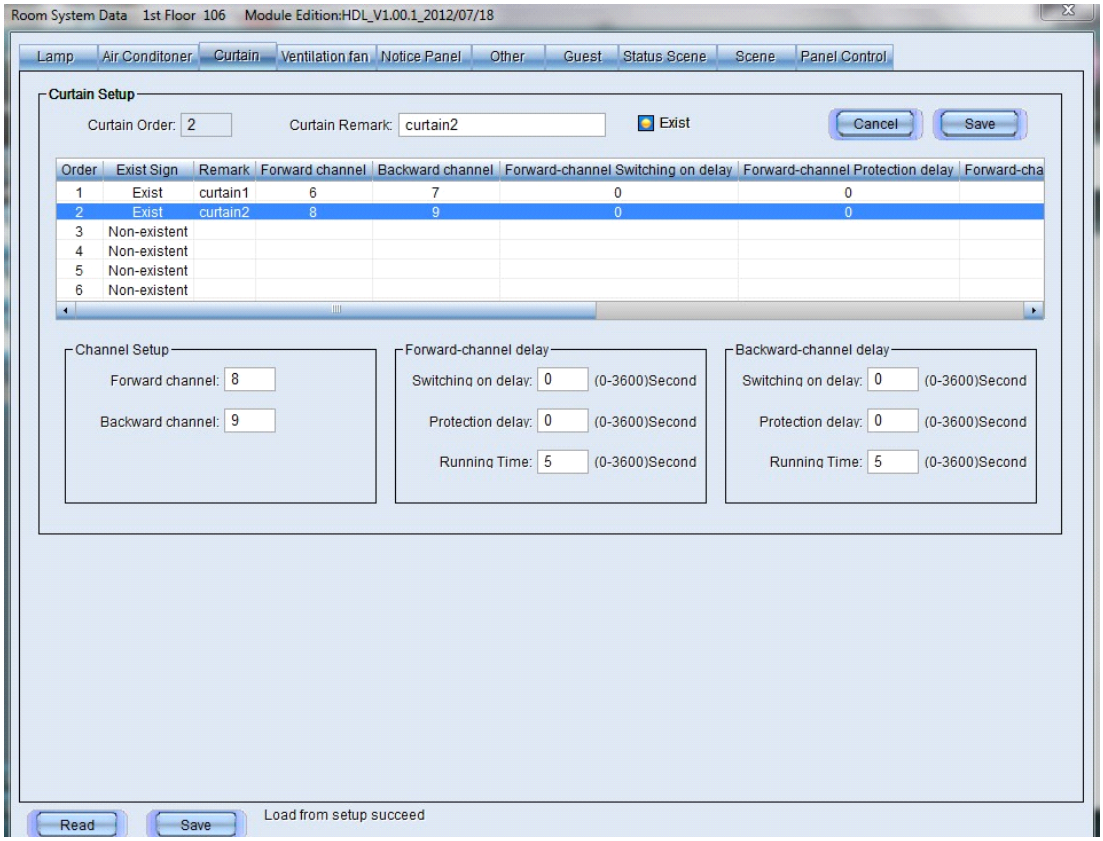
3.5.1.2 Lower limit: if brightness level is lower than the *Lower limit*, the channel will be shut down. Generally set it as "0%".
3.5.1.3 Higher limit: if brightness level is higher than the *Higher limit*, the channel will go to *Max level*. Generally set is as "100%". Should not be larger than *Max Level*.
3.5.1.4 Max Level: generally set it as "100%". Should not be less than *Higher limit*.
3.5.1.5 *Switching-on delay*: delay to switch on. This is used to prevent many channels switching together, so as to reduce the impact to system.
3.5.1.6 *Protection delay*: to make sure the time between channel's "last on" and "next on" is longer than the *protection delay*, so as to protect the load, e.g., the protection delay is set as "1 min", switch the channel from on to off, 4 seconds later, switch the channel on, the result is the channel will not switch on immediately but 56 seconds later.

3.5.2 "Air Conditioner" tab



SB-DN-48HNET supports up to 4 ACs, and each AC can be controlled by up to 3 AC Panels (thermostat). If it is centralized AC, you can assign some channels of affiliated module (see 1.2 Topology (room level)) to wire to FCU (fan coil unit). If it is centralized AC but you don't want to use the channel of affiliated module, or if it is a IR controller AC, then don't assign any channels, just input the ID of AC Panel (thermostat).

3.5.3 “Curtain” tab



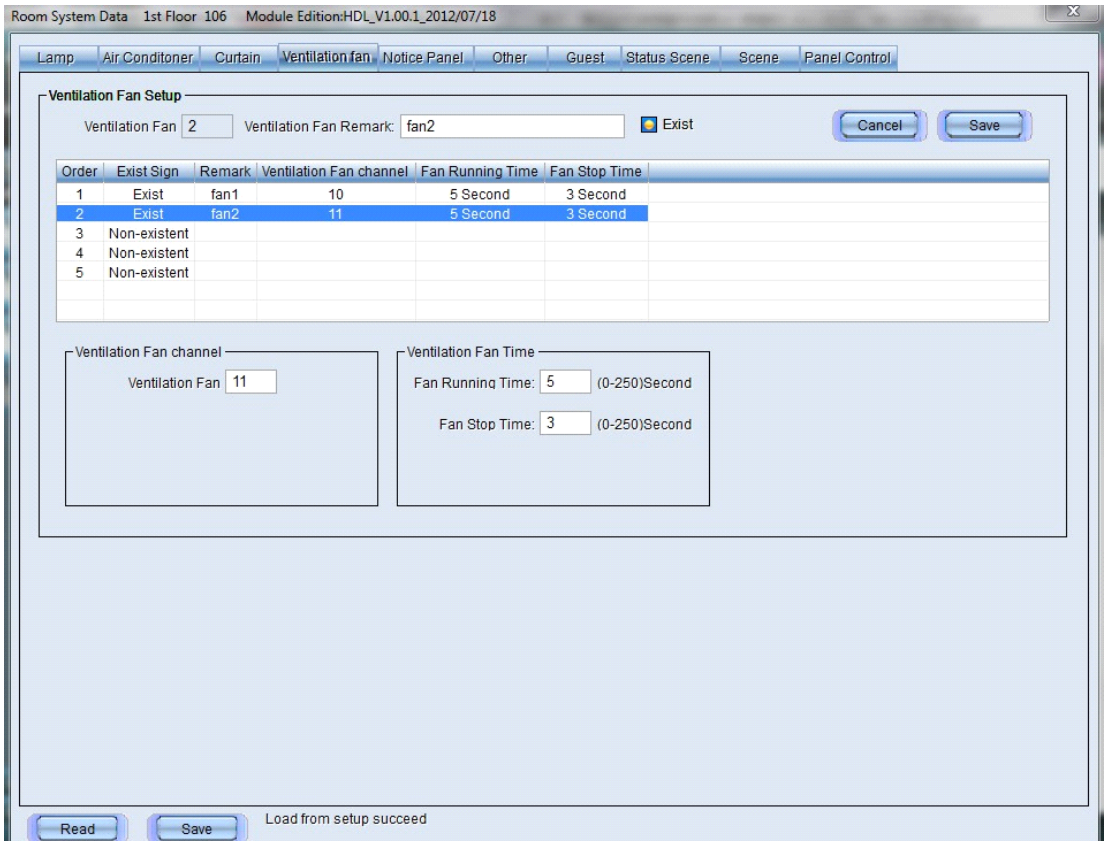
SB-DN-48HNET supports up to 6 curtains, each curtain needs to be assigned 2 channels.

Switching on delay: see explanation in 3.5.1.5

Protection delay: see explanation in 3.5.1.6

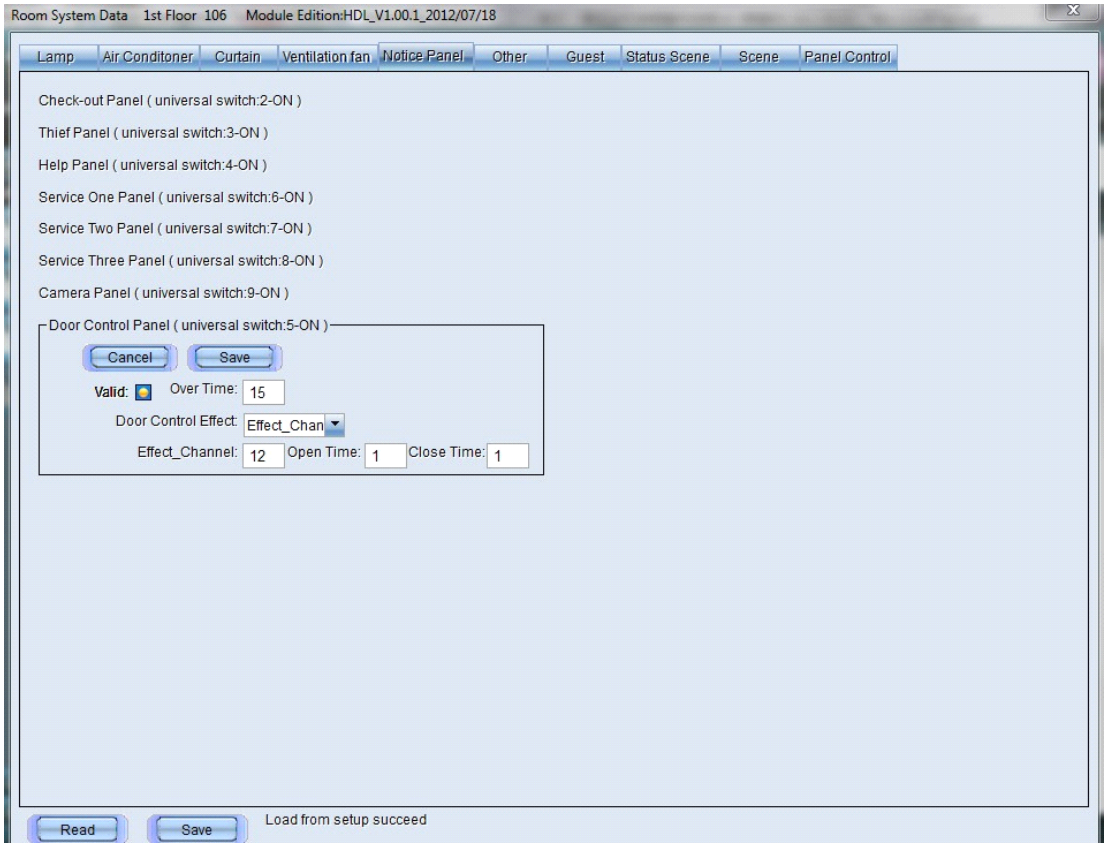
Running time: set the curtain stops automatically after the running time elapses.

3.5.4 “Ventilation fan” tab



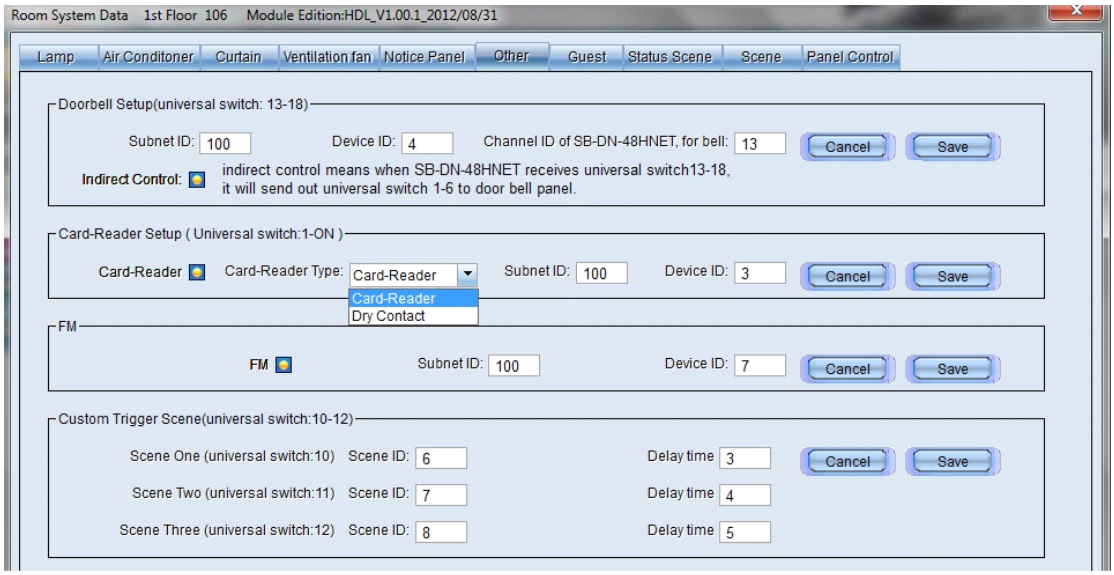
SB-DN-48HNET supports up to 5 ventilation fans, each fan needs to be assigned 1 channel. Set the running time and stop time like above screen shot shows, the fan will run like this: ON(5s)->OFF(3s)->ON(5s)->….

3.5.5 “Notice” tab



This tab shows when SB-DN-48HNET receives different "universal switch" commands, it will reports to IHMS software different customer requests. *Door control panel*: this function is used to remind customer if the door is open. If set it like the above screen shot shows, when the SB-DN-48HNET receives "universal switch 5-ON" command, it will start to count down from 15s, if it does not receive "universal switch 5-OFF" command until time elapses, channel12 will run (ON(1s)->OFF(1s)->…), this alarm can only be eliminated via IHMS software.

3.5.6 "Other" tab



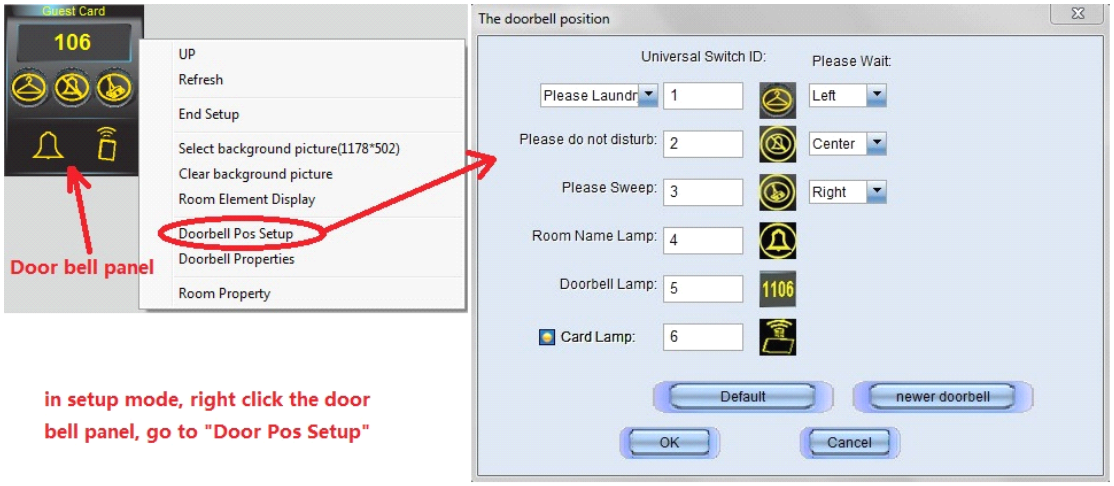
Doorbell Setup: Input the IDs of *door bell panel* and assign a channel to door bell.

HDL has several types of *door bell panel*, you can check the "universal switch" from *HDL-BUS configuration client* software,

e.g.:

UV Switch.1	Wait
UV Switch.2	DND
UV Switch.3	Clean
UV Switch.4	Room No.
UV Switch.5	Doorbell
UV Switch.6	RF Card

Adjust the universal switch in IHMS software (see below screenshot) according the universal switch list above.

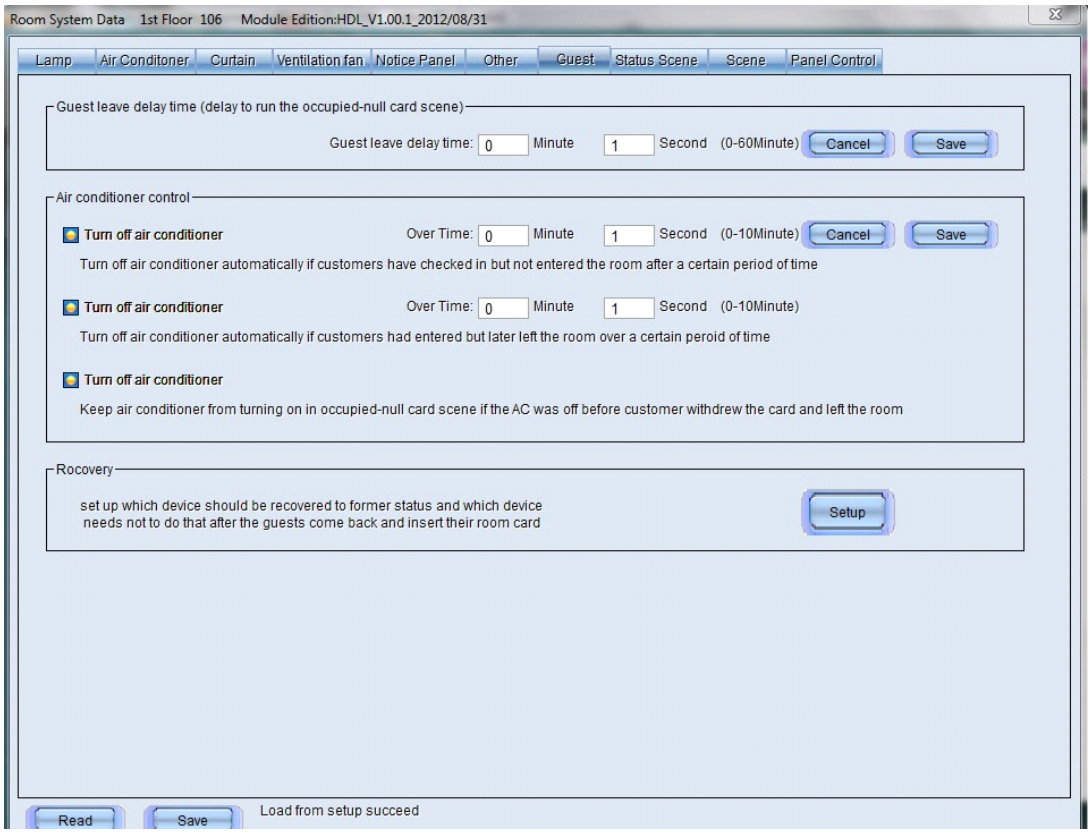


Go back to "control mode", click and check every icon on the door bell

panel, see if you can turn on and off the icons.

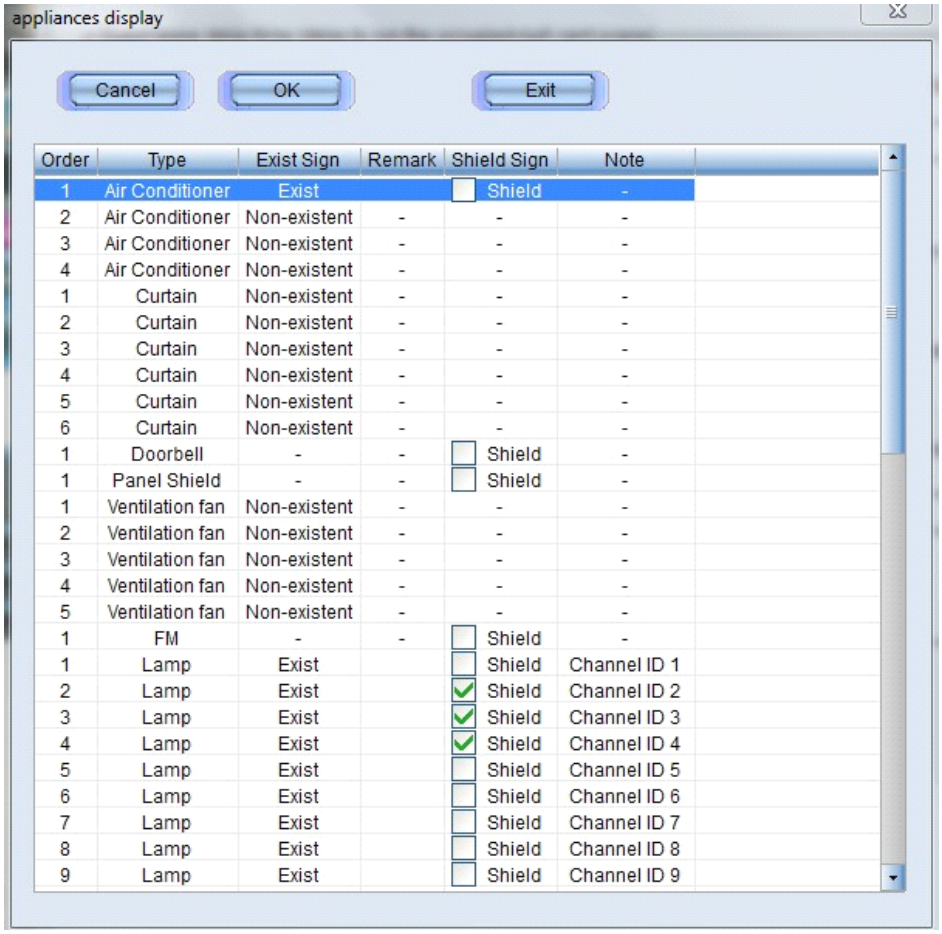
Card Reader Setup: after customer uses a key card to open the door and enter the room, there is card reader module for the key card to insert in, for power or special scene or others, according to the key card type and settings of card reader. If card reader type is set as "Dry Contact", SB-DN-48HNET and IHMS will take it as guest-type key card plugged in when receiving universal switch 1 on, key card unplugged when receiving universal switch 1 off.
Custom trigger scene: When receiving *universal switch 10-12 on* command, will trigger the assigned scene when the delay time elapses.

3.5.7 "Guest" tab



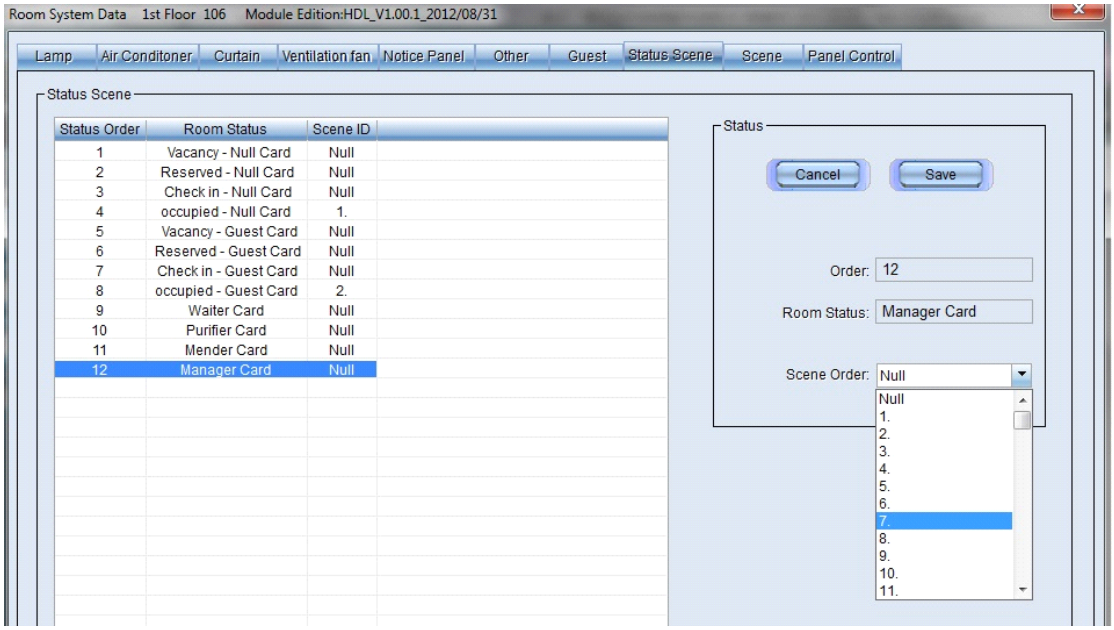
Guest leave delay time: when customer withdraws his/her key card from the card reader module and goes out for shopping or something, SB-DN-48HNET will run the *occupied-null card* scene. (Here *occupied* means the rent status of room from customer inserts his/her key card first time till he/she checks out successfully. The *occupied* here does not mean the guest is in the room or not)

Recovery:



Generally, when customer withdraws the key card and goes out, the room will run occupied-null card scene, when customer goes back and insert the key card, the room will recover to the previous scene before the customer goes out, but you can disable this function by shielding them.

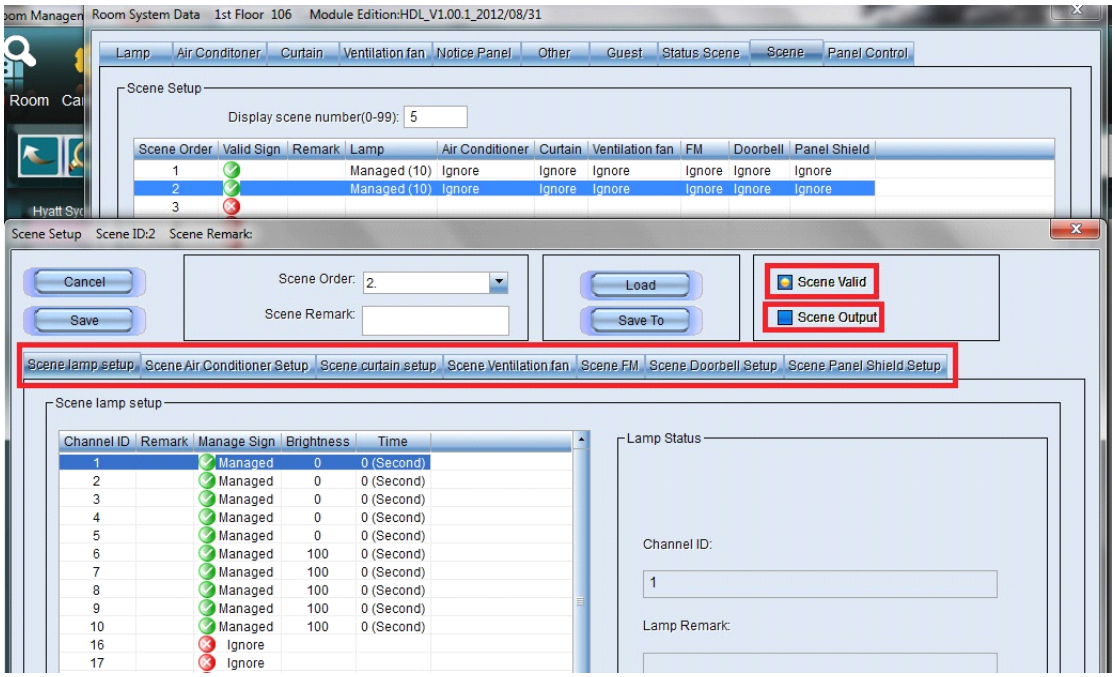
3.5.8 "Status Scene" tab



SB-DN-48HNET can switch to and run different scenes according to rent status and key card types.

(Here *occupied* means the rent status of room from customer inserts his/her key card first time till he/she checks out successfully. The *occupied* here does not mean the guest is in the room or not)

3.5.9 "Scene" tab



You can setup up to 99 scenes, in which you can configure lamps, air conditioner, curtain, ventilation fan, FM radio, corridor panel and enable/disable some "button" module (to use "Scene Panel Shield Setup", you need to set it up in "Panel Control" (3.5.10) first).

Scene Valid: to enable or disable the scene.

Scene Output: to see the scene running synchronously when you are setting up the scene.

PS: how to recall a scene of SB-DN-48HNET from "button" panel?

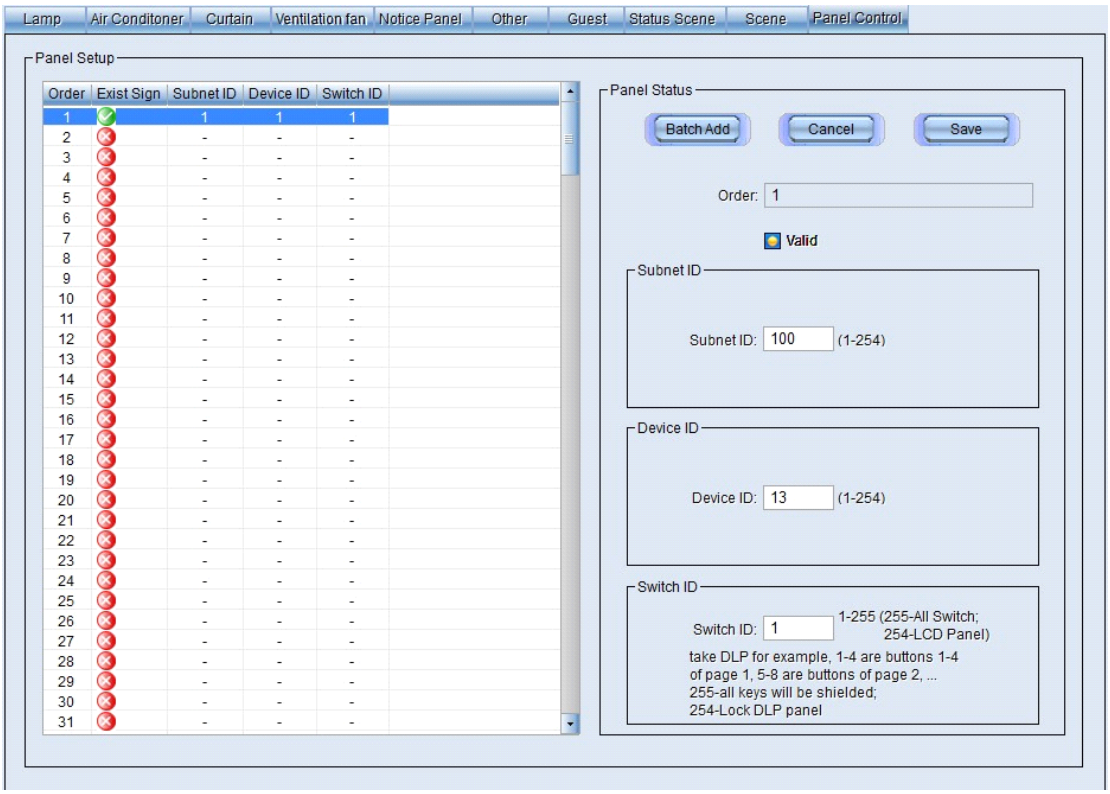
Recall scene 7:

Object no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Running time(mm ss)	Dimmer
1	100	100	Scene switch	7(Area no.)	7(Scene no.)	N/A	N/A

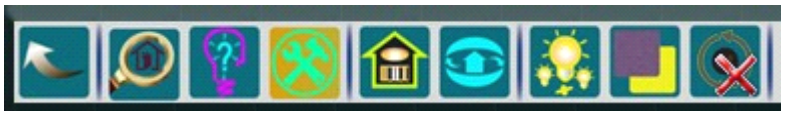
Recall scene 1:

Object no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Running time(mm ss)	Dimmer
1	100	100	Scene switch	1(Area no.)	1(Scene no.)	N/A	N/A

3.5.10 "Panel Control" tab



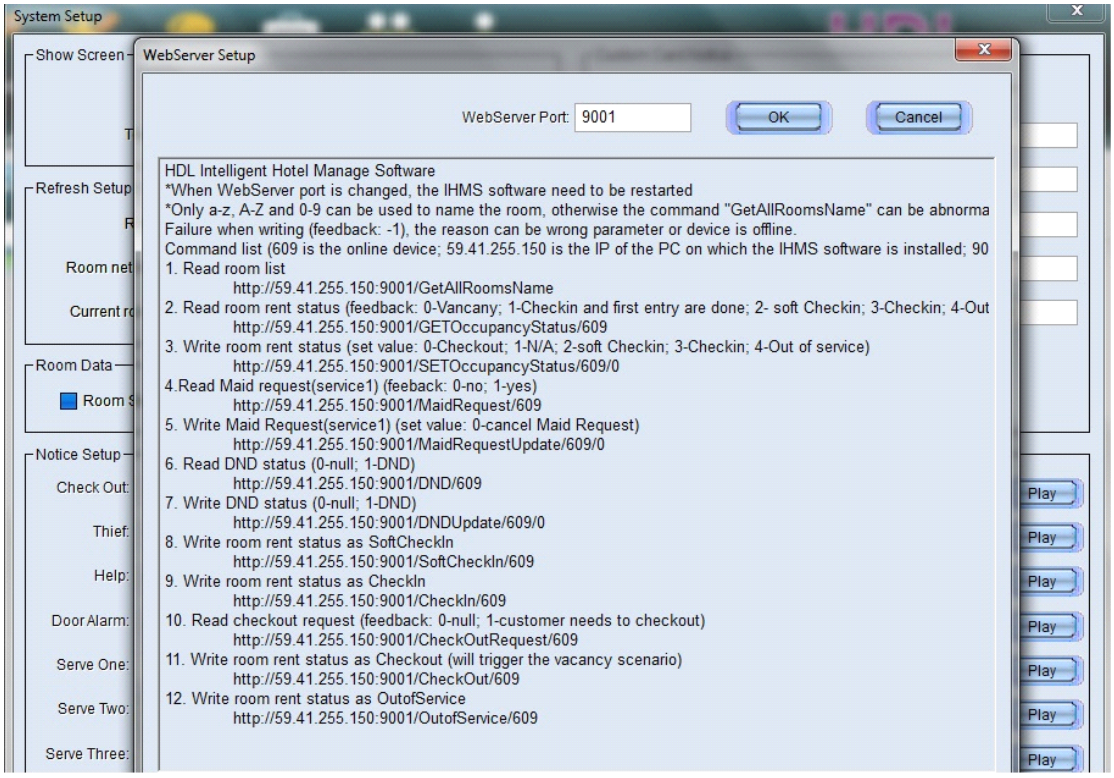
4. Monitor and Control



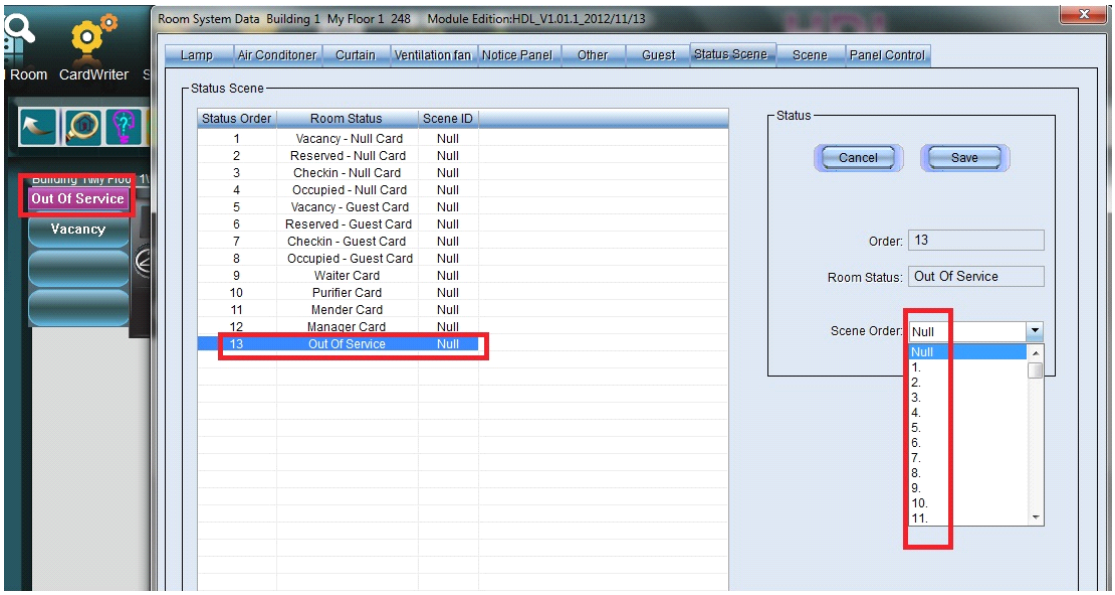
Click  to get into view mode, click  to get into control mode.

Web server feature:

Using internet browser, like IE, Chrome, Opera, you can access the IHMS software, the command format is listed as below:



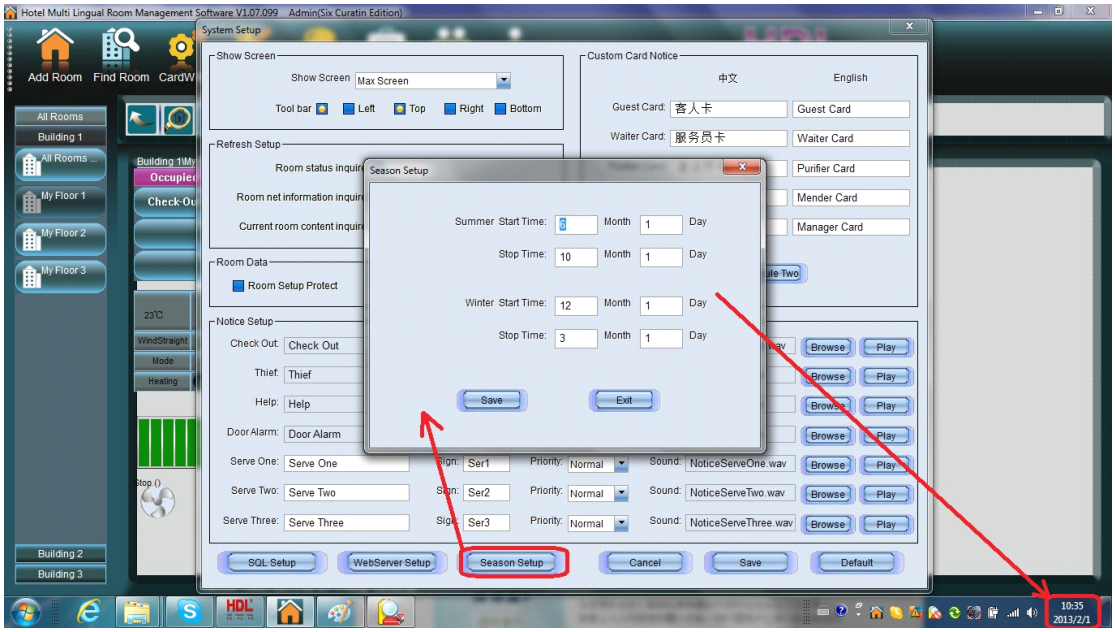
New room status – *Out of Service*. e.g., now the room needs to be re-decorated, then you can set the room status as *Out of Service* and select a "all off" scene for it, so that when you set this room as *Out of Service*, all devices will be powered off.

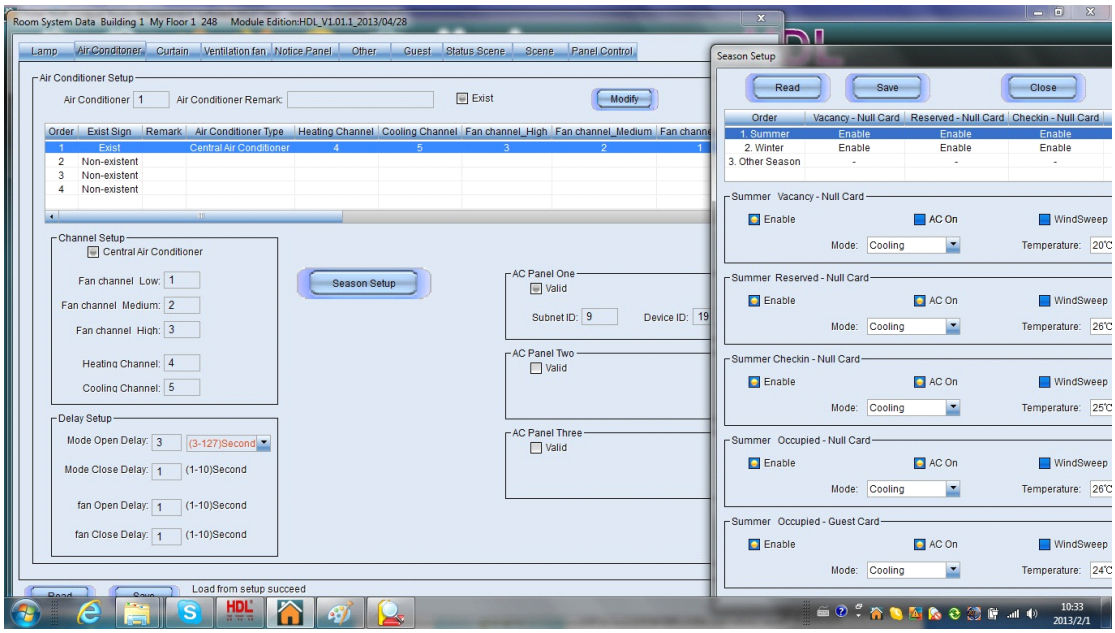


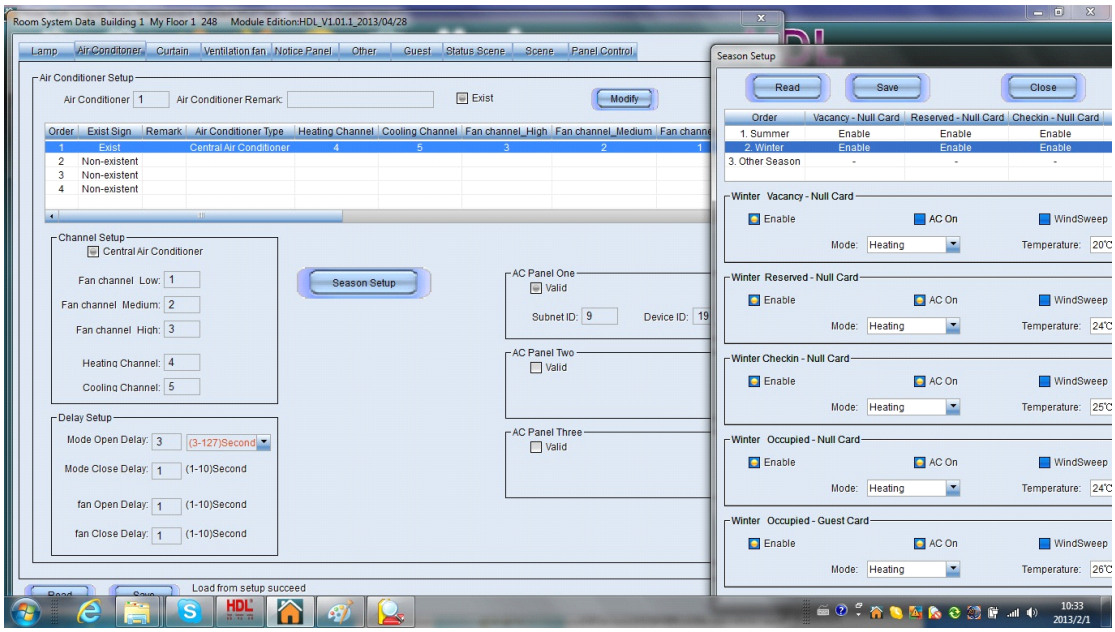
New function - AC season control

IHMS software can identify different seasons according to the PC time, and sends the season message to the Hotel Host, so the Hotel Host will run the corresponding AC settings.

If disable the AC season control function, the Hotel Host will control the AC based on the settings in the "Status Scene"; if enable it, the Hotel Host will control the AC based on the settings in the "Season Setup".

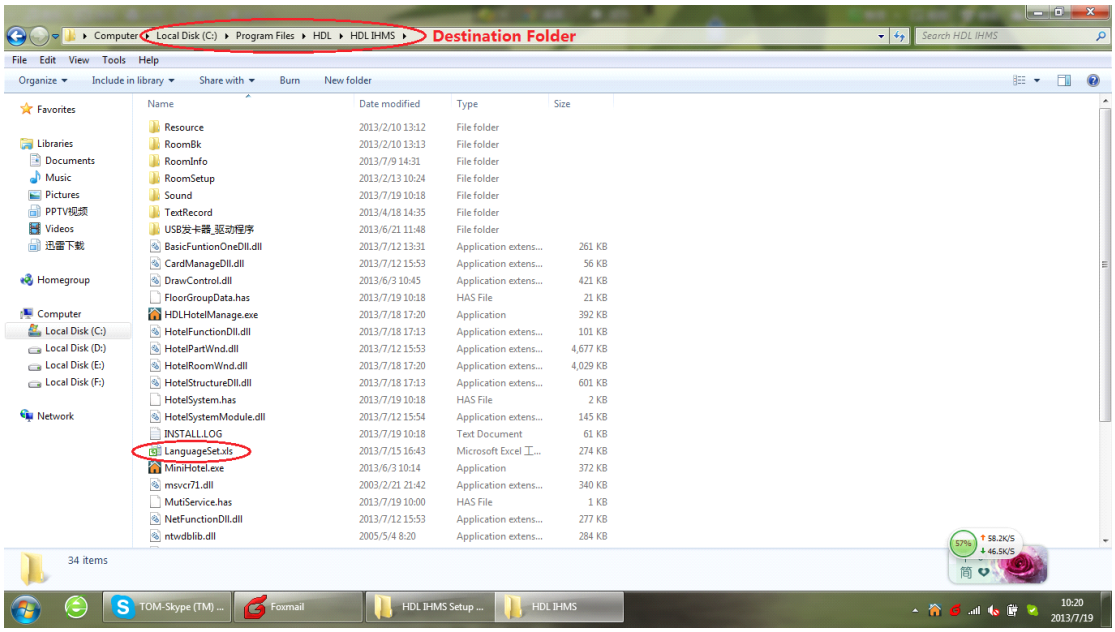


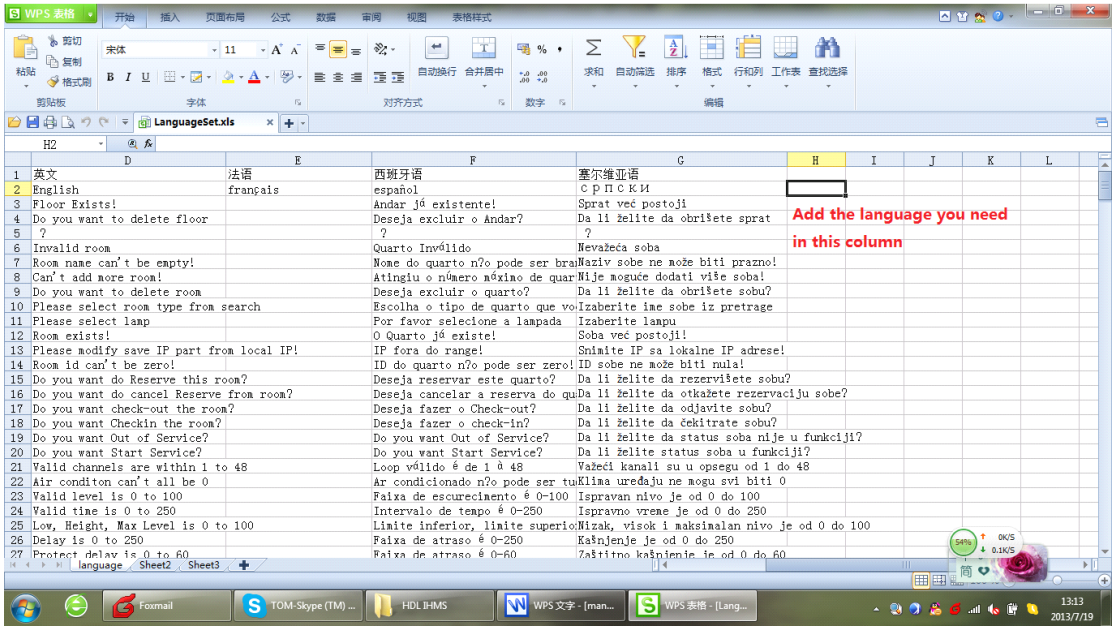


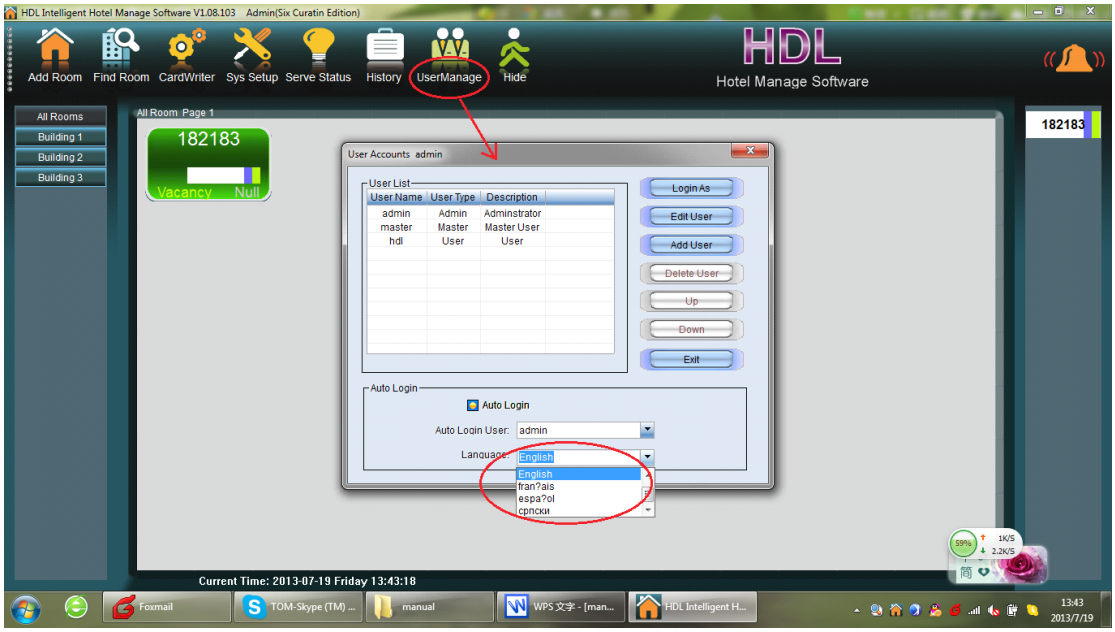


New feature - Setup new language

For this version of software, there will be an EXCEL table(LanguageSet.xls) under the installation path. The users can add new language in this table. When re-run the software, they can choose the language they want.




LanguageSet.xls
Add the language you need
in this column


HDL Intelligent Hotel Manage Software V1.08.103 Admin(Six Curatin Edition)
Add Room
Find Room
CardWriter
Sys Setup
Serve Status
History
UserManage
Hide
HDL
Hotel Manage Software
All Rooms
Building 1
Building 2
Building 3
All Room Page 1
182183
Vacancy Null
User Accounts admin
User List
User Name
User Type
Description
admin
Admin
Adminstrator
master
Master
Master User
hdl
User
User
Login As
Edit User
Add User
Delete User
Up
Down
Exit
Auto Login
Auto Login User:
admin
Language:
English
English
fran?ais
espa?ol
српски
Current Time: 2013-07-19 Friday 13:43:18