



Manual for SMART-BUS WinCE App V1.5 (7" Wall Touch Screen)

Created Date: Sep 14, 2010
Modified Date: Nov 13, 2010
Prepared by: Mendel Lin
Email: MendeLLin88@gmail.com

Content		
Chapter	Title	Start page
A	Install App to 7" wall touch screen	3
B	Buy License and Register App	6
C	Install configuration tool "SQLiteExpertPersSetup for windows" on your computer	7
D	Open database "database.db3"	8
E	Project name settings	12
F	What systems do you have in your project?	13
G	Whole house/ Floors/Areas settings	14
H	Lighting settings	16
I	HVAC settings	22
J	Macro Actions button Settings	23
K	Music settings	34
L	Shade settings	36
M	Security settings	40
N	IP Camera settings	41
Z	Copy your database to 7" touch screen and Replace the old one	43

A. Install App to 7" wall touch screen

Suppose to you have already got the SMART-BUS Automation App for wince 7" touch screen from us, you need copy all App files from your computer to 7" touch screen. There are some steps you need to follow below:

We strongly recommend you have a computer with WXP system (not win7/vista) , because WXP is very easy to access shared files from wince 7" touch screen, but win7/vista has problem to access shared files from wince 7" touch screen.

Step1: Create new folder "SMART-BUS Automation" on touch screen

On 7" touch screen, go to "My computer" ->"NandFlash", If folder "SMART-BUS Automation" does not exist, please create it with name "SMART-BUS Automation"

Step2. Make sure that your computer's IP address and 7" touch Screen's IP address is same IP Class

For example:

Suppose to you are using IP Class C,

Your computer's IP address: 192.168.0.10

7" touch screen's IP Address: 192.168.0.30

The parts of Red color should be same

If you are using other IP Class, like Class A, B, Please reference to some other information.

Step3. Make sure the connection between 7" touch Screen and your computer is good:

Ping 7" touch screen's IP Address from your computer.

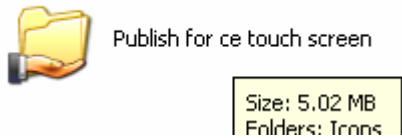
```
C:\Documents and Settings\Mendel Lin>ping 192.168.0.50 -t

Pinging 192.168.0.50 with 32 bytes of data:

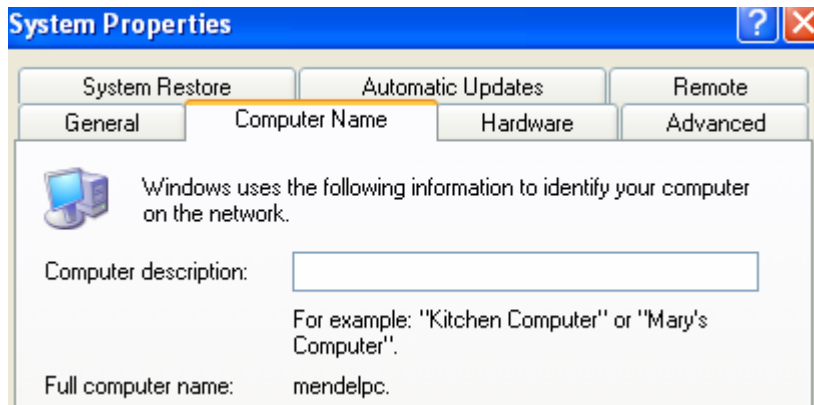
Reply from 192.168.0.50: bytes=32 time<1ms TTL=128
Reply from 192.168.0.50: bytes=32 time<1ms TTL=128
Reply from 192.168.0.50: bytes=32 time<1ms TTL=128
```

If got reply from 7” touch screen like above, it means that the connection is ok.

Step4. Share the folder on your computer which you are going to copy to 7” touch screen



Step5. Check your computer name and write it down on paper, not IP address



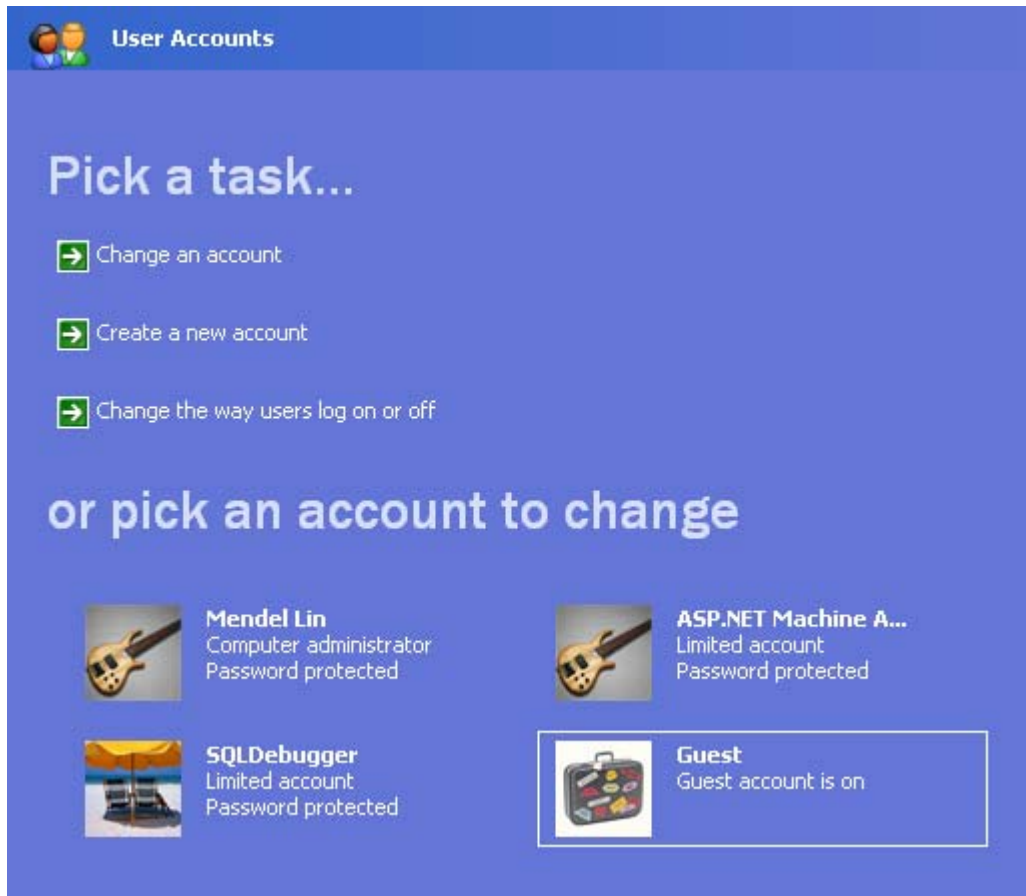
The computer name above is mendelpc

Step6. Go to 7” touch screen, Open “my computer”, Type \\YourComputerName on the address bar, Press “Enter”, you will access the shared folder of your computer

For example:
Suppose to your computer name is: Men

You need type `\\Men` on address bar of 7” touch screen, and then press “Enter”, you will see your shared files

Make sure your guest account is on, otherwise you will be requested to enter username and password to access shared folder.



Step7. Copy all files of App from the shared folder to the 7” touch screen.

You need to copy all the files of “SMART-BUS Automation” folder from your computer under `\\NandFlash\SMART-BUS Automation` on 7” touch screen; you can not save the files to anywhere else.

On 7” touch screen, open “My computer”, open folder “NandFlash”, Open folder “SMART-BUS Automation “you created before, then Paste all files.

Until now, you have done the installation; you can go to run the App.

B. Buy License and Register App

After installation, in 7" touch screen, open "My computer" -> "NandFlash" -> "SMART-BUS Automation", run the App "SMART-BUS Automation.exe"

If you did not register app before, it will show registration page;

If you have already bought the license, just enter the license on the textbox, and then press button "Register" ;

If you did not buy the license, please read below to see how to buy it:

The license price of "SMART-BUS Automation for wince 7" touch screen" is **USD \$120**.

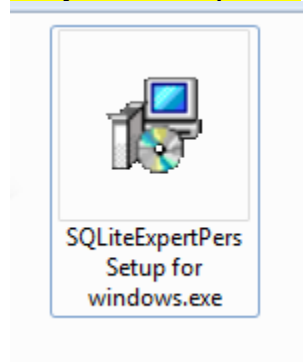
How to buy this app license for wince 7" touch screen:

1. Go to our website: www.SmartHomeUAE.com , menu "Ordering" -> "Purchase Form for software", download the PDF file
2. The PDF File will explain to you about the detail, after payment, you will be requested to send machine code which is appeared on registration page of App
3. After you order has been processed, we will send license to you by email.

If you want to know user interface and functions of this app, please go to watch this video on YouTube:

<http://www.youtube.com/user/digitcom#p/u/0/9wxS6zu0Z8s>

C. Install configuration tool “SQLiteExpertPersSetup for windows” on your computer



You can find out this software under the folder which we gave you.

If you do not have this software “SQLiteExpertPersSetup for windows”, you can download it from following link:

<http://www.smart-hdl.com/dealers-login.html>

After login, the path of files:

\Root\Smart-Bus\Softwares and Firmwares\Android Application\

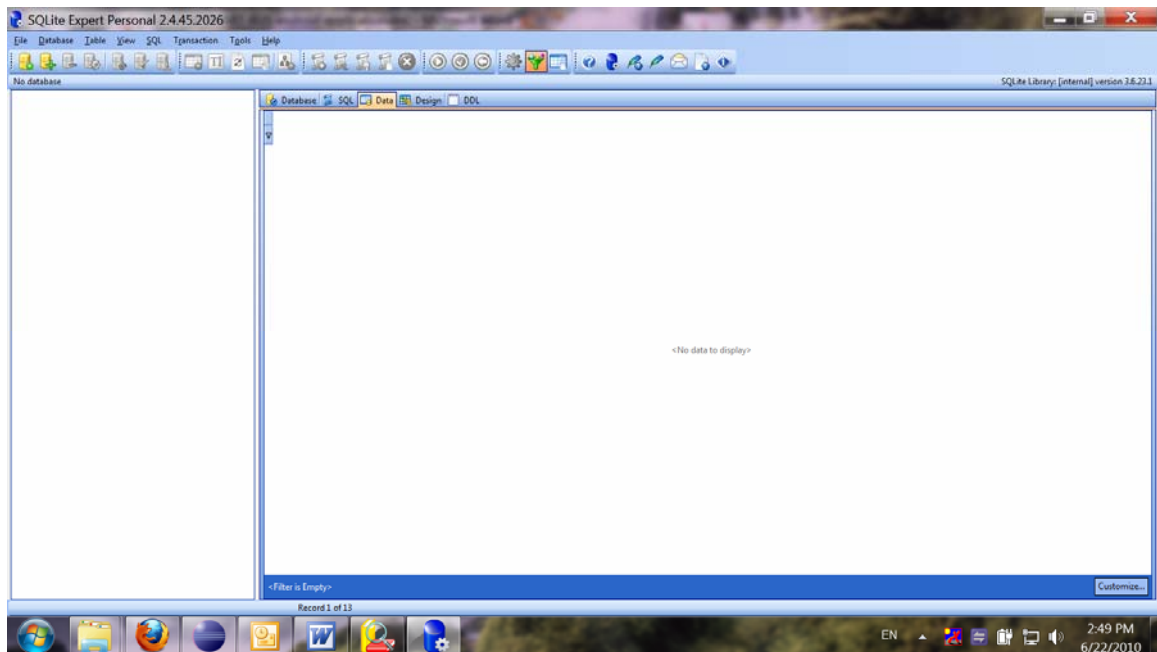
Q:Why do we need this tool?

We are using SQLite database to store the data on wince App, we need install this windows software “SQLiteExpertPersSetup for windows.exe” on your computer so that we can make the configurations.

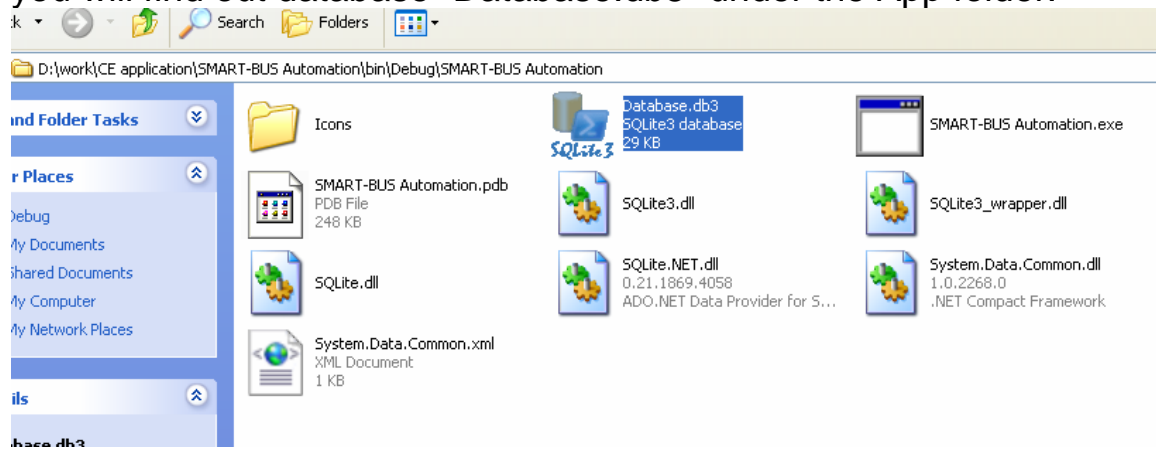
D. Open database “database.db3”

Before you make any modification, please backup database “Database.db3”

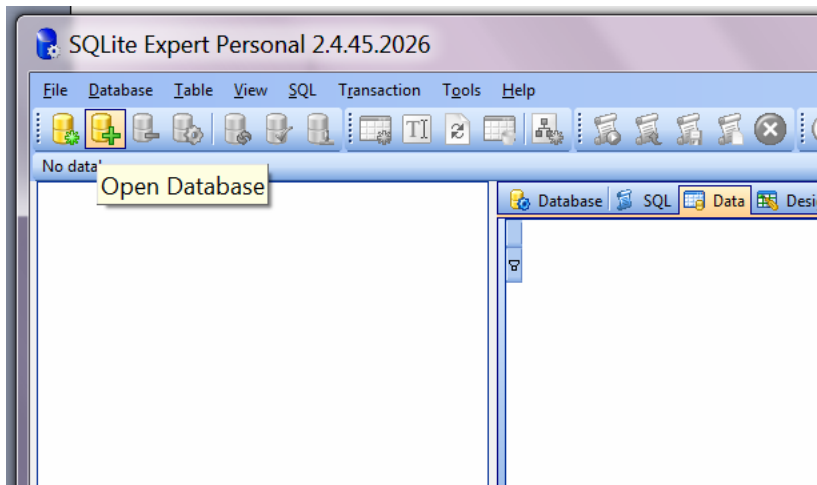
After you install the software “**SQLiteExpertPersSetup for windows.exe**”, you will find out the shortcut on your computer’s desktop, run it.



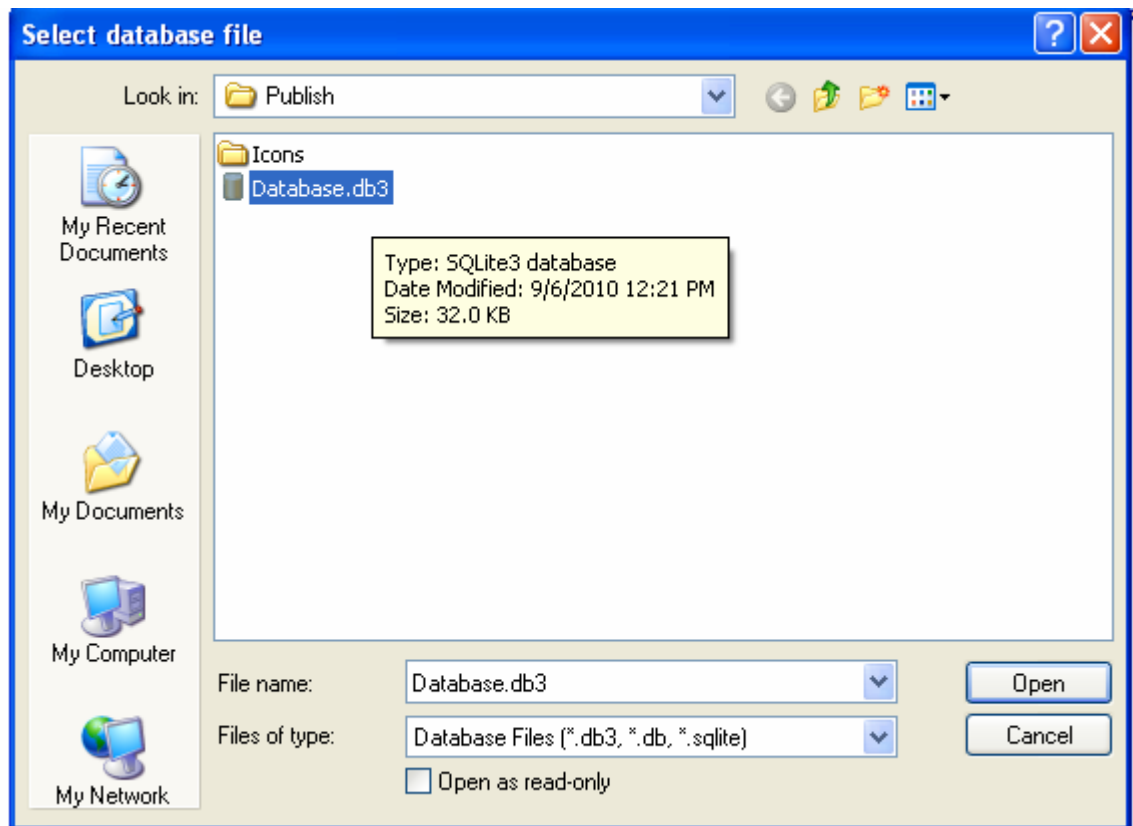
Open database “Database.db3”
you will find out database “Database.db3” under the App folder.



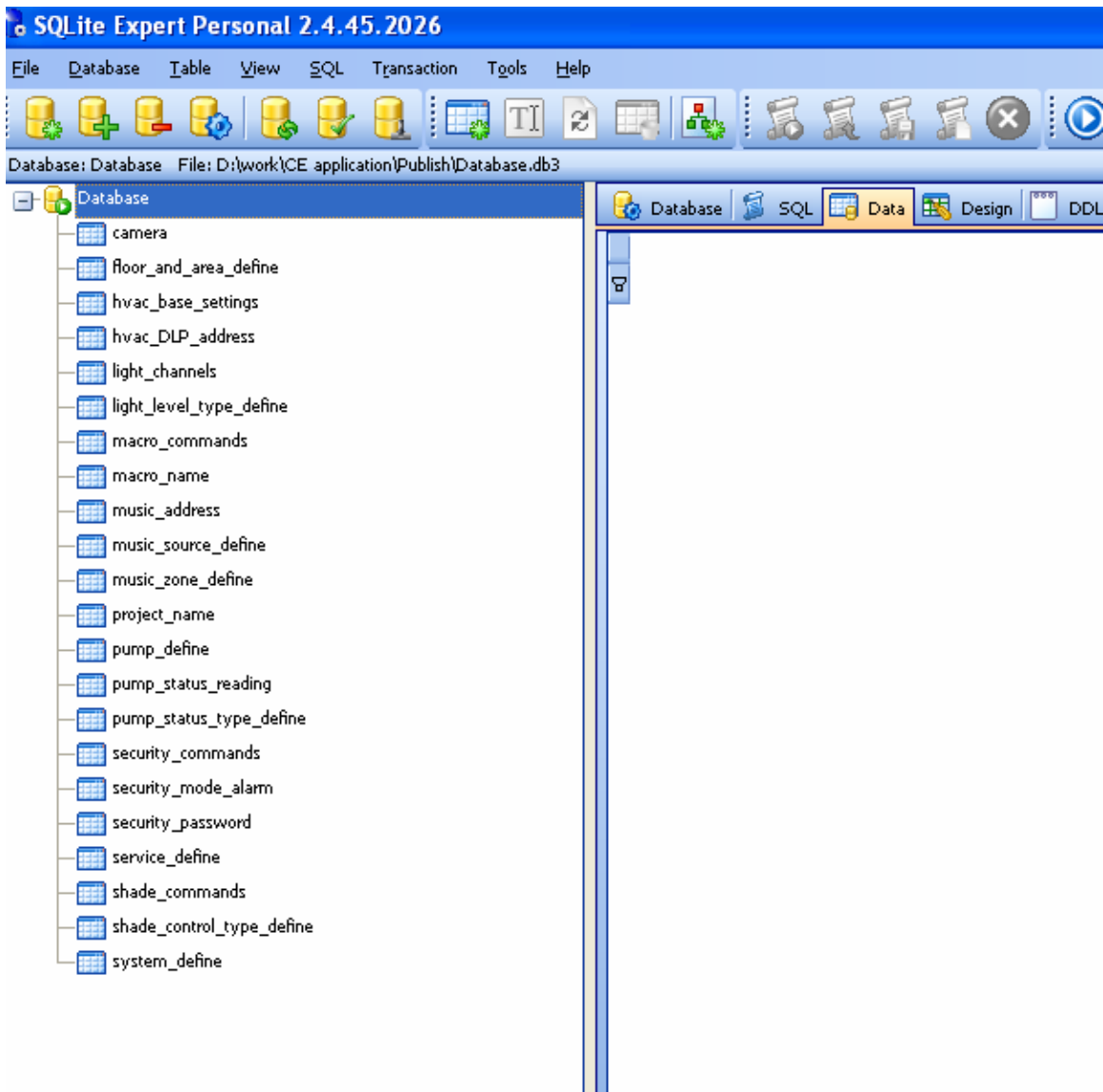
On the software “SQLite Expert Personal “, click the button “Open Database” on the toolbar



Choose the file “database.db3”



You will view all the tables of this database



From now on, you can start to make configuration.

Before we make the configuration on the database, please

Do not change the structure of database.

Do not delete any table

Do not change any table name

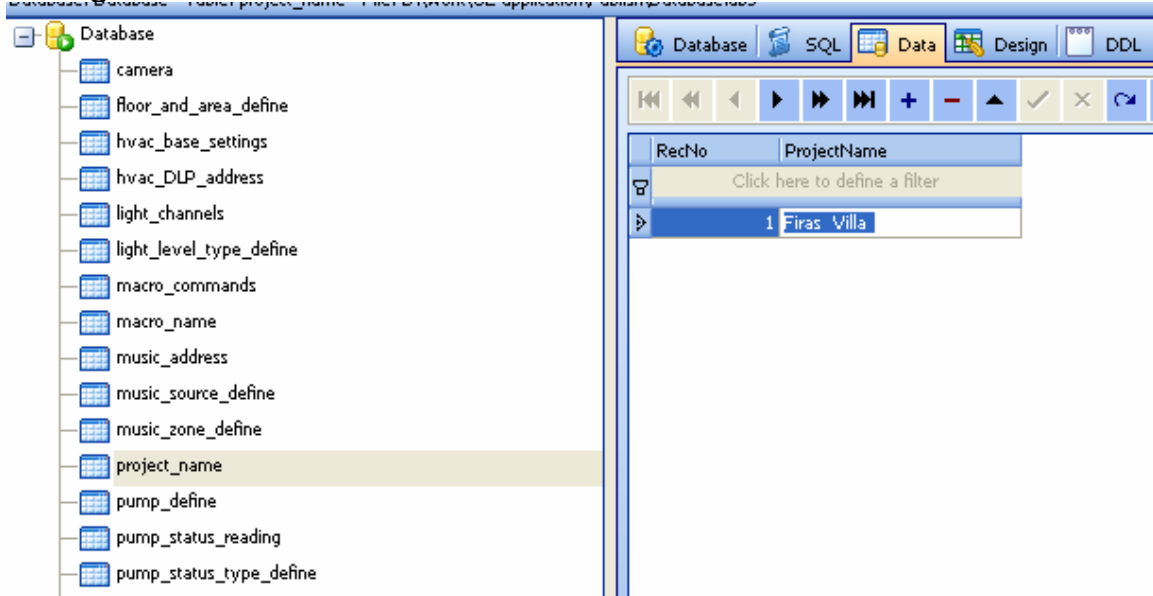
Do not add/change/delete any fields of tables

We just need add/edit/delete data on the tables.

E. Project name settings

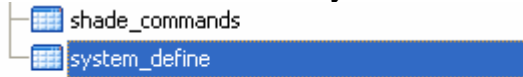
Each project has different name, such as “Jame’s Villa”, “Tom’s Villa” and so on .

Select table “project_name” on the left side, modify ProjectName on the right side.



F. What systems do you have in your project?

Select the table “system_define” on the left side



You will see the system definition on the right side

RecNo	SystemID	SystemName	SequenceNo	IconNormalName	IconSelectedName	IsVisible
Click here to define a filter						
1	1	Lighting	2	lights_button.JPG	lights_button_selected.JPG	1
2	2	HVAC	3	hvac_button.JPG	hvac_button_selected.JPG	1
3	3	Music	4	music_button.JPG	music_button_selected.JPG	1
4	4	Security	6	security_button.JPG	security_button_selected.JPG	1
5	5	Macro Actions	1	macro_button.JPG	macro_button_selected.JPG	1
6	6	shade	5	shade_open.jpg	shade_open_s.jpg	1
7	7	Camera	7	camera_button.JPG	camera_button_selected.JPG	1
8	8	Service	8	service.jpg	service_selected.jpg	1
9	9	Pumps Status	9	Pump.jpg	Pump_selected.jpg	1

The default settings will show all the systems, but you can customize the systems depend on your real project.

IsVisible: Show/Hide system

1: show system

0: hide system

For example:

You do not have IP camera, Service and Pumps in your project, you want to hide them, you just set IsVisible=0 like following:

RecNo	SystemID	SystemName	SequenceNo	IconNormalName	IconSelectedName	IsVisible
Click here to define a filter						
1	1	Lighting	2	lights_button.JPG	lights_button_selected.JPG	1
2	2	HVAC	3	hvac_button.JPG	hvac_button_selected.JPG	1
3	3	Music	4	music_button.JPG	music_button_selected.JPG	1
4	4	Security	6	security_button.JPG	security_button_selected.JPG	1
5	5	Macro Actions	1	macro_button.JPG	macro_button_selected.JPG	1
6	6	shade	5	shade_open.jpg	shade_open_s.jpg	1
7	7	Camera	7	camera_button.JPG	camera_button_selected.JPG	0
8	8	Service	8	service.jpg	service_selected.jpg	0
9	9	Pumps Status	9	Pump.jpg	Pump_selected.jpg	0

H. Whole house/ Floors/Area settings

We will add all the floors and areas in your project.

For example:

How many floors do you have in your project?

How many areas do you have in your project? And what's the areas name?

Let's take a look the table "floor_and_area_define"

The screenshot shows a database management interface with a table named 'floor_and_area_define'. The table has the following columns: RecNo, FloorOrAreaID, Name, SequenceNo, HasLight, HasAC, HasShade, IsFloorOrWholeHouse, and HasFunctionOfShadeStop. The data rows are as follows:

RecNo	FloorOrAreaID	Name	SequenceNo	HasLight	HasAC	HasShade	IsFloorOrWholeHouse	HasFunctionOfShadeStop
1	255	Whole house	0	1	1	1	1	0
2	-1	Basement	1	1	1	1	1	0
3	0	Ground Floor	2	1	1	1	1	0
4	1	First Floor	3	1	1	1	1	0
5	2	Second Floor	4	1	1	1	1	0
6	3	Meeting Room	5	1	1	1	0	0
7	4	Reception	6	1	0	0	0	0

Structure definition of Table "floor_and_area_define"

Field Name	Remark	Value
FloorOrAreaID	Floor ID or Area ID it's very important for programming. It also will be use for other tables later	Number, it can be minus
Name	this is Floor name or Area Name; it will be show on to Floor/Area list on wince App.	
SequenceNo	Arranging the sequence of floor/Area, ex. You have 2 rooms ,bedroom and guest room, you want to show bedroom first , so you set	

	sequenceNo of bedroom 1 , sequenceNO of guest room 2 .	
HasLight	Whether has light in this floor/Area? 1: have 0: do not have	0 or 1
HasAC	Whether has AC in this floor/Area? 1: have 0: do not have	0 or 1
HasShade	Whether has shade in this floor/Area? 1: have 0: do not have	0 or 1
HasFunctionOfShadeStop	if has shade in current floor/area and shade can support stop function ,set 1, otherwise set 0	0 or 1

Suppose to your project is a villa, and this villa has basement, ground floor, first floor, second floor, We will add whole house and floors like following:

FloorOrAreaID	Name	Remark
255	Whole house	We recommend you use 255 for whole house
-1	Basement	We recommend you use -1 for basement
0	Ground floor	We recommend you use 0 for ground floor
1	First floor	We recommend you use 1 for first floor
2	Second floor	We recommend you use 2 for

		second floor
--	--	--------------

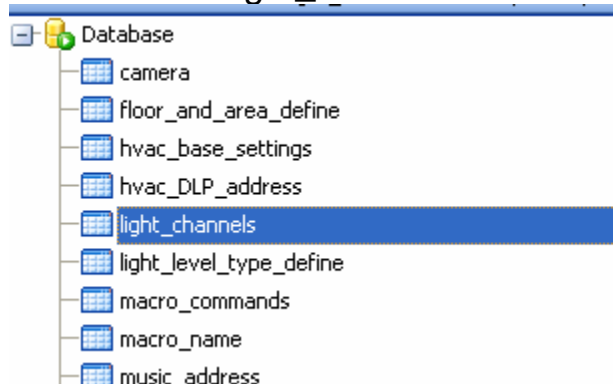
After you add floors and whole house, you can add all the areas you have in the project
for example:

FloorOrAreaID =3 Meeting Room

RecNo	FloorOrAreaID	Name	SequenceNo	HasLight	HasAC	HasShade	IsFloorOrWholeHouse	HasFunctionOfShadeStop
1	255	Whole house	0	1	1	1	1	0
2	-1	Basement	1	1	1	1	1	0
3	0	Ground Floor	2	1	1	1	1	0
4	1	First Floor	3	1	1	1	1	0
5	2	Second Floor	4	1	1	1	1	0
6	3	Meeting Room	5	1	1	1	0	0
7	4	Reception	6	1	0	0	0	0
8	5	Bed room in GF	7	1	1	0	0	0

I. Lighting settings

Select table "light_channels" on the left side



We will add all the lighting channels for each area/floor/whole house

Structure definition of table "light_channels"

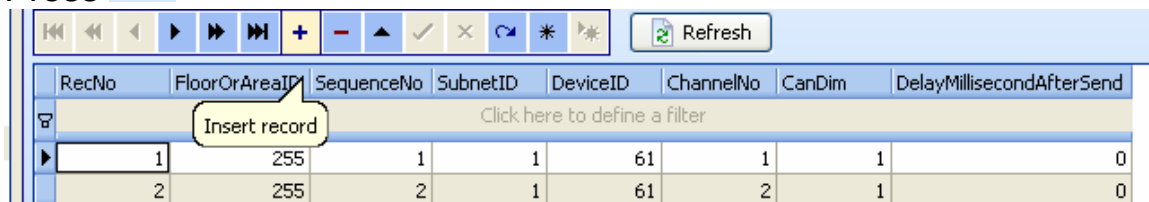
Field	Remark	Value
FloorOrAreaID	You will know the	Number

	“FloorOrAreaID” from the table “floor_and_area_define”, we recommend you print out the table “floor_and_area_define” or write them down on the paper.	
SequenceNo	the sequence of the command which to be executed.	Number
SubnetID	SubnetID is the address of Dimmer of Relay	0-254
DeviceID	DeviceID is the address of Dimmer of Relay	0-254
ChannelNo	Channel no of light	0-254
CanDim	0 or 1 (1: the light can be dimmed, 0 : the light can not be dimmed, only on/off)	0 or 1
DelayMillisecondAfterSend	1 second=1000 milliseconds You can set 0 here; the app will change to 100 milliseconds automatically. If you need more delay time, just set more that 100 milliseconds.	Start from 0

You strongly recommend you make the lights of each area first, because after you finish the area, it's very easy to add light to floor, just copy the data of areas which belong to the floor and change the “FloorOrArea ID” only

Add light

Press 



The screenshot shows a software interface with a toolbar at the top containing navigation icons (back, forward, search, etc.) and a 'Refresh' button. Below the toolbar is a table with the following columns: RecNo, FloorOrAreaID, SequenceNo, SubnetID, DeviceID, ChannelNo, CanDim, and DelayMillisecondAfterSend. The table contains two rows of data:

RecNo	FloorOrAreaID	SequenceNo	SubnetID	DeviceID	ChannelNo	CanDim	DelayMillisecondAfterSend
1	255	1	1	61	1	1	0
2	255	2	1	61	2	1	0

A tooltip labeled 'Insert record' is visible over the first row, and a text prompt 'Click here to define a filter' is located below the table header.

For example, we add lights to meeting room (ID=3)

4. Select the new record row, CTRL+V for paste

2	255	2	1	61	2	1	0
3	255	3	1	61	3	1	0
4	255	4					
5	255	5					
6	255	6					
7	255	7					
8	255	8					
9	255	9					
10	255	10					
11	255	11					
12	255	12					
13	255	13					
14	255	14					
15	255	15					
16	255	16					
17	255	17					
18	255	18					
19	255	19					
20	255	20					
21	255	21					
22	255	22					
23	255	23	1	65	1	0	0
24	3	19	1	64	1	1	0
25	3	20	1	64	2	1	0
26	3	21	1	64	3	1	0
*	<null>	<null>	<null>	<null>	<null>	<null>	<null>
27	3	23	1	65	1	0	0

Field Mapping

Please select the field mapping for the Paste operation:

Source Field	Destination Field
FloorOrAreaID	FloorOrAreaID
SequenceNo	SequenceNo
SubnetID	SubnetID
DeviceID	DeviceID
ChannelNo	ChannelNo
CanDim	CanDim
DelayMillisecondAfterSend	DelayMillisecondAfterSend

Auto Clear All OK Cancel

Press "OK"

5. Change the FloorOrAreaID for new room

31	19	1	64	1	1	0	
32	5	20	1	64	2	1	0
33	5	21	1	64	3	1	0
34	5	23	1	65	1	0	0

Modify Light

Click the cell

24	3	19	1	64	1	1	0
----	---	----	---	----	---	---	---

Or double click the row that you want to modify

Record Editor

Record 24

RecNo
24

FloorOrAreaID
3

SequenceNo
19

SubnetID
1

DeviceID
64

ChannelNo
1

CanDim
1

DelayMillisecondAfterSend


OK Cancel

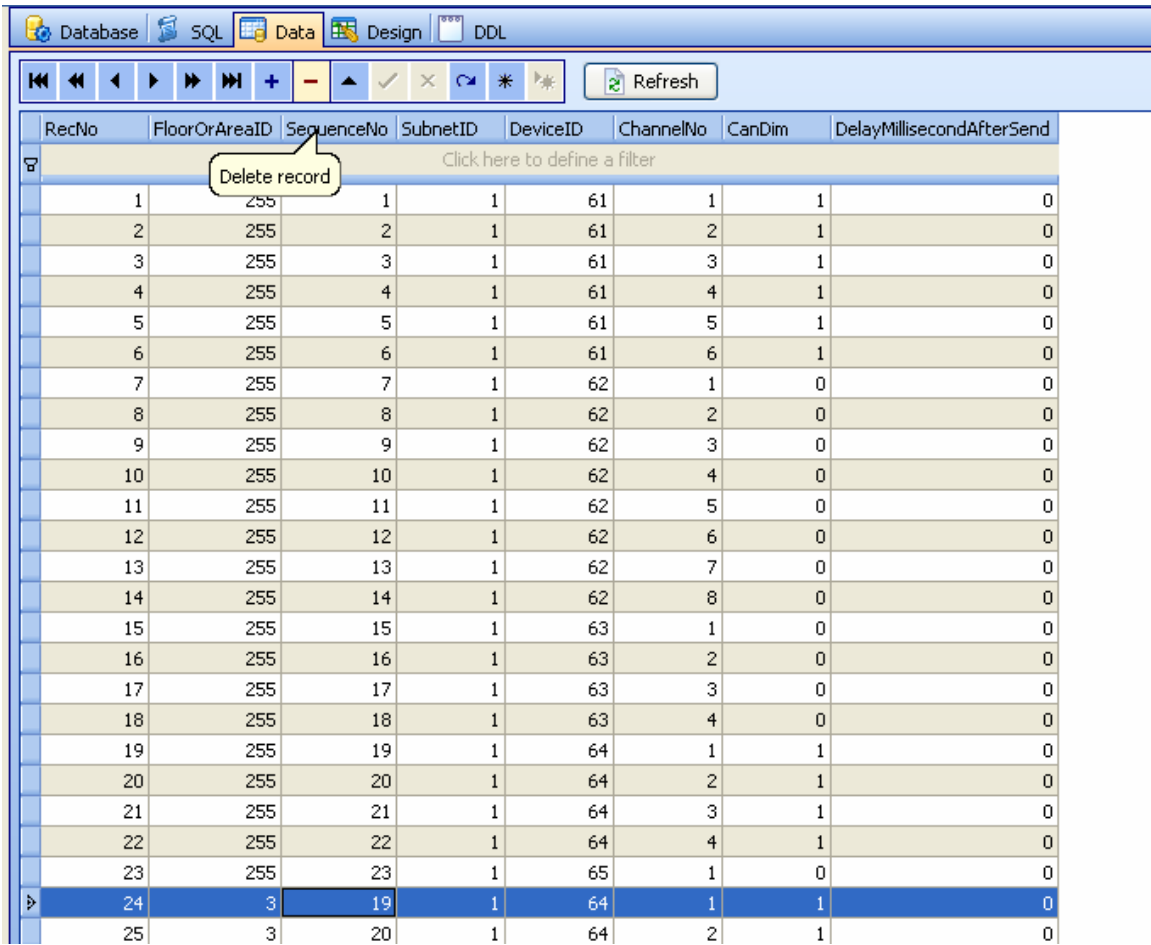
Delete the light

Select the row that you want to delete, right click and select "Delete selected record"

RecNo	RoomID	LightID	LightRemark	SubnetID	DeviceID	ChannelNo	BrightnessValue	CanDim	LightTypeID
Click here to define a filter									
1	1	1	surround	1	64	1	100	1	2
2	1	2	fluorescent	1	65	1			3

- Record Editor
- Text Editor
- Image Editor
- Hex Editor
- Set to NULL
- Switch to Cell select mode
- Set cells to value...
- Set cells to NULL
- Delete selected record

Or Click button  on the toolbar

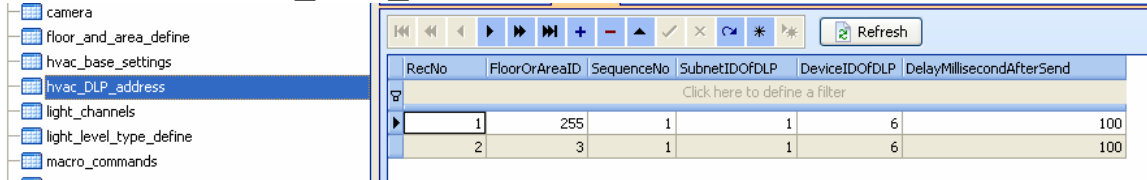


RecNo	FloorOrAreaID	SequenceNo	SubnetID	DeviceID	ChannelNo	CanDim	DelayMillisecondAfterSend
Click here to define a filter							
1	255	1	1	61	1	1	0
2	255	2	1	61	2	1	0
3	255	3	1	61	3	1	0
4	255	4	1	61	4	1	0
5	255	5	1	61	5	1	0
6	255	6	1	61	6	1	0
7	255	7	1	62	1	0	0
8	255	8	1	62	2	0	0
9	255	9	1	62	3	0	0
10	255	10	1	62	4	0	0
11	255	11	1	62	5	0	0
12	255	12	1	62	6	0	0
13	255	13	1	62	7	0	0
14	255	14	1	62	8	0	0
15	255	15	1	63	1	0	0
16	255	16	1	63	2	0	0
17	255	17	1	63	3	0	0
18	255	18	1	63	4	0	0
19	255	19	1	64	1	1	0
20	255	20	1	64	2	1	0
21	255	21	1	64	3	1	0
22	255	22	1	64	4	1	0
23	255	23	1	65	1	0	0
24	3	19	1	64	1	1	0
25	3	20	1	64	2	1	0

I. HVAC settings

we will control HVAC by DLP, so here we just need add address of DLP of each area/floor.

Select table “hvac_DLP_address” on the left side



The screenshot shows a database management tool interface. On the left, a tree view lists several tables, with 'hvac_DLP_address' selected. The main window displays a table with the following data:

RecNo	FloorOrAreaID	SequenceNo	SubnetIDOfDLP	DeviceIDOfDLP	DelayMillisecondAfterSend
1	255	1	1	6	100
2	3	1	1	6	100

Structure definition of table “hvac_DLP_address”

Field	Remark	Value
FloorOrAreaID	You will know the “FloorOrAreaID” from the table “floor_and_area_define”, we recommend you print out the table “floor_and_area_define” or write them down on the paper.	Number
SequenceNo	The sequence no of the command which to be executed.	Number
SubnetIDOfDLP	SubnetID is the address of DLP of this area	0-254
DeviceIDOfDLP	DeviceID is the address of DLP of this area	0-254
DelayMillisecondAfterSend	1 second=1000 milliseconds You can set 0 here; the app will change to 100 milliseconds automatically. It’s usually enough to delay 100 milliseconds, If you need more delay time, just set more that 100 milliseconds.	Start from 0

For example:

RecNo	FloorOrAreaID	SequenceNo	SubnetIDOfDLP	DeviceIDOfDLP	DelayMillisecondAfterSend
Click here to define a filter					
1	255	1	1	6	0
2	3	1	1	6	0

J. Macro Actions Settings

There are 2 steps to setup macro actions buttons

Step 1: add macro actions button name

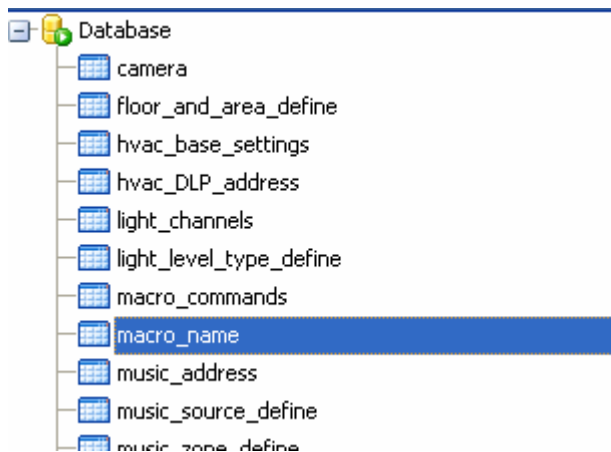
(Table "macro_name")

Step2: add commands for current macro action button

(Table "macro_commands")

Step 1: Macro actions button's name

Select the table "macro_name"



Structure definition of table "macro_name"

Field	Remark	Value
MacroID	The id of mood	Start from 1
MacroName	Macro Actions button's Name	
SequenceNo	Sequence No, it will arrange the sequence of show	Start from 0,

NormalIconName	Normal Icon Name please definition below	
SelectedIconName	Selected Icon Name please definition below	





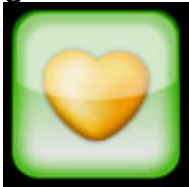
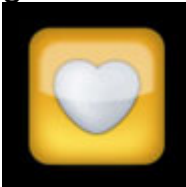
Definition of Icon of Macro Actions

here there are some icons you can use for macro Actions button, you need just copy the icon name



For example:

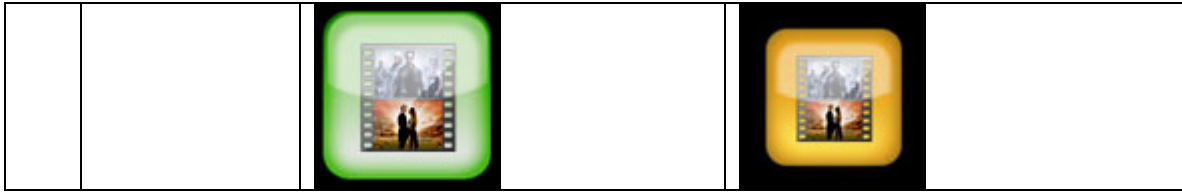
Copy "macro_bbq.jpg" for NormalIconName

Copy "macro_bbq_s.jpg " for SelectedIconName

S N	Macro Actions Button	NormalIconName	SelectedIconName
1	BBQ	macro_bbq.jpg 	macro_bbq_s.jpg 
2	Bed Time	macro_bed_time.jpg 	macro_bed_time_s.jpg 
3	Macro default Icon	macro_default_mood.jp g 	macro_default_mood_s.jp g 
4	Dining	macro_dining.jpg	macro_dining_s.jpg


			
5	Energy Saving	macro_energy_saving.jpg 	macro_energy_saving_s.jpg 
6	Goodbye	macro_good_bye.jpg 	macro_good_bye_s.jpg 
7	Listen music	macro_listen_music.jpg 	macro_listen_music_s.jpg 
8	Mafia	macro_mafia.jpg 	macro_mafia_s.jpg 
9	Meeting	macro_meeting.jpg 	macro_meeting_s.jpg 
10	Night	macro_night.jpg 	macro_night_s.jpg 
11	Party	macro_party.jpg	macro_party_s.jpg

			
12	Prayer	macro_prayer.jpg 	macro_prayer_s.jpg 
13	presentation	macro_presentation.jpg 	macro_presentation_s.jpg 
14	Relax	macro_relax.jpg 	macro_relax_s.jpg 
15	Romantic	macro_romantic.jpg 	macro_romantic_s.jpg 
16	Swimming	macro_swimming.jpg 	macro_swimming_s.jpg 
17	TV Time	macro_tv_time.jpg 	macro_tv_time_s.jpg 
18	Watch Movie	macro_watch_movie.jpg 	macro_watch_movie_s.jpg 



If above icons are not enough for you, you can make your own icons, after that copy your normal icons and selected icons under **\SMART-BUS Automation\Icons** on 7" touch screen, but please do not use some icon name then same as old icons, and do not replace old icons.

Add macro actions button

Press , then input the data like the following

RecNo	MacroID	MacroName	SequenceNo	NormalIconName	SelectedIconName
1	1	Night	1	macro_night.jpg	macro_night_s.jpg
2	2	Party	2	macro_party.jpg	macro_party_s.jpg
3	3	Romantic	3	macro_romantic.jpg	macro_romantic_s.jpg
4	4	Dining	4	macro_dining.jpg	macro_dining_s.jpg

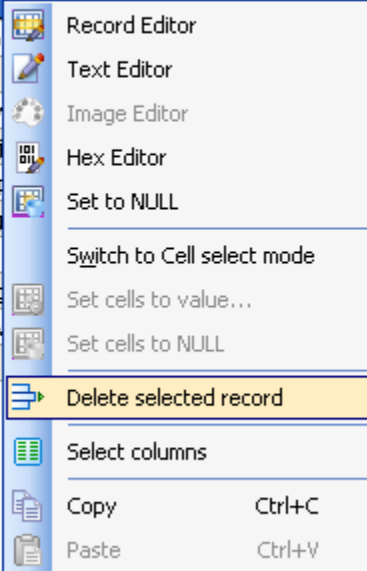
Modify Macro Actions Button's name

RecNo	MacroID	MacroName	SequenceNo	NormalIconName	SelectedIconName
1	1	Night	1	macro_night.jpg	macro_night_s.jpg
2	2	Party	2	macro_party.jpg	macro_party_s.jpg
3	3	Romantic	3	macro_romantic.jpg	macro_romantic_s.jpg
4	4	Dining	4	macro_dining.jpg	macro_dining_s.jpg
5	5	Movie	5	macro_watch_movie.jpg	macro_watch_movie_s.jpg
6	6	Goodbye	6	macro_good_bye.jpg	macro_good_bye_s.jpg
7	7	Swimming Time	7	macro_swimming.jpg	macro_swimming_s.jpg
8	8	TV Time	8	macro_tv_time.jpg	macro_tv_time_s.jpg
9	9	BBQ	9	macro_bbq.jpg	macro_bbq_s.jpg
10	10	Meeting	10	macro_meeting.jpg	macro_meeting_s.jpg
11	11	Energy Saving	11	macro_energy_saving.jpg	macro_energy_saving_s.jpg
12	12	Prayer	12	macro_prayer.jpg	macro_prayer_s.jpg

Delete macro actions button

select the row of table that you want to delete, then right click and select “Delete selected record”

RecNo	MacroID	MacroName	SequenceNo	NormalIconName	SelectedIconName
Click here to define a filter					
1	1	Night	1	macro_night.jpg	macro_night_s.jpg
2	2	Party	2	macro_party.jpg	
3	3	Romantic	3	macro_romantic.jp	
4	4	Dining	4	macro_dining.jpg	
5	5	Movie	5	macro_watch_mov	
6	6	Goodbye	6	macro_good_bye.j	
7	7	Swimming Time	7	macro_swimming.jp	
8	8	TV Time	8	macro_tv_time.jpg	
9	9	BBQ	9	macro_bbq.jpg	
10	10	Meeting	10	macro_meeting.jpg	
11	11	Energy Saving	11	macro_energy_sav	
12	12	Prayer	12	macro_prayer.jpg	



Step 2:

Add commands to current macro actions button

select the table “macro_commands”

Structure definition of table “macro_commands”

FieldName	Remark	Value
MacroID	You get know the MacroID from the table “macro_name”	Start from 1
CommandID	Command ID	Start from 0
SequenceNo	Sequence No, this is the sequence of your commands which to be executed	Start from 0
Remark		
SubnetID	Address of module	0-254

DeviceID	Address of module	0-254
CommandTypeID	Command type, see the define below	0-12
FirstParameter	It has different meaning depend on the field "CommandTypeID", see the define below	0-255
SecondParameter	It has different meaning depend on the field "CommandTypeID", see the define below	0-255
ThirdParameter	It has different meaning depend on the field "CommandTypeID", see the define below	0-65535
DelayMillisecondAfterSend	Delay time after sent current command. 1 second=1000 millisecond	Start from 0 , unit: Millisecond

The definition of Command Type

CommandTypeID	Name	Remark	FirstParameter	SecondParameter	ThirdParameter
0	Scene control		Zone No (0-254)	Scene No (0-254)	Unused (set 0)
1	Sequence Control		Zone No (0-254)	Sequence No (0-254)	Unused (set 0)
2	Universal Switch Control		Universal Switch ID (0-255)	Switch Control status (255:on 0: off)	Unused (set 0)
3	Invalid	Invalid command, it will not	Any value (0-255)	Any value (0-255)	Any value (0-65535)

		take any actions			
4	Single Channel Control		Channel No (1-254)	Brightness percentage (0 -100)	Running Time, unit: second (0 -3600)
5	Broadcast scene	Run the specific scene in all area of current module	Broadcast area (Must be set 255)	Scene No (0-254)	Unused (set 0)
6	Broadcast All channels	Control all the channels of current module	Broadcast all channels (Must be set 255)	Brightness percentage (0 -100)	Running Time, unit: second (0 -3600)
7	Curtain Control	Control curtain if you are using our curtain module	Curtain No (1-4)	Curtain Control Status (0: top 1:open 2:Close)	Unused (set 0)
8	Timer		Channel No	Control Status	Unused

	Control		(1-255)	(255: open 0 : close)	(set 0)
9	GPRS Control	Control our GPRS module (SMS module) , Before you use this GPRS command, You need use GPRS management software to make some configurations	Type ID (0: invalid 1: SMS Message)	GPRS Command No (0-255)	Unused (set 0)
10	Panel control		FirstParameter (TypeID)	SecondParameter (Value)	ThirdParameter (unused)
			0 (invalid)	0	0
			1 (enable/disable IR receive)	0: (disable) 1: (enable)	0

			function of DLP)		
			2 (enable/disable key lock of DLP)	0: disable key lock of DLP 1: enable key lock of DLP	0
			3 (Power on/off of Air condition)	0: (power off) 1: (power on)	0
			4 (Set cool temperature)	0-30 (cool settings temperature, you can see the temperature range from DLP of SBUS software)	0
			5 (FAN Speed)	0: (auto) 1: (High) 2: (Medium) 3: (low)	0
			6 (AC mode)	0: (Cool) 1: (Heat) 2: (FAN) 3: (Auto)	0
			7 (Set Heat temperature)	0-30 (heat settings temperature, you can see the temperature range from DLP of SBUS software)	
11	Security Mode control		Zone no (1-8)	Mode No Mo de	Unused (set 0)
				Remark	

				No		
				1	Vacation	
				2	Away	
				3	Night	
				4	Night with guest	
				5	Day	
				6	Disarm	
12	Security Alarm		Zone no (1-8)	Alarm No	Remark	Unused (set 0)
				Alarm No	Remark	
				1	vacation	
				2	Away	
				4	Night	
				8	Night with guest	
				16	Day	
				32	Siren	
				64	Power	
				128	Temperature	
				256	Fire	
				512	Gas	
				1024	Panic	
				2048	Emergency	
				4096	Current	

Add command to macro actions button

RecNo	MacroID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
1	1	1	1		1	61	6	255	80	0	0
2	1	2	2		1	62	6	255	100	0	0

Modify command of macro actions button

RecNo	MacroID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
1	1	1	1		1	61	6	255	80	0	0
2	1	2	2		1	62	6	255	100	0	0
3	1	3	3		1	63	6	255	0	0	0
4	1	4	4		1	64	6	255	80	0	0

Delete command of macro actions button

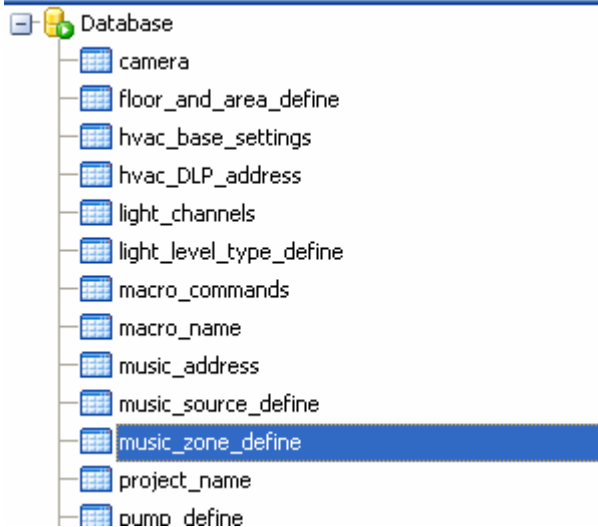
RecNo	MacroID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
1	1	1	1		1	61	6	255	80	0	0
2	1	2	2		1	62	6	255	100	0	0
3	1	3	3		1	63	6	255	0	0	0
4	1	4	4		1	64	6	255	80	0	0
5	1	5	5		1	65	4	1	100	0	0
6	2	1	1		1	61	6	255	100	0	0
7	2	2	2		1	62	6	255	100	0	0
8	2	3	3		1	63	6	255	100	0	0
9	2	4	4		1	64	6	255	100	0	0
10	2	5	5		1	65	4	1	100	0	0
11	3	1	1		1	61	6	255	50	0	0
12	3	2	2		1	62	6	255	0	0	0
13	3	3	3		1	63	6	255	0	0	0

K. Music settings

NUVO music is fully supported in this version V1.5, Z-Audio is not completely supported in this version, but it will be supported later.

K1. Music Zone

select table “music_zone_define” on the left side



Add Zone of Music

RecNo	ZoneID	ZoneName
1	1	Meeting Room
2	2	Reception
3	3	Manager
4	4	Khaled
5	5	Sweet
6	6	Sandra

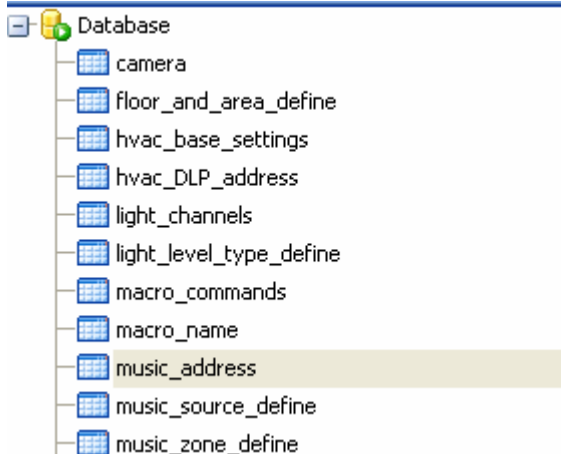
K2. Music source

RecNo	SourceNo	SourceName	SequenceNo
1	1	Source 1	1
2	2	Source 2	2
3	3	Source 3	3
4	4	unavailable 1	4
5	5	unavailable 2	5
6	6	unavailable 3	6

K3. Music address

we need one RS232 Module to connect to NUVO, here we just need set address of RS232 module, it's very simple.

Select table "music_address"



Add address of RS232 module

RecNo	SubnetID	DeviceID
1	1	10

L. Shade Settings

L1. Definition of Shade Control Type

RecNo	ShadeControlType	Remark
Click here to define a filter		
1	0	Stop Shade
2	1	Open Shade
3	2	Close Shade

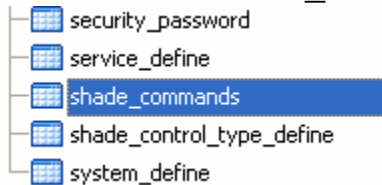
L2. Structure definition of table “shade_commands”

FieldName	Remark	Value
FloorAndAreaID	You get know it from the table “floor_and_area_define”	
ShadeControlType	See definition above	0-2
CommandID	Command ID	Start from 0
SequenceNo	Sequence No, this is the sequence of your commands which to be executed	Start from 0
Remark		
SubnetID	Address of module	0-254
DeviceID	Address of module	0-254
CommandTypeID	Command type, see the “ The definition of Command Type ” above	0-12
FirstParameter	It has different meaning depend on the field “CommandTypeID”,	0-255
SecondParameter	It has different meaning depend on the field “CommandTypeID”	0-255

ThirdParameter	It has different meaning depend on the field "CommandTypeID"	0-65535
DelayMillisecondAfterSend	Delay time after sent current command. 1 second=1000 millisecond	Start from 0 , unit: Millisecond

L3. Add Commands for Shade

Select table "shade_commands"



There are 2 command types for controlling shade, one is Universal Switch command, and another is Curtain Switch command.

If you are using Universal Switch command to control your shade, please see the definition below:

ShadeControlType: You can input the number 1-2

Open shade: 1

Close Shade: 2

CommandTypeID: you must input 2 for Universal Switch

FirstParameter: Switch ID (0-255)

SecondParameter: Universal switch Status,
255 for on, 0 for off

ThirdParameter: Unused, set 0

For example:

Open shade by Universal switch command

ShadeControlType=1 (must be)

CommandTypeID=2 (must be)

FirstParameter: Depend on which universal switch ID you are using, here I am using 1

SecondParameter: 255 for on
0 for off

RecNo	FloorAndAreaID	ShadeControlType	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
Click here to define a filter												
1	3	1	1	1		1	2	2	1	255	0	0

Close shade by Universal switch command

ShadeControlType=2 (must be)

CommandTypeID=2 (must be)

FirstParameter: Depend on which universal switch ID you are using, here I am using 2

SecondParameter: 255 for on
0 for off

RecNo	FloorAndAreaID	ShadeControlType	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
Click here to define a filter												
1	3	1	1	1		1	2	2	1	255	0	0
2	3	2	1	1	<null>	1	2	2	2	255	0	0

If you are using curtain module to control your shade, please see definition below:

ShadeControlType: You can input the number 0-2, the same as above

Open shade: 1

Close Shade: 2

Stop Shade: 0

CommandTypeID: you must input 7 for Curtain Switch command

FirstParameter: Curtain Switch ID (1-4)

SecondParameter: Switch Status

Open: 1

Close: 2

Stop: 0

ThirdParameter: Unused, set 0

For example:

Open shade by Curtain switch command

ShadeControlType=1 (must be)

CommandTypeID=7 (must be)

FirstParameter: Depend on which curtain switch ID you are using, here I am using 1

SecondParameter=1 (must be)

we add command like following selected data row:

RecNo	FloorAndAreaID	ShadeControlType	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
Click here to define a filter												
1	3	1	1	1		1	2	2	1	255	0	0
2	3	0	1	1	<null>	1	2	2	2	255	0	0
3	4	1	1	1	<null>	1	3	7	1	1	0	0
4	4	0	1	1	<null>	1	3	7	2	2	0	0

Close shade by Curtain switch command

ShadeControlType=2 (must be)

CommandTypeID=7 (must be)

FirstParameter: Depend on which curtain switch ID you are using, here I am using 2

SecondParameter=2 (must be)

we add command like following selected data row:

RecNo	FloorAndAreaID	ShadeControlType	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
Click here to define a filter												
1	3	1	1	1		1	2	2	1	255	0	0
2	3	2	1	1	<null>	1	2	2	2	255	0	0
3	4	1	1	1	<null>	1	3	7	1	1	0	0
4	4	2	1	1	<null>	1	3	7	2	2	0	0

Stop shade by Curtain switch command

ShadeControlType=0 (must be)

CommandTypeID=7 (must be)

FirstParameter: Depend on which curtain switch ID you are using, here I am using 3

SecondParameter=0 (must be)

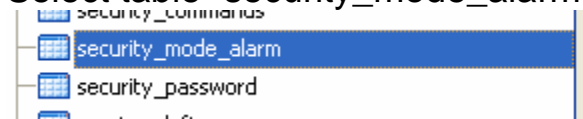
We add command like following selected data row:

RecNo	FloorAndAreaID	ShadeControlType	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
Click here to define a filter												
1	3	1	1	1		1	2	2	1	255	0	0
2	3	2	1	1	<null>	1	2	2	2	255	0	0
3	4	1	1	1	<null>	1	3	7	1	1	0	0
4	4	2	1	1	<null>	1	3	7	2	2	0	0
5	4	0	1	1	<null>	1	3	7	3	0	0	0

M. Security settings

M1. Security mode/alarm definition

Select table "security_mode_alarm" on the left side

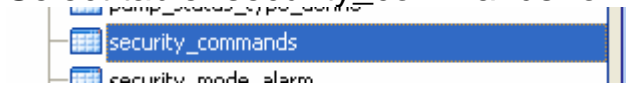


You will see the definition of security mode/alarm on the right side, we usually do not need to change anything from this table, and we only need to know the **SecurityID** from this table

RecNo	SecurityID	ModeName	SequenceNo	NormalIconName	SelectedIconName	NeedPasswordToExecute
Click here to define a filter						
1	1	Away	1	security_away.jpg	security_away_s.jpg	1
2	2	Night	2	security_night.jpg	security_night_s.jpg	1
3	3	Day	3	security_day.jpg	security_day_s.jpg	1
4	5	Panic	5	security_panic.jpg	security_panic_s.jpg	0
5	4	Disarm	4	security_disarm.jpg	security_disarm_s.jpg	1
6	6	Ambulance	6	security_ambulance.jpg	security_ambulance_s.jpg	0

M2. Commands of Security mode/alarm

Select table "security_commands" on the left side



You will the data on the right side.

Step1. Please check your data whether exactly like following data or not, except SubnetID and DeviceID

If have something different, please change them according to following table:

RecNo	SecurityID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
Click here to define a filter											
1	1	1	1	<null>	1	250	11	1	2	0	0
2	2	1	2	<null>	1	250	11	1	3	0	0
3	3	1	3	<null>	1	250	11	1	5	0	0
4	4	1	4	<null>	1	250	11	1	6	0	0
5	5	1	5	<null>	1	250	12	1	1024	0	0
6	6	1	6	<null>	1	250	12	1	2048	0	0

Step2. Change Subnet ID and Device ID

The SubnetID and DeviceID are for security module.

if your address of security module is not 1-250 (sunbetID:1 DeviceID:250), please change them on the table.

RecNo	SecurityID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelayMillisecondAfterSend
Click here to define a filter											
1	1	1	1	<null>	1	250	11	1	2	0	0

If you need know about security settings, please reference to **The definition of Command Type** above

N. IP Camera Settings

N1. JPEG image of IP camera

MJPEG of IP camera is not be supported in wince system, fortunately JPEG of IP camera is supported in wince system, it means that wince App can read JPEG image from IP camera and regularly refresh the JPEG image, the image effect of camera is good.

You might have some questions now,

Q1.What brands of IP camera can support JPEG image reading?

Q2. How to access JPEG image from IP camera?

The following makers have IP camera that have been reported on the internet to work with JPEG, and there are some example that how to use JPEG image below.

Panasonic cameras (Tested by me, it's working properly)

URL format for reading JPEG image from IP camera:

<http://<servername>/SnapshotJPEG?Resolution=320x240&Quality=Standard>

You need replace <servername> to the IP address of your IP camera,

Support to the IP address of your IP camera is 192.168.0.253

So, the correct URL is:

<http://192.168.0.253/SnapshotJPEG?Resolution=320x240&Quality=Standard>

Axis cameras (did not test)

URL format:

<http://<servername>/axis-cgi/jpg/image.cgi?resolution=320x240>

StarDot cameras (did not test)

URL format:

<http://<servername>/netcam.jpg>

PiXORD cameras (did not test)

URL format:

<http://<servername>/images<channel><resolution>>
<http://<servername>/images1sif>

D-Link cameras (did not test)

URL format:

<http://<servername>/cgi-bin/video.jpg>

Mobotix (did not test)

URL format:

<http://<servername>/record/current.jpg>

Toshiba (did not test)

URL format:

http://<servername>/__live.jpg?&&

Genius (did not test)

URL format:

IpCam Secure 300: http:// <servername>/image.jpg

If you have IP camera which is not included above brand, please check supplier's website or internet to find out how to access JPEG image.

N2. Add IP camera to database

Select table "camera" on the left side



RecNo	ID	Remark	URLOfJPEG	UserName	Password	SequenceNo
Click here to define a filter						
1	1	Meeting Room	http://192.168.0.253/SnapshotJPEG?Resolution=320x240&Quality=Standard			1

I have one Panasonic IP camera in meeting room, the IP address of camera is 192.168.0.253, there is no username and password to access camera, so I leave them empty.

URLOfJPEG:

http://192.168.0.253/SnapshotJPEG?Resolution=320x240&Quality=Standard

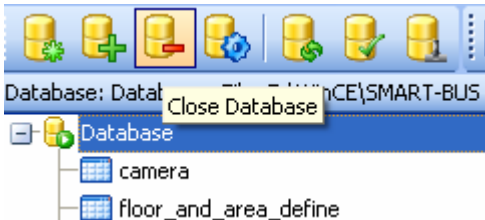
If you have more than 1 IP camera, just add it.

Z. Copy your database to 7" touch screen and Replace it

You need to know that before do it:

Do not change the database name

You need close database before copy the database



After you finished the configuration of database, you need to copy the database to 7" touch screen.

Location of destination:

`\NandFlash\SMART-BUS Automation\`

How to copy database to 7" touch screen?

The steps are the same as Chapter A; please reference to Chapter A above. You just need copy file "database.db3" to 7" touch screen, and you do not need copy other files.

[Run the App and test it.](#)

If have anything wrong, please check your database settings.

If you have any questions, please contact me,

If you found any bugs of App, please send a bug report to me by email.

Thank you very much!

Digitcom Smart Home

Mendel Lin

Email: MendeLLin88@gmail.com