



Generation-4 SBUS

Manual for SMART-BUS Android App Official Pro Version

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Content		
S/N	Chapter	Start page No.
A	SMART-BUS App for Android Demo version & Official PRO version	3
B	Install android application to android device	5
C	Install tool "SQLiteExpertPersSetup for windows.exe" on your computer for programming	6
D	Open database "database.db3"	7
E	Room Settings	10
F	Lighting settings of the room	14
G	Moods Settings of Room	16
H	HVAC Settings of Room	23
I	Generation Settings	25
J	Copy your database to android device(update database)	25

A. SMART-BUS App for Android Demo version & Official PRO version

We provide 2 types of SMART-BUS android version, one is demo free version, and another one is official professional version.

Android demo free version:

The demo free version is available from our website,

Here is the link:

<http://smarthomebus.com/dealers/Softwares/Android%20V1.4%20Demo%20version.rar>

The Demo free version has control function, you can control lighting, mood, HVAC, BOXEE media control, but it's not enable to get the status.

Please know that the Demo free version do not have any upgrade version.

The Official Professional Version:

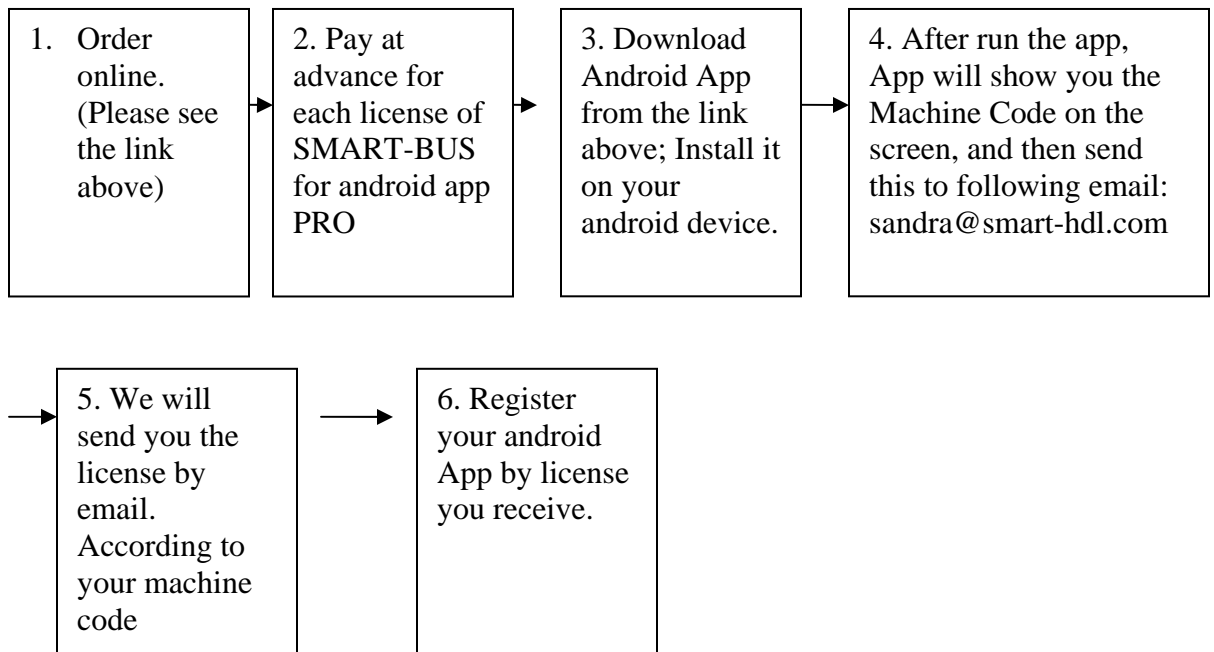
Download it online:

<http://smarthomebus.com/dealers/Softwares/Android%20V1.8%20Official%20Pro%20Version.rar>

To order online:

<http://www.smart-supplier.com/form/>

Here is the procedure for purchasing Smart-BUS for Android app PRO version:

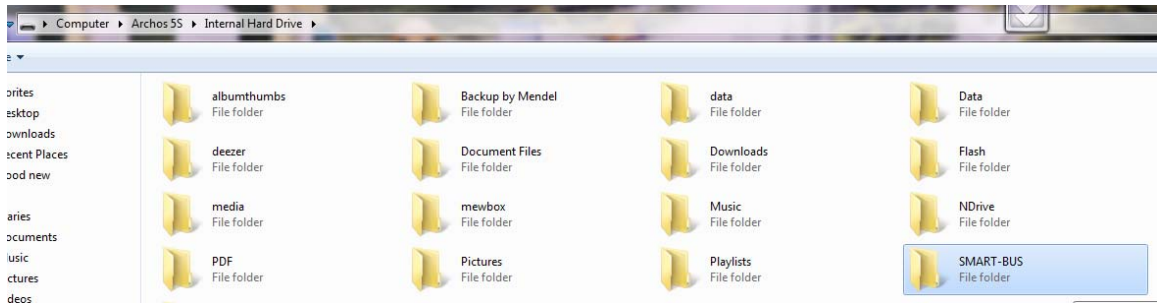


Once you buy the official professional version, you will get the free upgrade version and technical support.

B. Install App to android device

B1. Please copy the folder "SMART-BUS" to the **root directory** of **External Hard Disk or SD Card** on your android device.

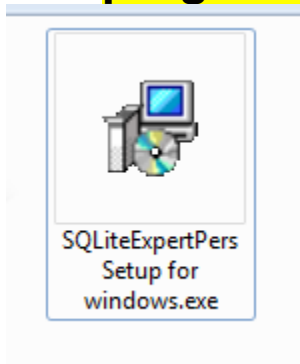
(Do not change the folder name and folder directory and any files name).



B2. Go to "file manager" on your android device, Click the file "SMART-BUS.apk" and install it

B3. After you install it, you can see the icon "SMART-BUS Automation" on the desktop of android device; Click it to run the app.

C. Install tool "SQLiteExpertPersSetup for windows.exe" on your computer for programming.



If you do not have this tool, you can download it from following link:

<http://smarthomebus.com/dealers/Softwares/SQLiteExpertPersSetup%20for%20windows.exe>

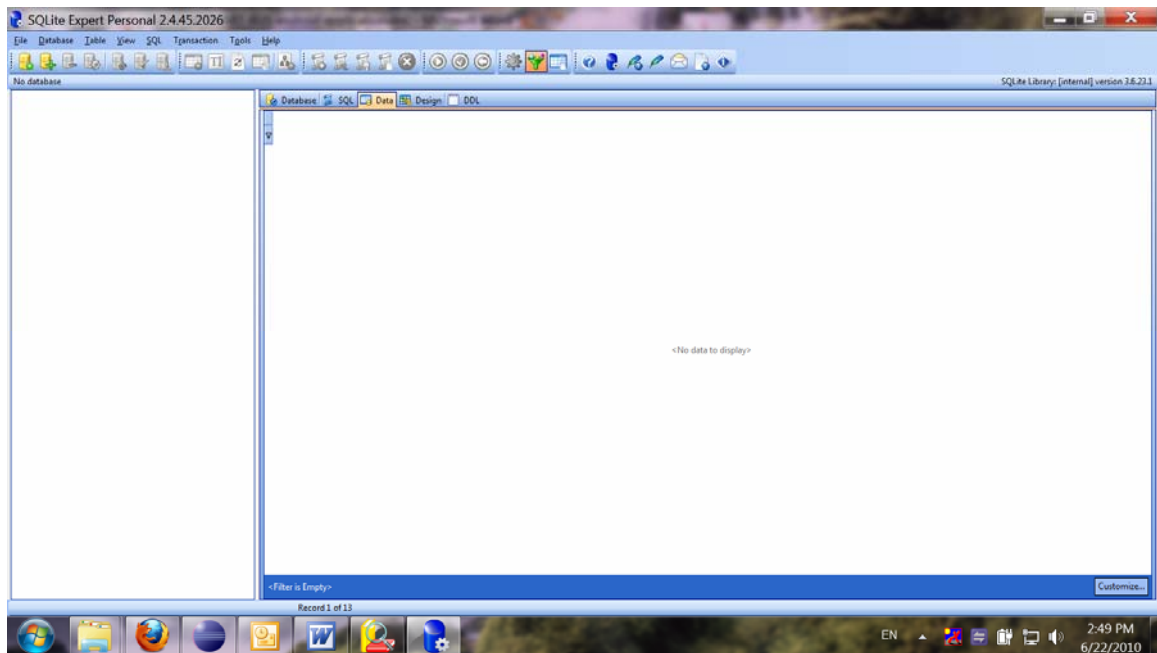
D. Open database “database.db3”

Before you make any modification, we recommended you backup database “Database.db3” which is under folder “SMART-BUS” in case any mistake happen.

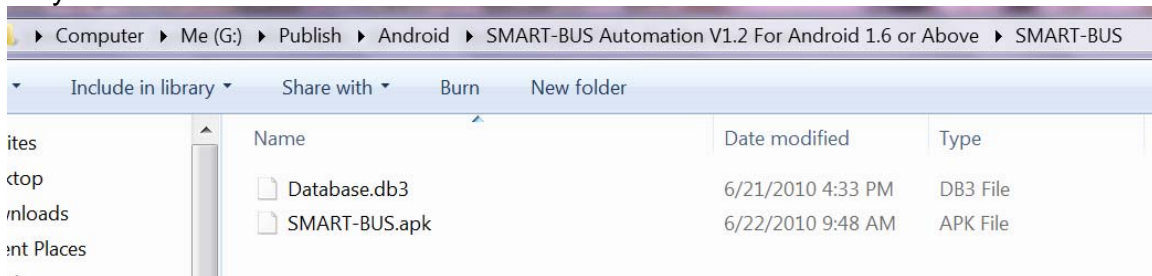
After you install the software “**SQLiteExpertPersSetup for windows.exe**”,



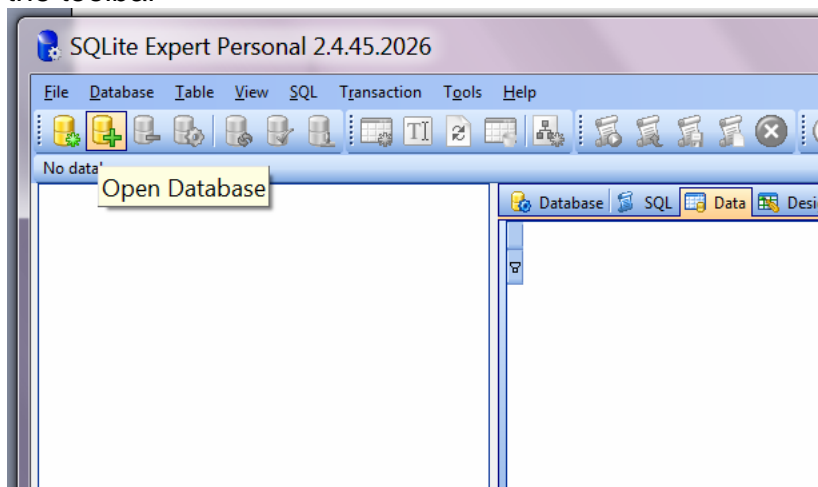
run the software.



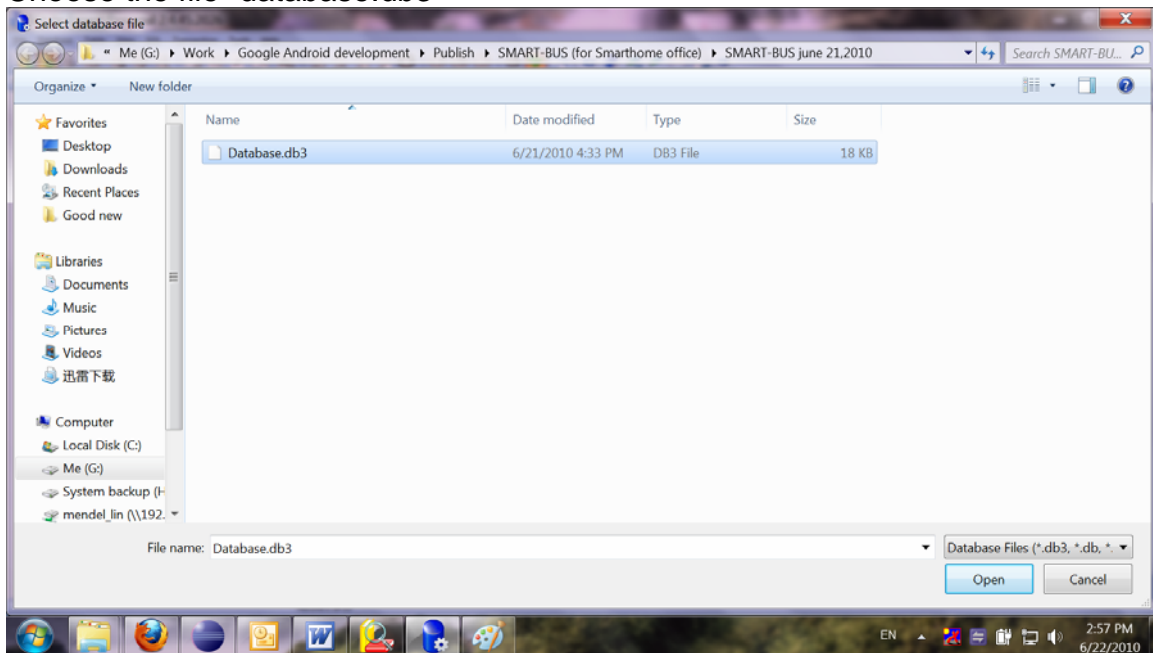
Open the our database "Database.db3"
you will find out database "Database.db3" under the folder "SMART-BUS"



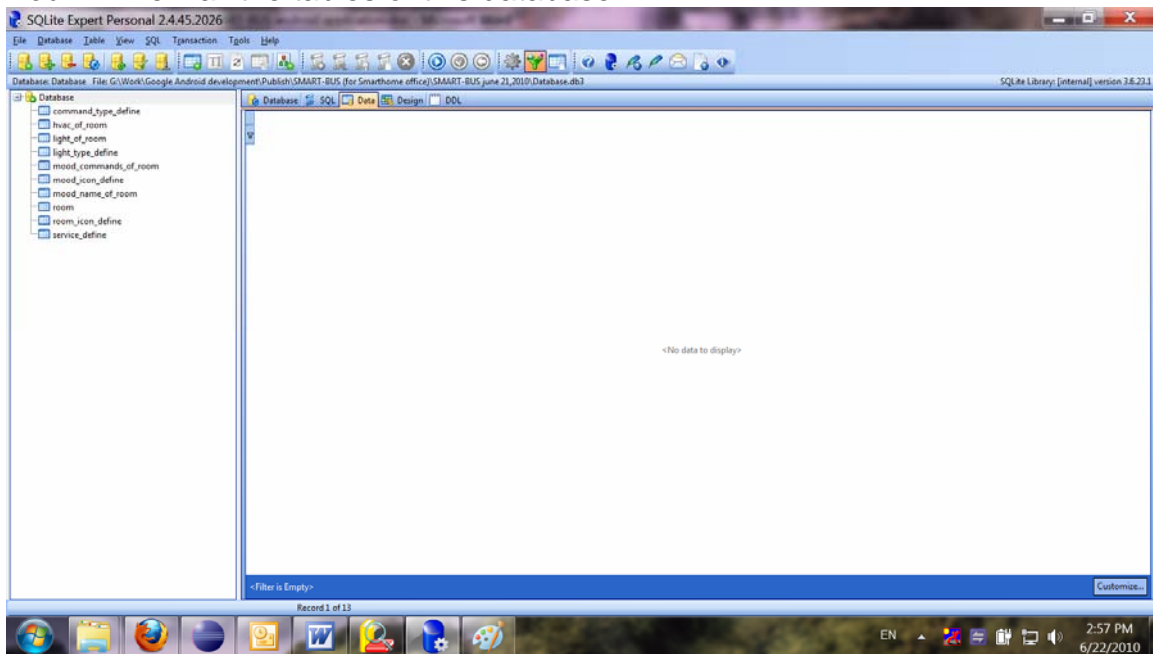
On the software "SQLite Expert Personal ", click the button "Open Database" on the toolbar



Choose the file “database.db3”



You will view all the tables of this database



From now on, you can start to make configuration.

E. Room Settings

before we make the configuration on the database, please do not change the structure of database.

For example:

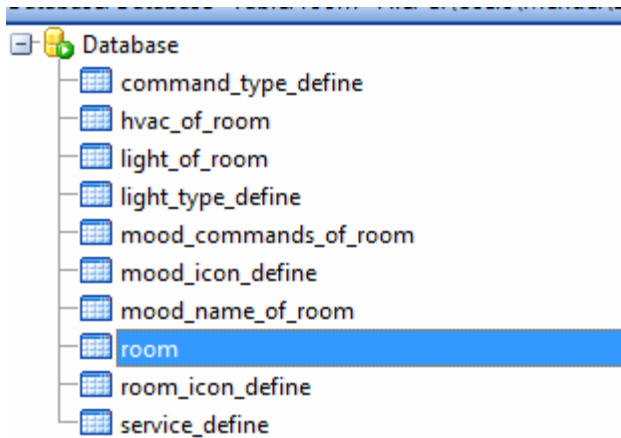
Do not delete any table

Do not change any table name

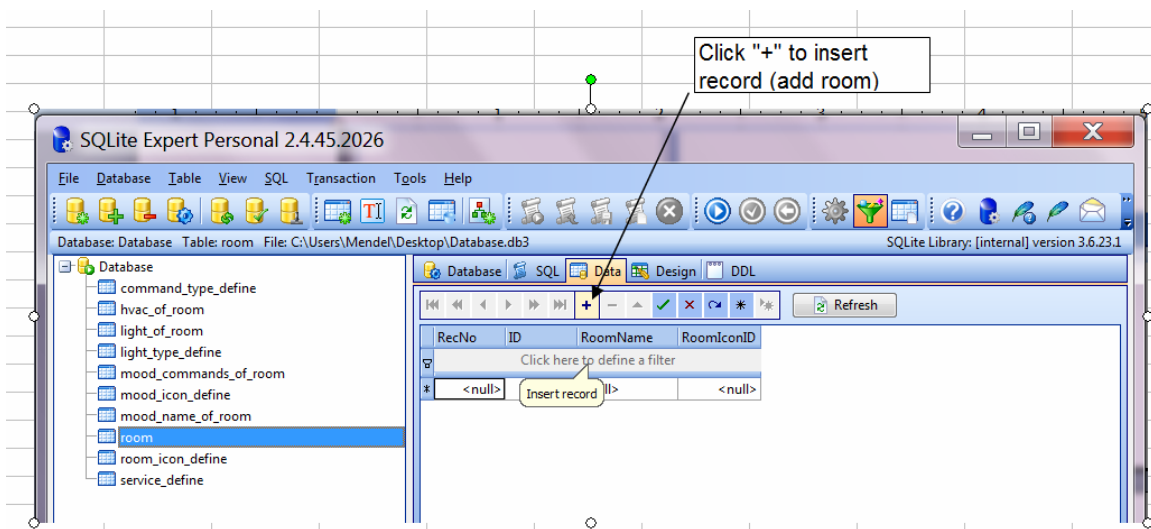
Do not add/change/delete any fields of tables

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

We store the data of room to table “room”, Select the table “room” on the left side



Click “+” to insert record (add room),see below picture



There are 3 fields of table “room”, they are ID , RoomName,RoomIconID.

















Define of Table “room”

Field Name	Remark	Value
ID	This is room ID, it's very important for programming. It also will be use for other tables.	Number, Start from 1
RoomName	this is room name; it will be show on the room list of main page of android Application.	
RoomIconID	this field is for room icon, Please see the following	from 0 to 15

	define of RoomIconID	
--	----------------------	--

The define of RoomIconID

Define of RoomIconID

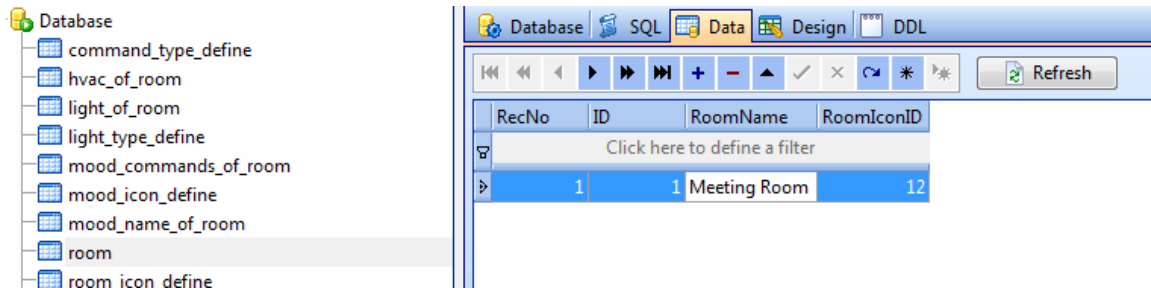
RoomIconID	Remark	Icon
0	Default icon	
1	Bed room	
2	Dining room	
3	Entrance	
4	Exhibition	
5	Family room	
6	GYM	
7	Guest room	
8	Kitchen	
9	Lobby	
10	Manager room	
11	Master bed room	
12	Meeting room	
13	Outside/garden	
14	Parking	
15	Stair	

Add room

ID=1

RoomName=Meeting Room,

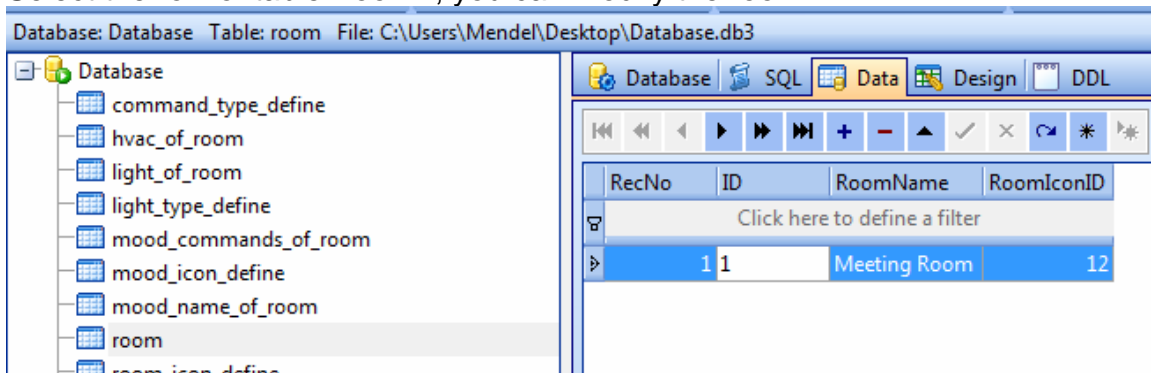
RoomIconID=12 (check the define "RoomIconID" above)



If you want to add more rooms, just do it the same as above.

Modify room

Select the row of table "room", you can modify the room



Delete room

The screenshot shows the 'Table Editor' window with a table containing the following data:

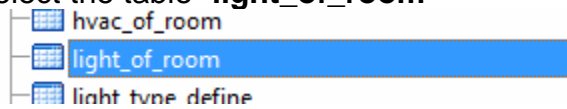
RecNo	ID	RoomName	RoomIconID
1	1	Meeting Room	12
2	2	df	1

A context menu is open over the table, listing the following actions:

- 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
- Select columns

F. Lighting settings of the room

Select the table “light_of_room”








The table “light_of_room” has 9 fields ,please see the define following:

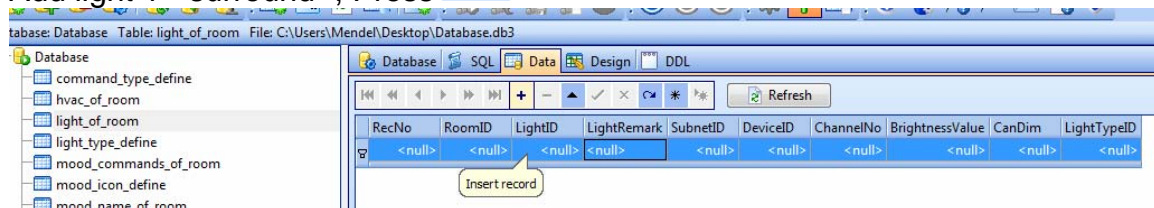
Table “light_of_room”

Field	Remark	Value
RoomID	You can know the RoomID from the table “room”. For example , the RoomID of meeting room is 1 which we have already added above	Start from 1
LightID	ID of light	Start from 1
LightRemark	Light remark	
SubnetID	SubnetID and DeviceID are the address of Dimmer of Relay	0-254
DeviceID	SubnetID and DeviceID are the address of Dimmer of Relay	0-254
ChannelNo	Channel no of light	0-254
BrightnessValue	This is the percentage of lighting brightness , 0- 100	0-100
CanDim	0 or 1 (1: the light can be dimmed, 0 : the light can not be dimmed the light, only on/off)	0 or 1
LightTypeID	Light type icon define (please see the following define)	1-4

The define of LightTypeID

LightTypeID	Remark	Icon
1	incandescent light	
2	spot light	
3	fluorescent light	
4	chandelier light	

Add light 1 “surround” , Press 



Input data of light

Database: Database Table: light_of_room File: C:\Users\Mendel\Desktop\Database.db3

Database | SQL | Data | Design | DDL

RecNo RoomID LightID LightRemark SubnetID DeviceID ChannelNo BrightnessValue CanDim LightTypeID

Click here to define a filter

1	1	1	surround	1	64	3	100	1	2
---	---	---	----------	---	----	---	-----	---	---

Add light 2 “fluorescent”

Database: Database Table: light_of_room File: C:\Users\Mendel\Desktop\Database.db3

Database | SQL | Data | Design | DDL

RecNo RoomID LightID LightRemark SubnetID DeviceID ChannelNo BrightnessValue CanDim LightTypeID

Click here to define a filter

1	1	1	surround	1	64	3	100	1	2
2	1	2	fluorescent	1	65	1	100	0	3

So you can add limitless lights to this room.

Modify Light of room

RecNo RoomID LightID LightRemark SubnetID DeviceID ChannelNo BrightnessValue CanDim LightTypeID

Click here to define a filter

1	1	1	surround	1	64	3	100	1	2
---	---	---	----------	---	----	---	-----	---	---

Delete the light of room

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	3	100	1	2
2	1	2	fluorescent	1	65	1	100	0	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**

G. Moods Settings of Room

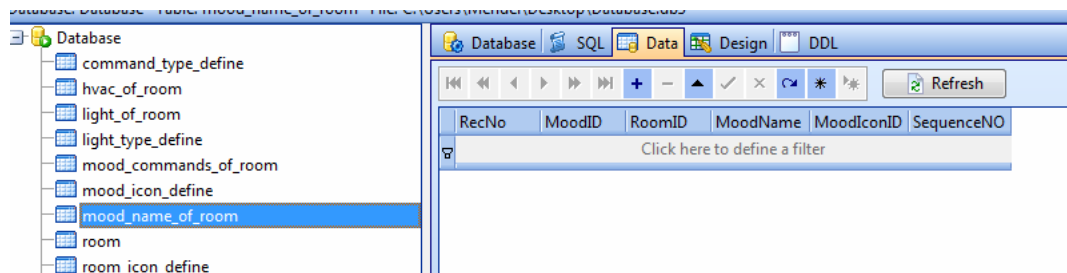
There are 2 steps to setup mood of room

Step 1: add mood name to current room
(Table “mood_name_of_room”)

Step2: add commands to current mood of current room
(Table “mood_commands_of_room”)

Step 1:

Select the table “mood_commands_of_room”



The define of table “mood_name_of_room”


Field	Remark	Value
MoodID	The id of mood	Start from 1
RoomID	The id of room, you can find out the RoomID from the table “room”	
MoodName	Mood name	
MoodIconID	This is the mood icon id, you can choose the icon that you want to use from our icon library, please see the define of MoodIconID	
SequenceNo	Sequence ID, this field	Start from 0,


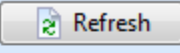
	like the “Order By”, it will arrange the sequence of show	
--	---	--

Define of mood icon ID

MoodIconID	Remark	Icon
0	Default mood	🧡
1	Goodbye	🌙
2	Listen to music	🎵
3	Mafia	👤
4	Meeting	👥
5	Presentation	📺
6	Relax	🛀
7	Romantic	💕
8	watch movie	🎬
9	watch TV	📺
10	All on	💡

Add mood name to the room

Press , then input the data like the following

 						
RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO	
Click here to define a filter						
1	1	1	All on	10	1	

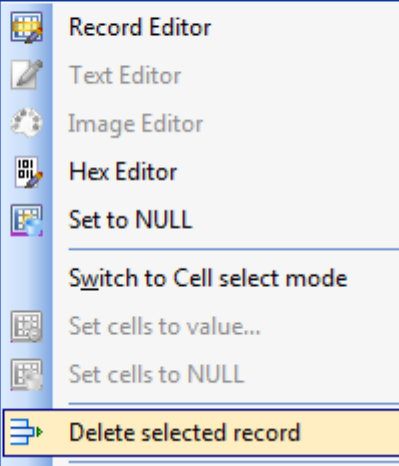
Modify mood name of room

RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO
Click here to define a filter					
*	<null>	1	1 All on	10	1

Delete mood name of room

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

RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO
Click here to define a filter					
*	<null>	1	1 All on		



- 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**

Step 2:

Add commands of current mood

select the table "mood_commands_of_room"

The define of table "mood_commands_of_room"

FieldName	Remark	Value
RoomID	See the table "room"	Start from 1
MoodID	See the table "mood_name_of_room"	Start from 1
CommandID	Command ID	Start from 0
SequenceNo	Sequence No, this is the sequence of your commands of current mood 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	0-12

	define below	
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 Ex. If you want to delay 1 second, should input 1000	Start from 0 , unit: Millisecond

The define 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 take any actions	Any value (0-255)	Any value (0-255)	Any value (0-65535)
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: Stop 1: Open 2: Close)	Unused (set 0)
8	Timer Control		Channel No (1-255)	Control Status (255: open 0 : close)	Unused (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 function of	0: (disable) 1: (enable)	0

			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		Zone no	Mode No	Unused

	Mode control		(1-8)	1: vacation 2: away 3: night 4: Night with guest 5: Day 6: Disarm	(set 0)
12	Security Alarm		Zone no (1-8)	Alarm No 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	Unused (set 0)

Add command of mood

RecNo	RoomID	MoodID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelaySecondAfterSend
Click here to define a filter												
1	1	4	1	1	goodbye in meeting room 1	1	65	4	1	0	0	0
2	1	4	2	2	goodbye in meeting room 2	1	64	0	1	0	0	0

Modify command of mood

RecNo	RoomID	MoodID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelaySecondAfterSend
Click here to define a filter												
1	1	4	1	1	goodbye in meeting room 1	1	65	4	1	0	0	0
2	1	4	2	2	goodbye in meeting room 2	1	64	0	1	0	0	0

Delete command of mood

RecNo	RoomID	MoodID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	Comr
Click here to define a filter								
1	1	4	1	1	goodbye in meeting room 1	1	65	
2	1	4	2			1	64	

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

H. HVAC Settings of Room

We will control HVAC by DLP panel, so we just need to set the address of DLP.
Select the table "hvac_of_room"

Database	command_type_define
	hvac_of_room
	light_of_room

Define of table "hvac_of_room"

Field	Remark	Value
RoomID	See the table "room"	
SubnetIDOfDLP	The address of DLP	0-254
DeviceIDOfDLP	The address of DLP	0-254

Setup HVAC of room

For example:

The address of DLP in current room is:

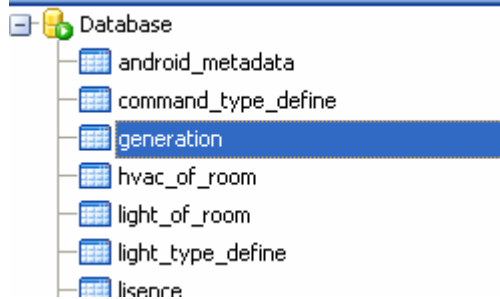
Subnet ID: 1

Device ID: 6

RecNo	RoomID	SubnetIDOfDLP	DeviceIDOfDLP
Click here to define a filter			
1	1	1	6

I. Generation Settings

Select table "generation"



If you are using Smart-BUS G4, then you need set **GenerationNo=4**
If you are using Smart-BUS G3, then you need set **GenerationNo=3**
please see the picture below.

RecNo	GenerationNo	Remark
Click here to define a filter		
1	4	G4=4, G3=3

J. Copy your database to android device

You need to know that before do it:

Do not change the database name

Do not change the location of folder "SMART-BUS"

Do not change the folder name "SMART-BUS"

After you finished the modification of database, you need to copy the database to android device

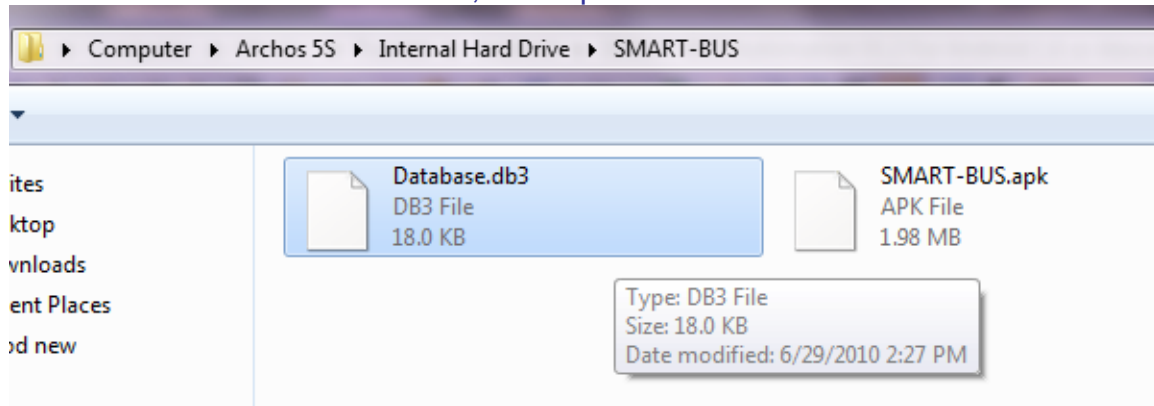
(SMART-BUS android application is located under folder "SMART-BUS" of the root directory of android device)

Step1. You need to close the software "SQLite Expert Personal" before you copy the database "Database.db3"

Step2. Connect your android device to your computer by cable.

Step3. The “SMART-BUS” android application is located under the folder “SMART-BUS” of android device, before you update database, you’d better backup your old database.

Then copy your latest database that you have modified under the folder “SMART-BUS” of android device, and replace it.



You don’t need install the application again, because you just modify the database, the application file APK and database is separated.

Go to run “SMART-BUS” application, you will see the results what you did.

If have anything wrong, please check your database settings.

If you have any questions, please contact me.

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Email: MendeLLin88@gmail.com

