

# Manual of Installation and Configuration for SMART-BUS Android Official Pro Version

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Create Data 2013-11-30

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A:SMART-BUS android APK free version And Official Professional version The android smart-bus free version has only one way control, you can control lighting, mood, HVAC, Music control.

**B. Install android application to android device** 

# Step1.please Form google play stroe downlown apk of name smartBus and install the smartBus APP

Step2.After you have successfully installed it, you can see the icon "SMART-BUS ", run it.

Notice:

After you run the app SMART-BUS, this program will generate a named SMART-BUS folder on your memory card inside, in this folder to generate a default database

C. Install windows software "SQLiteExpertPersSetup for windows.exe" on your computer so that you can modify the SQLite database



If you do not have this software "SQLite Expert Personal

for windows", you can download it from SQLite official website.

Or you can go to download from the link I provided



http://www.sqliteexpert.com/download.html After downlaoding and installing on your computer

# D. Open database "database.db3"

Before you make any modification, please backup database "Database.db3" which is under folder "SMART-BUS"

After you install the software "SQLiteExpertPersSetup for windows.exe", run the



SQLite Expert Personal 2.4.45.2026	Address of the Name of Street and Stree		x
File Database Table View SQL Transaction Tools			
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	8		
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	<filter empty="" is=""></filter>	Custo	mize
	Record 1 of 13		
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Open the our database "Database.db3" you will find out database "Database.db3" under the folder "SMART-BUS"

▶ Computer ▶ Me (G:) ▶ Publish ▶ Ar	ndroid 🕨 SMART-BUS Au	utomation V1.2 For Android 1.6 or	Above	-BUS
<ul> <li>✓ Include in library ▼ Share with ▼</li> </ul>	Burn New folde	er		
ites Name	~	Date modified	Туре	5
ctop Database.db	93	6/21/2010 4:33 PM	DB3 File	
Inloads SMART-BUS	.apk	6/22/2010 9:48 AM	APK File	

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

SQLite Expert Personal 2.4.45.2026	
<u>File Database Table View SQL Transaction</u>	T <u>o</u> ols <u>H</u> elp
No data' Open Database	😡 Database 🗯 SQL 🗔 Data 🔣 Desig

#### Choose the file "database.db3"

ganize   New folder					
Favorites	Name	Date modified	Туре	Size	
E Desktop	Database.db3	6/21/2010 4:33 PM	DB3 File	18 KB	
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» Me (G:)					
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File nam	ne: Database.db3				▼ Database Files (*.db3, *.db, *
					Open Cancel

You will view all the tables of this database

SQLITE Expert Personal 2.4.45.2026		
<u>File Database Table View SQL Transaction To</u>		
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Database: Database File: G:\Work\Google Android develop		SQLite Library: [internal] version 3.6.23.1
Batabase     Command, type, difine     Icommand, type, difine     Icommand, type, difine     Ibiqht, type, difine     mod, tormand, difuom     mod, torn, difine     mod, tank, difuom     mod, tank, difuom     room     room     room     service, difine	Image: Solution of Solution       Image: Solution of Solution         Image: Solution of Solution       Image: Solution of Solution         Image: Solution of Solution       Record of Solution	Customize
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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

	abase
	command_type_define
	hvac_of_room
-	light_of_room
-	light_type_define
-	mood_commands_of_room
-	mood_icon_define
-	mood_name_of_room
	room
-	room_icon_define
-	service_define

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

	Click "+" to insert
SQLite Expert Personal 2.4.45.2026	
<u>File Database Table View SQL Transaction T</u>	gols <u>H</u> elp
8. 8. 8. 8. 8. 8. 10	2 🗔 🖶 🕱 🗊 🕇 🔕 💿 🎯 😂 😽 🔽 🛛 0 🤰 🦧 🖉 🖻
Database: Database Table: room File: C:\Users\Mendel\	Desktop\Database.db3 / SQLite Library: [internal] version 3.6.
Database     Command_type_define     Mac_of_room	Image: Sql region     Image: Sql region     Image: Sql region     Image: Sql region       Image: Sql region     Image: Sql region     Image: Sql region     Image: Sql region       Image: Sql region     Image: Sql region     Image: Sql region     Image: Sql region       Image: Sql region     Image: Sql region     Image: Sql region     Image: Sql region
- Ight_of_room - Ight_type_define - Ight_type_define - Ight_type_define - Ight_type_define	RecNo         ID         RoomName         RoomIconID
- I moda_icon_aenne - I moda_name_of_room - I room - I room - I room_icon_define	
service_define	

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

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 Table "room"

define of RoomIconID	

#### The define of RoomIconID

Define of RoomIconII	)	
RoomIconID	Remark	Icon
0	Default icon	
1	Bed room	
2	Dining room	
3	Entrance	
4	Exhibition	
5	Family room	

6	GYM	<b>%</b>
7	Guest room	
8	Kitchen	
9	Lobby	
10	Manager room	
11	Master bed room	
12	Office/study room	

13	Outside/garden	
14	Parking	P
15	Stair	
16	parlor	
17	Rest room	
18	Training room	
19	Children`s Room	

20	KTV/Bar	
21	Demo kit	
22	Hotel Demo	

#### Add room

ID=1 RoomName=Meeting Room, RoomIconID=12 (check the define "**RoomIconID**" above )



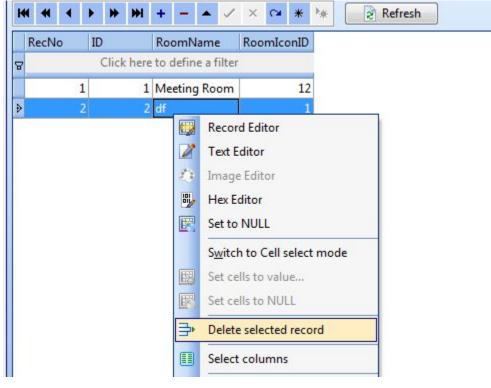
If you want to add more rooms, just do it the same as above.

#### Modify room

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

🛛 🚼 🛃 🛃 🔡 🚼	e 💈 SQL [	📑 Data 🔣 De	sign 🛅 DDL	<u>.</u>
	Internal Designation		Barris Barris	
144 44 4	<b>• • •</b> •	+ - + -	× ~ *	**
RecNo	ID	RoomName	RoomIconID	
8	Click here	e to define a filter	r	
Þ	1 1	Meeting Room	12	
	RecNo	Image: Non-State    RecNo    ID    ID    ID    ID	Image: New York     Image: New York     Image: New York     Image: New York       RecNo     ID     RoomName       Image: New York     Click here to define a filter	Image: Market and Market an

#### **Delete room**



# F. Lighting settings of the room

Select the table "light\_of\_room"

Iight\_of\_room

light type define

The table "light\_of\_room" has 9 fields ,please see the define following:

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

#### Table "light of room"

#### The define of LightTypeID

LightTypeID	Remark	Icon
1	incandescent light	

2	spot light	<b></b>
3	fluorescent light	c
4	chandelier light	
5	Table lamp ligth	
6	Table lamp ligth2	<b>S</b>
7	lamp	
8	Table lamp ligth3	

6

# Add light 1 "surround" Press +

Add light 1 Suffound	, Pless
tabase: Database Table: light_of_room File: C:\L	Jsers\Mendel\Desktop\Database.db3
Database	🚱 Database 🗯 SQL 🗔 Data 🎛 Design 🛄 DDL
- Iight_of_room	RecNo RoomID LightID LightRemark SubnetID DeviceID ChannelNo BrightnessValue CanDim LightTypeID
- Iight_type_define - IIII mood_commands_of_room	g <null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null>&lt;<null><ull>&lt;</ull></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null>
	[Insert record]
mood_name_of_room	

#### Input data of light

	2 🖃 🛃 🐹 🕱 🕱 🔕 💿 🎯 🗳 🬱 🖃 🥝 🌏 🔶
Database: Database Table: light_of_room File: C:\User	(s\Mendel\Desktop\Database.db3
Database	🚯 Database 🕼 SQL 📴 Data 🔣 Design 🛄 DDL
- command_type_define - 💷 hvac_of_room	Image: Non-State         Image: Non-State
- iight_of_room	RecNo RoomID LightID LightRemark SubnetID DeviceID ChannelNo BrightnessValue CanDim LightTypeID
- IIII light_type_define - IIII mood_commands_of_room	ত্ব Click here to define a filter
mood_icon_define	>         1         1         surround         1         64         3         100         1         2
mood_name_of_room	
- m room	
- m room icon dofino	10

### Add light 2 "fluorescent"

Database	Data	base SOL	Data	🔣 Design 🥅	וסס					_
command_type_define hvac_of_room	H4 4	4 + + +	4 + -	▲ ✓ × ભ		Refresh				
Iight_of_room	RecNo	RoomID	LightID	LightRemark	SubnetID	DeviceID	ChannelNo Bri	ghtnessValue Ca	nDim Ligh	tTypeID
light_type_define mood commands of room	8					to define a f				
mood_icon_define	₽							100	1	
mood name of room		2	1	2 fluorescent	1	65	1	100	0	3

So you can add limitless lights to this room.

N	1	odify L	ight of	room							
		RecNo	RoomID	LightID	LightRemark	SubnetID	DeviceID	ChannelNo	BrightnessValue	CanDim	LightTypeID
٢	8	Click here to define a filter									
	Ð			1	surround	1	64	3	100		2

#### **Delete the light of room**

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

	RecNo	RoomID	LightID	LightRe	mark Su	bnetID	DeviceID	ChannelNo	BrightnessValue CanDim	LightTypeID
7					C	lick here	e to define a	filter		
•				1 surroun	d		64		100	1 2
Γ		2	1	2 fluoresc	ent	1	. 65	5	Record Editor	3
					1000			2	Text Editor	
								23	Image Editor	
									Hex Editor	
								E.	Set to NULL	
									Switch to Cell select mode	
									Set cells to value	
									Set cells to NULL	
								12.	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"

Database	B Database SQL C Data R Design DDL
- command_type_define hvac_of_room	
- 🔢 light_of_room - 🛄 light_type_define - 🛄 mood_commands_of_room	RecNo         MoodID         RoomID         MoodName         MoodIconID         SequenceNO           P         Click here to define a filter
- IIII mood_icon_define - IIII mood_name_of_room - IIII room - IIII room_icon_define	

#### 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 like	Start from 0,
	the "Order By", it will	
	arrange the sequence of	
	show	

#### Define of mood icon ID

MoodIconID	Remark	Icon
0	Default mood	<b>()</b>
1	Goodbye	J
2	Listen to music	" <b>,</b>
3	Mafia	2
4	Meeting	<b>**</b>
5	Presentation	
6	Relax	2
7	Romantic	
8	watch movie	<b>N</b>
9	watch TV	

10	All on	

#### Add mood name to the room

**Press** , then input the data like the following

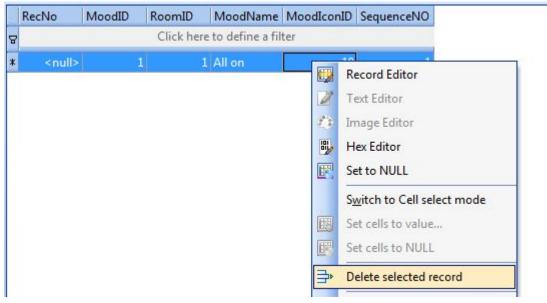
H4 44	<ul><li>►</li><li>₩</li></ul>	+ 144		✓ × ∾	* 🐂 📃	Refresh
Rech			mID	MoodName	MoodIconID	SequenceNO
8	Ċ.	isercrecord	k here t	to define a fil	ter	
•	1	1	1	All on	10	1

#### Modify mood name of room

	RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO
8			Click here	to define a fil	ter	
*	<null></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"





#### Add commands of current mood

select the table "mood\_commands\_of\_room"

FieldName	Remark	Value
RoomID	See the table "room"	Start from 1
MoodID	See the table	Start from 1
	"mood_name_of_room"	
CommandID	Command ID	Start from 0
SequenceNo	Sequence No, this is the	Start from 0
	sequence of your	
	commands of current mood	
	which to be executed	
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	0-255
	depend on the field	
	"CommandTypeID",see the	
	define below	
SecondParameter	It has different meaning	0-255
	depend on the field	
	"CommandTypeID",see the	
	define below	
ThirdParameter	It has different meaning	0-65535
	depend on the field	
	"CommandTypeID",see the	
	define below	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
DelayMillisecondAfterSend	Delay time after sent	Start from 0,
	current command.	unit: Millisecond
	1 second=1000 millisecond	
	Ex. If you want to delay 1	
	second, should input 1000	

The define of table "mood commands of room"

#### The define of Command Type

Comma ndTypeI D	Name	Remark	FirstParamete r	SecondPa rameter	ThirdParameter
0	Scene		Zone No	Scene No	Unused
	control		(0-254)	(0-254)	(set 0)
1	Sequen		Zone No	Sequence	Unused
	се		(0-254)	No	(set 0)
	Control			(0-254)	
2	Univers		Universal	Switch	Unused

	al Switch Control		Switch ID (0-255)	Control status (255:on 0: off)	(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	Broadca st 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	Broadca st All channel s	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 managem ent software	Type ID ( 0: invalid 1: SMS Message )	GPRS Command No (0-255)	Unused (set 0)

		to make some configurati ons			
10	Panel control		FirstParamet er (TypeID) 0 (incertial)	SecondPa rameter (Value) 0	ThirdParameter (unused)0
			(invalid) 1 (enable/disable IR receive function of DLP)	0: (disable) 1: (enable)	0
			2 (enable/disable key lock of DLP)	0: disable key lock of DLP 1: enable	0
			3 (Power on/off of Air condition)	key lock of DLP 0: (power off) 1: (power on)	0
			4 (Set cool temperature)	0-30 (cool settings temperatur e, you can	0
				see the temperatur e range from DLP of SBUS	
			5 (FAN Speed)	software) 0: (auto) 1: (High) 2: (Medium) 3: (low)	0
			6 (AC mode) 7	0: (Cool) 1: (Heat) 2: (FAN) 3: (Auto) 0-30	0
			(Set Heat	(heat	

		temperature)	settings temperatur e, you can see the temperatur e range from DLP of SBUS software)	
11	Security Mode control	Zone no (1-8)	Mode No 1: vacation 2: away 3: night 4: Night with guest 5: Day 6: Disarm	Unused (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

R	lecNo	RoomID	MoodID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelaySecondAfterSend
8							Click here to	define a filte	r				
¢	1		1 4	1		goodbye in meeting room 1	1	. 65					
	2	2	1 4	2	2	goodbye in meeting room 2	1	. 64	0	1	0	0	0

#### Modify command of mood

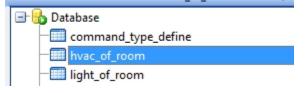
	RecNo	RoomID	MoodID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelaySecondAfterSend
5							Click here to	define a filte	r				
Þ	1	1 1	l 4			goodbye in meeting room 1	1	65	4		0	0	0
	2	2 1	4	2	2	goodbye in meeting room 2	1	64	0	1	0	0	0

#### Delete command of mood

	RecNo	Room	D Moo	odID (	CommandID	SequenceNo	Remark	SubnetID	DeviceID	Comr
8								Click here to	define a filte	er
•		1	1	4	1	1	anadhus in masting ras		6	5
		2	1	4	2		Record Editor	1	. 64	4
						2	Text Editor			
						<i>(</i> )	Image Editor			
						84	Hex Editor			
						E	Set to NULL			
							S <u>w</u> itch to Cell select m	ode		
							Set cells to value			
						R	Set cells to NULL			
							Delete selected record			
						(==)	Calant and some			

# 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"



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

K	K	•	•	١.	₩.	₩	+	-	•	~	$\times$	C <sup>ir</sup>	*	۰.
	R	ecNo	D	Ro	om	ID	Sul	oneti	IDOf	DLP	Dev	/iceII	DOf	DLP
8					Cli	ck he	ere to	o def	ine a	a filte	er			
Þ			1			1				1				6

### I. 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.

•		
ites ktop vnloads	Database.db3 DB3 File 18.0 KB	SMART-BUS.apk APK File 1.98 MB
ent Places od new	Size: 18	DB3 File 8.0 KB nodified: 6/29/2010 2:27 PM

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.

Name: Mendel Lin Email: MendeLLin88@gmail.com