

2012

Programming Manual

Logic
V2.1



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Before you begin this course

Before you begin this course, you should have:

- Understand the basic bus Diagram Connection Topology
- Understand the Lighting and HVAC Connections Diagram
- Basic Knowledge about IP setting. (please see 2-2)
- Basic Knowledge of using Windows operating system.
- Basic Knowledge of using Windows Painter.



Prerequisites


Either

- Products overview course.
- Installation Course.

How this course is organized

Lighting and HVAC Programming Guide Course Organized in Simple way of

Product overview, Example Picture, ( Notices) , ( Advices),

( Example) .

For Training Course Request Please apply online

www.smarthomebus.com

1- Introduction

Welcome to S-BUS manual Programming Guide, you are now a Beginner Programmer who will know soon how the S-bus Programming is simple.

1-1 Objective:

After this course you will be able to program the Lights Dimmers and relays with the switches Panel, Program curtain shades control, program the Air condition setting and DDP panel, create and download different Picture on the LCD, and start with Motion sensor and Automate your Project and many more...

1-2 S-Bus products:

S-BUS Products is vary with its powerful and multi functions, it have the high power dimmer and relay, Curtain, DMX and LED controller, Wall switches and Dynamic Display Panel "DDP", HVAC2 Air condition control and different type of sensors, like Motion sensor, light intensity sensor, Ultrasonic sensor, Dry input sensor, Analog input, current sensor, Power meter, Infrared receivers and transmitter, Security and Automation, Audio Module, Rs232, Programming and integrations Module

2- Start Programming

In smart home G4 there are two ways For Programming:

- ✚ Manual Way (For Basic Programming).
- ✚ Pc /Laptop Way (For Basic and Advanced Programming).

2-1 S-Bus Programming Software overview

You need on this lesson: to have your computer with you. Running on windows Operating system, Smart Cloud **G4** software, Programming port SB-DN-1IP, that enable you to search for all the devices that connected to the bus network.

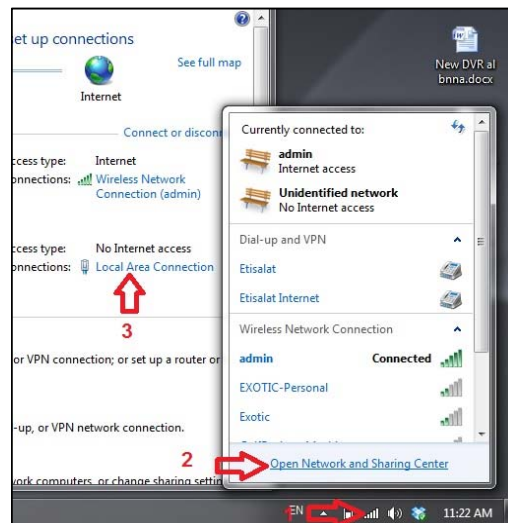
1- Install your S-bus configuration software in your Computer by pressing the **Setup** icon and follow the installation steps windows

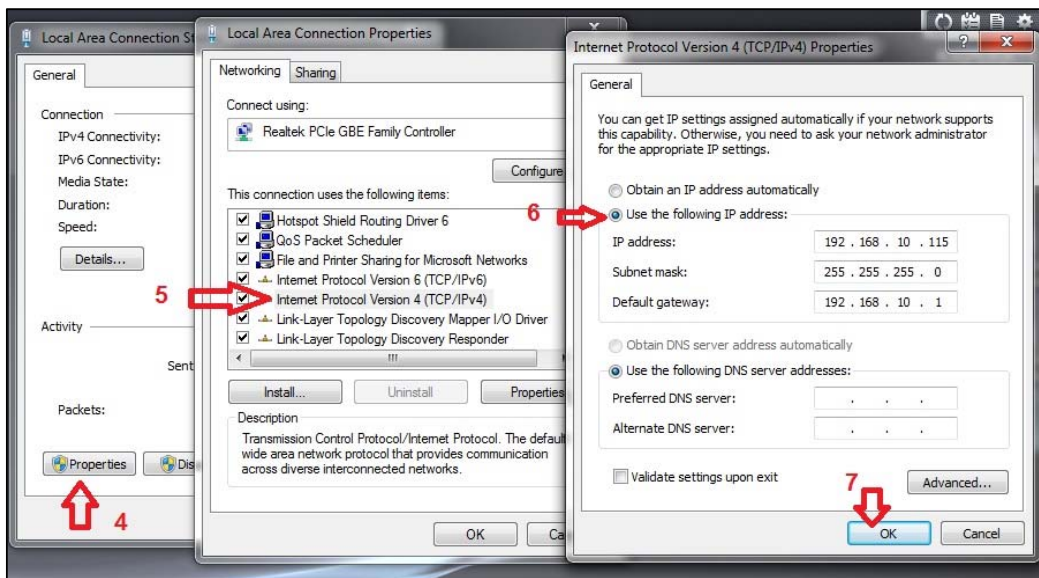
2- Plug in your Ethernet cable (Rj45) in your pc and the other end in the **RSIP** module or **Zaduio** module then **Set** your computer IP Address, for example

IP 192.168.**10**.115
Subnet 255.255.255.0
Gateway 192.168.**10**.1



The default address for S-bus Product is **192.168.10.xxx**

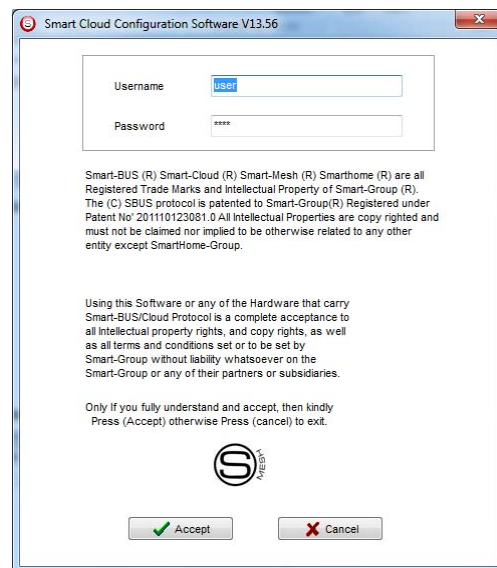




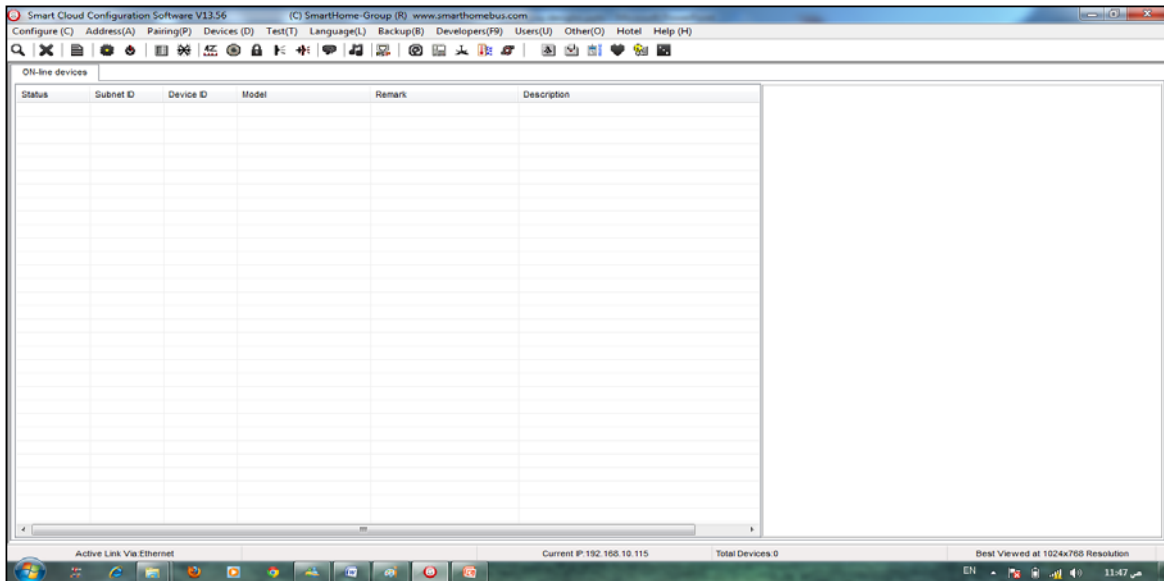
3- Run your S-bus smart cloud Software



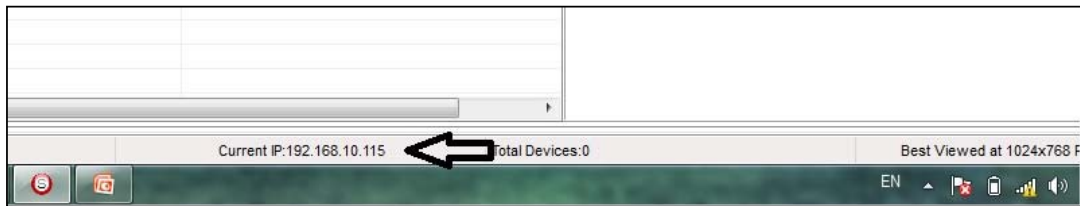
4- The Password window will open, type the default password is **user**




5- Your software will start



6- You can see your current IP on the footer of the software as 192.168.10.115 then your IP setting is ok.



 *Set your computer IP setting before starting the S-BUS Smart Cloud.*

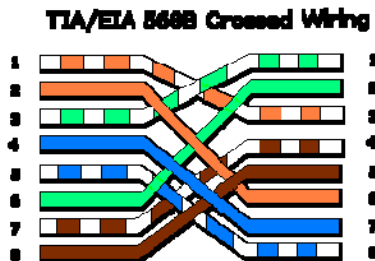
 *You should always reset your Module every time you change the IP Address in order the new setting to be Active.*

After you set your Module IP Address now you should connect the module to Your Computer Network in order to communicate. The connection can be in two ways

- 1- Connect the 1Port IP/RSIP Module to the HUB or Data Switch and connect your Computer to the same data Switch as standard straight cable Network wiring.



2- Without using the HUB or data switch you can use the cross cable to connect your computer directly to the IP Module, see the next cross wiring diagram of TIA/EIA 568B crossed wiring



You can use the Line command **Ping** to check your connection.

On your Computer, Go to start/ Run/ CMD then type Ping 192.168.10.xxx

If you see the following results similar to this Picture then your connection is successful

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>Ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time=45ms TTL=64
Reply from 192.168.0.1: bytes=32 time=39ms TTL=64
Reply from 192.168.0.1: bytes=32 time=2ms TTL=64
Reply from 192.168.0.1: bytes=32 time=2ms TTL=64

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 45ms, Average = 22ms

C:\Documents and Settings\Administrator>
```

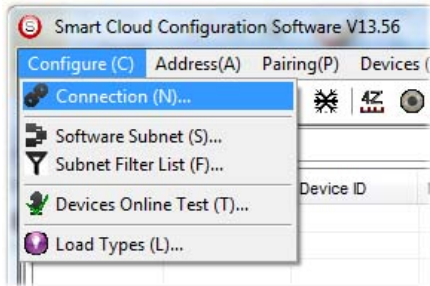


Always the Programmer should carry with his programming kit the cross cable for programming without needs of the Data Switch or HUB.



2-2 S-bus Smart cloud Software basic setting

Configure

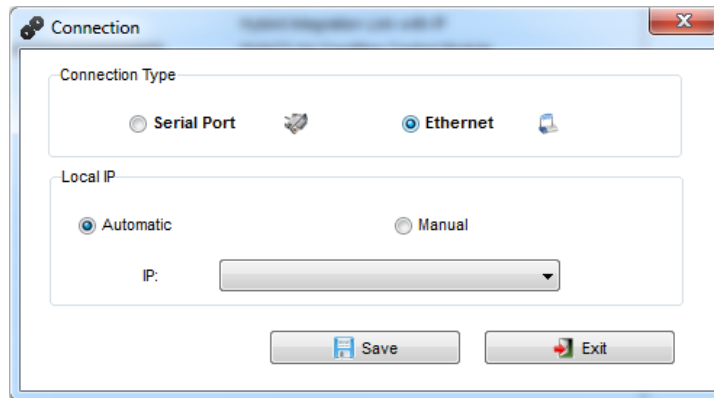


- **1- Connection**

You can change between Ethernet Connection and Serial Port connection,



the Serial Port connection is old, slow and no longer use. Always Keep the setting on Ethernet connection



Also you can choose between **obtain Local IP Automatically** (Default) , or to **input local IP Manually**.



Input local IP manually you can use it for example, if you are using in your laptop or computer Wireless and wired Network with different IP setting, and you want to choose the right one of it for programming, and don't want your S-bus software to detect your other IP address Automatically.



- **2- Software Subnet ID**

The S-bus configuration software have fixed Device ID (254), but you can change its subnet ID only, the default software subnet is (Default = 254)



The software default subnet ID address is 254, Device ID 254, this address must be unique, in case other Device has the same address you will not be able to find that Device unless you change the Subnet of the software.

- **3- Subnet Filter List:**

Here you can filter your subnet ID's that mean you can add more ranges if you have more than 254 devices so you can add another subnet ID

- **4- Devices On-Line test**

You can Deactivate or activate the auto test of Online devices (Activate is Default).

- **5- Load type**

You can add some Remarks to your Load type to use it as reference and print it out later on the excel sheet.

Address

Here you can search for the Device Addresses and load the Network and solve any conflict in the address. (For more Information see 3-2)

Pairing

You can enable pairing or disable either for one device or for all devices, disable meaning you can't program S-bus modules in manual anymore until you enable it again.

Devices

You can go here directly to Devices setting Categorized by type

Test

This is important Function to check your Lights Circuit by flashing the lights ON/OFF and then you can give it name (for more information see 3-3 section).

Language

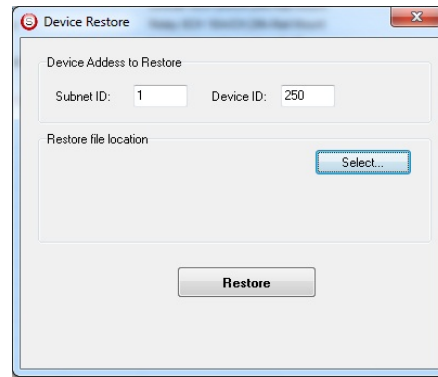
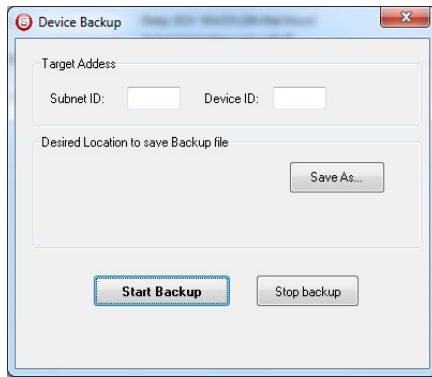
You can change the Language between English and Chinese, and other Languages

Backup

Important to backup and restore your Devices address and setting.

- For Backup: put the subnet and device ID for desire device , choose the location for the backup file then click "Start backup" ,
- For Restore: put the subnet and device ID for desire device, choose the backup which you already made then click "Restore".
-





2-3 Devices address and Search:

Each of S-bus Devices must have its own Address in the Network, the Address for each Device consist of 2 parts:

- ❖ **Subnet ID**
- ❖ **Device ID**

The subnet ID can be from 0 – 254

And the Device ID can be from 1 – 254

So you can put up to 65024 Deferent Devices in the same network with deferent subnet and device ID Address

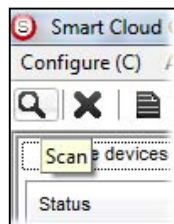
For example one of Dimmer Module Address is (Subnet 1, Device ID 5)

There is 5 ways to Search for the Devices in the Smart cloud Software

- 1- Fast Search
- 2- Advanced Search
- 3- Manually Search
- 4- Broadcast Address Device Search
- 5- Solve Conflict address search

Fast Search

The Fast search is very useful tools to test your communication and search your devices Fast , the Fast search take around 2-15 seconds to finish load the devices information in your network.



- Click on the **Scan** button
- Click on the **Fast search Button**
- Click **add all**
- Click **Exit** to exit the Window






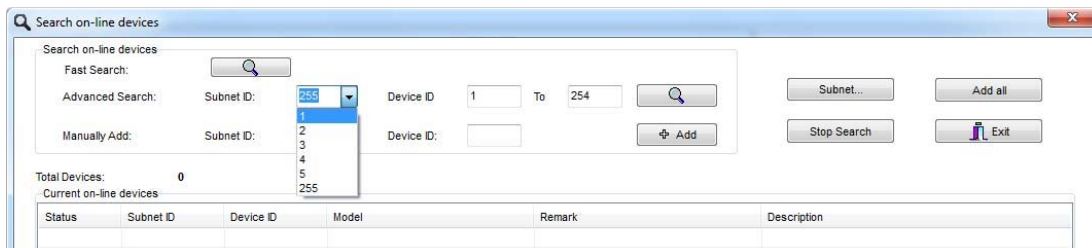
! *Fast search can't load all the Network Devices, it is only load part of the devices, it is only good for small project that contain around 10 devices, and to check the network communication with your PC.*

Advanced Search

The Advanced Search is a powerful tool for searching your Devices in the network. You can set the Subnet ID you like to search on it and select the range of device ID you want to search for.

Advanced search take 0.3 seconds for each device to load and total of 80 seconds to finish the search and load for 255 devices totally in each subnet.

- Click on the Online Search button 
- Go to **advanced search** , put the subnet ID and the range of device ID search



- Click **search ICON**
- Click **ADD ALL** after the search finish
- Click **Exit** to exit from the window
- click **stop** to stop the search
- Click **subnet** to add new subnet to the popup Menu subnet list



Use the Advanced Search Always as your standard way to Load the Devices in the Network to your computer before you program in any new project.

Manual Search

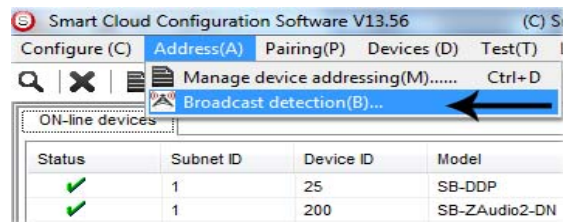
Manual Search is a very fast and useful way to add known Device ID and subnet to your network

Manually Add:	Subnet ID:	<input type="text"/>	Device ID:	<input type="text"/>	<input type="button" value="Add"/>
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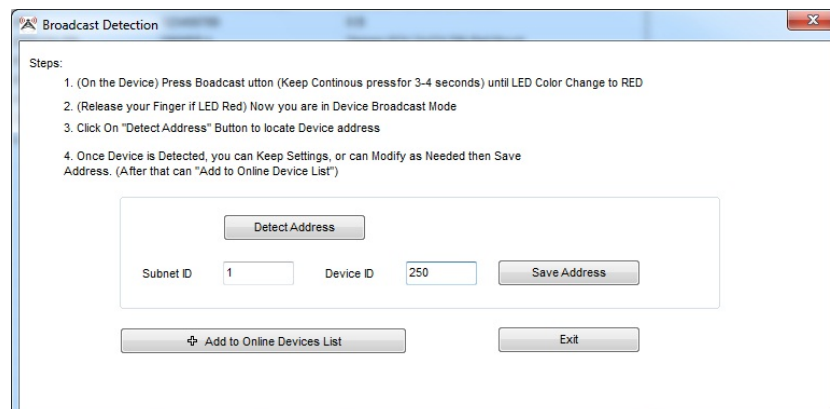
- Type the subnet and device ID that you know
- Click ADD
- Exit the Menu

Broadcast Address Device Search

This tool is important when you add new devices or you start your new Project installation, many devices could have the same Address or the communication is not yet tested, this tool is important to check the communication between your device and the bus network and to change its initial address in the first time installation.




- On your software Click **Address** then **broadcast detection**
- Go to your device like Dimmer / Relay / sensor or Panel and keep pressing the **broadcast Address button** for 2 ~ 4seconds until the button LED color change to **RED**.
- In your software in the Broadcast Detection window click the **Detect Address Button**.
- Your Device ID and Subnet well appear automatically
- To change the address just type the new subnet ID or device ID you want then click **Save Address**
- Click **ADD to online device list** to load your device in the Devices Network List.
- Click **Exit** to Close the Window

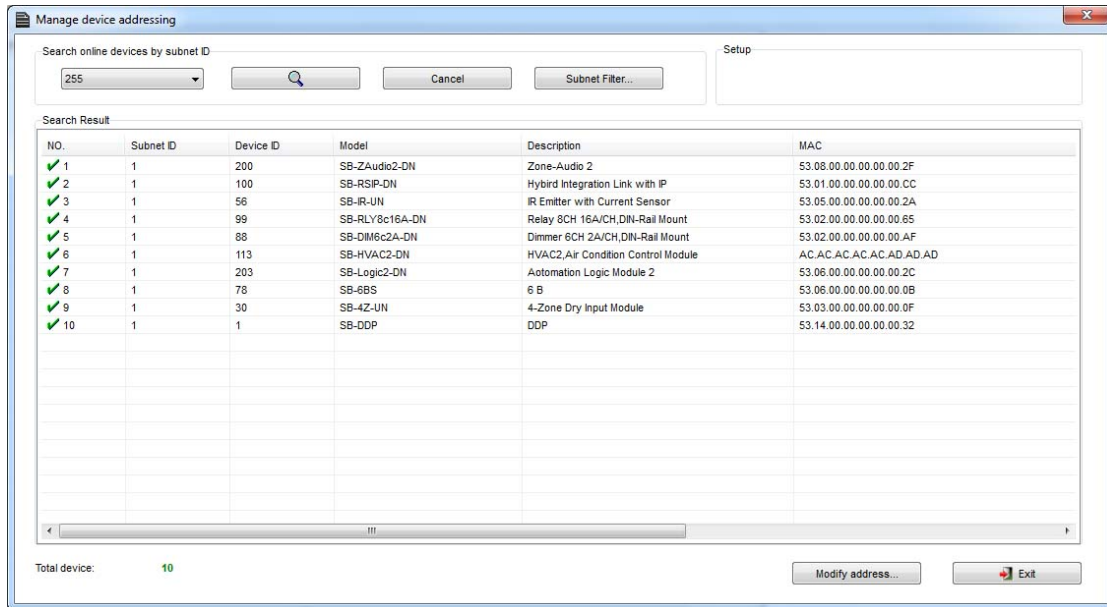




Solve Conflict address search

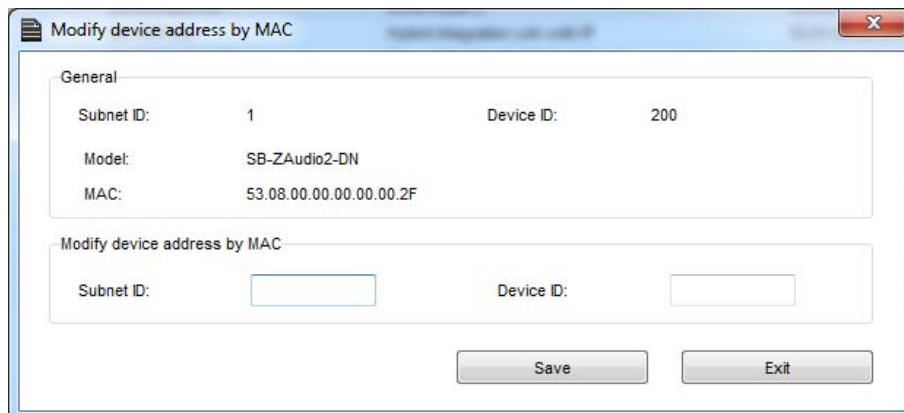
This type of search used to solve the conflict address, for example if 2 devices have the same address, then you can easily change the address of it without the need of disconnecting its wires from the network.

- Click **Address** or click the Address Shortcut icon 



NO.	Subnet ID	Device ID	Model	Description	MAC
✓ 1	1	200	SB-ZAudio2-DN	Zone-Audio 2	53.08.00.00.00.00.2F
✓ 2	1	100	SB-RSP-DN	Hybrid Integration Link with IP	53.01.00.00.00.00.CC
✓ 3	1	56	SB-IR-UN	IR Emitter with Current Sensor	53.05.00.00.00.00.2A
✓ 4	1	99	SB-RLY8c16A-DN	Relay 8CH 16A/CH,DIN-Rail Mount	53.02.00.00.00.00.65
✓ 5	1	88	SB-DIM6c2A-DN	Dimmer 6CH 2A/CH,DIN-Rail Mount	53.02.00.00.00.00.AF
✓ 6	1	113	SB-HVAC2-DN	HVAC2,Air Condition Control Module	AC.AC.AC.AC.AC.AD.AD
✓ 7	1	203	SB-Logic2-DN	Automation Logic Module 2	53.06.00.00.00.00.2C
✓ 8	1	78	SB-6BS	6 B	53.06.00.00.00.00.0B
✓ 9	1	30	SB-4Z-UN	4-Zone Dry Input Module	53.03.00.00.00.00.0F
✓ 10	1	1	SB-DDP	DDP	53.14.00.00.00.00.32

- Select Subnet **255 (recommended)** or any desired subnet then click the search icon.
- Select the device you want to modify its address then click **modify Address** or double click on it
- New window will open, and then type the new Subnet ID and Device ID, then Click **Save**



2-4 Steps of Basic Programming

The Basic Programming for Lighting Motor and HVAC of S-bus Products has procedure of Basic Steps as following

- A- Check the communication between your computer and the Bus
- B- Broadcast each Dimmer, Relay, Motor curtain HVAC control++ initial Address
- C- Change the initial addresses to the desired one (**kindly check 2.5 for addresses range**).
- D- Give name of each Dimmer, Relay Module (Remark).
- E- Check each Lighting channel circuit if working and connected good
- F- Give name for each channel (remark).
- G- Make an excel sheet for all your Dimmers, relays, other module address and circuit name.
- H- Make Area for each Dimmer, Relay module if required .
- I- Make Scene and Sequence for each Module if required .
- J- Make safety power restore and delay time for scenes and safety as required.
- K- Check the curtain module gives it address and name.
- L- Set the channel name, the running time open and close running time.
- M- Give the switch (6 gangs) and panel (DDP) its addresses and Name.
- N- Assign the panel button to the corresponding scene or channel.
- O- Set the button graphic picture for the DDP for each button.
- P- Check the HVAC address give it address and name.
- Q-Set on off relay sequence.
- R- Set the VAV Voltage output if required.
- S- Set the safety HVAC running sequence T- assign the DDP Panel to its HVAC unit.
- U- Set the FAN speed, cool set point, type, adjust temperature sensor on the panel setting.
- V- Set the required graphic for AC, and panel basic setting
- W- Search for PIR motion sensor and give it address and name
- X- Set the sensitivity, way of triggering, motion, no movement delay and commands
- Y-connect the Z-audio 2 to the s-bus And address it
- Z-Test and enhance your programming.



Following the basic Programming steps procedure will save the programmers time and effort.

2-5 What is The Magic Line In our software ? :

In programming in all S-bus Modules you will find the same line with same fields that's why we called it "Magic Line" .

If you want to send any command you have to use this magic line.

Modify button function configuration						
Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	50	Invalid switch	1	2	N/A
2	10	11	Invalid switch	12	13	N/A
3	255	255	Invalid switch	255	255	N/A
4	255	255	Invalid switch	255	255	N/A
5	255	255	Invalid switch	255	255	N/A

If you notice the Command Line is contained of :

Function No. : indicated to Order/Function Number , the maximum order you can put is depend of the module .

Subnet ID : each device has subnet ID in our software you can put up to 254 subnet ID.

Device ID : additional to the Subnet ID also each device must has unique ID to avoid the conflict . and the range is 254.



Each Subnet ID can cover 254 devices and we have 254 subnet ID that means the total Number is 64516 devices.

Type : What type of order you want to send, if you notice in the following pic the system has many types depend on the module

Modify button function configuration						
Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	50	Scene switch	1	2	N/A
2	10	11	Invalid switch	12	13	N/A
3	255	255	Scene switch	255	255	N/A
4	255	255	Sequence switch	255	255	N/A
5	255	255	Universal switch	255	255	N/A
			Single channel lighting			
			Curtain switch			
			SMS control			
			Panel control			
			Broadcast scene			
			Broadcast channel			
			Security module			
			Zone-Audio 2			

Parameter 1 ,Parameter 2 and Parameter 3 are related to "TYPE" field like this Table :

Function type	Parameter 1	Parameter 2	Parameter 3
Invalid	N/A	N/A	N/A
Scene Switch	Area Number	Scene Number	N/A
Sequence Switch	Area Number	Sequence Number	N/A
Universal Switch	Switch Number	ON / OFF	N/A
Single channel	Channel Number	Brightness 0-100%	Fade time 0S - 60 M
Curtain Switch	Switch Number	Stop / ON/ OFF	N/A
SMS	Message	Message SMS Number	N/A
Panel	Invalid	N/A	N/A
Panel	IR Receiver	ON / OFF	N/A
Panel	Lock	ON / OFF	N/A
Panel	AC Power	ON / OFF	N/A
Panel	AC Cooling	0-30 C , 32- 86F	N/A
Panel	ACFan Speed	Auto/high/med/slow	N/A
Panel	AC Mode	Auto/Cooling/Heating/FA	N/A
Panel	AC Heating	0-30 C , 32- 86F	N/A
Panel	Rise temp	0-30 C , 32- 86F	N/A
Panel	Reduse temp	1-5 C/F	N/A
Panel	LCD Backlit	ON / OFF	N/A
Panel	LCD status ligh	1~100	N/A
Panel	Floor heating power	ON / OFF	N/A
Panel	Floor heating mode	Normal-day-night -away	N/A
Panel	Goto page	1~7	N/A

Function type	Parameter 1	Parameter 2	Parameter 3
Broadcast scene	All Areas	Scene Number	N/A
Broadcast Channel	ALL Channel	Brightness 0-100%	Fade time 0S - 60 M
Security Module	Area Number	Arming Mode	N/A
Zone-audio 2	Source Control	SD Card/Audio In/FTP Server/FM Radio	N/A
Zone-audio 2	Play Mode	No Repeat/ Repeat Song/ Continued/ Repeat all	N/A
Zone-audio 2	Play List/Radio Channel	PREV Play List/Next Play ListSpecify Play List No/PREV	N/A
Zone-audio 2	Play Control	PREV Song/Next Song/Play/Stop	N/A
Zone-audio 2	Volume	VOL	0-100
Zone-audio 2	Volume	TREBLE	Reduce/increase
Zone-audio 2	Volume	BASS	Reduce/increase
Zone-audio 2	Play Specify Song	Folder No.	Song No.

3-Logic Module:

3-1 Logic Overview:

Central Time Clock and Main Automation Controller. It is the smart system servant that assist and monitor temperature, events, energy consumption, patterns, with main Targets: maintain, safeguard, protect and economize. It Can Trigger prayer announcements, reminders, alerts, macros, and moods. Each Logic module Consist of 240 tables, Each Table of 4 programmable Logic Lines totaling up to 960 Line of Logics using simplified (and, Or Nand, Nor, with 255 Flags). Logical condition consist of trigger combinations like: time, scene Light channel status, curtain status, room temperature, security mode, day night, time... and so on

3-2 Logic time and location sitting :

In the time and location tab you can easily change the time and the date of the system

Also you can select your exact location from **Location** button which is good to calculate Sunrise and sunset time accordingly to your location:

The screenshot displays the 'Time and Location' configuration window. At the top, there are three tabs: 'General', 'Logic', and 'Time and Location'. The 'Time and Location' tab is active. Below the tabs, there is a 'Select device' section with a dropdown menu showing '1-203-SB-Logic2-DN'. The 'Date Time of Logic Module' section includes a date picker set to 'Monday, October 29, 2012' and a time picker set to '12:20:4' (hh:mm:ss). There is a checkbox for 'Modify time synchronously with destine logic device' and buttons for 'PC Time', 'Refresh', and 'Save'. The 'Geographic Location' section has input fields for Latitude (25 Degree 15 Minute) and Longitude (55 Degree 17 Minute), a 'Location' button, a time zone dropdown set to '(GMT) +04:00', and a checkbox for 'Method For Prayer Times'. A box at the bottom left shows 'Sunrise Time 5:51' and 'Sunset Time 18:44'. A 'Save' button is located at the bottom right.



The timing that shown on the DDP is token from the Logic central time .

For Muslim Prayer times you can check “**method for prayer Times**” then you will get multi options you choose according to your Location “juristic” “Doctrine”. After you click save you will get prayer times (Fajer, Dhuher, ASR, Magreb, and Isha) :

Geographic Location

Latitude + 25 Degree 15 Minute

Longitude + 55 Degree 17 Minute

Time zone (GMT) +04 : 00 ☒ Method For P

Fajr: 4:28
 Sunrise: 5:51
 Dhuhr: 12:18
 Asr: 15:48
 Maghrib: 18:44
 Isha: 20:14

Dhuhr Maghrib Prayer Time

Dhuhr 1 Maghrib 1

☐ Day Light Savings

Shift 1 Hour before(MD): 4 1

Shift 1 Hour after(MD): 8 1

Juristic Methods(For Asr prayer)

☒ Standard(Imams Shafii,Hanbali,and Maliki) ☐ Hanafi

Method for Prayer Times

☐ Muslim World League

☐ Egyptian General Authority of Survey

☐ University of Islamic Sciences,Karachi

☒ Umm Al-Qura

☐ North America

☐ Twilight Angle in degress Fajr: Isha:

Now for **logic** tab you have **20** pages , you can put your commands here on the black screen

General Logic Time and Location

Select device

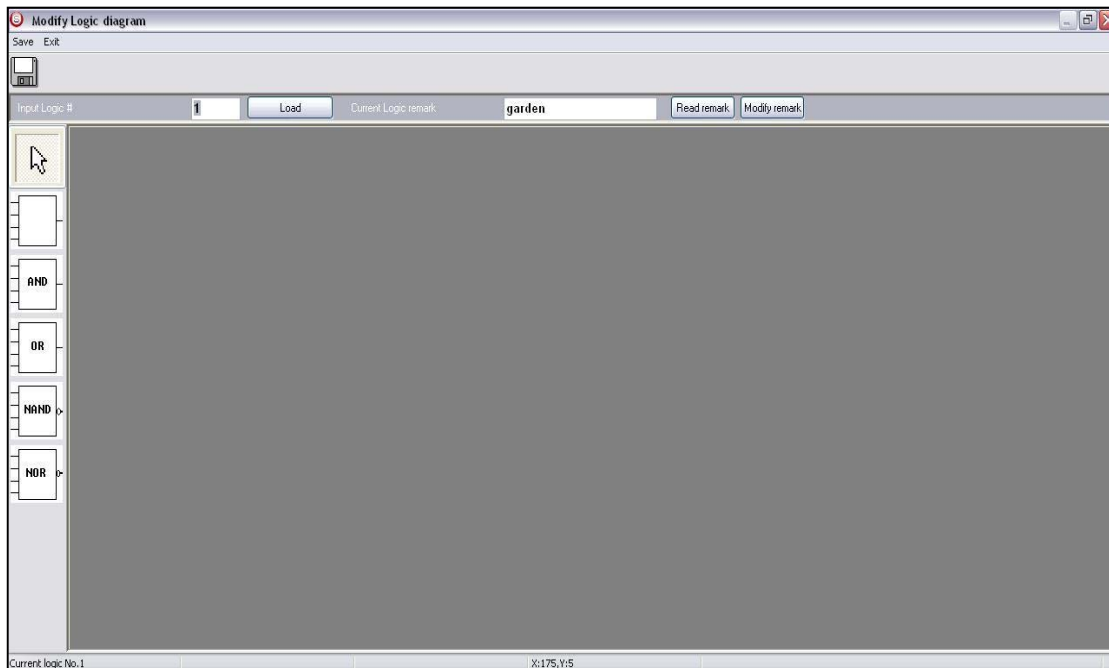
Device 1-203-SB-Logic2-DN ☒ Equipment activation

Select Logic

Logic NO: 1:garden

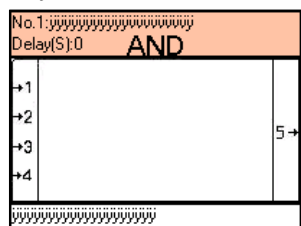
Double click on the blank screen to enter “Modify mode” :





The concept of the logic like the following:

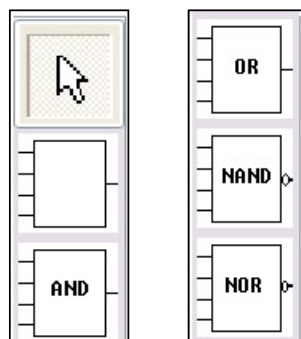
- Put your conditions as blocks :



- If the statuses of these conditions are true then your commands accordingly to your conditions will execute.

3-3 Logic And, OR, NAND, NOR Conditions

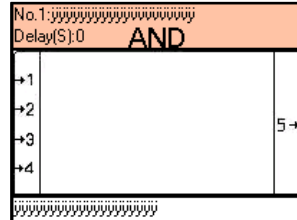
- You have on the right side **4** logic blocks you can use it as you want : (And ,Or, Nand , Nor)



- **And** : must be all the input (s) **true** (on) to execute the output.



You have in each block (box) 4 inputs .



- **OR** : if any input of the 4 inputs **true**(on) the output will execute direct even if the other inputs not true
- **Nand** : must be all of the input(s) **false** (off) to execute the output
- **NOR**:if any input **false** (off) then the output will execute .

3-4 Logic pin setup :

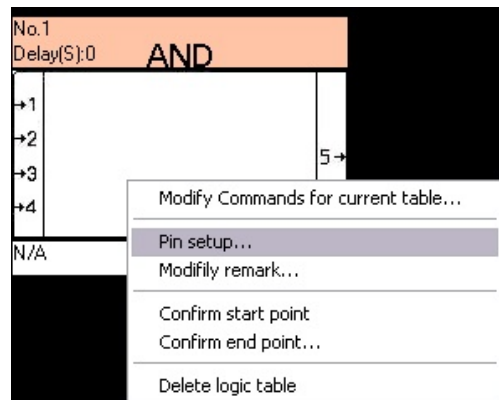
In Logic module there are inputs (conditions) and output (commands).

Lets say you want if the time is sunset (this is the input as a condition).

Also lets say you want turn on the garden lights if sunset (this is the output as a commands).

To put an input(s) :

- open the logic module through smart cloud software .
- go to logic tab .
- choose any page from 1~20 .
- double click on the blank screen ,drag the suitable box (And ,OR,Nand,Nor) and drop it on the blank screen.
- Right click on that box and select "Pin setup"



You will get the input window that has two sections :

1- Relation section :

You can change the type of the box AND to Nor to OR to Nand and vice versa



Modify relation of input pins

Relation: AND

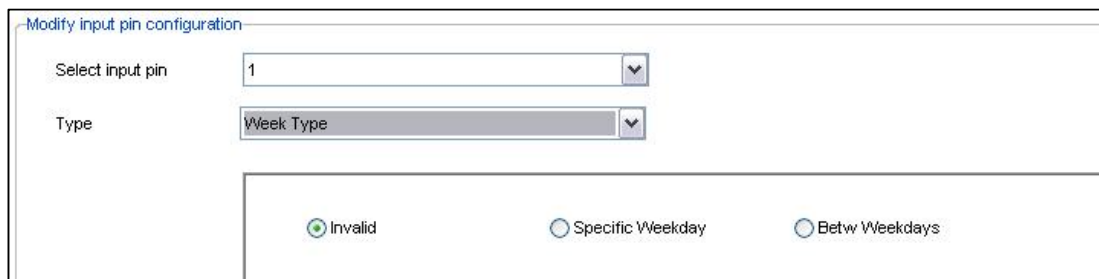
Delay: 0 : 0 : 0 (HH:MM:SS)

2- Pin Configuration section :

In this section we have two options

- Select input Pin : you can choose any in put sense you have 4 inputs in each box.
- Type : you can link for each input the following types:

- Week type :



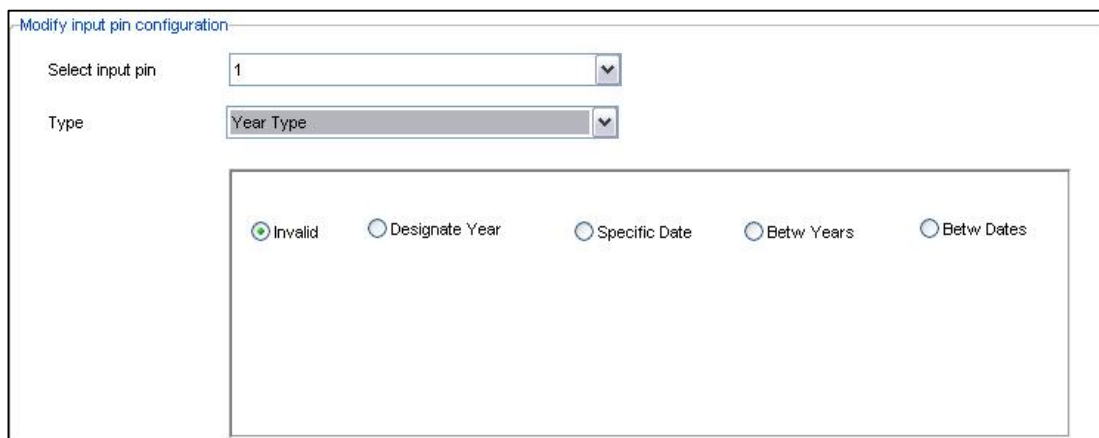
Modify input pin configuration

Select input pin: 1

Type: Week Type

☒ Invalid ☐ Specific Weekday ☐ Betw Weekdays

- Year Type:



Modify input pin configuration

Select input pin: 1

Type: Year Type

☒ Invalid ☐ Designate Year ☐ Specific Date ☐ Betw Years ☐ Betw Dates

- Time Type:

Modify input pin configuration

Select input pin: 1

Type: Time Type

☐ Invalid
 ☒ Specific Time(H:M)
 ☐ Betw Time(H:M)

Select Mode: Time

Time At Point: 0 : 0

At Point

- Device channel status:

Modify input pin configuration

Select input pin: 1

Type: Device channel status

☐ Automatically detect Re-trigger Enable

Address From

subnet ID: 0
 device ID: 0
 Channel: 1
 Channel status: OFF

You can choose any channel from any dimmer or relay as an input:



if channel **No.1** from dimmer address **50** that has subnet **1** if its **ON** send me an SMS. Or whatever ...

- Device Scene status

Modify input pin configuration

Select input pin: ☐ Automatically detect Re-trigger Enable

Type:

Address From

subnet ID:

device ID:

Area:

Scene:

Also you can use any scene as an input.



If scene **No 1** in dimmer address **50** ,subnet **1**, in **Area 1** then switch on the AC .

- Device Sequence status

Modify input pin configuration

Select input pin: ☐ Automatically detect Re-trigger Enable

Type:

Address From

subnet ID:

device ID:

Area:

Sequence:

Same like scene status.

- Logic switch

Modify input pin configuration

Select input pin: 1 ☐ Automatically detect Re-trigger Enable

Type: Logic Switch

Logic Switch: 1

switch status: OFF

Remark: curtain on

Logic switch like a flag , you ask the system to excute some commands according to the result of this flag if **ON** or **OFF**.

- Logic switch: you have from 1~254 flag
- Switch status: ON/OFF
- Remark: just remark to recognize which flag you are using now.



: let's say you create two box :

- the input for the first box is :**if sunset** and the output : **create flag 200 on**
- the input for BOX 2 :**if flag200 on** and the output **turn on all lights**

- Device universal status :

Modify input pin configuration

Select input pin: 1 ☐ Automatically detect Re-trigger Enable

Type: Device universal status

Address From

subnet ID: 0

device ID: 0

UV Switch: 1

switch status: OFF

Its same like Logic switch but this one for the external flag not the logic flag



: There is deffrence between enternal flah and exrenal flag the first one : for the logic module , the second one for external device like 9in1 sensors.

- Panel status (DDP)

Modify input pin configuration

Select input pin: 1 ☐ Automatically detect Re-trigger Enable

Type: Panel status

Device subnet ID: 0

Device ID: 0

Device pnael No: Invalid

Device pnael status: Invalid
IR Receiver
Lock key of panel
AC Power
AC Cooling Setpoint
AC FAN Speed
AC Mode
AC Heating Setpoint
AC Auto Setpoint

Here you can use all the functions in the DDP as an inputs.



IF AC in Living room ON ,then put the fan speed on HIGH

- Security Status

Modify input pin configuration

Select input pin: 1 ☐ Automatically detect Re-trigger Enable

Type: Security Setting

Subnet ID: 0

Device ID: 0

Area: 0

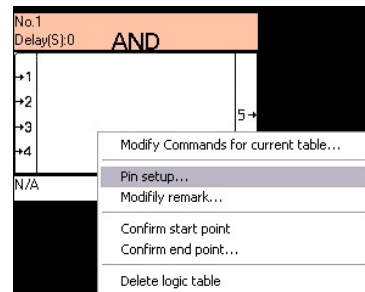
Type:

Also all features in security module you can use it as an input like :
AWAY,NIGHT,DAY,OFF

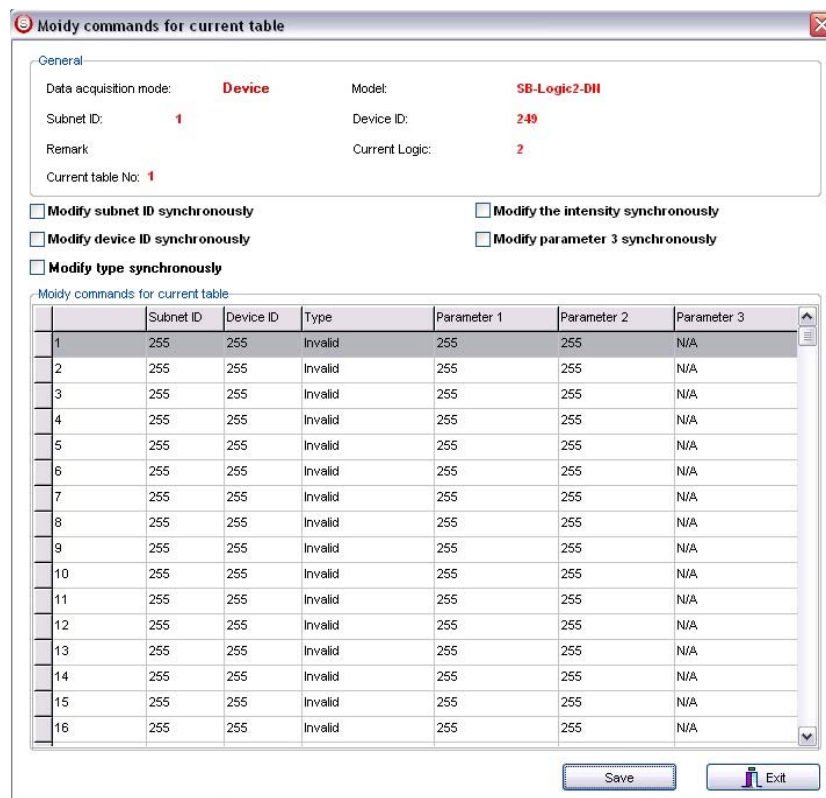
3-5 Logic Modify output

The Output is exactly like any S-bus commands ,Like MAGIC LINE (see 2-5)
To put an output(s) :

- open the logic module through smart cloud software .
- go to logic tab .
- choose any page from 1~20 .
- double click on the blank screen ,drag the suitable box (And ,OR,Nand,Nor)
- and drop it on the blank screen.
- Right click on that box and select "Modify Commands for current table"



You will get this window :



Now Like any s-bus Commands put your desire commands for output.

For More info please Enjoy our youtube channel : <http://www.youtube.com/SmartG4/>

