A decorative graphic on the left side of the slide. It consists of several vertical lines of varying heights and widths in shades of orange. To the right of these lines are five solid orange circles of different sizes, arranged in a roughly descending staircase pattern from top-left to bottom-right.

IP-LNB(GSS4P) UPDATER QIG

PREPARE

○ EQUIPMENT

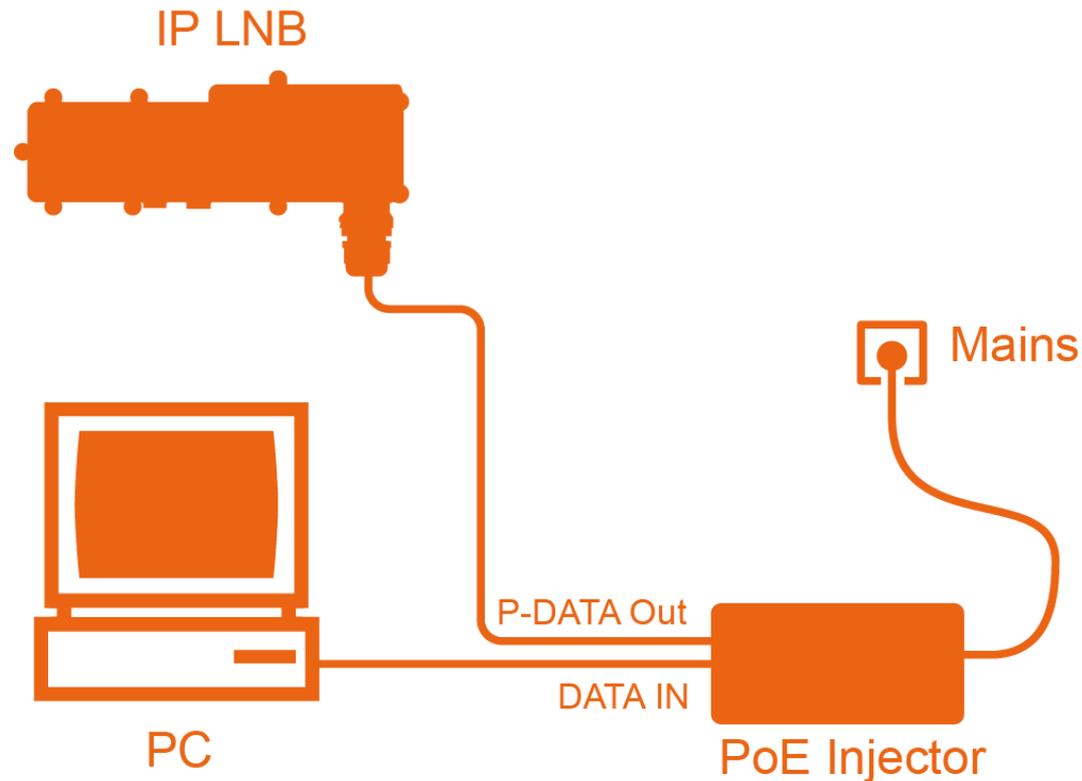
1. PC x 1 (Windows system : Win 7 32 bit, Win7 64 bit, Win XP 32 bit.)
2. Network cable(RJ-45) x 2 pcs
3. PoE injector x 1 pcs
4. SELEFSAT IP-LNB x 1pcs

○ PC ENVIRONMENT

1. Disable antivirus, malware software and firewall.
2. Disable wireless connection.
3. PC account shall be administrator



CONNECTION DIAGRAM



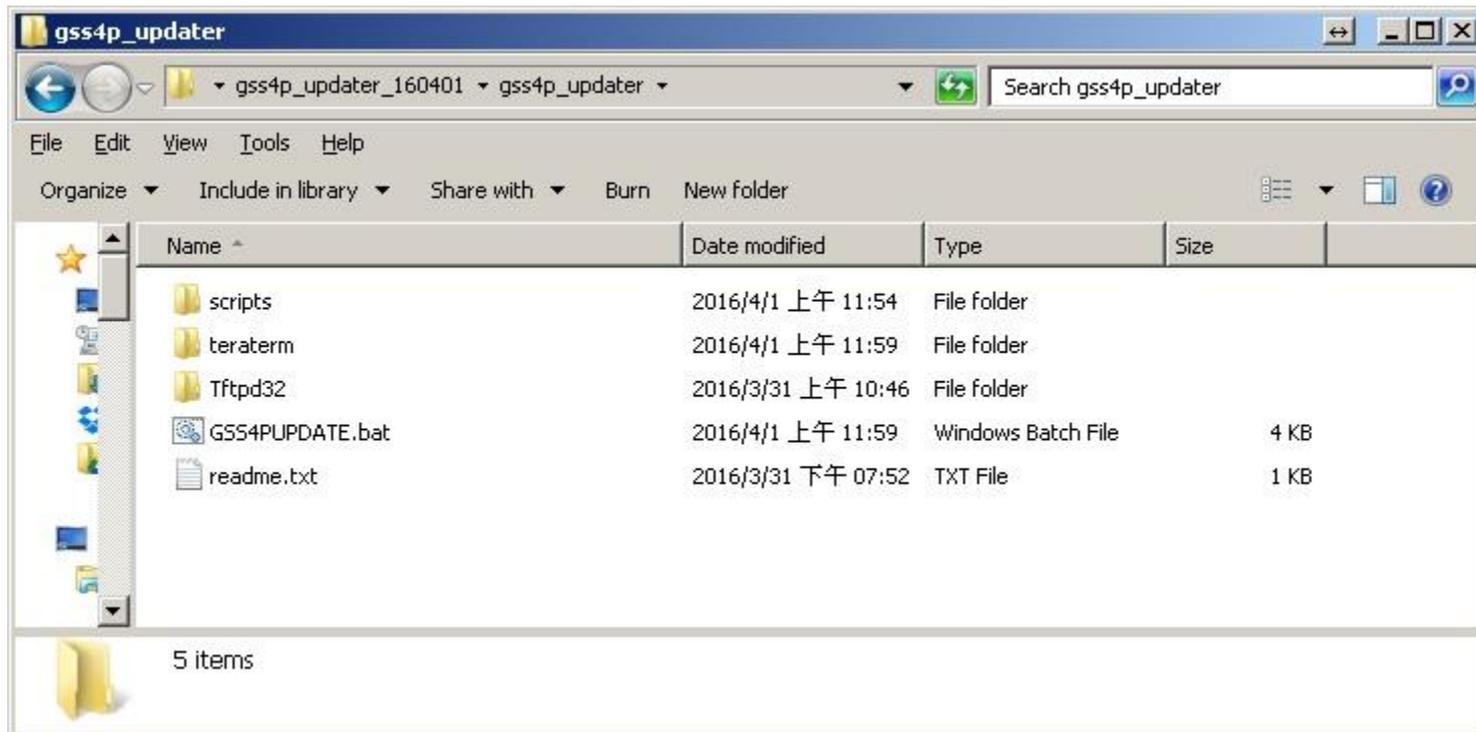
Note.

1. Connect SELEFSAT IP-LNB to port “P-DATA Out” of PoE injector
2. Connect PC to port “DATA IN” of PoE injector. PC will get auto IP, e.g. 169.254.xxx.xxx
3. **Make sure only one SELEFSAT IP-LNB is in same network.**



UPDATE STEP

1. Copy firmware tool (gss4p_updater_xxx.zip) to pc disk (C: or D:)
2. Unzip firmware tool the folder name is “gss4p_updater_xxx”
3. Double click “GSS4PUPDATE.bat” in gss4p_updater folder.



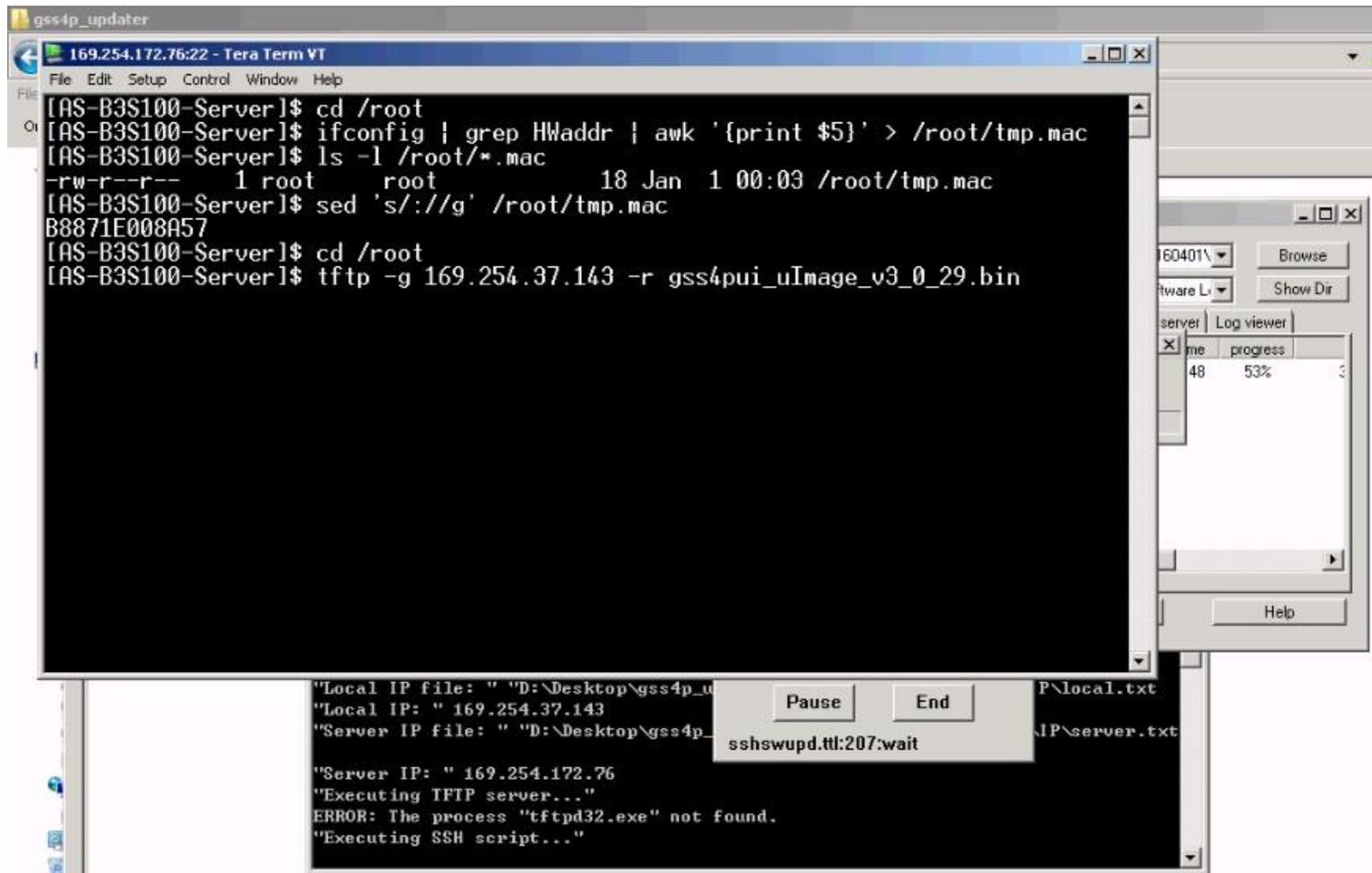
UPDATE STEP

4. Select “RUN” to allow PC run “GSS4PUPDATE.bat”. Remove the tick or PC will ask your permission every time.



UPDATE STEP

5. GSS4P Updater will run Tera Term and TFTP32 automatically



The screenshot displays the GSS4P Updater interface. The main window is a Tera Term terminal window titled "169.254.172.76:22 - Tera Term VT". The terminal output shows the following commands and results:

```
[AS-B3S100-Server]$ cd /root
[AS-B3S100-Server]$ ifconfig | grep HWaddr | awk '{print $5}' > /root/tmp.mac
[AS-B3S100-Server]$ ls -l /root/*.mac
-rw-r--r--  1 root    root        18 Jan  1 00:03 /root/tmp.mac
[AS-B3S100-Server]$ sed 's/://g' /root/tmp.mac
B8871E008A57
[AS-B3S100-Server]$ cd /root
[AS-B3S100-Server]$ tftp -g 169.254.37.143 -r gss4pui_uImage_v3_0_29.bin
```

Below the terminal window, a log viewer window is visible, showing a table with columns "time" and "progress". The table contains one entry:

time	progress
48	53%

At the bottom of the screenshot, a dialog box with "Pause" and "End" buttons is overlaid on a log window. The log window displays the following text:

```
"Local IP file: " "D:\Desktop\gss4p_u...
"Local IP: " 169.254.37.143
"Server IP file: " "D:\Desktop\gss4p...
"Server IP: " 169.254.172.76
"Executing TFTP server..."
ERROR: The process "tftpd32.exe" not found.
"Executing SSH script..."
```



UPDATE STEP

6. Erase and update firmware will take some time, please wait a moment. **[PLEASE DO NOT TURN OFF POWER]**

```
169.254.172.76:22 - Tera Term VT
File Edit Setup Control Window Help
[AS-B3S100-Server]$ cd /root
[AS-B3S100-Server]$ ifconfig | grep HWaddr | awk '{print $5}' > /root/tmp.mac
[AS-B3S100-Server]$ ls -l /root/*.mac
-rw-r--r--  1 root   root      18 Jan  1 00:03 /root/tmp.mac
[AS-B3S100-Server]$ sed 's://g' /root/tmp.mac
B8871E008A57
[AS-B3S100-Server]$ cd /root
[AS-B3S100-Server]$ tftp -g 169.254.37.143 -r gss4pui_uImage_v3_0_29.bin
[AS-B3S100-Server]$ ls -l *.bin
-rw-r--r--  1 root   root      7090769 Jan  1 00:03 gss4pui_uImage_v3_0_29.
bin
[AS-B3S100-Server]$ fw_tool update -n uImage1 -f gss4pui_uImage_v3_0_29.bin
Erasing '/dev/mtd4' (uImage1)
Updating '/dev/mtd4' (uImage1) with 'gss4pui_uImage_v3_0_29.bin' (7090769 bytes)
```



UPDATE STEP

7. GSS4P Updater will show a message when firmware update is finished

The screenshot illustrates the final step of the GSS4P firmware update process. It shows a Windows desktop environment with several windows open:

- File Explorer:** Displays a directory structure including folders for 'IP', 'log', 'scripts', 'teraterm', and 'Tftpd32', along with files like 'GSS4PUPDATE.bat' and 'readme.txt'.
- Command Prompt (cmd.exe):** Shows the execution of 'GSS4PUPDATE.bat'. The output includes:
 - DHCP Enabled: Yes
 - DHCP Server: 0.0.0.0
 - Lease Obtained: Thu Jan 01 08:00:00
 - Lease Expires: Tue Jan 27 18:40:00
 - Have Wins: No
 - Network statistics: total num adaptors = 3, total valid adaptors = 1, Local IP: 169.254.37.143, Total cost: 0.300000
 - Find SatIP Server IP: 169.254.172.76
 - Local IP file: "D:\Desktop\gss4p\local.txt"
 - Server IP file: "D:\Desktop\gss4p\server.txt"
 - Server IP: "169.254.172.76"
 - Executing IFTP server...
 - ERROR: The process "tftpd32.exe" not found.
 - Executing SSH script...
- Tftpd32 by Ph. Jounin:** A utility window with settings for 'Current Directory' (D:\Desktop\gss4p_updater_160401\), 'Server interfaces' (127.0.0.1), and various server options like 'Tftp Server', 'Tftp Client', 'DHCP server', 'Syslog server', and 'Log viewer'.
- Software Image Update:** A dialog box with an information icon and the text: 'GSS4P Firmware update successful. Power can be disconnected now.' with an 'OK' button.





LOG COLLECTION

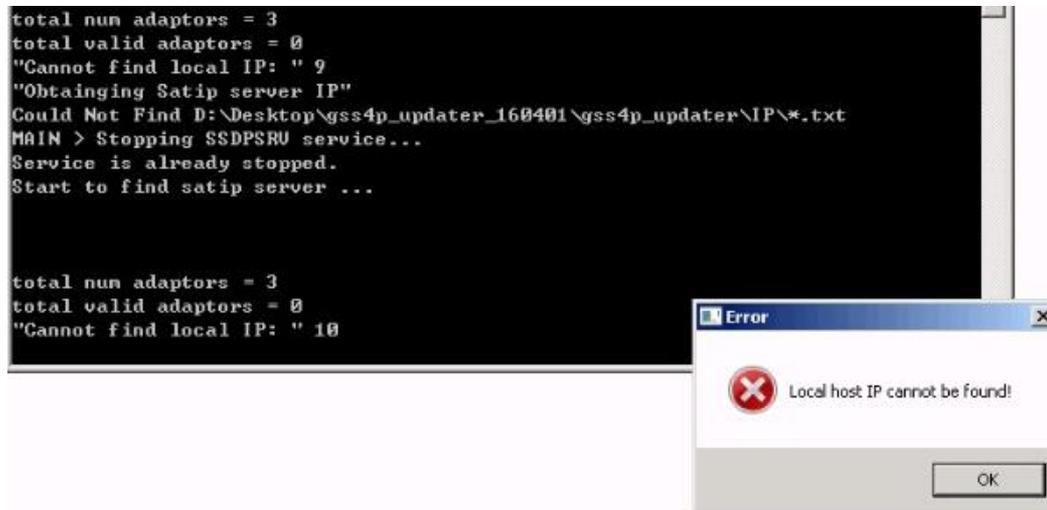
- When all the GSS4Ps have been updated
 1. Go to gss4p_updater folder, there should be a subfolder called log.
 2. Please kindly compress this log folder to a zip file and send us. This will allow us to keep a record of the devices which have the latest firmware.



TROUBLESHOOTING

○ CAN'T GET LOCAL IP

1. Please check whether PoE injector is power on. If yes, it would show a green LED
2. Please check whether PC and SELFSAT IP-LNB are connected to PoE injector properly



TROUBLESHOOTING

- More than one valid network interface
 1. Please check whether PC has wireless connection. If yes, please disable it.

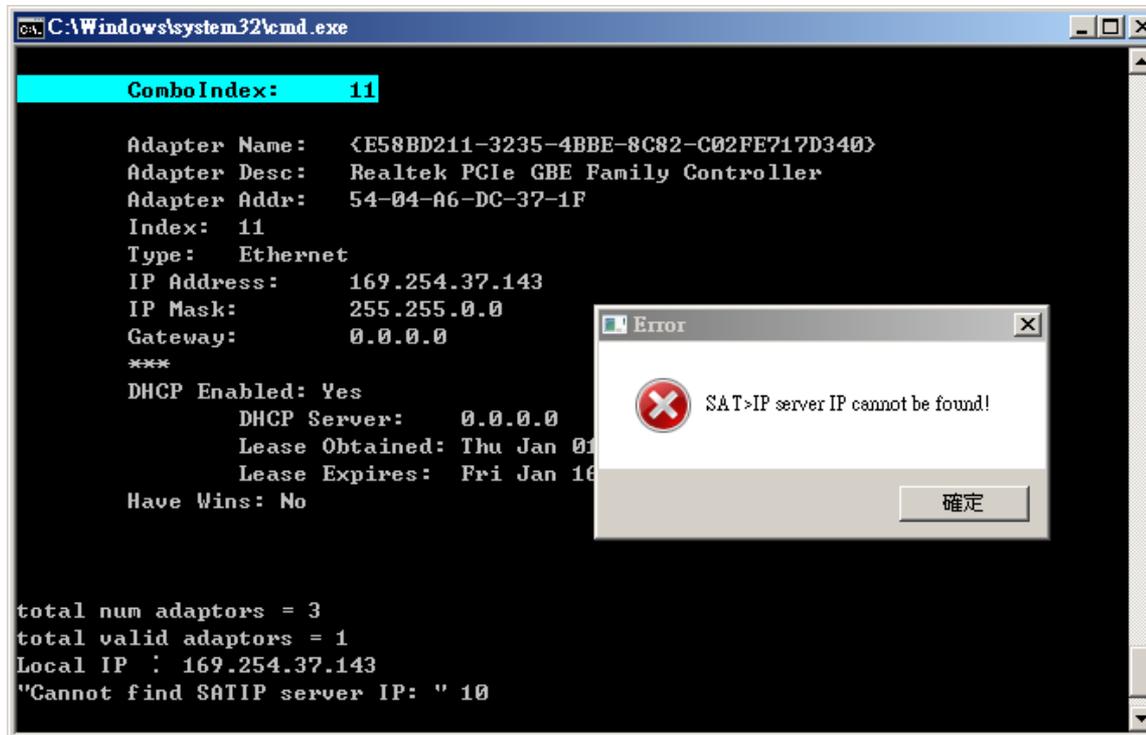
```
=====  
Combo Index: 11  
  
Adapter Name: {E58BD211-3235-4BBE-8C82-C02FE717D340}  
Adapter Desc: Realtek PCIe GBE Family Controller  
Adapter Addr: 54-04-A6-DC-37-1F  
Index: 11  
Type: Ethernet  
IP Address: 192.168.6.57  
IP Mask: 255.255.255.0  
Gateway: 192.168.6.1  
***  
DHCP Enabled: Yes  
DHCP Server: 192.168.6.1  
Lease Obtained: Fri Apr 01 13:35:39 2016  
Lease Expires: Sat Feb  
Have Wins: No  
  
total num adaptors = 5  
total valid adaptors = 2
```

Error
More than 1 valid network interface
Please edit batch file to designate a ComboIndex
OK



TROUBLESHOOTING

- Can't get server IP
 1. Please try again. Maybe SELFSAT IP-LNB is not ready yet.



The screenshot shows a Windows command prompt window titled "C:\Windows\system32\cmd.exe". The output of the command is as follows:

```
ComboIndex: 11

Adapter Name: <E58BD211-3235-4BBE-8C82-C02FE717D340>
Adapter Desc: Realtek PCIe GBE Family Controller
Adapter Addr: 54-04-A6-DC-37-1F
Index: 11
Type: Ethernet
IP Address: 169.254.37.143
IP Mask: 255.255.0.0
Gateway: 0.0.0.0
***
DHCP Enabled: Yes
    DHCP Server: 0.0.0.0
    Lease Obtained: Thu Jan 01 00:00:00
    Lease Expires: Fri Jan 16 00:00:00
Have Wins: No

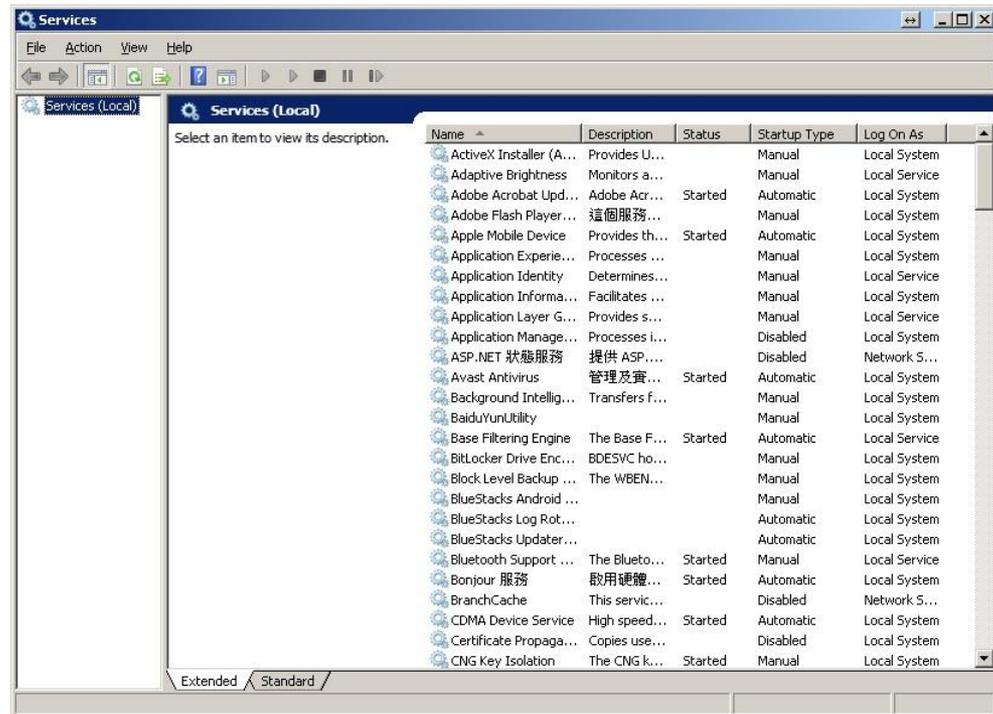
total num adaptors = 3
total valid adaptors = 1
Local IP : 169.254.37.143
"Cannot find SATIP server IP: " 10
```

An error dialog box titled "Error" is overlaid on the command prompt. It contains a red 'X' icon and the text "SAT>IP server IP cannot be found!". A button labeled "確定" (OK) is at the bottom right of the dialog box.



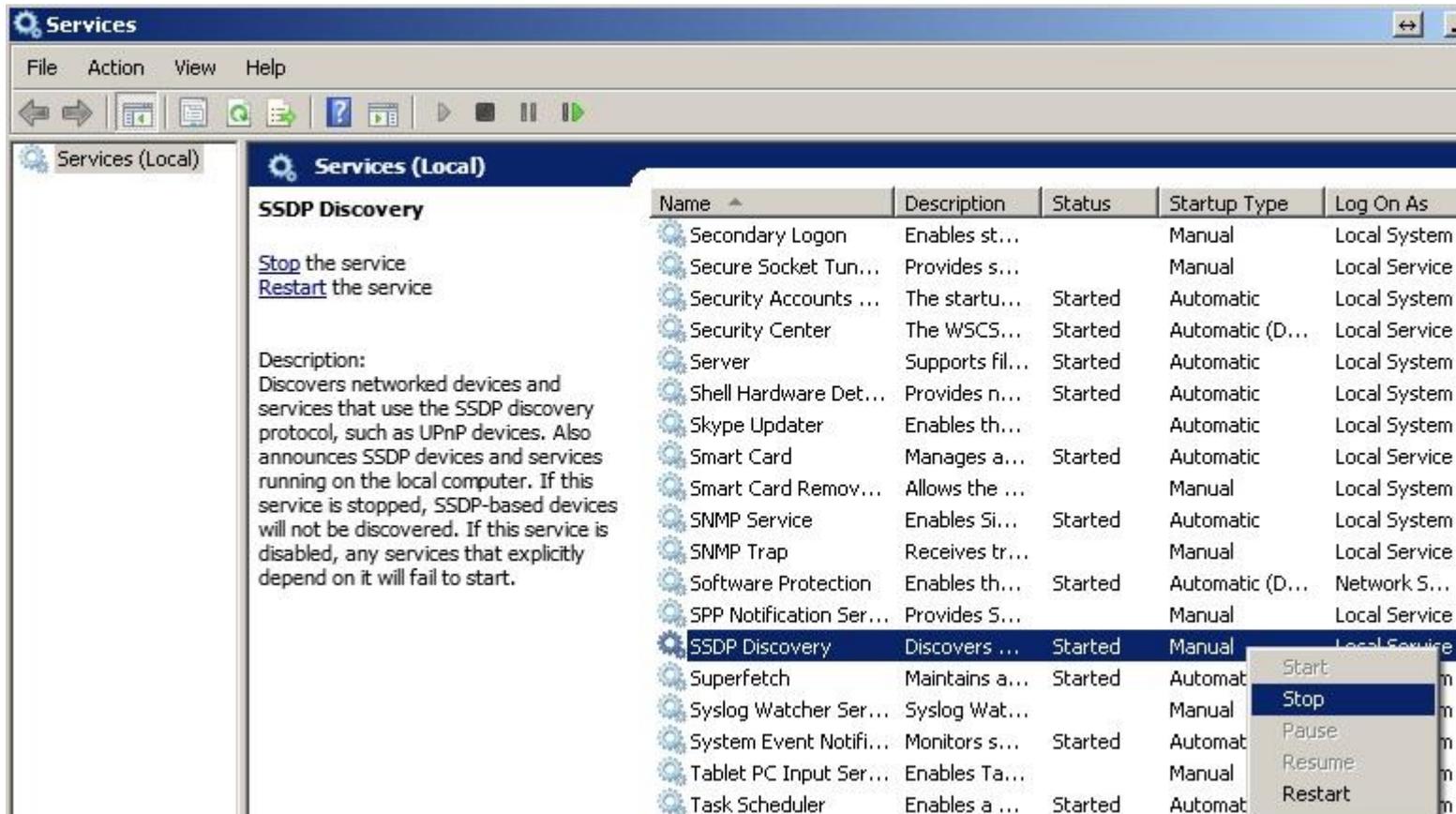
TROUBLESHOOTING

2. Please check whether UPnP and SSDP services are disabled via pressing CTRL+ALT+DEL. If not, please disable them manually



TROUBLESHOOTING

3. Disabled SSDP services



The screenshot shows the Windows Services console. The 'Services (Local)' window is open, displaying a list of services. The 'SSDP Discovery' service is selected, and a context menu is open over it, showing options: Start, Stop, Pause, Resume, and Restart. The 'Stop' option is highlighted.

Name	Description	Status	Startup Type	Log On As
Secondary Logon	Enables st...		Manual	Local System
Secure Socket Tun...	Provides s...		Manual	Local Service
Security Accounts ...	The startu...	Started	Automatic	Local System
Security Center	The WSCS...	Started	Automatic (D...	Local Service
Server	Supports fil...	Started	Automatic	Local System
Shell Hardware Det...	Provides n...	Started	Automatic	Local System
Skype Updater	Enables th...		Automatic	Local System
Smart Card	Manages a...	Started	Automatic	Local Service
Smart Card Remov...	Allows the ...		Manual	Local System
SNMP Service	Enables Si...	Started	Automatic	Local System
SNMP Trap	Receives tr...		Manual	Local Service
Software Protection	Enables th...	Started	Automatic (D...	Network S...
SPP Notification Ser...	Provides S...		Manual	Local Service
SSDP Discovery	Discovers ...	Started	Manual	Local Service
Superfetch	Maintains a...	Started	Automat	m
Syslog Watcher Ser...	Syslog Wat...		Manual	m
System Event Notifi...	Monitors s...	Started	Automat	m
Tablet PC Input Ser...	Enables Ta...		Manual	m
Task Scheduler	Enables a ...	Started	Automat	m

SSDP Discovery

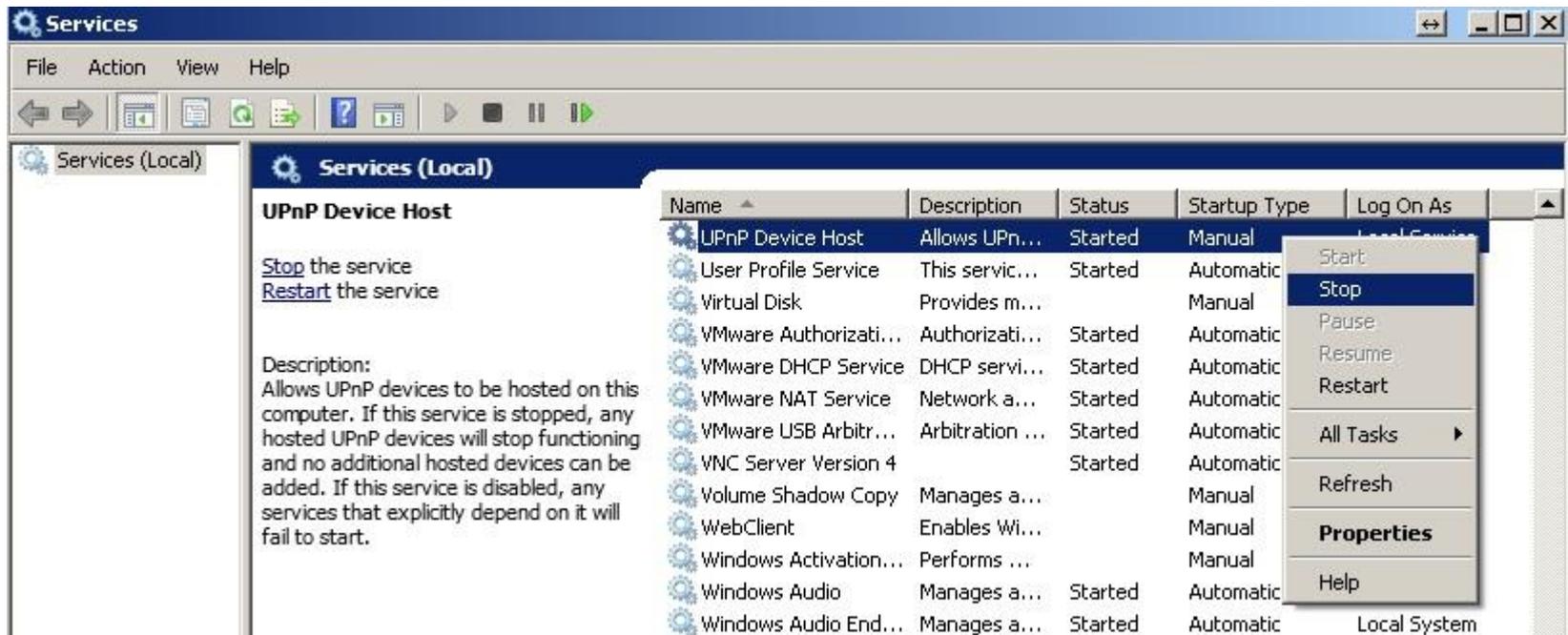
[Stop](#) the service
[Restart](#) the service

Description:
Discovers networked devices and services that use the SSDP discovery protocol, such as UPnP devices. Also announces SSDP devices and services running on the local computer. If this service is stopped, SSDP-based devices will not be discovered. If this service is disabled, any services that explicitly depend on it will fail to start.



TROUBLESHOOTING

4. Disabled UPnP services



The screenshot shows the Windows Services console window. The 'UPnP Device Host' service is selected, and a context menu is open over it. The menu options are: Start, Stop, Pause, Resume, Restart, All Tasks, Refresh, Properties, and Help. The 'Stop' option is highlighted.

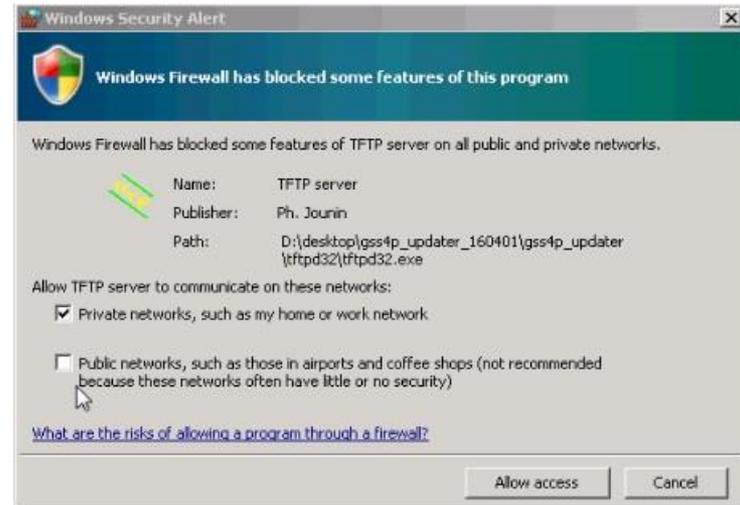
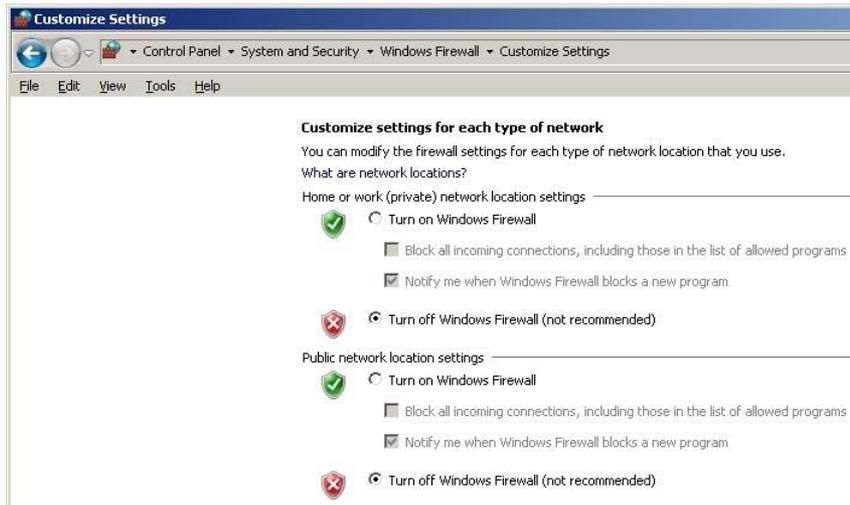
Name	Description	Status	Startup Type	Log On As
UPnP Device Host	Allows UPn...	Started	Manual	Local System
User Profile Service	This servic...	Started	Automatic	
Virtual Disk	Provides m...		Manual	
VMware Authorizati...	Authorizati...	Started	Automatic	
VMware DHCP Service	DHCP servi...	Started	Automatic	
VMware NAT Service	Network a...	Started	Automatic	
VMware USB Arbitr...	Arbitration ...	Started	Automatic	
VNC Server Version 4		Started	Automatic	
Volume Shadow Copy	Manages a...		Manual	
WebClient	Enables Wi...		Manual	
Windows Activation...	Performs ...		Manual	
Windows Audio	Manages a...	Started	Automatic	
Windows Audio End...	Manages a...	Started	Automatic	



TROUBLESHOOTING

o Firmware download failed

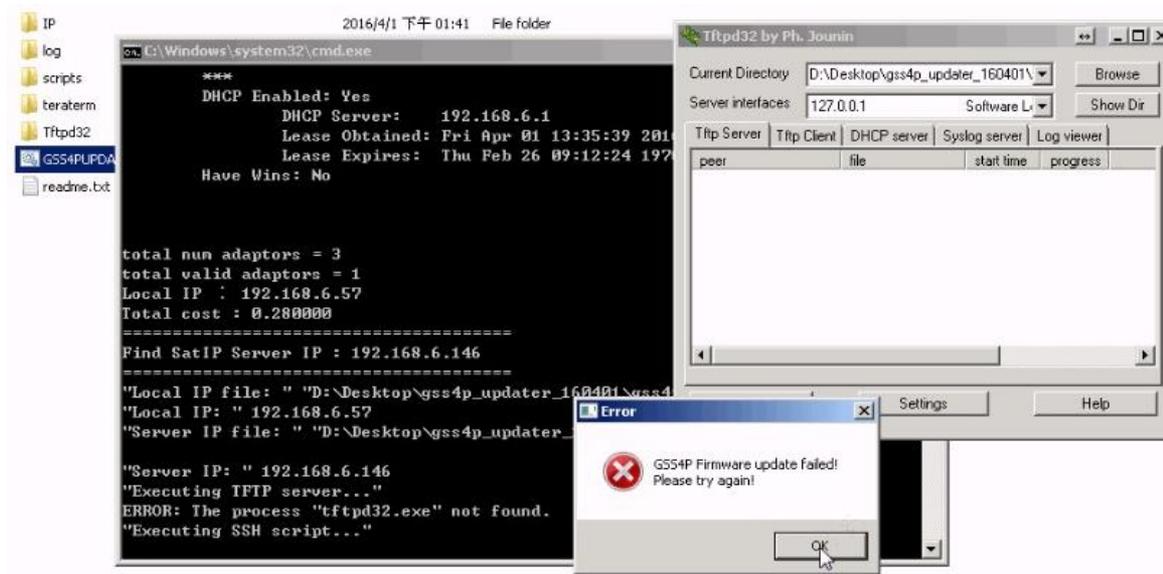
1. Please check whether antivirus, malware software and firewall are disabled. If not, firmware download may fail because timing problem



TROUBLESHOOTING

- Firmware Update failed

1. Please fix all known issue of troubleshooting list and try again



TROUBLESHOOTING

- Run in administrator mode
 1. It is advised that you run the batch file in administrator mode. It is also possible to run cmd.exe in administrator mode first and change directory to where GSS4PUPDATE.bat is located, and run GSS4PUPDATE.bat from cmd prompt.



TROUBLESHOOTING

ALTERNATIVE UPDATE COMMAND



- CAN'T GET SERVER IP using GSS4PUPDATE.bat but SERVER IP is known from home router
 1. In gss4p_updater folder, run terminal using administrator right.
 2. Run "GSS4PUPDATE.bat -pass SELFSAT -ip <local IP> <server IP>"
 3. E.g. **GSS4PUPDATE.bat -pass SELFSAT -ip 192.168.77.188 192.168.77.129**
- Do obtain further help on batch file:

```
>GSS4PUPDATE.bat -h
GSS4PUPDATE.bat -if [combo index] -pass [root pass] -ip
[local ip] [server ip]
  -if [combo index] : interface combo index
  -pass [root pass] : root password for terminal access
  -ip [local ip] [server ip] : local IP and server IP addresses
Press any key to continue...
```



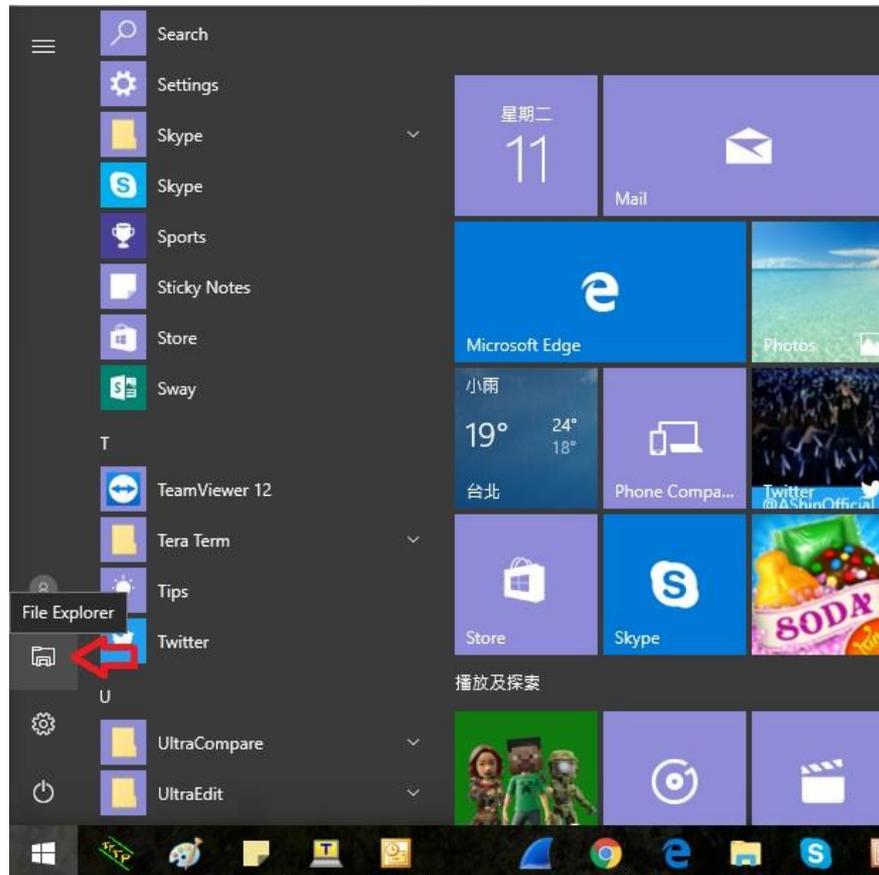
WEBUI FIRMWARE UPDATE METHOD

- WEBUI Firmware Update method
- 2. If the firmware is available of WEBUI version, then try to update through WEBUI.
 - a) Download the newest firmware and save it to the Desktop of your PC (e.g. gss4pui_fwUpg_v3_1_14.supg)



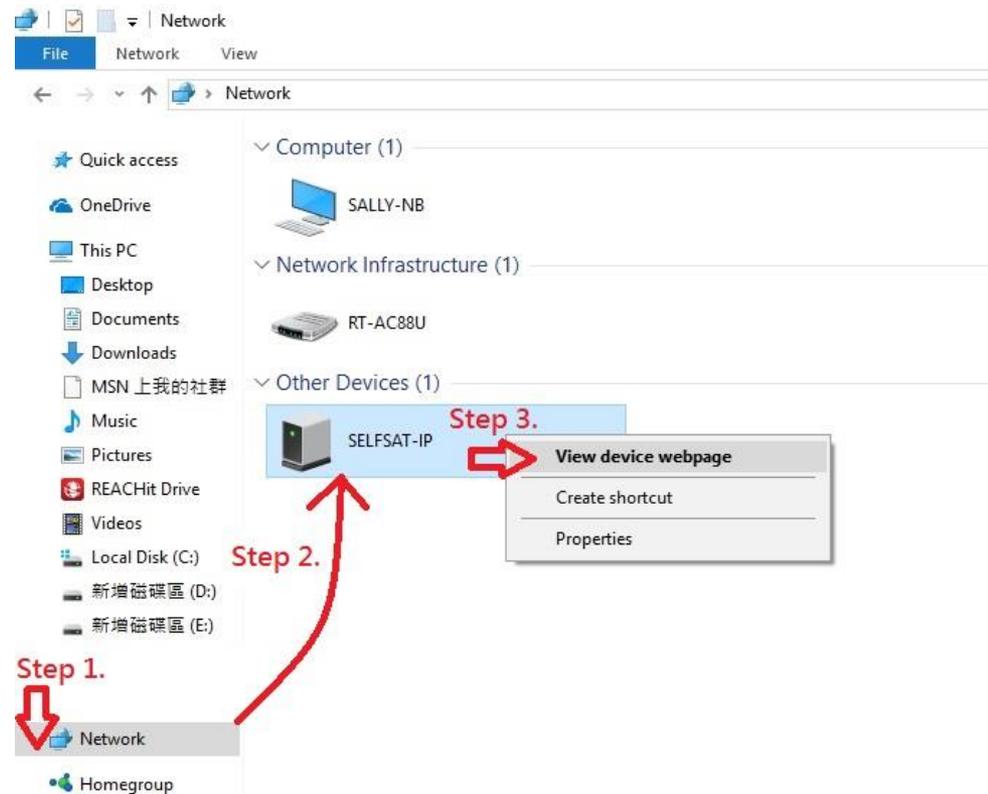
WEBUI FIRMWARE UPDATE METHOD

- b) Double click “File Explorer” in Start menu of Windows PC.



WEBUI FIRMWARE UPDATE METHOD

- c) Click “Network” in left corner of file explorer.
- d) Click right button of mouse in IP-LNB to show drop-down menu.
- e) Click “View device webpage”.



WEBUI FIRMWARE UPDATE METHOD

f) IP-LNB Login Page:

Key in Username: admin; Password: admin



GSS4P SAT > IP Antenna - Login

Username:

Password:

[Login](#)



WEBUI FIRMWARE UPDATE METHOD

- g) Click “Firmware update” in left corner of IP-LNB Page.



SAT > IP™ Antenna SELFSAT>IP - Firmware Update

- Basic info
- Frontend information
- Preferences
- Firmware update**
- Reboot
- About
- Logout

Update from File

Select firmware image file and press **Update** button to begin.



WEBUI FIRMWARE UPDATE METHOD

- h) Click “Browser”
- i) Click “Desktop” in left corner of Open file.
- j) Select firmware image file (e.g. gss4pui_fwUpg_v3_1_9.supg) and click “Open”.
- k) Press “Update” button to begin.

SAT > IP™ Antenna SELF SAT > IP - Firmware Update

Basic info
Frontend information
Preferences
Firmware update
Reboot
About
Logout

Update from File

Select firmware image file and press **Update** button to begin.

Step 1. ↓ Step 5. ↓

C:\Users\Sally\Desktop\g Browse... Update

Open

This PC > Desktop > Search Desktop

Organize New folder

Quick access
OneDrive
This PC
Desktop
Documents
Downloads
MSN 上我的社
Music

4000-1.jpg
flash default.doc
gss4pui_fwUpg_v3_1_9.supg

010101
011010
011100

010101
011010
011100

File name: gss4pui_fwUpg_v3_1_9.supg All files (*)

Step 2. Desktop Step 3. gss4pui_fwUpg_v3_1_9.supg Step 4. Open

WEBUI FIRMWARE UPDATE METHOD

- l) Press “Begin” button to confirm the update.
- m) Press “Reboot” button for new firmware to take effect.

Update from File

Updating firmware from file system

	FROM		TO
H/W Version:	1.0	updating	1.0
S/W Version:	3.0.29	→	3.1.9

Press **Begin** button to update to this version.
Press **Cancel** button to cancel the firmware update process.



Update from File

Updating firmware completed

	FROM		TO
H/W Version:	1.0	updated	1.0
S/W Version:	3.0.29	→	3.1.9

Press **Reboot** for new firmware to take effect



WEBUI FIRMWARE UPDATE METHOD

- n) IP-LNB Login Page:
Key in Username: admin; Password: admin
- o) Click “About” in left corner of IP-LNB Page.
- p) Check the S/W Version.

GSS4P SAT > IP™ Antenna - Login

Username:

Password:

Login

SAT > IP™ Antenna SELFSAT>IP - About

Basic info

Frontend information

Preferences

Firmware update

Reboot

About

Logout

Server Information

Device friendly name: SELFSAT-IP

Number of DVB S/S2 frontends: 8

MAC address: B8:87:1E:00:A0:14

H/W Version: 1.0

S/W Version: 3.1.9