



اليه سات yahsat

Yahsat Installation Procedure

S/N: 2345057
Fallback.bin: [6.10.0.24_PID]


Advanced Configuration and Statistics

Home
Restart-HN9260

Advanced Menu

- + General
- + Outroute
- + Transmitter
- + Diagnostics
- + LAN/WAN
- + IP Routing
- + IP Stack/Services
- + Firewall
- + PEP
- + Turbopage
- + Layer 4 Switch
- + CAX
- + Logs
- + OS Stats
- Installation
 - Setup
 - ACP Stats
 - Ranging Stats
 - Force Ranging
 - SDL Monitor
 - SDL Profile
 - SDL Missed Frames
 - Licensing
 - Config Params

Broadband Satellite Setup - Mozilla Firefox
192.168.0.1/fs/registration/setup.html



Broadband Satellite Setup

Welcome to Broadband Satellite Setup. Use the links below to register your HN9260 terminal or point the outdoor antenna. Please note that certain functions shall be disabled during this process. Make sure that your HN9260 terminal is restarted once you complete the Setup process.

| | |
|---|--|
| Registration - Installer | Use this option if you are an installer and are commissioning a new terminal. |
| Registration - User | Use this option if you have a Registration Id and your antenna is already pointed. |
| Registration - Adapter Swap | Use this option if you are replacing your existing terminal with a new terminal and your antenna is already pointed. |
| Re-registration | Use this option if your terminal is already commissioned and you would like to update your account. |
| <hr/> | |
| Antenna Pointing | Use this option if you would like to run pointing or ACP on your current setup. |
| VSAT Manual Commissioning | Use this option if you are an installer and would like to manually commission your terminal as a VSAT. |
| <hr/> | |
| License Management | Use this option to upload and manage feature licenses. |
| Config File Upload | Use this option to upload a new registration configuration file. |
| Zip Code File Upload | Use this option to upload a new Zip Code file. |

Close


Browse to this Address

Select this option

then select this option

Broadband Satellite Configuration File Upload - Mozilla Firefox

192.168.0.1/sbc/showcfgupload/



Broadband Satellite - Configuration File Upload

Please provide the latest configuration file which will be used during the commissioning process


Browse... Upload Close

Click Browse and find the SBC.CFG file

Click Upload

- Advanced Menu
 - General
 - Outroute
 - Transmitter
 - Diagnostics
 - LAN/WAN
 - IP Routing
 - IP Stack/Services
 - Firewall
 - PEP
 - Turbopage
 - Layer 4 Switch
 - CAX
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| License Management | Use this option to upload and manage feature licenses. |
| Config File Upload | Use this option to upload a new registration configuration file. |
| Zip Code File Upload | Use this option to upload a new Zip Code file. |

Close

Select option



Broadband Satellite - Satellite Parameters

Please select the Satellite/Transponder combination from the list provided, or check the "Enter satellite parameters manually" box to enter the satellite parameters manually. Click **Next** to continue.

My antenna is pointing to:

Beam50

Enter satellite parameters manually

Back

Next

Exit

You will find the Beam Number on the Installation Reference Sheet, sent to you via Email from Wafa T.

3283173



| Service Order Number | SAN | PIN | Source |
|----------------------|-------------|------|--------|
| 3283173 | BEN10000061 | 4437 | |

Customer Information

Customer Name: XXXXXXXXXX
Customer Address: **Not Specified**
City: **Abuja**
Landmark:
Order Lat / Long: **9.066667 / 7.483333**
Account Type: (**X**) **Residential** () Enterprise
Modem Type: () 92xx (**X**) **94xx**
Comments:

Contact Phone: **000-0000000**

Country: **NGA**

Beam ID: **Y1B050**

Radio Type: () 1 Watt (**X**) **2 Watt**

EXAMPLE



Broadband Satellite - Verification of Satellite Parameters

Verify the Satellite Parameters listed below then click **Next** to continue. If the information is incorrect, click **Back** to change the Satellite/Transponder selection.


| | |
|-----------------------------|----------------------------------|
| Satellite: | Y1B |
| Longitude: | 47.5 E |
| Frequency: | 1341.6 MHz |
| OTA Frequency: | 0 MHz |
| Symbol Rate: | 32.000 Msps |
| Receive Polarization: | VR |
| Transmit Polarization: | H/L |
| 22KHz Tone: | Off |
| DVB Mode: | DVB-S2-ACM |
| DVB Program Num(User Data): | 20500 |
| DVB Program Num(DNCC Data): | 40000 |
| Encap Mode: | MPEG |
| Antenna Pointing Tool: | <input type="text" value="OPI"/> |

Select OPI option then click NEXT

[Back](#) [Next](#) [Exit](#)

Broadband Satellite Pointing - Receive LNB Selection - Mozilla Firefox

192.168.0.1/sbc_cgi/pointing/rxlnbsel.bin



Broadband Satellite - Receive LNB Selection

Please select the receive LNB from the options listed below. Click **Next** to continue.


Receive LNB:

[Back](#) [Next](#) [Exit](#)

Select Ka_LNB then click NEXT

Broadband Satellite Pointing - Detailed LNB Info - Mozilla Firefox

192.168.0.1/sbc_cgi/pointing/rxlnbinfoshow.bin?




Broadband Satellite - Verification of Receive LNB Parameters

Please verify the Receive LNB parameters listed below then click **Next** to continue. If the information is incorrect, click **Back** to change the Receive LNB selection.

Note: Because a KA band LNB was selected, DAPT antenna pointing test may be required, but DAPT was not selected from the satellite parameters screen. Please click **Back** to select the **DAPT** from the **Antenna Pointing Tool** dropdown list. If you choose to continue without running the DAPT test, the satellite modem's transmitter may be disabled for failing to run the DAPT test.

| | |
|-------------------|-----------|
| Receive LNB Name: | Ka_LNB |
| LO Frequency: | 18750 MHz |
| Lower Band Edge: | 19700 MHz |
| Upper Band Edge: | 20200 MHz |
| LNB Sweep Range: | 0 KHz |
| LNB 22KHz Switch | Off |

[Back](#) [Next](#) [Exit](#)

Click NEXT 



Broadband Satellite - Transmit Radio Parameters

Please select the transmit radio wattage from the options listed below. Click **Next** to continue.

1 Watt 2 Watt

Select transmit radio part number


[Back](#) [Next](#) [Exit](#)



Select 1 Watt option

Broadband Satellite Pointing - Mozilla Firefox

192.168.0.1/fs/registration/receivept.html



Broadband Satellite - Receive Antenna Pointing

Use the values below to adjust the antenna's elevation, azimuth, and polarization. Adjust the antenna until you receive the highest signal strength possible.

Antenna Pointing Values:

| | |
|-------------------|-------|
| Elevation: | 36.0 |
| Magnetic Azimuth: | 98.0 |
| Polarization: | -90.0 |


[Display Signal Strength](#)

Close signal strength display and click on **Next** when Receive Antenna Pointing is complete.

[Back](#) [Next](#) [Exit](#)

Click Display Signal Strength

Broadband Satellite Pointing - Mozilla Firefox
192.168.0.1/fs/registration/receivept.html#



Broadband Satellite -

Use the values below to adjust the antenna until you receive the highest signal strength possible.

Antenna Pointing Values:

| | |
|-------------------|-------|
| Elevation: | 36.0 |
| Magnetic Azimuth: | 98.0 |
| Polarization: | -90.0 |


Close signal strength display and click on **Next** when Receive Antenna Pointing is complete.

Back **Next** **Exit**

Peak Signal to 90+

Then click CLOSE and click NEXT

Signal Quality - Mozilla Firefox
192.168.0.1/fs/registration/sqfpop.html

Signal Strength:
 15


Status: The receiver is not locked

Close

Transferring data from 192.168.0.1...

Display Signal Strength

HughesNet Registration - Windows Internet Explorer
http://192.168.0.1/fs/registration/sbcstart.html



HughesNet

HughesNet - Registration Server Selection

The DW7000 terminal will now connect to the Registration Server to continue the setup process. Please select the Registration Server from the list below or manually enter the Registration Server URL, then click **Next** to continue.

Choose Server: SAN_and_PIN_Registration ▾


Enter Registration Server address manually Secure HTTP Mode

HTTP://

Back **Next** **Exit**

select SAN_and_Registration then click NEXT

HughesNet Registration - Windows Internet Explorer
http://192.168.0.1/fs/registration/sbcstart.html




HughesNet - Registration In Progress

Satellite connection established

Downloading Encryption Keys ...

HughesNet Registration - Windows Internet Explorer
http://192.168.0.1/fs/registration/sbcstart.html



HughesNet - Registration In Progress

Satellite connection established

Encryption Keys downloaded

Authentication successful

If all ok Authentication will be successful

Click **Next** to continue.

[Back](#) [Next](#) [Exit](#)

Registration

* Indicates required fields.



Your information is protected using industry standard SSL technology.

Site Account Information

Site Account Number (SAN):

PIN:

Continue

Enter S

Reference Sheet

SAN and PIN are found on the Installation Reference sheet, **sent via email from Wafa**



| Service Order Number | SAN | PIN | Source |
|----------------------|-------------|------|--------|
| 3283173 | BEN10000061 | 4437 | |

Customer Information

Customer Name: XXXXXXXXXX

Customer Address: **Not Specified,**

City: **Abuja**

Landmark:

Order Lat / Long: **9.066667 / 7.483333**

Account Type: (**X**) Residential () Enterprise

Modem Type: () 92xx (**X**) 94xx

Comments:

Contact Phone: **000-0000000**

Country: **NGA**

Beam ID: **Y1B050**

Radio Type: () 1 Watt (**X**) 2 Watt

EXAMPLE

Registration

Your account is registered for service.

Please write down the following information about your satellite terminal.

Site Id: 36D7D401
Terminal IP Address: 72.169.114.105
Terminal Subnet Mask: 255.255.255.252

Use the above information to configure IP devices connected to the satellite terminal.

The default Gateway on each IP device should be set to the Terminal IP Address.

Print this page

Continue

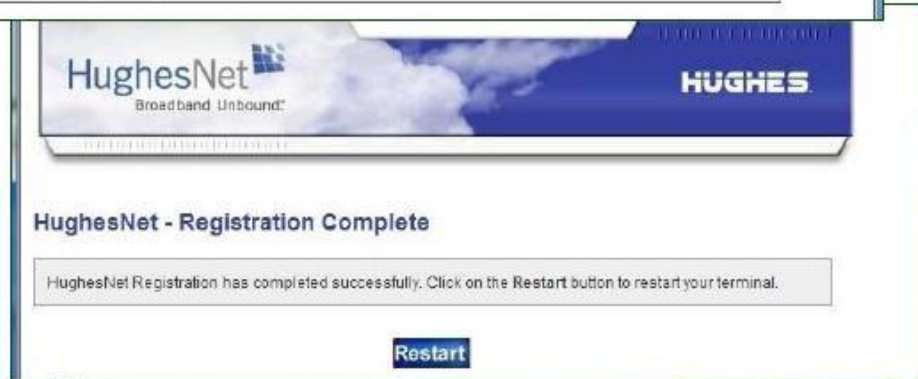
If SAN and PIN are accepted you will see this page
Press Continue



The modem will now download the configuration



Once this is done click Restart and the modem will reboot



[Home](#)

[Problem Troubleshooting](#)

[Detailed Problem Statistics](#)

[Connectivity Test](#)

[Help](#)

SYSTEM STATUS

| | |
|---|---|
| Signal Strength | 75 |
| <i>Note: Signal Strength is not an indicator of browsing speed. Precipitation can affect Signal Strength. If you do not see a red flag next to any of the status messages on this page, you should be able to browse the Internet successfully.</i> | |
| <u>Receive Status</u> | <u>Receiver operational. (RxCode 5)</u> |
| <u>Transmit Status</u> | <u>Transmitter ready. (TxCode 8)</u> |
| <u>Software Download Status</u> | <u>Waiting for first heartbeat message.</u> |
| Service Status | Commissioned [Keys updated] |
| <u>TCP Acceleration Status</u> | <u>Operational</u> |
| <u>Web Acceleration Status</u> | <u>Inactive</u> |
| Diagnostics Code | Not Available |




The modem will now download software and then reboot again.

System Status

 OK

Reception Info


Transmission Info


System Info


[What do these controls mean?](#) 

[Home](#)

[Problem Troubleshooting](#)

[Detailed Problem Statistics](#)

[Connectivity Test](#)

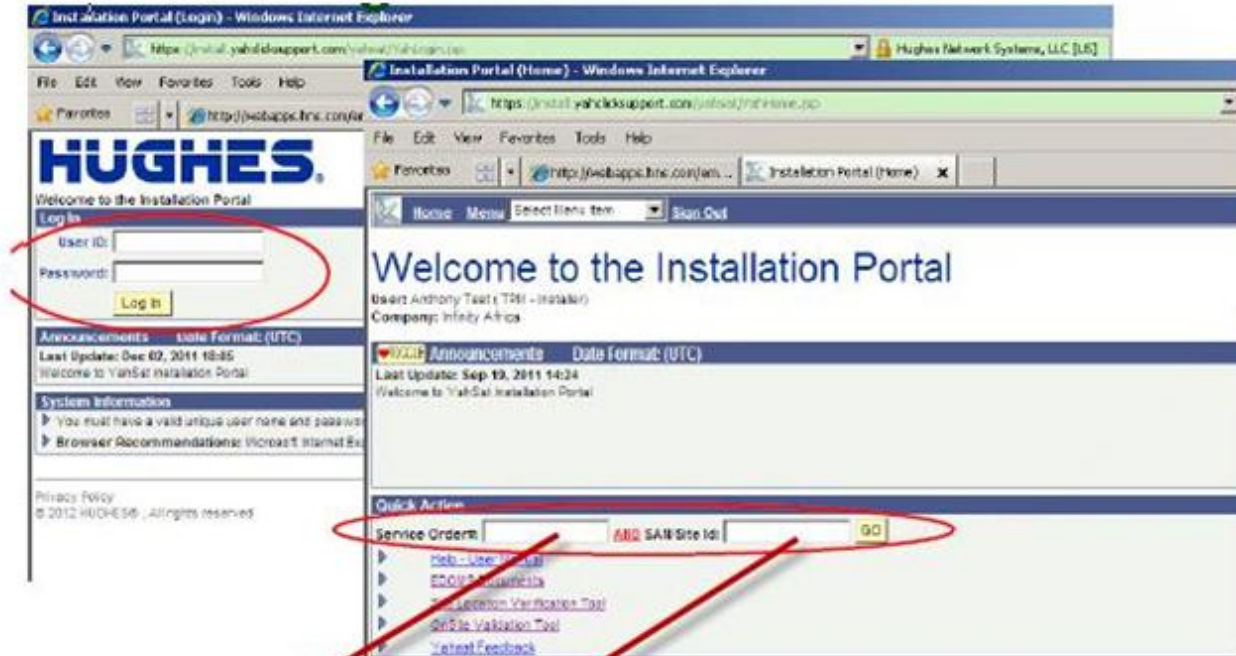
[Help](#)

SYSTEM STATUS

| | |
|---|---|
| Signal Strength | 75 |
| <i>Note: Signal Strength is not an indicator of browsing speed. Precipitation can affect Signal Strength. If you do not see a red flag next to any of the status messages on this page, you should be able to browse the Internet successfully.</i> | |
| <u>Receive Status</u> | <u>Receiver operational. (RxCode 5)</u> |
| <u>Transmit Status</u> | <u>Transmitter ready. (TxCode 8)</u> |
| <u>Software Download Status</u> | <u>All files are up-to-date.</u> |
| Service Status | Commissioned [Keys updated] |
| <u>TCP Acceleration Status</u> | <u>Operational</u> |
| <u>Web Acceleration Status</u> | <u>Inactive</u> |
| Diagnostics Code | Not Available |

Modem is now ready for final validation

Installation Portal - <https://install.yahclicksupport.com/yahsat/YahLogin.jsp>



Log into the installation portal and enter the service order number and SAN from the installation reference sheet, sent via email from WAFA



| Service Order Number | SAN | PIN | Source |
|----------------------|-------------|------|--------|
| 3283173 | BEN10000061 | 4437 | |

Customer Information

Customer Name: **Ade Ojuri**
Customer Address: **Not Specified,**
City: **Abuja**
Landmark:
Order Lat / Long: **9.066667 / 7.483333**
Account Type: (**X**) Residential () Enterprise
Modem Type: () 92xx (**X**) 94xx
Comments:

Contact Phone: **000-0000000**

Country: **NGA**

Beam ID: **Y1B050**

Radio Type: () 1 Watt (**X**) 2 Watt

Home Menu Select Menu Item Sign Out

Service Order: 3279362

Information/Activities Parameters Products Transactions SLVT Select All

SAN: SPD10000012 Type: Install

Information/Activities

TDS/Yahsat - Install Confirmation (1 of 3)

Step 1: Verify FSO and Site Information

Refresh Site Info

| | | |
|---------------------|-----------------------|--------------------|
| FSO: 123456 | SAN: SPD10000002 | Vision Id: ABU |
| Visit Type: Install | Serial#: 2153066 | Mgmt IP: 10.1.0.31 |
| Installer Id: 1 | Adapter Type: HN9200 | Latitude: |
| Installer Name: 1 1 | Transponder: Y1b001-1 | Longitude: |
| | Beam Id: Y1b028 | |

Step 2: Choose The Antenna Size That You Will Install

.74 m

.98 m

1.2 m

Step 3: Enter The Approximate Cable Length You Will Use

(1-500) m

Proceed

Select the OVT tool

Select Antenna Size

Enter Cable Length

Click Proceed

FSO: TAH10012647 / 999999

SAN: TAH10012647

Zip: 20876

Visit Type: Install

Serial#: 2084774

UL Attenuation: 9

Installer Id: 999999

Adapter Type: HN9200

DL Attenuation: 12

Installer Name: Jack Rozmaryn

Antenna Size: 0.74

Cell Site Count: 3077

Profile Grp: BASIC_HN92_NAT

ODU Power: 1

Cell UL Es/No: 221

Service Symbol Rate: 256

SW Version: 6.10.0.19

Cell DL Es/No: 162

Transponder: AMC15-A-4Aa

Latitude: N. 39° 10.00

Cell UL Es/No Offset: -15.36

Mgmt IP: 10.120.5.108

Longitude: W. 77° 14.00

Cell DL Es/No Offset: -9.6

Get Current Stats

Force Range

Clear Terminal Stats

Signoff

| | Timestamp | Operating UL Es/No | UL Margin | Symbol Rate - FEC | UL Es/No Avail | DL Es/No | CRC Error % | UL Deviation | DL Deviation | Code Rate Too Low | Tx/Rx Code | Hi CRC Error Good EsNo |
|----------------|----------------|--------------------|-----------|-------------------|----------------|----------|-------------|--------------|--------------|-------------------|------------|------------------------|
| Target Values | | 85 | 85 | 256 4/5 | 182 | 130 | 1% | -1.2 | -1.2 | 0 | | |
| Current Values | 03/14/12 09:09 | 97 | 127 | 256 4/5 | 224 | 143 | 0% | 2.2 | 0.3 | 0 | | |
| Difference | | 12 | 42 | 0 | 42 | 13 | -1 | 3.4 | 1.5 | 0 | | |

Diagnosis: OK

Recommended Action: Click Signoff

Completed Action

(Perform recommended action above, then click "Completed Action")

Click Get Current Stats

| | | Get Current Stats | Force Range | Clear Terminal Stats | Signoff | | | | | | | |
|--|----------------|--------------------|-------------|----------------------|----------------|----------|-------------|--------------|--------------|-------------------|------------|-------------------------|
| | Timestamp | Operating UL Es/No | UL Margin | Symbol Rate - FEC | UL Es/No Avail | DL Es/No | CRC Error % | UL Deviation | DL Deviation | Code Rate Too Low | Tx/Rx Code | Hi CRC Error Good Es/No |
| Target Values | | 85 | 85 | 256 4/5 | 182 | 130 | 1% | -1.2 | -1.2 | 0 | | |
| Current Values | 03/14/12 09:09 | 97 | 127 | 256 4/5 | 224 | 143 | 0% | 3.3 | 0.3 | 0 | | |
| Difference | | 12 | 42 | 0 | 42 | 13 | -1 | 3.4 | 1.5 | 0 | | |
| Diagnosis: | | OK | | | | | | | | | | |
| Recommended Action: | | Click Signoff | | | | | | | | | | |
| Completed Action: | | | | | | | | | | | | |
| (Perform recommended action above then click "Completed Action") | | | | | | | | | | | | |

All these values need to be green, if any are purple then there is still a pointing issue.

| | Timestamp | Operating UL Es/No | UL Margin | Symbol Rate - FEC | UL Es/No Avail | DL Es/No | CRC Error % | UL Deviation | DL Deviation | Code Rate Too Low | Tx/Rx Code | Hi CRC Error Good Es/No |
|----------------|----------------|--------------------|-----------|-------------------|----------------|----------|-------------|--------------|--------------|-------------------|------------|-------------------------|
| Target Values | | 85 | 85 | 256 4/5 | 182 | 130 | 1% | -1.2 | -1.2 | 0 | | |
| Current Values | 03/14/12 09:09 | 97 | 127 | 256 4/5 | 224 | 143 | 0% | 2.2 | 0.3 | 0 | | |
| Difference | | 12 | 42 | 0 | 42 | 13 | -1 | 3.4 | 1.5 | 0 | | |

Diagnosis: **OK**

Recommended Action: **Click Signoff**

Completed Action: **Completed Action**

(Perform recommended action above, then click "Completed Action")

When all values are green the Recommended Action will be : Click Signoff

FSO: DS89724003 / 999999

SAN: DS89724003

Visit Type: Install

Please indicate the site installation problems and actions performed:

Installation

- Line Of Sight
- Replaced Dish
- Repaired/Replaced Cable Connector/Ground Block/Weather

No Installation Problems

- No Installation Problems

Hardware

- Replace/Repair Feedhorn/Polarizer

- Damaged Feedhorn or Corner

Notes:

- Replace Radio

- Radio Stopped

- No Signal

- Broken Connector

Failed Radio Serial#:

Notes:

- Replace Modem

- Modem LAN Problem

- Did Not Power On

Failed Modem Serial#:

Notes:

- Replaced Power Supply

Software

- Modem Software Installation/Processing Problem

- NOCC/Tier 3 Corrected Network Problem

Customer Related

- Customer Refused Install

- Customer Equipment/Software/Router Problem

Other

- Other

Provide Installation Details Below:

Signoff

Get Provisional Signoff

After the installation Diagnosis is "OK", answer all applicable questions in the Installation, Hardware, and Software sections then click Signoff



FSO: TAH10012647 / 999999

SAN: TAH10012647

Visit Type: Install

Signoff Id: LBYC4865LB

Signoff: LBYC4865LB
Data has been saved

Please indicate the site installation problems and actions performed:

Installation

- Line Of Sight
- Replaced Dish
- Repaired/Replaced Cable Connector/Ground Block/Weather

No Installation Problems

- No Installation Problems

Hardware

- Replace/Repair Feedhorn/Polarizer
- Replaced Radio
- Replaced Modem
- Replaced Power Supply

Software

- Modem Software Installation/Processing Problem
- NOCC/Tier 3 Corrected Network Problem

Customer Related

- Customer Refused Install
- Customer Equipment/Software/Router Problem

Other

- Other

Provide Installation Details Below:

Installation successful.

Signoff

Display Provisional Signoff

modem is now fully configured and signoff is complete