iDirect Evolution

Installation Guide

Wafa Technical Systems Services,
http://www.wafa.ae

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1. Before you start

a) Please ensure that you have submitted the online activation form at

b) Once this is done, you will receive the required files to configure you modem; this will include the **option file** (R12345.opt) and your IP details.

c) You will also need the corresponding version of iSite:

Evolution W2A (C- Band) : iSite 12.0.0.0

Evolution W3A/W6 S2 : iSite 12.0.0.0

Evolution AM22: iSite 12.0.0.0

Infiniti Sesat2/W3A/W6 S1 : iSite 12.0.0.0

It is **very important** that the correct version is used depending on what satellite the modem in on; if you are unsure which version to use, please contact support

The above software can be downloaded from

http://www.wafa.ae/en/vsat/support/evolution

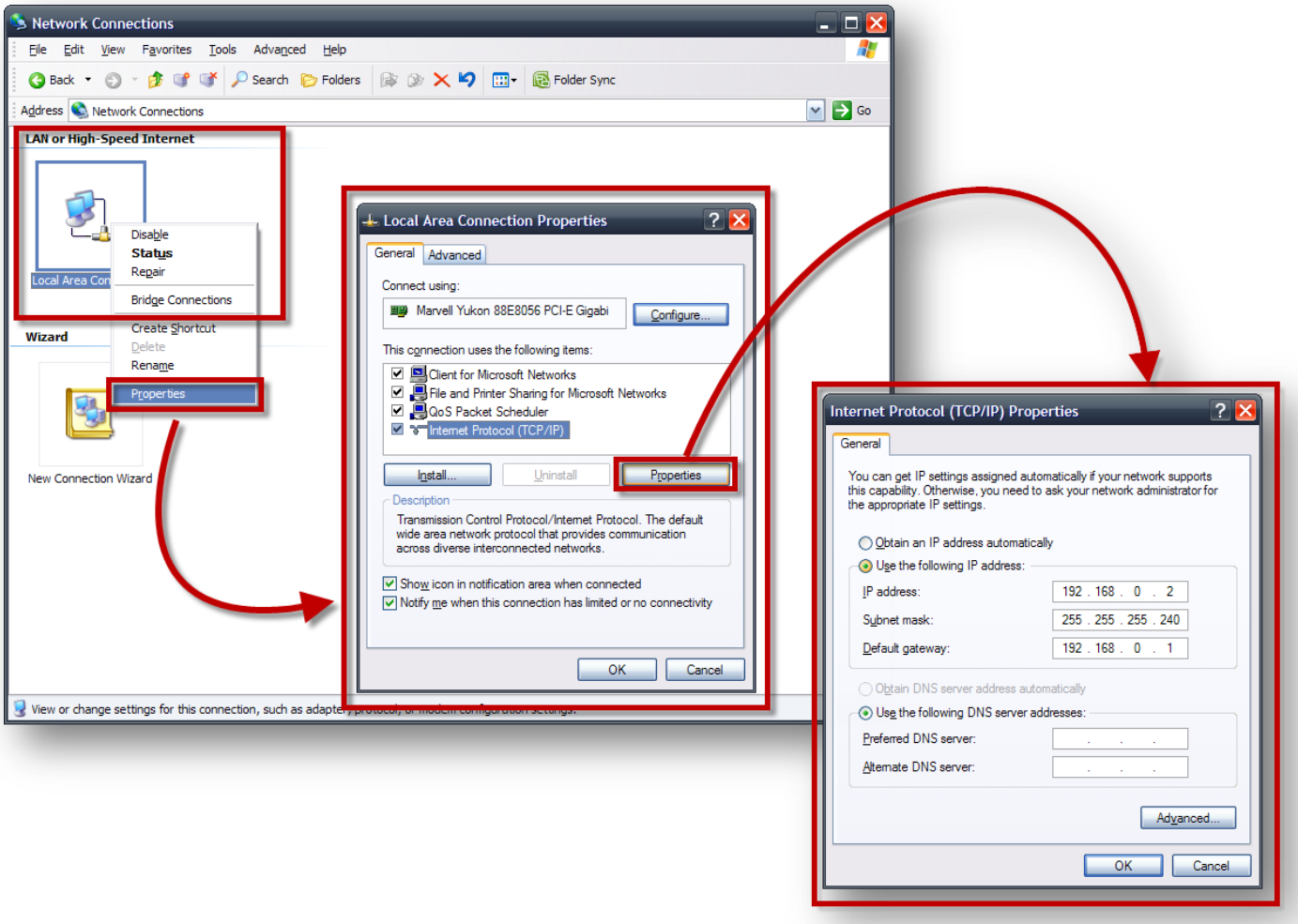
2. Connecting to the modem

a) Connect an RJ45 cable from the LAN port on the modem to a hub or switch (the interface runs at 100mbps/full duplex) the to a PC

If connecting straight from the modem to a PC, use a crossover cable.

b) Set up the PC with the following default IP addresses
IP Address: 192.168.0.2
Subnet Mask: 255.255.255.240
Default gateway: 192.168.0.1

To do this in Windows XP go to Start > Control Panel > Network Connections:

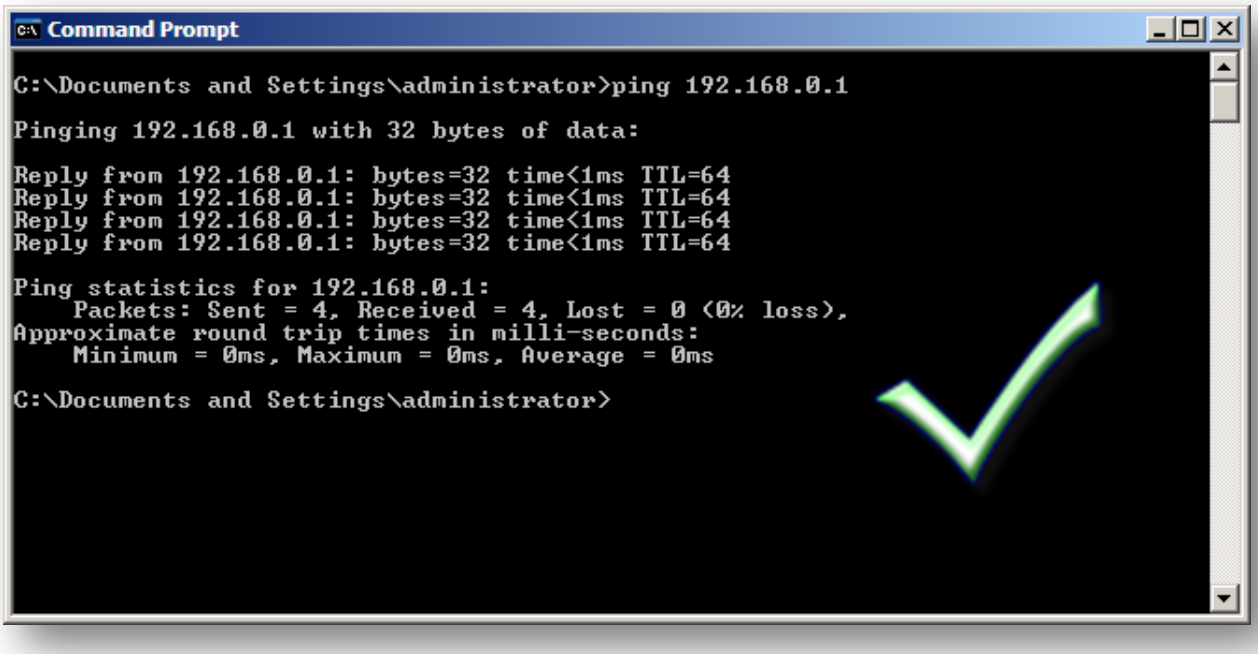


If you are having issues doing this with windows 7, follow the step by step guide below:

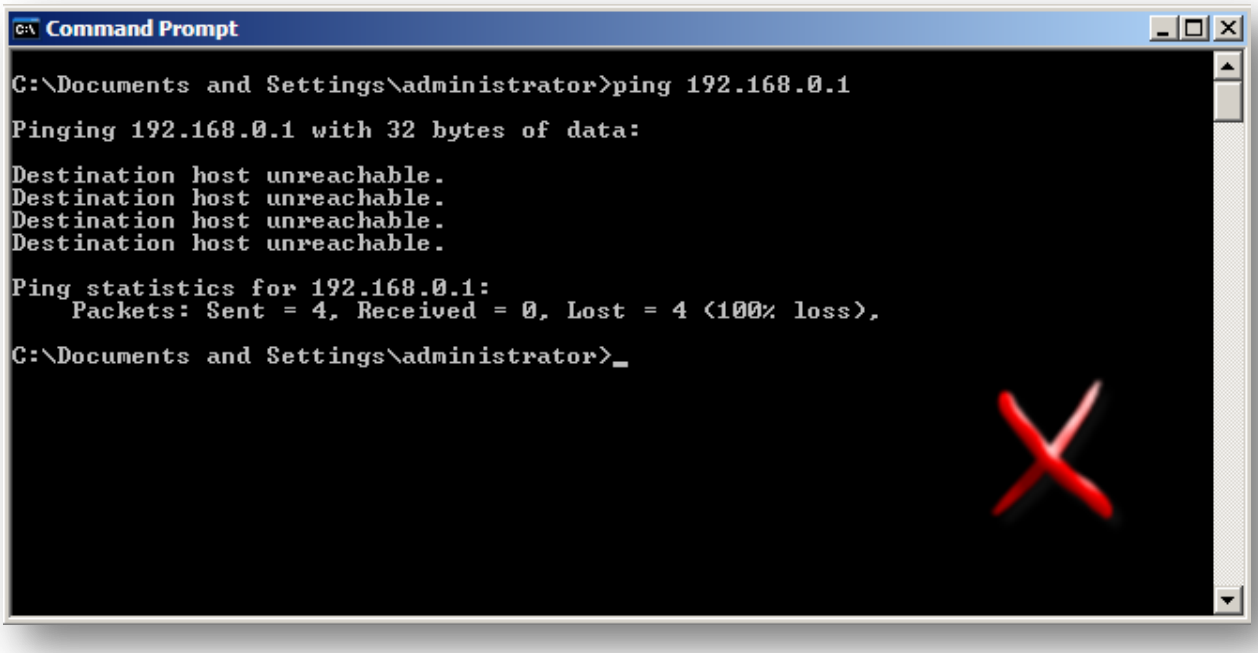
http://windows.microsoft.com/en-US/windows7/Change-TCP-IP-settings

c) To confirm that the PC can now communicate with the modem, open a command prompt (Start > run/search > type "**cmd**" and hit enter)
Type "**ping 192.168.0.1**"

If everything is set up correctly, results should be as below:

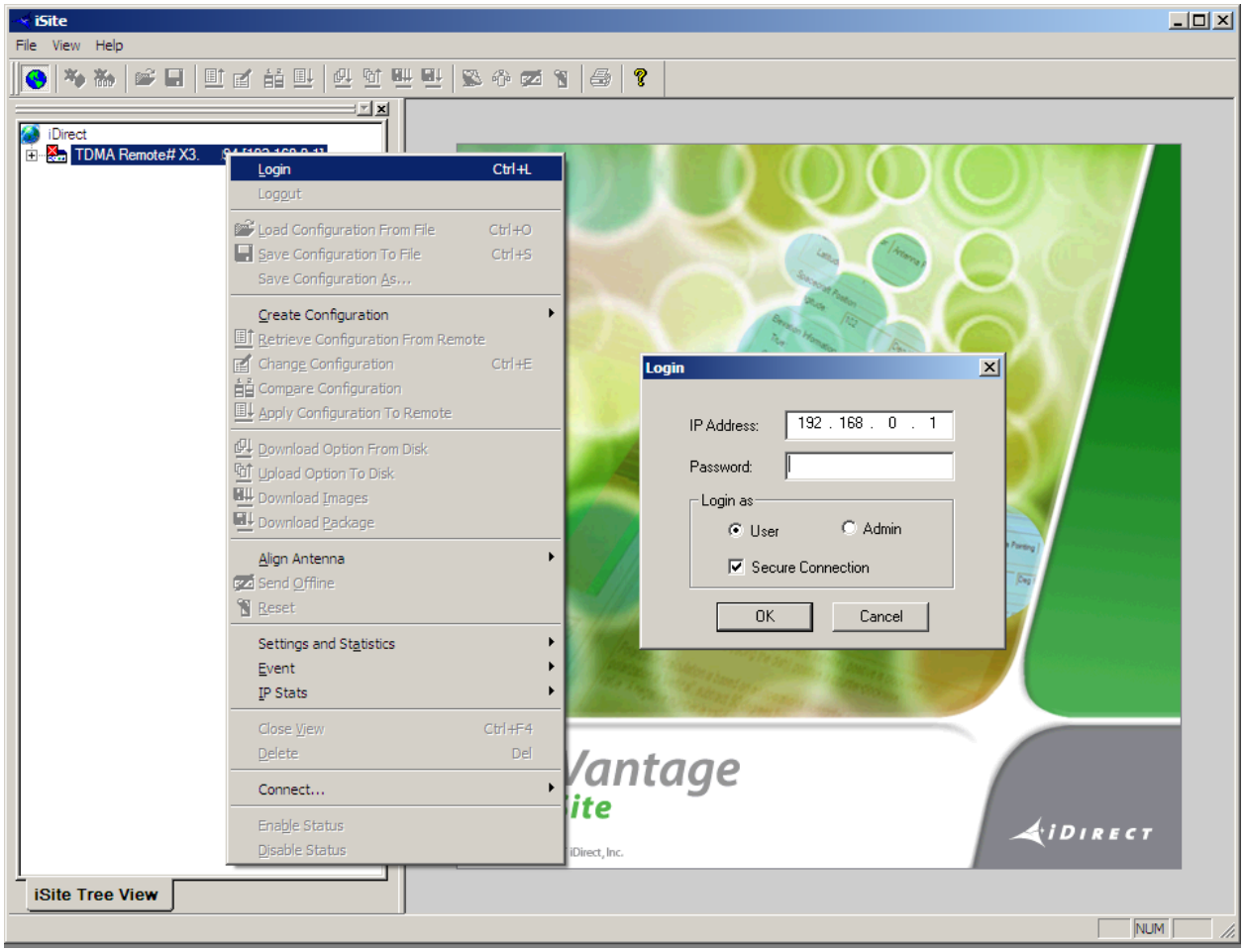


If results are "Request timed out" or "Destination host unreachable" or "Hardware Error", cables and settings need to be rechecked

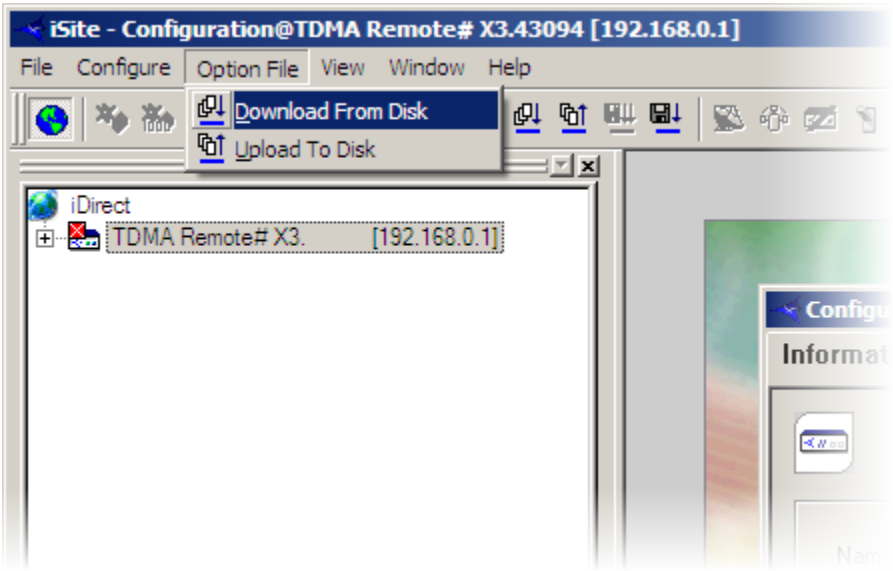


3. Loading the option file

a) Log in to iSite by clicking on the “TDMA Remote” and clicking “Login”. The default password is: **iDirect**


iSite
File View Help
iDirect
TDMA Remote# X3.
Login Ctrl+L
Logout
Load Configuration From File Ctrl+O
Save Configuration To File Ctrl+S
Save Configuration As...
Create Configuration
Retrieve Configuration From Remote
Change Configuration Ctrl+E
Compare Configuration
Apply Configuration To Remote
Download Option From Disk
Upload Option To Disk
Download Images
Download Package
Align Antenna
Send Offline
Reset
Settings and Statistics
Event
IP Stats
Close View Ctrl+F4
Delete Del
Connect...
Enable Status
Disable Status
iSite Tree View
Login
IP Address: 192 . 168 . 0 . 1
Password:
Login as
User
Admin
Secure Connection
OK
Cancel
iDirect, Inc.
iDIRECT
NUM

b) Once logged in, click on “Option file” in the top menu, then “Download from disk”



c) Browse to where the option file is saved and open. It should only take a few seconds to load and then to modem will reboot

d) You will now need to change your computers IP settings to reflect the update. Follow Step 2 again using the IP addresses that were supplied with the option file

e) Also, the password for iSite and telnet access will now have **changed** from the default “iDirect”; depending on what satellite the modem is configured for, it will be:

- W2A-C Band / W3A/W6/T-11 S2: **bentleys2**
- AM22: **eutelsat2008**
- SeSat2/W6 S1: **eutelsat**
- W3A S1: **london12**

4. Acquiring the satellite signal

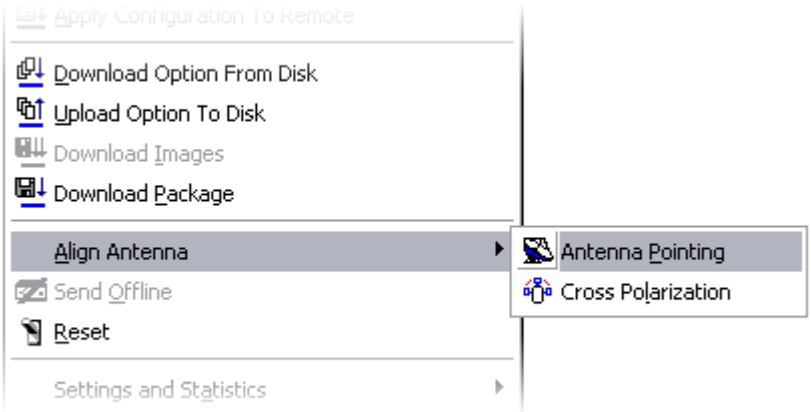
If you are aligning the dish yourself, you will need to do the following:

a) Calculate your estimated dish pointing angles:
Visit http://www.satsig.net/ssazelm.htm
Input the **satellite orbit**: W6=21; W3A=7; AM22=53; W2A=10
Input your **latitude** and **longitude** and click calculate

This will return **azimuth** (magnetic) which is the left and right movement of the dish; **elevation**, the up and down movement of the dish; and the **polarisation**, which is the rotation angle of the feed assembly.
Use these value to point the dish is the right direction

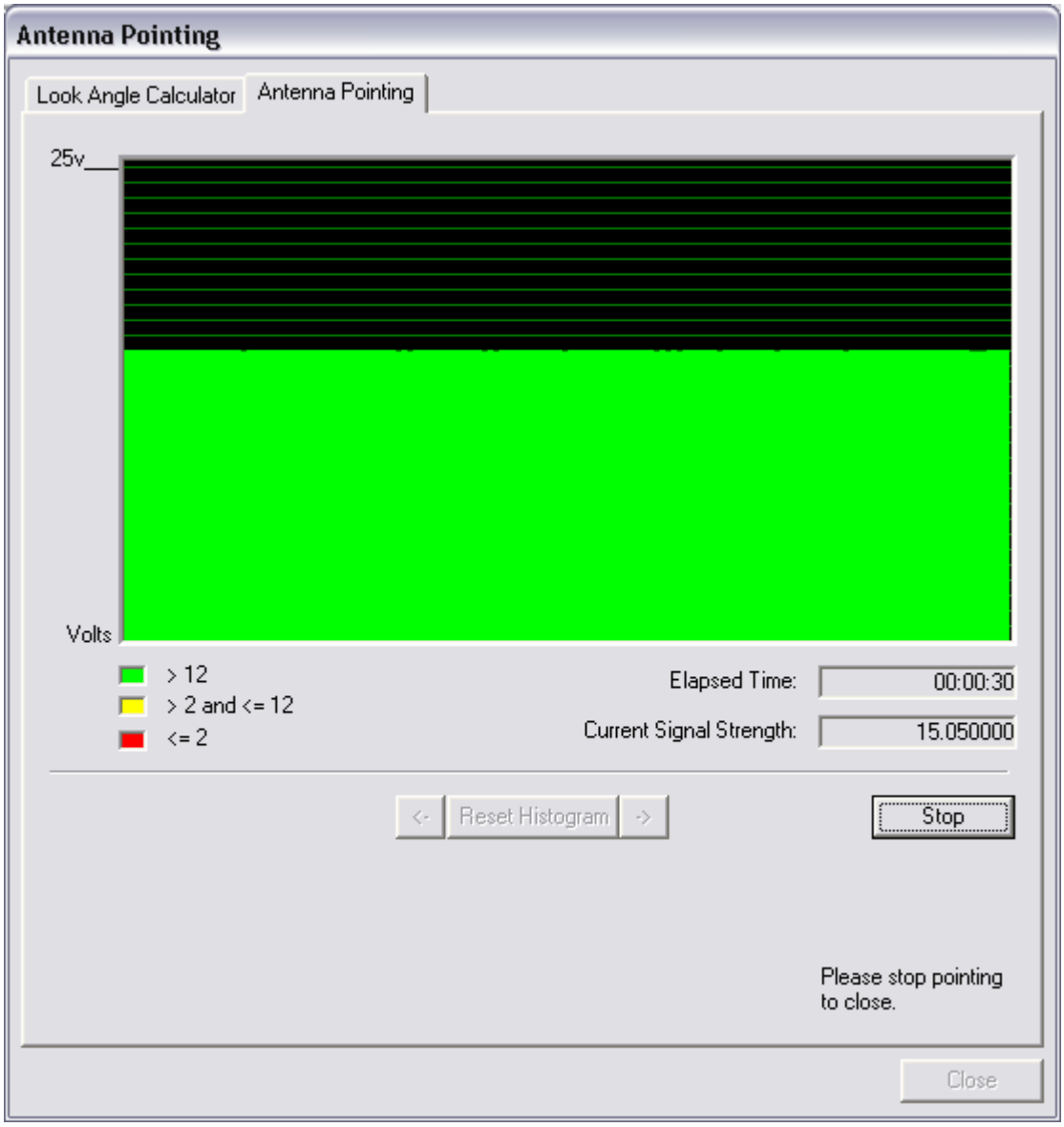
b) We recommend using a **Satellite Meter** such as a MaxPeak or Horizon to then find the satellite signal

c) Once you have a lock on the signal, open up the "antenna pointing tool" in iSite by right clicking on the remote and selecting "Align Antenna" > "Antenna Pointing"

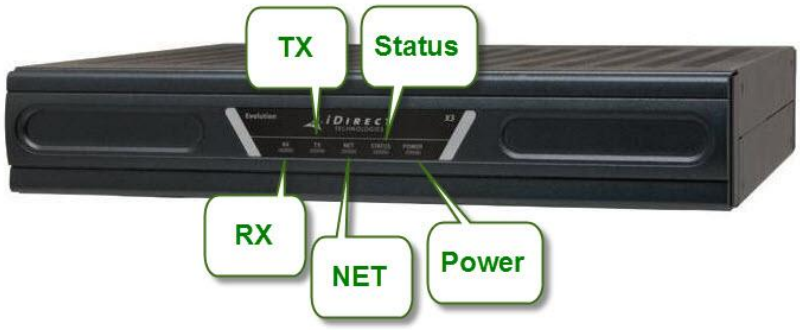


Click on the "Antenna Pointing" tab at the top then click "Start"

After a short period, the graph will start showing data; use this to adjust the dish until you are seeing around **16v**



6. Activating the modem



a) You will need to check if transmit is **enabled**.

Open a command prompt and type "**telnet**" space, then the modems IP address

The username will be **admin** and password will be either **bentleys2** (W3A/W6 S2), **eutelsat2008** (AM22), **eutelsat** (SeSat2/W6 S1) or **london12** (W3A S1)

Once logged in, type the command: **tx iflDC** (note that "DC" must be uppercase)

If this is set to **off**, retype the command: **tx iflDC on**

b) If everything is setup correctly, the **RX** and **Power light** on the front of the modem will be **solid green**

c) You will then need to contact Technical Support to request activation

Should you encounter any difficulties setting up your modem, please contact WAFA technical support:

support@wafa.ae

+971-2-6334216

or raise a support ticket if you have the facility to do so.