

SurfBeam 2 Modem Lock Job Aid

Summary

This Job Aid covers:

[Prepare for Modem Lock](#)

[Obtain Modem Lock](#)

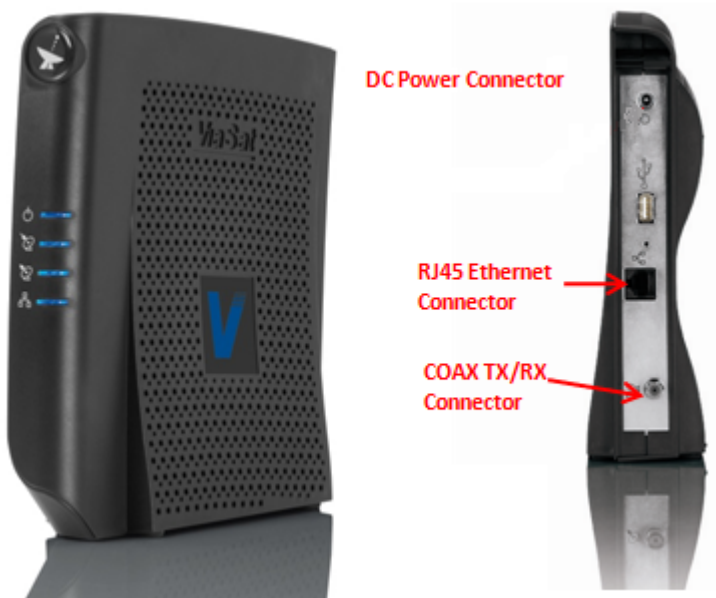
[Software Updates](#)

This Job Aid supports all audiences. This Job Aid applies to both new installations and service calls where a modem is replaced. This Job Aid also describes the software update process that may occur during the Modem Lock process.

Prepare for Modem Lock

Once you complete the pointing and peaking process, review the modem Graphical User Interface (GUI), and confirm that the last box in the Coarse to Fine Pointing section has a green check button.

If this green check button is missing, repeat the point and peak process.



Obtain Modem Lock

Follow this step, and observe the modem's activity as it obtains Modem Lock.

In the graphical user interface, click the forward arrow at the lower right corner of the screen.

The modem leaves Installation Mode, and the Basic Status screen appears.



Review the activity of the **Basic Status** screen as it proceeds through modem lock.

Modem Lock occurs when all three boxes show green check marks.

For more detailed information about the process, click the Modem box (the first of the three boxes). The **Modem/IFL Cable Status** screen appears.



Basic Status

- HOME
- MODEM
- TRIA

GENERAL

MODEM

IFL

TRIA

ViaSat Modem 192.168.100.1/?page=modemStatus

ViaSat SurfBeam® 2 SATELLITE MODEM

STATUS SurfBeam® 2 Satellite Modem

Modem/IFL Cable Status

- HOME
- MODEM
- TRIA

MODEM STATE

Status Online Time: 000:00:00:00

Scanning

GENERAL

Rx Power: 0.0 dBm

Cable Resistance: 0.5 Ohms

Rx SNR: 0.0 dB

Cable Attenuation 0.0 dB

ODU Telemetry status: Active

IDENTIFICATION

IP Address	0.0.0.0	MAC Address	00:A0:BC:2F:3F:FF
Software Version	UT_1.2.1.0.11	Hardware Version	UT_7_P3_V1
Serial Number	282911230807	Part Number	1113450003
IFL Type	Single		

ETHERNET INTERFACE STATISTICS

Transmitted Bytes	0	Transmitted Packets	0
Received Bytes	0	Received Packets	0

Process breakdown:

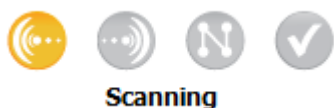
Link Acquisition

Power LED on

2nd LED flashes, then goes solid



Modem State reads: Scanning, Syncing, Ranging, Ranged



Registration

Power LED on

2nd LED on

3rd LED flashes, then goes solid

Modem State reads: Network Entry



DHCP Acquisition

Power LED on

2nd LED on

3rd LED on

4th LED flashes, then goes solid



Modem State reads: DHCP, undefined

(continued on the next page)

Process breakdown (continued)

Modem Lock

Power LED solid

2nd LED flicker

3rd LED flicker

4th LED flicker

LEDs flicker with data activity during normal modem operation.

Modem State reads: Online

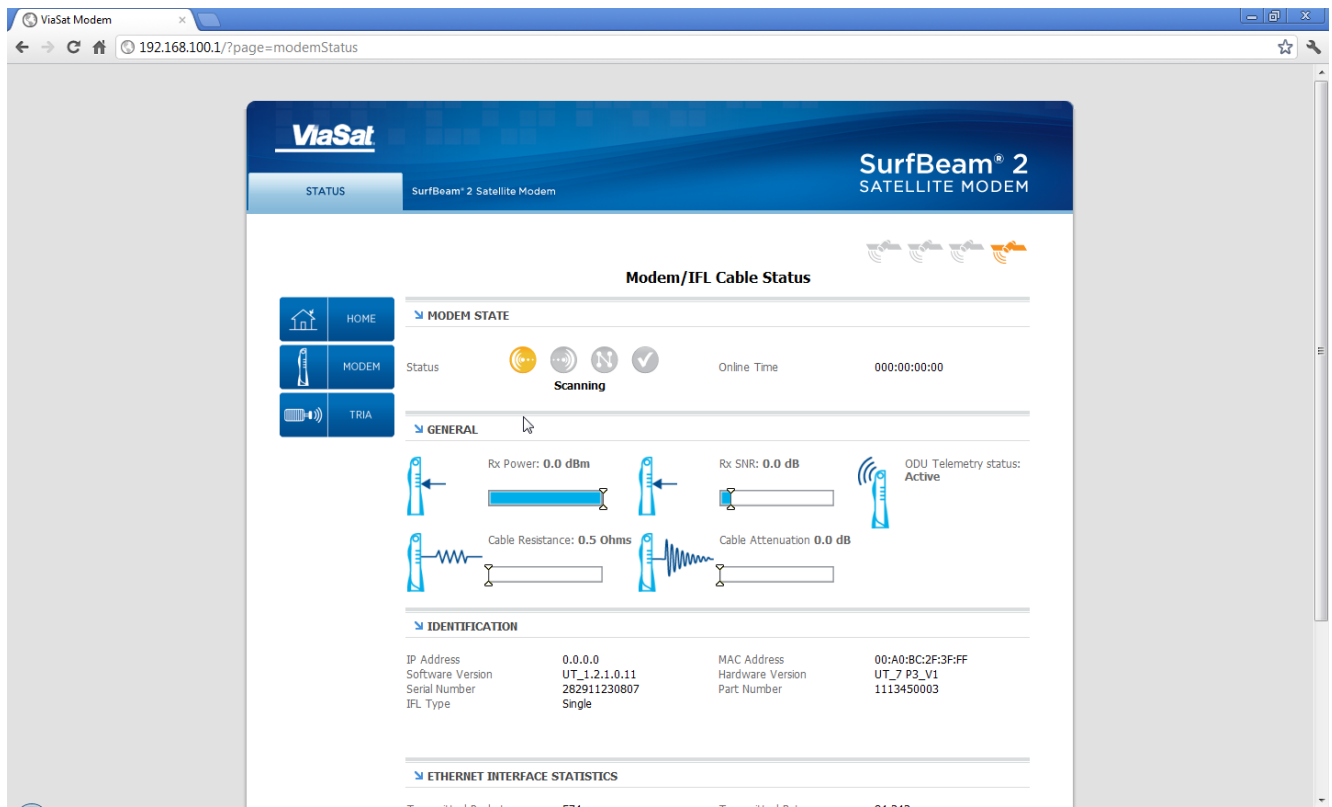


Note: If the modem's software requires updating, this stage may last for several minutes. **Do not interrupt the process.**

See section **Software Updates** below for more information.

Proceed to the Provisioning Process

Software Updates



The SurfBeam 2 (SB2) modem is an upgradable modem. This means that as changes occur in the Viasat network, the network may detect that the modem requires a software (firmware) update once the modem has achieved modem lock. This occurs automatically; ***however, it is critical that you recognize that an update is in progress and wait until it is complete before proceeding to provisioning.***

Recognizing a Software Update in Progress

You are encouraged to make note of the software version listed on the Modem/IFL Cable Status page at the beginning of the modem lock process.



After the modem obtains modem lock, the status indicator reads 'Online.' If a software download is available, the indicator's label changes to read 'Software Download.'

While the update is in progress, the 2nd LED flashes and the 4th LED flashes twice as fast.

This stage may last for several minutes. **Do not interrupt the process.**

Once the software download process is complete, the modem will have to reboot and go through the modem lock process from the beginning. **Do not interrupt the process.**