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SAILOR 500/250/150 FleetBroadband
SAILOR Fleet One/EXPLORER 727/ 325

Software release version 1.24

Subject:

Please be informed that a new software version 1.24 for the following Cobham SATCOM products has been released:

- SAILOR 500 FleetBroadband TT-3740A
- SAILOR 250 FleetBroadband TT-3742A
- SAILOR 150 FleetBroadband TT-3744A
- SAILOR Fleet One TT-3744A-00581
- EXPLORER 727 TT-3722A
- EXPLORER 325 TT-3721A

Priority:

- **MEDIUM:** It is recommended to apply this change / initiative to all units in stock. For units sold it is recommended to apply this change / initiative next time the system(s) is inspected.

Major changes from software version 1.23 to version 1.24:

- Support for speed in cm/s in tracking protocol
 - Requires changes in the Tracking Server. Appendix I.
- Support for Cisco NSD box on EXPLORER 727 / EXPLORER 325
 - GX to BGAN fallback
 - E727 will be restricted to Class 1 (X-Stream/on-the-pause) operation when working in NSD setup.
Class 10 operation must be restored manually if UT leaves NSD setup

Important bug-fixes

- Terminal cannot register at corrupted satellite table
- DHCP server not working correct on /30 net
- General improvements

Action:

Download file **FBB_E325727_FleetOne_ver_124.zip** located at Cobham SATCOM Sync partner login: <https://sync.cobham.com/> - or at the Cobham SATCOM Sync Support section: <https://sync.cobham.com/satcom/support>. Save and extract to your hard drive.

Download software from the terminal web MMI:

Alternatively, the file can be downloaded from the Cobham SATCOM FleetBroadband update server via the SAILOR web server (shown below). Please note that if this is over air transmission, it will add cost to your airtime bill. **File size is approximately 7.0 MB!!**

From web MMI/interface:

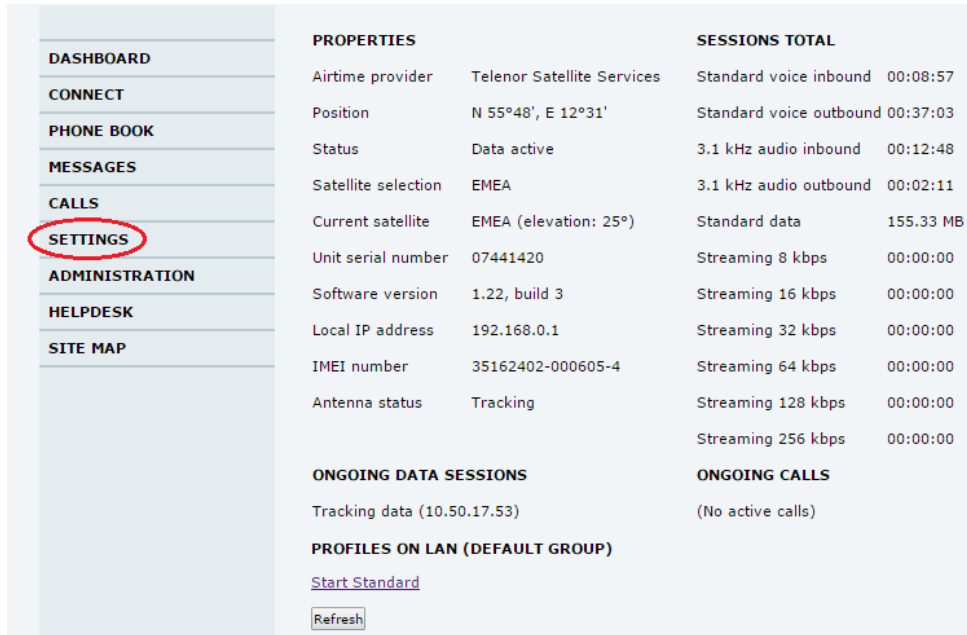
1. Make sure the terminal is switched on and connect the Ethernet cable to your PC.
2. Open your web-browser and open the web interface of the terminal at address <http://192.168.0.1/>
3. Select **SETTINGS**.
4. Select **Upload**.
5. Select **Check for updates** and when found, press download and save the file.
The file is approx 7.0 MB. Airtime fee applies!

The screenshot shows the terminal's web interface. On the left is a navigation menu with options: DASHBOARD, CONNECT, PHONE BOOK, MESSAGES, CALLS, SETTINGS, LAN, Phone/Fax, ISDN, Common, IP handsets, Discrete I/O, Tracking, Upload, Satellite selection, Language, ADMINISTRATION, HELPDESK, and SITE MAP. The main content area is titled 'CHECK FOR SOFTWARE UPDATES' and displays 'Current software version 1.19'. A 'Check for updates' button is circled in red. Below this, it shows 'Latest available Not checked...' and 'File size'. The next section is 'UPLOAD SOFTWARE TO TERMINAL', featuring a 'Choose File' button (currently showing 'No file chosen') and an 'Upload' button. At the bottom, there is a disclaimer: 'Disclaimer for Downloading and Uploading software: Please be informed that downloading and installing software from the Thrane & Thrane web portal is at your own risk. Thrane & Thrane is not to be held liable for any possible damage with respect to downloading and installing software to your SAILOR 500 FleetBroadband.' Below the disclaimer is support information: 'If you have problems or questions with respect to downloading software or uploading your terminal please be informed that you will have to contact the Thrane & Thrane distributor from where the terminal was purchased or contact your local Thrane & Thrane distributor.' and a final note: 'Please be advised that you will not be able to contact Thrane & Thrane for end user support and that we always recommend that software upgrades are being carried out by official Thrane & Thrane distribution partners.'

6. When the software is downloaded to the hard disk of the PC, follow the description below for updating the terminal.

Procedure for INSTALLING version 1.24

1. Make sure the terminal is switched on and connect the Ethernet cable to your PC
2. Open your web-browser and open the web interface of the terminal at address <http://192.168.0.1/>
3. Select **SETTINGS**.



The screenshot shows the terminal's web interface. On the left is a vertical navigation menu with the following items: DASHBOARD, CONNECT, PHONE BOOK, MESSAGES, CALLS, SETTINGS (circled in red), ADMINISTRATION, HELPDESK, and SITE MAP. The main content area is divided into three sections: PROPERTIES, SESSIONS TOTAL, and ONGOING DATA SESSIONS. The PROPERTIES section lists various system details like airtime provider, position, status, and satellite selection. The SESSIONS TOTAL section shows a list of active sessions with their respective data rates and durations. The ONGOING DATA SESSIONS section shows tracking data for the IP address 10.50.17.53. Below this, there is a section for PROFILES ON LAN (DEFAULT GROUP) with a 'Start Standard' link and a 'Refresh' button.

PROPERTIES		SESSIONS TOTAL	
Airtime provider	Telenor Satellite Services	Standard voice inbound	00:08:57
Position	N 55°48', E 12°31'	Standard voice outbound	00:37:03
Status	Data active	3.1 kHz audio inbound	00:12:48
Satellite selection	EMEA	3.1 kHz audio outbound	00:02:11
Current satellite	EMEA (elevation: 25°)	Standard data	155.33 MB
Unit serial number	07441420	Streaming 8 kbps	00:00:00
Software version	1.22, build 3	Streaming 16 kbps	00:00:00
Local IP address	192.168.0.1	Streaming 32 kbps	00:00:00
IMEI number	35162402-000605-4	Streaming 64 kbps	00:00:00
Antenna status	Tracking	Streaming 128 kbps	00:00:00
		Streaming 256 kbps	00:00:00

ONGOING DATA SESSIONS

Tracking data (10.50.17.53)

PROFILES ON LAN (DEFAULT GROUP)

[Start Standard](#)

4. Select **Upload**.



The screenshot shows the terminal's web interface with the 'Upload' option in the left navigation menu circled in red. The main content area is titled 'ANTENNA' and displays the following information: Antenna bootloader version: 1.0, Antenna software version: 1.53, and Antenna serial number: 0. Below this is the 'L-BAND CONNECTOR' section, which includes a radio button for 'L-band connector' currently set to 'Disable' (with 'Enable' also visible). At the bottom of this section are 'Apply' and 'Cancel' buttons.

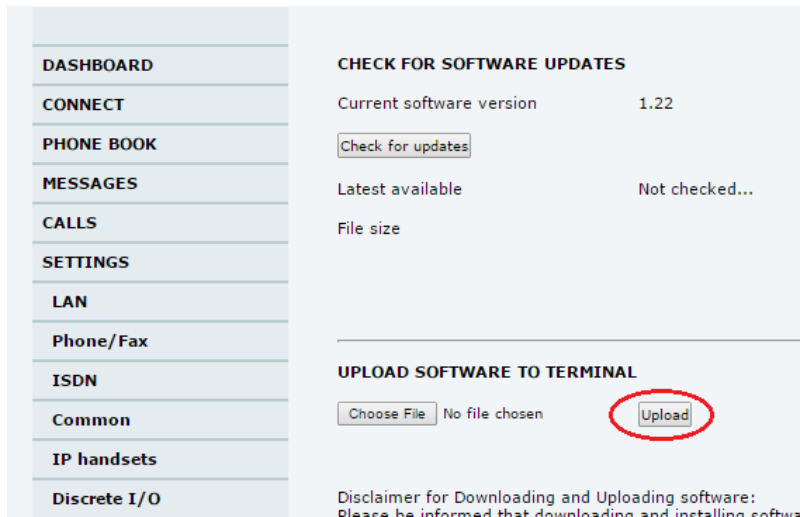
ANTENNA	
Antenna bootloader version:	1.0
Antenna software version:	1.53
Antenna serial number:	0

L-BAND CONNECTOR

L-band connector Enable Disable

Continued...

- Click **Browse...** locate and select the software file stored and extracted to **bganx_bdu_1_24-0002.dl**, with Windows Explorer. Click **Upload** and verify that the upload is in progress.



- When the upload is done, the terminal will reboot. Select the address <http://192.168.0.1/> again and verify that the software version is listed as: **1.24, build 2**.

	PROPERTIES	SESSIONS TOTAL
DASHBOARD	Airtime provider: Telenor Satellite Services	Standard voice inbound: 00:00:00
CONNECT	Position: N 55°48', E 12°31'	Standard voice outbound: 00:01:09
PHONE BOOK	Status: Ready	3.1 kHz audio inbound: 00:00:00
MESSAGES	Satellite selection: Auto	3.1 kHz audio outbound: 00:00:00
CALLS	Current satellite: EMEA (elevation: 25°)	Standard data: 32.51 MB
SETTINGS	Unit serial number: 07441420	Streaming 8 kbps: 00:00:00
ADMINISTRATION	Software version: 1.24, build 2	Streaming 16 kbps: 00:00:00
HELPDESK	Local IP address: 192.168.0.1	Streaming 32 kbps: 00:00:00
SITE MAP	IMEI number: 35162402-000605-4	Streaming 64 kbps: 00:00:00
	Antenna status: Tracking	Streaming 128 kbps: 00:00:00
		Streaming 256 kbps: 00:00:00
	ONGOING DATA SESSIONS	ONGOING CALLS
	(No active data sessions)	(No active calls)
	PROFILES ON LAN (DEFAULT GROUP)	
	Start Standard	
	<input type="button" value="Refresh"/>	

Please note that the terminal might start an antenna software upgrade after the reboot. Make sure that the upgrade has ended before disconnecting the antenna or switching the system off. **(All LEDs on the terminal must eventually turn green and no warning in the event list).**

- End of update procedure.

Appendix I

Support for speed in cm/s in tracking protocol

TRACK_CMD_SETUP_REQ

This message is an extension to the original Tracking protocol and will therefore not be supported by all TOB implementations. If the TOB support the command it will respond with a TRACK_CMD_RESP with CAUSE_OK.

By default the TOB will report speed in m/s (TRACK_POS_EXT_IND / TRACK_POS_EXT_3D_IND). If higher accuracy is needed this message enable the TIG to instruct TOB to report in cm/s. TOB will revert to default setting (m/s) next time TRACK_REGISTER_REQ is sent.

This message should be sent by TIG immediately after TRACK_REGISTER_ACK.

Message ID: TRACK_CMD | 0x07

Direction: TIG -> TOB

Primitive	Type	Description
head	messageHeader	General message header.
transId	U8	Identification of the specific command/response transaction.
setupMask	U16	Bit-field. Currently only the least significant bit is used. All other bits must be set to 0. 0x0 Report speed in m/s. 0x1 Report speed in cm/s. All other values reserved for future use.

Above are excerpts from Interface Control Document (ICD) Rev.C which can be requested from Customer Service.

Cobham SATCOM
Customer Service