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EXPLORER® 540
Software version 1.06

Subject:

Please be informed that a new software version 1.06 has been released.
This version includes new features, updated features and bug fixes.

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.

Changes from initial software version 1.05 to version 1.06:**New Features:**

PRISM now supports BGAN Cold Standby

- BGAN link is only connected if cellular connection fails

Additional functionality during Cold Standby mode

- Connect wait time is the time between a failed cellular connection and the start-up of the BGAN connection
- Disconnect wait time, wait time from when the cellular connection is back up, and the BGAN connection is closed.

More detailed control of reboot and ping settings

- General ping interval, ping interval after first failure and maximum number of failed pings can be adjusted separately for BGAN and Cellular connections
- Reboot delay can be configured. The amount of time the terminal will hold off on rebooting if a PRISM server cannot be reached.
- Connect delay can be configured. The amount of time the terminal will hold off on connecting after a failed connection attempt. Can be used to limit airtime usage during PRISM server downtimes,

Support for secondary PRISM server, used if the connect sequence to the primary server fails.

Support for PRISM link testing by pinging a test server

New configurable features when using "External modem" or "Cellular modem" preferred:

- Ability to postpone link switching back to Cellular if data is currently being transferred.
- Probe ping interval, interval between pings to determine whether the primary cellular interface is up again after a failure.

- Number of successful ping replies determines the number of pings needed to declare the primary link up again after a failure.

New AT commands implemented

- AT_ITEXTMODEM *get/set external modem settings
- AT_ITWANSWITCH *get/set Wan Switching settings
- AT_ITLINKMON *get/set values related to Link Monitoring
- AT_ITPRISMSRV *get/set values related to PRISM server settings
- AT_ITPRISMPING *get/set values related to ping settings
- AT_ITPRISMCONF *get/set values related to PRISM-specific configuration
- AT_ITMSH *provide access to the shell of the external modem
- AT_ITARP *provide a list of the ARP table of the EXPLORER 540
- AT_ITLINKSTATUS *status of the BGAN and modem links

Advanced Modem settings provides additional settings:

- Select Connection Id (CID) value, necessary when changing between at least AT&T and Verizon SIM cards.

Support for new external modems:

- NimbeLink NL-SW-LTE-S7588
- Nimbelink NL-SW-LTE-S7648
- Nimbelink NL-SW-LTE-TC1NAG
- Nimbelink NL-SW-LTE-TC4NAG

Updated Features:

PRISM settings moved to separate tile in Web Interface

PRISM server must now be installed on Ubuntu 20.04

Connection Watchdog now accepts intervals down to 1 minute (5 minutes before)

Bug fixes:

Terminal could enter a deadlock when using PPPoE connections where the connections initially fail, and all subsequent attempts was rejected until the terminal is restarted.

Slightly increased time between modem connects on failure (for US modems)

- Some cellular networks will bar the modem if too many attempts are failing within a given timeframe.
- Now maximum of 2 fast connection attempts (within 10 seconds) after which the time between attempts is slowly increased up to 10 minutes.

QBG96 modem with AT&T SIM has been fixed

Fix for AT+COPS command being very slow (> 10 minutes) affecting some modems

General improvements.

Please note that changes in version 1.06 is being reflected in

- EXPLORER 540 User & integrator's manual, 98-148232-I
- EXPLORER 540 Installation guide, 98-148231-F
- EXPLORER 540 Cellular Modem, Installation guide, 98-174222-B
- EXPLORER 540 LTE Modem, Installation guide, 98-148233-A

Action:

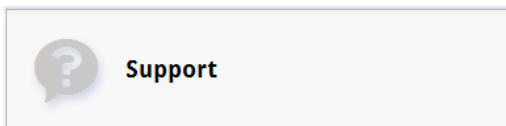
Download & extract file **EXPLORER540_ver_106.zip** located at Cobham SATCOM Sync partner login: <https://sync.cobham.com/> - or at the Cobham SATCOM Sync Support section: <https://sync.cobham.com/satcom/support>.

To update the software in the EXPLORER 540 via the web interface, do as follows:

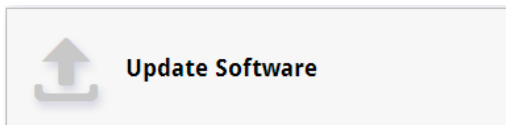
1. Open the web interface at address <http://192.168.0.1> or <http://ut.bgan> and enter the Control panel.



3. Click Support.



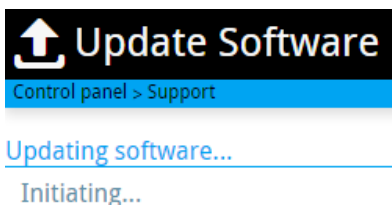
4. Click Update Software.



5. Click Update software.



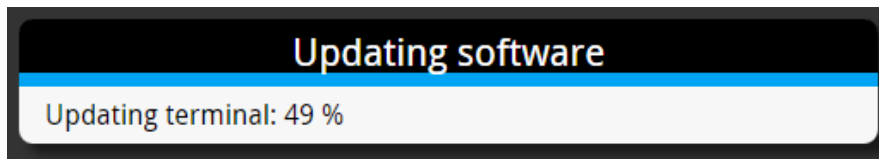
6. Browse to the new software version and click Open. The software file has the extension ".tiif". The EXPLORER 540 will upload the file and start updating the software.



Important! – Do not remove power to the terminal during the update process!!

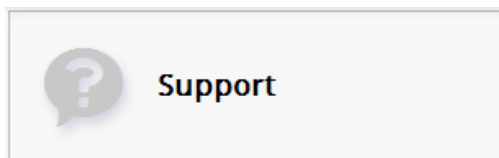
The EXPLORER 540 now reboots to continue the update process.

Shortly after the reboot, the update process can be followed in the web interface at <http://192.168.0.1> or <http://ut.bgan> by login as 'user'.



Checking web interface for correctly loaded software version 1.06 Build number 17:

7. Enter Control panel as in step 1 - and Click Support.



8. Click About.



Remote software upgrade:

You can initiate a remote software upgrade with an AT command, either from the command interface or encapsulated in an SMS (ATCO command).

For detailed syntax and parameters, see page 42 and Appendix B of the user manual.

AT_IGETFW=1

Will command the terminal to get the software from the default FTP server via default APN and download and then upgrade the software in the terminal.

Note: With M2M subscription you can use Inmarsat's M2M FUP server (default FTP server for software upgrade like in example above). This is not available for Non-M2M subscriptions.

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