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**EXPLORER 8000 Series**  
**EXPLORER 8100 Ku, EXPLORER 8100 Ka (Viasat eTria), EXPLORER 8120**  
**SW ver. 1.61 Build10**

**Subject:**

Please be informed that software, version 1.61 build 10 for the EXPLORER 8000 series antennas has been released.

The new software includes support for the EXPLORER 8000 series terminal and improvement of existing functions and features.

**Priority:**

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

**Changes from SW ver. 1.59 Build15 to SW ver. 1.61 Build10**

- **New features and improvements**
  - General improvements of security for "admin" account
    - New 'Local Admin' activation. Appendix I
  - Improved motor & brake control
  - User Command Line Interface (UCLI) option to enter BUC LO frequency
  - Cable loss calibration user configuration (on/off/fixed)  
Appendix II
- **Known problems**
  - None

## Software upload procedure.

1. Extract the "EXPLORER\_SW\_ver\_161B10.zip" file
2. Open an Internet browser on the PC and enter the web address to the EXPLORER 8000 antenna at <http://192.168.0.1>.
3. Select **ADMINISTRATION**.

Enter **ADMINISTRATOR LOGIN:**

**User name:** (default = admin (case sensitive))

**Password:** (default = 1234)

4. Locate UPLOAD SOFTWARE TO TERMINAL on the SERVICE page, browse and select the new software file tt7xxx\_1.61-10-acu.tif
5. The EXPLORER 8000 system will reboot.
6. Verify that the page shows the new software version numbers currently loaded in the ACU **1.61 build10**.

This concludes the SW upgrades procedure.

Kind regards,

**Cobham SATCOM**

Global Customer Service

## Appendix I

### General improvements of security for "admin" account

To get the new full functionality a 'reset to factory' is necessary – meaning existing admin password will only be changed by a factory reset.

To login as ADMIN:

Enter admin username and password as normal

OR:

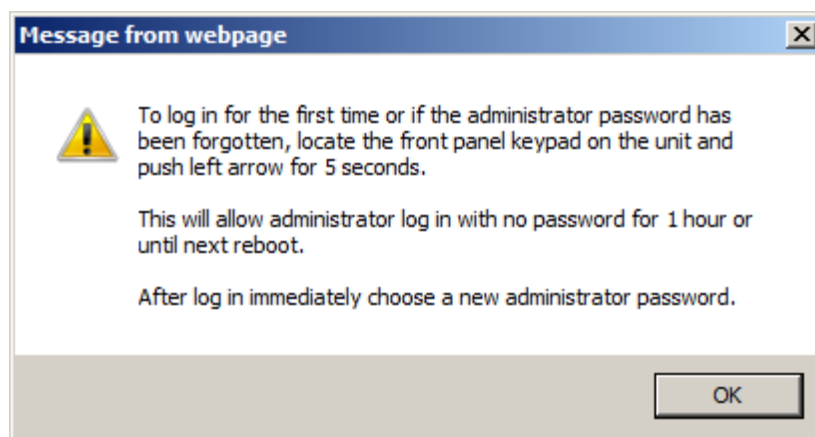
Press the ACU left keypad for 5 seconds to enable the 'local administration function'. This will allow a login as 'admin' without the use of a password.

For new installations or forgotten password, please immediately change the password.

Note the following details

- ACU will automatic log out after 1 hour or next reboot.
- Accessing the ACU with 'local administration function' does not change the current admin account password.
- After a factory default reset, the admin password will be disabled and only login using the 'local administration function' will be possible.
- Min length for 'admin' password is 8 characters.

A new link on the login page will display a short help text as below.



## Appendix II

### Cable loss calibration user configuration

Choose from three types of cable calibration

- Cable calibration: The system will make a complete cable calibration
- User defined system gain: Allows you to set a fixed gain.
- Disabled (default setting): The gain is set at a minimum (RF attenuator setting) and no cable calibration is made. It is up to the modem to make the necessary adjustments.

User defined system gain:

Used in the scenario where it is necessary to lower P1dB point in the modem.

Example P1dB = -15 dB. System gain: 39 dB + 15 dB = 54 dB

**TX cable calibration**

Type ☐ Cable calibration ☒ User defined system gain ☐ Disabled

Changing system gain will affect the maximum cable length.

System gain  dB

Status Calibration ready

Result Ok

Attenuator margin 14.50 dB

Disabled:

System gain is set to maximum.

The nominal system gain will then be approx. +70dB in the example below.

**TX cable calibration**

Type ☐ Cable calibration ☐ User defined system gain ☒ Disabled

Disabling the Tx cable calibration will set the system gain to maximum. Alignment of Tx gain versus frequency will be disabled.

Status Calibration ready

Result --

Attenuator margin 14.00 dB