

Extreme Telematics Corp. - Software Release Notes

Release Information

Product: PIT Boss

Date: Aug 25, 2011

Release Number: 5.6.1

Files: pitboss-5-6-1.etc

Scope: Feature Enhancement and bug fixes

New Features

- [\[PIT-84\]](#) - Add fast trip limitations to old pitboss platform

Bug Fixes

- [\[PIT-85\]](#) - Disable Non Arrival Count and backup implementation issue

Outstanding Issues

- [\[PIT-6\]](#) - Fast Trip time default is less than the sensor delay time
- [\[PIT-8\]](#) - Fast Trip time can be set below sensor delay by the operator
- [\[PIT-34\]](#) - Arrival Sensor can't be set to Three Wire thru Modbus
- [\[PIT-71\]](#) - Enter appears to select the currently displayed scrolling item
- [\[PIT-76\]](#) - Close Time can be pushed above Max Close and the max value possible

Outstanding Features

- [\[PIT-5\]](#) - Add ESD shutdown on a high tank level

Upgrade Instructions

It is recommended that the controller be removed from the well before the upgrade is performed.

Prerequisites

You must have the following equipment to upgrade the controller:

- Battery
- Laptop with a USB port
- USB to RS485 converter
- Latest Firmware file from Extreme Telematics

Setup

1. Ensure that the USB to RS485 converter is configured in 2 wire mode.
2. Wire the RDA(-) to COM1 B and RDB(+) to COM1 A. The GND can be wired to the unlabelled connection on COM1 between A and B.
3. Install the drivers that were provided with the USB to RS485 converter

4. Plug it into an available USB port

Upgrade Procedure

1. Hold the **Menu** button down
2. Plug the battery into the controller
3. Release the **Menu** button
4. If the controller does not enter the upgrade program, the previous software that was installed may not include this program. Please contact ETC.
5. Follow the prompts on the screen to erase the current firmware
6. When prompted to do so, download the firmware
 - a. Open the ETC Upgrade Utility
 - b. Find the latest etc file.
 - c. Select the appropriate COM port.
 - d. Click Connect
 - e. Select download
7. The display on the controller should change to show the status of the download.
8. When the download is complete, the controller should start normally.

Upgrade Errors

During the download of a firmware image, errors may occasionally occur. If this does happen, simply repeat the procedure again, making sure to erase the current firmware. If an error occurs multiple times in a row, contact Extreme Telematics Corp.

The following is a list of errors that may be seen:

- **Err 01 – Invalid file format.** The Bootloader found information in the serial stream that did not match the expected format. This could be a transmission error or an error with the file.
- **Err 02 – Dropped Characters.** While parsing the incoming stream, extra characters were detected. This typically means that some data was lost.
- **Err 03 – Character Buffer Overrun.** Incoming characters were lost because we were too busy processing to service the incoming data. Please contact ETC if this occurs.
- **Err 04 – Flash Buffer Overrun.** This means that there is a back log saving to the controller. Please contact ETC if this occurs.
- **Err 05 – Character Buffer Underrun.** We were expecting to parse more incoming characters, but there are none available. Please contact ETC if this occurs.



Extreme Telematics Corp.
111, 1144 29th Ave NE
Calgary, AB
T2E 7P1
Ph: (403) 290-6300
Fax: (403) 290-6301
Email: info@etcorp.ca