Luna PED Firmware 2.5.0-3

UPGRADE INSTRUCTIONS

Document part number: 007-012337-001 Revision A
Document issued on: 13 August 2013

Contents

Description

This document describes how to upgrade the firmware on your Luna PED from version 2.4.0-3 (or higher), to version 2.5.0-3.

> ⚠️ **CAUTION**: This upgrade applies to Luna PEDs running firmware 2.4.0-3 or higher. Do not apply this upgrade to a Luna PED running firmware prior to 2.4.0-3. Doing so will cause the pre-2.4.0-3 Luna PED to lose remote PED functionality.

Files Included in this Upgrade Package

The update package includes the following files. All of the files are required to successfully perform the update:

- **ped-2.4.1-2.bin**
- **ped-2.5.0-3.bin**
- **LunaPED_Update.exe**

Upgrading the Firmware

These upgrade instructions describe how to perform the following tasks. You must perform all of the tasks, in the order specified, to successfully perform the update:

1. Prepare the Luna PED for the upgrade. See "Preparing the PED for the Firmware Upgrade" on page 2.
2. Upgrade the Luna PED firmware to version 2.4.1-2. See "Upgrading the Luna PED Firmware to Version 2.4.1-2" on page 3.
3. Upgrade the Luna PED firmware from version 2.4.1-2 to version 2.5.0-3. See "Upgrading the Luna PED Firmware from Version 2.4.1-2 to Version 2.5.0-3 on page 4.

Preparing the PED for the Firmware Upgrade

Before you can install the new firmware, you must configure the PED to accept the upgrade.

To prepare the PED for the firmware upgrade

1. Ensure that the Luna client, including the Remote PED option, is installed on your Windows PC. To verify, ensure that the following files/directories are installed:
   - C:\Program Files\SafeNet\LunaClient\RemotePEDDriver
   - C:\Program Files\SafeNet\LunaClient\pedserver.exe
2. Connect power to the Luna PED and connect the USB cable between the Luna PED and your Windows PC.
3. Allow the PED to boot normally.
4. Press the **<** key to display the **Mode** menu.
5. Select **4** to display the **Admin** menu.
6. Select **7** for **Software Update**.
7. Select **0** to reset the PED and immediately press and hold the **<** key while the PED is resetting. Continue to hold the **<** key until the **Select Mode** menu is displayed.
8. Select **USB Mode (4)** when prompted to **Select Mode**. The PED displays **USB mode**.

Upgrading the Luna PED Firmware to Version 2.4.1-2

You must upgrade the Luna PED firmware to version 2.4.1-2 before you can complete the upgrade to firmware version 2.5.0-3.

To upgrade the Luna PED firmware to version 2.4.1-2

1. Copy the files in the upgrade package to the Windows PC that is connected to the Luna PED you are upgrading.

2. On your Windows PC, open a command prompt window, move to the directory where you copied the files in the upgrade package, and execute the following command:

   prompt> **LunaPED_Update.exe ped-2.4.1-2.bin**

3. Follow the prompts on the Luna PED display to complete the update as follows:

   a. Select **Yes** is response to the prompt: **Software update. Upload Image? YES/NO.**

   b. Wait for 5-10 seconds. The output of the update command in the Windows command prompt should be similar to the following:

   ```
   LunaPED_Update v2.0.0-1 Jan  7 2013 12:44:48
   PED operation is required (to upload image)...
           (Sent 783098 bytes in 4789000 microsecs).
   PED operation is required (to save image)...
   ```

   c. If the image has been sent correctly, the PED displays the following message:

   ```
   USB Mode
   Software update
   ** WARNING **
   A power failure during save is unsupported!
   Save Image? YES/NO"
   ```

   Select **Yes** to save the new image.

   d. Wait for 10-20 seconds. The PED displays the following message:

   ```
   USB Mode Software update
   Success
   Press ENTER
   ```

   Press the **Enter** key on the PED to continue.

   e. If you receive an error at the Windows command prompt that is similar to one of the following messages, take the appropriate action, as indicated:

Error message	Description
ERROR: rx error (-1) #2	This error may occur if there is a connection error, for example, if Luna PED prompts are not answered in time, or if there is a bad USB connection or cable.
	Repeat the upgrade operation. If it continues to fail, try using a different cable, or change the cable location to reduce interference. Ensure that you respond to the PED prompts in a timely fashion.
ERROR: software update was cancelled (-1)	This error may occur if you attempt to update **ped-2.5.0-3.bin** first, followed by **ped-2.4.1-2.bin**, which is the incorrect order of update. The correct order is to update **ped-2.4.1-2.bin** first, followed by **ped-2.5.0-3.bin**.

4. Press and hold the **<** key on the PED to return to the **Select Mode** menu.

5. Select **0** to reset the PED.

> ⚠️ **CAUTION**: Do not select NORMAL BOOT. If you have a remote PED and you select NORMAL BOOT you will lose remote PED functionality.

6. As the PED boots, the following message is displayed:

   ```
   IPL V 2.4.1-2
   ```

> 📝 **NOTE**: The PED will continue to display **PED V.2.4.0-3** on the **Select Mode** screen.

7. The PED is now ready for the 2.5.0-3 firmware update. See "Upgrading the Luna PED Firmware from Version 2.4.1-2 to Version 2.5.0-3" on page 4.

Upgrading the Luna PED Firmware from Version 2.4.1-2 to Version 2.5.0-3

You must upgrade the Luna PED firmware to version 2.4.1-2 before you can complete the upgrade to firmware version 2.5.0-3. See "Upgrading the Luna PED Firmware to Version 2.4.1-2" on page 3.

To upgrade the Luna PED firmware from version 2.4.1-2 to version 2.5.0-3

1. Ensure that you have upgraded the Luna PED firmware to version 2.4.1-2 before attempting to complete the upgrade to version 2.5.0-3. See "Upgrading the Luna PED Firmware to Version 2.4.1-2" on page 3.

2. Press the **<** key to display the **Mode** menu.

3. Select **4** to display the **Admin** menu.

4. Select **7** for **Software Update**.

5. Select **0** to reset the PED and immediately press and hold the **<** key while the PED is resetting. Continue to hold the **<** key until the **Select Mode** menu is displayed.

6. Select **USB Mode (4)** when prompted to '**Select Mode**. The PED displays **USB mode**.

7. In the command prompt window on your Windows PC, execute the following command:

   prompt> **LunaPED_Update.exe ped-2.5.0-3.bin**

8. Follow the prompts on the Luna PED display to complete the update as follows:

   a. Select **Yes** is response to the prompt: **Software update. Upload Image? YES/NO.**

   b. Wait for 5-10 seconds. The output of the update command in the Windows command prompt should be similar to the following:

   ```
   LunaPED_Update v2.0.0-1 Jan  7 2013 12:44:48
   PED operation is required (to upload image)...
           ((Sent 974066 bytes in 6349000 microsecs).
   PED operation is required (to save image)...
   ```

   c. If the image has been sent correctly, the PED displays the following message:

   ```
   USB Mode
   Software update
   ** WARNING **
   A power failure during save is unsupported!
   Save Image? YES/NO"
   ```

   Select **Yes** to save the new image.

   d. Wait for 10-20 seconds. The PED displays the following message:

```
USB Mode Software update
Success
Press ENTER
```

Press the **Enter** key on the PED to continue.

e. If you receive an error at the Windows command prompt that is similar to one of the following messages, take the appropriate action, as indicated:

Error message	Description
ERROR: rx error (-1) #2	This error may occur if there is a connection error, for example, if Luna PED prompts are not answered in time, or if there is a bad USB connection or cable.
	Repeat the upgrade operation. If it continues to fail, try using a different cable, or change the cable location to reduce interference. Ensure that you respond to the PED prompts in a timely fashion.
ERROR: software update was cancelled (-1)	This error may occur if you attempt to update **ped-2.5.0-3.bin** first, followed by **ped-2.4.1-2.bin**, which is the incorrect order of update. The correct order is to update **ped-2.4.1-2.bin** first, followed by **ped-2.5.0-3.bin**.

9. Press and hold the **<** key on the PED to return to the **Select Mode** menu.

10. Select **0** to reset the PED.

11. Once the PED has booted , select the < key to exit, and verify the PED version is correct (Now 2.5.0-3).

12. The PED 2 firmware update is now complete.

Trademarks and Disclaimer

Although we have attempted to make this document as complete, accurate, and useful as possible, we cannot guarantee its contents. Errors or omissions will be corrected, as they are identified, in succeeding releases of the product. Information is subject to change without notice.

Copyright 2013. All rights reserved.

Luna and the SafeNet logos are registered trademarks of SafeNet, Inc.