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Big Pipe LT STL System
BP100 Multiplexer
Firmware Upgrade Application Guide

597-1200-004 Revision B
2/12/10

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BP100 Multiplexer
Firmware Upgrade Application Guide

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1 Purpose of this Document

The purpose of this document is to provide the necessary information for upgrading firmware in BP100 Multiplexers.

2 Tools / Items Needed

- ☐ BP100 Multiplexer Firmware Upgrade CD (or files downloaded from the B.E. Website)
- ☐ Personal Computer
- ☐ Ethernet Crossover Cable

3 Estimated Setup Time

Providing that you have the tools listed above, it will take approximately 10 minutes to complete the firmware upgrade for each BP100 Multiplexer in your system. Please note that the Multiplexers will be off of the air during this process.

4 Firmware Upgrades

Please note that all Multiplexers in your STL system must be upgraded to ensure compatibility. Repeat the following process for each Multiplexer in your STL system.

Step 1 – Either download the firmware upgrade files (2) from the B.E. website or copy them from the upgrade CD to the hard drive "C:\" of your PC.

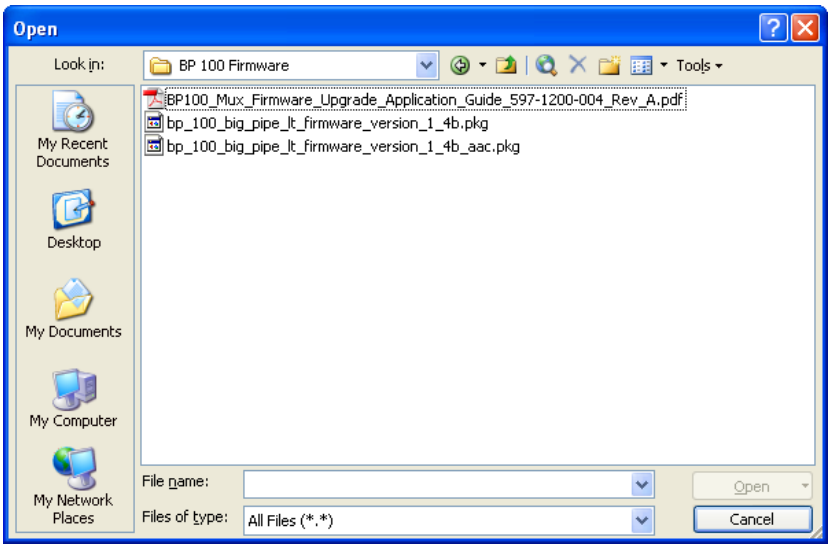

Figure 1 – Copy Firmware Upgrade Files to your PC

Step 2 – Ensure that the Multiplexer is ON and operational.

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Step 3 – Disconnect the Ethernet cable from the Multiplexer.

Step 4 – Connect an Ethernet Crossover Cable from your PC to the Network port on the Multiplexer.

Step 5 – Ensure that your PC is on the same I.P. family as the Multiplexer.

Step 5a – On your PC go to **Start -> All Programs -> Accessories -> Communications ->** and select **Network Connections**.

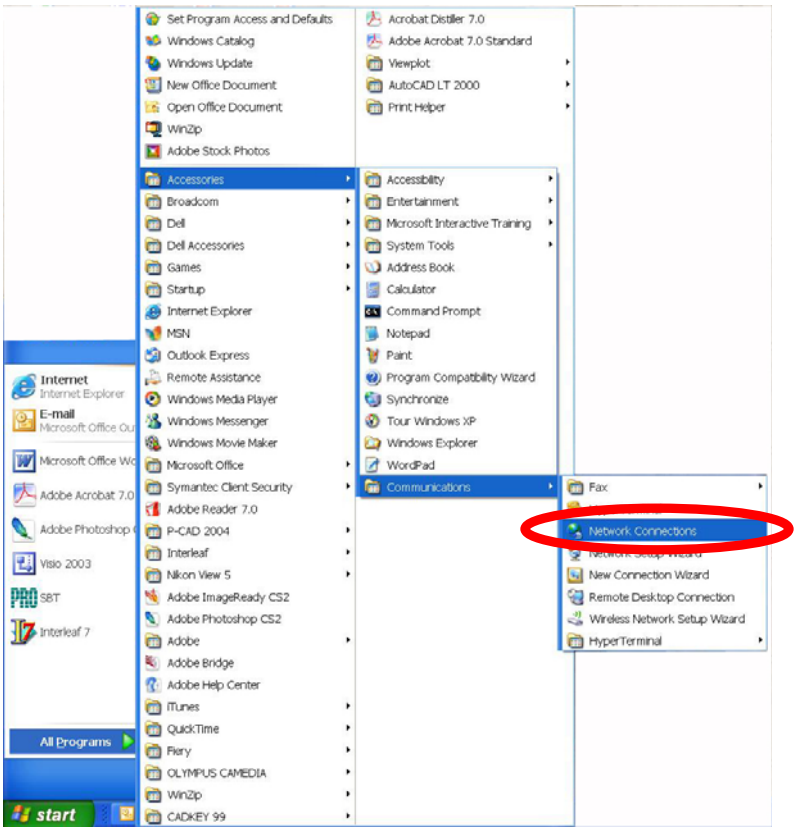

Figure 2 – Network Connections

Step 5b – Right click on **Local Area Connection** and select **Properties.**

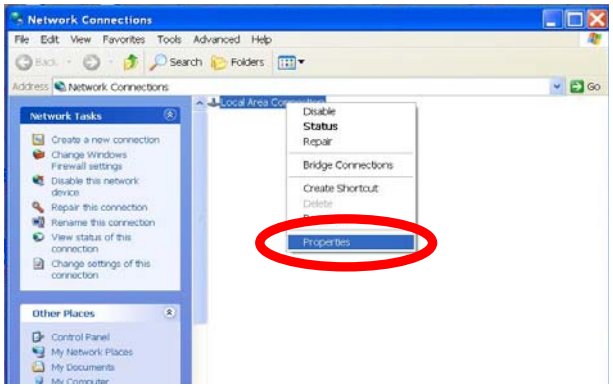

Figure 3 – Local Area Connection

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Step 5c – Since the default I.P. address of the Multiplexer we are connected to is either 10.0.0.130 (Studio Site) or 10.0.0.131 (Transmitter Site) with a subnet mask of 255.0.0.0, we configure the PC with an I.P. of 10.0.0.1 and 255.0.0.0 for the Subnet Mask.

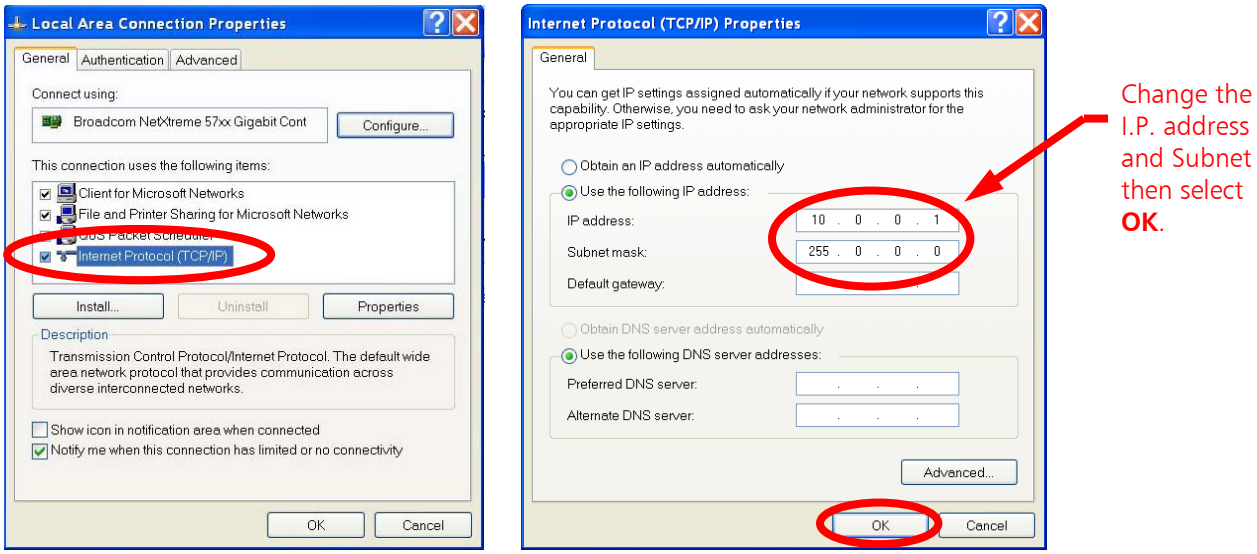

Figure 4 – Setting the I.P. and Subnet Mask of the PC for Communication

Step 6 – Launch your web browser and enter the I.P. address of the Multiplexer that you are upgrading (10.0.0.130 for Studio Site; 10.0.0.131 for Transmitter Site).

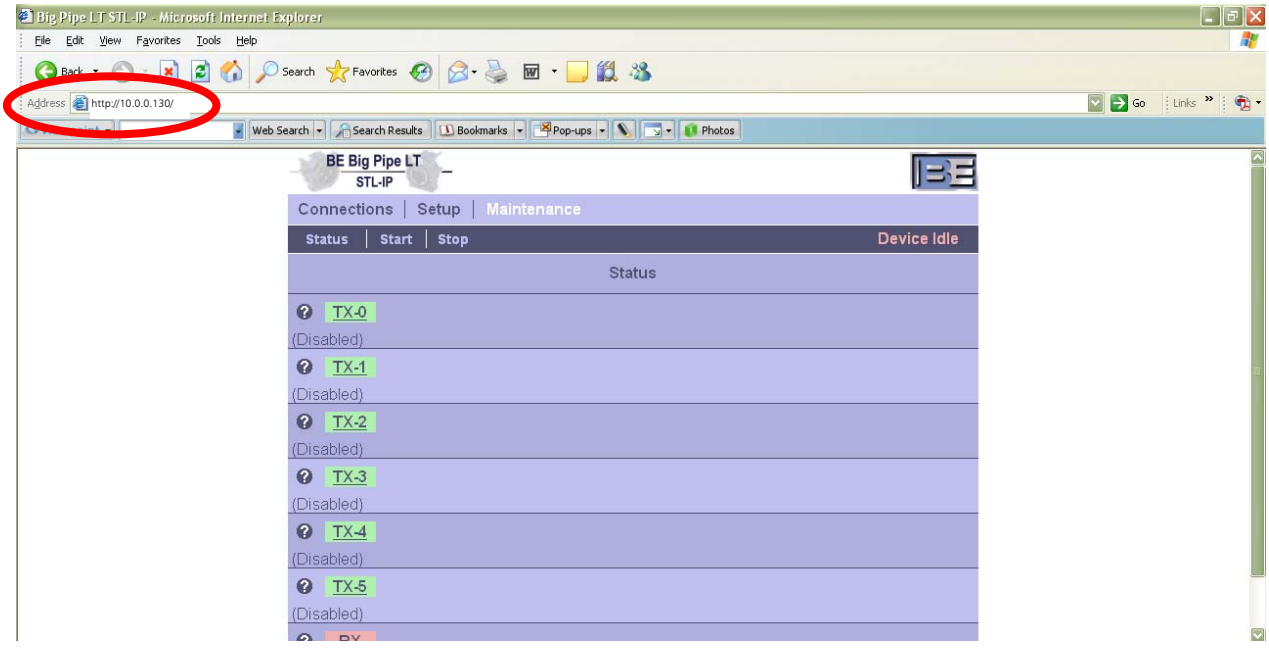

Figure 5 – Access the Multiplexer via a Web Browser

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Step 7 – Select **Connections -> Stop.**

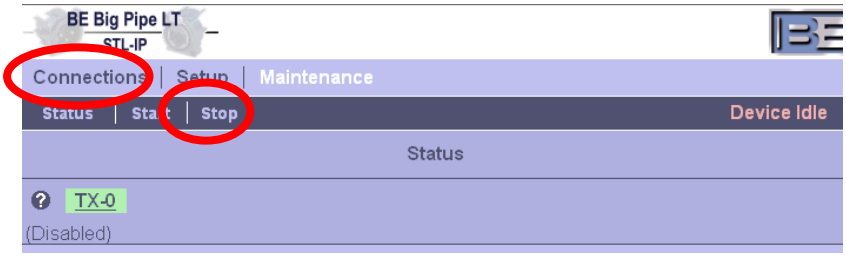

Figure 6 – Stop the Connection

Step 8 – Select **Maintenance -> Upload.**

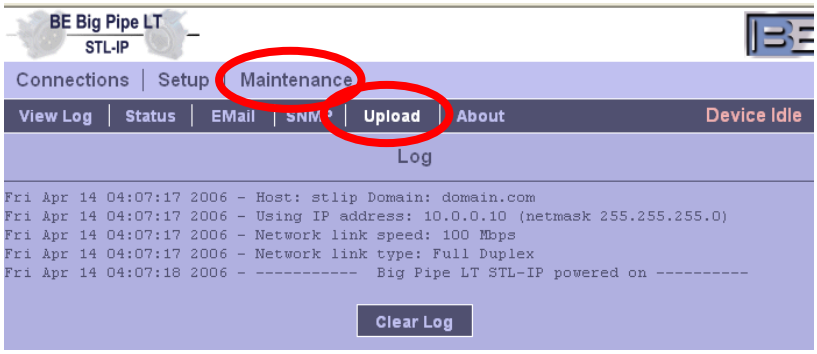

Figure 7 – Upload

Step 9 – Browse to the first upgrade file, **bp_100_big_pipe_lt_...**, and then select **Update Firmware.**

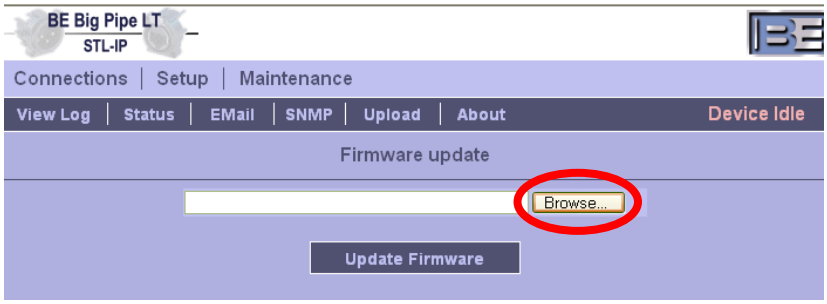

Figure 8 – Browse to file

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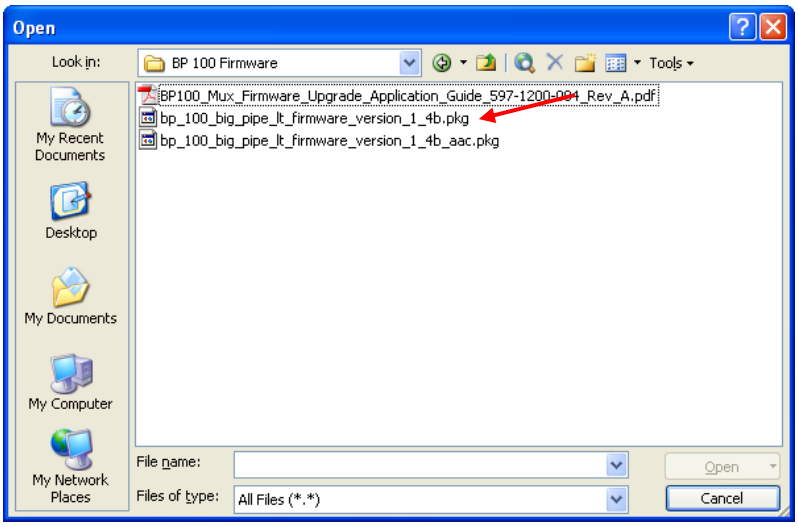

Figure 9 – Select file

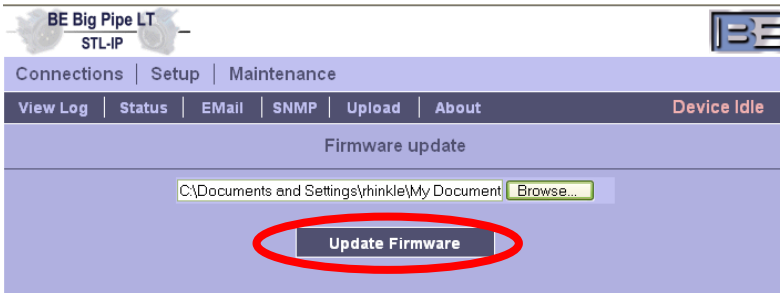

Figure 10 – Update Firmware

Step 10 – Select **OK.**

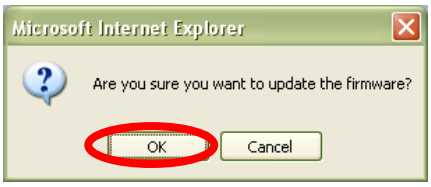

Figure 11 – Update Firmware

Step 11 – The following screen will now appear (will take ≈ 30 seconds).

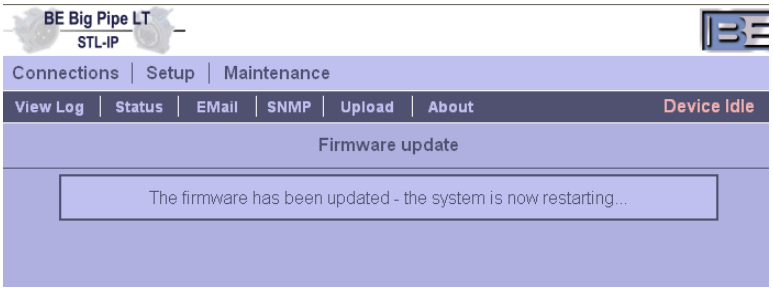

Figure 12 – Firmware Updated

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Step 12 – Next, browse to the second upgrade file, **bp_100_big_pipe_lt_...aac.pkg**,, and then select **Update Firmware.**

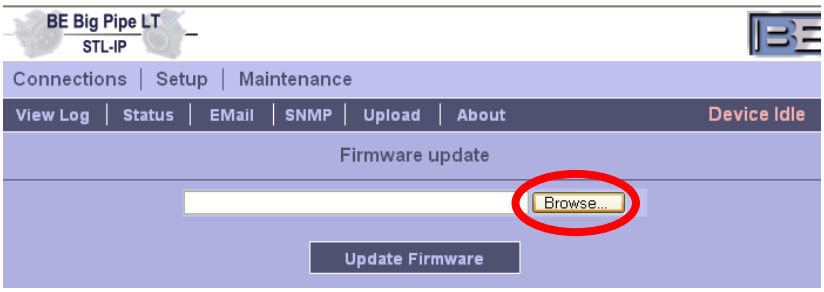

Figure 13 – Browse to file

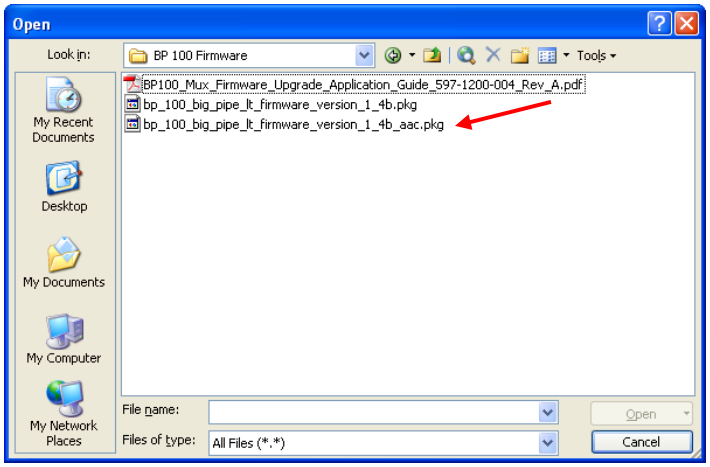

Figure 14 – Select file

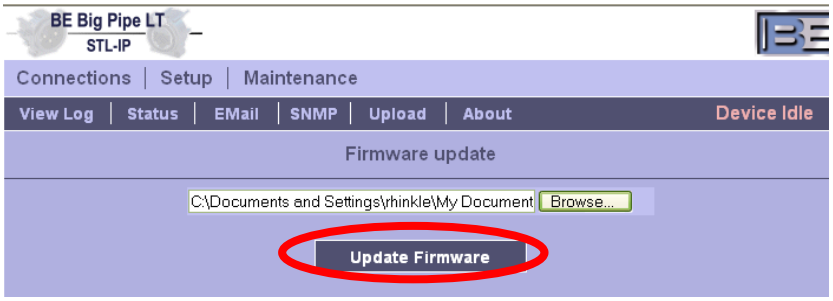

Figure 15 – Update Firmware

Step 13 – Select **OK.**

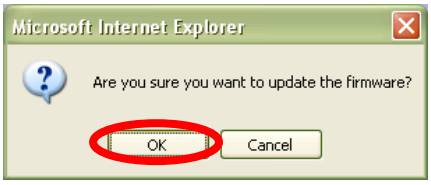

Figure 16 – Update Firmware

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Step 14 – The following screen will now appear (will take ≈ 30 seconds).

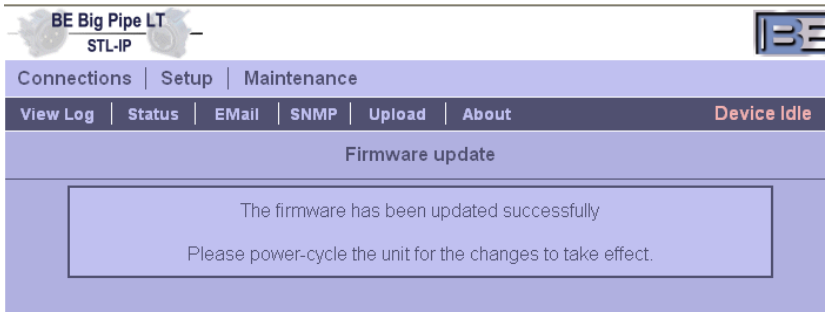

Figure 17 – Firmware Updated

Step 15 – Disconnect the Crossover Ethernet Cable from the Multiplexer.

Step 16 – Re-connect the Ethernet Cable (from the IDU) back to the Multiplexer.

Step 17 – Turn the Power on the Multiplexer OFF (wait 5 seconds) then turn back ON.

Step 18 – IMPORTANT! Repeat the entire process for each Multiplexer in your system.

Step 19 – When all of the Multiplexers in your system have been upgraded, restart the connection.

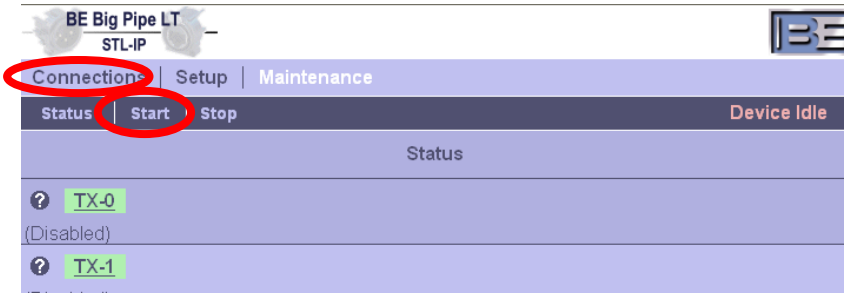

Figure 18 – Restart Connection

5 RF Technical Services Contact Information

RF Technical Services -

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