LVIP-T
Firmware Revision 3.0.1.4
Release Notes
June 26th 2008

This document outlines:

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LVIP-T System Firmware Version and Compatibility
Version 3.0.1.4
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Version 3.0.1.4 of LVIP-T transmitter firmware is intended to be used in a system with the following LVIP system-component revisions:
- LVIP-T Revision 3.0.1.4
- LVIP-R Revision 3.0.1.4
Version 3.0.1.4 is compatible with the following revisions:
- 3.0.0.16
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Important Installation Notes
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When upgrading directly **it is important to upgrade LVIP-T transmitters before upgrading LVIP-R user stations (receivers).**
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How to Upgrade Firmware
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The transmitter can be upgraded using a serial or http upgrade procedure, as described below.

Procedure 1 - Serial port upgrade of the LVIP-T transmitters.

1. Power up the receiver (LVIP-R) and transmitter (LVIP-T) and make sure there is a connection between them.
2. Connect the receiver via a null modem cable to a PC running HyperTerminal or equivalent. Configure the HyperTerminal session for 57600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.
3. From the first screen on the console, select option 2 to access the Transmitter menu. If the password option is enabled, you will be prompted for a password ("password" is the default).
4. From the Transmitter menu select option 3; "*Firmware Management*".
5. Confirm that Transmitter has upgraded correctly by checking the "appliance information" on the console menu.
6. Choose *Transmitter Flash Upgrade Via XMODEM.*
7. Specify the location of the upgrade file *TX0000_3014.dld* and initiate the file transfer. The upgrade should be completed in approximately 17 minutes.
8. The upgrade will be complete approximately 5 minutes after you receive the message "connection to Transmitter Lost".
9. Connect again via the serial menu to the TX and confirm the new revision.

Procedure 2 - Upgrade using HTTP:

1. Power up the receiver (LVIP-R) and transmitter (LVIP-T) and make sure there is a connection between them.
2. Connect the receiver via a null modem cable to a PC running HyperTerminal or equivalent. Configure the HyperTerminal session for 57600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.
3. Choose option 2 on the *Main Menu* to access the *Transmitter menu*. If the password option is enabled you will be prompted for a password.
4. From the *Transmitter menu* select option 3 "*Firmware Management*".
5. Choose *Transmitter Flash Upgrade Via HTTP.* You will be prompted to enter the URL for the upgrade file.
6. Enter the URL for the upgrade file using the following syntax:
   http://<server IP address>[:server port]/<upgrade file path>
   For example:
   http://192.168.0.1:8080/TX0000_3014.dld
   Note: If the server is set up on standard port 80, the port information can be omitted.

7. The upgrade should take approximately 3 minutes.

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Enhancements
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This release adds the following enhancements:

1. USB Keyboard and Mouse:
   - Improvements in reliability of USB connection and disconnection when switching. A generic keyboard and mouse are now permanently connected to the computer from the transmitter.
   - Keyboard and mouse are available at the same time as video when switching. Previously, keyboard and mouse became available several seconds after the video.

2. vMedia:
   - Improvements in the reliability of connection and disconnection when switching. The vMedia device is not automatically connected to the computer after switching (see notes below).

3. Video Support:
   - Improvements in the compatibility between the user monitor and the computer graphics card. This ensures that the computer will not be requested to output a video resolution that is incompatible with the LVIP-R receiver, and users will be prompted if the video resolution is incompatible with their monitor.

4. Switching Speed:
   - Switching speed had been reduced to approximately 6 seconds.

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Fixes
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1. USB Keyboard and Mouse:
   - Previously, keyboard and mouse was occasionally not available after making a switch to a computer and this required a power cycle of the receiver to recover.
   - The receiver now supports simultaneous PS2 and USB keyboard or mouse.

2. vMedia: Improvements in the reliability of connection and disconnection when switching. The vMedia device is not automatically connected to the computer after switching (see notes below).
   - vMedia previously not being detected on a Linux® computer
   - Previously, USB memory keys were not reliably detected on MAC Targets.

- Previously copying very large files from the USB memory stick could cause USB to hang.

3. Video Support:
- During BIOS, video could be disconnected if the keyboard was pressed.
- EDID issues resolved where in previous revisions the maximum resolution available was 800 X 600 despite the monitor being capable of far higher resolutions.
- EDID communications are now faster than 3.0.0.16.

4. Switching:
- Previous versions required a power cycle of the receiver after approximately 900 switches.

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Notes
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1. Multimedia keyboard keys are not supported.

2. After switching to a computer, the vMedia is only connected to the computer after a hot-plug of the vMedia device.

3. In the event that a monitor does not support the resolution output by the computer, the receiver and transmitter automatically set the resolution to the default resolution advertised by the monitor, thereby providing a clipped view of the computer's desktop. The resolution can then be adjusted as necessary. This may cause scrolling video in the case where the resolution output by the computer is less that the default resolution of the monitor.