DTX5002-R
Firmware Revision 3.0.0.16
Release Notes
May 26th 2008

This document outlines:

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2. Important Installation Notes
3. How to Update Firmware
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DTX5002-R System Firmware Version and Compatibility
Version 3.0.0.16
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Version 3.0.0.16 of DTX5002-R firmware is intended to be used in a system with the following DTX system-component revisions:

- DTX5002-T Revision   3.0.0.16

- DTX5002-R Revision   3.0.0.16

- DTX5000-CTL Revision   2.0.0 Build# 5430

Version 3.0.0.16 is compatible with the following revisions:
- 1.4.0.13
- 1.4.1.16

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Important Installation Notes
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When upgrading directly **it is important to upgrade DTX5002-T transmitters before upgrading DTX5002-R user stations (receivers).**

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How to Upgrade Firmware
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The receiver can also be upgraded using a serial or http upgrade procedure, as described below.

Prior to upgrading/downgrading:

1. Remove any attached vMedia devices (memory key or CD\DVD ROM).

2. When reverting to a previous version of firmware always set:
      a. The Network Speed on both Transmitter and Receiver to Auto-Negotiate.
      b. The Target Video to DVI-Normal or VGA-Normal.

Procedure 1 - Serial port upgrade of the receivers

1. Power up the receiver (DTX5002-R) and transmitter (DTX5002-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 1 to access the receiver menu. If the password option is enabled, you will be prompted for a password.

4. From the Receiver menu select option 3; "*Firmware Management*".

5. Choose *Receiver Flash Upgrade Via XMODEM.*

6. Specify the location of the upgrade file *RX1000_30016.dld* and initiate the file transfer. The upgrade should be completed in approximately 21 minutes.

Procedure 2 - Upgrade using HTTP:

1. Power up the receiver (DTX5002-R) and transmitter (DTX5002-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 1 on the *Main Menu* to access the *Receiver menu*. If the password option is enabled, you will be prompted for a password.

4. From the *Receiver menu* select option 3 "*Firmware Management*".

5. Choose *Receiver 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/RX1000_30016.dld

   Note: If the server is set up on standard port 80, the port information can be omitted.

7. The upgrade should take approximately 13 minutes.

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Enhancements
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1. Matrix mode is now available on DTX5002-T
2. 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.
3. 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).
4. 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 DTX5002-R receiver, and users will be prompted if the video resolution is incompatible with their monitor.

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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.
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. This is now resolved.
    - EDID issues resolved where in previous revisions the maximum resolution available was 800 X 600 despite the monitor being capable of far higher resolutions.

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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. vMedia devices only appear on the target computer when they are connected to a receiver. This was not the case in previous revisions where the transmitter appeared as a vMedia device.
4. 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.