DTX5000-R
Firmware Revision 2.1.0.13
Release Notes
January 16, 2008

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DTX5000-R System Firmware Version and Compatibility
Version 2.1.0.13
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Version 2.1.0.13 of DTX5000-R System firmware is intended to be used in a system with the following
DTX5000 system-component revisions:

-DTX5000-T Revision 2.1.0.13
   Application Revision 1.3.7.17
   Boot Revision   1.9.0.2
   FPGA Revision   1.1.3.5

-DTX5000-R Revision 2.1.0.13
   Application Revision 1.3.7.17
   Boot Revision   1.9.0.2
   FPGA Revision   2.1.3.4

- DTX5000-CTL Revision 1.0.3 Build# 5251

Version 2.1.0.13 of DTX5000-R System is compatible with the following DTX5000-T revisions:
- 2.1.0.13

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Important Installation Notes
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It is recommended that the DTX5000-R system be upgraded using the DTX5000-CTL firmware upgrade facility.
DTX5000-R revisions preceding 2.0.0.6 cannot be upgraded using the DTX5000-CTL.

When the DTX5000-CTL is not present the DTX5000-R can be directly upgraded using http or serial port based
upgrade. When upgrading directly **it is important to upgrade DTX5000-T Transmitters before upgrading DTX5000-
R Receivers.**

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How to Upgrade Firmware
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The DTX5000-R can be upgraded using a serial or http upgrade procedure, can also be upgraded using a serial or http
upgrade procedure, as described below.

1. Remove any attached vMedia devices (memory key or CD\DVD ROM) prior to commencing an upgrade or
 Downgrade

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 – Upgrade using DTX5000-CTL
This procedure assumes that the receiver is already being managed by DTX5000-CTL.

1. Upload the unit firmware file using the System > Unit Files > Add button in DTX5000-CTL.

2. In DTX5000-CTL, click on the Units tab. A list is displayed of all the units that are managed by DTX5000-CTL.

3. Click the appropriate unit name. The Unit Overview window will open.

4. In the Tools section, click the Upgrade Firmware icon. The Upgrade Unit Firmware wizard will launch.

5. Click Next. The Select Firmware Files window will open.

6. Select the appropriate firmware file and click Next. The unit will upgrade and reboot.

7. The upgrade should take approximately 2 minutes.

Multiple units can also be upgraded in parallel by using the Upgrade Firmware button on the **Units – All** screen in DTX5000-CTL.

Procedure 2 - Serial port upgrade of DTX5000-R

1. Power up the Receiver (DTX5000-R) and Transmitter (DTX5000-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 *Transmitter Flash Upgrade Via XMODEM.*

6. Specify the location of the upgrade file *RX0000_21013.dld* and initiate the file transfer. The upgrade should be completed in approximately 20 minutes

Procedure 3 - Upgrade using HTTP:

1. Power up the Receiver (DTX5000-R) and Transmitter (DTX5000-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 *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/RX0000_21013.dld

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

7. The upgrade should take approximately 2 minutes.

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Enhancements
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This release adds support for "matrix mode" capabilities, i.e. the ability to connect to and switch between target computers directly from the DTX5000-R Receiver.

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Fixes
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Notes
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1. The receiver supports one USB Keyboard and one Mouse. USB devices have precedence over PS/2 devices.
2. Multimedia Keyboard keys are not supported.
3. For Keyboards with both Touch-pads and Eraser heads, only the Touch Pad is supported.
4. Keyboard LEDs are not supported when the OSD is active.
5. In the unlikely event of having no Keyboard or Mouse connectivity after login, remove attached mass storage devices and disconnect from the target computer; connect again. If the keyboard/mouse is not restored try the following until restored. a) power cycle Receiver, b) power cycle Transmitter, c) power cycle Target PC.
6. In the event that after power cycling a Receiver the "Connection Failed retrying" message is received in Extender mode or the "Cannot send session certificate to <devicename>" message is received in Desktop mode, power cycle the Transmitter
7. Should a mass storage device's contents appear empty, it is recommended to hot plug the device. If its contents remain empty then disconnect from the target computer and connect again with no mass storage device attached.
8. When a Transmitter and Receiver are directly connected without using a DTX5000-CTL, it takes approximately 12 seconds for video, audio, keyboard and mouse to be operational after power-up of Transmitter or Receiver.
9. Use of memory key Hotplug is supported. However, it is recommended that the '*Eject*' mechanism is used prior to the removal of memory key devices. Use of the PC '*Safe Removal*' feature to eject vMedia devices is not required. If a user selects the the '*Safe Removal'* Option, the user is required to Hotplug USB cable #1 on the Transmitter
10. In the event that Transmitter or Receiver unit is removed and reconnected to the Ethernet network, power cycle the unit.
11. If the message "Login failed. Target device is already in use" appears repeatedly, and there is no active session to the target computer, remove the associated target computer and add it again in the Management Appliance.
12. In the event that the receiver is connected to a target computer, but the OSD appears to be logged out (i.e. Login button is enabled and Targets list is unavailable), it is necessary to power cycle the receiver to retrieve the Targets list.