

# InvisaPC DTX1000-R/T & DTX1002-R/T Platforms

## Firmware Revision 4.1.0 Release Notes

### June 28th, 2017

This document outlines:

1. InvisaPC DTX1032-R, DTX1000-R/T & DTX1002-R/T System Firmware Version and Compatibility
2. Installation Notes
3. Notes:
4. Change History

## **InvisaPC DTX1000-R/T & DTX1002-R/T System Firmware Version and Compatibility for Version 4.1.0**

Version **4.1.0** of InvisaPC DTX1000-R/T & DTX1002-R/T firmware has been validated in systems with the following versions of InvisaPC firmware:

- DTX1002-R	4.1.0
- DTX1002-T	4.1.0
- DTX1032-R	4.1.0
- DTX1000-R	4.1.0
- DTX1000-T	4.1.0

### **IMPORTANT:**

Note: Once upgraded to version 4.1.0, it will not be possible to downgrade to an older release prior to 3.4.1.

Older models of the DTX1000-R and DTX1000-T are not supported by version 4.1.0. Older models can be determined by the Manufacturing Part Number (MPN) on the label at the base of the unit or on the OSD information tab.

	DTX1000-T	DTX1000-R
New Model	300-015-xxx	300-013-xxx
Old Model	300-011-xxx	300-010-xxx

If using the DTX1032-R Manager to manage Transmitters and Receivers, upgrade the Manager first to the version shown above. In an unmanaged environment, the DTX1000-T or DTX1002-T Transmitter should be updated first with this new release.

**Note: If upgrading directly from a version older than 3.4.0, then the Receiver must be upgraded first.**

Please follow the upgrade procedures in order as listed below to upgrade an unmanaged system. For a Managed system, upgrade the Manager as listed below and use the Manager upgrade features to upgrade all managed Transmitters and Receivers.

### **Firmware Installation**

#### **To upgrade the Receiver (or Manager):**

1. Download the Receiver/Manager image RX\_DTX\_V4.1.0\_r\*\*\*\*.clu to the root of a memory stick. Please ensure the memory stick is formatted to a FAT file system.
2. Power up the Receiver/Manager and plug in the memory key.
3. Login and select the following menu options: Control > System > Upgrade
4. A list of .clu files located in the root of your memory stick will be displayed. Select the image file RX\_DTX\_V4.1.0\_r\*\*\*\*.clu. Select OK.
5. The files will be copied to the unit and a message will appear. Select OK.
6. The upgrade will begin and the Receiver/Manager will reboot once completed.
7. Once completed, log in and select the Information tab to review the software version.

#### **To upgrade the Transmitter:**

1. Download the Transmitter image TX\_DTX\_V4.1.0\_r\*\*\*\*.clu to the root of a memory stick. Please ensure the memory stick is formatted to a FAT filesystem.
2. Reboot both the Receiver and the Transmitter. Preferably have them connected point to point with a network cable.
3. On the Receiver, login and select the following menu options: Control > Transmitter.
4. Enter the IP address of the Transmitter and select Apply.
5. Select Upgrade.
6. Select the image file TX\_DTX\_V4.1.0\_r\*\*\*\*.clu. The Receiver will then initiate the Transmitter upgrade.
7. The Transmitter will reboot once the upgrade has completed.
8. A message will appear on the OSD stating Transmitter Upgrade was successful.

## Notes on this Release

- NTFS formatted drives are currently unsupported.
- Using an invalid IP address with the Transmitter information feature on the Receiver can sometimes cause the OSD to reload.
- System tray audio mute for Windows 7 and 8 not functioning when connected via Transmitter when using “Rx Local Audio” (no issue if using USB Re-direction).
- USB headset must be present before a connection using local audio is launched.
- If the receiver network settings are set statically when creating a connection broker connection use the broker IP instead of the hostname. (DTX1000-R & DTX1002-R).
- If the receiver network settings are set statically when creating a Web Access Server connection, use the Web Access Servers IP address and connection broker IP address rather than using their hostnames. (DTX1000-R & DTX1002-R).
- Static IP addressing **must** be implemented on Receivers and Transmitters to allow them to be managed.
- The Manager **must** be assigned a static IP address.

## Change History

### Current Release      4.1.0

#### **New Features and Enhancements:**

- Improvements to MAC keyboard compatibility.
- New Video source optimization feature setting added.
- New EDID ghosting feature added.
- Control Bridge support added.
- New Transmitter connection pooling added.
- Boxilla manager support added.
- USB-R compatibility enhanced.
- Added support for 720x400@70Hz resolutions.
- Touchscreen support enhanced.
- Diagnostics enhanced.

#### **Fixes:**

- Shared mode stability fixes when autologin and autoconnect enabled
- Issue of factory restore of appliances via manager failing has been fixed.
- Fixed possible duplication problems when managing devices on the DTX1032-R.
- Resolution changing has been made more robust.

## **Previous Releases**

### **Release 3.8.0**

#### **New Features and Enhancements:**

- Allow Admin to change device names on DTX1032-R Manager.
- Added support for ELO touchscreens.
- Enhanced Diagnostics added.
- Mouse performance is improved.
- Support 24Hz refresh rates.
- Restrict connections to only allow connectivity on Managed units within the same Manager domain.
- Can change OSD resolution of Managed unit.
- Added 1600x900 and 1366\*768 resolutions.
- Added mouse enabled hotkey.
- Added DKM compatibility.
- Added DCX3000 compatibility.
- Added EVS compatibility.
- Added simple HID option to allow compatibility with older PCs or non PC targets.
- Changed hotkey timing to make it easier to use.
- Added hotkey options to use simple configurations, i.e. no -O option required.
- Autologin user is configurable on Managed unit.
- Power users can powercycle remote transmitters.
- Support for Cherry keyboards + some other multimedia keyboards.

#### **Fixes:**

- Fixed issue where using keyboard to wake target PC would cause key to be held.
- Fixed connection dropping for dual video connections.
- Fixes issues with Network speed LEDs.
- Fixed issue where we were unable to wake a Windows 8.1 PC from sleep.
- Made GUI display properly on 800x600 OSD.
- Fixed issues where Restore did not restore OSD resolutions to default.
- Fixed issues where connection would drop.
- Last User setting was inconsistent on Managed units.
- Power Mode was inconsistent on Managed Units.
- Fixed issues where connection was dropping on 10MB link.
- Scroll works on mouse wheel.
- Removed password restrictions on RDWeb access.
- Various fixes for Virtual Machine connections.
- Discovery popup can be dismissed.

### **Release 3.7.1**

#### **New Features and Enhancements:**

- Invalid gateways are no longer permitted when changing Transmitter network settings in managed or un-managed mode.

#### **Fixes:**

- Various virtual USB fixes to improve stability.
- 1280x720 resolution now locking, apparent on some Nvidia graphics cards.
- Manager discovery fixes to resolve stability.
- Manager 100 and 250 license issues resolved.
- Managed devices now showing correct gateway address.
- Fixed issue where sometimes a receiver could not establish a connection across subnets.
- Running diagnostics on a dual head Receiver sometimes caused DVI 1 to blackout.
- ELO Touchscreen not responding after hotplug on OSD.
- The information tab for Receivers and Managers now displaying netmask address.
- Fixed various keyboard region issues regarding specific keys on the OSD and while in session.

## Release 3.6.8

### New Features and Enhancements

- Pre-emption Mode added to “connection modes” – this enables a connection that has pre-emption mode selected on Connection to be pre-empted (currently not permission-based but just forced).
- “Auto” mode for OSD resolution to allow it to select the “preferred” resolution of attached monitor.
- 1280x720 added as option to OSD resolution to allow easy use of Elgato’s Game Capture unit (which supports 720p & 1080p only for capture).
- Virtual USB to support up to two non-HID type USB devices (Headsets, Flash Drives, printers, USB-Serial convertors, etc.). Also, ELO Touchscreen and Minolta Konica printer.
- Shared mode – unicast-based shared mode to share video and keyboard/mouse from a common transmitter.
- Persistent Mode to set a connection to be continuously re-tried even when network path is unavailable until a hot-key entered.
- Diagnostics feature for Receiver and Transmitters to create files that can be used for debugging problems in the field.
- Active directory support on default connection per group.
- Active Directory Support with audio, dual head and USB configuration options.
- Ability to add license to manager to allow 100/250 devices/users to be supported.
- Can’t set a Transmitter’s IP address to be the same as that of the connected Receiver.
- Administrator can use all OSD functions on Receiver using keyboard only.
- Support for CloudRDP Server (Demo).

### Fixes:

- Fixed issues with resolution changing/DVI hot-plugging leading to dropped connections.
- Fixed issue with Microphone on USB headsets.
- Some OSD messages have been cleaned up.
- Fixed issue with redirecting USB devices via keyboards with a built-in hub.
- Resolved issue where “wallpaper” did not appear behind OSD on some monitors.
- Resolved issue where very occasionally mouse cursor failed to appear when connecting to a Windows 8.1 VM.
- Fixed issue where it was not possible to enable/disable remote audio when connecting via MS Connection broker.
- Fixed bug on Receiver to Transmitter connection at 1920x1200 resolutions had a slight blur. Fixed a bug in “discovery” to avoid occasional loss of DNS settings for Receiver or Transmitter in Manager (settings get displayed as \*).
- Fixed USB issue on Transmitter that very occasionally caused a “slow mouse” response.
- Fixed OSD Resolution Changing not working.
- Fixed a problem where disconnection from Windows 8.1 VM is slow when USB Redirection is enabled.
- Toggling between Audio and USB Redirection on subsequent connections when using the same USB headset will fail.
- Various stability issues.
- Can’t restore a managed Transmitter from an unmanaged Receiver.
- Fixed video Jitter issues when connecting to physical Win8.1 PC with dual head and intensive video.
- Intermittent problem where HID USB does not enumerate on target.
- Improved video locking reliability
- Fixed issue where screen stays black when reconnecting after a successful connection.
- Microphone doesn’t work on USB headset when connecting to a VM.
- Fixed issues when a connection can’t be stopped immediately when there are network problems.

## Release 3.5.1

### New Features and Enhancements:

- Managed devices (Receivers and Transmitters) can be restored without requiring the Manager.
- Hotkey settings are pushed out from the Manager to managed Receivers.
- Column sort now available on the managed devices window on the Manager.
- When removing Transmitters from the Manager's configuration, the Administrator has the option to remove or keep the equivalent Transmitter connection on the connections list.
- When changing a managed Transmitters network setting via the Manager, the administrator has the option to update the equivalent Transmitter connection in the connections list with the updated network settings.

### Fixes:

- Progress bars within the OSD have been tidied up.
- OSD text has been tidied up.
- Receiver and Manager Network settings can be configured even if the network cable is not present or the Ethernet line is not active.
- OSD Background image not loading for some particular monitors.
- Changes made to resolve mouse pointer issues when connected to a Virtual Windows 8 or 8.1 targets.

## Release 3.5.0

### New Features and Enhancements:

- Performance Improvements made to RDP Legacy mode.
- A new Connector Broker/Web Access feature has been added to the System tab. Details on how this will operate will be contained on a separate document for this release.
- On discovery, a new state has been added; "Orphaned". This is a device that is in a managed state but has been removed from the Manager database. The user can now re-manage the device again.
- On discovery a new state has been added; "Managed Other". Running discovery will display devices that are managed by another Manager.
- Discovery will now list devices that are currently managed. They will be listed as "Managed".
- "Configured" state is removed from discovery. This makes the managing devices more transparent.
- Manager can be upgraded using RX\_DTX.clu file and no longer needs an MD\_DTX.clu file. An MD\_DTX.clu file will be included with this release to cover any management units older than 3.4.1.

### Fixes:

- Issue discovering Transmitters with old Firmware now resolved. (DTX1000-R & DTX1002-R).
- Change static IP without an active network port (DTX1000-R & DTX1002-R).
- Fixed default network address settings if the manager is restored.
- Changed "Model" column in managed devices to "Device".
- Upgrade report pop-up window after upgrading a unit now coincides with OSD Unlock.
- Imported Manager Database managed device audit bug fixed.
- Change Manager IP without an active Network Port is allowed.
- Unmanaged> Changing a Transmitter IP address via a Receiver no longer requires Transmitter reboot (DTX1000-R/T & DTX1002-R/T).
- Network settings displayed correctly if the unit is restored (DTX1000-R/T & DTX1002-R/T).
- Hidden mouse pointer at login or after login with Windows 8.1 fixed.

## Release 3.4.1

### New Features and Enhancements:

- DTX1000-R (Unmanaged): Can now manage dual head or single head Transmitters.
- Introduction of combination DTX1000 and DTX1002 Receiver and Transmitter upgrade files.
- Faster device restore times via Manager.
- Enhancements made to Manager Discovery feature.

### Fixes:

- Help button at login now displaying BlackBox web address.
- Restoring the manager to factory defaults also now clears the previous DNS settings.
- Manager once restored has a default IP of 192.168.1.23.
- Configuring a managed device IP address via the manager also updates the device broadcast address correctly.
- LED flashing for managed DTX 1000-R/T during upgrades.