

Release Notes

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Version History

Version 4.5.5 (3223616) 5/21

Equipment

- ULTRIX-FR1, ULTRIX-NS-FR1
- ULTRIX-FR2, ULTRIX-NS-FR2
- ULTRIX-FR5
 - UCCI Upgrade Required? YES NO
- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

Features & Enhancements

- Maintenance Updates for
 - Large Distributed System Enhancements
 - Flex slot corrected routing
 - IP-IO MicroBlaze re-mapping (Ultrix Acuity support)
 - NMOS enumerations
 - Ember + Fixes
 - Clean Quiet (Line Sync) updates

Bug Fixes

- Bug 12285 "Stuck" output on flex slot
- Bug 72370 Ultrix-IP input switching to Ultrix-Acuity
- Bug 69885 CR/LF use in SDP files.
- Bug 72277 Improved handling for startup in slower-frame rate reference signals
- Bug 72292 Ultrix-IP - Proper bandwidth calculation for redundant streams
- Other Misc Improvements:
 - GVG qi queries for destination over 4096
 - Improved Ultrix-IP compatibility with Evertz Magnum control
 - Improved Avahi advertisement compatibility
 - Improved Probel & GVG protocol option configuration
 - Improved Line Sync (Clean-Quiet) switch behavior

Known Issues

- Databases created under Ultrix 4.2.x fail to import into the Offline Editor. To generate a portable database for use in the Offline Editor users must first upgrade the Ultrix system to 4.4.0. Once upgraded the user can export the database to generate a new .uda file and then import into the Offline Editor.

Application Notes

- Acuity in Ultrix – Ultrix-FR5 frames shipped prior to October 2020 are recommended to have a factory hardware upgrade to facilitate Acuity blades.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on SW versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.x.x.
- Ultrix-FR5 Upgrades:
 - Users upgrading from version prior to 4.1.0 may be prompted by Dashboard to reboot up to 6-8 times to process all updates. This is normal and expected behavior for this update.*
 - ***Caution:** When powering cycling the frame, users must wait approx. 30 seconds before re-powering to allow the frame time to completely power down and reset.
- Ultrix-UCCI Card Support*
 - Users with older UCCI Controls Cards (cards loaded with a version prior to 4.1.0) must upgrade the UCCI card first before upgrading the Ultrix-FR5 frame.
 - See *Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note* for instructions.
 - Dual/Redundant UCCI Cards must be upgraded one at a time. Only one UCCI card should be connected to the frame during the upgrade.
 - FR-5 units at version 4.1.0 and newer, dual UCCI cards now use single IP address.

Version 4.5.2 (aa6d63f6) 4/21

Equipment

- ULTRIX-FR1, ULTRIX-NS-FR1
- ULTRIX-FR2, ULTRIX-NS-FR2
- ULTRIX-FR5 & UCCI
 - UCCI Upgrade Required? YES NO
- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

Features & Enhancements

- Large system performance updates and bug fixes
- Improved logging for ethernet troubleshooting

Bug Fixes

- [Bug 69438](#) - Nvision UDP not working as expected - Switches from GV not updating on Matrix panels
- [Bug 69669](#) – Loss of Signal state black not working as expected if frame sync is enabled
- [Bug 69722](#) - Audio breakaway not working on Follow Destination after reboot
- [Bug 69829](#) –Ultritouch panel menu buttons update. Allows more/less buttons in menu
- [Bug 70457](#) – Ultrix IP - ingress video lockup after switching senders from progressive to interlaced formats through NMOS
- [Bug 71158](#) - Ultriscape - When importing a new layout, the list of layouts to export goes blank
- [Bug 71296](#) - FR-5 showing INT CONN ERROR and alarm
- [Bug 71325](#) - Ultrixrouter memory leak leads to abnormal termination
- [Bug 71787](#) - UltrixIP - video lockup after applying big salvos through tie-lines
- [Bug 71853](#) - UltrixIP - rolling green horizontal bars
- [Bug 71885](#) - Cannot make MV layout switches with soft panels on BCS- take errors when making layout changes
- [Bug 71974](#) - SFP card in Ultrix frames not work under BCS control

Known Issues

- Databases created under Ultrix 4.2.x fail to import into the Offline Editor. To generate a portable database for use in the Offline Editor users must first upgrade the Ultrix system to 4.4.0. Once upgraded the user can export the database to generate a new .uda file and then import into the Offline Editor.

Application Notes

- Acuity in Ultrix – Ultrix-FR5 frames shipped prior to October 2020 are recommended to have a factory hardware upgrade to facilitate Acuity blades.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on SW versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.x.x.
- Ultrix-FR5 Upgrades:
 - Users upgrading from version prior to 4.1.0 may be prompted by Dashboard to reboot up to 6-8 times to process all updates. This is normal and expected behavior for this update.*
 - ***Caution:** When powering cycling the frame, users must wait approx. 30 seconds before re-powering to allow the frame time to completely power down and reset.
- Ultrix-UCCI Card Support*
 - Users with older UCCI Controls Cards (cards loaded with a version prior to 4.1.0) must upgrade the UCCI card first before upgrading the Ultrix-FR5 frame.
 - See *Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note* for instructions.
 - Dual/Redundant UCCI Cards must be upgraded one at a time. Only one UCCI card should be connected to the frame during the upgrade.
 - FR-5 units at version 4.1.0 and newer, dual UCCI cards now use single IP address.

Version 4.5.1 (6cbd28ad) 3/21

Equipment

- ULTRIX-FR5 with Acuity Only

Features & Enhancements

- Version 4.5.0 with updated tuning values to support Endor Rev 6 hardware.

Bug Fixes

- N/A

Known Issues

- Databases created under Ultrix 4.2.x fails to import into the Offline Editor. To generate a portable database for use in the Offline Editor users must first upgrade the Ultrix system to 4.4.0. Once upgraded the user can export the database to generate a new .uda file and then import into the Offline Editor.

Application Notes

- Version 4.5.1 for controlled distribution only and not targeted for general release. Version 4.5.1 distribution to be limited to Ultrix FR5 systems with Ultrix Acuity only.
- Acuity in Ultrix – Ultrix-FR5 frames shipped prior to October 2020 are recommended to have a factory hardware upgrade to facilitate Acuity blades.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on SW versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.x.x.
- Ultrix-FR5 Upgrades:
 - Users upgrading from version prior to 4.1.0 may be prompted by Dashboard to reboot up to 6-8 times to process all updates. This is normal and expected behavior for this update.*
 - ***Caution:** When powering cycling the frame, users must wait approx. 30 seconds before re-powering to allow the frame time to completely power down and reset.
- Ultrix-UCCI Card Support*
 - Users with older UCCI Controls Cards (cards loaded with a version prior to 4.1.0) must upgrade the UCCI card first before upgrading the Ultrix-FR5 frame.
 - See *Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note* for instructions.
 - Dual/Redundant UCCI Cards must be upgraded one at a time. Only one UCCI card should be connected to the frame during the upgrade.
 - FR-5 units at version 4.1.0 and newer, dual UCCI cards now use single IP address.

Version 4.5.0 (3e2f7572) 3/21

Equipment

- ULTRIX-FR1, ULTRIX-NS-FR1
- ULTRIX-FR2, ULTRIX-NS-FR2
- ULTRIX-FR5 & UCCI
 - UCCI Upgrade Required? YES NO
- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

Features & Enhancements

- Acuity in Ultrix
- ULTRIMIX-MXR (Ultrix Audio Mixer, EQ, & Compression)
- Low Latency Mode (Ultrix IP)
- ULTRICORE-EMBER+ Logical/Physical
- Support of Rosstalk crosspoint commands

Bug Fixes

- [Bug 71541](#) - Multi level Third Party Matrices (GVG) return single level
- [Bug 71449](#) - Customer issues with Ultricore SNMP MIB
- [Bug 71152](#) - Database builder creating 16 audio Ch. expect 8 Ch.
- [Bug 71103](#) - Loss of MV head UMD update
- [Bug 71084](#) - Cannot get any audio IP Streams passing on any system in 4.4.0 release
- [Bug 71076](#) - Cannot make routes on Flex slot with BCS
- [Bug 71028](#) - TSL sending blank data after reboot
- [Bug 70964](#) - Cannot remove license on Ultrix - Dashboard always shows count of 1
- [Bug 70892](#) - Unable to import UltricoreOE proxied database into secondary Ultrix.
- [Bug 70844](#) - Offline and numeric frame IDs visible after database import
- [Bug 70126](#) - Group Category Editor - name sorting does not work.
- [Bug 69280](#) - Ultritouch MV panel not showing thumbnails.

Known Issues

- Databases created under Ultrix 4.2.x fail to import into the Offline Editor. To generate a portable database for use in the Offline Editor users must first upgrade the Ultrix system to 4.4.0. Once upgraded the user can export the database to generate a new .uda file and then import into the Offline Editor.

Application Notes

- Version 4.5.0 optimized for small non-distributed systems. Version 4.5.1 will address further big distributed systems fixes and enhancements.
- Acuity in Ultrix – Ultrix-FR5 frames shipped prior to October 2020 are recommended to have a factory hardware upgrade to facilitate Acuity blades.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on SW versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.x.x.
- Ultrix-FR5 Upgrades:
 - Users upgrading from version prior to 4.1.0 may be prompted by Dashboard to reboot up to 6-8 times to process all updates. This is normal and expected behavior for this update.*
 - ***Caution:** When powering cycling the frame, users must wait approx. 30 seconds before re-powering to allow the frame time to completely power down and reset.
- Ultrix-UCCI Card Support*
 - Users with older UCCI Controls Cards (cards loaded with a version prior to 4.1.0) must upgrade the UCCI card first before upgrading the Ultrix-FR5 frame.
 - See *Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note* for instructions.
 - Dual/Redundant UCCI Cards must be upgraded one at a time. Only one UCCI card should be connected to the frame during the upgrade.
 - FR-5 units at version 4.1.0 and newer, dual UCCI cards now use single IP address.

Version 4.2.5 (cbe5e81) 11/20

Equipment

- ULTRIX-NS-FR1, ULTRIX-NS-FR1
- ULTRIX-NS-FR2, ULTRIX-NS-FR2
- ULTRIX-FR5 & UCCI
 - UCCI Upgrade Required? YES NO
- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

Features & Enhancements

- Ultrix users can now reboot the frame using front panel controls.
- General improvements and bug fixes to support large distributed system performance.

Bug Fixes

- [Bug 70314](#) - Layout editor - When creating a PIP with UMD set to Static, issues arise of static text is removed.
- [Bug 70698](#) – FR1/FR2 only. Cannot create Video/Audio sender on 2RU-ns Ultrix IP card from Dashboard.

Known Issues

- Offline Editor – 4.2.5 does not support downloading a database from one Ultrix frame into the Offline Editor then uploading the same database to a different Ultrix frame.

Application Notes

- Systems must be running on SW version 3.42 or higher to upgrade to version 4.1.0 (or 4.1.1). Systems operating on SW versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.1.0 (or 4.1.1).
- ULTRIX-FR5 Upgrades:
 - UCCI Controls Cards must be upgraded before upgrading the Ultrix-FR5 frame. See *Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note* for instructions.
 - During the version 4.1.0 (or 4.1.1) upgrade process, users may be prompted by Dashboard to reboot up to 6-8 times. This is normal and expected behavior for this update.*
 - ***Caution:** When powering cycling the frame, users must wait approx. 30 seconds before re-powering to allow the frame time to completely power down and reset.

- UCCI Card Support*
 - Dual UCCI Cards must be upgraded one at a time. Only one UCCI card should be connected to the frame during the upgrade. See FR5 Dual Controller Migration Application Note for instructions.
 - Note: FR-5 units with dual UCCIs will use single IP address
 - UCCI presence/status is reported in the frame UI.

Version 4.2.1 (098ef2c)

Equipment

- ULTRIX-FR1, ULTRIX-NS-FR1
- ULTRIX-FR2, ULTRIX-NS-FR2
- ULTRIX-FR5 & UCCI
 - UCCI Upgrade Required? YES NO
- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

Features

- Bug fixes and improvements to the customer experience

Bug Fixes

- [Bug 69399](#) -- UHD from non-Ross devices/SDP redundancy improvements. When creating redundant UHD session, both streams are added to the same eth interface.
- [Bug 69358](#) -- UHD from non-Ross devices/SDP redundancy improvements. Video receiver not playing out UHD video from Xpression.
- [Bug 69450](#) -- Ultrix-IP - Remove and recreate when sender not defined.
- [Bug 69637](#) -- Ultrix-IP - Fix issue with Marvell gearbox driver
- [Bug 69702](#) -- Extend allowed Ultrix-IP range
- [Bug 69885](#) -- Fix to SDP parsing of group info
- [Bug 69746](#) -- Strip unprintable chars from UMD Labels
- [Bug 52883](#) -- Changing fan speeds on the HW Configuration Dashboard page indicates failed.
- [Bug 69736](#) -- Trap and log malformed OGP-JSON causes unhandled exception in node.js
- [Bug 69254](#) -- Require frame-frame database import through Offline Editor.
- [Bug 69455](#) -- Ultricore-BCS - System utilization at 97%
- [Bug 69796](#) -- Add missing JDK installer component for TLX feature.
- [Bug 68470](#) -- Fix for reboot vs power cycle issue
- [Bug 69810](#) -- Fix for Frame Sync / audio off by 1 or 2 frames

Application Notes

- Systems must be running on SW version 3.42 or higher to upgrade to version 4.1.0 (or 4.1.1). Systems operating on SW versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.1.0 (or 4.1.1).
- ULTRIX-FR5 Upgrades:
 - UCCI Controls Cards must be upgraded before upgrading the Ultrix-FR5 frame. See *Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note* for instructions.

- During the version 4.1.0 (or 4.1.1) upgrade process, users may be prompted by Dashboard to reboot up to 6-8 times. This is normal and expected behavior for this update.*
- ***Caution:** When powering cycling the frame, users must wait approx. 30 seconds before re-powering to allow the frame time to completely power down and reset.
- UCCI Card Support*
 - Dual UCCI Cards must be upgraded one at a time. Only one UCCI card should be connected to the frame during the upgrade. See FR5 Dual Controller Migration Application Note for instructions.
 - Note: FR-5 units with dual UCCIs will use single IP address
 - UCCI presence/status is reported in the frame UI.

Version 4.2.0 (af2f977)

Equipment

- ULTRIX-FR1, ULTRIX-NS-FR1
- ULTRIX-FR2, ULTRIX-NS-FR2
- ULTRIX-FR5 & UCCI
 - UCCI Upgrade Required? YES NO
- ULTRICORE
- ULTRICORE-BCS

Features

- Release of the Ultrix-SFP-IO module support in Ultrix routers
- Release of Ultrisync-UHD 12G frame sync license for Ultrix I/O modules
- Release of the Ultricore-TLX Tielines software license for Ultricore-BCS

Enhancements

- Includes menu option to request logs be generated.
- Logs now saved on reboot.
- Additional logging of network port states

Bug Fixes

- [Bug 69280](#) Ultritouch MV softpanel fails to show MV head and thumbnail selection.
- [Bug 61105](#) Fiber SFPs listed HDBNC as connector in status.
- [Bug 62203](#) Audio bypass on SFP input does not work.
- [Bug 62572](#) Inconsistent Ultriscape font size
- [Bug 65179](#) Audio delay stops updating in Dashboard GUI
- [Bug 66599](#) - Sending wrong 352 packet in 2160p 29.97
- [Bug 68025](#) Ultricore-BCS - NMOS not working as expected (Video and Audio streams not sending)
- [Bug 68081](#) 1RU New Style Import database not working
- [Bug 68202](#) Ultrix IP - Gateway configuration not working
- [Bug 68308](#) Ultriscape - Dragging items (audio bars) slowly in layout editor causes mouse pointer to get out of sync with audio bars
- [Bug 68554](#) FR-5 Upgrade failures - Increases drive strength of CPLD communication lines to improve upgrade experience
- [Bug 68555](#) Label change notifications not sent to third party module
- [Bug 68556](#) Ultriscape - Layout/Head Selection PIP Source is showing incorrect source
- [Bug 68662](#) Intermittent ENET loss (FR-5)
- [Bug 68809](#) Ultriscape - Changing SRC in Matrix panel for PIPs affects a different PIP
- [Bug 69280](#) - Ultritouch MV panel not showing thumbnails and source/destination level with unassigned I/O port is inaccessible.
- [Bug 69387](#) - Group/Category/Pushbutton soft panels failed to display salvo list UI

Known Issues

- Systems with Ultrix IP cards require power cycle after upgrade
- Ultriscape Audio Metering
 - Ultriscape “Logical Audio Meter mode” must be used to enable pip audio meters to the monitor audio levels of sources arriving via IP Video and Audio streams
 - When an Ultriscape multiviewer pip set to follow a destination that is not local to the Ultrix frame on which the multiviewer head is hosted (i.e. the followed output is on a different frame), pip audio meter levels for the followed output are not available.

Application Notes

- Systems running SW version 3.42 or higher can upgrade to version 4.X.X. Systems operating on SW versions older than 3.42 must first upgrade to 3.42 before upgrading to 4.X.X.
- ULTRIX-FR5 Upgrades:
 - **IMPORTANT:** UCCI Control Cards running a SW version less than 4.1.0 must be upgraded **before upgrading the Ultrix-FR5 frame.**
See *Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note* for instructions.
 - During upgrades from version 3.42 to version 4.X.X users may be prompted by Dashboard to reboot 6-8 times. This is normal and expected behavior for this update.*
 - ***Caution:** When power cycling the frame, allow time for the frame to completely power down (approx. 30 seconds) before re-powering. This will ensure the system has completely reset.
- Dual UCCI Card Support*
 - Dual UCCI Cards must be upgraded one at a time. Only one UCCI card should be connected to the frame during the upgrade.
 - See FR5 Dual Controller Migration Application Note for instructions.

Version 4.1.0 (5883)

Ross Connectivity group is transitioning to a Semantic version naming scheme with this release. The version number will indicate Major, Minor and Patch in the numbering scheme.

Equipment

- ULTRIX-FR1, ULTRIX-NS-FR1
- ULTRIX-FR2, ULTRIX-NS-FR2
- ULTRIX-FR5 & UCCI (See app notes for proper upgrade procedure)
 - UCCI Upgrade Required? YES NO
- ULTRICORE
- ULTRICORE-BCS

Features

- UCCI and UCCI redundancy support in the ULTRIX-FR5
- ULTRICORE-BCS redundancy
- Ultrix IP-IO support in ULTRIX-NS-FR1 and ULTRIX-NS-FR2

Bug Fixes

- Version 4v10 is now universal for both Ultrix Legacy and New Style frames.
- ULTRIX-FR5 Flex slot support
- Expanded protocol connection options

Known Issues

- Current Ultricore-OE build is broken

Application Notes

- Systems must be running on SW version 3.42 or higher to upgrade to version 4.1.0. Systems operating on SW versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.1.0.
- ULTRIX-FR5 Upgrades:
 - UCCI Controls Cards must be upgraded before upgrading the Ultrix-FR5 frame. See *Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note* for instructions.
 - During the version 4.10 upgrade process, users may be prompted by Dashboard to reboot up to 6-8 times. This is normal and expected behavior for this update.*
 - ***Caution:** When powering cycling the frame, users must wait approx. 60 seconds before re-powering to allow the frame time to completely power down and reset.

- UCCI Card Support*
 - Dual UCCI Cards must be upgraded one at a time. Only one UCCI card should be connected to the frame during the upgrade. See FR5 Dual Controller Migration Application Note for instructions.
 - Note: FR-5 units with dual UCCIs will use single IP address
 - UCCI presence/status is reported in the frame UI.
- ULTRICORE-BCS: Redundant Controller Support
 - Two BCS units can be “paired” to provide redundancy support
 - Paired units are assigned separate shared “system” IP address which is used for client control
 - Redundant units synchronize via private network link over ENET2
 - Each BCS unit remains visible to Dashboard at its IP address for configuration and status monitoring

Version 4v06 (5656)

Features

- First release for Ultrix New Style firmware. New Style replaces the Legacy Ultrix FR1 and FR2 routers.
- Supports Ultrix HDB-IO module in the New Style frame.
- Supports New Style fan module and increased cooling capacity.
- Provides an upgrade path for future integration of Ultrix I/O formats in FR1 and FR-2 Frames.

Bug Fixes

- Updated tuning values to improve test margins through MFG test .

Application Notes

- 4v05 is not compatible for legacy FR1 and FR2 routers.
- 4v05 supports Ultrix HDB-IO only.

Version 4v05 (5473)

Features

- First release for Ultrix New Style firmware. New Style replaces the Legacy Ultrix FR1 and FR2 routers.
- Supports Ultrix HDB-IO module in the New Style frame.
- Supports New Style fan module and increased cooling capacity.
- Provides an upgrade path for future integration of Ultrix I/O formats in FR1 and FR-2 Frames.

Bug Fixes

- First Release.

Application Notes

- 4v05 is not compatible for legacy FR1 and FR2 routers.
- 4v05 supports Ultrix HDB-IO only.