

GENERAL RELEASE NOTES

Welcome to the Ultrix, Ultricore-CC, and Ultricore-BCS Release Notes. Please read this document to find important

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information on areas that may not be covered in the user documentation.

VERSION HISTORY

VERSION 4.8.6 (36F1FD4D) 02/03/23

EQUIPMENT

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

FEATURES & ENHANCEMENTS

- Maintenance Release and bug fixes.

BUG FIXES

- UR-863: NTP connection update needs reboot for NS frames
- UR-1047 Inconsistent behavior with third party matrix control after BCS failovers
- UR-2199: Slow Ultrix behavior with routed Tally & Salvos
- UR-3040: SW-P-08 command byte 21 returning unexpected results
- UR-3045: Unable to apply ports with custom port labels into database tables
- UR-3052: CEA-708 captions not rendering consistently
- UR-3129: Ultrisync-UHD port selection limiting to 6 licenses
- UR-3152: BCS redundancy pop up typo
- UR-3171: DB builder creates extra breakaway channels
- UR-3231: Listen for Acuity connections internal only
- UR-3258: Incorrect addressing of MV head license table

APPLICATION NOTES

- Known issue upgrading fully stuffed FR5 frames from version 4.8.3. On first attempt users may receive an "out of memory" message. If this occurs, repeat the upgrade to clear the error.
- Starting in V4.8.X, IO modules (HDX-IO and IP-IO) are no longer included within the frame upgrade files. The frame and IO modules must be upgraded independent of each other.
- To upgrade from 4.1.x or later to the current version:
 - Upgrade Frame -- **DO NOT Reboot** when prompted by DashBoard after frame update
 - Upgrade all cards (including switcher cards) -- **DO NOT Reboot** when Prompted by DashBoard in between card updates
 - After both FRAME and ALL CARDS have been successfully updated, Reboot frame

- Power cycle the frame after all loads are complete.
- SWR-SDPE blades require a FW upgrade to v7.0 Carbonite or v11.1 Acuity to be compatible with Ultrix version 4.8.x
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- To Upgrade Ultrix FR5 from versions prior to 4.1.0:
 - Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.1.x.
 - Systems operating on versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.1.x.
 - DashBoard may prompt users to reboot multiple times (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. 10-15 seconds before repowering to allow the frame time to completely power down and reset.
- Ultrix-UCCI Card Support* See Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note for instructions. UCCI Control Cards Version 4.1.0 or earlier must **upgrade the UCCI card first** before upgrading the frame.

VERSION 4.8.5 (8F2CC79F) 1/04/23

EQUIPMENT

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

FEATURES & ENHANCEMENTS

- Improved Ultricore-BCS Redundancy support
- Maintenance Release and bug fixes.

BUG FIXES

- **UR-1317:** Rename "Clear" button name and update position
- **UR-2215:** Frame backend parameter change notification is partially handled (params.frame)
- **UR-2440:** Sorting of destinations within Tieline Runtime tab
- **UR-2653:** Destination ports used as Tielines not showing as used in Matrix Output list
- **UR-2667:** Routecontroller seg faults on boot when fetching protect status
- **UR-2745:** BCS connections menu not displaying newest incoming connection
- **UR-2910:** UI IP senders status does not show the signal format when we create the IP senders with signal format in blank
- **UR-2916:** Fix for User Profiles Flag Persistence
- **UR-2924:** [Ultrix IP] - Enable or disable "redundant" mode the card stays in "no response"
- **UR-2945:** Refreshing IO ports defaults custom port labels
- **UR-2967:** Closed captions incorrectly decoding field 2 data
- **UR-2977:** Source/destination level without physical assignment is shown with invalid channel
- **UR-3009:** Ultrisync/SRC assignments change when upgrading from 4.7.9 to 4.8.x
- **UR-3010:** Ultritouch-MV panel doesn't allow the user to select active heads
- **UR-3011:** TSL UMD v5 router labels not sending with tally IDs above 128
- **UR-3013:** IP senders with less than 16 channels have audio distortion
- **UR-3019:** Sender SDP reporting TTL 0 while stream is configured as 64

APPLICATION NOTES

- Known issue upgrading fully stuffed FR5 frames from version 4.8.3. On first attempt users may receive an "out of memory" message. If this occurs, repeat the upgrade to clear the error.
- Starting in V4.8.X, IO modules (HDX-IO and IP-IO) are no longer included within the frame upgrade files. The frame and IO modules must be upgraded independent of each other.

- To upgrade:
 - Upgrade Frame -- **DO NOT Reboot** when prompted by DashBoard after frame update
 - Upgrade all cards (including switcher cards) -- **DO NOT Reboot** when Prompted by DashBoard in between card updates
 - After both FRAME and ALL CARDS have been successfully updated, Reboot frame
 - Power cycle the frame after all loads are complete.
- SWR-SDPE blades require a FW upgrade to v7.0 Carbonite or v11.1 Acuity to be compatible with Ultrix version 4.8.x
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.x.x.
- Ultrix-FR5 Upgrades from version prior to 4.1.0:
 - DashBoard may prompt users to reboot multiple times (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. 10-15 seconds before repowering to allow the frame time to completely power down and reset.
- Ultrix-UCCI Card Support* See Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note for instructions.

VERSION 4.8.4 (61DE88BB) 12/02/22

EQUIPMENT

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

FEATURES & ENHANCEMENTS

- Maintenance Release and bug fixes.

BUG FIXES

- **UR-2386:** Fix HDCTRL/RRTI errors
- **UR-2411:** UltrixRouter runs out of memory
- **UR-2501:** Invalid port label causing panic when applied in sources and destinations
- **UR-2510:** Ultricore-BCS repeatedly logging 'RDS Service Exit Status
- **UR-2511:** Ultricore-BCS - Frame type not represented in UI correctly
- **UR-2615:** Ultricore-BCS – routes changing on BCS reboot
- **UR-2573:** User able to open and use Tieline Builder and Tieline Runtime on BCS without TLX enabled
- **UR-2687:** Error restoring sender/receiver audio channels after reboot
- **UR-2679:** MADi SFP not working after Ultrix reboot if using HDX-IO
- **UR-2700:** Changing MV head format causes panic
- **UR-2704:** Caprica SW cannot connect to Ultrix 4.8, adds logs to identify OGP message format mismatch
- **UR-2735:** Add rippaview error to archived logs
- **UR-2742:** When toggling Ultrix-IP redundancy, popup menu to remove ports not removing ports
- **UR-2763:** [Ultrix-IP] When mixing static & DHCP interfaces, port config does not persist on reboot
- **UR-2781:** UltriScape background image cannot upload/delete in Dashboard version 9.5
- **UR-2783:** On boot, NS-FR2 frame fans 4-6 detected at 50% speed instead of 65%
- **UR-2880:** User can enter invalid IP addresses when creating senders/receivers

APPLICATION NOTES

- Starting in V4.8.X, IO modules (HDX-IO and IP-IO) are no longer included within the frame upgrade files. The frame and IO modules must be upgraded independent of each other.
- To upgrade:
 - Upgrade Frame -- **DO NOT Reboot** when prompted by DashBoard after frame update
 - Upgrade all cards (including switcher cards) -- **DO NOT Reboot** when Prompted by DashBoard in between card updates
 - After both FRAME and ALL CARDS have been successfully updated, Reboot frame
 - Power cycle the frame after all loads are complete.
- SWR-SDPE blades require a FW upgrade to v7.0 Carbonite or v11.1 Acuity to be compatible with Ultrix version 4.8.x
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.x.x.
- Ultrix-FR5 Upgrades from version prior to 4.1.0:
 - DashBoard may prompt users to reboot multiple times (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. 10-15 seconds before repowering to allow the frame time to completely power down and reset.
- Ultrix-UCCI Card Support* See Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note for instructions. UCCI Control Cards Version 4.1.0 or earlier must **upgrade the UCCI card first** before upgrading the frame.

VERSION 4.8.3 (B6CF8977) 10/31/22

EQUIPMENT

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

FEATURES & ENHANCEMENTS

- Maintenance Release and bug fixes.

BUG FIXES

- **UR-285:** Apply overlap error check in "Save to Local" Operation in Layout Editor
- **UR-1461:** Fixed Follow Dest in PIP has no audio when Ultrix disabled
- **UR-2046:** Fix Take Error on routing audio ch to pips
- **UR-2071:** Opened pages fail to access OGP subscribed parameters on frame reboot
- **UR-2249:** Audio Mixer partition data not persisting after system reboot
- **UR-2251:** Enable/disable Ultricool control server
- **UR-2288:** Sources/Destinations menu, port drop-down blank after manually entering value in search field
- **UR-2305:** Add automatic default name for Ultricore credentials and Ultricore profiles
- **UR-2362:** User should not be able to select Ultritouch MV style panel on BCS
- **UR-2379:** Ultrix-IP fix sender audio noise
- **UR-2381:** Remove FS and slot reference functions from Ultrix-IP, SWR-SDPE, and HDX Modules
- **UR-2383:** Third-party interface generating core dump with Ember+
- **UR-2389:** Head selection not routing audio to PiPs when source has MAD1 audio
- **UR-2390:** Add confirmation dialog before applying network changes
- **UR-2435:** Ultrix-IP streams RTP payload on sender side are being updated to other values on board reboot
- **UR-2490:** RDS avoid double restart when assuming the master role
- **UR-2502:** Group Categories on RCP not showing all sources / destinations
- **UR-2508:** Unlimited count Ultrix-MXR license causes system to not be able to open MXR soft panel
- **UR-2519:** Ultrix-IP SW is requesting a frame drop when the buffer has more than 1 field of packets in interlaced video formats
- **UR-2523:** Audio Mixer - fader control slow responsiveness from OGP interface
- **UR-2525:** CEA-608 upper-case U showing as lower-case u in MV
- **UR-2542:** Audit.log not logging on BCS or standalone frames
- **UR-2564:** Renaming Audio Mixer channel strip titles causes rippaview panic

- **UR-2569:** Group category window page-bar width resize not staying fixed using border layout center-anchor
- **UR-2583:** Allow larger numbers of sources/destinations for single level database
- **UR-2588:** Better handling of switching invalid layouts, and Take Error details
- **UR-2591:** Ultriscape-CA not displaying captions
- **UR-2595:** Changing source names breaks audio routing
- **UR-2596:** Custom port label not persistent in OE
- **UR-2605:** Unable to assign Ultrisync-UHD license to SFP-IO input
- **UR-2608:** Invalid selection display in Audio Mixer Edit Title option
- **UR-2609:** Add delay to refreshIO so that multiple UltriSRC selections can be made
- **UR-2613:** MADi output audio dropping on HDX-IO when routed video signal is non-integer format
- **UR-2639:** Add Apply button to the Device Identification section
- **UR-2640:** Fixed frame column being cut off
- **UR-2643:** Ultricore-IP - ip given by Avahi is invalid (ipv6) retry discovery for ipv4
- **UR-2664:** Ultrix-IP no audio when receiver is redundant
- **UR-2692:** Salvo crosspoints are filtered out when parse from salvo file

APPLICATION NOTES

- Starting in V4.8.X, IO modules (HDX-IO and IP-IO) are no longer included within the frame upgrade files. The frame and IO modules must be upgraded independent of each other.
- To upgrade:
 - Upgrade Frame -- **DO NOT Reboot** when prompted by DashBoard after frame update
 - Upgrade all cards (including switcher cards) -- **DO NOT Reboot** when Prompted by DashBoard in between card updates
 - After both FRAME and ALL CARDS have been successfully updated, Reboot frame
 - Power cycle the frame after all loads are complete.
- SWR-SDPE blades require a FW upgrade to v7.0 Carbonite or v11.1 Acuity to be compatible with Ultrix version 4.8.x
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on versions prior to 3.42 must perform an interim upgrade to 3.42 before fully upgrading to 4.x.x.
- Ultrix-FR5 Upgrades from version prior to 4.1.0:
 - DashBoard may prompt users to reboot multiple times (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. 10-15 seconds before repowering to allow the frame time to completely power down and reset.
- Ultrix-UCCI Card Support* See Ultrix-FR5 UCC 4v10 Upgrade Procedure Application Note for instructions. UCCI Control Cards Version 4.1.0 or earlier must **upgrade the UCCI card first** before upgrading the frame.

VERSION 4.8.2 (5AC0F9FB) 09/30/22

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Maintenance Release and bug fixes.
- Additional Configuration options for Probel SWP-08 Protocol support
- Updated driver module to address issues with missing switcher outputs

BUG FIXES

- **UR-1047** Inconsistent Behavior with Third Party Matrix Control after BCS Failovers
- **UR-2066:** Incoming connections list shows error message when single local Dashboard connection
- **UR-2279:** Ultritouch PB panels improperly displayed when sources assigned to drawer
- **UR-2320:** Frame UI - network settings Ultricore mode value not updating for FR5 frames
- **UR-2345:** Destinations using Tielines table not showing routed source in source column
- **UR-2374:** Heartbeat module check not working
- **UR-2378:** IP audio streams update from Dashboard is sending invalid channel list
- **UR-2394** Database changes can cause loss of routing
- **UR-2401:** Category-based level selection broken in Group Category panels
- **UR-2403:** Change registry version text field to use radio buttons or dropdown
- **UR-2408:** [Ultrix-ip] RDS registration fails to process device update request
- **UR-2414:** [Ultrix-ip] Flex UI navigation does not behave on the same way as other slots
- **UR-2423:** [Ultrix-ip] DHCP when a new IP is detected with receivers enable, avmgr crashes

APPLICATION NOTES

- Starting in V4.8.X, IO modules (HDX-IO and IP-IO) are no longer included within the frame upgrade files. The frame and IO modules must be upgraded independent of each other. To upgrade:
 - Upgrade Frame -- DO NOT Reboot when prompted by DashBoard after frame update
 - Upgrade all cards (including switcher cards) -- DO NOT Reboot when Prompted by DashBoard in between card updates
 - After both FRAME and ALL CARDS have been successfully updated, Reboot frame
 - Power cycle the frame after all loads are complete.

- SWR-SDPE blades require a FW upgrade to v7.0 Carbonite or v11.1 Acuity to be compatible with Ultrix version 4.8.x
- Low Latency – A known issues (UR-2136) exist with the Low Latency feature in 4.8.x.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- When performing a recovery of the HDX, due to the inconsistent performance of USB sticks it is recommended to use a Verbatim Clip-it USB 2.0 stick for size and consistent communication.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on 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 multiple times (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. 15 seconds before repowering to allow the frame time to completely power down and reset.

- Ultrix-UCCI Card Support* Users with older UCCI Control 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.

VERSION 4.8.1 (0C8E8B9D) 08/08/22

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Maintenance Release and bug fixes.
- Support for multiple Acuity systems controlled by BCS

BUG FIXES

- **UR-1925:** Ultrix IP Tielines - Take errors with IP tielines due to routing issues
- **UR-2236:** Fix UltrixRouter crash due to incorrect initialization of FCL arrays
- **UR-2237:** Rippaview logging - reduce repeating log messages
- **UR-2297:** No reason.txt being written to /tmp when processes are halting
- **UR-2306:** UltrixRouter process crash on Rippaview restart
- **UR-2387:** Frame UI - the redundant UCCI card is not shown when installed in FR5 frame

APPLICATION NOTES

- Starting in V4.8.X, IO modules (HDX-IO and IP-IO) are no longer included within the frame upgrade files. The frame and IO modules must be upgraded independent of each other. To upgrade:
 - Upgrade Frame -- DO NOT Reboot when prompted by DashBoard after frame update
 - Upgrade all cards (including switcher cards) -- DO NOT Reboot when Prompted by DashBoard in between card updates
 - After both FRAME and ALL CARDS have been successfully updated, Reboot frame
 - Power cycle the frame after all loads are complete.
- SWR-SDPE blades require a FW upgrade to v7.0 Carbonite or v11.01a Acuity to be compatible with Ultrix version 4.8.0
- Low Latency– A known issues (UR-2136) exist with the Low Latency feature in 4.8.0.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- When performing a recovery of the HDX, due to the inconsistent performance of USB sticks it is recommended to use a Verbatim Clip-it USB 2.0 stick for size and consistent communication.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on 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 multiple times (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. 15 seconds before repowering to allow the frame time to completely power down and reset.

- Ultrix-UCCI Card Support* Users with older UCCI Control 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.

VERSION 4.8.0 (D6627ADF) 07/22/22

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- ULTRIX-HDX-IO Module Release
- MV Labels for Ross Talk Support.
- New Dashboard UI Look and Feel
- DashBoard Subscription Full Support
- Security Enhancements
- Improved Ultrix / Ultricore-IP Configuration Options
- In Band NMOS Control and Additional NMOS Configuration Options for Ultrix-IP/Ultricore-IP
- Updated UI/system management code to GO

BUG FIXES

- **UR-1877:** Ultriscape background images not importing with a space in the name
- **UR-1707** Source names not updating in head selection PiP source dropdown list
- **UR-1594:** TSL 5.0 (Wrapped) issues with ID 254
- **UR-1523** source names and making additions / subtractions to source table causing MV PIPs to lose video
- **UR-1520:** Acuity showing Ultrix router is disconnected
- **UR-1400:** BCS generating core dumps / reports for IP Matrix on every reboot
- **UR-1391:** - Ultrix credentials.json file empty
- **UR-1381:** Filter / search function search improvement (currently locked to start of string)
- **UR-1349:** Ultricore-BCS / Intermittent High Memory Utilization
- **UR-1338:** Add 12-char Support for Source/Destination Names
- **UR-1321:** Incoming TSL 5 connections not showing correct wrapping value in details column
- **UR-1282:** Database Not Loading with Custom Port Labels
- **UR-1188:** Network.conf not consistently being read properly on SD boots
- **UR-1112:** Ultrix failing to generate technical data report
- **UR-1090:** Add the Ability to reorder panels under Soft Panels tree node
- **UR-1087:** Ultrix - When creating Panels, the value of "Viewable Levels", /Destinations/Sources" dynamically change as the user changes "Assigned"

- **UR-969:** Ultritouch PB panel not firing salvos from favorite section unless salvos built into drawers
- **UR-806:** Inconsistent behavior with redundant BCS systems when BCS rebooted or failover initiated
- **UR-685** Ultrix Set to PC Time, Timezone Issues
- **UR-605:** User should not be able to create 65 level database
- **UR-529:** BCS system monitor tab information not consistent from Dashboard to BCS display
- **UR-474:** BCS units being rebooted coming back with black display
- **UR-473:** 3rd Party Protocol control of routers not working if BCS has TLX license enabled
- **UR-402:** Ultrix disconnects DashBoard Clients repeatedly - backlog exceeded
- **UR-359:** Ultritouch-PB panels lock and protect buttons sizes not changing with different sizing options
- **UR-172:** Matrix panel GOTO Active source
- **UR-171:** Add Matrix Panel Filter

APPLICATION NOTES

- Starting in V4.8.0, IO modules (HDX-IO and IP-IO) are no longer included within the frame upgrade files. The frame and IO modules must be upgraded independent of each other. To upgrade:
 - First upload the frame upgrade file and upgrade the frame.
 - Second upload upgrade files for each IO type (HDX-IO or IP-IO) and upgrade card types individually.
 - Note - older modules such as HDB-IO and SFP-IO are still included with the frame upgrade file. Separate upgrade files are not required for these modules.
 - Power cycle the frame after all loads are complete.
- SWR-SDPE blades require a FW upgrade to v7.0 Carbonite or v11.01a Acuity to be compatible with Ultrix version 4.8.0
- Low Latency– A known issues (UR-2136) exist with the Low Latency feature in 4.8.0.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on 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 multiple times (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. 15 seconds before repowering to allow the frame time to completely power down and reset.

- Ultrix-UCCI Card Support* Users with older UCCI Control 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.

VERSION 4.7.9 (3119A48B) 05/01/22

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- All Soft panels displayed for admin and default user profiles

BUG FIXES

- **UR-290:** Ultrix-IP improving ptp4l response to gmid spikes
- **UR-474:** BCS - Add systemd script to restart display 20 seconds after boot
- **UR-1002:** Ultrix frames fails to boot, unable to ping - filesystem corruption
- **UR-1319:** IP card shows wrong video when switching to input 8 with Acuity
- **UR-1331:** Ultrix-IP error while updating stream from non-red to red
- **UR-1384:** Intermittent failure routing audio with salvo recalls
- **UR-1400:** BCS generating core dump reports for ipMatrix process on every reboot
- **UR-1456:** Scan & log AUX MADI status info
- **UR-1478:** Use Dashboard table view's sort instead of UI page own sort logic
- **UR-1608:** Use detected i/o board type for setting up Flex slot UI

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.X SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on 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 multiple times (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 repowering to allow the frame time to completely power down and reset.

- Ultrix-UCCI Card Support* Users with older UCCI Control 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.

VERSION 4.7.8 (8756DD8F) 03/08/22

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Improved Salvo Support
- Improved Tieline support
- Improved IP Stream Management

BUG FIXES

- **UR-391:** BCS System Monitor page not reflecting active RCP connections
- **UR-565:** Salvos switches over 200 not recalling
- **UR-845:** Unintended MADl delay on FR5 slots 5 & 6
- **UR-916:** Unable to route to MADl destination channels above 17 through tielines
- **UR-969:** Ultritouch PB not firing salvos from favorite menu unless built into drawers
- **UR-1005:** Recalling salvos causes switcher AUX PiPs to not update
- **UR-1033:** When enabling Ultriscape UMD to utilize tally on multiple PIPs user must toggle tally on then off
- **UR-1124:** Clear button on Ultritouch-PB panel showing false clear of last selected route

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.X SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on 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 multiple times (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 repowering to allow the frame time to completely power down and reset.

- Ultrix-UCCI Card Support* Users with older UCCI Control 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.

VERSION 4.7.7 (5E472479) 01/14/22

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Maintenance update for log4j security threat
- Fan control improvements

BUG FIXES

- **UR-873:** Additional log4j library update (2.17.1)
- **UR-804:** Reduced excessive Ultricore-IP logging
- **UR-808:** Improved Ultricore-IP socket connection handling
- **UR-778:** Improved handling for large switch requests
- **UR-139** BCS-Ultrix setup, MV PIPs losing video when source name is changed

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.X SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultriscape Multiviewer head selections and PIP scalers are not included with Ultricore Profiles controls.
- Ultrix systems must be running on SW version 3.42 or higher to upgrade to version 4.x.x. Systems operating on 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 multiple times (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 repowering to allow the frame time to completely power down and reset.

- Ultrix-UCCI Card Support* Users with older UCCI Control 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.

VERSION 4.7.6 (BC4B1944) 12/16/21

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Maintenance update to address log4j security threat

BUG FIXES

- **UR-769:** Updated log4j version used by Ultrix-TLX from 2.11.2 to 2.15.0 to address **CVE-2021-44228**

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.X SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultrixscape Multiviewer head selections and PIP scalers are not included with Ultrix Profiles controls.
- 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 multiple times (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 repowering 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 4.7.5 (651F34F5) 12/08/21

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Updated the NMOS service to announce both the node and connection information on the same IP port (is04 and is05)
- Maintenance updates

BUG FIXES

- **UR-76:** Rapid route requests via third party protocols leading to incorrect route status
- **UR-431:** Sporadic FR-5 Ethernet disconnection
- **UR-459:** Rebooting Ultrix causes RCP panel to lose its status
- **UR-465:** Rebooting Ultrix with RCP connected causes RCP connection to be lost in connections tab of Ultrix
- **UR-502:** Ultrix-Acuity Source configuration page does not show 2SI (2160p) Ultrix Signal on setup page
- **UR-503:** Ultrix-IP - all senders stop working with some receivers when one sender is 720p
- **UR-529:** BCS system monitor tab information not consistent from Dashboard to BCS display
- **UR-565:** Salvo switches over 200 not working
- **UR-598:** No Video detected on Destination after 2SI-QL 3G A 2-SI 1080p 50
- **UR-644:** Probel Command 229 "Extended Single Source Name Request" not returning values over 1024

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.X SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultriscape Multiviewer head selections and PIP scalers are not included with Ultricore Profiles controls.
- 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 multiple times (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 repowering 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 4.7.3 (5809644A) 11/18/21—LIMITED RELEASE

EQUIPMENT

- ULTRIX-NS-FR1, ULTRIX-NS-FR2 WITH CARBONITE
- ULTRIX-FR5 WITH ACUITY

UCCI Upgrade Required? YES NO

FEATURES & ENHANCEMENTS

- Updates to PMA tuning values for to improve MFG test yield

BUG FIXES

- N/A

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.X SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultriscope Multiviewer head selections and PIP scalers are not included with Ultricore Profiles controls.
- 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 multiple times (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 repowering 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 4.7.2 (5E8CC3F5) 11/12/21

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Updates Ultrix-IP-IO FPGA bitfiles to resolve customer issue with video freeze.

BUG FIXES

- **UR-503:** Ultrix-IP-IO all senders stop working with certain receivers, when one sender is 720p

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.X SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultriscape Multiviewer head selections and PIP scalers are not included with Ultricore Profiles controls.
- 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 multiple times (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 repowering 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 4.7.1 (7F3026D6) 11/01/21 LIMITED RELEASE

EQUIPMENT

- ULTRIX-NS-FR1, ULTRIX-NS-FR2 with Ultrix Carbonite

FEATURES & ENHANCEMENTS

- Improved PMA tuning values for increased MFG yield on New Style Frames with Ultrix Carbonite

BUG FIXES

- N/A

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.0.X SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.
- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultriscape Multiviewer head selections and PIP scalers are not included with Ultricore Profiles controls.
- 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 multiple times (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 repowering 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 4.7.0 (BB31E6E9) 10/25/21

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Ultricore Profiles - Creates basic static user profiles and controls Ultrix/Ultricore components shown by DashBoard device tree.
- Ultricore-PRO - License enables support of customizable user profiles for Ultricore control system. User profile creation and rights configurations. The license upgrades the basic, non configurable Profiles on Ultrix chassis to full, customizable configurations. The Ultricore-PRO full version is included on Ultricore-BCS as standard.
- Adaptive Network Support - Manages video format control and changes on 2110 streams within an Ultrix/Ultricore-BCS 2110 system.
- Clip Data - MV Dreamcatcher Clip Metadata display support.
- DashBoard subscriptions - Improves system scale and end user experience with DashBoard.
- Improved PMA tuning values for increased MFG yield.

BUG FIXES

- **UR-70:** Allow setting matrix and id field in Probel SWP-08
- **UR-85:** Invalid checksum when using Probel-SW-P-08 (routing SRC ID 4 to DST ID 145)
- **UR-133:** Destination labels not updating in Destination Follow menu
- **UR-151:** Remove jQuery where not needed, update to latest for MV editor
- **UR-153:** Improve routed tally switch response time
- **UR-291:** Improve Ultrix-IP stream sorting order
- **UR-330:** Cannot connect more than 10 DashBoard clients to BCS
- **UR-358:** Ultrix-IP Extend range of allowed IP to go from 225-239
- **UR-381:** IGMP not answering group specific query
- **UR-414:** High CPU when Ultrix-Acuity installed
- **UR-424:** Ultrix Acuity startup issues

APPLICATION NOTES

- Caution SD Recovery: Known issue with version 4.7.0 SD recovery images. For SD recovery files use version 4.6.2 or earlier then upgrade to the 4.7.0 version.

- Subscriptions require Dashboard version 9.2 or higher to leverage optimization advantages.
- Ultriscope Multiviewer head selections and PIP scalers are not included with Ultricore Profiles controls.
- 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 multiple times (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 repowering 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 4.6.3 (03FE9F12) 9/22/21-- LIMITED RELEASE

EQUIPMENT

- ULTRIX-FR5

UCCI Upgrade Required? YES NO

FEATURES & ENHANCEMENTS

- Updated PMA tuning values for improved MFG test yield on Ultrix-Acuity systems with Ultrix IP-IO

BUG FIXES

- N/A

APPLICATION NOTES

- 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 multiple times (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 repowering 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 4.6.2(9E7700CB) 8/24/21

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- Updated PMA tuning values to increase MFG yield

BUG FIXES

- **UR-142** Video errors on Flex-Src->Slot2 (Dest2)
- **PF-290** Problems editing senders ip addresses on redundant mode
- **PF-294** Timing Mode issues on IP Receiver streams

APPLICATION NOTES

- 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 multiple times (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 repowering to allow the frame time to completely power down and reset.

- Ultrix-UCCI Card Support*
 - o 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 4.6.1 (70A60E1C) 8/06/21

EQUIPMENT

- ULTRIX-FR1, ULTRIX- FR2 (Legacy)
- ULTRIX-NS-FR1, ULTRIX-NS-FR2
- ULTRIX-FR5

UCCI Upgrade Required? YES NO

- ULTRICORE
- ULTRICORE-BCS
- ULTRICORE-OE

FEATURES & ENHANCEMENTS

- ULTRISCAPE-CA new license to enable closed captions for the Ultrix Multiviewer
- 2110-40 Pass through support of ancillary data in Ultrix-IP and Ultricore-IP
- Switcher tally mode
- ULTRIMIX-MXR mono channel support

BUG FIXES

- UR-57: Failed to route mixer outputs to FR5 regular outputs.
- UR-64: Deleting IP Senders/Receivers from Dashboard not working as expected
- UR-68 - Ultrix-Acuity panel is showing Ultrix router disconnect alarm
- UR-69: SNMP does not work on BCS
- UR-71: Get functions fail to retrieve status
- UR-80: No IP Receivers showing if NMOS panels are used to make connections
- UR-106: Mixer partition name is not propagated
- UR-109: Cannot set BCS to PC time
- UR-111: Ultricore-OE audio mixer's soft panel warning dialog improperly formatted
- UR-114: Panel with all drawers on one side doesn't load properly
- UR-120 - MADI audio distortion on 5RU if Src video is removed from 2,3
- PF-230: Ultrix-IP PTP "Apply" and "Cancel" buttons are inconsistent sizes
- Bug 69445: Ultrix-IP green MV output
- Bug 71129: Ultriscape updating destination names does not get reflected in head selection or in MultiViewer
- Bug 72527: Audio mixer partition drop down should be agnostic
- Bug 72582: Unable to route first assigned source to mixer strip via mixer panel
- Bug 72689 - Video Format 1080p 29.97 requires Ultrix 4.5.6
- Fix for 8K quad link and custom payload IDs
- Ember+ fix to audio receivers for UltrixIP with the 32kB buffer increase

APPLICATION NOTES

- 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 multiple times (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 repowering 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 4.5.8 (0398A757) 7/09/21 – LIMITED RELEASE

EQUIPMENT

- ULTRIX-FR5 + Acuity

UCCI Upgrade Required? YES NO

- ULTRIX-NS-FR1
- ULTRIX-NS-FR2

FEATURES & ENHANCEMENTS

- N/A

BUG FIXES

- Fix for 8K quad link and custom payload IDs
- **Bug 69445** – Ultrix-IP under BCS control displays black video on Multi Viewers

APPLICATION NOTES

- **Limited Release** This is an informal release targeted to specific customers to address specific issues identified in the bug fixes. Distribution to be controlled by CS and/or Solution's Architects. Files distributed through SharePoint only and NOT intended for general release.

VERSION 4.5.7 (C629AB28) 6/09/21 – LIMITED RELEASE

EQUIPMENT

- ULTRIX-FR5 + Acuity

UCCI Upgrade Required? YES NO

FEATURES & ENHANCEMENTS

- N/A

BUG FIXES

- **UR-68** - Ultrix-Acuity panel is showing Ultrix router disconnect alarm

APPLICATION NOTES

- **Limited Release for Ultrix FR5 with Acuity** This is an informal release targeted to specific customers to address specific issues identified in the bug fixes. Distribution to be controlled by CS and/or Solution's Architects. Files distributed through SharePoint only and NOT intended for general release.

VERSION 4.5.6 (198041E3) 6/03/21 – LIMITED RELEASE

EQUIPMENT

- ULTRIX-FR5 + Acuity

UCCI Upgrade Required? YES NO

- ULTRIX-NS-FR1 Using Ember+
- ULTRIX-NS-FR2 Using Ember+

FEATURES & ENHANCEMENTS

- N/A

BUG FIXES

- **Bug 72689** - Video Format 1080p 29.97 requires Ultrix 4.5.6
- Ember+ fix to audio receivers for UltrixIP with the 32kB buffer increase

APPLICATION NOTES

- **Limited Release for Ultrix FR5 with Acuity or Ultrix New Style FR1/FR2 with Ember+.** This is an informal release targeted to specific customers to address specifically addressed problems. Distributed through SharePoint only. NOT for general distribution. Distribution to be controlled by CS and Solution's Architects and only issued to customers seeking resolution to the issues addressed by the Limited Release.

VERSION 4.5.5 (3223616) 5/21/21

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 repowering 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 repowering 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 repowering 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 repowering 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 repowering 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 repowering 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 repowering 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.