

Version	Revision Notes
3.1910.2	MAJOR UPDATE All: Codec update for Video and USB processing Add DuetE5-WP-C/DuetE5-WP-C-BT: AVFE version read Add All: Implement Auto Internal FW sync for AVBE and AVFE Add Decoders: API Key USB.GENLOCK to decoders, default is TRUE Update E5200/DuetE5: Display of STREAM.VIDEO_PRIORITY in Web GUI
3.19.16	Add All: Allow User to control Video SubStream Params via API key ss_stream_option Update XB5E: Internal USBC-DP-HDMI FW to support 4k60 video on Apple Mac Neo Update All: USB functionality in Unicast Streaming Mode Update Encoders: STREAM.BIT_RATE default setting and display Update All: Terrapin SSH Vulnerability
3.19.15	Add Duet: Read Only DANTE.MAC_ADDRESS key to the API and display Dante MAC info in Diagnostics Network Info Page Add Duet: New default AUTO option to DANTE.VCLOCK_DETECTION and DANTE.SILENCE_DETECTION Add Duet: DANTE.VCLOCK_DETECTION and DANTE.SILENCE_DETECTION to DuetD-5 and DuetD5-WP web GUI
3.19.14	Update XB5E: Update internal USBC-DP-HDMI FW to support newer PD Version 3.2 Handshake (as seen with newer Apple MAC Neo) Update XB5E: Allow Dante Audio via USB when no DP-alt mode available on PC. Add API key DANTE.VLOCK_DETECTION=FALSE for XB5E Dante Audio Update XB5E: New API key DANTE.SILENCE_DETECTION=TRUE/FALSE defaults to TRUE, set FALSE if having issues with unwanted MUTING Update Decoder: fix queued video switching Update Decoder: fix failure to save and reboot from Configuration page when STREAM.HOST=127.0.0.1

Update ALL: disable tftp server, allow user to disable Telnet via

UNIT.TELNET_ENABLED=FALSE, allow user to disable HTTP via UNIT.HTTP_ENABLED=FALSE

Update ALL: allow disable SSH via UNIT.SSH_ENABLED=FALSE, allow disable HTTPS via

UNIT.HTTPS_ENABLED=FALSE

Note on above: User cannot disable both Telnet and SSH if so SSH will still run, user cannot disable both HTTP and HTTPS if so HTTPS will still run

Update Decoders: Queued Video Switching

3.19.13

Update QUERY.ALL and QUERY.QKR parameter mismatches

Update Duet Models: Dante muting based on active HDMI input signal

Update DuetD5-WP: Calibration timing for high-speed data bus

Update DuetD5-WP: Add internal switch filtering as for other models

Update BT Models: Allow BT audio to work when HDMI has video but no audio

3.19.12

Update DuetE5-WP-C/DuetE5-WP-C-BT video autodetection

Update DuetE5-WP-C/DuetE5-WP-C-BT use same EDID for USB-C as HDMI

Update XB5E reset control behavior for USB detection

Update XB5E USBC-DP_HDMI update function and logging messages

Update XB5D Video Output color space

Update E5200/DuetE-5 USB-C and AUTO input modes

Update E5200/DuetE-5 display of STREAM.PRIORITY in Web GUI

Update Decoders kernel to address crash reboot when switching from

VIDEO.OUTPUT=OFF --> VIDEO.OUTPUT=NORMAL

3.19.11

Add DuetE5-WP-C/DuetE5-WP-C-BT STREAM.MODE=AUTO and STREAM.VIDEO_PRIORITY Functions to Web GUI

Update Native AES67: make it run always even if no audio is present

Update DuetE5-WP-C/DuetE5-WP-C-BT VLAN Tagging and Trunking

Update DuetE5-WP-C/DuetE5-WP-C-BT Visionary Customized EDID

Update XB5E STREAM.AUDIO missing in Web GUI
Update MV5E Scaler Update Function
Update Encoders STREAM.BIT_RATE display in Web GUI

- 3.19.10 Add support for new DuetE5-WP-C, DuetE5-WP-C-BT, and DuetD5-WP products
 Add DuetE5-WP-C-BT Bluetooth audio capabilities
 Add DuetE5-WP-C AVFE Query and Update functions
 Allow XB5D user to DISABLE link on provided PC LAN Port via IP.PC_PORT
 Update Console admin user password to match Web admin password
 Update Bootloader
 Update QUERY.AES67_INFO No Valid API CMD Reply
 Update Mass Configuration Keys
 Update Encoder default setting for STREAM.BIT_RATE
 Update Encoder STREAM.MODE and STREAM.BIT_RATE
 Update Decoder STREAM.CONNECT function
 Update Decoder VIDEO.OUTPUT mode change timing
 Update XB5E mismatched Sample Rate when passing Dante Audio to the PC via USB
 Update DuetE5-WP-C-BT STREAM.VIDEO selection during installation
 Update DuetE5-WP-C/DuetE5-WP-C-BT EDID name
 Update DuetE5-WP-C USB features to work when USB-C not selected as Video input
 Update E5200/D5200 VLAN Tagging for Expansion port when Trunking is enabled
 Update MV5 Diagnostics Info Display
 Remove XB5D OFF option from VIDEO.OUTPUT
- 3.19.9 **MAJOR UPDATE** D5200/DuetD-5 AVBE FW from 2.12 to 2.16 (Fix 4K60 Video Output)
 Add delay to decoder USB kernel module to prevent random Decoder boot crash
 Update API Handler Hardening and Cleanup
 Update QUERY.QKR Parameters
 Update XB5 Encoder HPD Monitor

Update XB5 Encoder Ethernet functionality in Boot Loader

Update Netstat Display

Update 05_2160P60_LPCM_2CH EDID with working version

Update Visionary Ethernet Switch Controller Process

Update FW Upgrade/Downgrade by Model to reduce mismatch issues

Update Boot Loader default environment to include function for unit recovery

Remove Native AES67 RX functionality from Web GUI

- 3.19.8 **MAJOR UPDATE** completely re-tool API handler. Add new background query task to perform heavy lifting and share learned data via shared memory to speed up the API handling process
- MAJOR UPDATE** new QUERY.QKR=TRUE command to retrieve all necessary params for External Control (QSC, Crestron, etc.)
- Add XB5 VLAN Tagging/Trunking and Fabric Attach Support
- Add XB5 USB Reset Controls to diagnostics Page
- Add XB5 Do not allow XB5 Decoder to tune to PEER XB5 Encoder
- Add XB5 allow connected PC to see Dante Control and Config Multicast Data
- Add XB5 Support for new Flash Device
- Add XB5E script for handling XB5 USB resets based on Hot Plug detection status
- Add XB5E DANTE.TX_AUDIO control to allow user to select DISPLAYPORT Audio or USB Audio Path to Dante Tx
- Add XB5D AUDIO.AEC_ENABLED API control (Save and Reboot Required)
- Add XB5D error checking and retry to initialization peer detection
- Add XB5D VIDEO.FORMAT controls. Scaler now works same as all other Decoders
- Update XB5 Bootup dynamically update main index Web UI page
- Update XB5 HDMI labels to DISPLAYPORT
- Update XB5E USBDP-HDMI FW to version 0.5.f
- Update XB5E Default Dante Device Name
- Update XB5D CRT_MCU FW to 1.33

- Update XB5D USBUVC FW to 1.10
- Update XB5D STREAM.AUDIO setting during bootup
- Update XB5D Network Control Filters
- Update XB5D Decoder USB Audio initialization so Dante Audio can flow through to the PC even without a valid Route to the Decoder
- Remove XB5E startup RESET commands from USBDP-HDMI Kernel Driver
- Remove XB5D VIDEO.GENLOCK
- Remove XB5D USB.ENABLED and sub controls, not supported in this model
- Add new models to Mass Config, remove unused keys
- Add LLDP for new models
- Add Decoder Scaler Changes instant rather than requiring Save and Reboot
- Add D5000 Native AES67 Controls and functions
- Add Native AES67 Receive functionality
- Add D5200 allow AVBE firmware updates (with latest hardware mod)
- Add admin user console/telnet menu level access like 4 Series
- Add Stream Restart Button on Diagnostics Page of All Models
- Update Encoder EDID files specific to Model and Serial Number of unit
- Update javascript error when uploading firmware via webpage
- Update not adding 802.1q tags to packets leaving the Uplink Port when set to TRUNK mode
- Update STREAM.BIT_RATE Controls now work and have more options
- Update BT state machine and data transfer
- Remove Visionary API Watchdog, replace with internal checker and dumper vapi_backlog

- 3.19.5 Add New Video Resolution Formats and Add 3840x2400@30
- Add Factory default handling for XB5
 - Update Javascript Error when attempting to Set to DHCP without un-needed params present
 - Update EDID upload between Models

Update D200/DuetD-5 AUDIO.DAC_MUTE setting at bootup

Remove False Firmware Update Fail message at beginning of update log

- 3.19.4 Add check AVFE Version at boot, do not force upgrade
 Add Audio Controls for XB5
 Add Field Upgrade of XB5E USB_DP-HDMI (latest version 1.19.0,0.4.1)
 Add Field Upgrade of XB5D CRT_MCU (0.21) and USB UVC Output Device (1.03)
 Update Behavior when receive STREAM.HOST=0.0.0.0 OR 127.0.0.1 go to LOGO Mode
 Update Bootloader and Kernel Drivers to support new flash part mx25u51245g on XB5
 Update erratic non-streaming behavior when USB is enabled and connected to Encoder
 Update IP.VLAN_TRUNK_MODE for WallPlates and DuetX-5
 Update IP.VLAN_TRNUK_MODE=TRUE behavior
 Update units to be discovered in VLite when set to DHCP with no DHCP Server present
 Update QOS_DSCP tagging of Audio, Video and USB
 Update Self Register AES67 RTP and SAP data streams
 Update errant DHCP behavior
 Update GPIO Output Control on E5200 and D5200
- 3.19.3 Add LLDP on new models (XB5, DuetE5-WP-C, DuetE5-WP-C-BT, DuetD5-WP)
 Add new param VW.ROTATION_RESET
 Add Audio Controls for XB5
 Update Web Page returning early from Firmware Update
 Update field upgrade and version checking of AVFE for E5200/DuetE-5
- 3.19.2 Add support for new Bridge Model XB5E and XB5D
 Add Decoder Scaling option of 2400x1350@60Hz
 Add only Stop Video when VIDEO.OUTPUT gets set to anything but Normal (leave other services running)
 Add Visionary API Watchdog application

Update Switch Control from script to Application
Update switch level stream filtering for use by the XB5 Bridge
Update functionality of HDCP REJECT in E5200 and DuetE-5 platforms
Update Advanced OSD, add Alpha and Timer params
Update VIDEO.SOURCE_TIMEOUT defaulting to TRUE

- 3.19.1A Update AUDIO.DAC_MUX during initialization for DuetD5 and DuetE5-WP
Remove AUDIO.DAC_MUX controls from DuetE5-WP-H and DuetE5-WP-BT
Remove Custom EDID button from MV5E
- 3.19.1 Add support for new model D5000
Add back the NEW_HOST_IP_(IP_ADDR) section to response from STREAM.CONNECT to
maintain compatibility with Encd User API Parsing code
Add debug for encoder Stream startup params
Update USB, Video, Audio drivers and control apps
Update JavaScript Libs JQuery to v3.7.1 and BootStrap to v5.3.3
Replace Switch Control from scripts to new Application format with lockout capabilities
- 3.18.17 Add new Visionary watchdog to monitor and restart API if it hangs
Add date to log for checking timing between startup processes
Update Duet Launching, hold UltimoX chip in Hard Reset on DuetX-5 and perform Soft
Reset on Duet-WP Models
- 3.18.16 Add delay launching Duet
Add launching debug
- 3.18.15 Add D5000 Model to system
Add current resolution to MV5 Info Page
Update MassConfig CSV File to support UTF-16 in and out

Update AUDIO.DAC_MUX parameter setting at bootup

- 3.18.14 Add javascript filesize check to Splash Image update
 Add AES67 QOS Controls
 Add BT.BUTTON_ENABLED to GUI of BT Units
 Add Diagnostics link to Main GUI
 Add Enable/Disable MassConfig buttons to Diagnostics page on Decoders
 Add Save Config Button to Diagnostics page of all units
 Add VideoWall Keys back to MassConfig, removed unused/invalid keys
 Add DHCP to continually attempt to get an address, even if it fails at initial boot
 Add Restart Stream button to Encoders Diagnostics page
 Add Netstat Query Button to Diagnostics page for all Units
 Add Latest Version to MV5 info section
 Update Network Stream Filters in internal switch
 Update switch AES67 functions and PTP config
 Update handling for QSC PTP Announce packet containing extra bytes
 Update GPIO control for E5200 and DuetE-5 (IR functionality)
 Update to allow TAG Controls for DuetE5-WP-BT
 Update MV5 Default Scaler functionality
- 3.18.13 Add MV5 Scaler Version to SPI replies, and show on MV5 info Page
 Add ve_checker.sh
 Update MV5 Scaler
 Update Auto-IP Failover when DHCP Fails
 Update WP loss of analog audio when HDMI is unplugged
 Update syntax of switch to avoid breakout error
 Update power and link LED Polarity on MV5

- 3.13.56 Add GPIO to X5100
Add SRC MUTE for rework units that use SOC GPIO instead of Ultimo GPIO
Update btm_button debounce to match 4 series
Fix Analog Volume Control on D5100
- 3.13.54 Add API control over Power and Link LEDs
Add direct re-connect to same host after going into VIDEO.OUTPUT=STANDBY/LOGO/OFF
Add API control over Power and Link LEDs
Add new default Splash Screen image
Re-enable Dante options in GUI
Resolved audio issue with wallplates when no HDMI connected
Resolved wallplate audio routing issues
Fix display of decoder and encoder IP addresses on Splash Screen
Fix javascript error when attempting to save Config Page GUI on E5-WP
Fix E5-WP no analog audio
Fix non-defaulted parameter state in GUI
Fix for SRC ticking with MOD-DANTE-5
- 3.13.46 First public release