RELEASE NOTES

Automate VX

automate_vx_6.7.0.17

Product or Content Description

- **IV-SAM-VX2-S**
- **IV-SAM-VX2-P**
- **IV-SAM-VXS-1B**
- **IV-SAM-VXP-1B**
- **IV-SAM-VXN-1B**

Item	Value
File name	automate_vx_6.7.0.17_signed.exe
MD5	2C043CFFB44FA32B8350A2370387357D
SHA-256	32B4811DEF46659D3966F5FDE127FB2384DDAEF6321E89275244FB7285BEC46B

System Requirements and Dependencies

Automate VX 6.7.0.17 is for Automate IV-SAM-VX-1B and IV-SAM-VX2-x hardware only from Crestron and previously 1 Beyond with serial# 1B6455 or later and serial# B13823 and later.

Required minimum camera firmware:

IP12 (IVCAMPTZ-12)	3.1.28
IP20 (IVCAMPTZ-20)	3.1.46
AutoTracker 3 (IV-CAMA3)	5.1.108
p20 (IV-CAM-P20)	2.1.108
p20 GV (IC-CAM-P20-GV)	2.1.108
p12 (IV-CAM-P12)	2.1.108
i20 (IV-CAM-I20)	2.1.02

i20 GV (IV-CAM-I20-GV)	2.1.02
i12 (IV-CAM-I12)	2.1.02
i12 GV (IV-CAM-I12-GV)	2.1.02

Included software versions:

Automate VX software	6.7.0.17
Wirecast	16.5.0.438
Crestron 1 Beyond Camera Manager	2.2.03 (for p20, p12, i20, i12)

Tested with the following Microphone and DSP firmware:

Audio-Technica ATND1061	1.4.1
Audio-Technica ATUC-50	2.1.0
Biamp Tesira Forte	4.11.2
Bosch Dicentis DCNM-SERVER4	6.21.34
Q-Sys Core 110f	10.41.7.0.0
Sennheiser TCC2	1.8.10
Sennheiser TCC M	1.7.0
Sennheiser TCC M Plus	1.0.0
Shure Intellimix Room	6.10.0
Shure MXA310	6.6.0
Shure MXA901	6.9.0
Shure MXA910	6.5.1
Shure MXA920	6.10.0
Shure MXCW	7.3.0
Shure P300	6.6.0
Yamaha ADECIA RM-CG	3.0.1
Televic Conferencing System	7.14.1
Taiden Conferencing System	1.01.03.03

Tested with the following 3rd party cameras:

Panasonic AW-UE100	2.45
Panasonic AW-UE150A	1.26
Panasonic AW-UE160	2.48

Tested with the following external switcher:

BlackMagic ATEM	10.3

Tested with the following Web Browser:

Microsoft Edge	152.0.4191.66

Upgrade Instructions

- Software installer is available on Crestron.com and through the Crestron Support team. When updating a system, select **Update** when prompted in the installer to ensure configuration files are updated properly and settings are preserved.
    - To ensure proper operation, do not manually load system files through File Explorer.
- Automate VX2 systems with internet connectivity are also updated through Windows Update.

Backwards Compatibility

- Room Designs created with the Crestron website Room Designer version 1.60 and later will open in Automate VX 6.7. If upgrading from a version prior to 6.4.1 Wirecast shots may be re-arranged, this does not affect switching.

- Room Designs created in Automate VX 6.6 or the Crestron website Room Designer version 6.6 are not backwards compatible with earlier versions of Automate VX. If you create your design on the Crestron website with version 6.6 make sure to update your system to Automate VX 6.6 or later.

- Projects with custom assets (e.g., Backgrounds, Logos, Images etc.) may need to be moved to the new storage location D:\Assets. If assets are moved, they will need to be re-linked in Wirecast. D:\Assets will be the default location for assets moving forward.

- As of 6.4.1 Zoom Rooms Control has been deprecated, if required 6.4.0 is the last supported version.

- As of 6.5.0 ISO recording is no longer supported, if required 6.4.2 is the last supported version.

Recommendation and Notes

- For systems with a large number of NDI streams it is recommended to configure the system from a browser on another PC on the network rather than locally on the Automate VX Server. Running AutoSwitch preview in a browser locally on the VX system will result in video latency, it is recommended to access from a remote machine via https://<ipaddress>:4443 or http://<ipaddress>:3579.
- It is recommended to update the firmware on the Inogeni SDI2USB3 converter to version 8.96 or greater.

Current Release

Installer 6.7.0.17 Date: 2026-09-09

New Features

- **AutoSwitch/Visual AI**
  - [AVX-6198] Visual AI accuracy improvements
    - Visual AI performance improved in situations where multiple faces appear in a shot. Prevents Visual AI from framing faces shown on in-room displays.
  - [AVX-6791] Visual AI inferencing improvements
    - Reduces AI inferencing time for lowered switch times.
- **Audio / Mic Devices**
  - [AVX-2976] Crestron DM-NAX-AP-100 Intelligent Audio Processor
    - Adds support for the DM-NAX-AP-100 paired with Sennheiser TCC-M and TCC-M Plus microphones.
  - [AVX-6535] Sennheiser TCC-M Plus microphone device
    - Adds support for Sennheiser TCC-M Plus.
  - [AVX-6542] Shure MXA925-S/MXA925-R microphone device
    - Adds support for Shure MXA925-S and MXA925-R.

Behavior Changes

- **Room Designer**
  - [AVX-7394] Support Package and Platform Logs now include the 1brd file.
  - [AVX-7659] Aspect ratio of uploaded image is preserved when importing furniture image.
  - [AVX-7660] “Shure MXA920 XYZ” is now labeled “Shure MXA920”.
- **AutoMeasure**
  - [AVX-7715] Output is disabled while AutoMeasure is running to prevent discovery of markers on displays.

Fixed Issues

- **Room Designer**
    - [AVX-7743] Fixed issue where Adjudicator channels would be cleared when entering Room Designer.
    - [AVX-6763] Resolved an issue where an error message is displayed if user attempts to export log package while another export is already in progress.
- **AutoSwitch / Visual AI**
    - [AVX-6961] When switching between Room Configurations using a Scenario, any intelligent tracking cameras with “Use as PTZ” toggle selected will not stop tracking until AutoSwitch is started.
    - [AVX-5120] AutoSwitch may switch away from Priority Microphone in Conversation mode while Priority Microphone is still active.
- **System/Platform**
    - [AVX-7745] Resolved issue where Room Configs could become corrupted if user navigates away from Room Designer tab while config deletion confirmation pop-up is present.
    - [AVX-6763] Refresh of browser page during support package download may cause an error to appear if support package is downloaded again within a short window of time.
    - [AVX-3179] If using the SIMPL module (rather than the VX2 hardware definition) and an API is called which the user does not have permissions for, the module will log the user out. Correct user permissions and/or manage error code to log the user back in.

Known Issues

- **Room Designer**
    - [AVX-7894] – When uploading a 1brd gathered through the platform “Download All” logs, Floor Plans may not render. Refresh page to recover.
    - [AVX-7847] Proximity Check lines may not appear until the affected virtual microphone is selected.
    - [AVX-7846] When a QSYS or Tesira device is added to the room design, an error message will appear at each AutoSave until a codename is entered.
    - [AVX-6953] Calling a new Scenario containing a different Room Config while running AutoSwitch Preview will display the previous Room Config in AutoSwitch Preview. Refresh browser page to recover.
    - [AVX-6649] When “Show Mic Coverage Radius” toggle is enabled and superlobes are being actively edited, microphone coverage markers will not move until superlobe editing mode is disabled.
    - [AVX-6506] Momentary visual inconsistencies may be experienced when uploading Metric 1brd files.
    - [AVX-3334] Proximity check lines may render on a layer above the microphone.
    - [AVX-2924] When using external control and accessing the web UI simultaneously, if Layout is changed the feedback text may not update properly in the web browser until the page is refreshed
    - [AVX-2872] Users are not logged out of their current session if the password is changed while they are already logged in.

- [AVX-7716] PTZ overrides in Scenarios are deleted if the IP address of a camera is changed in Room Designer

- **AutoSwitch/Visual AI**
  - [AVX-7481] When True Position is enabled and positional data is not accurate, Face Presence check may intermittently fail. As a result, Automate VX may not switch to the active speaking participant. If this issue occurs, disable True Position.
  - [AVX-6471] Error messages may take longer than usual to populate when AutoSwitch is running.
  - [AVX-2865] Cameras may remain frozen if Autoswitch is interrupted and not shutdown cleanly. Restarting Autoswitch will recover.
- **Microphone Devices**
  - [AVX-6524] If AutoSwitch is started while a Televic meeting is already in progress, Automate VX may not switch to the first microphone activated if the microphone is activated immediately after AutoSwitch starts.
  - [AVX-6518] When adjusting rotation of camera device in Room Designer and Shot Visualization is enabled, visualization will be shown to the last selected Virtual Microphone device, even if no Virtual Microphone device is currently selected.
  - [AVX-5459] On some Apple devices using Edge as the browser the Info icon may have an issue where users must hover directly over the letter *i* to display the information box.
- **System/Platform**
  - [AVX-7861] AutoSwitch_F SIMPL join will momentarily go high while AutoSwitch_F is also high after AutoSwitch is started.
  - [AVX-6468] Saving of recordings will fail if a display is not connected. Users without a display connected should utilize the included EDID emulation dongle to resolve this issue.
  - [AVX-5250] Online License mode for XiO cloud will switch to offline when device is offline in XiO. Reverts back to Online when VX is online in XiO
  - [AVX-2824] Installing Sennheiser Control Cockpit on the VX system may cause port conflict issues. It is recommended to configure microphones in the system from a different computer.
  - [AVX-2337] The system may momentarily output video during a reboot even if the startup action is set to a scenario where the output is off.
  - When 12 first generation 1 Beyond cameras are shared between 2 or more VX2 systems, camera streams may not be stable.
- **AutoMeasure**
  - [AVX-7761] I-Series cameras' lightbars display green while AutoMeasure runs and output is disabled.

Release History

Installer 6.6.0.42 Date: 2026-06-16

New Features

- **Room Designer**
    - [AVX-1699] Composite Default Shot
        - Enables the creation of custom default shots, delivering advanced compositing and camera-stitching capabilities.
        - Adds shot addition page to Scenarios tab that allows for definition of Wirecast shot as well as PTZ overrides for any camera(s) desired
    - [AVX-1530] Decouple Room Designs and Room Configurations
        - Separates Room Designs from Room Configurations to allow for easy reconfiguration or adjustment of devices across all Configurations.
            - Room Designs contain all device placement and room infrastructure including microphone/camera device addresses, microphone/camera device positions, Adjudicator settings, room design image, and scaling for the room design image.
            - Room Configurations contain Virtual Microphone placement and configuration, Blocking Zone configuration, Default Shot configuration, Furniture items, Visual AI configuration, AutoSwitch settings, Conversation Mode settings, Push-To-Talk settings, and Sleep/Wake settings.
    - [AVX-1530] Add “Furniture Image” to Furniture tool – Allows for import, scaling, and alignment of a furniture image. This allows for multiple discrete furniture plans to be included in separate Room Configurations
    - [AVX-1530] Add AutoSave
        - Changes made in Room Designer are saved automatically.
    - [AVX-6472] Graded Proximity Check
        - Proximity Check lines are rendered in Red/Yellow/Green to indicate confidence in microphone response accuracy for each Virtual Microphone.
            - Yellow: Low Risk (Minor chance of instability)
            - Orange: High risk (Major chance of instability)
            - Red: Critical risk (Virtual Microphones too close to distinguish or out of range.)
    - [AVX-3266] Camera Field of View (FoV) Obstruction Warning
        - When Shot Visualization is enabled, Virtual Microphones are highlighted in red if they are estimated to obscure the FoV of the camera assigned to the selected virtual microphone. This can be used to ensure that camera obstruction will not occur when designing an Automate VX system.

- [AVX-1863] Identify Devices
    - Adds “Identify” button for Camera and Microphone devices with LED indicators. Flashes LED indicator of selected device when activated.

- **AutoSwitch/Visual AI**
    - [AVX-5449] Visual AI inferencing and detection speed improvements
        - Improved speed for Visual AI, including Reframe and Face Direction. This applies to IV-SAM-VX2-S and IV-SAM-VX2-P only
    - [AVX-5450] Visual AI improvement - Empty Shot Validation
        - When enabled, Automate VX will not switch to seats where a face is not detected.
    - [AVX-5348] Speaker Stretch
        - Allows speaking participant to move further towards the edge of a Virtual Microphone and expands virtual microphone boundaries to accommodate natural speaker movement, reducing unintended camera switches during speech.

- **Mic Devices**
    - [AVX-1830] Televic Seat Names
        - Adds Dynamic Titling support for Televic discussion systems.
- **AutoMeasure**
    - [AVX-6441] [AVX-6435] [AVX-6443] AutoMeasure Improvements
        - Accuracy improvements for AutoMeasure.
        - Improved performance in high/low lighting environments.
        - Added support for AutoMeasure when using Discussion Systems – Steps to use AutoMeasure with a Discussion System are available in the Automate VX software manual.

Behavior Changes

- **Room Designer**
    - [AVX-6648] AutoSwitch preview is now available when loading room design while AutoSwitch is running
    - [AVX-2184] Clearing browser cache is no longer required when updating from version 6.5 or higher
    - [AVX-1530] AutoSwitch preview is available when accessing the room design while AutoSwitch is already running
    - [AVX-5071] PTZ Override LED
        - When manually adjusting shots via PTZ override in Scenario tab, LED indicator shows as yellow when PTZ position of camera does not match saved value
    - [AVX-2231] Wide Angle Shot Visibility
        - Adds visualization of wide angle cameras to Shot Visualization for intelligent cameras (i20/i12/AT3)
    - [AVX-2230] Delete Key for Room Designer Objects
        - Delete key may now be used to delete highlighted Room Designer object.

- [AVX-6894] “Configuration Saved Successfully” confirmation pop-up no longer appears when saving selecting “Save Config” in Settings pages.

- **AutoSwitch/Visual AI**
  - [AVX-2182] Camera LEDs flash red upon error when starting AutoSwitch
    - When AutoSwitch fails to start due to an error, camera LEDs flash red (p20/p12/i20/i12 only)
  - [AVX-2496] StartAutoSwitch Busy Response
    - StartAutoSwitch API now provides “AutoSwitch is Starting” message while AutoSwitch is starting. Addition of new “AutoSwitch_Starting_F” item to SIMPL Device Definition and Module.
  - [AVX-2492] Update Logs
    - Improved log behavior including color coding, current config logging, and removal of redundant information.
  - [AVX-1774] AutoSwitch logs include current current configuration
  - [AVX-2946] Added API to provide feedback when AutoSwitch is starting
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Fixed Issues

- **Room Designer**
  - [AVX-2763] Fixed issue with mismatched PTZ overrides when changing secondary camera to same device as primary camera
  - [AVX-3333] Fixed issue where Proximity Check lines are rendered twice
  - [AVX-3378] Fixed issue where furniture selection highlight was incorrect if switching between imperial and metric units.
  - [AVX-5164] Fixed issue where users can enable Live Mode while AutoSwitch is running.
  - [AVX-5177] Fixed issue where when duplicating a mic device the duplicate IP address check is bypassed allowing the design to be saved.
  - [AVX-5221] Fixed issue where manual camera control can bypass the model check and allow moving cameras which are assigned an incorrect model number.
  - [AVX-5222] Fixed issue where very long Room Config Names can be cut off on the web UI Room Configs selection.
  - [AVX-5229],[AVX-5379] Fixed issue where no error is thrown when attempting to set a PTZ override or otherwise control cameras which are offline.
  - [AVX-5370] Fixed issue where PTZ Overrides cannot be set on cameras which are not yet saved into the Room Design.
  - [AVX-5458] Fixed issue where keyboard shortcuts are not operational when Caps Lock is turned on.
  - [AVX-5355] Fixed issue where Pan direction of cameras could not be changed while Live Mode is active
  - [AVX-5357] Fixed issue where i12/i20 LEDs would remain green after AutoSwitch was disabled while output is off

- [AVX-5209] Fixed issue where cycling through camera assignments for a virtual microphone with the arrow keys caused virtual microphones to move
- [AVX-5554] Fixed issue where Measuring Tape does not appear when “Show Devices” is disabled
- [AVX-5592] Fixed issue where Scenario Setup page was not accessible when Settings or Room Designer access were disabled

- **AutoSwitch / Visual AI**
  - [AVX-5024] Fixed issue where on rare occasions if AutoSwitch fails to start after using Save and Start AutoSwitch, the text feedback on the button may not be correct.
  - [AVX-5546] Fixed issue that caused AutoSwitch to error when exclusion zones were disabled in Sennheiser TCC2 microphone devices.
  - [AVX-5545] Fixed issue in which the Adjudicator mixer label was cleared after Settings page was saved.
  - [AVX-6469] Fixed issue where Stop AutoSwitch action being set to a scenario can overwrite other configurations.
  - [AVX-6540] Fixed issue where AutoSwitch would error with a .NET exception message.

- **ATEM**
  - [AVX-5461] Fixed issue where when recalling camera specific Layouts on an ATEM, such as B_2 and the xml provided doesn’t have the appropriate input in the active speaker box, the source shown may be incorrect and an error is returned. Can be mitigated by exporting SuperSource with the named camera as the active speaker source.
  - [AVX-6655] Clarified ATEM error messaging.
  - [AVX-5462] Fixed issue where if using an ATEM without SuperSource and the current input for the program feed is not a camera. Then the layout and current camera selection feedback are not highlighted appropriately.
- **System/Platform**
  - [AVX-1440] Fixed issue in which Wirecast would occasionally reboot in Demo mode.
  - [AVX-5586] Fixed issue where camera presets were not saved, even when SaveCameraPreset API gives a valid response.
  - [AVX-6538] Fixed issue where Wirecast would take longer than usual to open, requiring a reboot of the Automate VX to resolve.

Known Issues

- **Room Designer**
  - [AVX-6953] Calling a new Scenario containing a different Room Config while running AutoSwitch Preview will display the previous Room Config in AutoSwitch Preview. Refresh browser page to recover.

- [AVX-6506] Momentary visual inconsistencies may be experienced when uploading Metric 1brd files.
- [AVX-6649] When “Show Mic Coverage Radius” toggle is enabled and superlobes are being actively edited, microphone coverage markers will not move until superlobe editing mode is disabled.
- [AVX-3334] Proximity check lines may render on a layer above the microphone.
- [AVX-2924] When using external control and accessing the web UI simultaneously, if Layout is changed the feedback text may not update properly in the web browser until the page is refreshed
- [AVX-2872] Users are not logged out of their current session if the password is changed while they are already logged in.

- **AutoSwitch/Visual AI**
  - [AVX-6961] When switching between Room Configurations using a Scenario, any intelligent tracking cameras with “Use as PTZ” toggle selected will not stop tracking until AutoSwitch is started.
  - [AVX-5120] AutoSwitch may switch away from Priority Microphone in Conversation mode while Priority Microphone is still active.
  - [AVX-6471] Error messages may take longer than usual to populate when AutoSwitch is running.
  - [AVX-2865] Cameras may remain frozen if Autoswitch is interrupted and not shutdown cleanly. Restarting Autoswitch will recover.
- **Microphone Devices**
  - [AVX-6524] If AutoSwitch is started while a Televic meeting is already in progress, Automate VX may not switch to the first microphone activated if the microphone is activated immediately after AutoSwitch starts.
  - [AVX-6518] When adjusting rotation of camera device in Room Designer and Shot Visualization is enabled, visualization will be shown to the last selected Virtual Microphone device, even if no Virtual Microphone device is currently selected.
  - [AVX-5459] On some Apple devices using Edge as the browser the Info icon may have an issue where users must hover directly over the letter *i* to display the information box.
- **System/Platform**
  - [AVX-6468] Saving of recordings will fail if a display is not connected. Users without a display connected should utilize the included EDID emulation dongle to resolve this issue.
  - [AVX-6763] Refresh of browser page during support package download may cause an error to appear if support package is downloaded again within a short window of time
  - [AVX-5250] Online License mode for XiO cloud will switch to offline when device is offline in XiO. Reverts back to Online when VX is online in XiO
  - [AVX-4991] When downloading the support package a notice may appear saying the download is complete before the browser finishes the actual download.
  - [AVX-3179] If using the SIMPL module (rather than the VX2 hardware definition) and an API is called which the user does not have permissions for, the module will log the user out. Correct user permissions and/or manage error code to log the user back in.
  - [AVX-2824] Installing Sennheiser Control Cockpit on the VX system may cause port conflict issues. It is recommended to configure microphones in the system from a different computer.

- [AVX-2337] The system may momentarily output video during a reboot even if the startup action is set to a scenario where the output is off.
- When 12 first generation 1 Beyond cameras are shared between 2 or more VX2 systems, camera streams may not be stable.

Installer 6.5.0.101 Date: 2026-03-12

New Features

Crestron Platform

- [AVX-2966] Added basic support for Crestron XiO Cloud.
  - Includes: Status, Firmware Update, Reboot, Log Retrieval, Control System Configuration, Network Configuration, Licensing, Schedule Actions.
- [AVX-1718] Crestron Remote is now supported and should be used in place of Windows Remote Desktop Connection. Refer to the Software Product Manual for more information.

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- [AVX-1726] Panasonic Platinum Series Camera Support (for IV-SAM-VX2-P only)
  - Panasonic AW-UE100, AW-UE150A, and AW-UE160 can be integrated as third-party cameras with the additional purchase and activation (through XiO Cloud or via a USB-OFFLINE dongle) of a SW-IV-SAM-3RDPARTYCAM enablement key, together with an Automate VX Care plan for an initial subscription term of three years, where available. Refer to the SW-IV-SAM-3RDPARTYCAM for more information.
- [AVX-1817] AutoMeasure for Cameras and Microphones
  - Streamlines the deployment process by using computer vision to automatically position camera and microphone devices in the room and provides a report with the results.
  - Requires AutoMeasure cubes (IV-SAMA-AMCUBE-1-12). Refer to the Product Manual for more information.
  - Works with both i and p series cameras.
- [AVX-1533] General Health Status API added for system monitoring.
  - Provides details on the status of the unit and connected devices in 2 minute intervals.
  - View software manual or API docs for more info- https://sdkcon78221.crestron.com/sdk/Automate-VX-API/Content/Topics/Automate-API/API-Reference/API-Reference.htm
- [AVX-1471] Bosch DICENTIS is now a supported discussion system. Includes support for dynamic titling.
- [AVX-1470],[AVX-2916],[AVX-2943] ATND-1061 is no longer in beta (requires firmware FW 1.4.1 or higher). For best performance it is recommended to use the following settings found in Digital Microphone Manager- Beam Sensitivity: Low, Room Type: Reverberant
  - Speech Detection flag is now used to assist in preventing false triggers by noise.
- [AVX-864],[AVX-1806] For QSC Core and Biamp integrations, added user login and discrete Mixer Labels (now refenced as Codename and Instance tag respectively). This also provides support for the use of more than 1 Instance Tag or Codename.

    - Separately, Biamp FW 5.4.0 provides an increase to the logic level meter from a maximum of 32 to 128 channels.
- [AVX-2937] Performance improvements to all Visual AI modes.
- [AVX-2909] AutoSwitch Preview now includes Face Direction Visualization. This is enabled by default when Visual AI features are enabled.
- [AVX-3587] Proximity Check values have been updated for all positional mics.
- [AVX-2944] PTZ Correction will be performed during the nightly maintenance. Can also be manually triggered via API, or SIMPL HW definition.
- [AVX-2800] Empty titles in the static titling fields are now permitted.
- [AVX-2750] Current Room Configuration number will now be printed to the AutoSwitch log.
- [AVX-2183] Added a shortcut for Live Mode (ctrl + q)
- [AVX-1762] Download logs through web UI now includes Download Support Package or Download All Logs.
- [AVX-1761] Improved stability and robustness of camera FW updater.
- [AVX-1750] Shure MXA901 running at least FW 6.6.0.123 is now a supported positional microphone.
- [AVX-1541] Extending the output of the Inogeni SDI to USB adapter using DM NVX products with USB routing, and DM NUX products is now supported.
- [AVX-1539] Scaling in Room Designer no longer adjusts the positions of devices.
    - The capability to shift the background image has also been added.
- [AVX-1531] Multi-select and move like devices is now supported in the Room Design.

Behavior Changes

Automate VX

- [AVX-5048] ISO Recording capabilities have been deprecated and are no longer supported.
- [AVX-3017] Chairman Mic is now named Priority Mic.
- [AVX-3366] Breadcrumbs toggle has been removed and they are now enabled whenever AutoSwitch Preview is running and positional mics are used.
- [AVX-2947] Performance improvements for when Automate VX freezes a camera.
- [AVX-5216] Live icons in Wirecast have been disabled to improve performance.

Fixed Issues

Crestron Platform

- [AVX-5213] Fixed an issue where when an i series camera is configured to be used as a PTZ and the wake action was set to Start AutoSwitch and AutoTrack the system would start tracking on the camera.
- [AVX-5154] Windows service permissions have been updated to improve device security.
- [AVX-5135] Fixed an issue where AutoSwitch or Output can get stuck in a loop of enabling and disabling.
- [AVX-3551] Notepad++ has been removed from the system to improve device security.

- [AVX-2920] Fixed an issue with the SIMPL hardware definition where the Log_Location destination was not updated properly.
- [AVX-2189] Updated OpenSSL to use the appropriate certificate chain.

Automate VX

- [AVX-5465] Fixed an issue where Proximity Check lines could remain visible after a device is deleted.
- [AVX-5091],[AVX-5126] Fixed an issue which prevented exporting a design if the Room Name was >30 characters. Room names are now limited to 30 characters.
- [AVX-5075],[AVX-5088] Fixed an issue when using Side-By-Side or Conversation mode where a live camera is used for a new shot even when the secondary camera is available.
- [AVX-5037] Fixed an issue when redo is used in rapid succession chairs could change their orientation.
- [AVX-5000] Fixed an issue where using the arrow icons to adjust table dimensions would cause other tables sizes to adjust as well.
- [AVX-4870] Fixed an issue where in Room Designer a camera number may not be displayed properly if the units are changed after the camera is rotated.
- [AVX-4395] DSPs no longer show proximity limits
- [AVX-3656] Fixed an issue with Sennheiser TCCM where when a VM is active and the RMS level momentarily drops below the RMS Threshold and the beam does not move, the virtual mic would gate off until a new beam is reported.
- [AVX-3643] If Live Mode is enabled when the user navigates away from Room Designer to the settings page, Live Mode will be turned off and the previous layout restored.
- [AVX-3348] Users are now prevented from starting Autoswitch with an empty room design.
- [AVX-3341] Fixed an issue where an ATEM recalling a shot which had custom media was not recalling the specific chosen media and instead was only calling the media player source.
- [AVX-3340] Fixed an issue when a scenario is created while connected to an ATEM, the Automate VX server may need to be restarted before the scenario can be utilized.
- [AVX-3338] Fixed an issue where AutoTracker Status is displayed as no action after saving a scenario, regardless of the user defined setting.
- [AVX-3204] Fixed an issue where Face Direction would trim a camera stacked with a tracking camera which was not set to Use as PTZ. Causing both cameras in that stack to be trimmed from Direction available cameras.
- [AVX-3203] Fixed an issue related to corrupt recordings preventing the user from starting additional recordings.
- [AVX-3191] Updated permissions related to users who have Settings disabled. They can now view Room Designer but cannot perform actions which require the Settings permissions.
- [AVX-3188] Fixed a setup user permissions issue which could prevent the Admin from accessing the settings page to correct the permissions issue.
- [AVX-2984] Fixed an issue where duplicated devices in metric may appear off the canvas.
- [AVX-2975] Shot Status API friendly name updated to match the data provided. Scenario has been changed to ShotName.
- [AVX-2960] Fixed an issue where when adding a display, the previous display would remain selected.

- [AVX-2959] Fixed an issue where Tables could unintentionally be moved when using the Tape Measure tool.
- [AVX-2953] Fixed an issue where certain systems with camera counts in excess of (25) may not be able to start Autoswitch.
- [AVX-2915] Users can now change/save scenarios while AutoSwitch is running. If a misconfigured Scenario was defined this allows you to correct it during runtime.
- [AVX-2912],[AVX-2955] Improved performance of AutoSwitch Preview with 8+ microphones.
- [AVX-2904] Fixed an issue where the last Title would remain on the output even after AutoSwitch was stopped.
- [AVX-2844],[AVX-3189] Fixed an issue which required the user to pause Recording before being able to stop recording.
- [AVX-2881] Fixed an issue which prevented users from navigating to Room Designer after enabling Recording.
- [AVX-2877] Live mode now shows the correct shots for the parent SuperLobe instead of the SubLobe
- [AVX-2875] If Wirecast is not enabled, SDI and NDI output settings will also be disabled.
- [AVX-2873] Invalid characters |, “, <, and > are no longer allowed for the Room Name field.
- [AVX-2870] Users can no longer successfully call a Scenario which has an invalid Shot. If the shot does not exist an error will be thrown instead.
- [AVX-2868] Users are no longer prevented from uploading a .1brd which has the same name as the currently selected Room Config.
- [AVX-2844] Fixed an issue where if recording is paused, then resumed, you must pause again before stopping the recording for files to be merged.
- [AVX-2834] Live Mode is now supported on ATEMs that support SuperSource. A side by side shot will be displayed. SuperSource must already be configured.
- [AVX-2831] Disabling NDI output no longer requires a reboot to take effect
- [AVX-2806] Active Talkers API now prints seat numbers in the log.
- [AVX-2764] Corrected an issue where config0 may get corrupted if too many debug images were stored
- [AVX-2757] Global Mic numbers are now centered on the virtual mic correctly.
- [AVX-2749] Removed no longer needed legacy files.
- [AVX-2726] Users are now prevented from duplicating Layout names.
- [AVX-2712] Users are now prevented from calling an invalid scenario number. Previously this caused an issue when using the HW definition in SIMPL.
- [AVX-2353] Corrected the order of operations for Wake and Sleep actions to ensure all Scenario settings execute properly.
- [AVX-2323] Calling wake while Autoswitch is active can cause unexpected behavior.
- [AVX-2229] Fixed an intermittent issue where selecting chairs may not work as expected.
- [AVX-2216] Fixed an issue where changing Scale after adding Furniture will change the position of the furniture.
- [AVX-2198] Fixed an issue where camera LEDs may become out of sync.
- [AVX-2191] Fixed an issue where Scenario calls would not complete.
- [AVX-2163] Merged fix which was included in 6.3 but not 6.4 for an issue when connecting to multicast devices.

- [AVX-1857] Corrected the behavior for when a text field is selected in Room Designer, arrow keys will now apply to the text field as compared to moving the previously selected room designer element.
- [AVX-1772],[AVX-1813] Fixed an issue where AutoSwitch would fail to start due to additional mics being reported by Taiden system.
- [AVX-1713] Fixed an issue where inverted cameras could not tilt down fully.
- [AVX-1532],[AVX-2741] Live Mode will now disable when navigating to another page from Room Designer, or any API call related to moving cameras outside of Live Mode calls.

Known Issues

- [AVX-5462] If using an ATEM without SuperSource and the current input for the program feed is not a camera. Then the layout and current camera selection feedback are not highlighted appropriately.
- [AVX-5461] When recalling camera specific Layouts on an ATEM, such as B_2 and the xml provided doesn't have the appropriate input in the active speaker box, the source shown may be incorrect and an error is returned. Can be mitigated by exporting SuperSource with the named camera as the active speaker source.
- [AVX-5459] On some Apple devices using Edge as the browser the *Info* icon may have an issue where users must hover directly over the letter *i* to display the information box.
- [AVX-5458] Keyboard shortcuts are not operational when Caps Lock is turned on.
- [AVX-5370] PTZ Overrides cannot be set on cameras which are not yet saved into the Room Design.
- [AVX-5229],[AVX-5379] No error is thrown when attempting to set a PTZ override or otherwise control cameras which are offline.
- [AVX-5222] Very long Room Config Names can be cut off on the web UI Room Configs selection.
- [AVX-5221] Manual camera control can bypass the model check and allow moving cameras which are assigned an incorrect model number.
- [AVX-5177] When duplicating a mic device, the duplicate IP address check is bypassed allowing the design to be saved.
- [AVX-5164] Users can enable Live Mode while AutoSwitch is running. It is recommended not to perform this action if AutoSwitch is active.
- [AVX-5120] When using Priority Mic with Conversation mode, a new Virtual Mic trigger can cause the system to switch away from the Priority Mic.
- [AVX-5024] On rare occasions if AutoSwitch fails to start after using Save and Start AutoSwitch, the text feedback on the button may not be correct. This is a visual feedback issue only.
- [AVX-4991] When downloading the support package a notice may appear saying the download is complete before the browser finishes the actual download.
- [AVX-3378] Furniture selection highlight may be incorrect if switching between imperial and metric units.
- [AVX-3333], [AVX-3334] Proximity check lines may render on a layer above the microphone, or may render twice.
- [AVX-3179] If using the SIMPL module (rather than the VX2 hardware definition) and an API is called which the user does not have permissions for, the module will log the user out. Correct user permissions and/or manage error code to log the user back in.
- [AVX-2924] When using external control and accessing the web UI simultaneously if Layout is changed the feedback text may not update properly in the web browser until the page is refreshed.

- [AVX-2872] Users are not logged out of their current session if the password is changed while they are already logged in.
- [AVX-2865] Cameras may remain frozen if Autoswitch is interrupted and not shutdown cleanly. Restarting Autoswitch will recover.
- [AVX-2858] If the port number is omitted when trying to navigate to the Automate VX web UI the default page no longer shows.
- [AVX-2824] Installing Sennheiser Control Cockpit on the VX system may cause port conflict issues. It is recommended to configure microphones in the system from a different computer.
- [AVX-2763] If the Primary and Secondary camera are the same and a PTZ override is set on one, the PTZ override confirmation LED will appear only for the camera it was set on. This is a visual feedback issue only.
- [AVX-2337] The system may momentarily output video during a reboot even if the startup action is set to a scenario where the output is off.
- [AVX-1440] On rare occasions, Wirecast may go into demo mode after reboot. To recover, reboot the VX system again. If the issue persists, contact Crestron support.
- When 12 first generation 1 Beyond cameras are shared between 2 or more VX2 systems, camera streams may not be stable.

Installer 6.4.2.13 Date: 2025-07-01

New Features

Crestron Platform

- N/A

Automate VX

- [AVX-3182] Added support for speech detection for Yamaha Adecia RM-CG.

Fixed Issues

Crestron Platform

- [AVX-3264] Fixed Microsoft Windows Unquoted Service Path Enumeration
- [AVX-3263] Secured Windows Service Permissions
- [AVX-3261] WinVerifyTrust Signature Validation CVE-2013-3900 Mitigation (EnableCertPaddingCheck)

Automate VX

- [AVX-3205] Fixed an issue where config files and the Wirecast project file could become corrupt in some instances if power was lost after installation completed but the unit did not yet reboot
- [AVX-3197] Fixed unauthorized access to restricted functionalities when using modified requests
- [AVX-3182] Fixed issue with AEC reference not being recognized when using Yamaha Adecia mics
- [AVX-2849] Corrected an issue where Face Direction may not choose the correct person when multiple people are detected in the frame
- [AVX-3276] Fixed an issue where legacy cameras may not move while they are frozen

- [AVX-3353] Added the missing IV-SAM-VXN-1B Wirecast project file back into the installer
- [AVX-3351] Fixed an issue where in some instances while using an ATEM, after uploading a layout and saving an error “Cannot access a closed file.” may be seen.
- [AVX-1254] Contact support for guidance with installations using the ATND1061 mic which is currently in beta.
- [AVX-2163] On systems where multiple ethernet interfaces are active, starting Autoswitch may fail intermittently due to an issue with multicast ethernet adapter issue.
- [AVX-2957] When “Use as PTZ” is selected on i series cameras, Visual AI performance issues may be experienced.

Known Issues

- [AVX-3333], [AVX-3334] Proximity check lines may render on a layer above the microphone, or may render twice
- [AVX-3338] AutoTracker Status is displayed as no action after saving a scenario, regardless of the user defined setting. This is visual only, does not affect user defined setting from working as configured.
- [AVX-3340] If a scenario is created while connected to an ATEM, the Automate VX server may need to be restarted before the scenario can be utilized.
- [AVX-3348] Autoswitch can be started with an empty room config.
- [AVX-3179] If using the SIMPL module (rather than the VX2 hardware definition) and an API is called which the user does not have permissions for, the module will log the user out. Correct user permissions and/or manage error code to log the user back in.
- [AVX-2953] Certain systems with camera counts in excess of (25) may not be able to start Autoswitch.
- [AVX-2226] Chairs rotate with the table even if Lock Chairs is disabled.
- [AVX-2229] Intermittently, selecting chairs may not work as expected. Deselect and reselect chairs to move.
- [AVX-2216] Changing Scale after adding Furniture will change the position of the furniture. Set scale before adding furniture.
- [AVX-2198] Camera LEDs may become out of sync.
- [AVX-2741] If Live Mode is not disabled, the layout may remain active while performing other actions. Disable Live Mode after use.
- [AVX-1772] Taiden models HCS-4800 and HCS-8600 may ship with incompatible firmware. Contact Taiden support to request firmware compatible with Automate VX.
- [AVX-2323] Calling wake while Autoswitch is active can cause unexpected behavior.
- [AVX-2824] Installing Sennheiser Control Cockpit on the VX system may cause port conflict issues. It is recommended to configure microphones in the system from a different computer.
- [AVX-2865] Cameras may remain frozen if Autoswitch is interrupted and not shutdown cleanly. Restarting Autoswitch will recover.

- [AVX-2844] If recording is paused, then resumed, you must pause again before stopping the recording for files to be merged.
- [AVX-1857] When a text field is selected in Room Designer, arrow keys will move objects in the Room Design.
- [AVX-1702] On rare occasions, Huddly L1 cameras may not be detected by Windows or Wirecast, reboot the VX system to recover.
- [AVX-2806] Active Talkers API does not provide seat numbers in the log.
- [AVX-1440] On rare occasions, Wirecast may go into demo mode after reboot. To recover, verify connection to Wirecast license server.
- [AVX-1520] If log level is set to –1, the logger may crash. It is not recommended to change the log level from 2 unless working with support.
- When 12 first generation 1 Beyond cameras are shared between 2 or more VX2 systems, camera streams may not be stable.

Installer 6.4.1.18 Date: 2025-04-23

New Features

Crestron Platform

- [AVX-2994] Web configuration interface and API now default to using secure HTTPS connections.
    - When updating existing systems, legacy mode is enabled by default. Legacy connection mode can be disabled in the Automate VX installer, or in the Crestron Settings application on Automate VX2 systems.
    - New installations do not support legacy mode.
    - Resolves CVE-2025-47419.

Automate VX

- [AVX-2992], [AVX-2993] Added overlays to program video output to identify when recordings or Debug Mode are enabled and capturing images / video.
    - Resolves CVE-2025-47417 andCVE-2025-47418.

Fixed Issues

Crestron Platform

- N/A

Automate VX software

- [AVX-2995], [AVX-2997] Updated labels in the permissions table and applied permissions to API commands.

    - Resolves CVE-2025-47420.
    - Depreciated Zoom Room Controls, if required last supported version is 6.4.0
- [AVX-2996] Deprecated Call Plugin API.
- [AVX-3176] Resolved issue where the highest numbered virtual mic may unintentionally gate off if it is next to a blocking zone.

Known Issues

- [AVX-3182] When using Yamaha Adecia the AEC REF may not work properly, and switching could occur when the far end is speaking.
- [AVX-3179] If using the SIMPL module (rather than the VX2 hardware definition) and an API is called which the user does not have permissions for, the module will log the user out. Correct user permissions and/or manage error code to log the user back in.
- [AVX-1254] Contact support for guidance with installations using the ATND1061 mic which is currently in beta.
- [AVX-2957] When “Use as PTZ” is selected on i series cameras, Visual AI performance issues may be experienced.
- [AVX-2953] Certain systems with camera counts in excess of (25) may not be able to start Autoswitch.
- [AVX-2226] Chairs rotate with the table even if Lock Chairs is disabled
- [AVX-2229] Intermittently selecting chairs may not work as expected. Deselect and reselect chairs to move.
- [AVX-2216] Changing Scale after adding Furniture will change the position of the furniture. Set scale before adding furniture.
- [AVX-2198] Camera LEDs may become out of sync.
- [AVX-2741] If Live Mode is not disabled, the layout may remain active while performing other actions. Disable Live Mode after use.
- [AVX-1772] Taiden models HCS-4800 and HCS-8600 may ship with incompatible firmware. Contact Taiden support to request firmware compatible with Automate VX.
- [AVX-2323] Calling wake while Autoswitch is active can cause an error.
- [AVX-2163] On systems where multiple ethernet interfaces are active, starting Autoswitch may fail intermittently due to an issue with multicast ethernet adapter issue.
- [AVX-2824] Installing Sennheiser Control Cockpit on the VX system may cause port conflict issues. It is recommended to configure microphones in the system from a different computer.
- [AVX-2865] Cameras may remain frozen if Autoswitch is interrupted and not shutdown cleanly. Restarting Autoswitch will recover.
- [AVX-2844] If recording is paused, then resumed, you must pause again before stopping the recording for files to be merged.
- [AVX-2216] Chairs may not remain in their correct positions if the room is scaled after they are placed.
- [AVX-1857] When a text field is selected in Room Designer, arrow keys will move objects in the Room Design.
- [AVX-1702] On rare occasions, Huddly L1 cameras may not be detected by Windows or Wirecast, reboot the VX system to recover.

- [AVX-2806] Active Talkers API does not provide seat numbers in the log.
- [AVX-1440] On rare occasions, Wirecast may go into demo mode after reboot. To recover, verify connection to Wirecast license server.
- [AVX-1520] If log level is set to –1, the logger may crash. It is not recommended to change the log level from 2 unless working with support.
- When 12 first generation 1 Beyond cameras are shared between 2 or more VX2 systems, camera streams may not be stable.

Installer 6.4.0.49 Date: 2025-03-19

New Features

Crestron Platform

- [AVX-2775] Increase Windows Feature Update Deferral period to 180 days
- [AVX-2954] Removed Get Third Party Software shortcut

Automate VX

- [AVX-883] Face Direction now part of Visual AI
    - Face oriented switching will choose the best camera based off the current angle of a detected face.
    - If the subject turns their head past a certain threshold the system will switch to a new camera with a more head on shot of the subject. Sensitivity settings available.
    - During face oriented switching the system is not limited to the primary and secondary cameras.
    - The face angle is first determined by the primary or secondary camera. The face must be within +/-90° of either of these cameras.
        - If no face is found, the primary or secondary camera will be chosen and switched to and Reframing will start.
    - Not claimed or not live cameras that are +/-110° from the FOV of both the primary and secondary cameras, are all consider viable cameras unless the cameras are within 10° of each other. The camera that is closest to the target will be chosen to evaluate the face angle.
    - This function is dependent upon Autoframing and Reframing being enabled.
    - Any limitations/expected behavior of Autoframing and Reframing will be carried over.
    - Conversation Mode and Side-by-Side are not compatible at this time.
    - If you have a camera which is used for a Context shot or Wide Room view, these cameras should be marked as generic to avoid Face Direction from considering them viable cameras
- [AVX-1851] Furniture Added to Room design.

    - Can now add and modify tables and add chairs, displays.
    - Chairs can be auto filled with Virtual Mics (suggested to do this once entire furniture layout is complete.
- [AVX-1523] Support Layouts on ATEM
    - ATEM model must support Super Source
        - Super Source must be named “SuperSource”
        - Only 1 Super Source output is supported at this time
        - Live mode is not currently supported
    - Camera inputs must be named “Camera 1” “Camera 2” ect.
    - Layouts must first be created on an ATEM
        - Layouts must be named as follows: <layout id>_<'conversation' or cameraNumber>.xml.
        - Once created you must upload the layout to Automate VX
- [AVX-1499] Audio Technica ATUC-50 Discussion system added as a certified mic device
- [AVX-2172] AVX will no longer downgrade camera FW and instead will only upgrade them if needed
- [AVX-1752] Added positional microphones breadcrumbs feature
    - Visually represents historical beam data during Autoswitch Preview
- [AVX-1700] Enhanced PTZ control of Crestron cameras
- [AVX-1695] Log when a config is saved
- [AVX-1534] Updated default room design to a blank canvas
- [AVX-1526] Categorize the camera list
- [AVX-2777] Depreciated Wirecast Virtual Camera Output
    - Disable before upgrading, or contact ATSG for assistance
- [AVX-1746] Blocking zones have an added outline to match the microphone color

Fixed Issues

Crestron Platform

- [AVX-2936] Handle changes due to 24H2 which could cause multiple failures
- [AVX-2194], [AVX-2195], [AVX-2196] Multiple fixes related to calling a scenario while using the VX2 hardware definition

Automate VX software

- [AVX-2796] Title could disappear, restart Autoswtich to recover.
- [AVX-2721] Output Resolutions drop down menu displays incorrect resolutions.
- [AVX-1739] Conversation mode may not use the secondary camera assigned to a VM
- [AVX-1735], [AVX-1737] Fixed issue where using reframing along with Conversation Mode, Autoswitch may occasionally stop and require manually restarting Autoswitch
- [AVX-1542], [AVX-1710] Conversation Mode and re-framing no longer cause Autoswitch to stop or exhibit slow behavior for the second active talker
- [AVX-1686] Corrected Wirecast “newer version available” message popup

- [AVX-1796] Updated the browser icon
- [AVX-2855] Corrected log message for IVProcessor camera address
- [AVX-2809] Can now communicate with more than one control system simultaneously
- [AVX-2786] Fixed "Set Scale" then cancel causing shortcuts to stop working for online Room Designer
- [AVX-2744] Reset Decklink card if it loses configuration after Win11, 24H2 Update
- [AVX-2735] ISO recording and Enable Pause are now mutually exclusive
- [AVX-2238] Upon startup Automate VX will update all control system joins to match the current state
- [AVX-2202] Include independent update of NVIDIA drivers to mitigate NVIDIA security issues
    - (https://nvidia.custhelp.com/app/answers/detail/a_id/5586)
- [AVX-1759], [AVX-2905] Sennheiser TCCM 1.5.4 firmware is now certified
- [AVX-1840], [AVX-2892] Wirecast projects updated, shots were missing or misaligned
- [AVX-2883] Fixed an object synchronization issue which would cause Autoswitch Preview to crash
- [AVX-2821] Fixed issue with Conversation mode and the 3rd active speaker in queue
- [AVX-2902] VX2 symbol no longer allows values above the max support (99)
- [AVX-2841] Legacy camera FW update error message updated
- [AVX-2338] Camera FW update will retry if unsuccessful, this could take up to 15 minutes to complete
- [AVX-2492] Fixed issue where Sublobes from another microphone may cause the parent Superlobe to gate off

Known Issues

- [AVX-1254] Contact support for installations using the ATND1061
- [AVX-2957] i series cameras when “Use as PTZ” is selected, may cause Visual AI performance issues
- [AVX-2953] Camera counts in excess of (25) could cause Autoswitch to not start
- [AVX-2226] Chairs rotate with the table even if Lock Chairs is disabled
- [AVX-2229] Chair selection FB may not work at times
- [AVX-2216] Changing Scale after adding Furniture will change the position of the furniture. Set scale before adding furniture.
- [AVX-2198] Camera LEDs may become out of sync
- [AVX-2741] If Live Mode is not disabled the layout may be present while performing other actions. Disable Live Mode after use.
- [AVX-2721] Output Resolutions drop down menu displays incorrect resolutions.
- [AVX-1722] Taiden models HCS-4800 and HCS-8600 FW incompatible.
- [AVX-2324] Calling wake while autoswitching can cause an error.
- [AVX-2796] Title could disappear, restart autoswtich to recover.
- [AVX-2163] Multicast ethernet adapter issue when using multiple ethernet ports.
- [AVX-2824] Installing Sennheiser Cockpit on the VX could cause port conflict issues.
- [AVX-2865] Cameras could remain frozen if Autoswitch is interrupted and not shutdown cleanly.
- [AVX-2844] If Pause Recording is used and then Recording is resumed, you must Pause again before stopping the recording or files will not be merged.
- [AVX-2216] Chairs may not remain in their correct positions if the room is scaled after they are place.

- [AVX-1857] Arrow keys move objects in Room Design even when a text field is selected
- [AVX-1702] Huddly L1 on rare occasions may not be detected by Windows or Wirecast, recover by reboot
- [AVX-2777] Active Talkers API does not provide seat numbers in the log
- [AVX-1440] Wirecast may go into demo mode after reboot. Check connection to Wirecast license server
- [AVX-1520] If log level is set to -1 the logger may crash. Does not occur in log level 1
- When 12 first gen cameras are shared with 2 or more VX2 units instability of the camera stream may occur

Installer 6.3.0.34 Date: 2024-11-07

Fixed Issues

Automate VX software

- [AVX-2181], [AVX-2197] Improved file handling to avoid Config Access issues
- [AVX-2180], [AVX-1278] Improved Internal Socket Communications and Packet Processing which rectifies an Error in read Task which prevented starting Autoswitch
- [AVX-1840] Wirecast projects updated

Known Issues

- *[AVX-1735], [AVX-1737] If using reframing along with Conversation Mode, Autoswitch may occasionally stop and require manually restarting Autoswitch
- [AVX-1542], [AVX-1710] In some instances, during Conversation Mode re-framing may Autoswitch to stop or exhibit slow behavior for the second active talker
- [AVX-1702] Huddly L1 on rare occasions may not be detected by Windows or Wirecast, recover by reboot
- [AVX-1739] Conversation mode may not use the secondary camera assigned to a VM
- Not all info is populated in Toolbox
- [AVX-1686] Wirecast “newer version available” message may not be suppressed. Only seen on the admin account, dismiss message.
- [AVX-1759] Sennheiser TCCM 1.5 firmware may produce inconsistent positional data, use 1.2.5
- [AVX-1440] Wirecast may go into demo mode after reboot. Check connection to Wirecast license server
- [AVX-1520] If log level is set to -1 the logger may crash. Does not occur in log level 1
- When 12 first gen cameras are shared with 2 or more VX2 units instability of the camera stream may occur

Installer 6.3.0.29 Date: 2024-09-27

New Features

Crestron Platform

- Auto Update via Windows Update has been added (VX2 only)
    - Enabled by default
- Upgrade OpenSSL version from 3.0.13 to 3.0.14
- EULA can now be accepted from the Admin account

Automate VX

- Automate VX software now supported on legacy (IV-SAM-VXx-1B) hardware
    - Platform features and software are not included
- Televic discussions systems are now officially supported
- Camera FW will be automatically updated for all cameras in all Room Configurations
    - i and p series cameras only (minimum supported FW below)
        - i series: 1.0.35
        - p series: 1.0.29
    - IV-SAM-VX2x hardware only
    - A manual trigger is also available
- Conversation Mode and Side by Side now support Autoframing and Reframing*
    - Number of People must be set to 1
- Huddly L1 officially certified (as a Generic Camera)
    - Requires UVC adapter
- Added API which returns the current active talkers (up to two)
    - Requires DB v200.365.004
- i and p series cameras LED will change to red or green, tracking the output state of the system
- Ceiling grid has been enhanced
    - Square and Rectangular tile types can be selected
    - Grid can be enabled/disabled
    - Toggle between Imperial and Metric now resizes to its respective unit
- Keyboard shortcuts have been added to Room Designer
- Export requires Designer Name, Email and Project ID
    - History of the most recent 5, plus the original creator
- The mic list is now grouped by category
- Blocking Zones will now include the color of their parent microphone
- Updated minimum password requirements for web UI user accounts
- Removed support for importing .dprj file formats

Fixed Issues

Automate VX software

- [AVX-1787] Fixed Javascript bug related to Chromium 128.x update
- [AVX-1737] Fixed a crash when two people in Side-By-Side or Conversation mode
- [AVX-1241] Live mode no longer turns off when multiple virtual mics are selected. Instead, the first selected VM's camera persists until only 1 VM is selected
- [AVX-1256] Spamming the Sleep/Wake button no longer causes the output of the system to become out of sync
- [AVX-1263] Updated the message for when saving a scenario to read "Scenario Saved Successfully"
- [AVX-1278] Fixed a state where a virtual mic could get an invalid position
- [AVX-1351] Disabling Autoframing now retains all remaining Visual AI settings
- [AVX-1369] Spamming the wake button no longer produces an error
- [AVX-1460] When in the Admin account intermittent Toolbox AutoDiscovery issue resolved
- [AVX-1280] Titling issue related to titles.txt resolved
- [AVX-1648] No longer gets stuck on default shot in rare occasions
- [AVX-1542] Handle exception when AVX can't connect to a camera
- All applicable Fixed Issues from 6.2 now apply for IV-SAM-VXx-1B

Known Issues

- [AVX-1840] Preloaded Wirecast projects are incorrect, updated files can be obtained from ATSG
- *[AVX-1735], [AVX-1737] If using reframing along with Conversation Mode, Autoswitch may occasionally stop and require manually restarting Autoswitch.
- [AVX-1542], [AVX-1710] In some instances, during Conversation Mode re-framing may Autoswitch to stop or exhibit slow behavior for the second active talker
- [AVX-1702] Huddly L1 on rare occasions may not be detected by Windows or Wirecast, recover by reboot
- [AVX-1739] Conversation mode may not use the secondary camera assigned to a VM
- Not all info is populated in Toolbox
- [AVX-1686] Wirecast "newer version available" message may not be suppressed. Only seen on the admin account, dismiss message.
- [AVX-1759] Sennheiser TCCM 1.5 firmware may produce inconsistent positional data, use 1.2.5
- [AVX-1440] Wirecast may go into demo mode after reboot. Check connection to Wirecast license server
- [AVX-1520] If log level is set to -1 the logger may crash. Does not occur in log level 1
- When 12 first gen cameras are shared with 2 or more VX2 units instability of the camera stream may occur

New Features

Crestron Platform

- Added native symbol support for VX2. Requires DB version 200.355.002.00
- Upgrade OpenSSL version from 3.0.11 to 3.0.13

Automate VX

- Now checks for new minimum camera firmware: 1.0.35 for i-series and 1.0.29 for p-series (NDI 5.6.1)
- Supports mic mute in Teams with P300/IMXRoom and Shure MXA920

Fixed Issues

Automate VX software

- Fixed error on StopRecord
- Fixed missing titles error

Known Issues

- After reboot it's possible that video sources may have a red "?"instead of video. Another reboot resolves this.
- Conversation mode not currently supported with autoframing/re-framing enabled.
- AutoDiscovery in Toolbox will not always work when logged into Admin account.
- Wirecast may go into demo mode after reboot. Check connection to Wirecast license server.
- With titling enabled, Autoswitch may stop with titles.txt "used by another process" error. Disable titling to avoid this.
- If log level is set to -1 the logger may crash. Does not occur in log level 1.
- When 12 first gen cameras are shared with 2 or more VX2 units instability of the camera stream may occur.

Installer 6.2.1.18 Date: 2024-06-07

New Features

Automate VX

- Installer now updates to Wirecast 6.2.1.348. (includes NDI 5.6.1)

Fixed Issues

Crestron Platform

- Corrected race condition that could happen if logging into admin mode right after boot up
- Delayed start of Automate VX after reboot to give NDI streams time to populate

Automate VX software

- Improved NDI stability (no more black frames)

Known Issues

- No native symbol support in this release. Use Crestron Module for control.
- After reboot it's possible that video sources may have a red "?"instead of video. Another reboot resolves this.
- AutoDiscovery in Toolbox will not always work when logged into Admin account
- Wirecast may go into demo mode after reboot. Check connection to Wirecast license server.
- Run Autoswitch in Admin mode first to avoid titles.txt "access denied" error in User Account
- With titling enabled, Autoswitch may stop with titles.txt "used by another process" error. Disable titling to avoid this.
- Error message appears when trying to stop recording. Does not impact recording.

Installer 6.2.1.15 Date: 2024-06-06

New Features

Crestron Platform

- Windows 11 with User and Admin accounts.
- Crestron Toolbox support and Crestron Settings application.
- Auto-update of Windows software only

Automate VX software

- Updated Wirecast projects to support the new hardware I/O and Wirecast version.

Fixed Issues

Room Designer

- Saves correct mic radius if the mic radius isn't changed
- Shot visualization for default shot in Autoswitch Preview

Automate VX software

- Corrected reported IP for API logging
- Improvements to conversation mode with autoframing (still a beta feature)

Known Issues

- After reboot it's possible that video sources will be black or "?". Another reboot resolves this.
- AutoDiscovery in Toolbox will not always work when logged into Admin account
- Wirecast may go into demo mode after reboot. Check connection to Wirecast license server.
- Error message on StopRecord.

- With titling enabled, Autoswitch may stop. Disable titling to avoid this.

Installer 6.1.1.5 (VX software build 6.1.8809.28246) Date: 2024-02-27

New Features

Automate VX package installer

- Includes Wirecast 15.2.1 installer. Upgrades Wirecast if license is not expired.
- Enables options for clean install or upgrade.

Automate VX software

- Added support for new camera models: i12, i20, p12, and p20.
- Added "use as PTZ" check box for when a tracking camera is used in a non-tracking mode.
- Checks camera model and warns if model does not match what's specified in the Room Design.
- Checks camera firmware and warns if camera firmware needs to be updated.
- Added Visual AI: autoframe and reframe.
- Added customization settings for Visual AI: frame padding, face height, max shot width, max persons, reframe sensitivity.
- Added AI Visualizer that shows an approximation of frame padding, face height and reframe sensitivity graphically.
- Added True Position checkbox.
- Added the ability to cycle through objects that are on top of one another in the Room Design (eg cameras, mics, virtual mics).
- Added highlight indication for default shot in AutoSwitch preview when the camera is switched to default.
- When starting Autoswitch in a Room Config where tracking camera is used as ptz, tracking will be disabled.

Fixed Issues

Automate VX software

- AEC reference behavior with TCC M.
- No longer get "undefined" error when deleting a Room Configuration from Room Designer.
- Fixed issue when no name was given for room configuration.
- No longer reveals Noise threshold after undo.
- When changing scenarios while autoswitching, title no longer will disappear and reappear.
- Removed support for dprj import.

Known Issues

- Shot width visualization does not show for default shot in embedded Room Designer. Rely on Live Mode for adjustments.

- Camera switching still occurs if mic mute doesn't actually mute the mic but only the output of the DSP.
- 12x NDI with autoswitch preview on - NDI video will have increasing latency. Reduce canvas and streams to 720p during setup if this is an issue.
- The AI may recognize faces on a display or wall behind the active talker and frame these faces.
- If moving a camera takes longer than 3 seconds, camera switch will occur with initial autoframe disabled, reframe will still occur if enabled.
- With multi-person autoframing, the people shown may be different from different camera angles .
- When mounting cameras inverted, adjust tilt calibration to compensate for slight difference in tilt angle when inverted.
- IP12 and IP20 cannot be inverted when autoframe is enabled with current camera firmware.
- Camera LED remains green when Automate VX is put to sleep. cameras still face backwards and Automate VX output is turned off.
- When using Save and Start AutoSwitch in Room Designer, "the system cannot find the file specified" may appear. Save and Start again to proceed normally.
- Camera focus issues may be more noticable when autoframing is enabled. improvements are expected in future camera firmware release.
- Sennheiser TeamConnect Ceiling Medium will not differentiate noise from voice so if a noise (clapping or tapping on something) is louder than the noise threshold, it will trigger a camera switch.

Installer 5.13.1.11 (VX software build 5.13.8713.29480) Date: 2023-11-16

New Features

Automate VX package installer

- Includes Wirecast 15.2.1 installer. Upgrades Wirecast if license is not expired.

Automate VX software

- Added support for Sennheiser TeamConnect Ceiling Medium (TCC M) including support for Mic Mute
- Scenarios now include Room Configuration, AutoSwitch state, AutoTracker state, Output state, Layout option as well as Shot switch and Camera Aiming.
- Download Support package now saves VX Log, RoomDesigns and Config Files folders in a .zip. Prompts for location on VX system. Saves to Downloads folder when selected on remote system.
- Added Reboot button in Gear/Advanced tab

Room Designer

- Group select of Microphone and Camera devices
- New devices are now added where the origin is, not always top-left.
- Can now delete Room Configurations from RoomDesigner
- Cleaned up Settings tab (removed the remove microphone, camera and default shot buttons)
- DSPs and Shure MXA910 hide Noise threshold since it does not apply for these devices.
- If a VM has the same camera assigned as primary and secondary, when a PTZ override is set or cleared, it automatically sets/clears for both primary and secondary

- Autoswitch preview now highlights Generic cameras and Autotracker when they are the live or prep camera (with green or orange highlights)
- New password entry is not left justified
- Add user now ignores case so Joe, JoE, JOE and joe are all the same. Password is still case sensitive.
- Increased the allowable size for a floor plan to 200 feet wide.

API

- Changed message returned on StartAutoSwitch from “Autoswitch started successfully” to “Received StartAutoSwitch command”

Fixed Issues

Automate VX software

- Reduced the time to start autoswitch in cases where there were a lot of virtual mics
- Blocking zone association to Mic device now preserved when other Mic Devices are deleted
- Improved closing of TCP connections to not re-open after close.

Room Designer

- Can now Remove a block zone from device pop-out panel.

Known Issues

- Sennheiser TeamConnect Ceiling Medium will not differentiate noise from voice so if a noise (clapping or tapping on something) is louder than the noise threshold, it will trigger a camera switch.
- If AutoTracker camera firmware is not updated to version 5.1.105 or higher, the AutoTracker status will not report correctly and Scenario status button will have blue highlight instead of green indicating the status doesn’t match the scenario setting.
- When changing scenarios while autoswitching, title will disappear and reappear.
- With Shure MXA920 1.5.22 and 5.0 Automate VX will occasionally not be able to write to the Microphone. A reboot of the microphone is required to resume. Update Shure firmware to resolve.

Installer 5.12.1.38 (VX software build 5.12.8630.32542) Date: 2023-08-29

New Features

Automate VX package installer

- Includes Wirecast 15.2.1 installer. Upgrades Wirecast if license is not expired.

Automate VX software

- Added sleep/wake and start/stop Output functionality to ATEM
- .vx log now includes API calls made
- .as logs with errors now include error name in log file name
- .as logs with errors are not deleted after 10 days like other logs
- On first login, admin will be prompted to enter a password

- Removed Side-by-side threshold. It's now set to 0 to behave like conversation mode.

Room Designer

- Improved scaling of green and orange camera beams in Autoswitch Preview
- Improved error message with 0.0.0.0 IP address
- Removed "Generic" mic device type. If mic device type is "Unknown" message given that Autoswitch will not start

Fixed Issues

Automate VX package installer

- Copies correct project file for Automate VX Plus system.

Automate VX software

- Changes to switching algorithm to fix freeze frame flash issue on side-by-side shots
- Reduced switch time in cases where reaching PTZ timeout was due to overshooting the target
- Cosmetic improvement: origin size rescales when room diagram is rescaled
- Height adjustment is no longer additive.
- Eliminated delay when switching between scenarios
- It's now possible to add cameras to scenarios when there are more scenarios than cameras.
- Licensing bug fixed. Can now generate and activate a license on 5.12 without upgrading to intermediate 5.x version.

Room Designer

- During AutoSwitch Preview, blocking zones now unhighlight when beam moves away
- Noise threshold setting only displays for ceiling mics for which it is implemented
- Eliminates ghost highlighting of mic device when loading new Room Config.
- Room config names now update properly

Known Issues

- Cannot switch between a room config with only ATEM as production switcher and a room config with only Wirecast more than 5 times without reboot.
- Shure MXA920 may not respond to Automate VX after repeated Sleep/Wake; requires reboot
- In AutoSwitch preview a switch to a generic camera is not indicated with green/orange highlight

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5.11.8580.20169 Date: 2023-07-07

New Features

Automate VX

- Conversation Mode
- Audio-Technica ATND1061 support (beta*)
- New installer (single executable that relinks SDI sources on install)

- Login Attempt Failure timeout

Room Designer

- AutoSwitch Preview
- Ruler
- Undo
- Show/Hide Origin
- Show PTZ FOV limits
- Improved sublobe highlighting
- Min/max values for text fields
- Improved error messages

Fixed Issues

- Fixed config.xml file access issues
- Generic cameras will no longer be controlled in live mode
- Room Designer will display the same version of Automate VX as it does in the settings page.
- Push-to-talk and Conversation Mode Settings checkbox no longer changes status when title is clicked.
- Entering a username with no password will no longer give error.
- Fixed issue with AutoTracker not consistently facing backward when “Sleep” is called
- Removing virtual microphones does not impact sub lobes in an unexpected way.
- General UI Button improvements.
- Camera buttons highlights properly when over ten cameras are added.
- Configuration names for room designs properly save.
- CameraStatus API matches documentation and returns consistent data.
- Z-value reporting in log files when metric units are selected fixed.
- Blocking zone XYZ coordinates no longer fails to update as you move around icon in the room design when using multiple blocking zones.
- Starting Auto Switch from Z layout no longer defaults the user in layout A.
- Z value logs correctly when metric units are selected
- When changing primary and secondary cameras, clears ptz override

Known Issues

- With Intellimix Room, “Command Strings” must be set to ON for use as DSP or Adjudicator
- PTZ Controls cannot be used to create overrides in a new room design until it is saved.
- Two PTZ overrides must be created for one camera if it is used as primary and secondary
- Deleting SDI references in Wirecast may lead to ISO recording error (Sleep API call)
- Noise threshold does not apply to DSPs
- Can’t freeze frame in AutoTracker. If AutoTracker is used in Conversation mode, camera movement will be visible

- Shure MXA920 and Sennheiser TCC2 will stop providing beam location data and require reboot (infrequent)
- Video switcher doesn't connect if changing switchers between room configs until the user saves
- May see freeze frame in side-by-side with push-to-talk mics
- Sleep and Wake are not implemented for ATEM
- Cameras still switch when mics are muted; stop autoswitch when muting mics to avoid this.
- Importing DPRJ files doesn't scale properly

*Beta note: With the Audio-Technica ATND1061DAN, depending on the room layout, occasional camera switching may occur which does not align with the talker location. Enhancements are in progress to reduce or eliminate these occurrences. If this is an issue, the system can be set up to use the Priority Zones in the mic instead of beam location data.

5.9.8475.27930 Date: 2023-03-29

New Features

- None

Fixed Issues

- Resolved issue during Autoswitch that would result in the error: "The process cannot access the file 'C:\Program Files\1 Beyond\Automate VX\Config Files\Config1.xml' because it is being used by another process"
- Updated Automate VX project file to fix an issue that caused titling to not turn off
- Fixed VXN project file issue that caused error in Sleep command

Known Issues

- With Shure MXA920 the camera will occasionally switch to a neighboring seat. To improve accuracy, upgrade to the latest Shure firmware and refer to Shure release notes for known limitations.
- Rarely, the default shot is blurry.
- Removing a microphone in the Room Design through the side navigation causes the graphic of the mic coverage to disappear.
- Blocking zone mic x,y,z values do not update after moving the blocking zone mic to a new position. Clicking it after having moved it will update the values.

5.9.8437.26489 Date: 2023-02-12

New Features

- Support for Shure MXA920 firmware (v. 1.3.289); sets height of mic based on room design
- Noise threshold can be set in Room Designer for Shure MXA920, Sennheiser TCC2 and Yamaha ADECIA. A different noise threshold can be set for each mic in the room.

- Added “Switch Delay” to eliminate camera motion (default value is 200 ms)
- “StartAutoSwitch” will immediately go the default shot if it is enabled
- Titles can be added in RoomDesigner
- Added “reset origin button” to set origin to the top left or the Room Diagram

Fixed Issues

- Seat titles will not go blank if “keep reading text file” checkbox is checked for all titles in “Automate Project.wcst” project file.
- Fixed an issue preventing saving the height of a blocking zone
- Resolved issue with noise threshold on Shure MXA-920
- Config changes in gear icon settings no longer impact MXA920 selection in mic device drop-down
- Room Designer pencil icon is now hidden when AutoSwitch is on
- Clearing the x,y coordinates of a device now results in a setting value of 0
- Microphone coverage slider now updates properly when switching between metric and imperial
- Text fields are now limited to valid range values.
- Fixed issue where you cannot save Room Design or remove cameras without a Default Shot
- Mic coverage default valued is now 36 (not 1)
- Deleting room configs when there are more than 10 now works properly
- Cameras can be removed out of order in Room Designer
- The selected RoomConfig can be deleted. No longer limited to deleting only the last RoomConfig.
- Default shot can be removed in the pop out menu that shows on the right

Known Issues

- With Shure MXA920 the camera will occasionally switch to a neighboring seat. To improve accuracy, upgrade to the latest Shure firmware and refer to Shure release notes for known limitations.
- Rarely, the default shot is blurry.
- Removing a microphone in the Room Design through the side navigation causes the graphic of the mic coverage to disappear.
- Blocking zone mic x,y,z values do not update after moving the blocking zone mic to a new position. Clicking it after having moved it will update the values.

5.8.8333.29004 Date: 2022-12-28

New Features

- None

Fixed Issues

- Camera would close connection to Automate VX when camera reboots or dropped/delayed packets on network.

Known Issues

- Some camera movement can be seen on shot changes
- Occasionally (very rarely) the camera will be out of focus when Automate switches to it. It resolves itself.
- Seat title will randomly go blank
- Can't save height of blocking zone (edit directly in config file)
- MXA920 noise threshold setting doesn't work
- When MXA920 is selected and a setting is changed in the Gear icon settings, the mic type changes. Re-saving the Room Design in the Room Designer fixes this.
- For improved Shure MXA920 XYZ location accuracy upgrade Shure firmware and refer to Shure release notes for known limitations.

5.8.8348.19999 Date: 2022-11-28

New Features

- Made Room Designer the primary place for settings; gear icon is secondary
- Eliminated camera presets; added PTZ override option
- Eliminated "switch time". Shot switch happens when camera arrives at desired position.
- Support for the Yamaha ADECIA to switch to "Default" shot when no one in the room is speaking
- Added configurable "Noise threshold" for Sennheiser TCC2, Shure MXA920, Yamaha ADECIA.
- Added "MXA920 – Lobe" option. Uses lobe gating rather than beam x,y,z location data.
- Added "Scenarios".
- Added configurable sleep/wake and startup options.

- Updated and Simplified Automate VX Web GUI pages
    - Removed all the settings that can now be set in the Room Designer software
    - New Pan, Tilt, Zoom controls on the Cameras page of the Automate VX Web GUI
    - New Scenarios tab with Wake, Sleep and Scenarios buttons
    - Gear icon replaced by Room Design tool so that first entry to settings is Room Designer
    - Default Home page only includes AutoSwitch and Output
    - Admin user can now customize buttons that appear for the admin
    - Camera Setup page is now used to set up Camera positions for Scenarios
    - Improved error reporting for failed connections to include device type and ID
    - Highlighting of Layouts, Cameras and Scenarios now reflects underlying reality
- Room Designer Improvements
    - Added Metric units (mm) and changed imperial units from ft to inches
    - Added "Download Screenshot" button to save a png of the room design
    - Removed Autoconfigure button
    - Set Origin now shows the origin location and then allows you to move it
    - Removed "allocated presets"
    - "Add Default Shot" button with enable, disable and default switch time
    - Added "PTZ Control" to save/clear PTZ overrides
    - Added group select (shift-select) of Virtual Mics to change Camera selection, Z Height and Shot Width for multiple Virtual Mics at a time

    - Renamed “Spare Mic” to “Blocking Zone”
    - Added the ability to remove any Virtual mic, not just the last one added
    - Added “Live Mode
    - Virtual mics can now be moved using the arrow keys
    - Made AutoTracker camera icons orange to differentiate from PTZ cameras
    - Camera orientation can be moved using arrow keys
    - Ctl-S now saves the Room Design Project
    - Mic coverage circles now match the colors of the mic devices
    - Microphone Device list is now alphabetized
    - Added “To Get Started” instructions to Room Config 1
- New Automate VX API support features:
    - “Scenarios”
    - Pan, Tilt, Zoom camera controls
    - Shot status
    - Macro
    - Restart

Fixed Issues

- Resolved issues with shot visualization and mic radius
- Can now “cancel out” of set scale once clicked
- Fixed issue where superlobes would not clear when removing microphones
- Added rate limiter to live mode calls in RD
- Resolved some issues related to over accessing the config files
- Fixed issue where ptz values are called in generic cams
- Fixed shot width loading issue for legacy 1brd files
- Fixed issue where user could be added with no name
- Fixed issue where switching configs wouldn't update the cameras page list
- Added limitations for file size and type for image and project imports in the Room Designer
- Fixed an issue with removing blocking zones from the middle of the mic list in Room Designer
- Fixed the zoom calculation for CAMPTZ-12 cameras
- Fixed issue where blocking zones showed the sublobes of other VMs with the same address

Known Issues

- Occasionally (very rarely) the camera will be out of focus when Automate switches to it. It resolves itself.
- Seat title will randomly go blank
- Shure MXA920: XYZ location will report too high or low or far from speaker.
- When MXA920 is selected and a setting is changed in the Gear icon settings, the mic type changes. Re-saving the Room Design in the Room Designer fixes this.

5.6.8161.21536 Date: 2022-05-06

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