SUMMARY OF FEATURE OPTIONS

aQ Broadcast Video Server (aVS)

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PartCode	Item	Description
AQVSE4AVCINT	aQ Video Server encode profile option - h.264/AVC-Intra (v4 only)	aVS option to enable a specific encoder profile - h.264/AVC-Intra. Applies to v4 firmware only.
AQVSE4DNXOAT	aQ Video Server encode profile option - DNxHD into MXF OpAtom	aVS option to enable a specific encoder profile - DNxHD into MXF OpAtom Applies to v4 firmware only. Note: OP atom is a specialist wrapper which has widely varying implementations. The aVS implementation of OpAtom complies as closely as possible to the MXF standards, but not all systems implement or adhere to the standards in the same way. Also, third-party applications often change their handling of OpAtom files, which means that content which is handled correctly by one version is not recognised by another. In some cases, development work on the encoder handling and/or file format may be required in order to ensure that files generated by the aVS can be opened by third-party applications. In extreme cases, where a third-party application is expecting a non-standard or native implementation of the file format, it may not be possible or feasible to provide support for that application.
AQVSE4DVCPHD	aQ Video Server encode profile option - DVCPro HD (v4 only)	aVS option to enable a specific encoder profile - DVCPro HD Applies to v4 firmware only.
AQVSE4PRORES	aQ Video Server encode profile option - ProRes (v4 only)	aVS option to enable a specific encoder profile - ProResApplies to v4 firmware only. Note: ProRes is a very resource intensive codec. Only two simultaneous streams of ProRes can be encoded on a standard four-port server. If four simultaneous streams are required, the high-throughput Port-only unit, plus a corresponding Store, will be required instead of a hybrid or standard port unit.
AQVSO4AMPIP0	aQ Video Server software option - remote control via AMP (v4 only)	aVS software option to enable remote control of the server via the AMP protocol. Applies to v4 firmware only. Remote connection via TCP/IP connection only.
AQVSO4BMRIP0	aQ Video Server software option - remote control of Blackmagic router via IP	aVS software option to enable remote control of a Blackmagic router connected via IP Applies to v4 firmware only. Remote connection via TCP/IP connection only.

AQVSO4BUNGRA	aQ Video Server software option - graphics bundle: logo, ticker, caption, clock (v4 only)	aVS software option to enable graphics handling, allowing display of logos, tickers, clocks and captions. The aVS can be configured to support multiple graphic layers, typically with one type of element per layer - although multiple layers can support the same type of element. The properties of each graphics element (e.g. size, location, colour, font, image, etc.) are defined through a text-based configuration file. Caption elements (e.g. name-supers / lower-thirds / scoreboards / etc.) allow dynamic text fields to be defined, which can be populated at the point that the graphic is loaded. The v4 GUI provides a simple panel to load and display graphics under manual control by an operator. It is also possible to control the graphics remotely, for instance via QSeries ACC or AirChain automation, but this requires additional options. Applies to v4 firmware only.
AQVSO4CONREC	aQ Video Server software option - continuous recording / record chunking (v4 only)	aVS software option to enable continuous recording - allowing recording on a port to take place continuously, with the content being broken automatically into chunks. The size of the chunks is configurable. The overall recording is absolutely seamless, in that there is no loss of material between the chunked clips, and the process takes place automatically without operator intervention. Applies to v4 firmware only.
AQVSO4DELOOP	aQ Video Server software option - delay loop (v4 only)	aVS software option to enable delay loop handling - recording of material with a defined length of retained content. Once the recording reaches the defined length, the older material is overwritten with the content currently being recorded. This allows continuous delays to be run for long periods of time without filling up available disk space. Applies to v4 firmware only.
AQVSO4PRXYST	aQ Video Server software option - proxy stream, per concurrent use (v4 only)	aVS software option to enable on-demand proxy stream handling - the ability to provide a frame-accurate, low-bandwidth version of a high-resolution clip to an FMC session, or a QNews Client session, across the network. This provides all of the benefits of low-res operation, including the ability to use server functions such as marking in- and out-points, without exhausting network bandwidth and without requiring a separate low-resolution copy to be created from every clip. The on-demand streaming can be initiated from within the FMC application or within the QNews Client application (however note that currently only v1.6. not v2.1, clip handling is supported). This option is licenced per concurrent use. For instance, if three licences are purchased, any three users can view any clip from the media volume simultaneously. However, one of them would need to close their session before another user would be able to begin viewing material. Applies to v4 firmware only. Note - this requires a suitable hardware configuration, ideally based on a Store and Port system, and may involve additional hardware including, potentially, an Intermediate Server.

AQVSO4REMCON	aQ Video Server software option - FMC remote control application (v4 only) per concurrent use	aVS software option to control an aVS port and preview video and audio from a remote PC. Applies to v4 firmware only. One license will allow one concurrent remote access session. The software may be installed on as many networked workstations as required, but only the licensed number of sessions may be run simultaneously. A suitable PC (not included) will be required to run this software: Minimum: Dual core Intel i3 @ 2.0 GHz or equivalent, 4GB RAM Recommended: Quad core Intel i5 @ 2.4 GHz or equivalent, 8GB RAM OS: Windows 7, 8.1 or 10, 32- or 64-bit only
AQVSO4REMOTE	aQ Video Server software option - FMC remote control application (v4 only) per installation	aVS software option to control an aVS port and preview video and audio from a remote PC. Applies to v4 firmware only. One license will allow one remote access session, which provides control over one port at a time. A suitable PC (not included) will be required to run this software: Minimum: Dual core Intel i3 @ 2.0 GHz or equivalent, 4GB RAM Recommended: Quad core Intel i5 @ 2.4 GHz or equivalent, 8GB RAM OS: Windows 7, 8.1 or 10, 32- or 64-bit only
AQVSO4RSSAG0	aQ Video Server software option - RSS feed aggregator	aVS software option to provide RSS feed aggregation for use in conjunction with ticker, scroll or side-panel graphic displays. Note - this requires the appropriate graphics feature to be licensed. The RSS aggregator collects information from multiple specified feed sources and displays new items as they are published. The operator is able to select, approve and (if necessary) edit / moderate items before they are displayed on-screen as part of the target graphic element. Applies to v4 firmware only.
AQVSO4VDCPIP	aQ Video Server software option - remote control via VDCP via IP (v4 only)	aVS software option to enable remote control of the server via VDCP. Applies to v4 firmware only. Remote connection via TCP/IP connection only. An alternative option is available to provide VDCP control via serial RS422 connection.
AQVSOXAKFSW0	aQ Video Server software option - key + fill output handling (software-based)	aVS software option to enable key + fill handling based on 'soft' linking of separate hardware outputs, allowing clips with alpha channel to be played out with the key signal on one video output and the fill signal on another. This option is available only with 2-port and 4-port I/O cards, not with pairs of single cards.This option provides a cheaper alternative to hardware-based key + fill handling, which takes advantage of a dedicated hardware keyer and guarantees frame accuracy across the separate video outputs. The software handling will provide frame accuracy in most cases, but on occasion there may be +/- one frame difference between the outputs. However, in many cases, e.g. in a fast moving transition sequence, this difference - if present - is unlikely to be noticed.

AQVSOXCHAIN0	aQ Video Server software option - port linking (v4 only)	aVS software option to enable chained port operations: provides linked record and playback on multiple ports. This linking is handled by the GUI in this instance – the ports remain separate but can be controlled together.
AQVSOXCONFOR	aQ Video Server software option - conform (v4 only)	aVS software option to allow a new clip to be created based on the items currently loaded into a Sequence, for instance allowing very simple cut-only edits to take place directly on the server without having to move content across to a separate edit workstation. Format restrictions apply.
AQVSOXEDIT00	aQ Video Server software option - edit during recording	aVS software option to enable edit-during-record functionality: adds the ability for a clip which it is still being recorded to be accessed by third-party editing software, in order to enable immediate access to content. This functionality is dependent upon use of specific file and video formats and not all third-party applications can open all types of format supported by the aVS.
AQVSOXFTPCL0	aQ Video Server software option - FTP file access (Client)	aVS software option to enable access from the media store to a remote FTP server: adds the ability to transfer files to a third-party system via FTP. The aVS becomes an FTP client. This licence will permit files to be uploaded from the aVS to an external, third-party FTP server, for instance in order to upload content for use as part of a website.
AQVSOXFTPFA0	aQ Video Server software option - FTP file access (Server)	aVS software option to enable access to the media store via FTP: adds the ability to transfer files via FTP in addition to the standard SAMBA support. The aVS becomes an FTP server.This licence will permit read and write access to the media directory via standard FTP, allowing clips to be transferred to and from the aVS from an external, third-party FTP client application. The FTP access is setup to follow the normal behaviour of an anonymous connection, whereby it accepts a username of “media” with any password.
AQVSOXMARK00	aQ Video Server software option - mark (only)	aVS software option to add the ability to mark in- and out-points on a clip (for single, looped and sequenced playback, subject to clip format)
AQVSOXNULLP0	aQ Video Server software option - Null Port configuration (single port)	aVS software / configuration option to enable a single 'null port' - a virtual I/O port which enables access to the same functionality as a conventional port (for instance reviewing and marking content, creating sequences and playlists and initiating conversions and transfers) but without requiring access to a physical video/audio port. This allows certain operations to take place without interfering with recording or playback for production purposes - so for instance sequences and playlists can be prepared in advance and away from the port on which they will eventually be played. This configuration can only be made on a dedicated Intermediate unit or, in specifically approved circumstances, on a Store-only unit.
AQVSOXPDCLI0	aQ Video Server software option - PDC Port linking (v4 only)	aVS software option to enable chained port operations: provides linked operations on multiple ports via specific PDCHost handling. This linking is handled by back-end server processing in this instance – the GUI functions as though controlling a single port, but the server controls multiple ports simultaneously.

AQVSOXPDMIR0	aQ Video Server software option - PDC Store mirroring (v4 only)	aVS software option to ensure that all content is mirrored automatically between two Stores – any clip added to either Store will be copied automatically to the other, and any clip deleted from either Store will be automatically deleted from the other.
AQVSOXPLAYBK	aQ Video Server software option - playback during record (only)	aVS software option to enable play-during-record functionality: adds the ability to begin playback of a clip while it is still being recorded - specific format restrictions apply.
AQVSOXPLAYLI	aQ Video Server software option - playlist (only)	aVS software option to enable Playlist handling: adds the ability to create, save, load, modify and play out a group of clips, so that multiple clips can be loaded into a port at the same time and then played out individually in any order. Configuration options include the ability to switch between finishing on the last frame of the current clip or automatically loading and cueing the next clip and pausing on its first frame.
AQVSOXPLWRT0	aQ Video Server software option - parallel write	aVS software option to enable write-during-record functionality: adds the ability for a clip which it is still being recorded to be duplicated into a second location. This would typically be used for a copy of a clip to be written to a removable hard drive, so that the original recording remains within the aVS storage and a separate copy of the clip can be physically removed and taken to a different location - e.g. for editing or backup purposes.
AQVSOXPROXG0	aQ Video Server software option - automatic proxy generation (v4 only)	aVS software option to allow clips to be converted to a different video / file format, by creating a new version of the same clip using a specified encode profile, specifically for use in the generation of proxy (typically low-resolution / low frame rate) copies of original high resolution content. This function can either be triggered manually from the Media Asset list or more usually is handled automatically, such that the system creates a second version of every new clip added to the media volume.
AQVSOXSENDTO	aQ Video Server software option - 'send to' process handling (v4 only)	aVS software option to enable 'send-to' process commands, including Send-to-Web (e.g. to transcode to a web-friendly format and then upload via FTP to a web server) and Send-to-Comux (e.g. to transcode to a specific video format and then transfer across the network to a specific upload directory) functions. These combined 'workflow' functions can be issued from any networked FMC or aVS GUI instance.
AQVSOXSEQUAD	aQ Video Server software option - sequence options (only)	aVS software option to enable Sequence options in v4 firmware: this option adds additional options within sequence handling, including transitions between items and multiple loops
AQVSOXSEQUEN	aQ Video Server software option - sequence (only)	aVS software option to enable Sequence handling: adds the ability to create, save, load, modify and play out a sequence of clips, so that they play seamlessly back-to-back from a single port. The option applies to both v3 and v4 firmware, but additional optional sub-features are available within v4 - including transitions and multiple loops

AQVSOXSUBCLP	aQ Video Server software option - sub-clip (only)	aVS software option to enable Sub-Clip functionality: adds the ability to create a sub-clip from a marked portion of an existing clip - format restrictions apply and requires Mark licence. An additional function - Trim - is available as part of this option: this will create a new sub-clip as usual and then delete the original item automatically once it has been released from the player port.
AQVSOXSUBCLV	aQ Video Server software option – virtual sub-clip (only)	aVS software option to enable Virtual Sub-Clip functionality: adds the ability to create a virtual sub-clip from a marked portion of an existing clip - format restrictions apply and requires Mark licence. The aVS system has always had the ability to generate sub-clips - items which exist in their own right as separate files within the media volume. But this optional functionality provides virtual sub-clips, whereby items can be created by reference to the original media as an alternative. For instance, if clip 'A' is 30 minutes long, then virtual clip 'B' could be created which refers to the middle 26 minutes without having to generate a new copy. Importantly, if clip 'A' is deleted, the content relating to 'B' will be retained automatically, so there is no risk that a 'master' item can be deleted, leaving 'orphaned' sub-clips behind.
AQVSOXTFERFI	aQ Video Server software option - transfer handling (v4 only)	aVS software option to enable push transfer operations: allows clips to be transferred to and from a Windows PC, running the aQ receiver agent, triggered from a Media Asset List plug-in running in any networked FMC or aVS GUI.
AQVSOXTRANS0	aQ Video Server software option - transcode (v4 only)	aVS software option to allow clips to be converted to a different video / file format, by creating a new version of the same clip using a specified encode profile. This function can either be triggered manually from the Media Asset list or can be handled automatically, such that the system creates a second version of every new clip added to the media volume.
AQVSOXUPLDYT	aQ Video Server software option - upload process handling (v4 only), YouTube	aVS software option to enable upload process commands, which can assist with transferring content to external sites, for instance by combining operations to mark, convert and transfer media to a third-party location into an easy and straightforward workflow. These combined actions can be triggered from any networked FMC or aVS GUI instance. This specific option applies to upload to YouTube. Other options are available for alternative sites.
AQVSOXVARPLA	aQ Video Server software option - variable speed playback (only)	aVS software option to enable Variable Speed Playback: allows the clip to be played back at a range of speeds, rather than just normal 1x play. This can be used for simple slow-motion playback for instance, although it does not provide frame interpolation.
AQVSOXVPAIM0	aQ Video Server software option - video-pipeline Automated Input Monitoring	aVS software option to enable automated monitoring of individual inputs to a v-pipe server.This option can provide independent monitoring of channel feeds and also (in principle) automatic monitoring of the return feed from each transmitter using a suitable remote feed. This option will provide automatic notification (e.g. via SIAM email alerts) in the event of a problem with any outgoing or return feed, and where possible (at least in the event of an outgoing problem) provide an alternative emergency feed (e.g. by switching to network schedule) automatically without user intervention.

AQVSOXVPLS00	aQ Video Server software option - video-pipeline IP stream output	aVS software option to enable live streaming (primarily via RTMP) as an optional output for a v-mixer or v-pipe server.
AQVSOXVPTXC0	aQ Video Server software option - Video-Pipeline and Tx-Chain handling	Extended control for transmission playout purposes is possible on a standard aVS unit configured to run the 'video-pipeline' components under control of the 'Tx-Chain' functionality. One possible configuration would use a 1U, two-port aVS unit. One of the ports would be used as an input (providing a live source) and the other port would be used as an output. The unit would be configured with a number of internal elements, which will vary based on the exact requirements, but typically one or more internal (virtual) players and one or more logo/filler images. There would be at least two internal (virtual) routers, one which controls the ultimate output (so that any internal element including the live input can be routed directly to the output) and another which would run under the control of the Transmission Chain application and which would be switched based on the requirements of the schedule. Other routing and other types of internal elements are possible, including graphics and branding functionality. The Tx-Chain sequencer allows the user to build simple sequences of clips interspersed with live events, either based on a continuous sequence (so that the next event begins as soon as the current one has finished) or based on hard hit-times – so that an event occurs at a specified time regardless. The benefit of this type of video-pipeline configuration is that the scheduler can automatically use appropriate elements to fill any gaps – for instance, if the final of three pre-recorded programmes finishes slightly early, the tx-chain will switch to a filler slide, or even a generic looping clip on another player, in order to fill the time. Conversely, if a switch back to the live source has to happen at a fixed time, regardless of the current clip, the tx-chain will switch at that given time. There is also functionality to allow a clip to finish at a set time – for instance, if there is some form of countdown clip which has to finish at the top of the hour regardless of how long the previous clip is running. The transmission schedule is built and managed using the standard aVS GUI, either directly on the server itself or remotely on any networked Windows PC. The unit doesn't have to be two-port for this application: for instance, a four-port unit could be used to run two separate tx-chains in parallel or to provide additional live inputs.

This list is not exhaustive – other options are available and new features are added on a regular basis.

Our continuous development programme means that all items are subject to change without notice.