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Versio™
Integrated Channel Playout

Versio™ is the powerful new force in integrated channel playout from Imagine Communications. Going beyond the basic server, graphic branding and automated playout solutions common to the channel- or station-in-a-box segment, Versio brings startling graphics, DVE and mix effects and combines them with leading Imagine Communications automation and server technology. The result is a compelling visual experience, with exceptional media flexibility and the power of advanced control systems that tie into the entire playout workflow, from content creation to archive.

With Imagine Communications automation as its foundation, Versio can interact with a vast array of sales, traffic and billing systems. Likewise, control of your system's routers, VTRs, servers, switchers and other devices is assured, thanks to a device control library that is second to none.

Versio is designed to fit easily into your infrastructure. You can choose to run automation control directly off the Versio chassis, or leverage existing Imagine Communications automation and simply enable Versio. The ubiquity of Imagine Communications automation means your master control operators already know how to use Versio, so there is no learning curve and no confusion when switching or transitioning from existing playout workflows to one based around Versio.

Product Features

- Highly reliable and scalable integrated channel playout solution
- Integrated with industry-leading Imagine Communications automation
- Choice of internal or external automation control
- Choice of internal or external video storage
- Agile, integrated software codecs, supporting a wide range of formats
- High-quality, impactful, multi-layer graphic branding, including support for uncompressed graphics
- 2D and 3D graphics support
- 2x 2D DVE option for squeezeback and picture-in-picture
- Control of live events, as well as clip playout
- Video mix effects, audio channel mixing and audio track swapping
- Configurable for SD/HD capability for maximum channel flexibility
- Control of external devices including router, VTR, third-party graphics and subtitling
- Graphic branded and clean feed output
- EAS support
- File-based and baseband ingest support

- Integration with common traffic systems and asset management via automation
- Automated playlist redundancy strategies with 1:1 system support

Product Details

Video Playback Engine

The Versio video playback engine is based on the Imagine Communications NEXIO® server system. As such, it inherits many of the features of NEXIO. This includes software codecs, back-to-back playout of any supported codec in any resolution with up/down/cross and aspect ratio conversion, AFD support, audio channel routing, closed caption insertion and, new for Versio, the ability to switch between clip playout and a live source.

Versio includes two internal video playback channels that work independently of one another. These channels can play back at the same time or one at a time, adding extra playout flexibility when combined with the Versio master control functionality and automation control.

Codec Support

Versio supports many of the same codecs as the NEXIO server product line and a broad range of other popular broadcast servers. Available codecs and data rates are shown in the table below for SD and HD resolutions. With this flexibility, compliant media types will simply load and play. Back-to-back playout with up, down and cross conversion, automatic aspect ratio conversion and AFD support are part of the package for HD configured Versio servers.

Resolution	Codecs
HD	MPEG-2 Long GOP up to 80 Mb/s MPEG-2 I-frame up to 150 Mb/s XDCAM HD 35 Mb/s XDCAM HD422 50 Mb/s XDCAM EX 35 Mb/s DVCPRO HD DNxHD (optional) H.264 (optional)
SD	MPEG-2 I-frame and Long GOP up to 50 Mb/s DVCPRO25 DVCPRO50 XDCAM (IMX 30/40/50) H.264 (optional)

File Wrappers

Versio can accept clip content in a variety of different wrapper types, enabling it to work with a broad range of server platforms and content storage devices.

Codec	Wrapper types
MPEG-2	MXF OP1a, GXF, MPG, LXF
XDCAM HD 35 Mb/s	MXF OP1a, Sony MXF, GXF, MOV, LXF
XDCAM HD422 50 Mb/s	MXF OP1a, Sony MXF, GXF, MOV, LXF
XDCAM EX 35 Mb/s	MXF OP1a, Sony MXF, GXF, MOV, LXF
DVCPRO HD	MXF OP1a, Panasonic OP Atom, Sony MXF, GXF, MOV, LXF
DNxHD (optional)	MXF OP1a, MOV, LXF
H.264 (optional)	MXF OP1a, LXF
DVCPRO25	MXF OP1a, Panasonic OP Atom, Sony MXF, GXF,MOV, AVI, LXF
DVCPRO50	MXF OP1a, Panasonic OP Atom, Sony MXF, GXF, MOV, LXF
XDCAM (IMX 30/40/50)	MXF OP1a, Sony MXF, GXF, MOV, LXF

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File Interchange

Versio uses the same built-in FTP Server engine used by NEXIO for the import and export of video clips. This enables the movement of material from server domain to server domain, and the import and export of material outside of the Versio server environment via Ethernet. Asset management and/or the NEXIO FTP Client can be used to manage this process. As a result, all supported wrapper and codec combinations, including Panasonic® P2® and Sony® XDCAM/XDCAM HD files (with access to multiple XDCAM decks via Ethernet), can be used. In addition, asset management systems can control movement of media to/from Versio and nearline, archive and compliant third-party server systems.

Versio also uses the same Virtual File System found in NEXIO to enable the import and export of clips in a variety of different wrapper types, including MXF, GXF, MOV, AVI, MPG and LXF.

Graphic elements (layouts) can be imported and exported via simple file copy. Using the provided IconStation™ Offline publishing tools or Inscriber® Connectus® graphic content management system, even the most complex layouts can be reliably copied to the target Versio server.

Graphic Branding Engine

The graphic branding engine that drives Versio goes beyond simple station logos, ratings bugs, lower thirds and "coming up next" style graphics. It brings high-performance capabilities including full screens, complex multi-layer layouts, and 3D and uncompressed graphics support. Other key capabilities, including control for two 2D DVEs, graphic branding of live and pre-recorded content, and support for multiple text data sources and different layouts, enable Versio to create the dynamic on-air look your channel needs.

Managing Graphic Layouts and Elements

Up to five graphic layouts can be loaded into memory and/or displayed on-screen at one time. Each layout can contain many individual elements. These elements can be grouped together so they can be turned on and off. Each group can be controlled uniquely and independently as a "salvo" to turn that particular grouping of elements on or off by the automation system. As a result, a single layout can perform many functions, with the ability to turn parts of the layout on and off at will based on program content, time of day, or whether or not Versio is passing a live event through the system.

Data Sources

Text data can be used to enhance the viewer's experience with real-time information. RSS, ODBC database access and text files can be used to drive the Versio system's real-time rendered output, providing up-to-the-moment sports, news, weather and other information.

Master Control Functionality

The mixing of video, graphics and audio is managed by the Versio master control system. Controlled by automation, all these aspects can be managed to create the exact on-air look needed by a channel.

DVE

Versio supports two 2D DVEs to allow two disk video sources or one live video + one disk source to be combined on air at the same time. Smooth real-time PiP re-sizing enables squeezeback and the ability to roll credits on one show while another show starts.

Disk and Live Sources

Disk sources include any pre-recorded clip elements that are accessible to Versio. One or two disk sources can be played back at a time, and combined with the two DVEs to create a single output channel. In addition, Versio supports a live input. The live input can be any upstream source – router, VTR, switcher, etc. – fed to Versio. The Versio master control system can switch to the live source as needed to enable live events, commercial insertion and breakaways.

Audio Mixing

The mixing of video clip audio and audio-only sources is an integral part of Versio. Featuring a 128x64 mixer, Versio includes the ability for recorded voiceovers, EAS audio and audio routing to be combined to ensure the correct audio arrangement goes to air for the channel.

Video Effects

Versio can perform fades and dissolves. This is possible between the two internal disk video sources, and between one disk video source and the live input. The result is more fluid transitions between program content, as well as stepping in or out of a live event.

Branding and Clean Feed Outputs

Versio delivers a branded output combining all the graphics branding, master control and video elements into a single SDI or HD-SDI output. A second output provides the video and audio aspects, including any DVE functions, without graphic branding. This output can be used to drive other downstream systems to create other channel outputs, or to monitor the entire active video region.

Automation Control Systems

Versio offers two ways to control playout: internal or external automation. Either option offers a highly sophisticated approach to controlling the capabilities of the system. In each case, every aspect of the Versio clip playout, graphic branding and master control is within the system's control.

Internal Automation

Internal automation uses an on-board real-time control engine, which includes the management of the playlist and the ability to control the integrated clip playout, graphic branding and master control engines. In addition, optional external devices can be controlled. These include a router, VTR, external graphics system and external subtitler. Up to four external devices can be controlled using internal automation.

External Automation

External automation control enables a choice of ADC™ or D-Series™ automation. External automation opens Versio to greater device control options and is ideal when largescale systems or centralized operation is desired. Since Versio includes the device control licensing, and is compatible with the latest versions of Imagine Communications automation, it is simple to add it to an existing system or build a system around Versio.

Managing the Playlist

When using internal automation, the playlist is loaded onto the on-board device control system. This list can be appended as needed to ensure continuous 24 x 7 operation. It can be updated by a traffic or scheduling system, which is fed to Versio. The list can be monitored, editing and controlled from the automation client workstation(s) with exactly the same functionality as a discrete automation system. This is possible from any networkattached computer running a Imagine Communications automation user interface. A user interface is not required in order for the playlist to run. It will run for as long as the schedule lasts, or while it has content to play.

When using external automation, the playlist is handled by Imagine Communications automation. The list is centralized and managed as part of a larger multichannel automation system. As with integrated automation, the list can be appended for 24x7 operation, and can be monitored via network-attached client PCs or left to run in unattended mode.

A common user interface allows the operator to monitor and manage multiple channels. These can be a mix of Versio channels and normal channels comprising standard video server, branding and switching products. This provides a single, unified view of all channels going to air that each operator is tasked with managing. It removes the need to learn different user interfaces and control methods, and follow different procedures should an on-air issue occur.

In cases where changes in workflow are desired to take advantage of the strengths that Versio brings to the playout environment, users can take a more natural migration path over time to reach the required end set for operations, rather than a hard cut over to a new workflow. This is due, in part, to the commonality of the user interface employed by many broadcasters around the world, and also the fluidity of workflow engines that interact with Versio.

Traffic/Scheduling Integration

Versio supports a broad range of traffic and scheduling systems and can accept playlists from these systems. Interfaces or filters can be created to enable import from these systems or from other program schedule sources. Versio will generate as-run logs to show what content has aired.

BXF Support

Versio is BXF-compliant through Imagine Communications Live-Update, which enables commercials to be sold right up to the last minute. The Versio automation and video playback systems allow changes to the playlist, even to the currently cued clip. BXF can be used to update the traffic system with as-run status information right after an element has aired, or in batches of elements to enable users to bill quickly and to adjust if issues occur.

Enhanced Workflows

The Versio automation integration allows it to tie directly to asset management systems to create powerful, dynamic workflows. Imagine Communications Invenio Motion media management ties Versio into archive and nearline storage systems, enabling it to leverage file-based QC, transcoding and other systems that further automate how content flows in and out of Versio.

Performance Enhancement

Add any of the following optional media applications to boost the performance of Versio:

Shared Storage Connectivity

As the need for immediate content sharing grows, users can reconfigure Versio to connect to a NEXIO shared storage system via redundant Gigabit Ethernet. This software change allows the server the same level of content sharing as all other NEXIO servers — instant access to all content, all the time, by all users, without restrictions.

Automation Control

Users can choose to control Versio with integrated automation, or connect to an external Imagine Communications automation system. Either approach assures highly reliable control of Versio, with support for other upstream and downstream devices as needed.

When using the Versio internal automation, upstream and downstream devices can be controlled via RS-422. VTRs, routers, third-party graphics and subtitlers in Imagine Communications automation's vast device control library are supported.

Channel Resolution

Versio can be used as SD or HD with up, down and cross conversion support. The output resolution can be set independently of input, and automatically converts nonnative content via its built-in up, down and cross converter to the selected format (1080i, 720p or SD).

Graphic Branding Packages

Versio is offered with standing graphic branding, which supports still and animated graphics, rolls, crawls and 3D graphics, including full-screen graphics. Two 2D DVEs and live input are also available with the advanced branding package.

Baseband Record

In addition to supporting channel playout, Versio can simultaneously record baseband content and store it on the same storage system used for video playout – internal or external storage.

Advanced Codec Support

MPEG-2 and DV-based video codecs are supported as standard. H.264 and DNxHD codecs can be added if needed to add greater codec flexibility.

Redundancy

When using the Versio internal automation, fully redundant playlists can be used to back up air channels and ensure continual operation.

When using external automation, N+1, as well as 1:1 redundancy strategies, can be applied to provide the appropriate level of protection for on-air channels.

Automated Workflows

A wide range of workflows can be integrated with Versio to enhance system performance. These include file-based workflows for video and graphics, QC, transcoding, archive and nearline integration.

Monitoring

Users can connect Versio to the Magellan™ NMS SNMP monitoring system to track hardware performance. Magellan NMS provides a centralized monitoring solution for the whole channel, with support for Imagine Communications and other hardware systems.

Logging

The Magellan Log Server enables application logging, with the ability to monitor an individual device or centralize logging and track the activities of software applications.

Images/Diagrams

Front View – No Bezel

Rear View

Specifications

Specifications and designs are subject to change without notice

Broadcast I/O	
Physical HD SDI Inputs	4 Inputs via HD-BNC
Physical HD SDI Outputs *	4 Outputs via HD-BNC
HD Input/Output Configurations**	[Option] HD-SDI IN 1 - Ingest
	[Option] HD-SDI IN 2 - Live Video In
	HD-SDI OUT 1 - Branded Output
	HD-SDI OUT 2 - Clean Output
	GPU Display Port 1 - MultiViewer Out
Versio SDI Input to Output Latency	9 Frames
HD SDI Embedded Audio In	16 AES per channel
HD SDI Embedded Audio Out	16 AES per channel
HD Formats	1080i, 720p
HD Scan Rates (fps)	60, 59.94, 50, 29.97, 25
SD Formats	525-NTSC, 625-PAL
SD Scan Rates (fps)	60, 59.97, 50
HD SDI Audio Format	PCM (16-bit, 20 bit and 24 bit 48 Khz)
SD Aspect Ratio	4:3
	16:9
HD Aspect Ratio	16:9
Aspect Ratio Conversion	Up/down/cross conversion support
	EIA-608 <> 708 & WST <> OP-47 caption conversion
	AFD aspect ratio conversion
	Port-based aspect ratio conversion
	User-based aspect ratio conversion

* Versio output resolution can be set independently of input or media. Non-native content automatically converts to the selected format (HD: 1080i, 720p or SD: 525/625) via a built-in ARC and up/down converter.

** SDI Input/Output 3 and 4 is reserved for future expansion.

Genlock (Ref In)	
Standard	SMPTE-318M
Input Quantity / Connector	1 HD-BNC
Input Sensitivity	>100 mV
Input Impedance	75 ohms or High-Z (software controlled)
Input Return Loss	>35 dB (25 Hz to 10 mHz)
CMRR	>60 dB @ 60 Hz for a 10 Vpp input signal
Input Types	NTSC/PAL Color black or 2 V sync or Tri-level sync
Audio Processing	
Channels and Formats	8 pairs embedded per I/O channel
	(4 pairs if using 24-bit PCM with SD video)
Processing and Storage	16, 20, or 24-bit PCM, 48kHz
Compressed Audio	Dolby Digital (AC-3) and Dolby E pass-through

SD Video Compression Specification		
Compression	**Profile**	**Resolution and Frame Rate**
MPEG-2 I-frame — 4 to 15 Mb/s	4:2:0	525 @ 29.97 fps
		625 @ 25 fps
MPEG-2 I-frame — 10 to 50 M/s	4:2:2	525 @ 29.97 fps
		625 @ 25 fps
MPEG-2 Long GOP — 4 to 15 Mb/s	4:2:0	525 @ 29.97 fps
		625 @ 25 fps
MPEG-2 Long GOP — 10 to 50 Mb/s	4:2:2	525 @ 29.97 fps
		625 @ 25 fps
IMX — 30, 40, and 50 Mb/s		525 @ 29.97 fps
		625 @ 25 fps
DVCPRO — 25 and 50 Mb/s		525 @ 29.97 fps
		625 @ 25 fps
DVCAM * — 25 Mb/s		625 @ 25 fps
[Option] H.264 (decode only) - 1 to 15 Mb/s		525 @ 29.97 fps
		625 @ 25 fps
* DVCPRO25 is the same as DVCAM in 525 @ 29.97 fps.		

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HD Video Compression Specification		
Compression	**Profile**	**Resolution and Frame Rate**
MPEG-2 I-frame — 50, 80, and 100 Mb/s	4:2:0	1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps
MPEG-2 I-frame — 50, 70, 80, 100, 120, and 150 Mb/s	4:2:2	1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps
MPEG-2 Long GOP — 18, 25, 35, 50, 60, 70, and 80 Mb/s	4:2:0	1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps
MPEG-2 Long GOP — 25, 35, 50, 70, and 80 Mb/s	4:2:2	1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps
DVCPRO HD — 100 Mb/s		1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps
XDCAM HD —35 Mb/s (not available in 720p)		1080i @ 29.97 fps 1080i @ 25 fps
XDCAM HD422 — 50 Mb/s		1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps
XDCAM EX — 35 Mb/s		1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps
H.264 (decode only) – 1 to 15 Mb/s		1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps
DNxHD		1080i @ 29.97 fps 720p @ 59.94 fps 1080i @ 25 fps 720p @ 50 fps

Chassis Specification	
Dimensions (H X W X D)	1.7 x 17.2 x 23.5 in (43 x 437 x 597 mm) Depth with connectors: 25" (635mm) Weight: 32 lbs (14.5 kg)
Efficiency Level Certification	80 PLUS - Gold Level Certified
Rack Mounting	1RU Rackmount (sliding rack rails included)
Supported Rack Depth	26" (660 mm) - 33.5" (851 mm)
Chassis Cooling	6 x 40 mm dual (back to back) cooling fans
Regulatory Compliances	RoHS
System Power Specification	
Power Supply	High effciency power supply with PMBus and I2C [1+1] 700 W/750 W Redundant AC-DC
AC Input	700 W: 100-140 V, 50-60 HZ, 8.5-6 Amp 750 W: 180-240 V, 60-50 Hz, 5-3.8 Amp
DC Output (+12 V)	700 W: 58 Amp @100-140 V 750 W: 62 Amp @ 180-240 V
DC Output (+5 V) Standby	3 Amp
Power Distributor Output	+5 V: 25 Amp +3.3 V: 25 Amp -12 V: 0.6 Amp
System Operating Environment	
Operating Temperature Range	5° to 35° C (41° to 95° F)
Non-Operating Temperature Range	-10° to 60° C (-14° to 140°F)
Operating Relative Humidity Range	8% to 90% (non-condensing)
Non-Operating Relative Humidity Range	5% to 95% (non-condensing)
Operating Altitude	10,000 ft (3,048 m) @ 25° C (77° F)
Motherboard I/O	
USB	4 x USB 2.0 (back panel)
LAN	2 x Gigabit Ethernet Intel I350
COM	1 x RS-232 via DB9
IPMI	IPMI Controller: Renesas SH7757 BMC Dedicated IPMI LAN Interface: 1x RJ-45 Realtek RTL8211E PHY IPMI 2.0 - Virtual Media over LAN IPMI 2.0 - Keyboard and Mouse over LAN
GPU	Nvidia Quadro 4000 1 x DVI-D 2 x Display Port
Platform	
CPU	Intel Romley EN 2 x E5-2630 (6 core, 2.3 Ghz)
System RAM	6 x 4 GB DDR3 1333 Mhz (PC3 10600, 24 GB)
Operating System	Windows 7 64-bit
Disk Subsystems	
Operating System RAID	120 GB partition in SSD RAID-5 volume
Graphics Media Disk-Subsystem	480 GB partition in SSD RAID-5 volume
Server Media Disk-Subsystem	4 x 1 TB SATA RAID-3

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File Import and Export	
Video Files	FTP to and from video clip storage (200 Mb/s)
Graphics	File copy to internal SSD storage
	Publish from IconStation Offline
	(Option) File management via Connectus
Timecode Support	
Input/Output	RS-232, TCP/IP, Imagine clock interface
	Read, generate and write VITC, including discontinuities
Remote Interface	
Input/Output	Eight RS-422 ports
	Up to 4 devices supported under automation control
Control	
Input/Output	RS-422 for external device control
	TCP/IP socket or UDP over Ethernet for video playback, graphic branding and master control
Protocols	Versio native protocol
Graphic Branding	
Bit Depth	32 bit
	24 bit graphics (RGB), 8 bit alpha
Graphic Video Format	Inscriber VIA
	(Lossless compression)
	Custom sizing
	Up to 10 VIA video files running simultaneously
	VIA video files coverage up to 1x screen resolution
3D Graphics	Inscriber G-3D format
	Support 3D scenes from CD4, 3DSMax and Maya
	Supported formats*:
	Filmbox format (.fbx)
	Collada File format (.dae)
	Wavefront Object format (.obj)
Layouts	Maximum of 5 layouts loaded simultaneously
	Multiple individually controllable elements per layout
Rolls and Crawls	Up to 4 rolls and/or crawls**
	Up to 1/3 screen coverage at one time**
Clocks and Stills	No practical limit
Screen Coverage	Up to 2x resolution**
*Ray tracing and custom effects may be lost during import from third party 3D software solutions	
** Supported minimum standard. Limits may vary.	
DVE (option)	
Quantity	Two 2D DVEs
	Two DVEs on screen simultaneously
Live Input	Enabled by DVE option
Sources	One active source per DVE at a time
	2 internal video playback channels
	1 internal video playback channel and 1 live input
Control	User defined templates
	Automation triggering of templates
	Template defined position and motion control
	Template defined crop and video resizing

Ordering Information

Versio Packages	
VER-INT-AUTO-STD	Versio 1RU hardware (Video, GFX I/O and storage) + Versio Internal Automation core control system, 2D and 3D graphic branding, SD/HD playout, standard video file import and purge package (runs on customer provided PC), list redundancy for chassis to enable 1:1 playlist redundancy
VER-INT-AUTO-ADV	Versio 1RU hardware (Video, GFX I/O and storage) + Versio Internal Automation core control system, 1x live input, 2x 2D DVE, 2D and 3D graphic branding, SD/HD playout, standard video file import and purge package (runs on customer provided PC), list redundancy for chassis to enable 1:1 playlist redundancy
VER-EXT-AUTO-STD	Versio 1RU hardware (Video, GFX I/O and storage) + Versio External Automation device control license, 2D and 3D graphic branding, SD/HD playout, standard video file import and purge package (runs on customer provided PC), list redundancy for chassis to enable 1:1 playlist redundancy
VER-EXT-AUTO-ADV	Versio 1RU hardware (Video, GFX I/O and storage) + Versio External Automation device control license, 1x live input, 2x 2D DVE, 2D and 3D graphic branding, SD/HD playout, standard video file import and purge package (runs on customer provided PC), list redundancy for chassis to enable 1:1 playlist redundancy
Graphics Options	
VER-OPT-STDDVEUPG	Upgrade from standard 2D and 3D branding graphics to add 2x 2D DVE + 1x Live Input. Works with VER-xxx-AUTO-STD only
VER-OPT-GFXBLD	Option for creating compelling 2D graphic branding for Versio. Used to manually transfer 2D and 3D graphic branding templates to user selected Versio units
VER-OPT-GFXCCS	Option for Connectus Core System. Automates graphic template distribution. Send new and updated graphic branding templates to groups of Versio units. Runs on customer provided PC. Software supports 100 Versio units
VER-OPT-GFXCC1	Connect 1x Versio unit Connectus Core Server. Requires VER-OPT-GFXCCS
Video I/O Options	
VER-OPT-H264	Option to add H.264 file ingest and baseband playout support. One license per Versio unit
VER-OPT-DNXHD	Option to add Avid DNxHD ingest and baseband playout support. One license per Versio unit. Requires VER-OPT-HDIN option for baseband ingest
VER-OPT-HDIN	Option to add 1x SD/HD baseband ingest port to on board server engine. Requires an ingest application to control ingest and scheduled record operations
EAS (Emergency Alert System)	
VER-OPT-EAS	Option for EAS (Emergency Alert System) support. Includes audio input hardware module

Internal Automation Options	
VER-OPT-TRAF	Option for traffic system interface filter (template) creation. Price is per site per traffic system. One instance covers all Versio units at a site using the specific filter
VER-OPT-INGEST	Option for baseband ingest control. External VTR control (set start and end of message) + add extra metadata and initiate record. Control router and Capture ingest interface. Runs on customer provided PC. Requires VER-INT-AUTO-xxx and VER-OPT-HDIN
VER-OPT-SCHREC	Option for baseband ingest on a known schedule. Calendar interface for reoccurring feeds to be created and conflict resolution is supported to help reduce missed feeds. Runs on a customer provided PC. Requires VER-INT-AUTO-xxx and VER-OPT-HDIN
VER-OPT-EXTSUB	Option for control of 1x external live subtitling device and display of in-vision subtitles via RS-422. Price per Versio unit. Requires VER-INT-AUTO-xxx
VER-OPT-EXTGFX	Option for control of 1x external third party graphic engine via RS-422. Price is per Versio unit. Requires VER-INT-AUTO-xxx
VER-OPT-EXTRTR	Option for control 1x router via RS-422. Price is per Versio unit. Requires VER-INT-AUTO-xxx
VER-OPT-EXTVTR	Option for control of 1x VTR via RS-422. Price is per Versio unit. Requires VER-INT-AUTO-xxx

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