

Versio™ Platform

Industry's only microservices-based, agile playout solution



Versio™ Platform is the industry's first cloud-native, microservices-based and modular playout solution designed from the ground-up for pure-IP, geo-dispersed environments based on commercial off-the-shelf (COTS) hardware.



Powered by Zenium™, Imagine's groundbreaking approach to technical adoption, this next-generation media workflow platform enables your organization to create a custom playout solution that truly fits your needs, accelerate the launch of new services to unlock revenue potential, and adapt more quickly to market dynamics.

The modular nature of Versio Platform enables media companies to select from an industry-leading variety of functionality, operational modes and deployment models, including premises-based, cloud (private or public) or hybrid. Businesses can choose functionality, including playout engine, I/Os, automation and graphics, and can incrementally implement numerous value-added options such as advanced audio track routing, multi-language captioning, UHD and proxy generation, on an as-needed basis.

Breaking new ground in ease of use, Versio Platform features an intuitive, HTML5-based user interface that provides simplified access to content workflows and playlist, enabling media companies to navigate through every aspect of their operations using a single and familiar UI.

Key Features:

- Only cloud-native, microservices-based solution on the market (Powered by Zenium™)
- Unified, intuitive user interface for faster functional flexibility
- Scalable, future-proof, modular solution designed to provide a custom fit to all installations
- Choice of CapEx and OpEx operational models

Key Benefits:

- Supports geo-dispersed operations
- Works on-premises and in private or public cloud deployments
- Supports both baseband and IP, as well as hybrid IP/SDI scenarios
- Supplants traditional monolithic architectures with cloud-native, microservices design that maximizes agility
- Reduces infrastructure costs and virtualizes master control

Details

Core Services

At the core of every Versio Platform design sits Versio Core Services, which offers the basic features required for all Versio Platform deployments. Versio Core Services includes base service layers necessary for operation, such as core management services, database infrastructure layers and an essential service layer, including a messenger service.

Another essential tool of Versio Core Services is Versio Content Portal, which is used for content management for media preparation and distribution (more detail below).

Key Features:

- 3 Channels Proxy Transcode (PTCD)
- 3 user workstation licenses, for use with Versio Content Portal, Versio Automation
- Base services layer: Content service, service manager, trigger service, web-socket service
- One (1) Versio Core Services license is required per site, with additional licenses for redundancy
- Software-only component, with hardware sold separately

Content Portal

Part of Versio Core Services, Versio Content Portal provides a common content management layer for linear media preparation and distribution for playout. The solution manages all the required playout elements within a common database, including video, audio, and still and graphic layout content, and enables triggering of several key workflows to improve operational efficiency. A common file orchestration layer provides storage inventory management and file movement.

Versio Content Portal provides core workflows for file ingest/synchronization and multiple levels of human content preparation tasks — from desktop metadata validation and low-resolution proxy QC, to segmentation and graphic marker placement. The ability to define complexity of these upstream content preparation workflows based on the locations of or types of content being managed provides a level of content protection and status management to ensure efficient downstream playout or branding preparation.

Search and filtering capabilities permit users to quickly and effectively determine and locate material that may require additional preparation tasks to be performed. Direct integration of the Content Portal into both Versio Automation and Versio Graphics provides a seamless user experience, with all content available to all operational teams within a playout media preparation and linear origination solution. Files are automatically moved based upon the requirements of users or channel schedules.

Key Features:

- Simplify operations with intuitive, integrated UI
- Manage clips, graphics, layouts
- Move content with Nexio® Motion™ workflows
- Search and filter
- Preview proxy stream — supports growing files
- Prep using trim and segmenting
- Add markers and QC flags
- View and modify metadata

Playout Service

The Versio Platform Playout engine forms the base of a simple playout package. Leveraging Imagine's industry-leading Nexio+™ library of software-based codecs, Versio Platform enables software-defined applications and delivers exceptional reliability, flexibility and format transparency.

Key Features:

- Can be run in a hybrid SDI I/O or compressed or uncompressed IP deployment
- Supports both receive and transmit of MPEG-2 transport streams
- Supports SMPTE 2022-6 for applications that require extremely low latency

Playout Options available:

Advanced Audio Track Router

Versio Platform Advanced Audio Track Router (AATR) simplifies and, in many instances, replaces downstream audio router needs. ATTR is especially useful when different routing rules must be applied dynamically based on multiple audio profiles present in the media library, or when a customer has complex language requirements.

Captions

This option support file-based caption service import and export, which allows for the addition or replacement of captions. This can be used to support multiple languages and avoid the expense of adding a downstream captions inserter. Various captioning options can be added to support Live Input ANC 608/708, OP42/OP47/WST captions and caption extraction to file.

Proxy Generation

Versio Platform has the ability to view and browse low-resolution proxy files. An optional Proxy Transcoder server automatically converts high-resolution files from an Imagine or third-party storage area network (SAN) into low-resolution H.264 MP4 proxy files. Once transcoded into low resolution, all MP4 proxy files are stored on industry-standard storage arrays where they can be viewed and segmented using Versio Content Portal tools.

Ancillary Processing

Versio Platform offers optional packages for V-Chip insertion, SCTE insertion, ARC processing, and AFD insertion, reducing the need for multiple downstream devices to perform these functions.

Automation Service

Versio Automation is designed from the ground up to support geo-dispersed operations and architected to provide enhanced scalability and modularity. A new Channel landing page provides a simple, high-level overview of all channels and their status. Versio Automation also provides easy-to-navigate clip management and vertical channel workspaces, including advanced secondary event control and horizontal timeline.

Key Features:

- Geo-dispersed operations
- Unified channel management
- Improved interaction
- Web-based applications
- RESTful API layer
- Operational elasticity
- Virtualization
- More redundancy options

Versio Redundancy

The Versio Redundancy option provides a flexible, powerful and scalable redundancy solution that keeps up to five channels mirrored and synchronized. Versio Redundancy includes automatic failover based on real-time health and status monitoring.

Versio Redundancy provides a pivot point where customers can begin moving to the cloud. A prime example is providing disaster recovery for business continuity.

Key Features:

- Up to five Versio instances, regardless of physical location, can be configured in a redundant grouping
- Instances can be promoted/demoted in the redundancy hierarchy
- Schedules, manual edits and user actions are automatically propagated across all instances
- As-run logs are annotated and aggregated to denote parent and instance
- Router control on failover

Graphics Service

Versio Graphics simplifies the graphics creation process, enabling customers to either create or modify templates using an all-new, intuitive HTML interface with full-motion preview and video overlay. Versio Graphics can create markers and simplified macros, or create more complex graphics using direct import from Adobe® After Effects®, as well as add dynamic-data driver content and real-time tags, including content triggering.

Key Features:

- Simplify graphics creation process with new integrated UI
- Replaces IconStation™ layout designer and current web UIs
- Design basic layouts
- Update RT text tags
- Add Macros including preset “ProgSalvos”
- Define actions and commands
- Preview on-canvas or manually control on-air output
- Manage content

Adobe After Effects integration adds:

- Utilization of industry-standard Adobe AE for creation of rich graphics
- Export from AE to Versio™ .MOV embedded XMP metadata. Can include video files or simply point to graphic and video sources
- Real-time text and graphics replacement using AE metadata maintaining size, position, rotation, opacity, and font
- Real-time DVE metadata from AE (size & position) for live/clip sources
- Sophisticated embedded triggers from AE for interactive playback
- Support for advanced expressions in AE for text behaviors and grouping
- Typical use case – End credit squeeze with credit text from external database

Master Control Service

Versio MCS is now available as a component of Versio Platform, and is fully optimized for running in a cloud environment, as well as on standard hardware. Versio MCS provides an intuitive, touchscreen-based master control surface ideal for preparing content for playout or enhancing the look, with simplified control of switching graphics and automation.

In addition to an advanced set of master control solutions that allow for simplified and streamlined workflows from creation to air, Versio MCS provides solutions for single-channel or multiple-channel control.

Versio MCS adds:

- Manual control of Versio advanced switching, graphics and automation
- Single- or multi-channel (group) control
- Control of Versio Advanced Audio Track Router – full audio shuffle support
- UMD and Tally support for Imagine and third-party multiviewers
- Preview and Program thumbnails
- Group Control 1-to-n channels
- Upstream Platinum™ and Magellan™ SDN Orchestrator router control to Versio
- Optional hardware panel
- Full cloud capability

Workflow Service

Within Versio Platform, several fundamental workflows are included in the base Versio Automation and Content Portal packages: retrieving missing material, managing storage capacity, copying a file and archiving a file. If

more advanced functionality is required, these basic workflow processes can be augmented via the addition of the Workflow Service package.

Workflow Service is a file orchestration solution that automates workflow processes within Versio Platform. The Workflow Service package includes more advanced workflow processes to cover several typical transcoding, file transfer and metadata management use cases. Workflow Service is also required for other complex workflows, such as those that require third-party integration components, or for tailored workflow design and deployments.

The Workflow Service package is recommended when you want to:

- Trigger workflows automatically based on new, updated or deleted media in any tracked storage location
- Schedule tasks at fixed times and dates, or on a periodic basis
- Start workflows from external systems such as Imagine Communications automation and media asset management
- Copy, move, delete, rename, check IDs and retrieve metadata from video file servers and other storage
- Archive, restore and transcode
- Monitor storage usage, and automatically email system administrators
- Query the traffic system to extract a purge list
- Import work order lists of material to process
- Design or modify processes with the user interface-based configuration tools (training and support fees applicable)

Ordering Info

Ordering Information

CORE	
VER-CORE-SVC	VERSIO PLATFORM: CORE SERVICE LICENSE FOR VERSIO CENTRAL SERVICES
VER-CORE-ADC	ADC BASED VERSIO INTEGRATED PLAYOUT SYSTEM CORE SERVICES BUNDLE (SOFTWARE ONLY)
VER-CORE-D	D-SERIES BASED VERSIO INTEGRATED PLAYOUT SYSTEM CORE SERVICES BUNDLE (SOFTWARE ONLY)
VER-PLY-OP-CLI3	VERSIO WORKFLOW: CLIENT LICENSE PACK - THREE PACK
VER-PLY-OP-PXY1	VERSIO CONTENT PORTAL: LICENSE FOR SINGLE PROXY ENCODE CHANNEL
PLAYOUT	
VER-PLY	VERSIO PLAYOUT SERVICE: LICENSE FOR SINGLE PLAYOUT CHANNEL 1X
AUTOMATION	
VER-AUT	VERSIO AUTOMATION: VERSIO AUTOMATION ENGINE
VER-AUT-ADC	ADC AUTOMATION CHANNEL, SOFTWARE ONLY. A SINGLE LINEAR CHANNEL
VER-AUT-OP-EX	VERSIO AUTOMATION EXTERNAL DEVICE CONTROL - SEE SUPPORTED DEVICES
VER-AUT-OP-INT	VERSIO AUTOMATION: INTEGRATION SERVICE ALLOWS 3RD PARTY SCHEDULE INTEGRATION VIA BXF MESSAGE EXCHANG
VER-AUT-OP-TRAF	VERSIO AUTOMATION: TRAFFIC TRANSLATOR, PARSE EXISTING TRAFFIC FILE

GRAPHICS	
VER-GFX-BASIC	VERSIO GRAPHICS: BASIC GRAPHICS PACKAGE
VER-GFX-ADV	VERSIO GRAPHICS: ADVANCED GRAPHICS PACKAGE
VER-GFX-OP-UNQ	VERSIO GRAPHICS: LICENSE FOR UNIQUE SD HD BRANDING

MASTER CONTROL	
VER-MCS-SWP	VERSIO MASTER CONTROL: CORE MASTER CONTROL SOFTWARE PANEL - INCLUDES MASTER CONTROL SERVICE
VER-MCS-OP-LIVE	VERSIO MASTER CONTROL: LICENSE FOR MASTER CONTROL LIVE PANEL
VER-PLY-OP-MCS	VERSIO MASTER CONTROL: LICENCE PER CHANNEL, ENABLES MANUAL CONTROL OF VERSIO SWITCHER AND GRAPHICS

WORKFLOW	
VER-WFL	VERSIO WORKFLOW: VERSIO ADVANCED WORKFLOW ENGINE
VER-WFL-OP-CLI	VERSIO WORKFLOW: ENTERPRISE WORKFLOW CLIENT APPLICATION
VER-WFL-OP-DES	VERSIO WORKFLOW: ENTERPRISE WORKFLOW DESIGNER APPLICATION
VER-WFL-OP-PRO	VERSIO WORKFLOW: WORKFLOW THIRD PARTY PROCESSING & QC PLUGIN
VER-WFL-OP-STO	VERSIO WORKFLOW: STORAGE & THIRD PARTY TRANSFER WORKFLOW PLUGIN
VER-WFL-OP-WF1	VERSIO WORKFLOW: ADDITIONAL CUSTOM WORKFLOWS, SERVICES SOLD SEPARATELY
VER-WFL-OP-WF3	VERSIO WORKFLOW: ADDITIONAL 3 CUSTOM WORKFLOWS, SERVICES SOLD SEPARATELY
VER-WFL-OP-WF5	VERSIO WORKFLOW: ADDITIONAL 5 CUSTOM WORKFLOWS, SERVICES SOLD SEPARATELY

REDUNDANCY	
VER-RED-SITE	VERSIO REDUNDANCY SITE LICENSE. ONE PER ADDITIONAL LOCATION

INGEST	
VER-ING	VERSIO INGEST: CENTRALIZED INGEST SERVICE 32 CHANNELS
VER-REC	VERSIO INGEST: LICENSE FOR SINGLE ENCODE CHANNEL 1X

I/O	
IP	
VER-IO-IP-IN	VERSIO PAYOUT SERVICE: LICENSE FOR SINGLE 2022 LIVE IP INPUT
VER-IO-IP-OUT	VERSIO PAYOUT SERVICE: LICENSE FOR SINGLE 2022 IP OUTPUT (BRANDED OR UNBRANDED)
SDI	
VER-IO-SDI-IN	VERSIO PAYOUT SERVICE: LICENSE FOR SINGLE SDI LIVE INPUT, USE WITH VER-IO-SDI
VER-IO-SDI-OUT	VERSIO PAYOUT SERVICE: LICENSE FOR SINGLE SDI OUTPUT (BRANDED OR UNBRANDED), USE WITH VER-IO-SDI
TS	
VER-IO-TS-IN	VERSIO PAYOUT SERVICE: LICENSE FOR SINGLE LIVE COMPRESSED INPUT
VER-IO-TS-OUT	VERSIO PAYOUT SERVICE: LICENSE FOR SINGLE COMPRESSED OUTPUT (BRANDED OR UNBRANDED)
OPTIONS	
AUDIO TRACK ROUTER	
VER-PLY-OP-ALA	VERSIO PAYOUT SERVICE: LICENSE FOR VERSIO ADVANCED AUDIO - LINEAR ACOUSTIC AERO
VER-PLY-OP-ANL	VERSIO PAYOUT SERVICE: LICENSE FOR VERSIO ADVANCED AUDIO - NEILSEN RATINGS
VER-PLY-OP-ATR	VERSIO PAYOUT SERVICE: LICENSE FOR VERSIO ADVANCED AUDIO - TRACK SHUFFLER
VER-PLY-OP-AUD	VERSIO PAYOUT SERVICE: LICENSE FOR VERSIO ADVANCED AUDIO - DOLBY DTS UP DOWN MIX
VANC	
VER-PLY-OP-ANC	VERSIO PAYOUT SERVICE: LICENSE FOR VANC PROCESSING AND INSERTION
CAPTIONS	
VER-PLY-OP-CAP	VERSIO PAYOUT SERVICE: LICENSE FOR VERSIO CAPTION ENGINE
VER-PLY-OP-EEG	VERSIO PAYOUT SERVICE: LICENSE FOR EEG ICAP LIVE CAPTION INSERTION
DOLBY	
VER-PLY-OP-DDD	VERSIO PAYOUT SERVICE. DOLBY D DECODE FROM A SINGLE DIGITAL STREAM TO 5.1 OR 2.0 CHANNELS
VER-PLY-OP-DDE	VERSIO PAYOUT SERVICE. DOLBY D LICENSE FOR 2 OR 6 CHANNELS ENCODE TO A SINGLE DIGITAL STREAM
SCTE	
VER-PLY-OP-DPI	VERSIO PAYOUT SERVICE: LICENSE FOR VANC PROCESSING AND INSERTION

HARDWARE	
VER-HW-MCS-PNL	VERSIO MASTER CONTROL: MASTER CONTROL HARDWARE PANEL, INCLUDES HW, MASTER CONTROL SERVICE & PANEL
GEN 10	
VER-HW-1UG10-[A,B,C,D,E,F,G]	VERSIO 1RU MULTIPURPOSE APPLIANCE. 2x CPU (various performance tiers [A-G], 64GB, REDUNDANT OS SSD
VER-HW-2UG10-[A,B,C,D,E,F,G]	VERSIO 2RU MULTIPURPOSE APPLIANCE. 2X CPU (various performance tiers [A-G], 64GB, REDUNDANT OS SSD
GPU KIT	
VER-HW-GPU-[P400, P600, P4000]	VERSIO GPU KIT - NVIDIA QUADRO [P400, P600, P4000] AND POWER HARNESS FOR HPE 1RU OR 2RU PLATFORMS.
VER-HW-GPU-[P5000, P6000]	VERSIO GPU KIT - NVIDIA QUADRO [P5000, P6000] AND POWER HARNESS FOR HPE 2RU PLATFORMS.
HDD KIT	
VER-HW-HDD-[1T, 2T]	MEDIA HDD KIT, 1X [1TB, 2TB] 2.5" ENTERPRISE, ORDER 1X, 4X, 8X, OR 16X AS NEEDED
SSD Kit	
VER-HW-SSD-[240G, 480G, 960G, 19T, 38T]	MEDIA SSD KIT, 1X [240GB, 480GB, 960GB, 1.92TB, 3.8TB] 2.5" SSD, ORDER 1X, 4X, 8X, OR 16X AS NEEDED
I/O PCI Interface	
VER-HW-2UIO-SDI	VERSIO PLAYOUT SERVICE: SDI PLAYOUT PACKAGE FOR 2RU INCL MA500 UP TO 6IN 6OUT
VER-HW-1UIO-SDI	VERSIO PLAYOUT SERVICE: SDI PLAYOUT PACKAGE FOR 1RU INCL MA500 UP TO 6IN 6OUT
NIC	
VER-HW-NIC-10GI	INTEL 82599 2-PORT 10GBE LOM NIC FOR HP 1RU AND 2RU PLATFORMS
VER-HW-NIC-10GTI	INTEL X540 2-PORT 10GBASE-T LOM NIC FOR HPE 1RU AND 2RU PLATFORMS. INCLUDES 2X CAT-6A CABLES.
VER-HW-NIC-10PTI	INTEL X540 2-PORT 10GBASE-T PCI NIC FOR HPE 1RU AND 2RU PLATFORMS. INCLUDES 2X CAT-6A CABLES.
VER-HW-NIC-1X100PI	1-PORT 100GBE PCIE NIC FOR IMAGINE 1RU AND 2RU. ALL CABLING SOLD SEPARATELY. MAX 56GBPS UNIDIR IO
VER-HW-NIC-1X100PM	1-PORT 100GBE PCIE NIC FOR IMAGINE 1RU AND 2RU. ALL CABLING SOLD SEPARATELY.
VER-HW-NIC-25GM	2-PORT 25GBE LOM FOR IMAGINE 1RU AND 2RU. INCLUDES 2X 25GBPS SFP28, 2X 5M LC-LC OM4 MM FIBRE
VER-HW-NIC-25LM	2-PORT 25GBE LOM FOR IMAGINE 1RU AND 2RU. PURCHASE SFP28 CABLES AND OPTICS SEPARATELY
VER-HW-NIC-2X100PM	2-PORT 100GBE PCIE NIC FOR IMAGINE 1RU AND 2RU. ALL CABLING SOLD SEPARATELY. MAX 112GBPS UNIDIR IO
VER-HW-NIC-2X25PM	2-PORT 25GBE PCIE NIC FOR IMAGINE 1RU AND 2RU. INCLUDES 2X 25GBPS SFP28, 2X 5M LC-LC OM4 MM FIBRE

Images/Diagrams

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