Never Miss an Important Moment

Synamedia's vDCM Recorder is a scalable, software-based product that manages media content recording and streaming across the widest range of OTT use cases and market regulations. It serves all applications from VOD to time-shift TV (TSTV) and cloud DVR (cDVR), and opens the door to monetization opportunities by enabling you to offer value-added services, including server-side ad insertion (SSAI).

Part of the overall adaptive bitrate (ABR) ecosystem, vDCM Recorder works with Synamedia's Fluid EDGE CDN and third-party CDNs worldwide. Given its ease of configuration and high availability, vDCM Recorder enables swift deployment and peace of mind for your mission-critical operations.

Key Functionalities

End-to-end solution

- Includes optional Synamedia vDCM ABR transcoding (H.264 or HEVC)
- Features linear packaging/segmentation, origin server, video recorders, just-in-time (JIT) packaging, DRM interface, and northbound API-to-customer control plane
- Includes optional Synamedia Fluid Edge CDN
- Includes enterprise-grade object storage software (COS) to unify VOD, TSTV and cDVR recordings for on-premise deployments
- Unifies live, VOD, TSTV and cDVR workflows across a common set of packagers

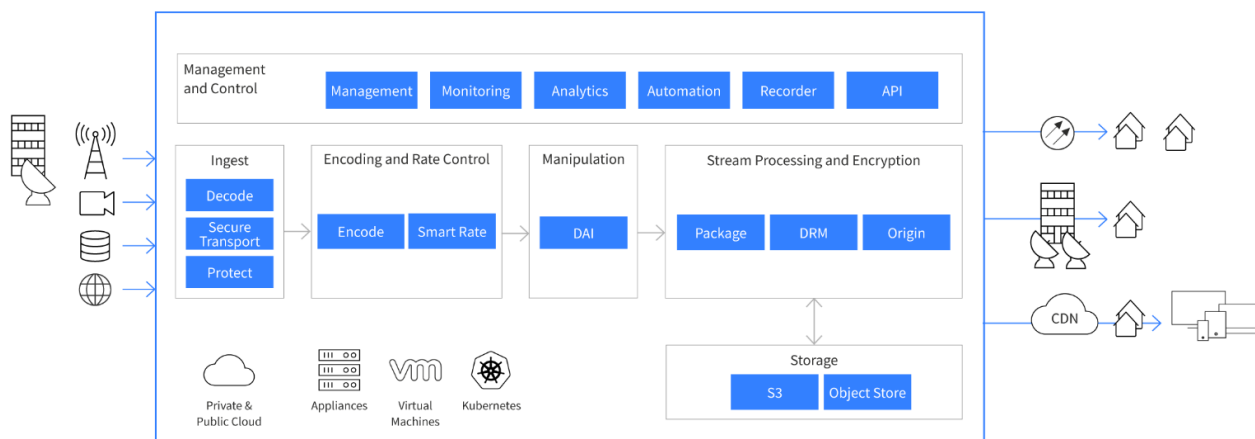### Optimized for on-premises and the cloud

- Supports cloud deployments in AWS and GCP for VOD, TSTV and cDVR, including disaster recovery
- Supports on-premise deployments across a wide range of servers, and fully integrates with HPE, Cisco and Dell
- Supports IPv4 and IPv6 networks, and offers HDD, SSD and NVMe storage options for either on-premises COS storage or S3 cloud storage

Global market coverage

- Deploys in a unique/private copy regulatory environment on-premises in the US
- Deploys in an international common/shared copy regulatory environment either on-premises, in the cloud, or in a hybrid setup
- Supports both regulatory types in the same ecosystem7, channel by channel

Technical Advantages

- Wide range of supported ABR protocols
- In-memory and SSD-based pause live TV support
- Easy output stream configuration
- Rich set of resiliency mechanisms
- Single- and multi-node deployment
- Origin and shield capability, storage and cache redirect
- Optimized low latency with chunked transfer encoding
- Integration with Synamedia Edge Fluid CDN and major CDNs
- High origin throughput up to 42 Gbps depending on hardware performance

Product Specifications

Processing	
Input Formats	• Adaptive transport stream with encoder boundary points (CableLabs-compliant) • Adaptive transport stream with encoder boundary points (CableLabs-compliant) without audio EBP • IDR-based
Output formats	• MPEG-DASH • Apple HTTP Live Streaming (TS and fMP4) • Microsoft HTTP Smooth Streaming • Shared CMAF
Deployment	• Containerized application • Native cloud- and Kubernetes-based • On-premises, cloud and managed services deployment with Quortex Play Max
Video	• H.264 • H.265
Audio	• AAC-LC • HE-AAC v1/v2 • Dolby Digital/Dolby Digital+ • Multiple audio streams per output support
Subtitling Input Formats	• CEA-608/708 • DVB-TXT • DVB-SUB
Subtitling Output Formats	• WebVTT • TTML • EBU-TT-D • SMPTE-TT
External Storage	• HDD (hard disk drives) • SSD (solid state drives) • NVMe drives • On-premise object storage (Synamedia COS) • COS hardware integrated with Cisco M5 (HDD), Dell R750/R760 (NVMe), HPE Apollo 4200 (HDD), HPE Alletra 4120 (HDD), HPE Alletra 4120 (SSD) • AWS S3 • GCP (similar to S3)

Integrated DRMs and Key Management System	• Apple Fairplay • Microsoft PlayReady • Google Widevine • Synamedia VideoGuard • Synamedia Key Schedule and Management • Nagra/Contego • Axinom • Pikselguard • EZ-DRM • Verimatrix • Yotta Labs • BuyDRM (OVH) • Irdeto • Castlabs
Other	• Synamedia clean-up agent capability saving storage costs • Integrated with vDCM Encoder • Integrated with vDCM Packager • Integrated with vDCM Media Scalable Origin • Integrated with vDCM JIT Packager • Integrated with Fluid EDGE CDN
Recording Regulations & Functionality	• US market – unique/private copy (per subscriber recording request of each event) • International markets – common/shared copy (per event per channel) • Channels defined as either unique or common copy • US market – time-shift buffer – live pause functionality for IP device support • International markets – full time-shift TV (catch-up/restart), system-level recordings per event, and personal recordings per event

Publication

Mode	• Pull mode
CDNs	• Integration with CDNs worldwide, including Synamedia Edge, Akamai (MSL 4.0 certified), Fastly, and other 3rd-party CDNs

Monitoring and Management

Configuration GUI/REST API	• Easy output configuration due to protocol-dedicated streaming creation wizard • Automation through REST API • Integrated into Synamedia Video Service Management (VSM)
Redundancy	• Configuration of all system subcomponent synchronization for high availability
Monitoring	• Integrated Grafana dashboards • Wide range of available metrics • Elasticsearch, Logstash and Kibana (ELK) stack support • Synamedia VSM (control & monitoring) • Fully documented open API allowing integration with third-party components

Ordering Information

For ordering information, please contact your sales representative.

Services & Support

Synamedia provides a broad portfolio of services and support to increase your network's business value and return on investment. We take a customer-centric approach, aligning our level of support to your technological requirements and network complexity. That way, you can successfully operate our products and solutions to ensure that you achieve optimal performance throughout your network's life cycle.

Warranty & Contact Information

Read our detailed warranty information.

About Synamedia

Synamedia delivers, enriches, and protects video. Our cloud-native and SaaS solutions empower customers to scale and monetize video services efficiently, ensuring low-latency delivery and exceptional image quality. Our Video Network portfolio includes video distribution, streaming, Edge CDN and multi-CDN management, monetization, ad insertion, cloud DVR (cDVR) and time-shift TV, video compression and processing, and cloud and IP transition.

Next Steps

To learn more or to book a demo, contact us.