Deploy DAA While Maintaining QAM Video Operational Independence

Cable multiple system operators (MSOs) traditionally have desired operational separation between HSD- and QAM-based video networks. Synamedia's Aux Video Core (AVC) enables you to maintain this separation when migrating to distributed access architecture (DAA).
AVC integrates with legacy video controllers and SRMs to ensure synchronization of video configuration with DAA nodes. Built on DAA-static pseudowire architecture, the product comprises two components that support its two primary functions – DAA node control and DEPI forwarding.

• Aux Video Core Controller: Based on Synamedia's industry-leading VSRM platform, the AVCC is responsible for DAA node management and the provisioning of pseudowires on the traffic engine.

• vDCM Traffic Engine (TE): Based on Synamedia's industry-leading vDCM video multiplexer, the vDCM TE is responsible for generating the L2TPv3 pseudowires that carry video.

Key Functionalities

Comprehensive support

- Enables independent scaling of video and DAA node management, particularly attractive for broadcast services where a small number of traffic engines can serve many subscribers independent of the number of DAA nodes
- Allows for optional "lights out" GCP resource manager nodes to scale the number of DAA nodes supported by a single AVCC instance
- Operates in any QAM-based video system independent of CAS
- Easily configures with standard interfaces to connect with external servers and resource managers
- Runs independently in AVCC-only mode or ERM-AVCC combination mode on a deployed VSRM to serve as an SDV server and/or VOD ERM
- Simplifies node configuration by exclusively using the GCP protocol
- Meets all AVC-relevant CableLabs RPHY and FMA specifications for static pseudowires (e.g. DEPI L2TPv3 control plane is not required for static PW, and therefore, not supported)

Full redundancy

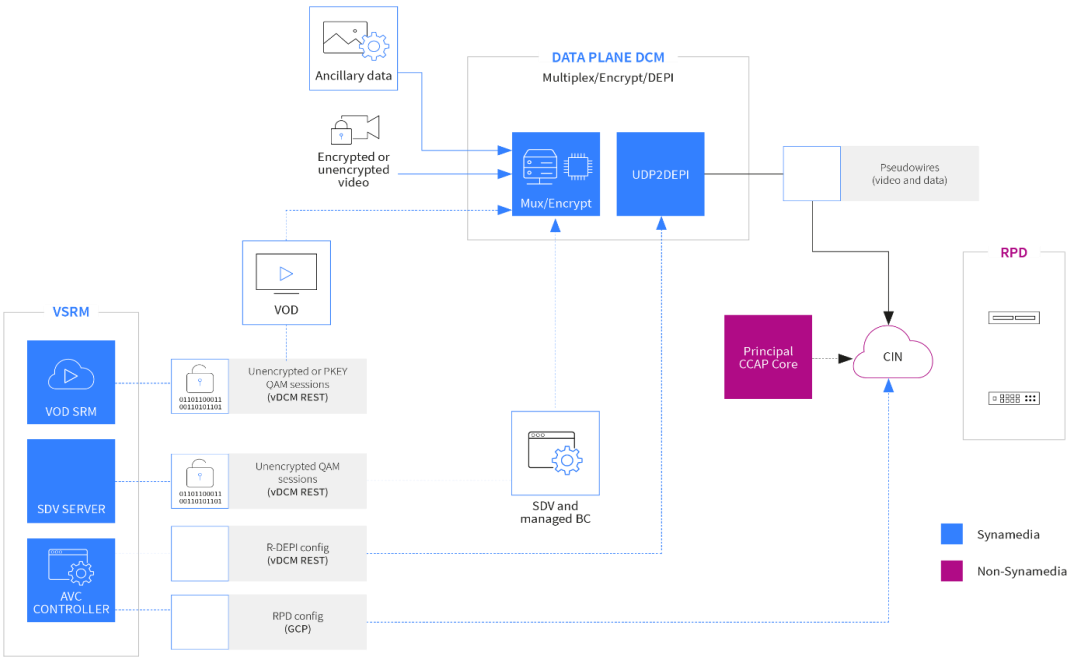
- AVCC
  - 1:1 HA with fast switchover to ensure no communication loss to DAA node during failover
- VDCM Traffic Engine
  - 1:1 active/standby
  - N:1 with accelerated fast recovery when integrating with BGP EVPN

Multiple interfaces

- AVCC
  - SNMP
  - REST
  - GCP
  - Web UI
  - GQI (ERM)
- vDCM TE
  - SNMP
  - REST
  - L2TPv3 data plane
  - GQIv1 (EQAM)

Technical Advantages

- New application incorporation of the following platform services:
  - SNMP
  - Web interface
  - High availability N for M redundancy
  - Run-time upgrade without service interruption
  - Real-time graphic display of resource usage
  - Policy-based resource failover
  - Resource management, monitoring and reporting
- Service Assurance™ active service protection via stream monitoring and rerouting
- Business-policy control of bandwidth allocation
- Bilingual, simultaneous support of various SDV protocols for transitional scenarios and legacy



Hardware Specifications

While Synamedia's Aux Video Core Controller is hardware-agnostic, customer-selected hardware must include the following minimum requirements:

Description	CPU Cores	Memory (GB)	Hard Drive Space (GB)
SDV (64-bit environment)	2	12	80
Other applications/configurations	4	24	250

Ordering Information

For ordering information, please contact your sales representative or account manager.

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.

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.

Warranty & Contact Information

Read our detailed warranty information.

Next Steps

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