

Centrally Manage Digital Video and Audio Service Operations

Synamedia's Video Network Service Manager (VSM) manages service and media providers' distribution video and audio system operations. A centralized interface for your streaming, satellite, cable, and telco operations, VSM configures, controls, monitors, and ensures high availability of all Synamedia video network products and applications.

VSM is an ideal fit for 24/7 streaming and broadcast headend operations requiring a service-oriented management solution. It enables you to manage audio and video services and map them onto monitored resources whether run on appliances – bare metal, virtualized or orchestrated containers – or as software instances.

Key Functionalities

Centralized operations

- Single interface for all operations (configuration, monitoring, and control)
- Local and geo-distributed systems
- Web UI and REST API interfaces
- Central license management (node-locked and floating modes)
- Embedded help and tool tips

Service configuration

- Streaming and linear workflows
- Configuration wizards with consistency controls
- Configuration templates
- Offline configuration
- Scheduled updates
- Input database with a wide range of formats

Increased uptime

- Pools of processing resources
- Density management optimizing the load distribution on resources
- 1+1 and N+M failover modes
- Service redundancy through automated failover capabilities
- Automatic and manual triggers
- Ecosystem management and reconfiguration for failovers (SDI routers, output switches)

Monitoring

- System and application health monitoring
- Alarm correlation
- Multi-criteria filters
- Topology graphical view
- Service flow monitoring
- Grafana dashboards displaying system and application metrics

Technical Advantages

- Centralized operations for Synamedia Video Network products
- Service-oriented management
- Pre-defined lineups supporting streaming and linear workflows from signal acquisition to output delivery
- Input abstraction from service configuration
- Optimized availability with pools of resources and failover management at workflow level
- Comprehensive monitoring of system and applications with myriad metrics and Grafana dashboards
- Integrated scheduler and license server
- Support of Synamedia 3PP ecosystem devices (SDI matrixes, IP switches)
- Flexible deployment patterns (bare metal, VM and containers on K8S infrastructure)

Product Specifications

Access and Interfaces

User Authentication	<ul style="list-style-type: none"> Local, LDAP active directory, or Radius authentication
Graphical User Interface	<ul style="list-style-type: none"> Centralized operations with web UI access Embedded help Compatibility with former desktop client
Northbound Interface	<ul style="list-style-type: none"> REST API for control and monitoring SNMP trap forwarding
Southbound Interface	<ul style="list-style-type: none"> IIOp, REST, HTTP SNMP Leitch

Service-Oriented Configuration

Workflows	<ul style="list-style-type: none"> Streaming, broadcast and IPTV use cases Multi-processing stage workflows (Xcode, mux/package) Lineup management supporting service configuration variants Lineup organization (folders, filters, list, and tile views) Wizard and template-based configuration Consistency controls
Processing Templates	<ul style="list-style-type: none"> Linear Xcode, ABR Xcode Audio Stream protection, service protection Packaging
Other Templates	<ul style="list-style-type: none"> ABR encryption Origin storage Alarm templates
Sources	<ul style="list-style-type: none"> Scan and import Acquisition rules

Resource Management

Synamedia Products	<ul style="list-style-type: none"> DCM Virtualized, DCM (ASI, GbE cards), DCM Gateway D9034, D9036, D9096, D9094/D9094SE encoders D9887, D9854, D9846, D9850, D9800, D9896 IRDs Media Edge Gateway JITP Controller, ABR-E
3PP Ecosystem Devices	<ul style="list-style-type: none"> Nvision NV9000 Router Controller Snell & Wilcox Pro-Bel Halo Video Router Imagine / Harris Panacea / Platinum Video Router Grass Valley Sirius / Vega Video Router Evertz 7880 ASI Switch Enensys ASIIP Guard Newtec USS0202 Redundancy Switch Cisco IP routers and switches Newtec M6100 Broadcast Satellite Modulator

Monitoring

Alarms & Events

- Built-in alarm collection and representation, multi-criteria filters
- Service status representation
- Alarm correlation (service/resource)
- Service flow (graphical view from source to output)

Metrics

- System and application Grafana dashboards

Automation

Scheduling

- Built-in scheduler for configuration and CA
- Event management for contribution use cases
- Offline preparation of target configuration

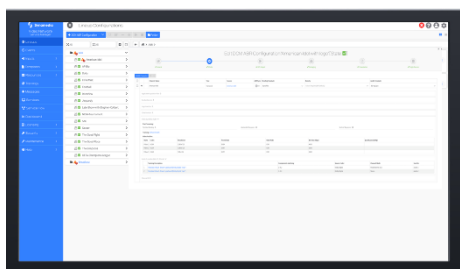
System

Operating System

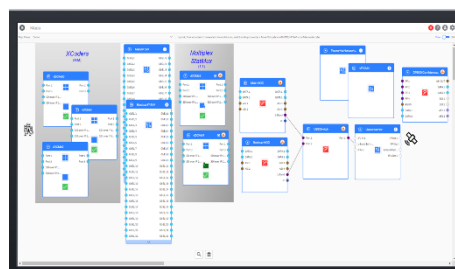
- CentOS/RHEL 7.2 – 7.9, 64 bits
- Oracle Linux/RHEL 8.3 – 8.8, 64 bits
- RHEL 8 and 9.2, 64 bits

Recommended Requirements

- 4 vCPU, 8 GB RAM, 60 GB of available hard disk space, 10/100/1000 Ethernet network adapter



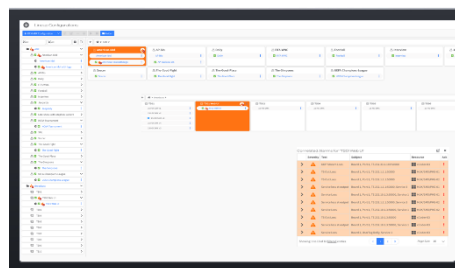
Service Configuration



Topology



Grafana Dashboards



Correlated Alarms

Ordering information

Description	Part Number
VSM appliance (includes VN-Node and SW), single node, or HA cluster options	<ul style="list-style-type: none">• VSM-A
VSM software license (CAPEX)	<ul style="list-style-type: none">• VSM-APPS
VSM software subscription (OPEX)	<ul style="list-style-type: none">• VSM-SUBSCRIPT

Configured Model	Platform	Processor	Drive	Memory	Network Interfaces	Power Supply
VN-NODE-S	SYNA-UDP	2x Intel® Xeon® Silver 4110	2x 1.2TB HDD	8x 8GB DDR4-2666 1Rx8 ECC	Four onboard copper gigabit Ethernet ports - 10/100/1000 Mbps	2x 750W redundant

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](#).