

Synamedia Video Network Service Manager Overview

The Video Network Service Manager (VSM) is Synamedia's management product dedicated to the operations of Service and Media Provider's Streaming, Satellite, Cable and Telco distribution video and audio systems.

The Video Network Service Manager is the centralized interface for all operations. It configures, controls, monitors, and ensures the high availability of Synamedia Video Network Products and Applications.

The product ideally fits streaming and broadcast 24/7 head-end operations that require a service-oriented management solution.

The Video Network Service Manager system allows to manage audio and video services and map them onto monitored resources whether they are running on appliances or as software instances (bare metal, virtualized, or orchestrated containers).

Key Benefits

The Video Network Service Manager system provides a complete solution for end-to-end management of digital video and audio service platforms. It is designed to:

Simplify Operations

The user-friendly Web UI is the centralized interface for all operations. It facilitates the service-oriented configuration with templates and embedded consistency controls. Off-line preparation and Bulk actions reduce the amount of actions and human errors in production.

Increase Uptime

The management of service redundancy through automated failover capabilities reduces the impact on the service by rerouting or reconfiguring services in the event of a failure. Extensive fault and alarm management makes troubleshooting easier with alarm correlation and filtering features.

Optimize resources

Flexible resiliency modes (1:1, N:M) allow to optimize the usage of resources. Density

parameters are considered during services allocation onto resources. Floating licenses.

Product Features Highlights

- Service-Oriented Management
- Lineup Configuration, with templates and wizard-based UI
- Live streaming, Broadcast statmux and CBR, TS processing workflows
- Sources and Inputs, Acquisition rules
- Resources Pools
- Service resiliency 1:1, N:M
- Messages (alarms, events)
- Topology Manager
- Service Flow View
- Grafana dashboards
- Scheduler, bulk actions
- License Server
- Web UI and REST API interfaces
- Supports Synamedia VN apps and 3PP ecosystem devices (SDI matrixes, IP switches)
- Linux based SW, deployed on bare metal, VM, containers on K8S infrastructure



Product Specifications

Access and Interfaces	
User authentication	<ul style="list-style-type: none"> Local, Radius, LDAP Active Directory based authentication
Graphical User Interface	<ul style="list-style-type: none"> Centralized Operations with Web UI access Embedded help Compatibility with former Desktop client
North Bound Interface	<ul style="list-style-type: none"> REST API for control and monitoring SNMP trap forwarding
South Bound Interface	<ul style="list-style-type: none"> IIOIP, REST, HTTP SNMP Leitch
Service Oriented Configuration	
Workflows	<ul style="list-style-type: none"> Streaming, Broadcast, and IPTV use cases Multi-processing stages workflows (Xcode, Mux/Package) Lineups management supporting service configuration variants Lineups 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"> Sources scan and import Acquisition rules
Resources 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
3PP ecosystem devices	<ul style="list-style-type: none"> Nvision NV9000 Router Controller Snell&Wilcox Pro-Bel Halo video router

	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Built in alarm collection and representation, Multi-criteria filters • Service Status representation • Alarm correlation (service / resource) • Service Flow (graphical view from the source to the output)
Metrics	<ul style="list-style-type: none"> • System and Application level grafana dashboards
Automation	
Scheduling	<ul style="list-style-type: none"> • Built-in Scheduler for Configuration and CA • Event Management for Contribution Use Cases • Offline Preparation of target configuration
System	
Operating System	<ul style="list-style-type: none"> • Minimum CentOS/RHEL 7.2 - 7.9, 64 bits • Recommended Oracle Linux/RHEL 8.3 - 8.6, 64 bits
Recommended requirements	<ul style="list-style-type: none"> • 4 vCPU, 8 GB RAM, 60 GB of available hard disk space, 10/100/1000 Ethernet Network Adapter

Ordering Information

Description	Part Number
VSM appliance (includes VN-Node and SW). Single node or HA Cluster options.	VSM-A
VSM Software License (capex)	VSM-APPS
VSM Software Subscription (opex)	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.](#)

Learn more

[Synamedia's video network solutions](#)

For more information, contact your account manager or [visit our site](#).

About Synamedia Video Network Solutions

Synamedia offers a comprehensive media streaming solution for content, service and OTT providers to deliver at scale video. Part of Synamedia's end-to-end video network portfolio, the solution is anchored by a converged platform enabling the delivery of linear and non linear channels via satellite and/or terrestrial, cable and OTT networks. Our cost-effective solution leverages network control, reception and managerial capabilities to ensure the reliable delivery of premium quality video through flexible transmission options tailored to your working environment.