

# Take control of every aspect of the secure distribution of your valuable assets from one place

Distribute video, audio, and data securely to a large receiver population with the Synamedia® PowerVu® Network Center solution. Synamedia's PowerVu Network Center is the core of the Synamedia PowerVu Media Distribution product portfolio, designed to meet the digital content distribution needs of programmers, private networks, other network operators, and individual users. Synamedia's PowerVu Media Distribution solution is an end-to-end offering enabling content distribution reliably and securely to affiliates over satellite and/or IP. It provides complete control and monitoring over your software and/or hardware receiver endpoints while protecting content and revenue.

The solution supports multiple deployment models – be it on-premises, private cloud, or public cloud infrastructure – providing the flexibility to navigate today's rapidly evolving distribution environment better.

## Key Functionalities

### Security

- Gives the content owner complete control over what transmitted content the Synamedia PowerVu IRD user can access.
- Synamedia PowerVu Network Center offers a reliable, field proven CA system.

### Decoder Management

- With the Synamedia PowerVu Network Center, you can use the Synamedia PowerVu Management Console to control where and how your information is being received and processed at the managed endpoints.
- The Synamedia PowerVu Network Center addresses all Synamedia PowerVu receivers in the field providing all the information necessary to address Synamedia PowerVu receivers for specific service authorization and receiver control.

### Event Management

- Synamedia PowerVu Network Center provides a PNC Event Management system with enhanced views like calendar view, Event list view, and TimeLine view to extend and change events on the fly from the UI.
- For advanced blackouts and complex live event management, Synamedia offers the Live Event Controller which offers the ultimate flexibility to schedule content replacement across the receiver footprint.

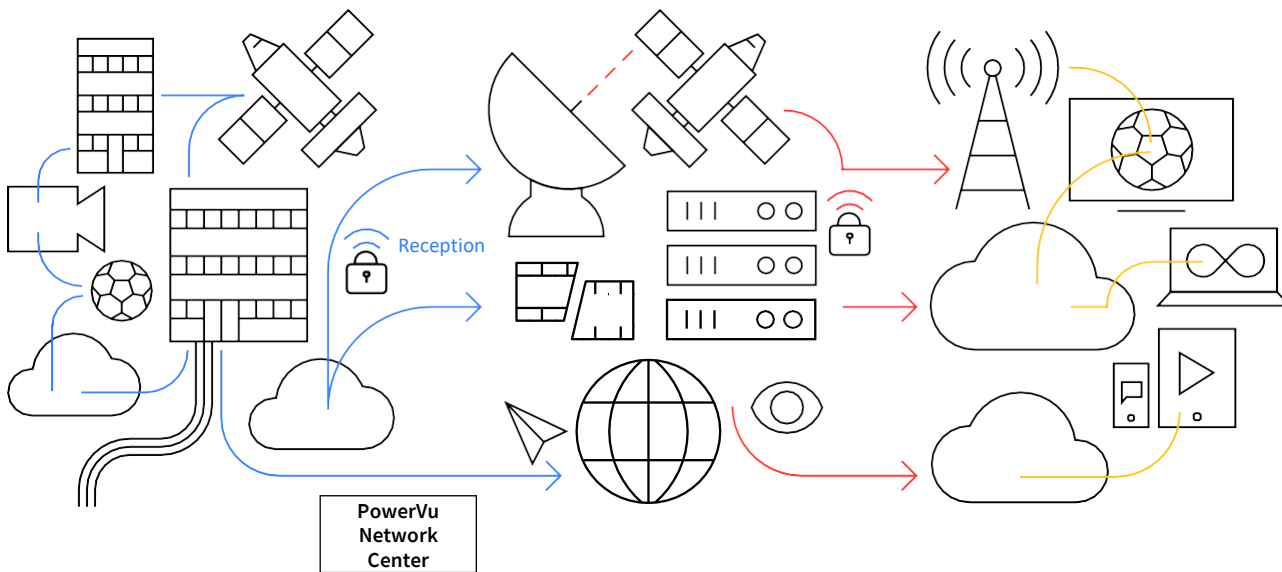
### Endpoint Monitoring

- Synamedia PowerVu Network Center provides an optional PowerVu Insight component which allows for monitoring and analytics of your receiver endpoints. The system uses secure communication channels to the endpoints, that have IP two-way communication enabled.

## Technical Advantages

- Ensures secure and reliable distribution of content over satellite and/or IP, including ABR delivery
- Provides full conditional access (CA), control and monitoring over all endpoints
- Offers best-of-breed cloud-native encoding, including HEVC, multiplexing and PowerVu encryption
- Leverages large global footprint of professional receivers
- Proven distribution solution set for Content Providers and Broadcasters
- Deploys on-premises or on private and public cloud infrastructures
- Comes with the Synamedia managed and customer operated VIVID PowerVu Workflow as a service (WaaS) offering.

## Video Network Chain



Distribution

Processing

Delivery

## Product Specifications

System Management	
Industry Standards	• MPEG-2 DVB, AVC (H.264), and HEVC
Commercial conditional access	• PowerVu standard (legacy IRDs) and AES128
Scrambling	• DES, DVB or Simulcrypt
Number of signals or TS	• 4 (with traditional DCM PowerVu MUX architecture), Full TS flexibility for the current (v) DCM architectures
Multiplexer Control	• ASI and GbE interfaces
Modulator Control	• Supported for Newtec M6100 modulator platform
Digital Program Insertion (DPI)	• Supported
Email alerts for alarms	• Supported
Data replication	• Optional
Network Time Protocol synchronization	• Supported
System Control Functions	
Program and event scheduling	<ul style="list-style-type: none"> <li>• Bandwidth management</li> <li>• MetroMux software</li> <li>• Password privilege system</li> <li>• Diagnostic logs</li> <li>• Transaction logs</li> <li>• Automatic and manual database backups</li> </ul>
Platform Support	
Client/server Architecture	<ul style="list-style-type: none"> <li>• Server: x86 compute platforms, Client interface: Windows 7 and up</li> <li>• Minimum x86 Config: Single 2.4GHz 4core CPU, 2x32Gb Mem, Dual 300Gig Hard Drive Storage, RAID</li> </ul>

	<ul style="list-style-type: none"> <li>• 2 Ethernet ports, CentOS/RedHat/Oracle</li> <li>• Multiuser remote access</li> <li>• Remote access</li> <li>• Simple Network Management Protocol (SNMP) interface for monitoring: optional</li> <li>• Full REST-APIs for monitoring and control</li> </ul>
<b>Decoder Control Functions</b>	
Functions	<ul style="list-style-type: none"> <li>• Full Decoder database with reporting options: 250,000</li> <li>• Tier assignment: 216</li> <li>• Blackout and spotlight codes</li> <li>• Fingerprint Trigger</li> <li>• Force Tuning</li> <li>• Homing Channel</li> <li>• Remote Control Outputs</li> <li>• Service Replacement: Scheduled, Conditional Access and cue-trigger</li> <li>• Satellite code and license download to receivers</li> <li>• Decoder lock-out of front panel</li> <li>• Decoder group and search capability</li> <li>• Visual IRD management, in-band control</li> <li>• Advanced Input Control (AIC): ability to group multiple RF signals which allows Synamedia endpoints to switch channels between RF inputs</li> <li>• Optional Live Event Controller                         <ul style="list-style-type: none"> <li>• Ability to force tune endpoints to last LEC event</li> </ul> </li> </ul>

## Ordering Information

	Part Number
vPNC x86 based system (vPNC)	R-VPNC-APPS
vPNC Platform license (one per instance)	L-VPNC-PLATFORM
vPNC V18.x software	SW-VPNC-V18 SW-VPNC-UPG-V18
vPNC PowerVu Base Encryption function	L-VPNC-LIC-PVU
vPNC PowerVu AES128 Encryption function	L-VPNC-LIC-AES128
vPNC PowerVu Simulcrypt Encryption function	L-VPNC-LIC-SIMUL
vPNC Feature Package 1 (Metromux, DPI, SNMP)	L-VPNC-LIC-PKG1
vPNC Feature Package 2 (DataRep/HA, Xcoder Ctrl, AdTier, OSD)	L-VPNC-LIC-PKG2
vPNC Feature Package 3 (LEC, PNC Sat Dis Rec, Db Segmentation)	L-VPNC-LIC-PKG3
vPNC SW Feature Support (custom)	L-VPNC-LIC-SUP
Contact your Sales team for help with vPNC upgrades	

To place an order or download software, visit the Synamedia Ordering Portal Home Page or contact your Synamedia 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.](#)

Learn more about Synamedia's [video network distribution solutions](#).

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

## About Synamedia Video Network Distribution Solution

Synamedia offers a comprehensive distribution solution for content providers to securely deliver video to multichannel programming video distributors (MPVDs). Part of Synamedia's end-to-end video network portfolio, the solution is anchored by a converged platform enabling the distribution of linear channels via satellite and/or terrestrial networks. Our cost-effective solution leverages network control, reception, and management capabilities to ensure the reliable delivery of premium quality video through flexible transmission options tailored to your working environment.