

Secure Video Distribution Workflow

Synamedia's VIVID PowerVu Workflow as a Service enables broadcasters and content providers to securely distribute content to affiliate endpoints and deliver best-in-class viewing experiences with premium picture quality and bandwidth efficiency. An intuitive workflow user interface combined with common management simplifies the configuration and operation of the workflow.

Key Functionalities

Flexible deployment options

- Choose between on-premises, hybrid or public cloud deployment models
- Migrate from on-premises to cloud at your own pace
- Easily expand your on-premises with additional cloud capacity

Ease of use leads to faster time to market

- Workflow creation, configuration and monitoring through user-friendly VIVID Workflow Portal
- Launch new channels globally in a matter of minutes rather than months

Reduce Operational Costs

- As-a-Service hosted software with flexible consumption-based business models
- Optimize cost through elastic scaling of required capacity
- Total peace of mind through proactive monitoring at any time all year round (24/7/356)

State-of-the-art processing and orchestration

- Includes all video functions you need
- Pristine video quality, low latency and high compression efficiency through VIVID Compression and statistical multiplexing
- Intelligent remultiplexing and robust conditional access

Swiftly migration to next-gen IP Distribution

- Delivery of premium audio and video quality up to UHD resolution
- Near- live experience attained for live programmes with market-leading low latency solution

Secure distribution with Integrated management and monitoring of endpoints

- Best in class PowerVu Conditional Access to secure content
- Full visibility and control over the content delivery through endpoint monitoring
- Manage advanced sports blackouts and scheduled content replacement via event management system

Technical Advantages

- Flexible deployment options: on-premises, hybrid or cloud
- Robust high-availability architecture
- Global reach through cloud and IP
- Deploy faster through easy-to-use workflow portal
- State-of-the art set of video and audio codecs
- Guaranteed secure and reliable distribution over satellite, IP and cloud
- Full control over distribution endpoints
- Optional a-la-cart managed service option



Workflow Specifications

Ingest	
Secure and Reliable Ingest	SRT in combination with Advanced Source Resiliency
Processing	
Encoding and Transcoding	<ul style="list-style-type: none"> VIVID Compression - MPEG2, AVC and HEVC Codec Any Resolution: SD / HD / UHD
Statmux	<ul style="list-style-type: none"> Unified Rate Control (URC) Any Codec Combination and Resolution
Mux	Transport Stream and Elementary Stream remultiplexing
Content Protection	PowerVu CA, DVB-CA, SRT encryption
Output	SPTS, MPTS, HLS, SRT
Delivery	
Secure and Reliable Cloud	SRT distribution over SRT Gateway deployment in cloud
CDN	HLS-TS using HLS Gateway and compatible Endpoints
Internet	SRT over Internet
End-Points	
D9800	SRT and HLS-TS delivery, PowerVu content authorization
D9866	SRT delivery, PowerVu content authorization
Media Edge Gateway (MEG)	SRT and HLS-TS delivery, PowerVu content authorization

VIVID Workflow Portal

VIVID Workflow Portal	
Configuration GUI	Easy output configuration thanks to stream creation wizards dedicated to each streaming format
Workflows Supported	<ul style="list-style-type: none"> • PowerVu – Encode/Transcode – Mux/Scramble – SRT Distribution • PowerVu – Encode/Transcode – Mux/Scramble – Satellite Distribution • PowerVu – Mux/Scramble – SRT Distribution • PowerVu – Mux/Scramble – Satellite Distribution • PowerVu – Encode/Transcode – Mux/Scramble – CDN Distribution • PowerVu – Mux/Scramble – CDN Distribution

Endpoint Control, Management and Insights

Endpoint Control, Management and Insights	
PowerVu Network Control	See PowerVu Network Center datasheet for detailed information
	Deployed as part of your VIVID Project
Functionality	<ul style="list-style-type: none"> • Fully integrated Synamedia Endpoint database • Database search and reporting features for Synamedia endpoints. • Content output control on Synamedia endpoints (CA based) • Blackout, service replacement and spotlight control • Fingerprint trigger • Forced channel tuning on Synamedia endpoints. • Remote code download to Synamedia endpoints • Visual Endpoint monitoring: Endpoint input statistics, alarms, configuration • Live Event Controller option for enhanced program replacement management
Supported endpoints	D9800, D9866 and Media Edge Gateway*

Workflow Distribution

Delivery Options	
Secure and Reliable Transport	Cloud Secure and Reliable Transport by SRT Gateway deployment in VN Cloud
CDN	Use of CDN for Reliable Transport, using HLS-TS in Low Latency Mode

Business Options

Business Options	
Consumption Based	Monthly Subscriptions with provision on overage

Deployment Infrastructure

Infrastructure Support	
Synamedia VN Cloud	Workflows hosted in Synamedia account in partnership with Public Cloud vendors
Customer Public Cloud	Workflows hosted in Customer account on Public Cloud vendors AWS, Google or Microsoft Azure
Customer Private Cloud	Workflows hosted in Customer Private Datacentre in Synamedia's reference architecture for Workflow deployment in containerized environments, also known as VIVID Cluster

Ordering Information

VIVID Workflows are offered as a subscription software-as-a-service (SaaS) and accessed by Authorized Users through the VIVID Workflow Portal.

Customers are charged against “Subscription Term”.

It means the time period during which Customer uses the Service, whether as a month-to-month or fixed term subscription, as set forth on the Order and starting from the Subscription Commencement Date set forth in the Order or agreed upon between Synamedia and Customer

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’s video network solutions enable media, web and pay TV providers to deliver pristine-quality broadcast and broadband video securely over any network to any screen. Anchored by the industry’s most comprehensive processing platform and built with high-quality standards, our solutions ensure outstanding performance and reliability for over 1,000 customers worldwide. Synamedia’s solution portfolio covers the entire video network chain – from distribution, through processing, to delivery – enabling you to offer outstanding value-added and personalised experiences while saving cost