

Streaming Content at Scale with Synamedia's Intelligent Edge CDN

Synamedia's Fluid EdgeCDN enables Internet Service Providers (ISP) and content owners to efficiently deliver streamed content at the highest throughput and lowest latency, while minimising network and origin server load.

Streaming video consumption is growing rapidly, driven by live sport events. The highly scalable Fluid EdgeCDN private CDN solution enables operators to keep control of their infrastructure and to maximize their infrastructure ROI with hybrid cloud delivery and management.

In this evolving media streaming market, solution sustainability has become a decision criterion in every investment. Fluid EdgeCDN now delivers more with less energy, proposes elastic solutions to manage traffic growth and provides key analytics elements for supporting carbon footprint reduction decisions.

Key Functionalities

Minimum third-party dependence, maximum performance and scalability

- Easily scales CDN up or down at massive proportions
- Serves millions of simultaneous users thanks to tremendous edge throughput capacities
- Implements advanced caching and routing strategies to optimise performance and reduce latency
- Embeds a CDN selection feature for load balancing, traffic offload and traffic optimisation

Easy operation, rich monitoring and analytics

- Facilitates operation and management tasks that are centralised through the Director component.
- Offers centralised monitoring, reporting and analytics
- Aggregates terabytes of logs via data compression, and responds immediately to complex queries
- Offers over 100 pre-configured dashboards and metrics across all domains
- Provides multi-tenancy portal for native support of wholesale models and CDN monetisation

Extensive service offer, flexible operation model

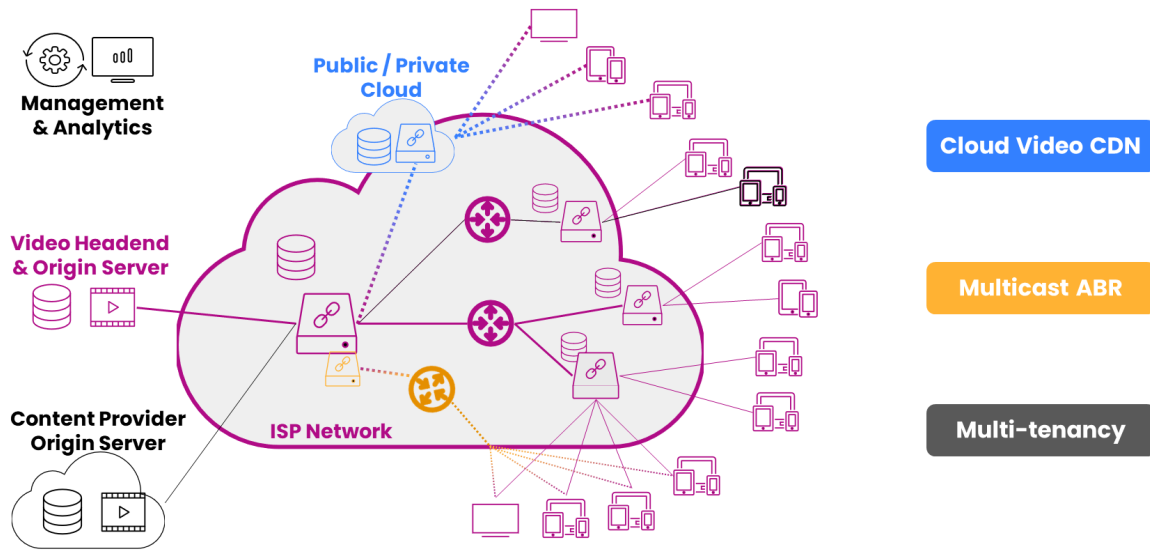
- Brings together CDN design, installation, configuration, and commissioning services
- Deploys either by self-operated or fully managed model
- Maximises offering value through professional training

Technical Advantages

- Optimised video streaming design
- Support of MPEG-DASH, HLS, HSS, HDS
- Content-, popularity-, device-, and location-aware caching and routing strategies
- Embedded CDN selection feature to control cost and quality of video experience
- Native support of wholesale models to enable CDN monetisation
- Compatibility with any origin server
- Pre-integration with Synamedia's Origin Server, cloud DVR, and headend watermarking solutions



Solution Functional View



Main Product Capabilities

Capabilities	
Content Types and Formats	Delivery of any type of content and data over HTTP/HTTPS, but especially optimised for: <ul style="list-style-type: none"> • Apple HTTP Live Stream (HLS) • MPEG Dynamic Adaptive Streaming over HTTP (DASH ISO-BMFF) • Microsoft HTTP Smooth Streaming (HSS) • Adobe HTTP Dynamic Streaming (HDS)
Content Security	<ul style="list-style-type: none"> • URL signing/tokenization • HTTPS/SSL support • DNSSEC support • SSL key vault to secure API, tokenization, SSL, and DNSSEC credentials
Configuration, Management and Monitoring	Centralised configuration, management and monitoring via Edge Director system to enable: <ul style="list-style-type: none"> • Configuration of caches and creation of delivery services and cache groups • Monitoring of traffic statistics • Collection of logs • Generation of dashboards and metrics
Analytics	<ul style="list-style-type: none"> • Custom dashboards • More than 100 pre-configured dashboards and metrics in all domains, including: <ul style="list-style-type: none"> • CDN health • cache-hit ratio • most requested servers • viewing usage • QoE
Request Routing	<ul style="list-style-type: none"> • Routing strategies based on advanced rules considering various criteria, including: <ul style="list-style-type: none"> • network topology • cache loads • traffic data • content type and popularity • location • Embedded CDN selection feature allowing load balancing, traffic offload and traffic optimisation according to predefined business rules based on system metrics
Compatibility and Pre-integrations	<ul style="list-style-type: none"> • Compatible with any origin server • Pre-integrated with: <ul style="list-style-type: none"> • Synamedia's vDCM Origin Server • Synamedia's cloud DVR • Synamedia's headend forensic watermarking

Platform Support and Compatibility

Deployment	
Appliance	<i>Fluid Edge CDN Appliance</i> details below
Private & Public Cloud	Virtual machine, docker container

Fluid Edge CDN Appliance	
Physical and Power	1U form factor, AC input 100-240 VAC
Processor	AMD EPYC™
Network Interfaces	1 Gigabit Ethernet Adapters 10/25 Gigabit Ethernet Adapters 100 Gigabit Ethernet Adapters
Storage	RAM SAS SSD NVMe SSD Dedicated Storage for Operating System and Application
Performance	Up to 185Gbps Streaming

Product Ordering Information

For ordering information, please contact your 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 Solutions

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 costs.