

Stream Content at Scale

Synamedia's Fluid EdgeCDN enables content owners and internet service providers (ISPs) to deliver streamed content efficiently at the highest throughput and lowest latency, while minimizing network and origin server load.

Driven by live sport events, streaming video consumption is growing rapidly. Synamedia's highly scalable, private Fluid EdgeCDN solution enables operators to keep control of their infrastructure and to maximize infrastructure ROI with hybrid cloud delivery and management.

In today's evolving media streaming market, solution sustainability is a key criterion for every investment. Fluid EdgeCDN delivers more with less energy, proposes elastic solutions to manage traffic growth, and provides key analytic elements for supporting carbon footprint reduction decisions

Key Functionalities

Minimize third-party dependence, maximize 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 optimize performance and to reduce latency
- Embeds a CDN selection feature for load balancing, traffic offload and traffic optimization

Simplify operations alongside rich monitoring and analytics

- Facilitates operation and management tasks that are centralized through the Director component
- Offers centralized 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 monetization

Leverage extensive service offer and flexible operation model

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

Technical Advantages

- Optimized video streaming design
- Support of MPEG-DASH, HLS, HSS, and 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 monetization
- Compatibility with any origin server
- Pre-integration with Synamedia's Origin Server, cloud DVR, and headend watermarking solutions

Main Product Capabilities

Capabilities	
Content Types and Formats	<ul style="list-style-type: none"> • Delivery of any type of content and data over HTTP/HTTPS, while especially optimized 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	<ul style="list-style-type: none"> • Centralized 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 enabling load balancing, traffic offload, and traffic optimization 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	<ul style="list-style-type: none">Fluid EdgeCDN Appliance details below
Private & Public Cloud	<ul style="list-style-type: none">Virtual machine, docker container

Fluid EdgeCDN Appliance

Physical and Power	<ul style="list-style-type: none">1U form factor, AC input 100–240 VAC
Processor	<ul style="list-style-type: none">AMD EPYCTM
Network Interfaces	<ul style="list-style-type: none">1 Gigabit Ethernet adapters10/25 Gigabit Ethernet adapters100 Gigabit Ethernet adapters
Storage	<ul style="list-style-type: none">RAMSAS SSDNVMe SSDDedicated storage for operating system and application
Performance	<ul style="list-style-type: none">Up to 185Gbps streaming

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.](#)

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](#).