

Deliver fast and reliable live, OTT and VoD streaming video and keep people watching

Brochure

Varnish Streaming Server

# Deliver fast and reliable live, OTT and VoD streaming video and keep people watching

# Varnish Streaming Server

Media streaming accounted for over 60% of all web traffic in 2019\*, and this figure will only rise as more streaming services go online and global internet speeds increase. Demand for high quality, low latency video means streaming services need content delivery infrastructure that is scalable and reliable, while ensuring high-performance at all times. In a crowded, highly competitive market, a bad streaming experience can make the decision easier for users thinking of moving to another service:

\* Source: NCTA, 2019

85%

of viewers give up streaming if their content is taking too long to load\*

\* Source: eMarketer, 2017

vill abandon a service

altogether if they experience buffering issues several times\*

\* Source: eMarketer, 2017

## Reach every audience

Varnish Streaming Server provides caching and origin protection technology so streaming services can reduce latency, protect backend servers, scale easily and continue providing large audiences with ultra-fast streaming experiences. It sits between CDNs and backend infrastructure and helps some of the world's biggest content providers match peaks in demand and stay online while delivering the high-performance, responsive video streaming that viewers demand.

By protecting critical infrastructure from high traffic and handling more viewers with less bandwidth, Streaming Server does all the hard work to keep VoD, live and OTT streaming services running at top speed, even in busy periods.



## How does Streaming Server work?

Streaming Server functions as a caching layer that sits between a content provider's web servers and their users, helping to deliver anything from live sports to HD video on demand, to all audiences, irrespective of size or location.

> As an HTTP caching proxy, Streaming Server takes a copy of the content passing through it the first time a user requests it. Future requests for the same content can be served by Streaming Server instead of the backend servers, which reduces server load while improving client response times.

The cache can also be pre-loaded with huge libraries of content, preempting requests for popular content to reduce latency right off the bat. The result is ultra-fast content delivery that satisfies end users, has fewer backend resource needs and protects origin servers, meaning streaming service can stay online and responsive while managing bandwidth costs.



Streaming Server is flexible and hardware agnostic, ready to be deployed on existing infrastructure alongside existing tools, on-premise, in-cloud or as a hybrid set up.



## Streaming Server features

#### 190Gbps throughput

Reliably super-fast live, OTT, VoD, HD streaming, no matter the audience size, device or location

#### 100TB+ edge storage

Store multi-terabyte data sets in-cache, minimizing backend requests for streaming VoD so viewers can enjoy stable, fast delivery of vast content libraries.

#### **Origin protection**

Shield origin servers from heavy traffic while serving as much content as possible to other Varnish nodes, achieving solid streaming performance even with live streams, keeping viewers engaged and up to date.

#### Content pre-fetch

Prefetching content predictively loads data into the cache before it is requested, ready to serve immediately. Prefetching improves cache-hit ratios, making it highly useful for VoD and OTT streaming.

#### **Edge logic**

VCL adds true flexibility and edge power, for setting granular policies and delivering optimized user experiences on any device.

#### **High availability**

Satisfy any audience size with 100k request per second and high availability, scaling up to meet any traffic demand and ensure capacity and redundancy.

#### **Memory Governor**

Scale the cache size automatically to make the most of memory capacity without risking saturation.

#### Security

Streaming Server provides multiple layers of security and access-control tools, including native TLS, DRM compatibility and complex logic for rate limiting or geo-blocking.

#### **Professional services**

No one goes it alone. The expert team helps configure and deploy Streaming Server on any infrastructure, including balancing traffic across CDNs and Varnish.

Streaming Server does all the hard work to keep VoD, live and OTT streaming services running at top speed, even in busy periods.



## Streaming Server customer success

## SFR

The French telecom uses Streaming Server with the Varnish Massive Storage Engine to serve its rapidly growing VoD content library to millions of customers. With the Varnish Massive Storage Engine, SFR could cache virtually unlimited objects and deliver fast performance at scale.

> - Thierry Magnien, Service Platforms Manager, SFR

Varnish performs exactly as promised. We launched Varnish on a Friday afternoon right before streaming a big sports event, and it worked flawlessly

> – Adam Palmblad, TV Architect, Com Hem

### Com Hem

Varnish powers seamless OTT live and VoD streaming, allowing Com Hem to manage growing amounts of data, build their own CDN for HTTP video streaming, and control traffic, caching and edge logic. They replaced existing streaming technology for a more flexible, customizable solution with a predictable price point.

## Surfline

For the world's largest coastal live HD cam network, Varnish enables consistent streaming while protecting servers during weather-event-driven traffic spikes. It also syndicates data quickly via APIs across websites, apps and connected TV platforms. Varnish Streaming Server has negated the need for adding application servers and has helped us to manage services and continue growing while keeping us fast and nimble.

> - Brian Mezger, Vice President of Technology, Surfline



The cache can also be pre-loaded with huge libraries of content, preempting requests for popular content to reduce latency right off the bat.

## Support the way you need it

Many enterprises value Streaming Server's 24x7x365 support provision, with access to short SLAs, technical expertise, long-term software lifecycles and managed updates:

- Day-to-day troubleshooting with a team of Varnish experts on hand to support general usage.
- · Each release is stable, tested and hardened, to enable confident enterprise rollout.
- New releases and feature updates are communicated in advance, with clear upgrade pathways.
- Security updates are backported, for long-term protection.

# Professional services from the Varnish experts

Another benefit of Streaming Server is access to professional services with a team of

industry-leading caching and content delivery experts, for help planning, sizing and implementing the solution, and fine-tuning once installed. No one goes it alone, with dedicated teams on hand to support usage of Streaming Server every step of the way, no matter the use case or challenge. Streaming Server is flexible enough to grow and adapt in line with business requirements, for future-proofed technology that is expertly tuned for every situation.

## **Experiencing Streaming Server**

Extended, free trials are available and easy to set up and run, for a no obligation, low effort way to experience the performance benefits of Streaming Server first hand.

## Learn more

Founded in 2010, Varnish Software has offices in Oslo, Stockholm, London, New York, Los Angeles and Paris. To find out more, please visit www.varnish-software.com.



Los Angeles - Paris - London Stockholm - Singapore - Karlstad Dusseldorf - Oslo - Tokyo

