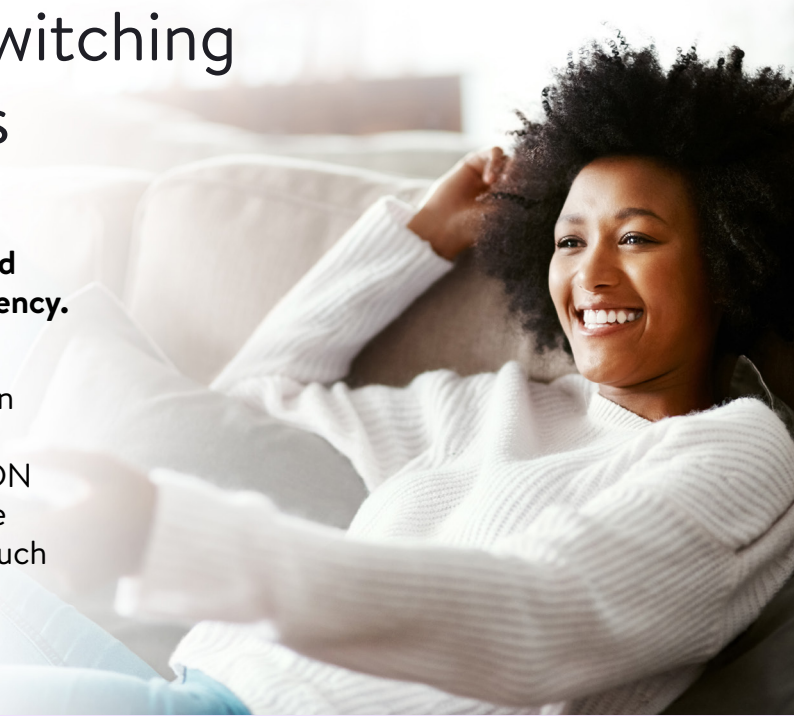


Dynamic multi-CDN switching for open environments

With **CDN Broker**, video service providers can intelligently route video streams over public and private CDNs to maximise the streaming efficiency.

Designed for open environments, the SaaS application incorporates a powerful, rules-driven CDN decisioning engine and in-stream CDN switcher for optimising traffic delivery. With CDN Broker, the best fit CDNs can be selected at the right time, using automation driven by factors such as cost, quality of experience, traffic demands, latency, geo controls and energy consumption.



Ultra-efficient streaming

Fine-tune multi-CDN networks for peak efficiency with load balancing plus latency and energy use based decisioning.



Scale effectively

Dynamically scale capacity for transient traffic spikes, and rapidly extend geographic reach beyond private CDNs.



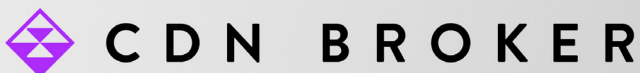
Enhanced viewing experience

Ensure subscribers receive the highest QoE and up-time on private and public CDNs by adjusting CDN delivery paths.



Boost revenues

Automatically select the lowest cost CDNs and generate new revenues by opening private CDNs to OTT content providers.



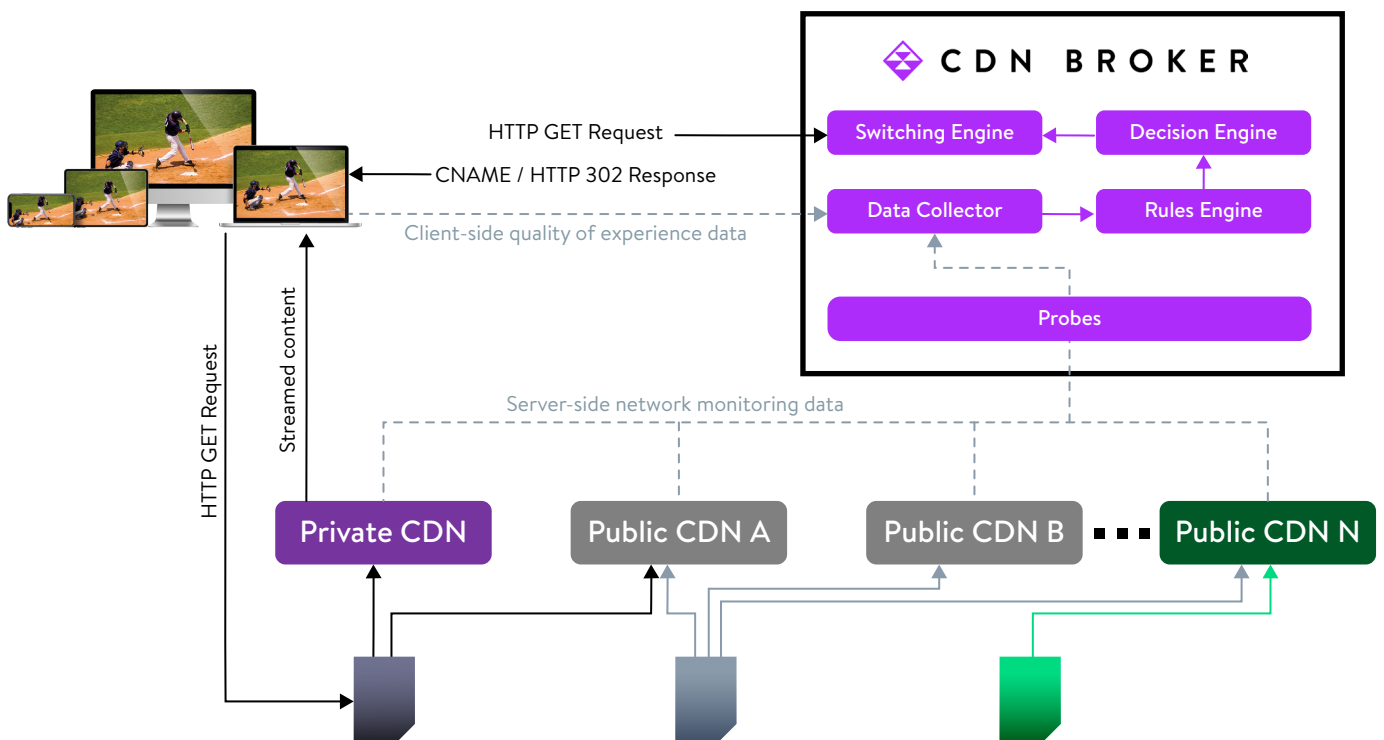
Carrier-grade resilience & performance

CDN Broker robustly supports carrier-level traffic volumes. Its segment level routing supports petabytes of traffic per day, using a scalable design that leverages Velocix's core CDN experience.

The segment level routing enables CDN Broker to maintain control of the video stream and redirect it at any time during the active session, and this delivers better cost savings and quality in comparison to single CDN architectures.

Hybrid analytics enable faster and more accurate decisions. The application interfaces with both client and server-side probes to provide the most precise view of CDN performance and health.

Potential integration of an AI/ML rules engine can provide even more granular control. CDN Broker's rules can be applied based on service, content attributes, device, location, or time, as well as AI/ML derived predictive data.



CDN Broker monitors client and server-side data to guide decisioning. Streams can be re-routed to other CDNs mid-flight if expected KPIs are not being met, if the preferred CDN fails, or if available capacity is exceeded.

Microservice module-based design

Decision engine

Module decides how to optimally route traffic across multiple private and public CDNs based on configurable business rules, static data, real-time measurements, and predictive analytics.

Switching engine

Executes routing decisions and directs traffic to the appropriate CDN. Manages CDN routing at the segment level and can dynamically redirect stream traffic to alternate CDNs when necessary.

Data collector & probing

Data collector interfaces with CDNs, clients and other systems to gather the data required to measure CDN performance and accurately route traffic.

Integrated probing provides server-side performance metrics to assess the health of the CDNs in use.

Rules engine

Presents a unified control plane, monitoring and measurement framework that spans multiple CDNs to normalise data and simplify operational tasks.

* Note: Velocix has a policy of continual improvement, and product specifications and features are subject to change