

## OneVantage™ VoD Streamer

Network operators have traditionally focused their efforts on the optical transport and packet switching layers of their networks for creating and improving the connectivity experience of their subscribers. Recently, however, the consumption of rich media content has come to dominate the perceived Quality of Experience (QoE) for subscribers. And as the explosive growth in this traffic is pushing networks to capacity, operators are turning to application-layer content caching and delivery services as the next source of improvement for the user experience.

This represents a fundamental shift in mindset. During the past decade operators left responsibility for sourcing and delivering content largely to global CDN service providers. However, the massive popularity of OTT content coming at the expense of network operating margins is driving operators to reinsert themselves into the content delivery value chain. By deploying CDN platforms to support a variety of new and higher quality content services, these operators are addressing a current problem and protecting their long-term competitiveness.

Verivue's OneVantage™ Content Delivery Solution is a suite of turnkey CDN technologies designed to meet the next-generation content delivery needs of network operators. The OneVantage™ Content Delivery Solution is comprised of an open network virtualization platform, installed on commodity hardware, upon which CDN software modules are deployed and managed. For legacy cable and IPTV set-top environments requiring exceptional hardware performance density, the OneVantage™ VoD Streamer is a purpose built, solid-state edge platform for the delivery of high value media. The VoD Streamer supports intelligent edge caching to enable virtually unlimited VoD content libraries when deployed as part of a full CDN solution.

### Product Overview

The OneVantage™ VoD Streamer is a best of breed edge caching platform for VoD environments. It enables network operators to lower costs and improve the user experience by reducing bandwidth and latency for managed content offerings.

The VoD Streamer is comprised of the highly optimized 9200 and 9020 streaming and caching nodes. UDP performance is greatly enhanced by the high density solid-state architecture of the 9200/9020. By combining caching and edge streaming into a single node, the VoD Streamer eliminates costly and complicated separation of functionality at the edge of the network.

The blade-based 14RU 9200 and the 3RU 9020 provide operators with cost effective scaling of bandwidth, streaming and storage capabilities in a network switch designed for non-stop operations, low-power utilization and a compact footprint.



#### One CDN:

Independent ingest and delivery stream handling

#### High Performance:

Unparalleled UDP streaming performance

#### Common platform:

For streaming and caching

#### Non-stop operation:

Fault tolerance and in-service software upgrades and 99.999% uptime

#### Large Network support :

Scale out design for web scale implementations

#### Smooth migrations:

Modular software component adds to meet new requirements

## Features and Benefits

### Full CDN Integration:

The OneVantage™ VoD Streamer allows an operator to leverage a uniform HTTP-based CDN for content distribution within the network. In fact, it functions as a gateway between HTTP nodes in the core and UDP streaming towards the subscribers. The core of the CDN may be built using standard HyperCache clusters serving multiple applications, effectively bridging the gap between legacy VoD streaming and HTTP-based delivery techniques.

### Comprehensive Integration with VoD Ecosystems:

The OneVantage™ VoD Streamer supports a mix of popular back office systems, including Ericsson's OpenStream Digital Services Platform (DSP), Seachange eventIS and others, all while enabling full CDN integration. It allows operators to retain their existing back-office choices and introduce CDN capabilities for library expansion in a seamless fashion. VoD Streamer has been successfully tested with a variety of leading set-top boxes and supports multi-speed trick modes across the CDN.

### High Density and Availability:

Based on a high-density, solid-state platform with strategic hardware offloads to address the stringent delivery requirements of set-top boxes, VoD Streamer offers lower power, cooling and space requirements than competing solutions. Several high-availability features are included as part of the platform including redundant power, fans, and network interfaces. Storage redundancy is provided using a unique RAID scheme that protects against drive failures and maintains cached content in the case of power loss.

### OneVantage™ Content Delivery Solution

Verivue's OneVantage Content Delivery Solution is a complete CDN infrastructure solution for network operators. It offers the industry's most extensible design to meet the requirements of a diverse set of applications. Also available from Verivue are:

HyperCache

Request Router

Management & Analytics

Internet Streamer

Object Store

Transparent Cache