

OneVantage™ Management & Analytics

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. The OneVantage™ Management Suite includes Element and Service Management, Proactive and Reactive Monitoring and a sophisticated Analytics & Reporting Service, as well as integration with popular third-party management tools.

Product Overview

The OneVantage™ Management Suite provides customers with visibility into CDN resource utilization, operational performance, and overall network traffic patterns. All aspects of the OneVantage™ Content Delivery Solutions behavior are managed through a centralized element management console, including resource provisioning, traffic engineering, feature deployment, performance tuning, and element monitoring.

The OneVantage™ Content Delivery Solution is managed as a coherent whole rather than as a disjointed set of separately managed networking elements.

This console provides an intuitive graphical user interface (GUI) as well as a programmatic interface (API) that operators can integrate into existing network management applications.



Operator CDN Client support:

Via partitioned, role based user control

Reduced complexity:

With single seat management of the CDN "whole"

Trouble Avoidance:

Proactive problem avoidance through real-time monitoring

Visibility:

Extensive reporting provides deep performance analysis

Environment synergy:

Integration with existing management and reporting applications

Features and Benefits

Multi-Tenant Architecture:

The OneVantage™ Management Suite supports role partitioning through a hierarchy of independent roles. These include CDN Operators that manage the elements deployed throughout the network, Service Providers that manage business customers, and Content Providers that publish content via the CDN. Secure authentication partitions user access to the appropriate subset of the system's full capabilities.

Real-time Traffic Statistics:

A wide-range of content delivery statistics is available in real-time. These include distributions of user-realized streaming rates, as well as per-URL, per-user, and per-referrer request and data delivery rates. Statistics are available in both a tabular and graphical format, as well as through a query interface that allows operators and content providers to answer specific questions in a timely manner.

In-Depth Analytics:

Overall trends in user access patterns are revealed through a rich set of web analytics. Data can be aggregated across time (hourly, daily, weekly, monthly) and across space (per-address, per-network, per-autonomous system) to reveal content access trends at different granularities. Raw content delivery data is also easily exported for incorporation into third-party analytics tools.

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

Internet Streamer

VoD Streamer

Object Store

Transparent Cache