QB-Series™ Universal Video Delivery

Online video has become a global phenomenon, with a limitless mix of premium and user generated content from a huge variety of content providers readily available to the viewers. Network operators face increasing costs of bandwidth needed to meet the rapidly growing demand for online video and improved viewing experience to stay competitive, while being forced to invest heavily into maintaining a robust network infrastructure. Qwilt's products help carriers reduce the impact of over-the-top (OTT) video traffic on their networks, improve quality of service for their end users, and prepare their networks for the future of online video.

Qwilt's Universal Video Delivery solution monitors the network for video traffic, identifies the most popular titles, stores them locally, and delivers content to subscribers in close proximity without having to repeatedly fetch it from either origin sites or remote CDN nodes. The result is seamless delivery of most frequently watched video titles in the content originator's fidelity that is completely transparent to the content provider, network, and user - whether it's the latest Hollywood blockbuster, user-generated video, or a title from the carrier's own VOD library.

Qwilt's purpose-built, carrier-grade platform is engineered specifically for delivering large volumes of video traffic from the network edge, with at least 5x better performance on the same footprint than any video caching solution in the industry. Qwilt's unified Universal Video Delivery solution is the only one in the industry to combine the four key video delivery functions – **Classification, Monitoring, Storage, and Optimized Video Delivery** - in an integrated software platform designed to run on readily available commodity hardware.

- Take control of video traffic and monetize delivery to subscribers and content partners

- Reduce bandwidth usage and related costs with Return on Investment (ROI) in under 12 months

- Change OTT video from a liability into a revenue-generating asset

- Improve OTT video performance with a transparent caching solution optimized specifically for video

- Use a unified platform to deliver all online video content

- Integrate with existing Content Delivery Networks (CDNs) for additional scale

BENEFITS

REDUCE COSTS

Reduce online video traffic by up to 80% to minimize costly network upgrades, and transit and peering costs.

IMPROVE PERFORMANCE

Transparently deliver streaming video from the subscriber edge for better end user Quality of Experience (QoE).

DROP IN AND DEPLOY

Deploy a unified video delivery appliance without rewiring and policy changes. QB-Series out-of-band deployment reduces risk.

GAIN VISIBILITY AND CONTROL

Video Analytics engine monitors online video and provides insight for forecasting, trend detection, and monetization.

MONETIZE OTT TRAFFIC

Launch new revenue generating services leveraging a unified service creation platform with deep HTTP video capabilities.
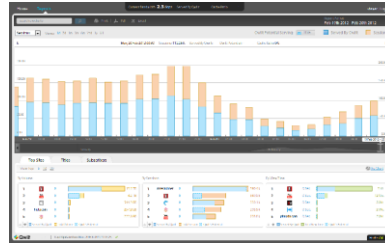
Service Provider Benefits

With Qwilt QB-Series, service providers can significantly reduce the cost and impact of online video traffic, gain complete visibility into OTT traffic, and control video delivery in their networks.

Cost-efficiency: By identifying and caching bandwidth-intensive OTT video, Qwilt can reduce the impact of this traffic by 60-80%, cutting infrastructure, transit and peering costs.

Visibility: An analysis engine offers unprecedented insight into OTT traffic characteristics and trends. And by continuously analyzing and monitoring traffic for new patterns and adjusting delivery accordingly, service providers can adapt in real time to changing network dynamics.

Control: With an integrated, transparent delivery solution for video, service providers can create and launch new revenue generating services, managing all online video traffic from a single unified platform.

THE QWILT ADVANTAGE

BIG POWER/ SMALL PACKAGE

QB-Series delivers at least 5 times better performance than alternatives by integrating all the necessary elements of video delivery, optimized for video

AUTONOMOUS PLATFORM

QB-Series a completely integrated solution that identifies, monitors, stores and delivers online video, without complex integrations or network re-architecture.

OPTIMIZED FOR VIDEO

From intelligent video classification to tiered storage, QB-Series is optimized for the unique demands of streaming video in carrier networks.

PINPOINT ACCURACY

Qwilt's Online Video Classification Engine uses advanced analysis to identify video traffic, and Qwilt's Video Signature Research Group keeps your network ready for the latest video content and formats.

QB-Series Features

- 5 times faster, smaller and more power efficient than alternative solutions
- Best-in-class performance per footprint
- Transparent caching of content at subscriber edge
- True offline insertion with zero impact to existing network
- Access agnostic - wireline (cable, ADSL, fiber), mobile and satellite support
- Transparent installation without requiring complex integrations with 3rd party devices
- In-depth monitoring and reporting of online video traffic
- Visual dashboards providing insight into traffic patterns and trends and peak/busy periods
- Extensive remote management access reduces time and expense for normal upgrades and troubleshooting/repair
- Up-to-date video signatures from Qwilt's Video Signature Research Group
- Fully compliant with US (DMCA 1998) and EU (E-commerce directive 2000) legislation for service provider Safe Harbor provisions

QB-100 Model Specifications

- 20 Gbps classification and analysis throughput
- 10 Gbps video delivery throughput
- 2U rack form factor
- 10 Gbps Classification and Analytics Throughput per RU*
- 5 Gbps Video Delivery Throughput per RU*
- Hot-swappable power supplies and disks
- 6 x 10 GbE Dual Port SFP+ Interfaces
- 2 x AC/DC power: 100-240 V, 50-60 Hz, 9.0-4.5 A.
- 450W typical power consumption
- 19" Rack mount (2EIA Units)

* Assuming a complete transparent caching solution performing classification, analysis, storage and video delivery concurrently

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