

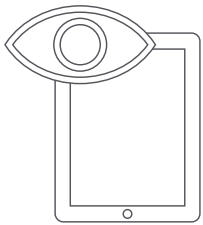
Drive revenue. Meet QoE goals. Lower costs.

The massive growth in mobile video presents both challenges and opportunities for service providers. Vantrix Bandwith Optimizer gives you precise, policy-driven control of your network resources, so you can drive revenue and meet QoE goals while reducing infrastructure costs.

Surgical bandwidth optimization

Vantrix Bandwidth Optimizer enables you to precisely apply tools to make the most of your network & maximize revenue including:

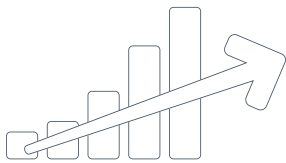
- Bitrate throttling with microbursting
- Dynamic bitrate adaption
- On-the-fly transrating and transcoding



Quality assurance

Bandwidth Optimizer constantly monitors network performance from an end-user perspective and triggers the necessary optimization events to ensure that the QoE goals you set are consistently met.

Reporting & analytics



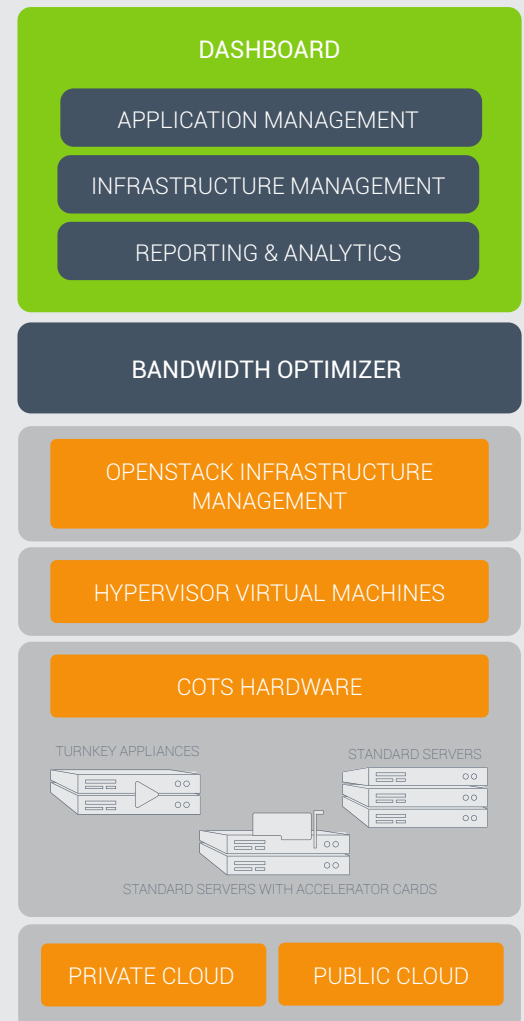
Gain the insight you need to improve network performance and customer satisfaction with real-time KPI monitoring and the ability to drill down into, analyze and report on historical data.

Key traffic metrics tracked for Bandwidth Optimizer include:

- **Content (video, web and audio)** – encoding bitrates, frame rates, original resolutions, container MIME types, codecs, etc.
- **User behavior** – website / domain distribution, content durations, session durations, applications, protocols, etc.
- **Requesting device** – device types, user agents, screen resolutions, etc.
- **Network / platform activity** – Bytes in/bytes out, round trip times, number of HTTP requests and concurrent sessions, session bitrates, lengths, caching statistics, etc.

Virtualized, software-defined architecture

Vantrix Bandwidth Optimizer includes a centralized dashboard for easy management of virtualized resources, along with integrated reporting and analytics. It can be deployed on media-optimized appliances or standard servers in both private and public cloud scenarios.



Granular policy enforcement

Maximize revenue and QoE in rapidly changing network conditions by utilizing Bandwidth Optimizer's configurable Policy and Charging Enforcement Function. This powerful rules engine enables you to trigger optimization events based on any parameter – subscriber status, content, location, device, congestion level or QoE goal.

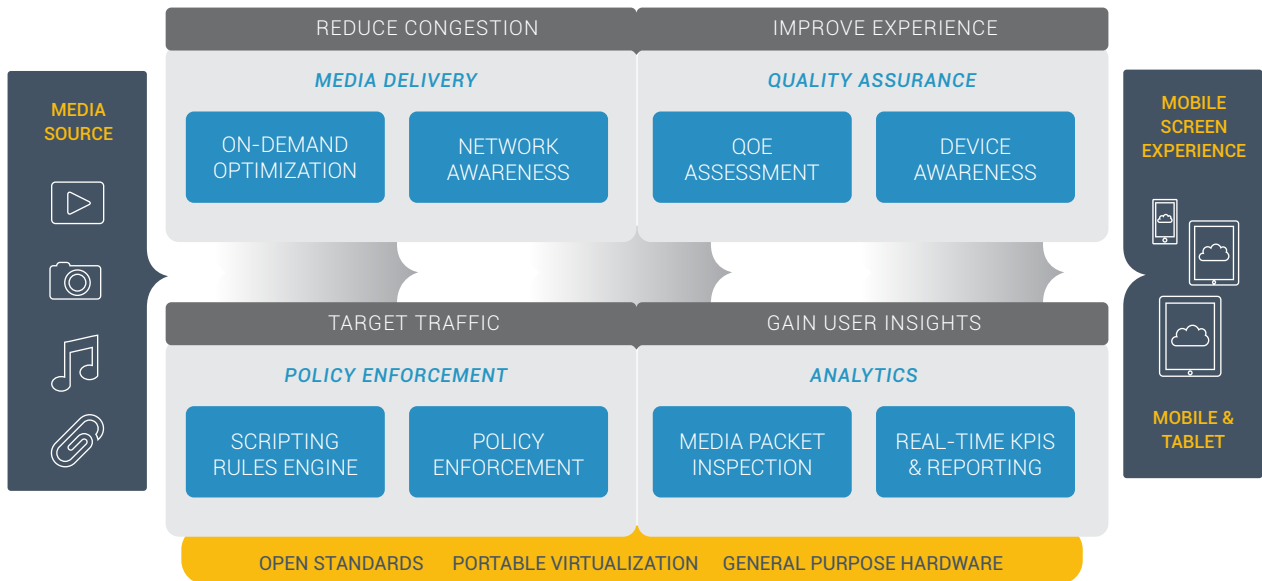
Optimization of non-video content

Bandwidth Optimizer also helps you optimize your Web page and audio traffic with smart transcoding, compression and caching technology. Network congestion can be further reduced by configuring Bandwidth Optimizer to deliver software and firmware updates off peak and by using throttling and caching techniques.

Smart caching

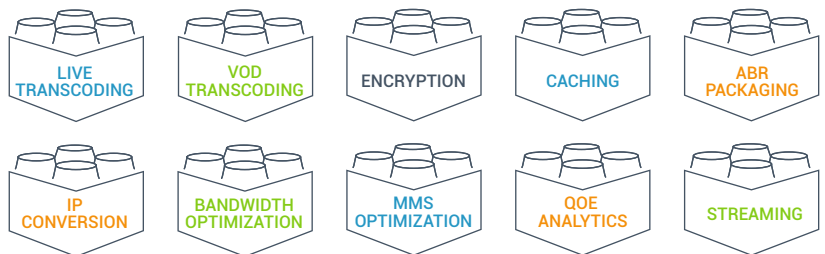
Bandwidth Optimizer helps you reduce backhaul costs and latency by applying three levels of smart caching based on escalating request frequency thresholds, set by you. VMP caches original source files, transrated files or transcoded content as popularity for a particular video asset increases.

Bandwidth optimizer key features / benefits



Vantrix Media Platform

Vantrix Video Processing is part of the Vantrix Media Platform—a modular integrated system that includes video processing, bandwidth and message optimization, as well as smart caching and analytics.



About Vantrix

Pioneers in media optimization since 1994, our technology is helping top mobile operators and video service providers across the globe successfully converge traditional linear business models with over-the-top (OTT) multiscreen delivery

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