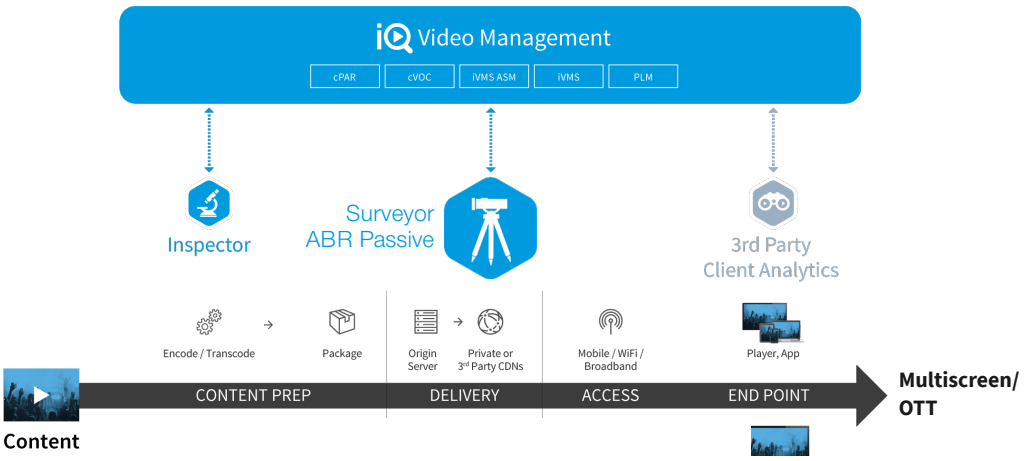
Surveyor ABR Passive

Product Sheet



Surveyor ABR Passive Family

Real-time Passive Monitoring of OTT Streaming Video

Market Challenge

Consumers demand the same viewing experience with Internet and mobile video as they do with traditional broadcast TV. Without visibility into the adaptive bitrate (ABR) streaming video network, providers cannot ensure video quality and service availability. When it comes to ABR streaming video, monitoring is even more challenging because of built-in quality variability and reliance on third-party networks to deliver your valuable content.

The iQ Solution

Surveyor ABR Passive family offers insights into the complex solutions and various networks used to deliver adaptive bitrate video. By monitoring at multiple demarcation points in the network, Surveyor ABR (S-ABR) Passive monitoring probes collect context-specific metrics, calculates performance based on multiple dimensions, and when necessary, raises alarms to alert you of critical events for further investigation.

There are three probes in the Passive family; S-ABR Publishing, S-ABR Intra-CDN and S-ABR End Client. S-ABR Publishing provides QoS monitoring of LIVE content publishing for every asset and variant. Surveyor ABR Intra-CDN monitors origin server and CDN performance. Surveyor ABR End Client provides full visibility of end client media sessions at edge cache locations monitoring asset and session performance.

Unlike solutions that rely on streaming the content for measurement, S-ABR Passive family of probes monitor without drawing on critical resources required to serve client devices. When these complementary methods of active and passive monitoring are combined, service providers and network operators can effectively scale the monitoring solution for content accessibility and network-performance measurements.

With the insights from S-ABR Passive family, you can quickly identify performance of streaming services, drilling down from visual trending data to network-level measurements for root cause analysis. Customized alarm thresholds and allocation to assets provide enormous flexibility to cater the solution to your needs.

Use S-ABR Passive monitoring to be alerted whenever your content is not available, or delivery performance runs the risk of degrading the viewer experience and your brand.

Features and Benefits

- Measure video quality “on-the-fly”, before your content is delivered through the network
- Minimize customer service calls and “truck rolls”
- Continuously evaluate the health and performance of your encoding/transcoding resources
- Reduce cost and risk of regulatory compliance

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Key Features

- Availability measured for each bitrate variant of published video assets
- Success rate calculated for each intra-Content Delivery Network (CDN) element and asset for simple identification of performance impairment
- Asset-based multilevel drilldown for rapid trouble diagnosis
- Real-time streaming error notification with customized threshold configuration puts the error detection emphasis where you want it
- Monitoring profiles support stream prioritization and differentiation groupings
- Full packet capture buffer for deep-dive offline analysis
- Measurement and error detection for accessibility, ABR protocol, and streaming performance
- Origin, load balancer, and cache error detection based on segment transfer times, latency, and bandwidth
- Alias templates ease the process of translating URLs to readable names for quick service identification
- Uses Lightweight Directory Access Protocol (LDAP) for user authentication

Applications and Uses

For Video Service Providers and Online Video Platforms (OVPs):

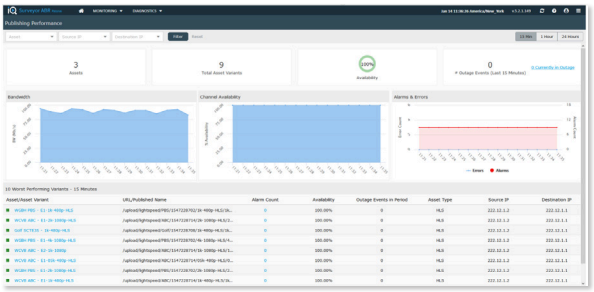
- Ensure that all assets are packaged and ready for distribution to in-house or third-party CDN
- Gain visibility to encoder and packager impairments that can result in stream outage, buffering, or looping video

For OVPs and Network and CDN providers:

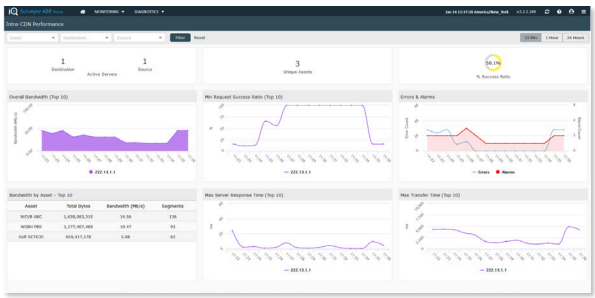
- Monitor all client requests to your network for continuous analysis of system performance
- Quickly identify unavailable content
- Establish and monitor Service Level Agreement benchmarks for your CDN
- Prepare for and design services appropriately based on observed performance and network load
- Compare performance of architecture or network changes

Specifications

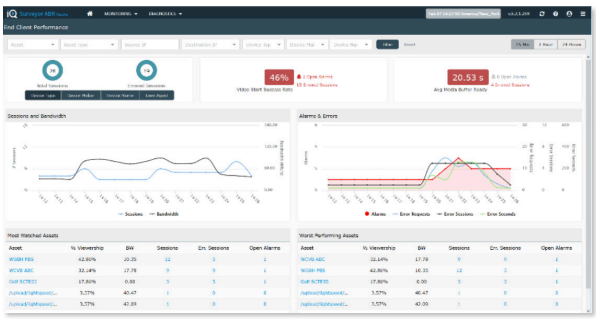
- Support for HTTP Live Streaming (HLS), MPEG-DASH (DASH), Microsoft Smooth Stream (MSS), RTMP and Adobe HTTP Dynamic Streaming (HDS) packaging formats
- Browser-based user console
- Publishing monitoring up to 10Gbps
- Intra-CDN monitoring up to 15Gbps
- Edge Client monitors up to 15Gbps and 5000 concurrent user sessions



Surveyor ABR Publishing



Surveyor ABR Intra-CDN



Surveyor ABR End Client

www.telestream.net | info@telestream.net | tel +1 530 470 1300

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