

VIAVI

VSA Agent

An Integral Part of the VIAVI Video Service Assurance Solution

The VSA Agent is a multiscreen, virtualized solution providing comprehensive network intelligence and visibility for multiscreen adaptive bit rate video services.

The VSA Agent is a highly cost-effective and scalable solution for Unicast and ABR video services. This provides visibility and identifies the transport, CDN, DNS, and video asset characteristics information that are critical in delivering a unicast service.



Figure 1: VSA Monitor

The VSA Agent performs turn-up and service testing using distributed software agents to monitor live and VoD services. It simulates multiple users requesting live and Video on Demand (VoD) content, runs load tests to verify capacity, and analyzes video MOS. Additional features include:

- Ad validation
- CDN certification
- Packet retransmit monitoring
- Support for SDN/NFV architectures

Key Benefits

Maximize Overall Investment

- Prevent issues associated with delivery of advertising content maximizing advertising revenue
- Reduce subscriber churn by ensuring quality and consistent delivery of video and audio streams to the subscribers
- Minimize overall operational expenses
- Identify problems before subscribers are impacted by validating manifest files and ensuring all streams/variants are available for players
- Reduce MTTR by segmenting the network rather than relying only on Player statistics
- View events and statistics in real-time for quick problem isolation
- Open APIs to incorporate unbiased program and availability data for OSS/BSS systems for automation, performance management, post-mortem root cause analysis and other applications
- Intuitive, easy to use — simplistic, user interface focused on Video Quality of Experience (QoE), which can be used by NOC personnel through to detailed technical support
- Reduction in overall capital outlay. Scale with software rather than hardware, leveraging virtualization and containerization. Spin up and spin down agents as required for maximum flexibility

VSA Agent provides video assurance monitoring software (Figure 1) in a virtual environment which can be easily deployed at the relevant points to allow segmenting of the network. The product addresses the most important assurance and analytics KPI's to ensure your service runs smoothly. It also has a very simple, easy to use user interface that provides real-time quick analytics and actions to identify and correct issues impacting service delivery.

Managing hundreds or thousands of live URLs is a challenge. VSA Agent allows the easy import of video assets with easy job creation via a simplified drag and drop user interface, or these tasks can be scripted for a completely automated implementation.

Characterizing program availability solely based on player statistics can be misleading as they are biased towards user devices and programs being streamed at any given point in time. Unbiased statistics and relevant KPI information provided by VSA Agent gives an agnostic view of availability — shown in real time, providing an accurate and instantaneous view of existing/potential issues in the network (Figure 2).

Key Features

- Proactively monitor and validate all unicast services
- Segment network issues impacting service to isolate problems quicker
- Monitor and identify transport, CDN and DNS issues impacting the overall service
- Verify availability and understand compliance.
- Simultaneously monitors hundreds of assets at various bit rates to ensure integrity and quality
- Monitor availability – Still/Black detection, audio loss, program loss
- Monitor Compliance – Loudness (CALM) and Closed Captioning
- Presents insights in an unbiased integrated and visually-relevant way
- Streamline and integrate with in-house systems using non-proprietary open and powerful unbiased APIs

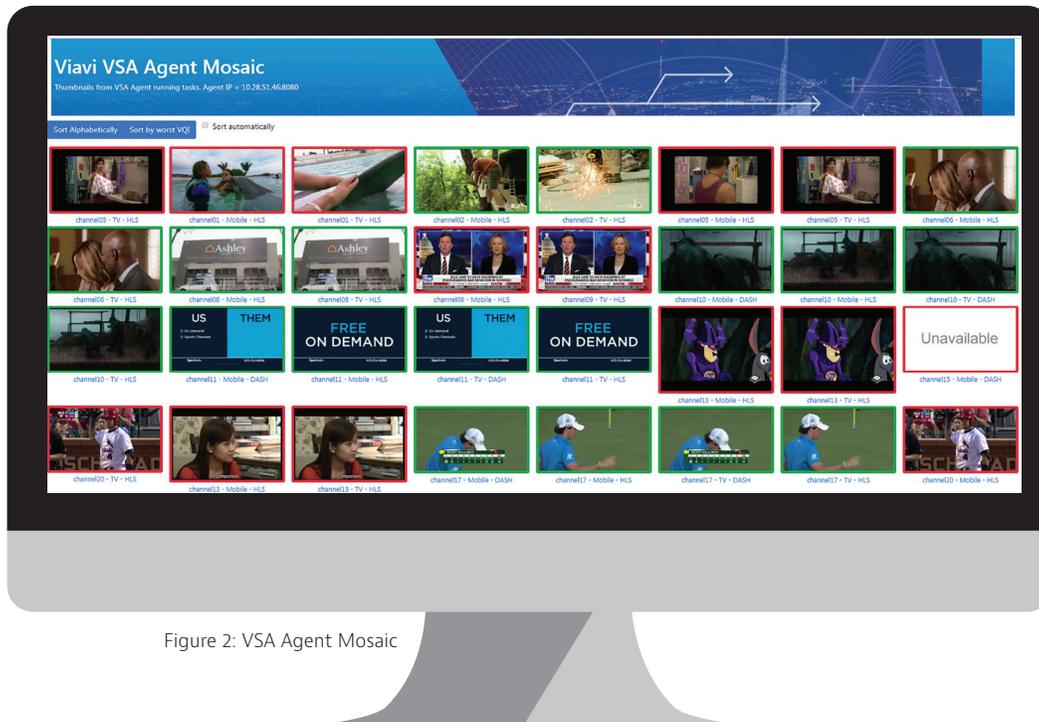


Figure 2: VSA Agent Mosaic



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