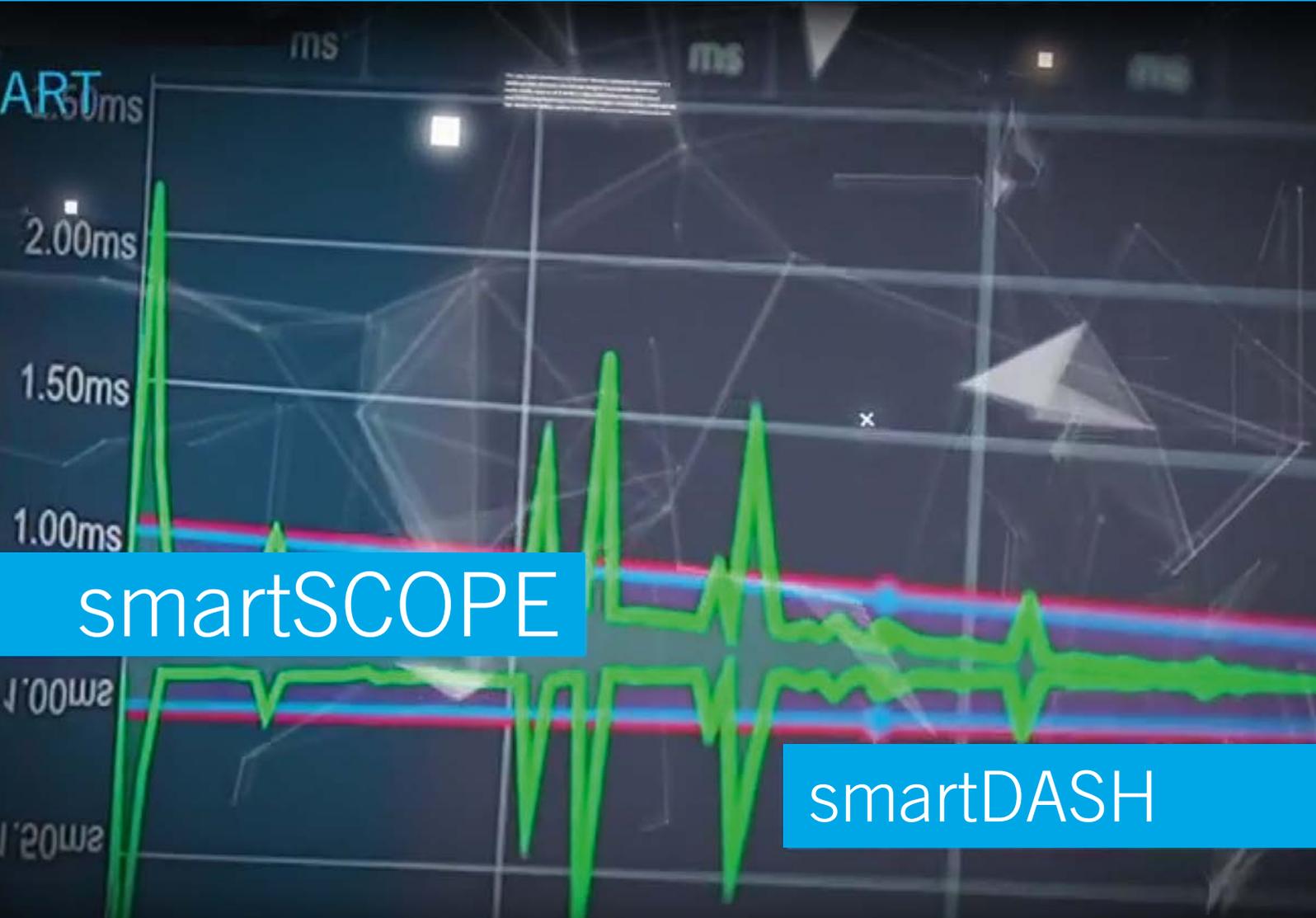


# SMART



SYSTEM MONITORING AND  
REALTIME TELEMETRY FOR  
BROADCAST NETWORKS



VISUAL  
MIGHTY  
COMPREHENSIVE

# SMART

System Monitoring and Realtime Telemetry for Broadcast Networks

## smartDASH

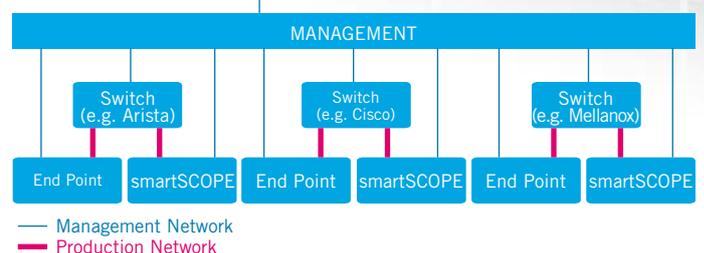
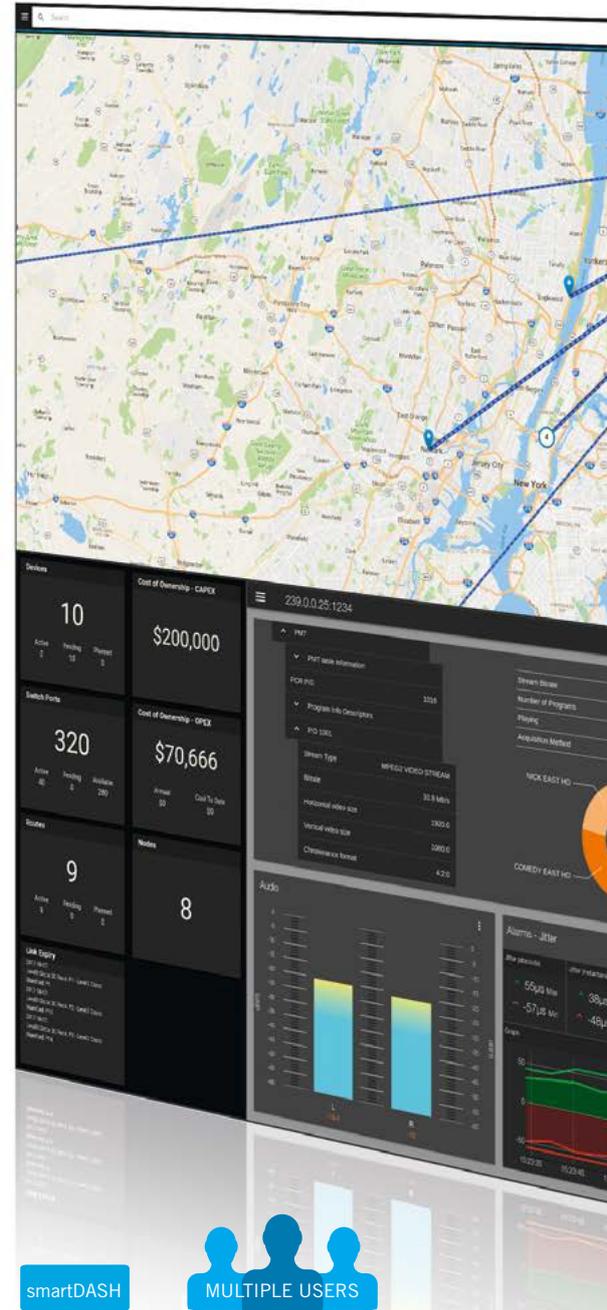
System Monitoring And Realtime Telemetry

### What is it?

The Lawo System Monitoring And Realtime Telemetry Dashboard (aka smartDASH) is a vendor-agnostic enterprise software suite designed to provide full network and media visibility across an all IP, all SDI or hybrid WAN/LAN broadcast infrastructure.

### What does it do?

Strategically positioned to bridge the gap between IT and Video engineering, smartDASH straddles both sides of the operation to provide a comprehensive view of what the network is doing and how the media streams flowing across the network are behaving. Based on a UNIX OS, this software defined networking solution incorporates a powerful and robust database to document and rapidly search any aspect of the operation, from a simple cable ID number to seeking the journey of a multicast across a transnational multi-hop WAN. Additionally, by leveraging a vast library of hardware communication protocols, the system automatically interrogates live and dormant path connections to create the most intuitive and data rich presentation layers of a COTS-hybrid infrastructure. With its award winning deep packet inspection microservices, smartDASH supports monitoring and decoding a wide range of media formats, from low bitrate OTT/ABR streams to uncompressed ST2110 studio production flows, in addition to characterizing the packet pacing off the delivery network. This unique approach brings a deeper dimension of operational visibility by unifying network telemetry and mixed media flow into a single glass view. smartDASH users have a zero-footprint installation and can be deployed on-prem, private or public cloud with HTTP accessibility from a browser or mobile device. This vendor-agnostic state-of-the-art software solution is an essential component to the conscious operation of any IP-based broadcast installation.



Have a look at the video:  
[bit.ly/watchLawoSMART](http://bit.ly/watchLawoSMART)



## KEY FEATURES

Scalable enterprise software providing data from every corner of your network

Effortlessly document all aspects of your media network and infrastructure

Keep track of device inventory, including warm and cold spares

Account for CAPEX and OPEX KPIs to manage total cost of ownership

Visualize connectivity and bandwidth usage with precision

Discover and trace live media flows from origination to destination

Convert network and media data points into actionable intelligence

Advanced telemetry agents provide in-service and out-of-service alarm generation and reporting

Real-time communication and telemetry from COTS platforms to third party purpose build equipment

High performance deep packet inspection of mixed media flows

Comprehensive and unified presentation layer dashboards

Improve your revenue through awareness, speed of data

# SMART

System Monitoring and Realtime Telemetry for Broadcast Networks

## smartSCOPE

### Deep Packet Inspection & Network Analyzer

#### What is it?

smartSCOPE is a media-agnostic, high density 24/7 analysis platform for IP flows in live production and delivery networks.

#### What does it do?

IP flows can frequently suffer from packet loss, jitter, encoding impairments and transport violations to name a few. Having the right monitoring and visualization technologies in place to proactively identify impairments and service disruption is imperative to the success of the operation. The smartSCOPE incorporates the essential analysis and decoding processing necessary to alert the operation tiers of service and packet transport related impairments for ST2110/ST2022/ASPEN production flows, linear MPEG services and over-the-top adaptive bitrate (OTT/ABR) defined streams. At the heart of the smartSCOPE, packets are processed for service compliance with also the unique ability to analyze the conditions of the delivery network. This dual focused analysis approach provides a clear demarcation between video delivery and video processing thereby drastically reducing the mean time to repair (MTTR) and eliminating finger pointing between transport and processing departments.



## KEY FEATURES

Acquires, decodes and analyzes media flows across multiple high capacity IP interfaces

Supported compressed formats: MPEG-2 TS, H.264, HEVC

Supported production formats: ST2022-6/7, ST2110-20/30/40, ASPEN RDD-37, PTP

Supported OTT formats: HLS, HDS, RTMP, DASH

Supported audio formats: AES67, PCM, MP1-L1, AAC, HE-AAC, A-52



## SPECS

Stand-alone application or seamlessly integrated with smartDASH

Available on HW / SW / VM / cloud platforms

2x 10GbE /40GbE

2x 4k/UHD or 4x 3G outputs (HDMI)

Up to 48 full HD decodes



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## SYSTEM MONITORING AND REALTIME TELEMETRY FOR BROADCAST NETWORKS

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