VB440 Appliance

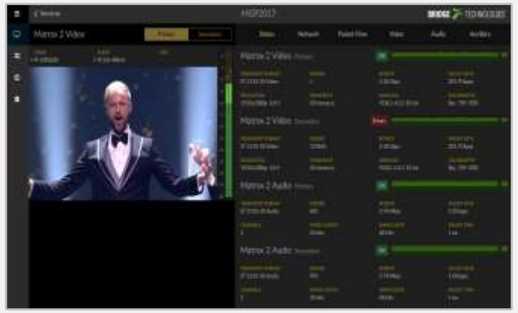
Monitoring, analysis & remote presentation

for production, contribution & playout facilities

Integrated Service Monitoring

CAMERA CONTROL VIEW

EXPERT VIEW



VBC MANAGEMENT & ARCHIVE

CONTENT EXTRACTOR

VB120 GigE / CABLE / TERRESTRIAL

RDW REMOTE DATA WALL

VB440 100G

VB330 10G

VB220 GigE **/** SATELLITE

MicroVB™

Example Broadcast

Example OTT

TV2
Stofa:
TV · BREDBÅND · TELEFONI
ESPN
Virgin media
itv
upc
Google
NRK
SKY
寬頻服務中心
tinp
mso
ONO
osn

Example Production

Playout, MCR & Contribution

Live Production

francetélévisions

VB440 Eco-System Partners

Strategic Partners

Leader

ARISTA

SONY

grass valley

matrox

RIEDEL

Densitron
Part of Quixant Group

NEC

ASTRO

pebble beach systems

imagine COMMUNICATIONS

Mellanox TECHNOLOGIES

Key Industry Associations

JT-NM.ORG SMPTE ST 2110 SELF-TESTED 03 / 20

JT-NM.ORG NMOS TR-1001-1 SELF-TESTED 03 / 20

AMWA Networked Media. Working.

AIMS Alliance for IP Media Solutions Member

SMPTE

VB440 Introduction - 1

VB440 Introduction - 2

VB440 hardware platform

COTS server

- 1 RU Chassis
- selected processor, motherboard
- dual 100G network interface

VB440 Application

Optimized RedHat OS & drivers

Capacity and Functionality Licenses

1. Monitoring & Alarming (40 Gbps – 80 Gbps)

- ST 2110-20/21/30/40, ST 2022-6 SDIoIP,
- 2022-7 redundant streams via dual interface
- PTP v2 SMPTE 2059 / IEEE 1588-2008
- NMOS IS-04/ 05/ 07 / 09 discovery & configuration

2. Concurrent Analysis & Remote Presentation Engines (2-8)

Network Analysis

Packet Flow visualizations, Flow PCAP capture

Network behaviouralism (explain and predict)

Low Latency Content Analysis

Video Waveform, Vectorscope and Diamond analysis

Audio (supports AES 67)

Ancillary Data Analysis

VB440 Applications

(any IP based media facility)

1. IP-Based OB Vans, PCRs

ACQUISITION & PRODUCTION

ENCODING

CONTRIBUTION & DISTRIBUTION

2. Centralised / Remote Production

ACQUISITION

PRODUCTION

ENCODING

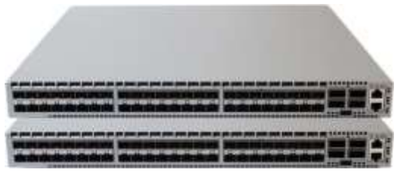
CONTRIBUTION & DISTRIBUTION

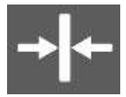
3. Contribution, MCRs, Playout Environments

2110 & 2022-6

PLAYOUT WITH REGIONALISATION

STORAGE or LIVE STREAMING





ENCODING

Monitoring, Analysis & Presentation

CONTRIBUTION & DISTRIBUTION

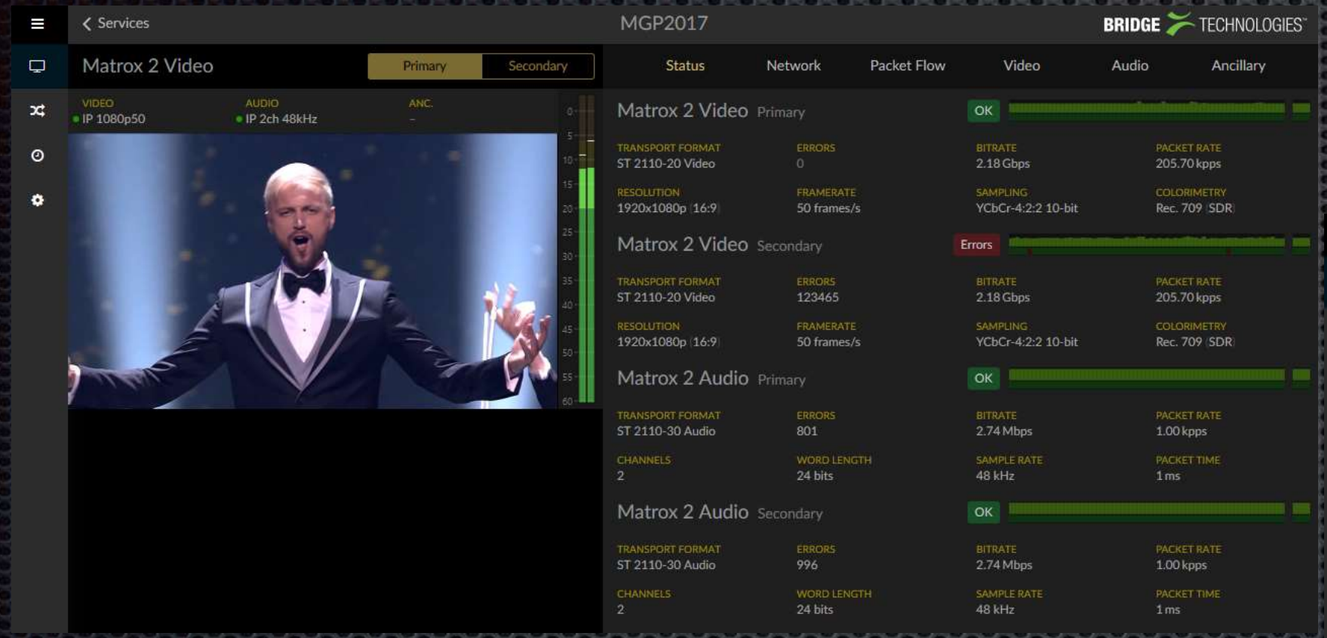
Compressed Range

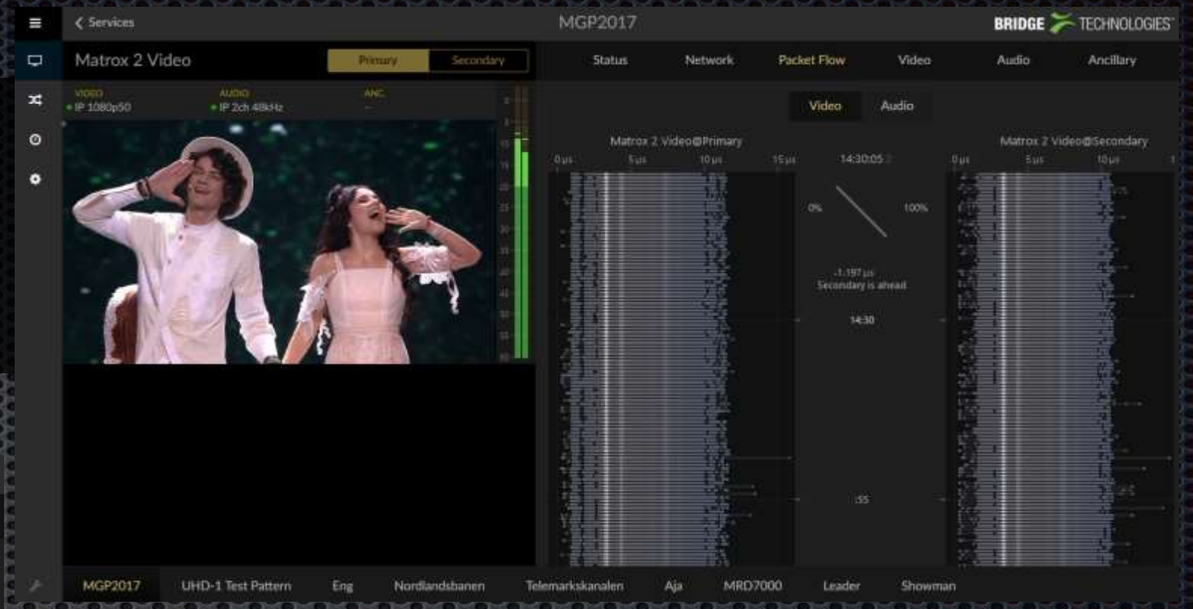
VB440 Views & APIs

Instrument View

Web-based interfaces for network & production engineers

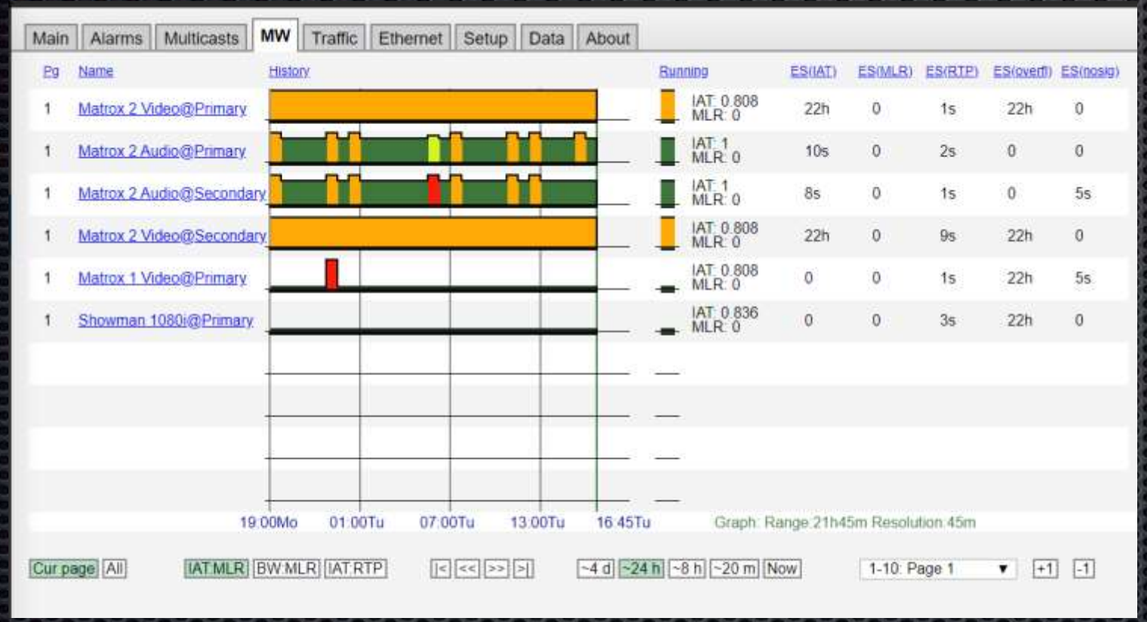
Analysis of stream, network and picture metrics

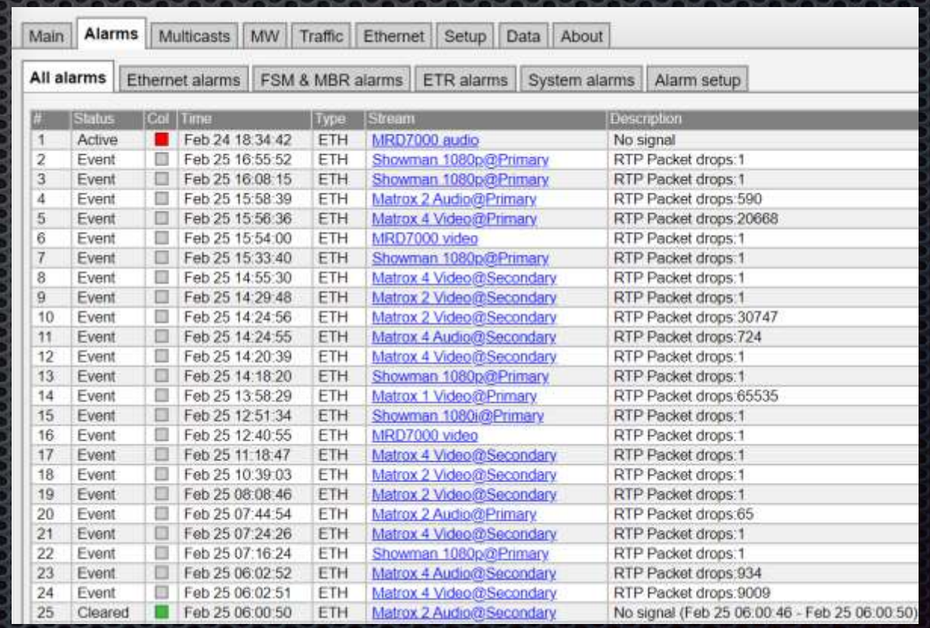




Expert View

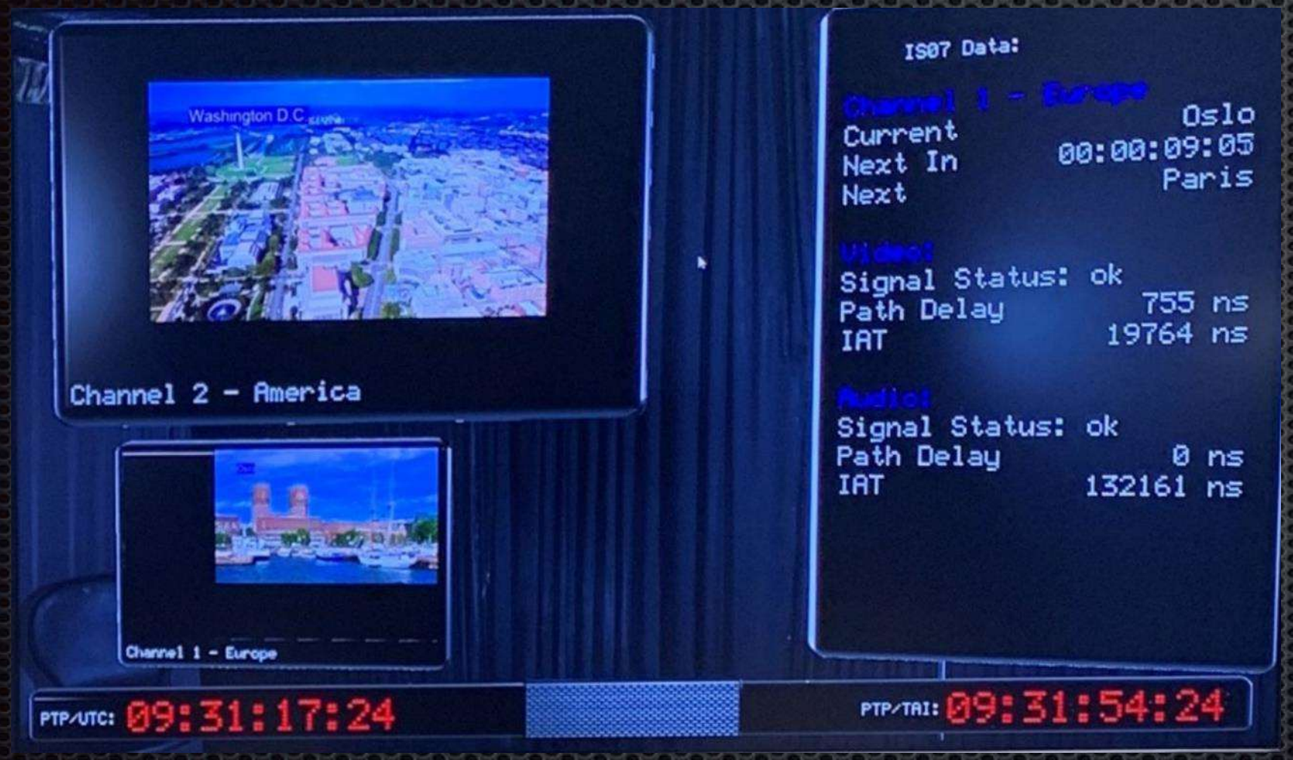
Web-based interfaces for network & production engineers
Detailed stream, network and picture Analytics





Widglets & API Views

Enabling custom media presentation



OB Van / Remote production example

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Thank You !

BRIDGE TECHNOLOGIES™