



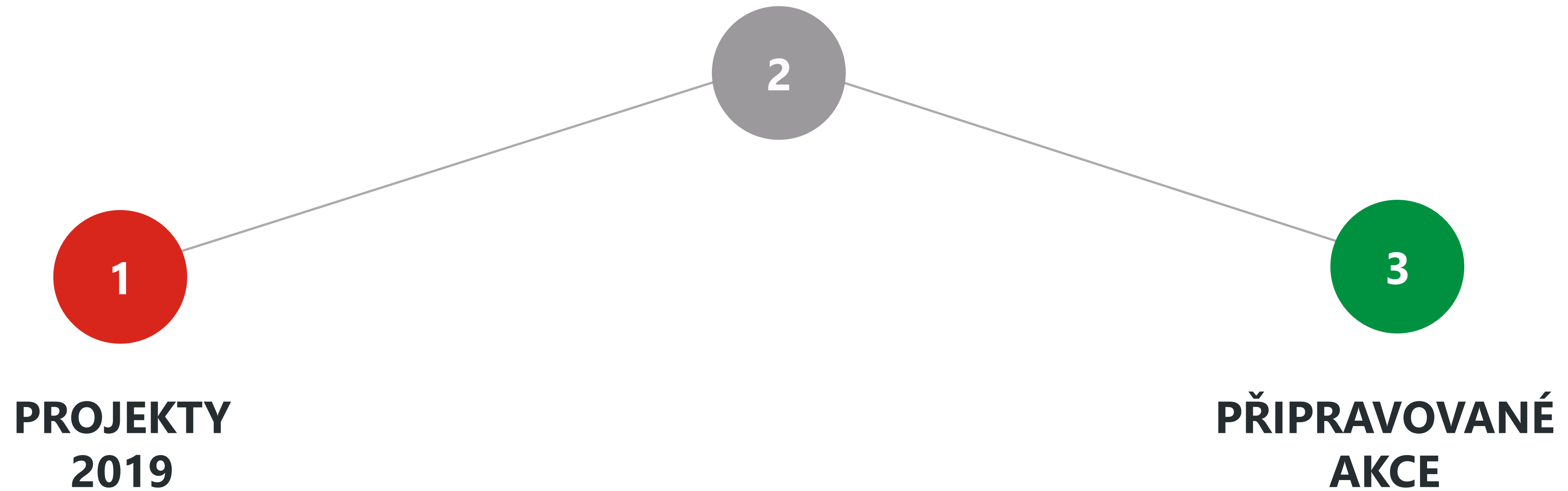
ABEX Post IBC 2019

Tomáš Veselý

O ČEM BUDU DNES MLUVIT?



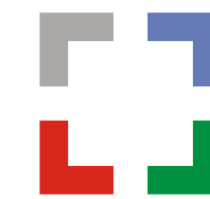
PARTNEŘI NA IBC 2019





Projekty 2019

Nové projekty 2019



PROJEKTY 2019

-  **TV Prima Harmonic playout**
-  **TV Prima nearline storage Isilon**
-  **Česká televize RK13 – Harmonic centrální ingest pro playout**





2019

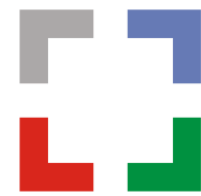


PARTNEŘI NA IBC 2019

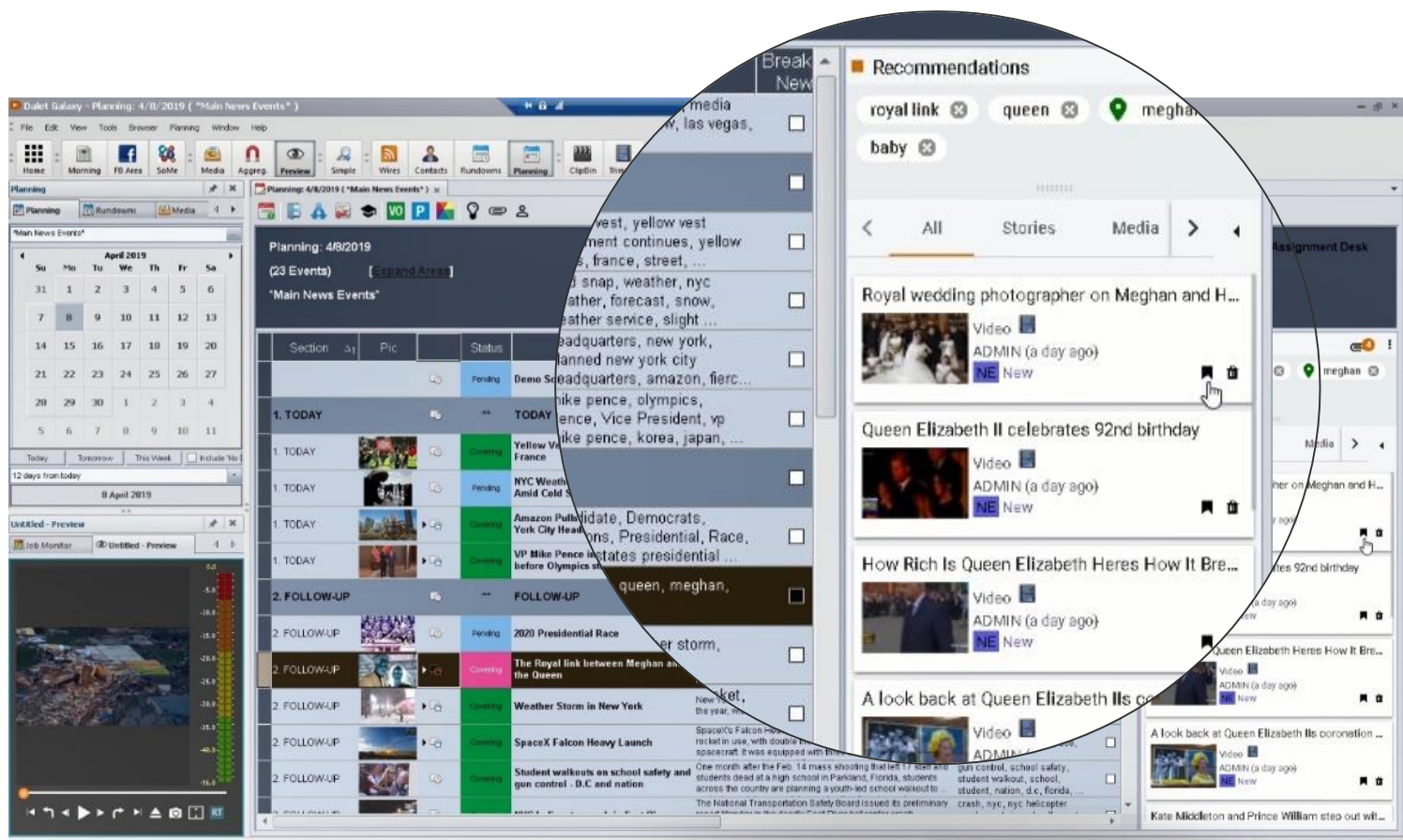
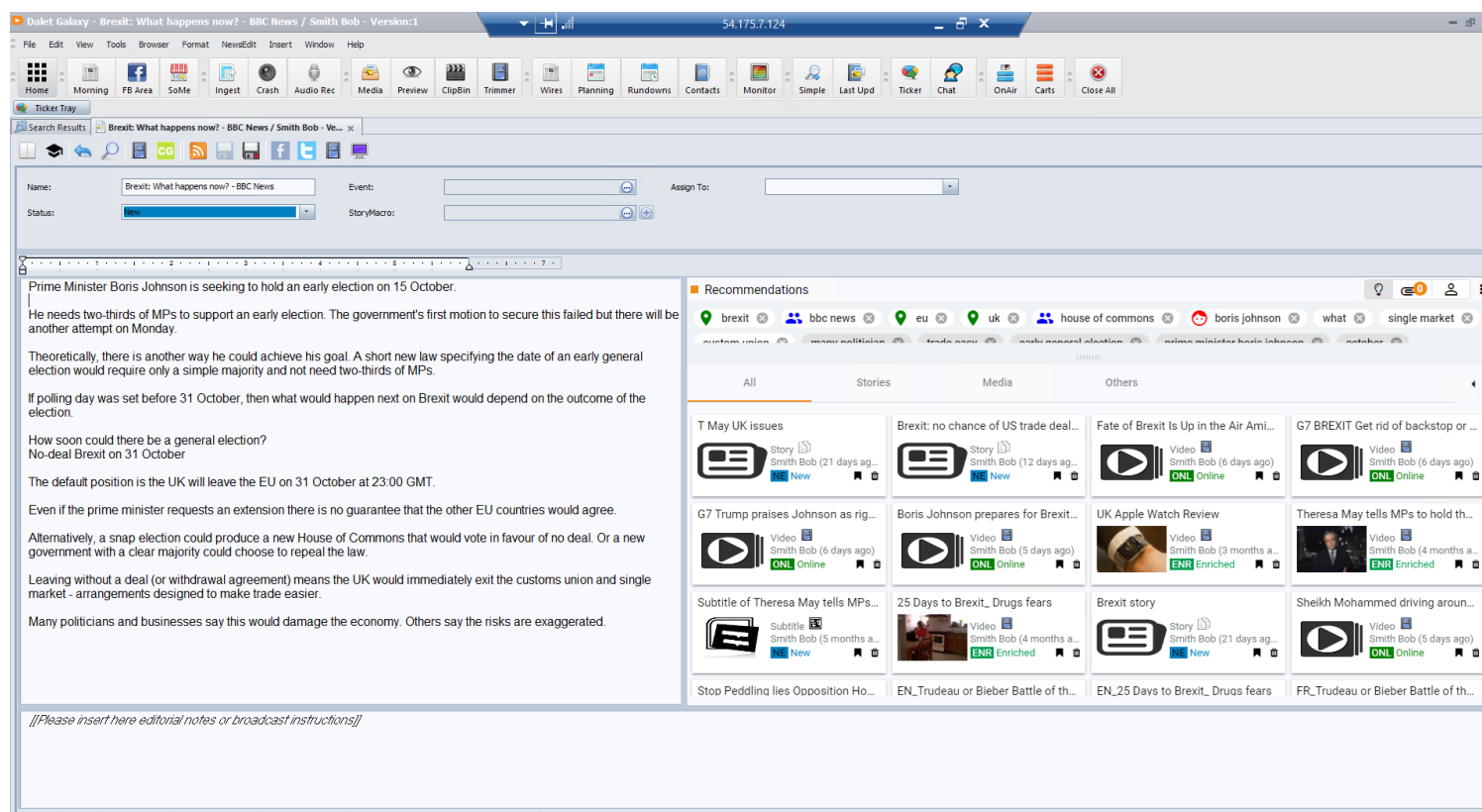


DALET

DALET



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Dalet **koupil společnost Ooyala** a implementuje jejich Flex Media Platform do Dalet Galaxy pro integraci s OTT a social media



Dalet **Media Cortex** – integrované AI do Dalet Media Workflow. Speech-to-Text – podporované jazyky: Arabic, Bulgarian, Catalan, Croatian, **Czech**, Danish, Dutch, **English**, Finnish, French, German, Hindi, Hungarian, Italian, Japanese, Korean, Latvian, Lithuanian, Polish, Portuguese, Romanian, **Slovakian**, Slovenian, Spanish, Swedish



Dalet **Discovery Board** – panel nabízející všechen relevantní obsah v závislosti na obsahu příspěvku (audio, video, fake news detekce, grafika,...) na základě analýzy obsahu pomocí Media Cortex



DALET



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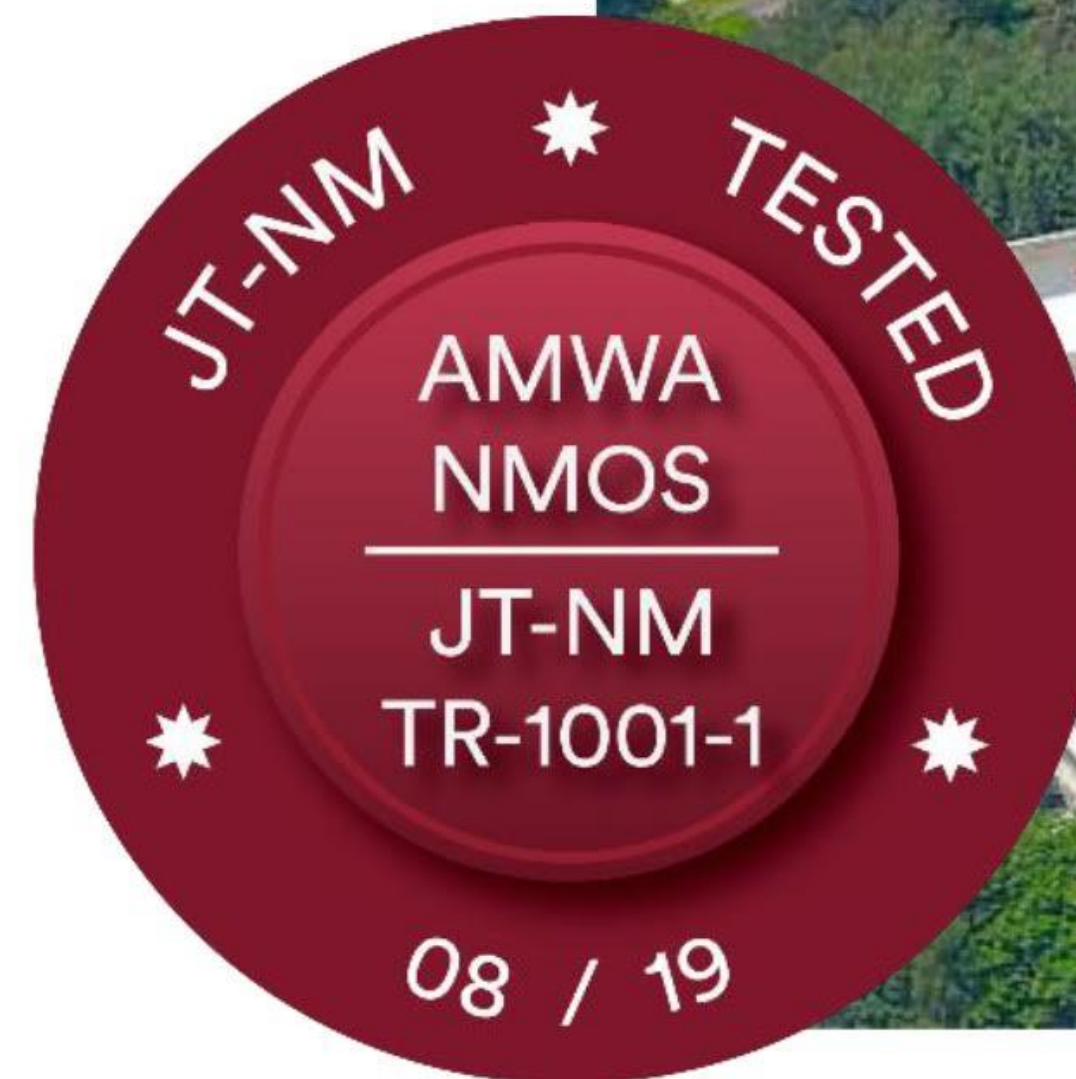
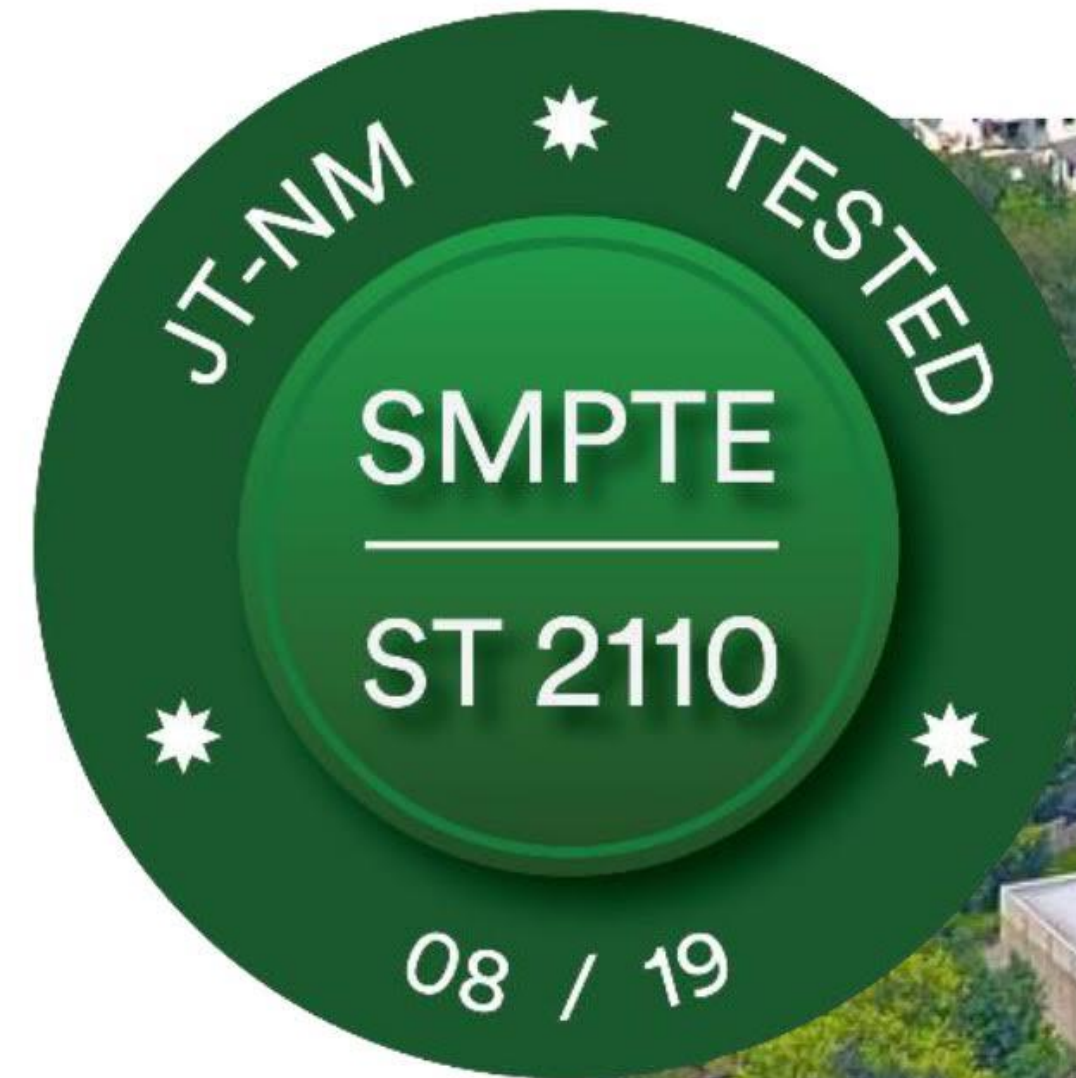
harmmonic®

JT-NM Tested – TR-1001-1



JT-NM TR-1001-1 Testing at Reidel, Wuppertal, Germany

- Event took place week of 19 August
- First event of its kind to test TR-1001-1 compliance
- Spectrum X tested with good results
- Spectrum X was featured in the IP Showcase booth at IBC2019



JT-NM
Sponsor

EBU **IRT** **BBC**
Test Administrators R&D

Faster, Simpler Integration of IP Media Networks



JT-NM TR-1001-1

System Environment &
Device Behaviors

Network Environment
PTP, DHCP, LLDP, DNS-SD
Discovery & Registration
AMWA NMOS IS-04
Connection Management
AMWA NMOS IS-05
Critical System Parameters
System Resource

Spectrum X supports TR-1001-1 for
smarter connection to media
networks

Plug into a compliant network and
Spectrum X is available to use in
minutes without manual
configuration*

- Video, audio and data flows are available as inputs and outputs automatically
- Control systems can route I/Os without manual configuration

* Applies to SMPTE ST 2110 and ST 2022-7 video, audio and data flows

Spectrum X Major Features for 2019

harmonic

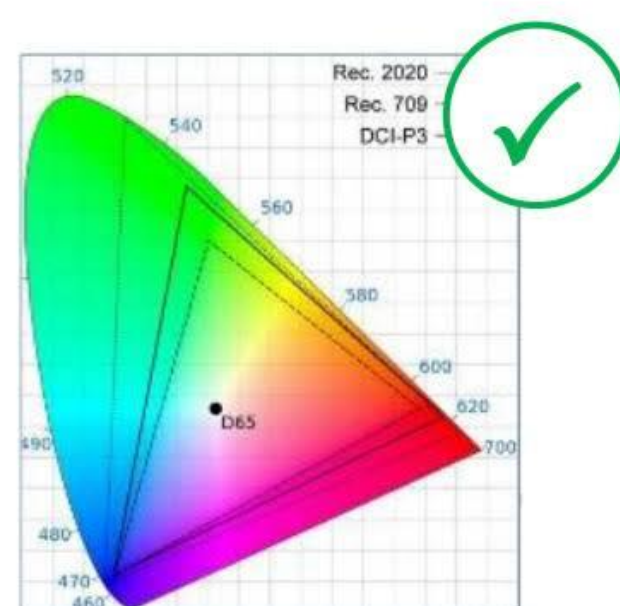
✓ = Released



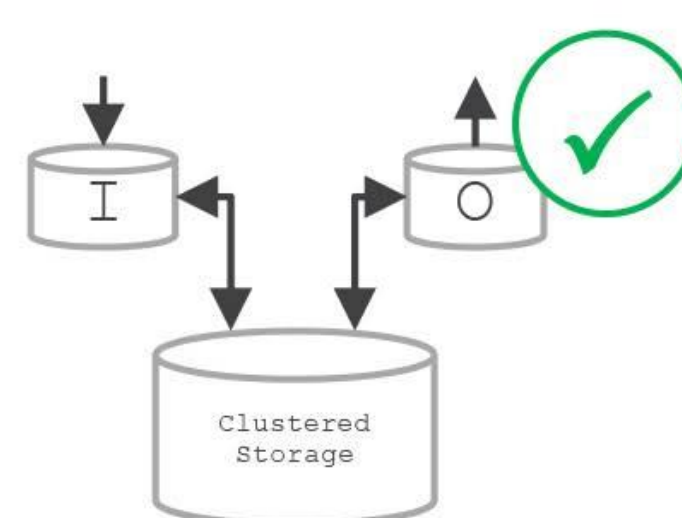
Virtualized Spectrum X



SSD Internal Storage

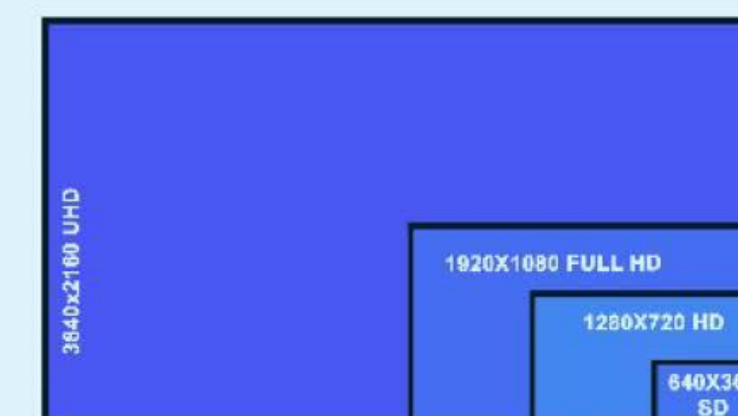


SDR <=> HDR Conversion



Ingest/Playout from MediaGrid

Virtualized Spectrum X Exclusives



SMPTE ST 2110 for UHD



HTML5 Graphics



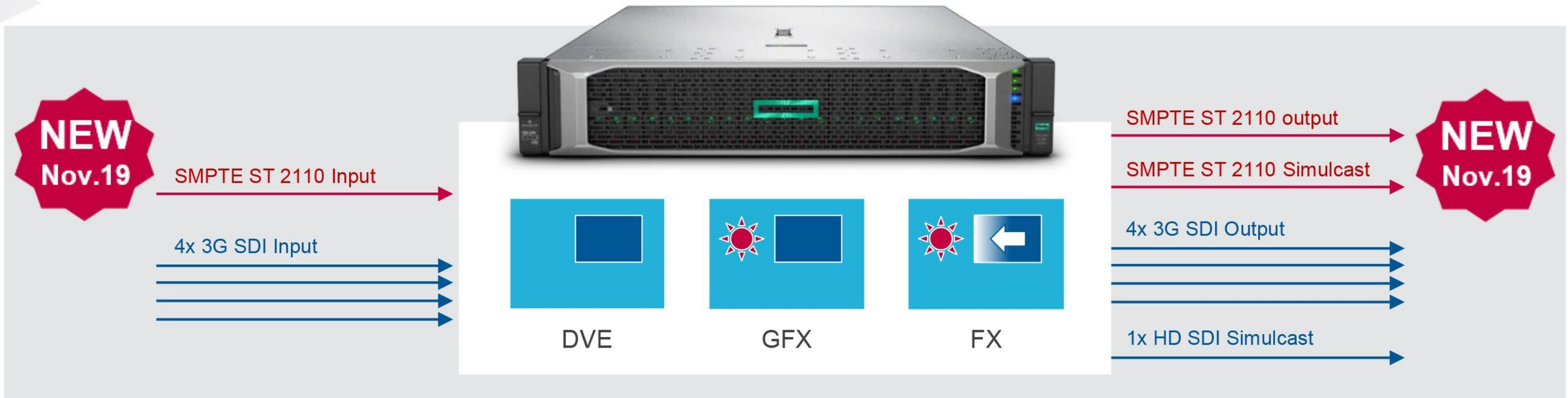
MediaGrid & Spectrum's System Manager connects to VOS Hub



Long GOP Class 200Mb

JT-NM TR-1001-1

UHD I/O for Virtualized Spectrum X in Production



INPUT

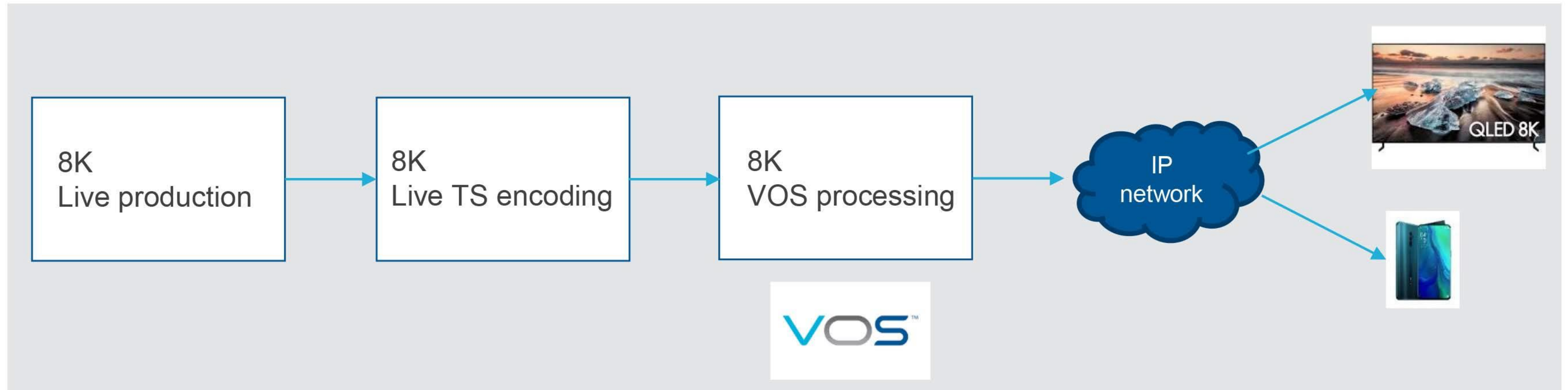
- SMPTE ST 2110 live & ingest
- 4 x 3G SDI live & ingest
- HD & UHD files
- input up conversion for switching between file and live

PROCESSING

- All internal processing is uncompressed in UHD BT2020
- HDR <>SDR with tone expansion & tone mapping
- Includes graphics, 1x 2D DVE and effects

OUTPUT

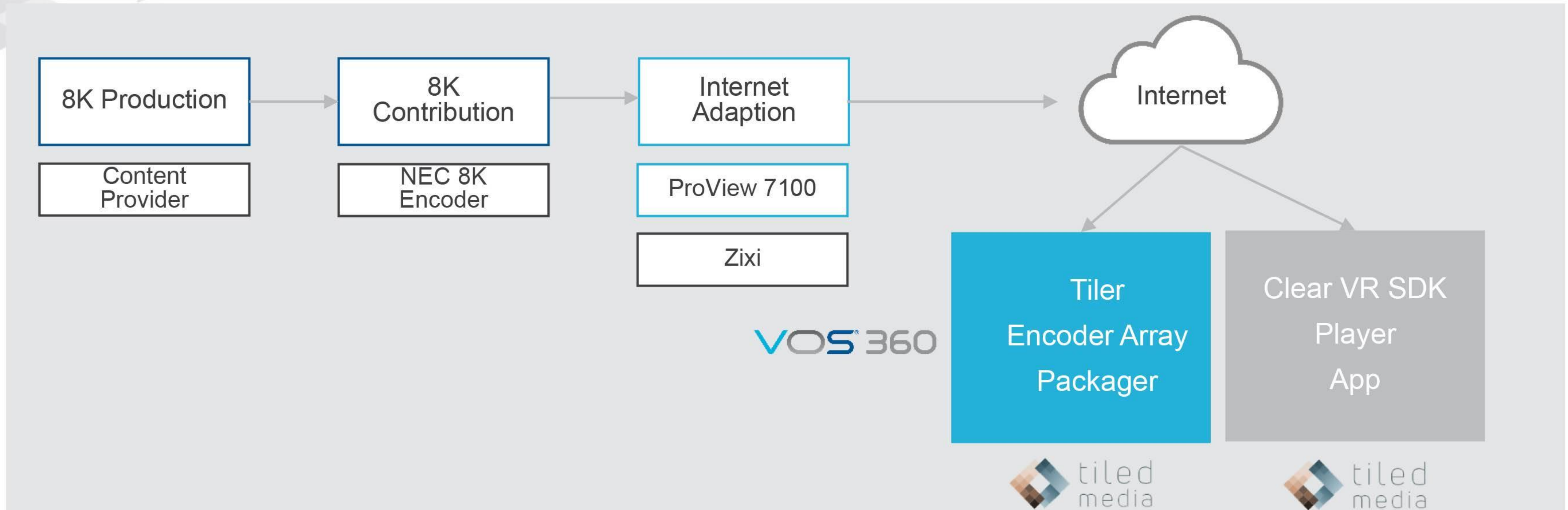
- SMPTE ST 2110
- 4x 3G SDI
- SDR or HDR
- Simulcast output HD or UHD, with graphics, 2110 and/or SDI



Key Messages

- 8K Live VOS system deployed for French Open using 5G
- WORLD FIRST - VOS Media processing: live packaging, catch up, VOD and off line ABR transcoding
- WORLD FIRST - Streaming to Samsung TV
- WORLD FIRST - 8K encoding using EyeQ CAE <30M/s

8K Personalized Streaming to Mobile



Key Messages

- Enrich your sport fan experience with an 8K personalized broadcast to Mobile device
- Application is at the stadium with 5G connection or at home using Fiber (<20M/s only needed per user)
- Playback of 8K Tiled content on tablet and STB with our partner TiledMedia
- SaaS the best approach for event-based sport content



PARTNEŘI NA IBC 2019

R||RIEDEL



PARTNEŘI NA IBC 2019

RIEDEL

Intercom Panel



Single Application

SmartPanel



Multiple Applications



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RIEDEL

Our SmartPanel Vision ...

	One hardware One view One function	One hardware Multiple views Multiple functions	One hardware One view Multiple functions
1200 series	Lever keys Talk/Listen & Talk/Mute 	Audio Monitor App / AES67 4-wire  OR Control Panel App  OR Intercom App 	Intercom AND Control Panel AND Audio Monitor 
2300 series	Push buttons Talk/Mute 	MediorNet Control App  OR Intercom App 	Mixed Apps 



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- nová generace matice Artist-1024
- univerzální karta CPU-klient
- licencování počtu portů
- MADI, AES-67, SMPTE 2110



RIEDEL

Avid - audio



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- nová zvuková konzole S4
- 8 – 24 faderů, 4 velikosti framu
- dostupnost ihned



Avid - audio



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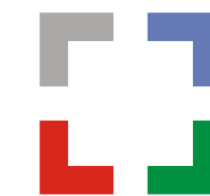
 nová zvuková konzole S1

 8 – 32 faderů

 dostupnost konec 2019

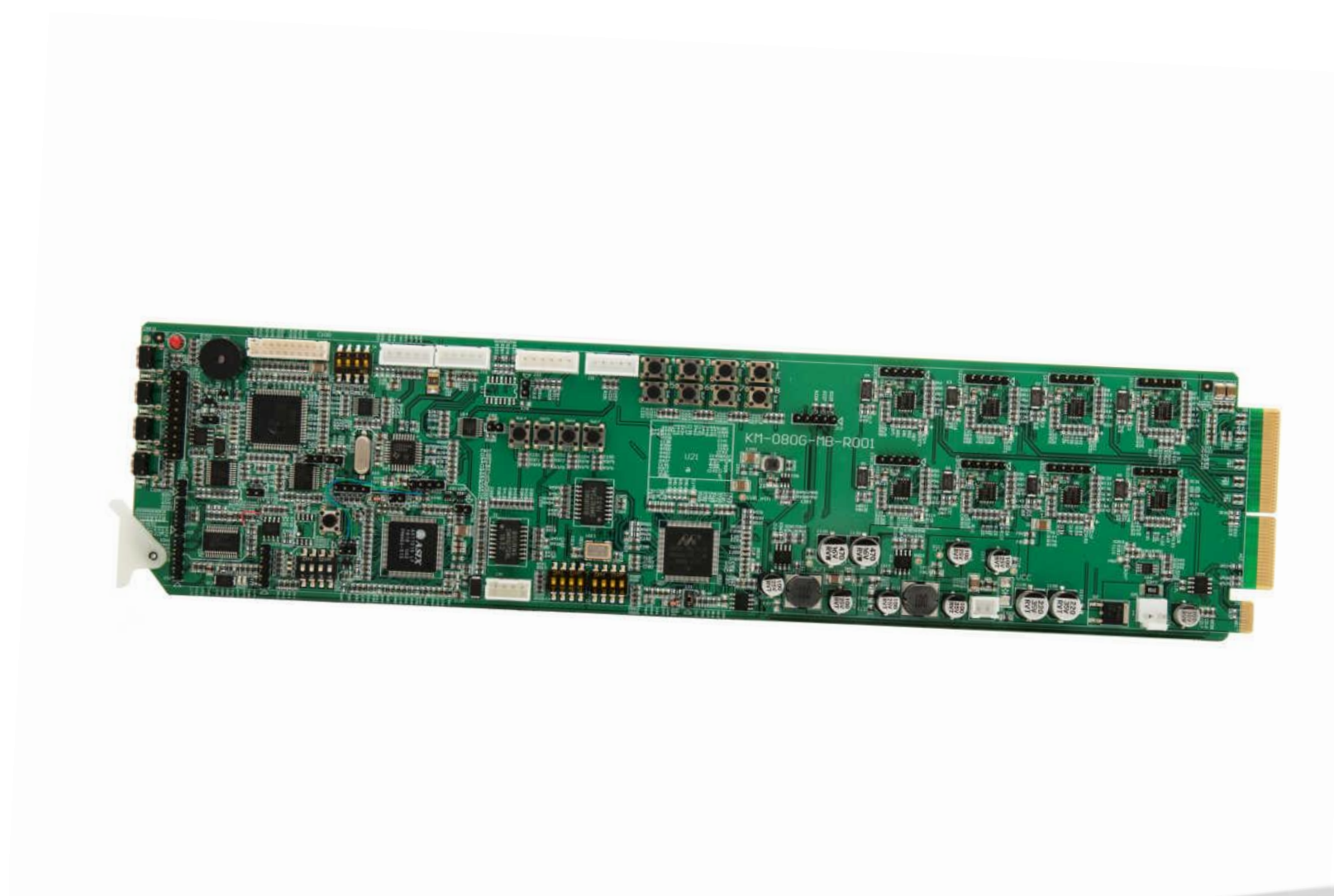


Apantac

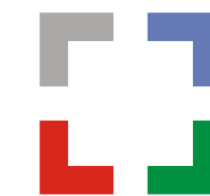


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- široká škála multiviewerů, novinka MV s UHD out
- KVM a extendery, nově po IP
- řada karet pro platformu openGear



MOG technologies



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- ☐ knihovny a SDK pro MXF, IMF
- ☐ Ingest, outgest, transcoding
- ☐ SDI, NDI, file, ftp, cloud, social
- ☐ flexibilní licencování, sw i hw řešení

mDECK



mediaMOVE



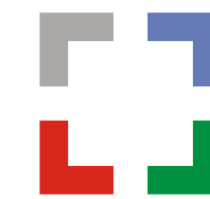
mog
exceeding media challenges

PARTNEŘI NA IBC 2019

- Společnost EcoDigital odkoupila **systém DIVA** od Oracle (20. června 2019)
- Důraz na vývoj produktu, inovace implementované do nových verzí, orientace na zákazníky
- Centrála EcoDigital v Atlantě kde je i divize R&D, od 1. září všechny nové i stávající smlouvy/supporty přecházejí pod EcoDigital.
- Support i operations team zůstává v Annecy - Francie
- Připravuje se release nové verze DIVA 8, podpora cloudového řešení



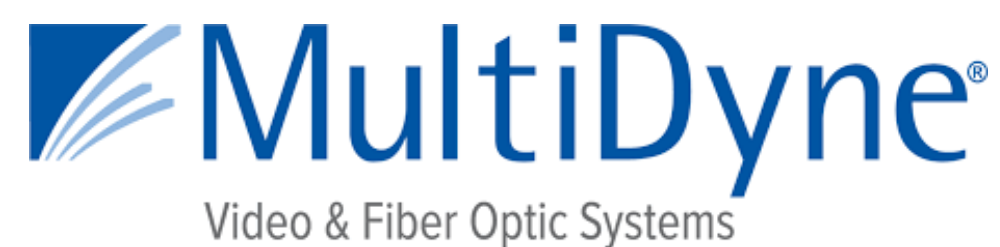
Noví partneři Smartu



PARTNEŘI NA IBC 2019



 **Netinsight - řešení pro remote production**



 **MultiDyne - výrobce fibre a video infrastruktury, open Gear**



 **Cobalt Digital - výrobce broadcast infrastruktury, open Gear**



Připravované akce

PŘIPRAVOVANÉ AKCE

SMART DAY 2019

Středa 9.10. 2019

Dell-EMC - Martin Lenk – Storage trendy médiích

Dalet - Olga Jedličková - Novinky v systému a AI

Arista - Herman Baan - IP v broadcastu

CatDV - SquareBox - Neil Bundle – Dostupné a flexibilní řešení MAM

Eco Digital - Rino Petricola a Dominique Bergeret - Budoucnost Diva?

Riedel - Ismet Bozkurt, Daniel Urbansky - Nové směry vývoje

MOG - Tomáš Strnad - Efektivní ingest a outgest medií

Harmonic - Velimir Godec - Novinky a zajímavé projekty

Streamstar - Rado Tóth - Ukázka remote production

Teracue - Marco Ehnig - Mobilní enkodéry

The poster for SMART DAY 2019 features a light gray background with a faint grid pattern. At the top left is a logo consisting of four colored squares (gray, blue, red, green) arranged in a larger square. To its right, the text 'Pojďte na to chytře!' is in a small font, followed by 'SMART DAY' in large, bold, black letters. Below this, the location 'Karlovo náměstí 19' and the date '9. 10. 2019' are listed. A red square icon precedes the text 'Kdy: 9. 10. 2019', and a blue square icon precedes 'Kde: Karlovo náměstí 19, 2. patro'. A list of participating companies is shown in a smaller font: Dell EMC, Riedel, Cat DV, Dalet, EcoDigital, Harmonic, Streamstar, and Teracue. At the bottom, there is a wide, horizontal image showing a person in a white shirt and dark pants running on a blue track, with a blurred background. Below this image, the Dell logo is on the left, and the SMART Informatics logo (with the same four-colored square icon) and the text 'BROADCAST AND MEDIA SYSTEM INTEGRATION' are on the right.

Pojďte na to chytře!

SMART DAY

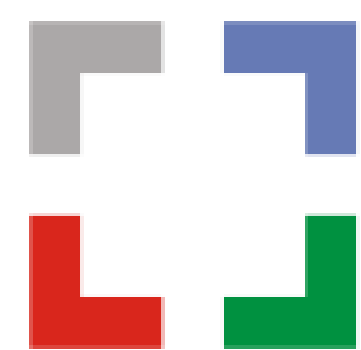
Karlovo náměstí 19 9. 10. 2019

■ Kdy: 9. 10. 2019
■ Kde: Karlovo náměstí 19, 2. patro

Dell EMC
Riedel
Cat DV
Dalet
EcoDigital
Harmonic
Streamstar
Teracue



 SMART Informatics
BROADCAST AND MEDIA SYSTEM INTEGRATION



SMART Informatics

Děkuji za pozornost

Tomáš Veselý

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