# EUROSPORT TECHNOLOGY TRANSFORMATION

Case Study Building a Private Cloud for Live Production



### Toda

- ★Ageing infrastructure
- Limited ability to enable change
- Limited flexibility and difficult to scale
- Technology not able to support new growth
- Escalating operating cost

### Future with ETT

- New infrastructure and technology approach enables location and business flexibility
- Common content platform for linear and digital
- Lowers technology cost of new services
- Enables faster time to market for new services and consumer testing

Cost savings, location flexibility and a true Digital/Linear Production environment

# Key Technology Challenges



- Transition to 2110 and AES67 audio
- Leverage public cloud and cloud stack where possible
- Centralized playout
- Central MAM and Content Storage
- Remote production

- Event-based production
- Resource management
- Live data graphics
- Ability to provide customized feeds for all digital platforms and linear services



#### Key Project Challenge – Time

## Key Technology Principles

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- Cloud approach for physical kit
  - Flexibility, scalability, redundancy, efficiency, evolution
- Common access to all content with distributed operations
  - Unrestricted support for digital growth
- IP provides the scale and flexibility needed
  - 10s of 1000s of video flows
  - Up to 32 discreet audio pairs per video
  - Dynamic system deployment and orchestration
- Remote production for all from simple to complex



- Huge amount of change and an aggressive project plan
- Vendor support for 2110 still evolving
- Industry has focused on IP and not IT
- No best practices for system and configuration management
- Breaking new ground with cloud deployment approach for traditional production kit
- Industry consolidation and transformation

#### Key Project Challenge – Time



Evolution of Virtualization for Live Production

DEDICATED HW On Premise

#### VIRTUALIZE MACHINES On Premise or Data Center

#### SHARED HW Data Center



#### Current ETT

### JT-NM TR-1001 – A Great Vision – But Not Reality Today





## Industry Encouragement



- Embrace, support and evolve IP open standards
  - NMOS, JT-NM TR-1001
  - We are fully supportive and hope that the industry and vendors enable greatly reduced installation times and simplified deployments
- Move from "IP Thinking" to "IT-Thinking"
  - IT-Thinking with regard to media is required to meet ETT's vision
  - NMOS and JT-NM TR-1001 provide some good building blocks but limited deployments and no defined industry best practices makes is very challenging

#### The industry needs projects to evolve and define best practices

## Industry Encouragement



- Create best practices for system management
  - Dynamic system configuration/management by spreadsheet is current practice (but not best practice)
  - There is a need for an IT-based approach to this problem using IT current best practices
- Encourage and evolve IT and Cloud approaches leveraging proven models
  - DNS, DHCP, CloudStack services, Micro Services and Cloud/IT application management/deployment
  - Aspects of system configuration and ongoing management is undefined
- Industry Partnership
  - Perhaps various industry organizations work together to address these issues?

#### The industry needs projects to evolve and define best practices

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