Telemundo On-Air with ST 2110

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The Goal

• NBCUniversal had plans to build a state-of-the-art facility for its growing Hispanic content business.

• This expansive complex would become the hub to produce more the 3000 hours of content per year.

• It would require a flexible, future proof technology environment for its 1,400 employees
The Build

13 - Adjustable Studios
7 - Production Control Rooms
75+ – Edit Stations and Suites

2110 – HD/3G and 4K
The Challenge

Production SDI Router Size is equivalent:

12658x13341

ALL 2110 Sources and Destinations

The Challenge

Acquisition SDI Router Size is equivalent:

12658x2270

ALL 2110 Sources and Destinations
The Challenge

10,000

10GbE Network Ports

Source: NBCUniversal Engineering
2110 Multicast Workflow

SDI to 2110 Encapsulation

Media Fabric Production Primary

2110 Multiliviewers

I/O Processing

2110 Multiliviewers

I/O Processing

SDI to 2110 Decapsulation

Media Fabric Production Backup

2110 Media Fabric

EXE Y1 Production Main

EXE X1 Production Backup

Edge Device

EXE Y1 Acquisition Main

EXE X1 Acquisition Backup

Edge Device

Source: NBCUniversal Engineering
The Challenge

600+

Devices requiring ST2059 PTP Timing

Source: NBCUniversal Engineering
The Challenge

Orchestration

150,000

2110 Multicast Flows
The Success

9 Months
From Pen to On-Air

The Lessons

• Importance of Interoperability
• Importance of Customer Knowledge
Thank You

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