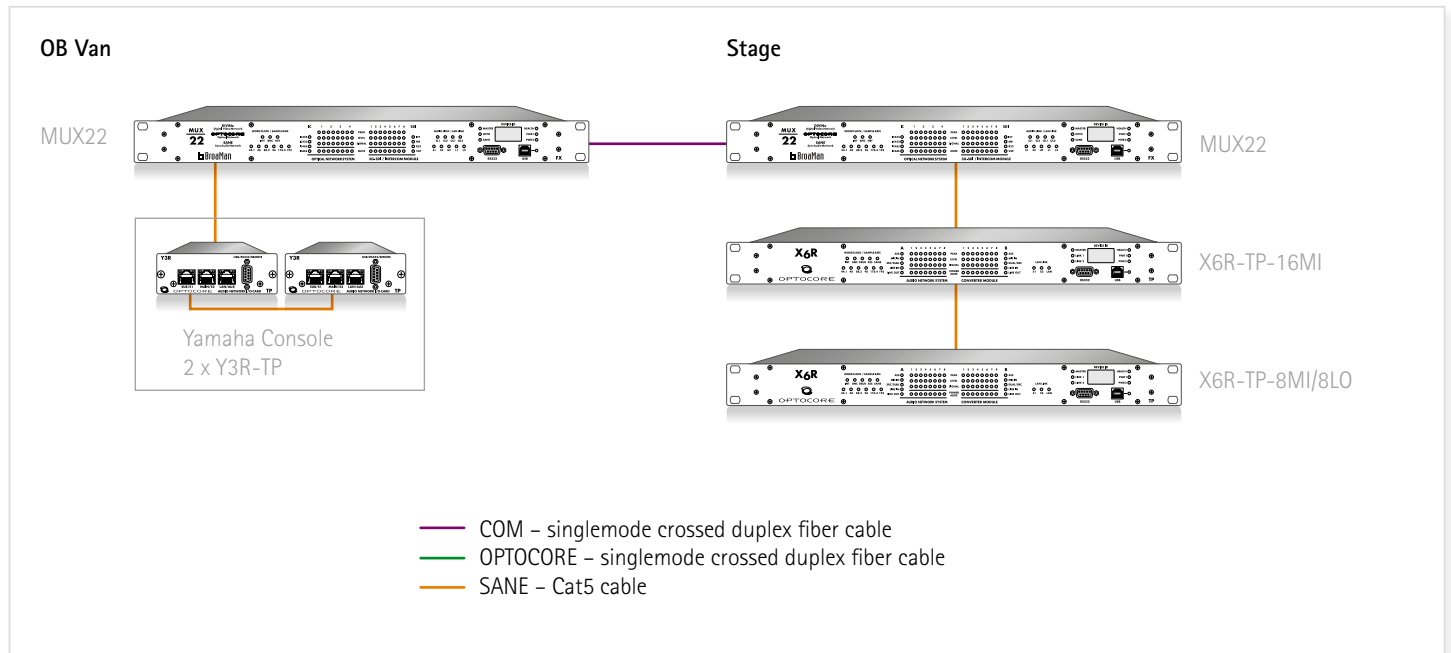# Application Example

OB Van Stagebox

CHALLENGES:

- Stagebox / floorbox for OB Van

- Connection between stagebox and OB VAN should use one standard SMPTE310m camera cable

- OB used mainly at sports events

DETAILED SIGNAL REQUIREMENTS:

- 4 bi-directional 3G-SDI video channels - inputs and outputs in OB Van connected to the large video router. Inputs in Stagebox connects to cameras, outputs provide video feed to preview monitors

- Audio console in OB Van is Yamaha

- Stage should provide connection to 24 microphones controlled directly from the console and 8 outputs for production monitoring

- RTS intercom matrix in OB should be connected to keypanels in commentary positions in the field

- LAN connectivity provides internet connection to commentary positions

- GPIO controls camera tallies in the field and in the commentary position

OB Van		Stage

MUX22 ──── MUX22

Yamaha Console
2 x Y3R-TP

X6R-TP-16MI

X6R-TP-8MI/8LO

—— COM – singlemode crossed duplex fiber cable
—— OPTOCORE – singlemode crossed duplex fiber cable
—— SANE – Cat5 cable

SOLUTION:

Stage / Floor box:

- 1 x **BroaMan Mux22** – provides 4 SDI inputs for cameras and 4 SDI outputs monitors as well as intercom connection for RTS panels, 4x LAN for internet and 4 x GPOs to control camera tallies. Floor box connects to OB Van through the standard SMPTE311M cable – uses only two fibers for connection, copper line is still available for other data or power

- 1 x **Optocore X6R–TP–16MI** – provides 16 Mic Inputs which can be directly controlled from Yamaha or other console

- 1 x **Optocore X6R–TP–8MI/8LO** – provides 8 Mic Inputs which can be directly controlled from Yamaha or other console as well as 8 Line Outputs for monitoring and mix minus

OB Van:

- 1 x **BroaMan Mux22** – provides 4 SDI I/O to connect video router in the Van as well as intercom 4-wire connection for RTS matrix, LAN for internet and 4 x GPI to control camera tallies

- 2 x **Optocore Y3R–TP** – integrates audio system with the Yamaha console. Enables the mic phantom and gain control directly from the sound desk. Mix minus can be sent from the desk back to the stagebox.

MAIN ADVANTAGES:

- System doesn't require special cabling – standard SMPTE 311m which is used for camera systems can connect OB Van with it's stagebox

- All audio and video and intercom channels can be routed through the complete network without bottlenecks or restrictions

- Compact 1RU interface in OB Van – saves space

- No fan in the devices – it can be mounted directly in the sound control area without any noise management or stagebox can be placed directly next to very sensitive microphone

- Direct Yamaha compatibility

- System allows future change of the audio console using the same front end. The same stagebox can be controlled from Lawo, Studer, Soundcraft, SSL and Digico

- Extremely good mic preamp quality

- Simple RTS intercom integration

- One software to control and monitor the complete system

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