FiberSmart

SPORTS
ENTERTAINMENT
VENUES

THE CASE SCENARIO: A STADIUM FOR A LIVE BROADCAST WITH 30 CAMERAS

Let's consider a case study of a stadium or an event venue with over 30 cameras for a live broadcast. The Live broadcast would most likely include 4K moving to 8K cameras, super slow motion, and ultra-slow motion of anywhere around 1000fps at 4K. This drives uncompressed video rates over 100Gbps per camera.

Each event requires the connection of the cameras at the chosen locations from the camera location through to the mobile or remote production unit, potentially with multiple networks as well as specialist systems. All the connections are currently made with traditional patch leads leading to several challenges:

CHALLENGES

01 Manual setup or teardown can be slow

02 There is a need for additional personnel onsite to meetup the coverage

03 Configuration is not flexible and can easily become complex

04 Risk of stranded capacity if links are not cleared end2end

05 Patching errors are bound to occur

06 Issues with the management of manual configuration

07 Configurations are difficult to repeat

SOLUTION: AUTOMATED VENUES

Layer 0 automation provides a dynamic optical fabric that allows the switching of any data rate or protocol that is fiber-based. All signals are passed passively, with minimal latency and zero impairment to the quality of the video signal. As opposed to the challenges, ROME offers:

Remote configuration & teardown which is faster & more efficient.

Full configuration within the venue or stadium achieved within minutes

Fully dynamic configuration allows for optimization

Protocol and speed agnostic

All resources are pooled for optimum utilization

Service restoration is done in minutes

Automated configuration management compared to manual management

Zero impact on video signals