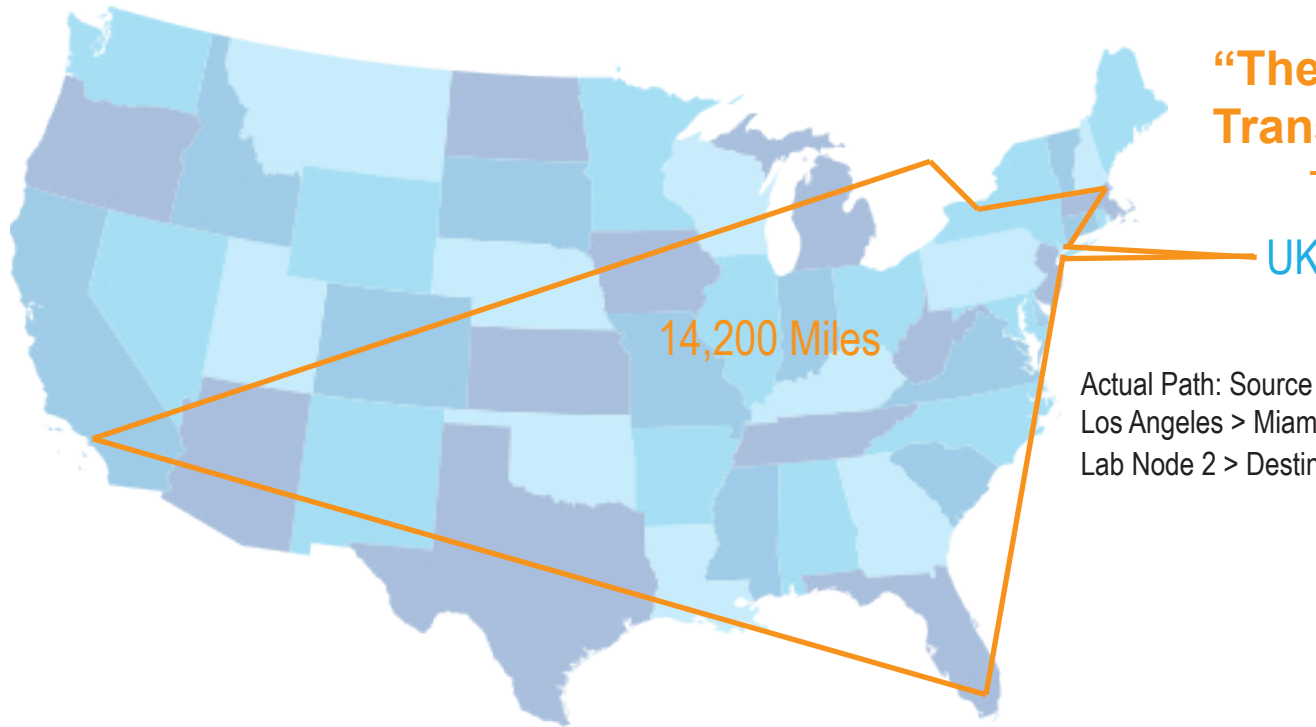


4K

Demonstration

In December of 2014, The Switch, in conjunction with Net Insight, demonstrated contribution quality, 4K Ultra-High Definition Television transport over 14,000 route miles of its Inter-City On Demand (ICOD) network. This represented the first field deployment of special 4K software just released by Net Insight that provides advanced internal synchronization capabilities to transport and reassemble master quality 4K U-HDTV transmissions.



“The Switch Network is Ready to Transmit 4K Immediately”

-Scott Beers, Chairman and CEO, The Switch

Actual Path: Source > Lab Node 1 > New York > Boston > Buffalo > Toronto > Los Angeles > Miami > New York (2nd Node) > London > New York (3rd Node) > Lab Node 2 > Destination

How Does The Switch Transport 4K?

The 4K signal is segmented into four quadrants, each of which are 3G or HD-SDI. These four signals are each presented as an individual input source at The Switch I/O panel at the venue or the customer location. The Switch JPEG2000 encodes each signal and they are then fed across our 20Gbps network, always 1+1 protected to the receive end where the four signals are synchronized and stitched back together to present one seamless image via four 3G or HD-SDI hand-offs.

Quadrant 1 3G Source or HD (1.5G) Source J2K Compressed	Quadrant 2 3G Source or HD (1.5G) Source J2K Compressed
Quadrant 3 3G Source or HD (1.5G) Source J2K Compressed	Quadrant 4 3G Source or HD (1.5G) Source J2K Compressed