

New Fiber Contribution Networks for Video

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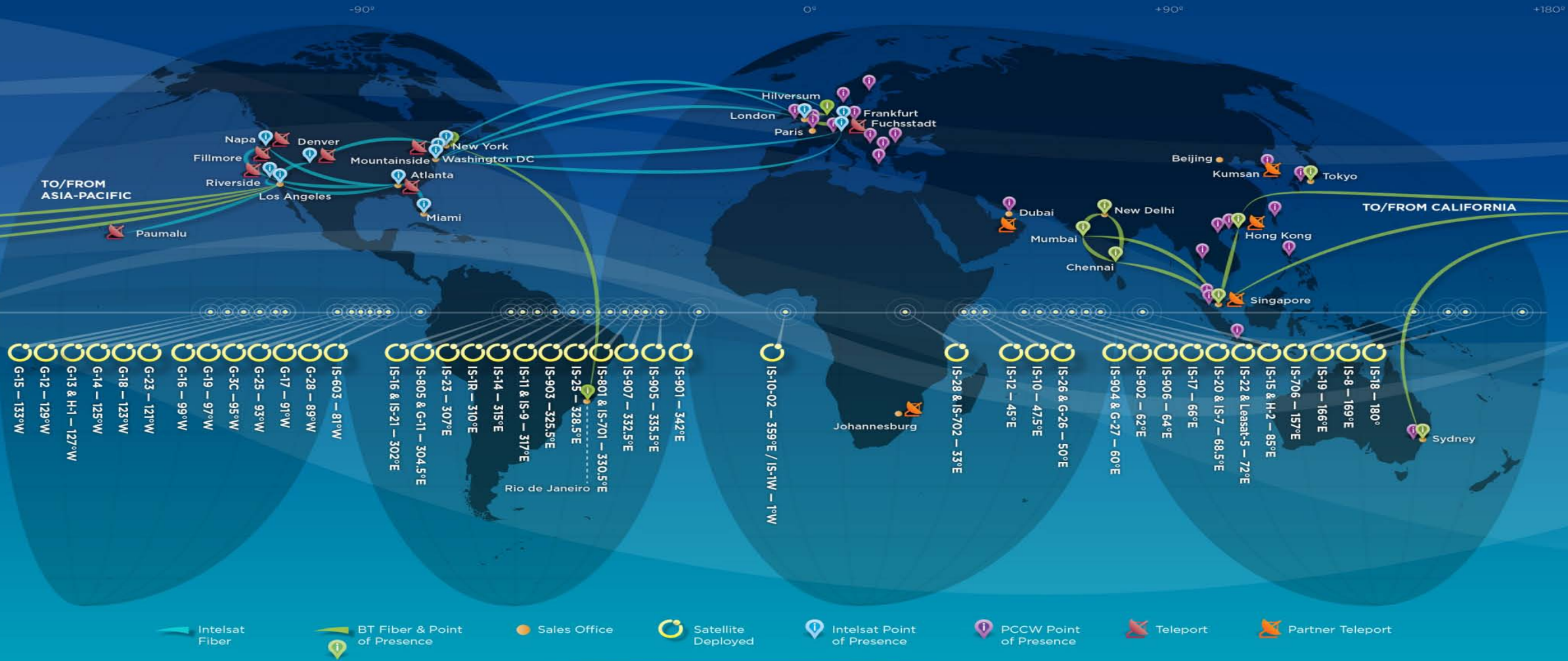
WBU/ISOG Forum, Geneva
November 19, 2014

Intelsat and Fiber Networks



- Fiber network operator since 2003
- Original network was ATM based
- Launched the IntelsatOne® IP/MPLS Network in 2010
- IntelsatOne today counts more than 36,000 miles and connects city and teleport PoPs in the US and Europe
- Onward connectivity to Europe, Latin America and Asia via strategic fiber alliance with BT

IntelsatOne[®] Global Hybrid Architecture



Satellite, Fiber, Teleports & MCPC platforms provide global reach

IntelsatOne® Media Fiber Network



- IP/MPLS based video network
- Teleports are connected via 3 physically diverse & vendor diverse fiber paths
- 3 or more fiber paths in/out of all key city PoPs
- MPLS Fast Re-route
- 1+1+FRR configuration for live video with clean/slipless switching at the edge
- Gold 99.99% SLA

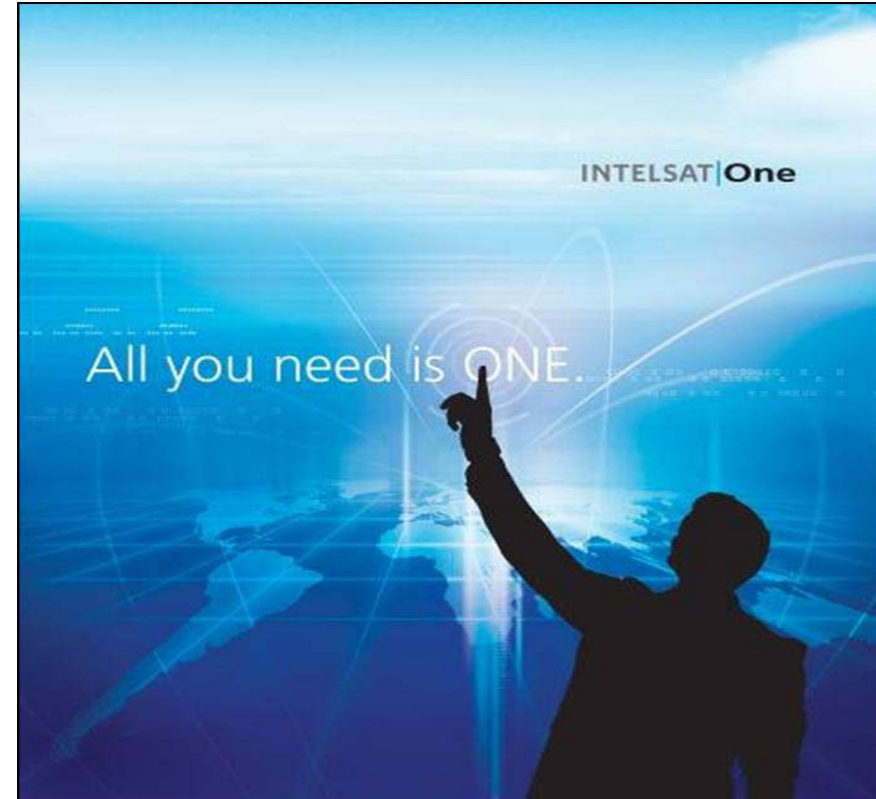
Challenges in Operating Live Video on an IP/MPLS Network

- Prioritization of live media content above all other applications/services
- Restoring services to default paths after fast-reroutes
- Accommodation for carrier SLAs that were established for data applications
- Network security



Taking Steps Forward to an All IP/Converged Hybrid Network

- IntelsatOne® network ready to support IP end-to-end
- Digital and Media Operations Teams merged into single unit - MSOC
- Teleport upgrades to support cloud-type networking solutions
- Next step is IP media over satellite



Fiber Alliance with BT-GMN

INTELSAT|One®



- Alliance extends IntelsatOne reach to customers in Europe, Latin America & Asia
- Interconnects in London, NY and LA
- ASI & IP format handoff between IntelsatOne network and BT-GMN
- OU connectivity to BT Tower
- More than just an interconnect – operational & engineering alignment and monitoring tools