



EV-DO Rev. B Multicarrier Technology Demonstration

March 2009

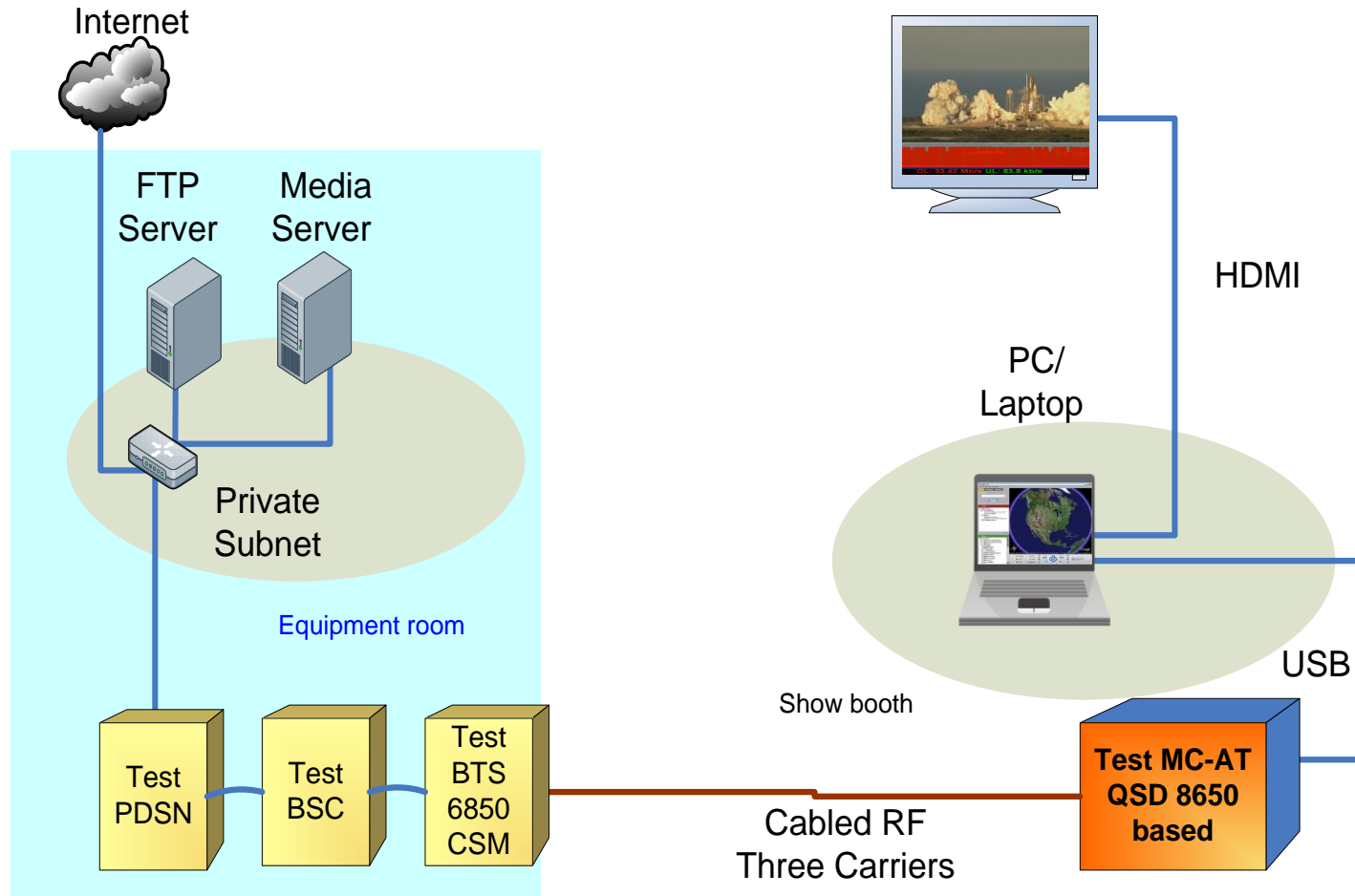


EV-DO Rev. B Multicarrier Demonstration

- Showcases Rev. B Multicarrier's higher data rates, higher capacity and enhanced user experience
- Aggregates three 1.25 MHz EV-DO Rev. B carriers with 64 QAM to achieve a sustained data rate of ~14.7 Mbps
 - Data rates showcased through HD video streams, FTP and high-speed web browsing
- Shows higher uplink capacity offered by interference cancellation (IC)
 - Video of EV-DO Rev. B uplink capacity with and without IC
- Features commercial ready CSM6850 and QSD8650 chipsets

Rev. B Multicarrier expected commercial in 2H 2009

EV-DO Rev. B Multicarrier Demo Set-up



Throughputs: Physical Layer ~ 14.7 Mbps; Application Layer ~ 12.5 Mbps

EV-DO Rev. B Multicarrier Demo Configuration

Equipment:

- ***Three paired Rev. B carriers (UL and DL) in IMT-2000 band (cabled)***
- ***Uplink: Peak rate ~ 1.8 Mbps / carrier***
- ***Downlink: Peak rate ~ 4.9 Mbps / carrier***
- ***Full Rev. B protocol stack at the BSC and the AT***

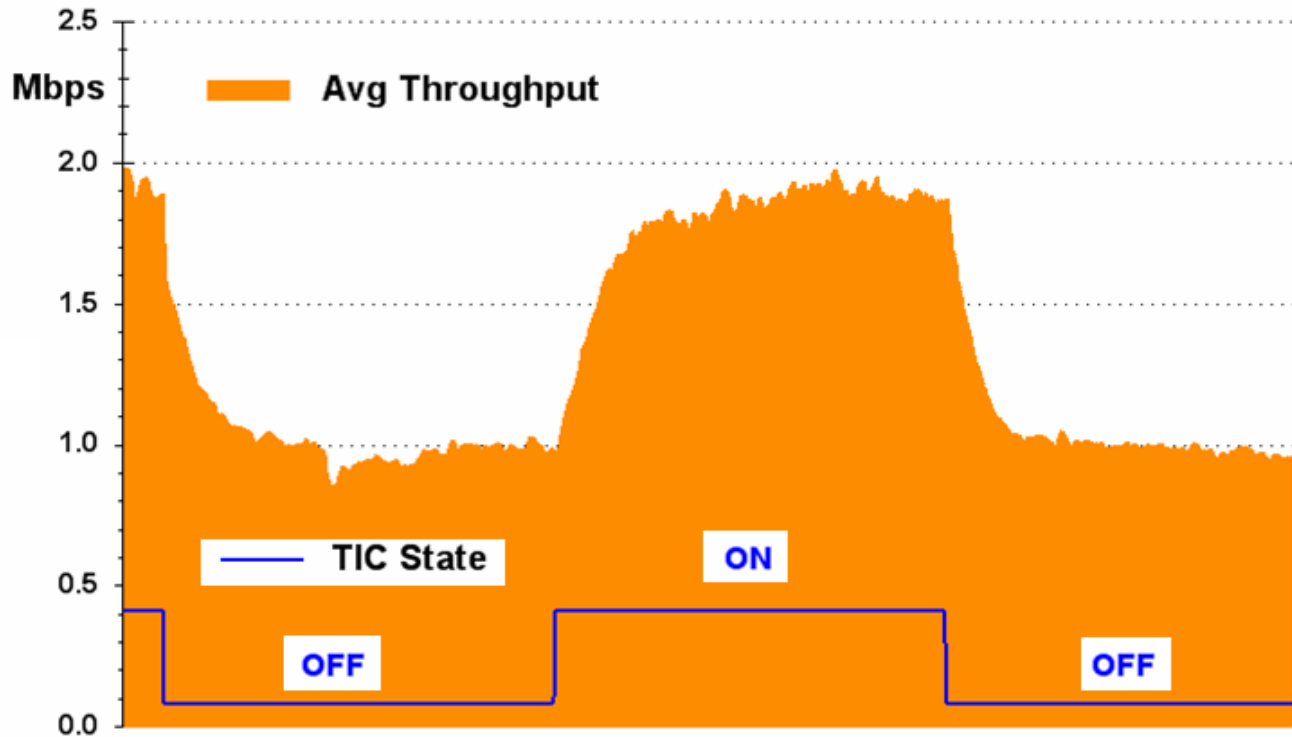
Application Layer Data Rates:

- ***HD Video Streaming ~12 Mbps***
 - ***Three streams of ~4 Mbps each***
- ***Optional FTP ~ 12 Mbps***
- ***Optional Web browsing - Variable***

Commercial ready CSM6850 and QSD8650 used in the demo

3G Interference Cancellation (IC) Demonstration

Video of CSM6850 based EV-DO Rev. B BTS uplink capacity with and without IC



TIC – Total IC

65% Higher uplink data capacity with IC