

CDMA Core Evolution



Indranil Chatterjee
Director, Wireless Market Development
Alcatel-Lucent
May 20, 2008

Trends in the Industry Provide an Indication of Wireless Usage and Impact on Networks...

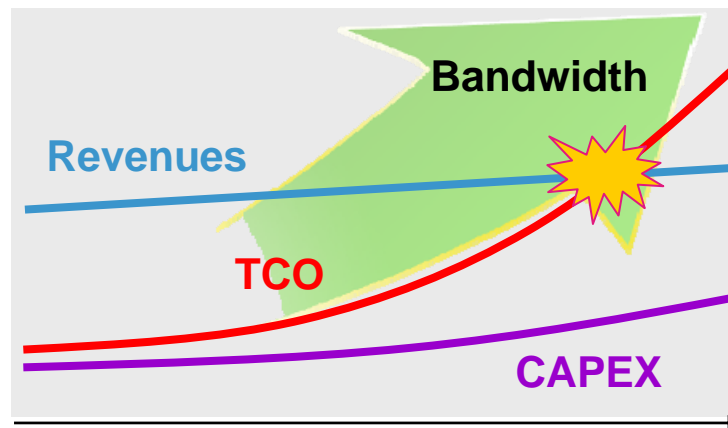
Terminal proliferation



Extend Services from Multiple Verticals



Competitive pressure intensification



Increase network bandwidth & cost-efficiency is key to match end-user expectations & competitive pressure

IP Transformation Across CDMA RAN, Transport and Core

- Start with existing CDMA networks
- Upgrade to EV-DO followed by Rev. A for data, start IP transformation in radio access & backhaul
- Upgrade core to IMS to provide VoIP and other IP based services

CDMA Core Evolution: Circuit to Packet Migration

CDMA2000 1X Network:

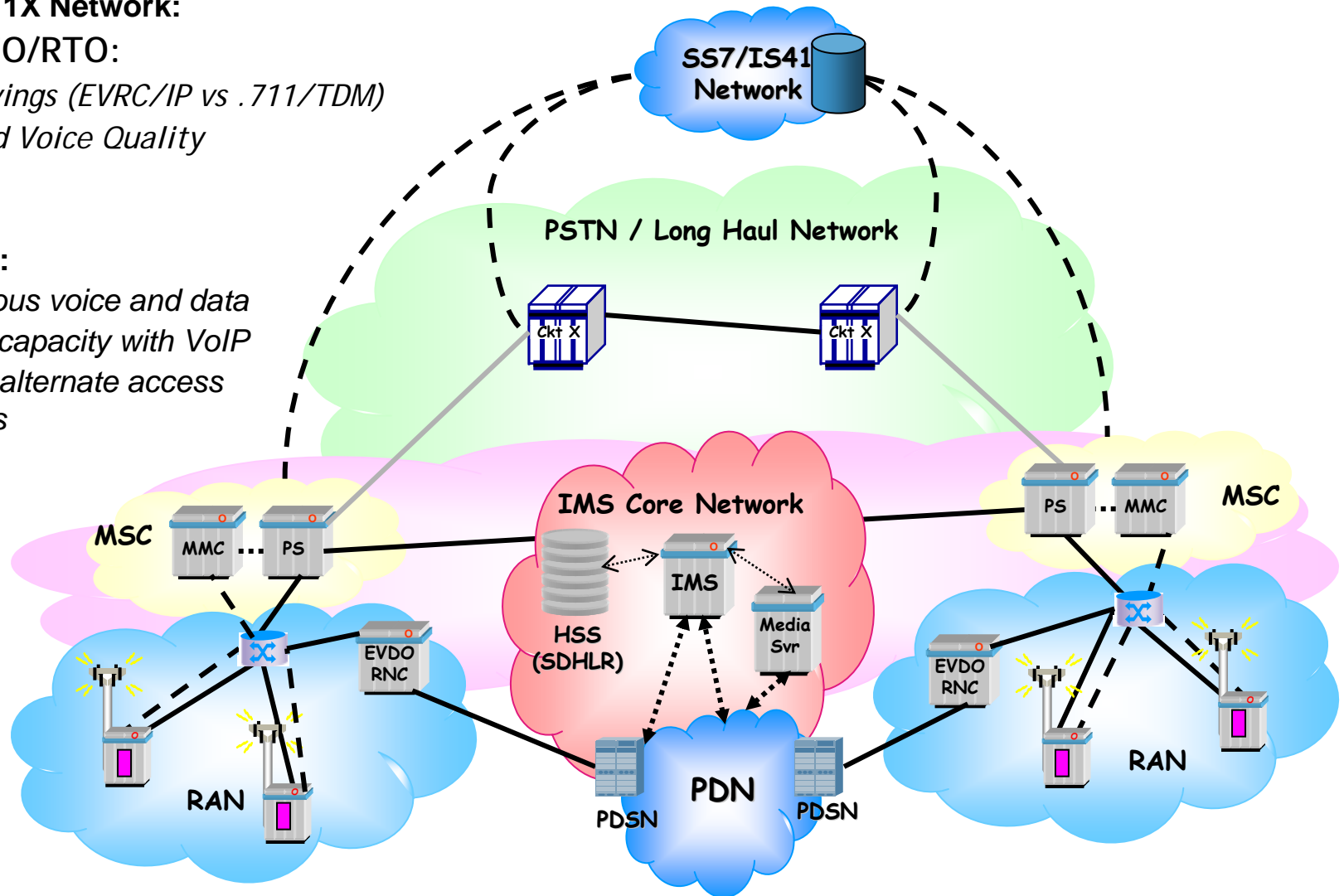
Deploy TrFO/RTO:

- Facility savings (EVRC/IP vs .711/TDM)
- Enhanced Voice Quality

Rev. A

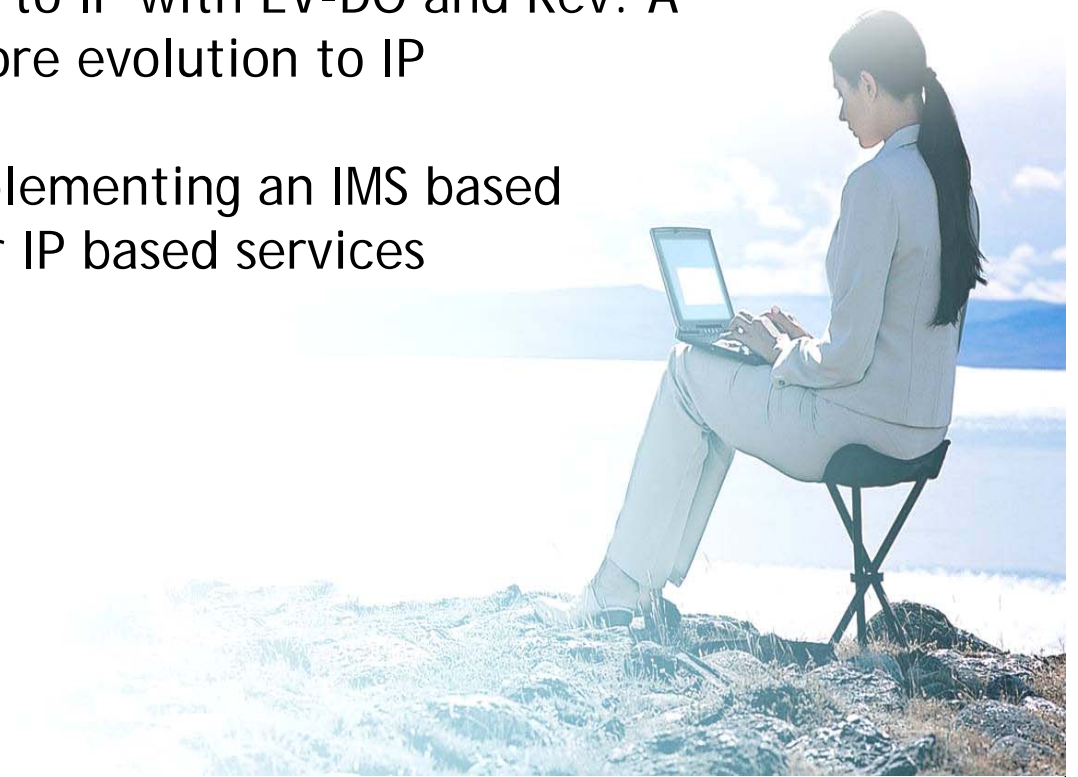
Deploy IMS:

- Simultaneous voice and data
- Increased capacity with VoIP
- Service to alternate access mechanisms (eg. WiFi)



Key Takeaways

- Enabling advanced services, with adequate capacity, scalability and low TCO requires acceleration of end to end IP evolution
- CDMA Offers access evolution to IP with EV-DO and Rev. A coupled with transport and core evolution to IP
- CDMA operators can start implementing an IMS based core to deploy VoIP and other IP based services over Rev. A in 2008



CDMA Core Evolution



Indranil Chatterjee
Director, Wireless Market Development
Alcatel-Lucent
May 20, 2008