



Wireless déjà vu
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Panel: Implications for Valuation: Part 1

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Agenda

- ▶ **VoLTE Overview**
- ▶ **Why VoLTE**
- ▶ **Initial Questions**
- ▶ **Discussion**

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VoLTE Overview

▶ **4G Voice (Voice over LTE)**

- ▶ IP based protocol
- ▶ Next generation of features and functions
- ▶ Requires a different handset

▶ **Network attributes**

- ▶ Future state
 - ▶ Voice and Data – 4G/LTE IP packet switched architecture
- ▶ Current state
 - ▶ Voice - 3G/2G circuit/packet switched network
 - ▶ Data – 4G/LTE IP packet switched network

▶ **Implementation**

- ▶ MetroPCS first carrier offering service
- ▶ All other carriers are in the process of migrating to VoLTE – could be as early as 2015/2016
- ▶ IMS adoption as standard

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Why VoLTE

▶ **Advantages/Benefits**

- ▶ Higher level of QoS
- ▶ New and enhanced features/functions
- ▶ Promotes more efficient use of spectrum
- ▶ Greater cost efficiency of network (lower cost)
- ▶ Optimizes network operation (better coverage)

▶ **Interesting considerations**

- ▶ E911 – how will location be determined in an all IP network
- ▶ CALEA – how will wiretapping work in an all IP network
- ▶ Hand-off (between carriers, between technologies, between frequencies)
- ▶ Handset commercialization
- ▶ Billing – no more minutes of use
- ▶ Phone numbers are IP addresses

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Same Old Questions/Some New Questions Sound Familiar?

- ▶ **What is replacement cost new?**
 - ▶ Greenfield – LTE or LTE/3G or current network configuration
- ▶ **How to calculate obsolescence?**
 - ▶ Functional
 - ▶ Economic
 - ▶ Decommissioning of equipment
 - ▶ Carrier specific – customer profile and handset considerations
- ▶ **Who are we?**
 - ▶ Arguably an all data network
 - ▶ Google, Microsoft
 - ▶ Legislative implications
- ▶ **Other questions to be addressed**
 - ▶ What are the carriers doing to prepare for this transition?
 - ▶ When will these issues become a reality?

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Open Discussion



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