

Advances in Wireless Technologies

Interop Las Vegas October 23, 2007

Fanny Mlinarsky President, octoScope

Fanny Mlinarsky



- President of octoScope, consulting company focusing on
 - > RF and wireless design
 - Network or device architecture
 - Performance verification
 - Product or architecture advocacy
- Founder and Chief Technology Officer,
 Azimuth Systems, leading wireless test platform for Wi-Fi and WiMAX test (10/01 10/06)
- R&D Manager, General Manager, Agilent Technologies for the WireScope handheld network certification and monitoring products (10/98 – 10/01)
- Founder of TGT, 802.11 committee defining test methods and metrics
- BS/EE, BA/CS Columbia University
- □ Contact: fm@octoscope.com 978-376-5841

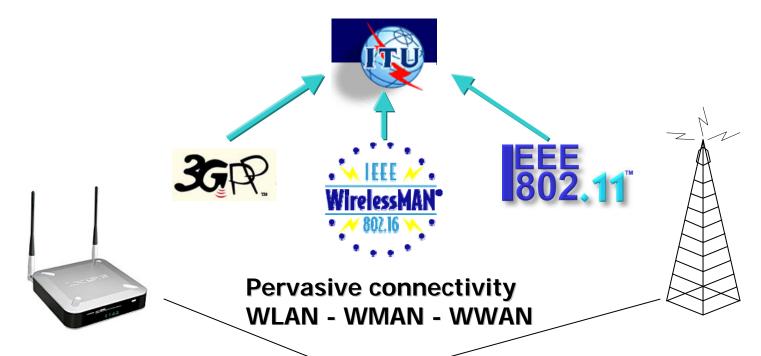
Azimuth Test Platform



Agilent WireScope

ITU-T Framework





ITU-T – United Nations telecommunications standards organization

Accepts detailed standards contributions from 3GPP, IEEE and other groups



IEEE 802.11 – WLAN (wireless local area network)

IEEE 802.16 – WMAN (wireless metropolitan area network)

3GPP – WWAN (wireless wide area network, cellular)

ITU International Mobile Telecommunications





□ IMT-2000

- Global standard for third generation (3G) wireless communications
- Provides a framework for worldwide wireless access by linking the diverse systems of terrestrial and satellite based networks.
- Data rate limit is approximately 30 Mbps



Detailed specifications contributed by 3GPP, 3GPP2, ETSI and others

IMT-Advanced

- New generation framework for mobile communication systems beyond IMT-2000 with deployment around 2010 to 2015
- Data rates to reach around 100 Mbps for high mobility and 1 Gbps for nomadic networks (i.e. WLANs)
- IEEE 802.16m working to define the high mobility interface

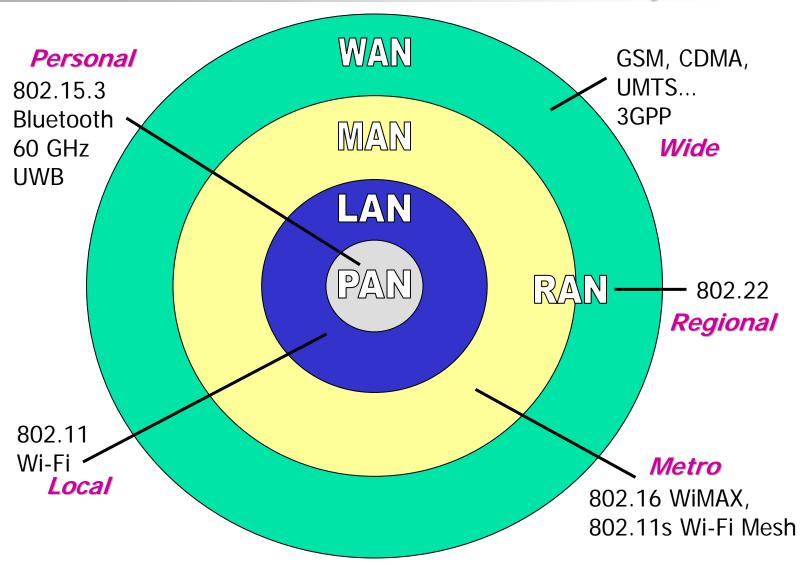






Wireless Communications





Panelists



- John Santhoff, Founder and CTO, Pulse~LINK
 - Ultra wideband (UWB)
- Abbie Mathew, VP BD, NewLANs
 - > 60 GHz video transmission
- Stephen Rayment, CTO, BelAir Networks
 - Wireless mesh metro applications
- Mathilde Benveniste, Research Scientist, Avaya Labs
 - QoS in wireless mesh networks