

# **ITU Workshop on “Origin Identification and Alternative Calling Procedures”**

**(Geneva, Switzerland, 19-20(AM) 2012)**

## **AT&T’s VoIP Experiences**

**Steven D. Lind,  
Senior Member of the Technical Staff,  
AT&T  
sdind@att.com**

# Early VoIP Exploration

- Provide VoIP transport over the AT&T long distance network
  - ➔ Used two-stage dialing
  - ➔ Normal originating and terminating access (i.e., local exchange carrier)
- Provide VoIP service as alternative to TDM service
  - ➔ Ported existing customer telephone number
  - ➔ Utilized existing customer broadband access

# AT&T U-verse<sup>sm</sup> Voice

- Through AT&T's IP platform, U-verse Voice offers powerful, advanced features integrated with U-verse TV, broadband and wireless services
  - U-verse Messaging combines AT&T wireless and U-verse voice mail so U-verse customers can access all of their voice messages anywhere, from any phone line or PC.
  - Voice mail can be listened to, managed and forwarded from the online portal, much like an e-mail inbox.

# AT&T U-verse<sup>sm</sup> Voice (cont.)

- Customers enjoy great sound quality and reliability, as well as innovative calling features
  - an online portal to manage your call preferences and settings from any PC
  - the ability to view your incoming calls and voicemail notifications on your TV with Caller ID on TV
  - the ability to view your Call History on your TV
  - The ability to initiate a call from your PC or TV using Click to Call
  - and more

# Enterprise Environment

Converged Mobility simplifies the heterogeneous environment to meet the enterprise need for access to any application from anywhere at anytime.

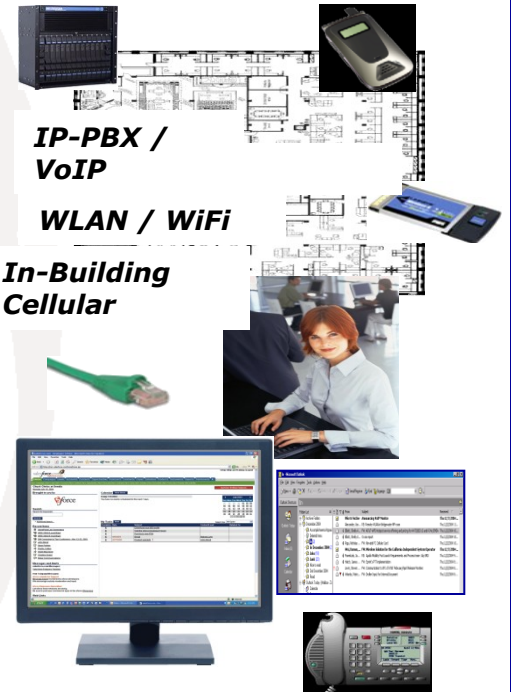
## Public / Private Access



## Service Provider Network

- Dial-Up PSTN
- Broadband
- Wi-Fi
- Cellular Voice
- Cellular Data

## Customer Network/Application



# CARTS

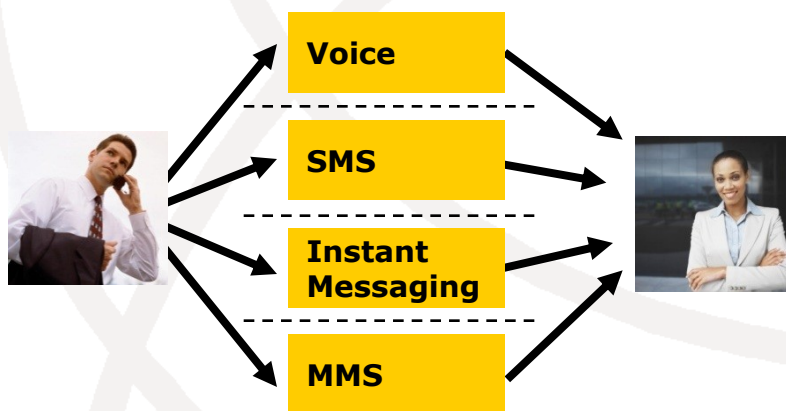
- **AT&T has designed a Common Architecture for Real-Time Services, CARTS**
- CARTS is based on 3GPP/IMS

# CARTS Service Enablement and Benefits

A major benefit of moving to an IMS core is the ability to offer converged services and applications in a single session using multiple modes of communications

## Pre-IMS Communication

### Multiple Sessions

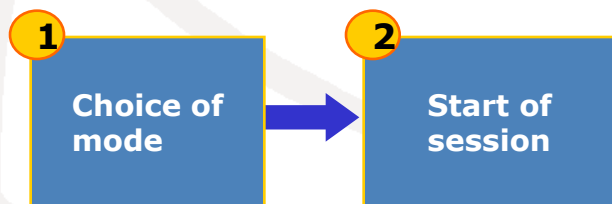


## IMS Supported Communication

### Single Session



### Multiple Modes of Communication



### Multiple Modes of Communication

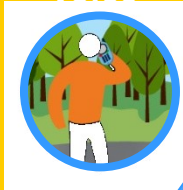


# Network of the Future

Shared Infrastructure

## Integrated Service Delivery Environment

Voice



Conferencing



Messaging



Video



Other Apps



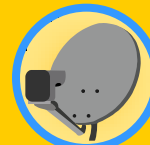
Your App



Pro of S Management  
of S Multiple Access Technologies Network Capabilities

Access/Device Independent Services

## Access Technologies



Multiple-User Devices

## End Devices



Multiple Personas

Geneva, Switzerland, 19-20 March(AM) 2012

