

# ITU-T / ATIS Workshop

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# Service Enablers

**Jim McEachern**

**VoIP Standards Strategy, Nortel**



# ATIS NGN-FG Service Enablers

- o Unified User Profile
- o Security
- o Service Decoupling
- o Presence
- o Service Transparency
- o QoS
- o Resource and Admission Control
- o Settlement
- o NGN Management
- o Multicast
- o E.164/SIP Address Resolution
- o Commercial Location-based Services
- o DRM
- o User control of profile / services
- o Media Resource Functions
- o Group Management
- o Emergency Related Services
- o Wireline/Wireless Convergence

Focus on 19 key Service Enablers

# ATIS NGN-FG Methodology

- o Gap analysis methodology
  1. identify gaps in the current standards.
  2. is a standard already in progress?
  3. is the gap in scope for existing work?
  4. is a new work item required?
  
- o Pseudo “Issue Statements” for gaps not yet being addressed

Action Plan for each Service Enabler



# Unified User Profile

- o Enables service capabilities to be accessed from a range of devices and locations
- o Gaps:
  - HSS is communications centric. Need to include applications centric view such as Web Services, IPTV and other applications.
- o Proposed Work items:
  - Profile attributes for IPTV (Issue S0027)
  - HSS / Web Services alignment (PTSC position - new)
  - IPTV dynamic, learned profiles (IIF analysis - new)

**Actionable Work Items Proposed**



# Security

- o Enables a secure NGN
- o Gaps:
  - Inconsistencies between X.800 & X.805
  - Various authentication mechanisms
- o Proposed Work items:
  - ATIS Security Baseline
  - NGN Authentication Mechanisms (Issue S0033?)
  - Comprehensive Security Architecture (new)

Open IP Architecture increases importance of Security

# Service Transparency

- o Enables services to evolve independent of the network.
- o Gaps:
  - End-to-end transparency (NAT, FW, etc.)
  - Transparency of service interworking
- o Proposed Work items:
  - None
  - All gaps being addressed by existing IETF and ATIS work

# QoS

- o Isolates QoS assured flows from interfering traffic
- o Gaps: Three gap areas identified.
  - QoS Specification
  - QoS Signaling
  - Resource Management
- o Proposed Work items:
  - NGN Performance metrics (new)
  - Perception based metrics (Augment existing work)
  - NGN QoS mapping (Augment existing work)
  - QoS Signaling technology assessment (new analysis)
  - Resource Management technology assessment (new analysis)
  - OSS-OSS QoS Support (new analysis)
  - OSS-OSS Resource management (new analysis)



# Resource and Admission Control

- o Enables real time services with required QoS
- o Gaps:
  - Signaling resource admission control
  - Harmonization of RAC across various SDOs
- o Proposed Work Items
  - RAC for signaling resources (Issue S0039)
  - ATIS position on harmonization of RAC standards (S0019)





# Digital Rights Management (DRM)

- o Enables distribution of content with copyright protection
- o Gaps:
  - No generic gaps, although there may be application specific gaps
- o Proposed Work Items
  - No additional common DRM work required
  - application specific DRM out of scope of NGN



# Emergency Related Services

- Enables priority treatment of emergency calls
  - Emergency Telecommunications Service (ETS)
  - Next Generation 911 (NG9-1-1)
- Gaps:
  - Coordination of NG9-1-1 across W-, W+, VoIP, etc.
  - End-to-end architecture
- Proposed Work Items (augment existing work)
  - NG9-1-1 end-to-end functional architecture
  - NG9-1-1 Emergency Services design recommendations

## ATIS NGN-FG Service Enablers

- o Areas where gaps identified, but being addressed by existing work items:
  - Presence
  - Settlement
  - NGN Management (OAM&P)
  - Multicast
  - E.164/SIP Address Resolution
  - Commercial Location Based Services
  - User control of profile / services
  - Media Resource Function
  - Group Management



# Conclusion

- o Key NGN enablers identified
- o Gaps in standards highlighted
- o Action plan in place to address gaps