

ITU-T / ATIS Workshop
“Next Generation Technology and Standardization”

Las Vegas, 19-20 March 2006

**ATIS – IPTV Interoperability
Forum (IIF)**

Steven Wright

BellSouth

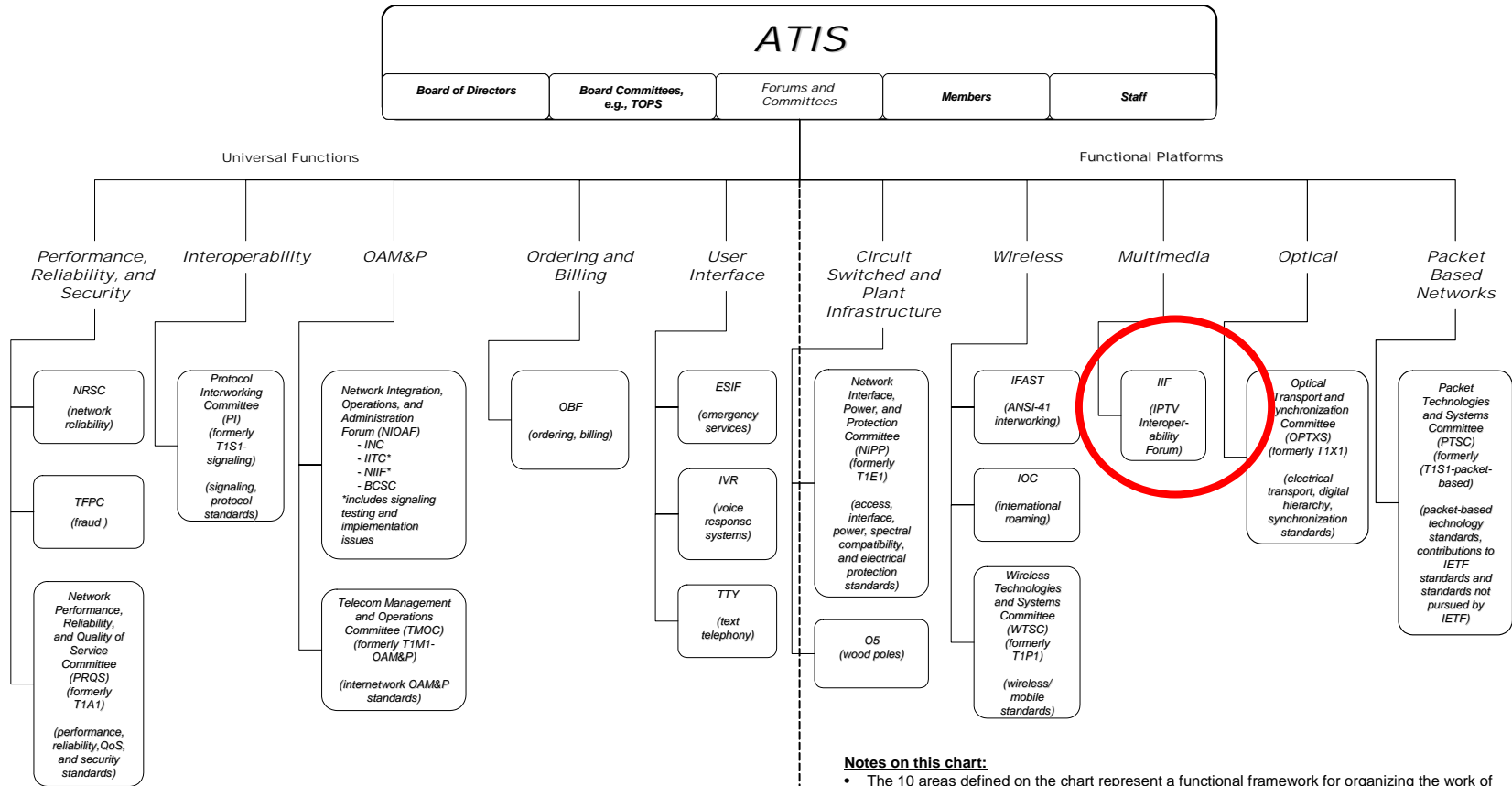


2005 and Current TOPS Work Areas

- Next Generation Network (NGN)
 - Part I - NGN Definitions Requirements and Architecture:
 - Part II - NGN Roadmap 2005
 - Part III: Gap Analysis -- Currently in development
- IPv6 Task Force
- IPTV Exploratory Group (IEG)
 - Organized in March 2005
 - Recommended creation of IIF in June 2005
 - ATIS BoD established IIF in June 2005

ATIS- IIF

o ATIS Structure



Notes on this chart:

- The 10 areas defined on the chart represent a functional framework for organizing the work of ATIS and for marketing it externally. They are not actual committees or individuals with administrative or oversight responsibilities.
- The remaining layers of the chart identify where the existing ATIS committees fall in the functional structure.
- PEG (Protection Engineers Group) is not included on this chart as it meets only once annually for an information exchange meeting, rather than for developing technical standards.
- It is intended that the structure presented on this chart will be dynamic and will grow and change over time as work flows through ATIS.

Mission Statement:

The IIF enables the interoperability, interconnection, and implementation of IPTV systems/services by developing ATIS standards and facilitating related technical activities. This forum places an emphasis on North American and ATIS Member Company needs in coordination with other regional and international standards development organizations.



IPTV Interoperability Forum (IIF)

The scope of the work in the IIF includes the following areas:

- Coordinate standards activities that relate to IPTV technologies. This includes providing a liaison function between the various Standards Development Organizations (SDOs) and Industry Forums that are each working on important components of IPTV, but may not have visibility to other aspects of the application.
- Develop interoperability agreements, technical reports, or other types of ATIS standards where appropriate.
- Provide a venue for interoperability activities.
- Provide a venue for the assessment of IPTV issues in the context of NGN directions



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IIF Goals

Long-Term: to fully specify all appropriate interfaces in the IPTV architecture, and to identify and specify metrics that are appropriate to measure the quality of IPTV service across those interfaces.

Near-Term: Work from Top-Down:

1. Develop Architecture Requirements and Reference Model
 2. Address Interoperability issues in Content Security (DRM)
 3. Identify QoS Measurement Points, Metrics and Methods
- o Organized in Task Forces aligned with near-term goals
 - o Issue Oriented - can take on new issues



IIF Leadership

- o IIF Convener: Kevin Schneider, ADTRAN (Term expires March 2006)
- o Architecture Taskforce (ARCH) Co-chairs
 - Dipan Patel, Accenture
 - Steven Wright, BellSouth
- o Digital Rights Management Taskforce (DRM) Co-Chairs
 - Mike Fargano, Qwest
 - Andre Jacobs, Widevine
- o Quality of Service Metrics (QoS) Taskforce Co-Chairs
 - Vandana Upadhyay, Symmetricom
 - John Williams, JDSU/Acterna
- o Technical Advisor
 - Dan O'Callaghan, Verizon
- o Testing and Interoperability (T&I) Taskforce Co-Chairs - Open



IIF – Architecture Group

o Active Issue Statements

- IIF-Issue-002 Requirements & Roadmap
 - Issue accepted Sept 14, 2005
 - Target Resolution date March 30, 2006
 - IIF-WT-010 in progress
- IIF-Issue-005 Packet Loss Issue
 - Issue Accepted Oct 25th, 2005
 - IIF-WT-009 in progress
- IIF-Issue-003 Definition of reference Architecture
 - Issue accepted Sept 14, 2005
 - Target Resolution date September 30, 2006
 - WT Not started - pending Requirements & Roadmap document

- o Active Issue Statements
 - IIF-Issue-001 DRM Requirements
 - Issue accepted Sept 14, 2005
 - Target Resolution date March 31, 2006
 - IIF-WT-008 in progress

o Active Issue Statements

- IIF-Issue-004 Quality of Service Metrics
 - Issue accepted Sept 14, 2005
 - Target Resolution date September 30, 2006
 - IIF-WT-004 QoS Network in progress
 - IIF-WT-005 QoS V-Model in progress

Current Meeting Schedule

- First IIF face to face meetings:
 - September 13-14, 2005, Washington, D.C.
 - October 25-27, 2005, Las Vegas NV
- Quarterly face-to-face meetings in 2006:
 - January 17-19, Orlando FLA
 - March 21-23, Las Vegas, NV
 - July 18-20, location TBD
 - October 10-12, location TBD,
 - Possible co-location with NIPP, OPTXS, PTSC, and PRQC
- Task Forces meet biweekly via virtual meetings



Participating Companies Include:

Accenture	ADTRAN	Agilent
Alcatel	AMDOCS	AT&T
Bell Canada	BellSouth	Big Band
British Telecom	Cingular Wireless	CISCO
Coaxsy	Digital Fountain	ECI Telecom
Entrisphere	Ericsson	Ineo Quest
Intelsat	Iowa Network Systems	ipdr.org
Hewlett Packard	JDSU	Juniper
Leapstone Systems	Lucent	Microsoft
Myrio/Siemens	NDS	Neustar
Nielsen	Nortel	Optical Solutions (Calix)
Qwest	Real Communications	Rogers Wireless
Scientific Atlanta	Sun Microsystems	Symmetricom
TDS Telecom	Telchemy	Telcordia
Tellabs	Thomson	Trendium
UTStarcom	Verizon	Westell
Widevine		

(backup) IPTV Context

0 IPTV SERVICE DEFINITIONS CONSIDERED

- Linear/Broadcast TV
- Linear Broadcast with Trick Modes
- PPV
- Video/TV On Demand (VOD)
- Interactive TV (iTV)
- Download Based Video Content Distribution Services.
- Customer Originated Video
- Music (Audio)
- Games
- Pictures
- Regulatory Services/Requirements
- Advertising
- Communication/Messaging
- Service Information
- Hybrid Services

