

Regional Development Forum 2008
"Bridging the Standardization Gap in Developing Countries"
Brasilia, 19-20 May 2008

**Relationship between
ITU Standardization and
CITEL's Standards Coordination**

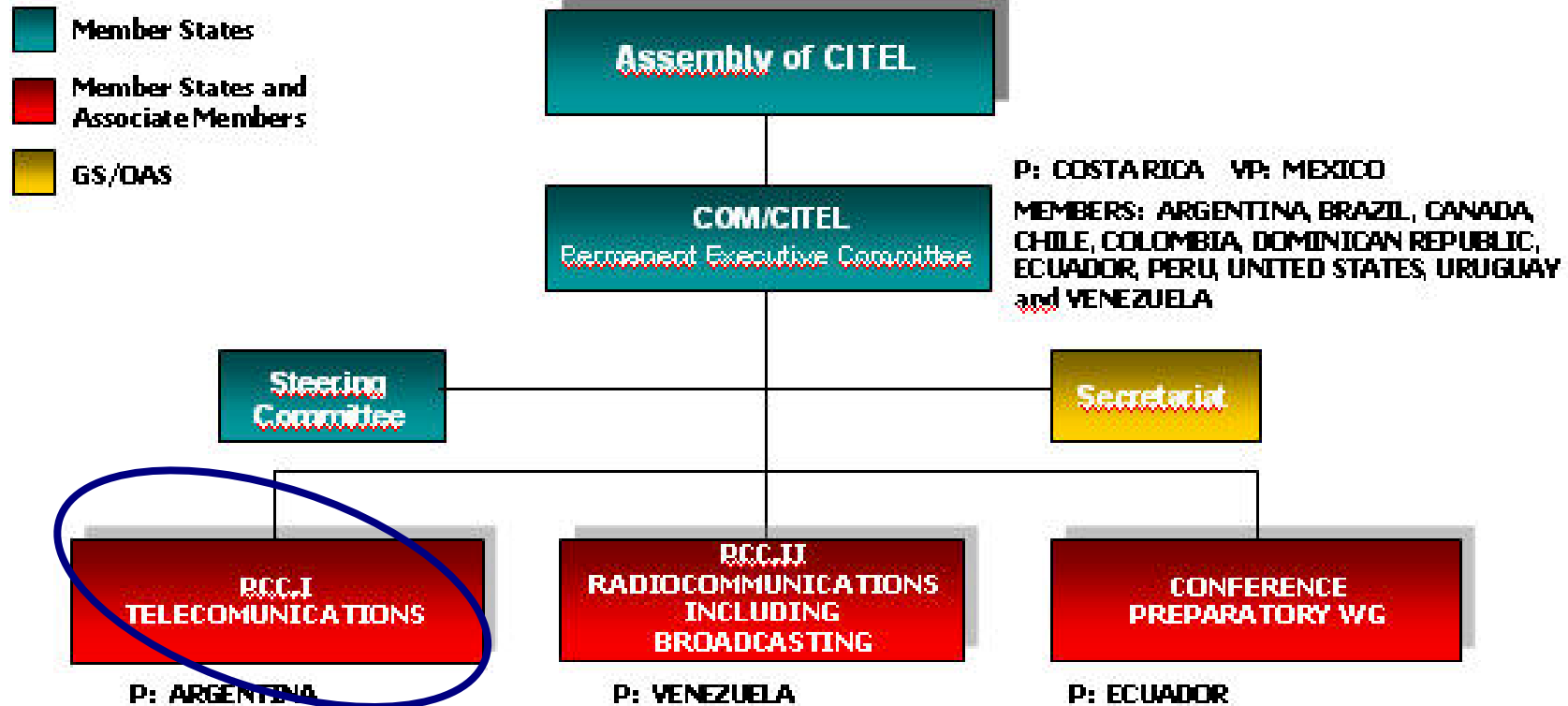
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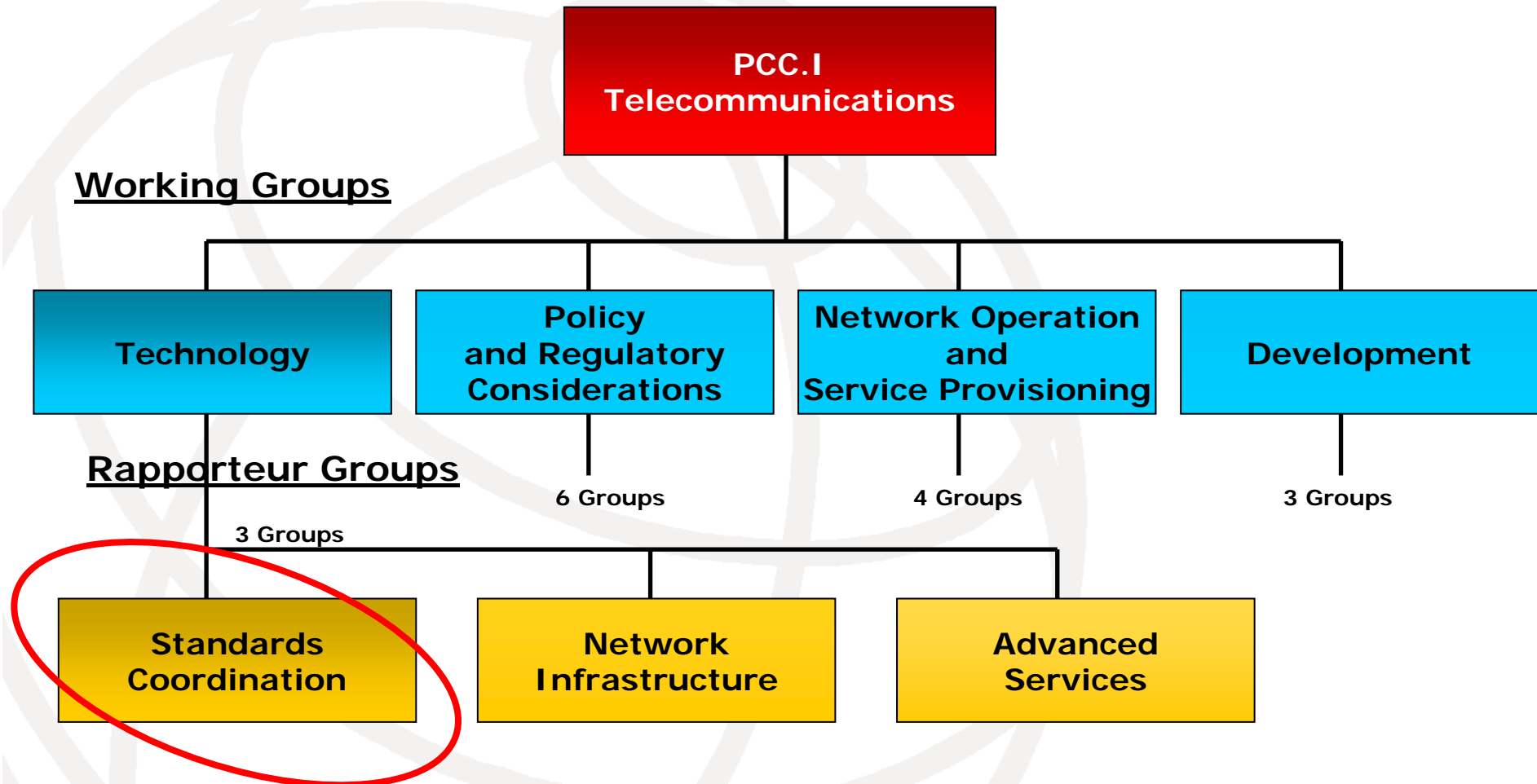
Brasilia, 19-20 May 2008

CITEL Structure



CITEL Inter-American
 Telecommunication
 Commission

CITEL-PCC.I Structure



Rapporteur Group on Standards Coordination

Mandate:

- Focus on the study of standards that are necessary for the smooth transition to Next Generation Networks (NGN).
- Address issues relating to the convergence of existing networks in a way that maintains interoperability across the Region.
- Make specific recommendations (Standards Coordination Documents, Technical Notebooks, etc.) that best serve the current and future needs of the users of these networks throughout the Region.

Rapporteur Group on Standards Coordination

Terms of Reference:

- Identify and evaluate technical issues related to the **service, architecture and protocol standards** required for the interconnectivity and interoperability of existing and future communications networks (wireline and wireless) across the Region.
- Draw primarily on the work of **existing standards-setting bodies**, including the **ITU-T**, IETF, and other fora as appropriate.
- Develop **Technical Notebooks** that best serve the current and future needs of the users of telecommunications networks throughout the Region.
- Establish **liaisons** with other standards bodies and industry fora as necessary to progress the work.

Rapporteur Group on Standards Coordination

Standards topics identified:

- **Multimedia** service definition and architectures
- Communication systems **security** (framework, protocols, **identity management**, lawful intercept, fraud prevention)
- Signaling requirements and protocols for **Next Generation (converged) Networks**
- IP-based services (Voice over IP, Video over IP, **IPTV**, etc.)
- **Emergency services**
- Numbering, Naming, and Addressing (ENUM)
- Interworking between traditional and evolving telecommunication networks
- Network aspects of **IMT-2000 and beyond** (wireless internet, harmonization and convergence, network control, mobility, roaming, etc.)
- **Optical transport networks**
- Access network transport (LANs, xDSL, Ethernet, cable modem, fiber, Wireless LANs, etc.)
- Terminals (PC, TV, PDA, phone, codecs, etc.)
- Management of communications services, networks and equipment
- Performance and QoS

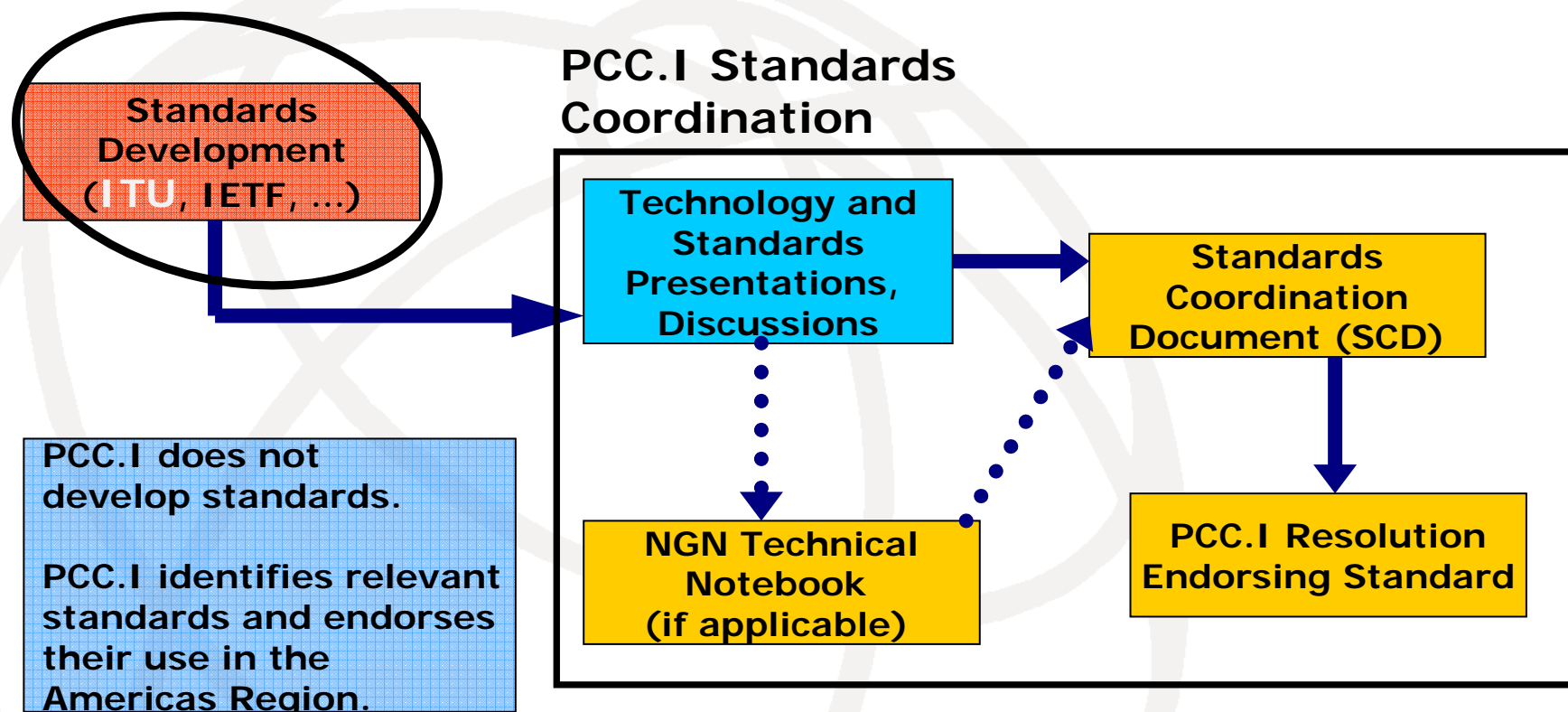
CITEL PCC.I Workshops

- Standards Coordination Planning/Support

Workshop	Location	Date
Cybersecurity	Quito, Ecuador	March 2004
Next Generation Networks	Asuncion, Paraguay	August 2004
Number Portability	Washington, DC; USA	October 2005
IPv6 Address Allocation Policies and Programs	Buenos Aires, Argentina	Sept 2006
Interconnection and Next Generation Networks	Buenos Aires, Argentina	Sept 2006
Bridging the Standardization Divide (with ITU)	Mendoza, Argentina	Sept 2007

Bridging the standardization gap by socializing key technologies and standards via workshops and seminars

Standards Coordination Process



Bridging the standardization gap by socializing standardization activities/progress and standards maturity

NGN Technical Notebook

“Next Generation Networks: Standards Overview”

- Provides a formalized means of maintaining an archive of NGN technical information that will be available to the telecommunications industry in the Member States
- Identifies NGN related standards that the Standards Coordination Group is studying, including relevant protocols and Internet Telephony
 - as a “living document”, is updated on an ongoing basis with relevant information from contributions submitted to the Rapporteur Group
- Documents NGN standards, completed or in progress, for new or existing services, which may be considered for future development into an SCD in accordance with the approval procedures of the Technology WG

**Bridging the standardization gap by
archiving standards summaries in anticipation of
future endorsement**

NGN Technical Notebook

Contents:

■ Signalling Standards

- ▶ H.323, SIP, BICC, ...

■ Access Standards

- ▶ Wireline, Cable, Optical Fiber, ...
- ▶ Wireless: Wi-Fi, WiMAX, 3G, ...

■ Transport Standards

- ▶ Circuit-Switched/Packet-mode
- ▶ MPLS, IP, Ethernet

■ Management Standards

- ▶ ITU-T SG4, NGN Network Management
- ▶ IETF (SNMP, NETCONF)

■ Service Creation Standards

- Intelligent Networks
- Parlay APIs, OMA Service Enablers

■ Security Standards

- ITU-T SG17, NGN Security, Identity Management
- IPsec, IKE

■ Performance and QoS Standards

- Network Performance Objectives, QoS in IP-based Networks

■ Emergency Telecommunication Services (ETS)

- ITU, IETF, ETSI, ATIS

■ Evolutionary Standards






- IPv6, ENUM

Standards Coordination Document

- A documented case for the endorsement of a standard. Each SCD includes:
 - a summary of the standard development and approval (in the ITU-T, IETF, or other relevant forum)
 - a summary of the standard
 - a summary of presentations and discussions of the standard within PCC.I
 - a discussion of the relevance of the standard to the Americas Region
 - a recommendation that CITEC-PCC.I endorse the standard
 - a recommendation for future work on the standard's topic (if any)
- When an SCD is approved by the Standards Coordination Group and the Technology WG, a Resolution is drafted for PCC.I approval, to which the SCD is attached.




CITEL-PCC.I Resolutions Endorsing Standards for the Americas Region

1 Of 4

Standard	PCC.I Resolution	Date
Gateway Control Protocol	PCC.I/RES.104 (XIV-01)	March 2001
 Intelligent Networks Capability Set 3	PCC.I/RES.105 (XIV-01)	March 2001
 Intelligent Networks Capability Set 4	PCC.I/RES.1 (I-02)	Dec 2002
 ITU-T Y.2000-Series Recs for NGN (SG13)	PCC.I/RES. 25 (III-03)	Sept 2003
 ANSI-41 Evolved Core Network with CDMA2000 Access Network	PCC.I/RES. 27 (III-03)	Sept 2003
 GSM Evolved UMTS Core Network with UTRAN Access Network	PCC.I/RES. 28 (III-03)	Sept 2003




CITEL-PCC.I Resolutions Endorsing Standards for the Americas Region

2 Of 4

Standard	PCC.I Resolution	Date
 Packet-Based Multimedia Communications Systems (ITU-T Rec. H.323)	PCC.I/RES. 44 (IV-04)	March 2004
 Security Architecture for Systems Providing End-to-End Communications (ITU-T Rec. X.805)	PCC.I/RES. 45 (IV-04)	March 2004
Security Architecture for the Internet Protocol (IPsec)	PCC.I/RES. 46 (IV-04)	March 2004
 Interworking Between SIP and BICC Protocols or ISUP (Rec. Q.1912.5)	PCC.I/RES. 55 (V-04)	Sept 2004



CITEL-PCC.I Resolutions Endorsing Standards for the Americas Region

3 Of 4

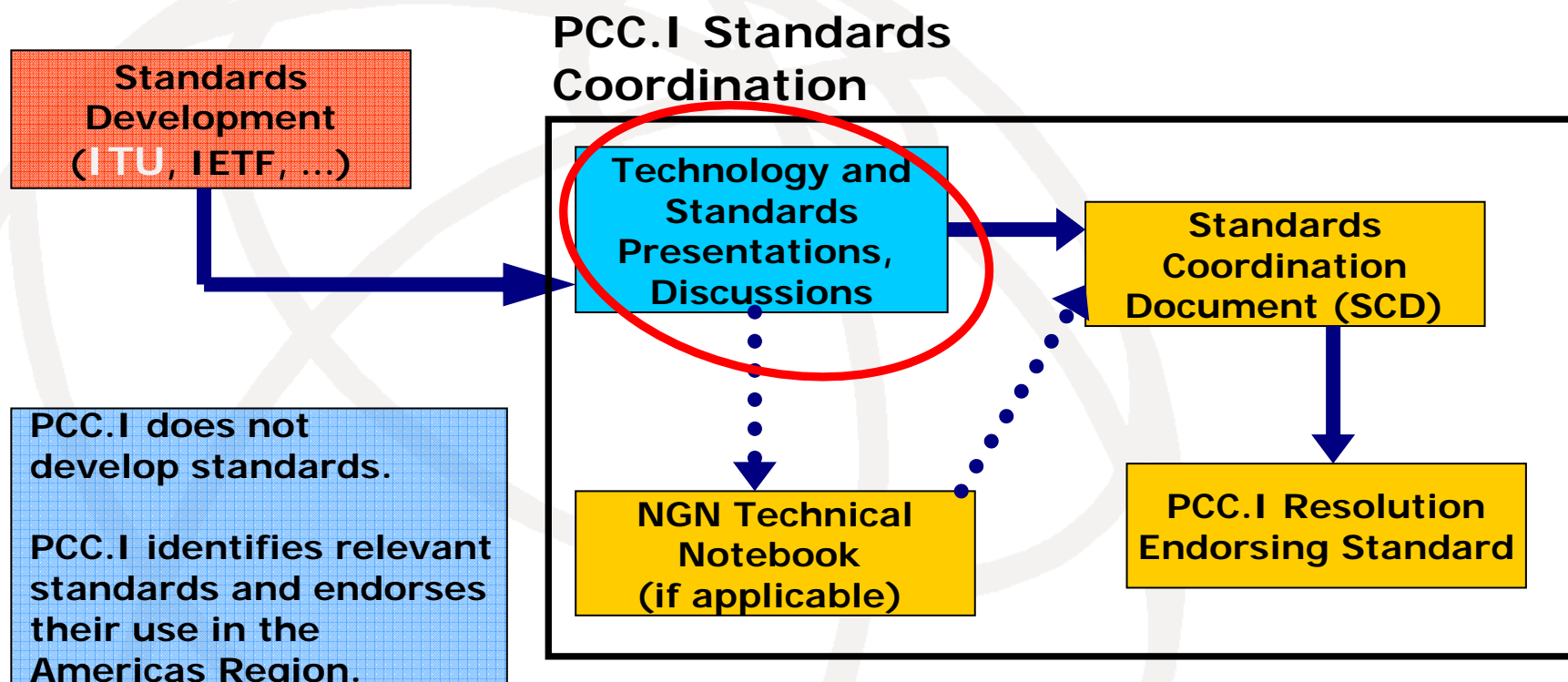
Standard	PCC.I Resolution	Date
SIP: Session Initiation Protocol	PCC.I/RES. 68 (VI-05)	April 2005
 ITU-T Rec. G.993.2, VDSL2: Very High Speed DSL-2 Transceivers	PCC.I/RES. 98 (IX-06)	Sept 2006
 ITU-T Rec. J.122, "Second-Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems"	PCC.I/RES.99 (IX-06)	Sept 2006
Internet Protocol Version 6 (IPv6)	PCC.I/RES.100 (IX-06)	Sept 2006
 E.164 to Uniform Resource Identifiers (URI) Dynamic Delegation Discovery System (DDDS) Application (ENUM)	PCC.I/Res. 116 (XI-07)	Sept 2007

CITEL-PCC.I Resolutions Endorsing Standards for the Americas Region

4 Of 4

Standard	PCC.I Resolution	Date
 ITU-T Rec. E.106, "International Emergency Preference Scheme for Disaster Relief Operations"	PCC.I/RES. 130 (XII-08)	March 2008
 ITU-T Rec. E.107, "Emergency Telecommunications Service (ETS) and Interconnection Framework for National Implementations of ETS"	PCC.I/RES. 131 (XII-08)	March 2008

Standards Coordination Process



Bridging the standardization gap by socializing standardization activities/progress and standards maturity

Rapporteur Group on Standards Coordination

Process Example (PCC.I Meeting – March 2008):

Input Documents

Documents:

- Summary (from ITU-T IPTV-GSI Coordinator): IPTV
- Summary (from WGT Chair): ITU-T Identity Management standardization
- Summary (from SC Rapporteur): ITU-T NGN Service/Application standardization
- Summary (from SC Rapporteur): ITU-T Security standardization

Discussion/Analysis:

- SC Rapporteur Group
- WG on Technology*

• including discussions of advanced services, network infrastructure evolution/best practices)

Proposals/Decisions

- :
- Material added to
 - NGN Technical Notebook
 - SC Workplan

Future Work

■ Standards Coordination Workplan (2008-2009)

- NGN Applications/ Services
- Identity Management
- IPTV
- Security
- Wireless Broadband (e.g., WiMAX)
- Intelligent Transportation Systems

Summary

- CITEEL plays a key role in bridging the standardization gap in the Americas Region
- CITEEL continues to monitor standards activities within the ITU and other relevant bodies and has initiated work on new technologies
- CITEEL is utilizing technology and standards workshops, Technical Notebooks, and Standards Coordination Documents to increase awareness of standards issues and to assess best practices and strategies in order to implement those standards

Summary (2)

- Analysis of global standards development, especially ITU standards development, is leading to Regional endorsement of relevant and useful standards
- Feedback from the experiences of Regional users and service providers will allow CITELE to remain focused on the most relevant standards issues in order to provide recommendations for the Region and provide value to other bodies internationally

Thank You!

MUITO OBRIGADO

MUCHAS GRACIAS

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