

**ORGANIZACION DE LOS ESTADOS AMERICANOS
ORGANIZATION OF AMERICAN STATES**

**Comisión Interamericana de Telecomunicaciones
Inter-American Telecommunication Commission**

**XII MEETING OF PERMANENT CONSULTATIVE
COMMITTEE I: TELECOMMUNICATIONS
March 12 to 14, 2008
Washington, DC, United States of America**

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**FINAL REPORT
(Item on the Agenda: 6)
(Document submitted by the Drafting Group)**

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FINAL REPORT

XII MEETING OF THE PERMANENT CONSULTATIVE COMMITTEE I (PCC.I)

The XII Meeting of the Permanent Consultative Committee I: Telecommunications was held in Washington, DC, United States of America, March 12 to 14, 2008.

I. AGENDA¹

1. Approval of the agenda and schedule of activities.
2. Establishment of the Drafting Group for the final report.
3. Report and meeting of the Working Groups:
 - 3.1 Working Group on Technology (WGT)
 - 3.2 Working Group on Policy and Regulatory Considerations (WGPRC)
 - 3.3 Working Group on Network Operation and Service Provisioning (WGNOSP)
 - 3.4 Working Group on Development (WGD)
4. Agenda, venue and date for the XIII Meeting of PCC.I.
5. Approval of the Final Report.
6. Other Business.

II. AUTHORITIES OF THE MEETING

Alternate Chair: Mr. Sergio Scarabino (Argentina)

Executive Secretary: Mr. Clovis Baptista (OAS)

Drafting Group:

Chair: Mrs. Maria Florencia Forciniti (Argentina)

Members: Mr. Santiago Reyes Borda (Canada)
Mr. Víctor Martínez (Paraguay)
Mr. Jonathan Siverling (United States of America)
Mr. Mayerley Pacheco (Venezuela)

¹ CCP.I-TEL/doc..1218/08

III. RESOLUTIONS

PCC.I/RES. 130 (XII-08) ²

INTERNATIONAL EMERGENCY PREFERENCE SCHEME (IEPS) FOR DISASTER RELIEF OPERATIONS

The XII Meeting of the Permanent Consultative Committee I: Telecommunications,

CONSIDERING:

- a) That emergency telecommunications is a critical area for all countries of the region, especially those with fragile economies;
- b) That recent natural disasters in the region have brought into evidence the importance of not only efficient communications facilities for Telecommunications for Disaster Relief, but also for early warning to populations at risk;
- c) That some countries in the region have introduced measures and are taking decisions designed to enhance public security, promoting and urging the rapid implementation of a nationwide emergency telecommunications services infrastructure in a well-coordinated and transparent manner;
- d) That activities are being undertaken at the international, regional and national levels within the International Telecommunication Union (ITU) and other relevant organizations to establish internationally agreed means to operate systems for public protection and disaster relief on a harmonized and coordinated basis;
- e) That the capability and flexibility of all telecommunication facilities depend upon appropriate planning for the continuity of each phase of network development and implementation;
- f) That there is a need of adopting an International Emergency Preference Scheme (IEPS) for disaster relief operations in case of an emergency in a country or region,

NOTING:

- a) That the United Nations and its agencies are actively coordinating international activities relating to early warning, disaster relief and prevention (*e.g.*, the Working Group on Emergency Communications of OCHA of United Nations);
- b) That Article 40 of the ITU Constitution addresses the ‘priority of telecommunications concerning safety of life’;
- c) That the Tampere Convention provides a process for implementation of “emergency communications” on an international basis;

² CCP.I-TEL/doc. 1336/08

d) That the results of the World Summit on Information Society include references to disaster mitigation and reduction, the use of Information and Communication Technology (ICT) applications for disaster prevention, and the need for the establishment of monitoring systems to forecast and monitor the impact of natural and man-made disasters;

e) That the World Telecommunications Development Conference (Doha, 2006) in its Resolution 34 invites ITU-D to continue to ensure that proper consideration be given to telecommunications for disaster warning and disaster situations as an element of telecommunication development, including, in close coordination and collaboration with ITU-R and ITU-T and other relevant international organizations;

f) That Resolution 136 of the ITU's Plenipotentiary Conference (Antalya, 2006) calls for the use of telecommunications/information and communication technologies for monitoring and management in emergency and disaster situations for early warning, prevention, mitigation and relief; which underlines that an international standard for communication on alert and warning information can assist in the provision of effective and appropriate humanitarian assistance and in mitigating the consequences of disasters, in particular in developing countries,

RECOGNIZING:

a) That the IEPS would facilitate emergency recovery operations for restoring normal living conditions after serious disasters and/or emergency events;

b) That ITU-T Recommendation E.106 defines the International Emergency Preference Scheme (IEPS), which aims to provide authorized emergency personnel a higher probability of successful communication using the Public Switched Telecommunication Network (PSTN) under high network load conditions, such as those that might occur in an emergency,

RESOLVES:

To endorse ITU-T Recommendation E.106 "International Emergency Preference Scheme (IEPS) for disaster relief operations" with no deletions, additions or modifications.

INSTRUCTS THE RAPPORTEUR GROUP ON STANDARDS COORDINATION:

To continue to monitor emergency telecommunications developments and determines its applicability for the Americas as this work evolves.

ANNEX TO RESOLUTION PCC.I/RES. 130 (XII-08)

SUMMARY

A Standards Coordination Document is proposed which addresses ITU-T Recommendation E.106 "International Emergency Preference Scheme (IEPS) for disaster relief operations". This Recommendation aims to provide authorized emergency personnel with a higher probability of successful communication using the Public Switched Telecommunication Network (PSTN) under high network load conditions, such as those that might occur in an emergency.

STANDARDS COORDINATION DOCUMENT

**INTERNATIONAL EMERGENCY PREFERENCE SCHEME FOR
DISASTER RELIEF OPERATIONS**

EXECUTIVE SUMMARY

As explained in Canadian contribution CCP.I-TEL/doc. 1106/07 to the Permanent Consultative Committee (PCC.I) XI meeting, the purpose of Emergency Telecommunications Services is to facilitate emergency recovery operations for restoring normal living conditions after serious disasters and/or emergency events. The contribution also outlined the standards related work in the different Standards Development Organizations (SDOs) and recommended the work on Emergency Telecommunications Services within the PCC.I Working Group on Technology.

An international preference scheme, the IEPS, is proposed in E.106 for the use of public telecommunications by national authorities in the case of emergency or a crisis situation. The IEPS is needed when there is a crisis situation causing an increased demand for telecommunications when use of the International Telephone Service may be restricted due to damage, reduced capacity, congestion or faults. In crisis situations there is a requirement for IEPS users of public telecommunications to have preferential treatment.

The users of IEPS require preferential treatment, and their traffic should be considered as high priority.

This SCD proposes that ITU-T Recommendation E.106, "International Emergency Preference Scheme (IEPS) for disaster relief operations", approved by the ITU-T SG 2 on October 31st 2003, be endorsed by the PCC.I for the region of the Americas.

BACKGROUND

In case of a crisis or emergency situation, such as natural disasters (i.e. earthquakes, hurricanes, floods, tsunamis, etc) or human led attacks, the general public would, most probably, attempt to make calls in search for assistance and help. That would mean that the telecommunication networks such as the PSTN (Public Switched Telephone Network), the ISDN (Integrated Services Digital Network) and the PLMN (Public Land Mobile Network) could experience congestion. The emergency situation could also cause physical damage on any of those networks.

In order to protect their land and citizens, many countries have already started to develop national preference schemes, so that the national authorities would be able to use the public telecommunications networks with a preferential treatment for this emergency national traffic. However, in case of a national emergency, the international support is very important. This is why an International Emergency Preference Scheme (IEPS) was created, not only for the national authorities of the country in crisis, but also to allow for the communications between the IEPS users (defined as the ones that are authorized by a national authority to have access to the IEPS) in this country and their correspondents in others.

ITU-T Recommendation E.106 describes the functional requirements, features, access and operational management (i.e. Operation, Administration and Maintenance (OAM)) of the IEPS.

The Working Group on Standards Coordination started to study Emergency Telecommunications Service at the XVI PCC.I meeting in Montevideo, Uruguay in May 2002. In addition, Section 9 of the Technical

Notebook “Next Generation Networks Standards Overview” (CCP.I-TEL/doc. 1206/07) provides a comprehensive description of the Emergency Telecommunications Service (ETS).

IEPS Functional Requirements

IEPS users should be able to use their normal telecommunications equipment (i.e. PSTN/ISDN/PLMN) when making and IEPS call in times of crisis. They should be able to call any other telecommunication user for what they have preference over other users.

It is important to clarify that the access to public emergency services is not impacted by this Recommendation. The public emergency services (such as fire, police and medical) are intended to be used by the general public and they are often invoked by a short access code (e.g. 911 in North America).

The IEPS preference scheme does not include pre-emption of existing calls.

IEPS Features

The essential IEPS features are defined in the main body of E.106. These are:

Call Marking

Calls from IEPS users should be suitably marked at the network entrance and those markings should be associated with the call until completed. These marked calls would obtain advantages from the public switched networks in signaling, traffic routing and switching over non-marked calls.

Priority Dial Tone

All the IEPS calls have the same priority, i.e. only one level of priority is defined for IEPS calls. However if the country where the call is originated has a multi-level preference scheme, this country might get an agreement with the country receiving the call, to map this multi-level preference scheme onto that of the destination country. In that case, the information carrying the level of priority should be carried transparently across the international network.

Priority call set up, including priority queuing schemes

This refers to the marking and identification of IEPS calls. While the IEPS calls progress through the networks, the identifier will enable special routing and preferential treatment to increase the probability of call completion.

Exemption from restrictive management controls

Network Management is used to protect a telecommunication network from failures and service degradation. In order to provide Network Management, a set of Operation, Administration and Management (OAM) tools are used. The OAM tools provide control measures that can be expansive or protective. Expansive measures increase call routing choices by providing more capability than normal to carry excessive traffic. Protective measures limit incoming calls. IEPS calls should be exempted from restrictive control measures.

Annex A of Recommendation E.106 offers more details on the above mentioned features and other ones such as: Priority indicator in bearer networks, Survivable access and egress from end user locations to PSTN/ISDN/PLMN, IEPS User verification, Special announcements on call progress, Special routing capabilities, Call forwarding, Abbreviated dialing, Attendant override, Authorization codes, Automatic call distribution, Call-by-call service selection, Call pickup, Call transfer, Call waiting and Calling number identification.

Appendix I of Recommendation E.106 gives an idea of what criteria could be used to select IEPS users.

CONCLUSIONS

The Working Group on Technology recommends that CITELE PCC.I endorses ITU-T Recommendation E.106 “International Emergency Preference Scheme (IEPS) for disaster relief operations” with no deletions, additions or modifications.

FUTURE WORK

The Rapporteur Group on Standards Coordination will continue monitoring the progress of the IEPS since CITELE Members State can benefit from using this scheme in case of emergencies and for disaster relief operations.

RESOURCE DOCUMENTS

- [1] ITU-T Recommendation E.106, International Emergency Preference Scheme (IEPS) for disaster relief operations.
- [2] “Emergency Telecommunications Services”, CCP.I-TEL/doc. 1106/07, Mendoza, Argentina, September 2007.
- [3] “ITU Activities Related to Emergency Telecommunications”, CCP.I-TEL/doc. 1001/07, Buenos Aires, Argentina, March, 2007.
- [4] “Emergency Telecommunications Service in Next Generation Networks”, CCP.I/doc.1476/02, Montevideo, Uruguay, May, 2002.

PCC.I/RES. 131 (XII-08)³

EMERGENCY TELECOMMUNICATIONS SERVICE (ETS) AND INTERCONNECTION FRAMEWORK FOR NATIONAL IMPLEMENTATIONS OF ETS

The XII Meeting of the Permanent Consultative Committee I: Telecommunications,

CONSIDERING:

- a) That emergency telecommunications is a critical area for all countries of the region, especially those with fragile economies;
- b) That a number of countries in the region have introduced measures and are taking decisions designed to enhance public security, promoting and urging the rapid implementation of a nationwide emergency telecommunications services infrastructure in a well-coordinated and transparent manner;

³ CCP.I-TEL/doc. 1337/08 rev.1

- c) That some of the countries of the region might have already implemented an Emergency Telecommunications Service (ETS);
- d) That ETS users in a member state may need to contact with ETS users of other member states,

NOTING:

- a) That the United Nations and its agencies are actively coordinating international activities relating to early warning, disaster relief and prevention (*e.g.*, the Working Group on Emergency Communications of OCHA);
- b) That the Tampere Convention provides a process for implementation of “emergency communications” on an international basis;
- c) That Resolution 136 of the ITU’s Plenipotentiary Conference (Antalya, 2006) calls for the use of telecommunications/information and communication technologies for monitoring and management in emergency and disaster situations for early warning, prevention, mitigation and relief; which underlines that an international standard for communication on alert and warning information can assist in the provision of effective and appropriate humanitarian assistance and in mitigating the consequences of disasters, in particular in developing countries,

RECOGNIZING:

- a) That the ETS national implementation of a member state may need to be interconnected to the ETS national implementations of another member state, using an international network through a traditional gateway;
- b) That ITU-T Recommendation E.107 defines Emergency Telecommunications Service (ETS) and interconnection framework for national implementations of ETS, which aims to provide guidance for bilateral/multilateral agreements between countries,

RESOLVES:

To endorse ITU-T Recommendation E.107 “Emergency Telecommunications Service (ETS) and interconnection framework for national implementations of ETS”, with no deletions, additions or modifications.

INSTRUCTS THE RAPPORTEUR GROUP ON STANDARDS COORDINATION:

To continue to monitor ETS national implementations (ENIs) and their interconnections with other ENIs for the Americas as this work evolves.

ANNEX TO RESOLUTION PCC.I/RES.131 (XII-08)

SUMMARY

A Standards Coordination Document is proposed which addresses ITU-T Recommendation E.107 “Emergency Telecommunications Service (ETS) and interconnection framework for national implementations of ETS”. This Recommendation addresses the potential for bilateral/multilateral agreement between cooperating countries/administrations to link their respective Emergency

Telecommunications Service (ETS) systems. In addition, this Recommendation provides guidance that will enable telecommunications between one ETS national implementation (ENI) and another ENI, in addition to providing a description of ETS.

STANDARDS COORDINATION DOCUMENT (CSD)

EMERGENCY TELECOMMUNICATIONS SERVICE (ETS) AND INTERCONNECTION FRAMEWORK FOR NATIONAL IMPLEMENTATIONS OF ETS

EXECUTIVE SUMMARY

Canadian contribution CCP.I-TEL/doc. 1106/07 to Permanent Consultative Committee I (PCC.I) XI meeting referred to the importance of the Emergency Telecommunications Service (ETS) and the standards related work in the different Standards Development Organizations (SDOs). The contribution then, recommended that the PCC.I Working Group on Technology works on this subject.

ITU-T Recommendation E.107 describes the ETS and provides guidance that will enable telecommunications between one ETS National Implementation (ENI) and another ENI. It also considers a potential for bilateral/multi-lateral agreement between cooperating countries/Administrations to link their respective ETS systems

This CSD proposes that ITU-T Recommendation E.107, approved on February 2007 by ITU-T Study Group 2, be endorsed by the PCC.I for the region of the Americas.

BACKGROUND

Emergency Telecommunications Service (ETS) has been or is being developed and implemented by some countries and, although these implementations are based on national choices, since emergency situations can go beyond geographic boundaries, some countries/administrations may decide to have bilateral or multilateral agreements to link their respective ETS national implementations (ENIs).

ITU-T Recommendation E.107 defines ETS, ETS users, and Priority Treatment Capabilities.

The Working Group on Standards Coordination (WGSC) started to study Emergency Telecommunications Service at the XVI PCC.I meeting in Montevideo, Uruguay in May 2002. In addition, Section 9 of the Technical Notebook "Next Generation Networks Standards Overview" (CCP.I-TEL/doc. 1206/07) provides a comprehensive description of ETS.

Emergency Telecommunications Service (ETS)

An ETS is a national implementation service (i.e. each country/administration decides on its implementation of the ETS) that uses the features, facilities and applications of national public telecommunication networks and the services offered by them. It should provide priority telecommunications to its authorized users in times of crisis or emergencies.

The ETS is considered a supplementary service because it can only exist if there is already an established telecommunication service.

ETS User

An ETS user needs to be authorized to obtain priority telecommunications in national and/or international emergency situations in order to initiate ETS calls or sessions using the normal telecommunication terminals.

Priority treatment capabilities

These are capabilities that give priority in the use of telecommunications network resources, so that they will provide a higher probability of end-to-end telecommunications and use of telecommunication applications. The signaling, routing, operation and management, and traffic control are also treated with a priority scheme.

The priority treatment mechanisms may include priority queuing to obtain network resources; access to additional resources; exemption from restrictive traffic management, such as call gapping (i.e. stopping traffic upon network congestion); pre-emption of public traffic in order to release resources that can be used by an ETS call/session request; priority of an ETS user to communicate with any other available user.

The government of a country can decide on the amount of priority levels to be assigned to the ETS users.

The ETS priority treatment should be ensured through the network boundaries of interworking networks.

ETS National Implementation (ENI) and its interconnection with other ENIs

In cases of disasters or emergency situations, it is important that an ETS user in one country can communicate with available ETS users in other countries. This may require that two ETS national implementations have to interconnect via an international network, which has to provide priority treatment capabilities. In order to carry out these interconnections, countries may establish bilateral or multilateral agreements with regards to the exchange and treatment of ETS calls or sessions. Based on these agreements, the information regarding the ETS user priority level should be carried out transparently across the international network up to the destination network.

An outgoing international gateway shall provide priority treatment to an ETS call or session and if necessary, it has to provide appropriate mapping of the originating country's national ETS indicators to the corresponding international call markings, so that the ETS call or session will have priority treatment in the international network.

In a companion contribution to this meeting, the delegation of Canada proposes to adopt the International Emergency Preference Scheme (IEPS) for disaster relief operations, as described in ITU-T Recommendation E.106. If IEPS is adopted, it can be used for the interconnection of ENIs, based on bilateral or multilateral agreements.

CONCLUSIONS

The Working Group on Technology recommends that CITELEPCC.I endorses ITU-T Recommendation E.107, Emergency Telecommunications Service (ETS) and interconnection framework for national implementations of ETS, approved by ITU-T Study Group 2 in February 2007.

FUTURE WORK

The Rapporteur Group on Standards Coordination will continue monitoring the progress of the Emergency Telecommunications Service, as it is important that CITELE Members States can use their respective telecommunication networks for disaster relief operations in case of crisis or emergencies.

This work is also important considering the bilateral and/or multilateral agreements. Based on these, a CITELE member state that is undergoing a crisis or an emergency situation can communicate and get support and emergency relief from other Members States.

RESOURCE DOCUMENTS

[1] ITU-T Recommendation E.107, Emergency Telecommunications Service (ETS) and interconnection framework for national implementations of ETS, February 2007.

[2] ITU-T Recommendation E.106, International Emergency Preference Scheme (IEPS) for disaster relief operations.

[3] “Emergency Telecommunications Services”, CCP.I-TEL/doc. 1106/07, Mendoza, Argentina, September 2007.

[4] “ITU Activities Related to Emergency Telecommunications”, CCP.I-TEL/doc. 1001/07, Buenos Aires, Argentina, March 2007.

[5] “Emergency Telecommunications Service in Next Generation Networks”, PCC.I/doc.1476/02, Montevideo, Uruguay, May 2002.

PCC.I/RES. 132 (XII-08) ⁴

REVIEW OF EXISTING INTERNATIONAL TELECOMMUNICATION REGULATIONS

The XII Meeting of Permanent Consultative Committee I: Telecommunications,

CONSIDERING:

a) That the Director of Telecommunication Standardization Bureau (TSB) has convened a Second Meeting of the Group of Experts in charge of examining the International Telecommunication Regulations (ITRs);

b) That the report of the First Meeting of the Group of Experts in charge of examining the ITRs has started up a review of the ITRs article by article;

c) That one of the attributions of the Group of Experts points out that the review of the ITRs may include the identification, to the extent possible, of how member states and Sector Members use ITRs,

RECOGNIZING:

⁴ CCP.I-TEL/doc. 1348/08

That the ITRs provide an important framework worldwide as it sets forth the principles that facilitate the international exchange of traffic,

RESOLVES:

To recommend that the Group of Experts bear in mind the following principles in their discussions:

1. The ITRs continue to be essential to ensure the stable and reliable flow of international telecommunications.
2. Any change in the ITRs that is proposed must be examined for the tangible benefits it can bring.

INSTRUCTS THE EXECUTIVE SECRETARY OF CITEL:

To forward this Resolution to the Director of Telecommunication Standardization Sector (ITU-T) as quickly as possible so that the above-mentioned principles shall be taken into account in the discussions of the Second Meeting of the Group of Experts in charge of examining the ITRs, to be held on March 26-28, 2008, in Geneva, Switzerland.

PCC.I/RES. 133 (XII-08)⁵

**CYBERSERURITY/CRITICAL INFORMATION INFRASTRUCTURE PROTECTION (CIIP)
WORKSHOP**

The XII Meeting of the Permanent Consultative Committee I: Telecommunications,

CONSIDERING:

- a) That CITEL Permanent Consultative Committee I (PCC.I) has recognized the central role of telecommunications in cybersecurity, and has created its own work program to focus and coordinate technical standardization and highlight regulatory issues associated with developing a culture of cybersecurity in the region;
- b) That the International Telecommunication Union (ITU) Secretary General has launched a Global Cybersecurity Agenda and convened a High Level Expert's Group to provide guidance on long-term strategies;
- c) That the ITU will convene a World Telecommunication Policy Forum in 2009 which will consider cybersecurity as an important theme,

RECOGNIZING:

- a) That ensuring the security of information systems is a priority matter for the hemisphere, as information networks play an important part in the critical infrastructure of countries, their economies, and societies;

⁵ CCP.I-TEL/doc. 1345/08 rev.2

b) That CITELE supports an active multi-disciplinary approach to cybersecurity that pools its efforts with the efforts and expertise of the Inter-American Committee against Terrorism (CICTE) and the Justice Ministers and Attorneys General of the Americas (REMJA);

c) That the Comprehensive Inter-American Cybersecurity Strategy relies on the efforts and specialized knowledge of CITELE, CICTE, and REMJA,

RESOLVES:

To offer a Cybersecurity/CIIP Workshop with an agenda that could include:

- I. Update on ITU-D's work in Question 22/1 to develop a report of best practices for a national approach to Cybersecurity.
- II. Discussion on the experiences of Countries
- III. Elements of a National Strategy
- IV. Developing a Policy for a Cybersecurity/Critical Information Infrastructure Protection (CIIP) National Strategy
- V. Implementing a National Strategy
- VI. Industry-Government Cooperation
- VII. Roundtable Discussion

INSTRUCTS THE SECRETARIAT:

To consult with the appropriate parties as necessary to arrange for holding the Workshop.

PCC.I/RES. 134 (XII-08) ⁶

QUESTIONNAIRE ON CONVERGENT NETWORKS AND CONVERGENT SERVICES

The XII Meeting of Permanent Consultative Committee I: Telecommunications,

CONSIDERING:

That it is advisable to have information on how convergence of networks and services is being implemented in the region so as to be able to recommend the adoption of timely regulatory policies and actions that are consistent with technological advancement,

RESOLVES:

To request the member state administrations and Associate Members:

a) To present their contributions on convergence for incorporation in the Technical Notebook created to study this topic.

⁶ CCP.I-TEL/doc. 1353/08 rev.1

b) To complete the questionnaire annexed hereto and to forward it to Mr. Mario Chafla (mchafla@conatel.gov.ec) of the Administration of Ecuador by June 30, 2008.

ANNEX TO DECISION PCC.I/RES.134 (XII-08)

QUESTIONNAIRE ON CONVERGENT NETWORKS AND CONVERGENT SERVICES

1. How do you define convergence?
2. What services may be included for convergence? Please explain.
3. With regard to the preceding question, what resources or platforms should be included for convergence?
4. What regulatory aspects should the Administration consider in facilitating the provision of convergent services?
5. With regard to service licenses, what approach should be taken to the provision of convergent services? Please explain.
6. What other policy and regulatory considerations should be included in the Technical Notebook on convergence? Please explain.

PCC.I/RES.135 (XII-08) ⁷

ISSUES ARISING FROM CONVERGENCE OF TELECOMMUNICATIONS, BROADCASTING AND INTERNET

The XII Meeting of the Permanent Consultative Committee I: Telecommunications,

CONSIDERING:

- a) That digitization has created a global communications world without boundaries;
- b) That there is a growing convergence between broadcasting and telecommunications industries;
- c) That delivery of secure, interactive and reliable streamed visual content and related multimedia services is already a reality in many countries,

NOTING:

- a) That Internet Protocol TV (IPTV) is an important example of a converged telecommunications and broadcasting service;

⁷ CCP.I-TEL/doc. 1354/08 rev.1

b) That international standards bodies are already coming to grips with the necessary standards to support interoperable IPTV implementations,

RECOGNIZING:

That in existing regulatory environments, telecommunications and broadcasting services are usually regulated separately even though these areas are rapidly converging themselves and with the Internet,

FURTHER RECOGNIZING:

That there are still many technical challenges ahead in deployment of IPTV and related converged services,

RESOLVES:

To examine the related regulatory and policy issues in the *noting*, and to assign Mr. William McCrum to report back at its next meeting with a proposal for framing these issues in an easily comprehensible way. The intent is to select those issues of priority importance to CITEL members and to begin work on defining and identifying solutions to the various challenges uncovered.

PCC.I/RES. 136 (XII-08) ⁸

SEMINAR TO SHARE REGIONAL EXPERIENCES AND/OR MODELS OF THE IMPLEMENTATION OF NUMBER PORTABILITY IN THE AMERICAS

The XII Meeting of Permanent Consultative Committee I: Telecommunications,

CONSIDERING:

That the terms of reference of the Working Group on Network Operation and Service Provisioning (WGNOSP), adopted in resolution PCC.I/RES.128 (XI-07), specifically, those of the Rapporteur Group on Numbering and Addressing of said Working Group, include, *inter alia*, the study and evaluation of technical issues related to number portability,

BEARING IN MIND:

a) That at the VII Meeting of Permanent Consultative Committee I: Telecommunication Standardization (PCC.I), held September 20 to 23, 2005, in Washington, D.C., United States of America, a Workshop on number portability was held;

b) That three years have passed since the holding of the Workshop mentioned in the preceding subparagraph, and that the topic still predominates on the regulatory agenda of the countries of the region and that some countries of the region implemented portability at that time, and others are analyzing its feasibility, or are about to implement it;

⁸ CCP.I-TEL/doc. 1340/08

- c) That current activities of the Rapporteur Group on Numbering and Addressing include the development of a Technical Notebook on number portability;
- d) That there are relevant regional experiences or models of number portability involving technical, operational, or regulatory treatment (Canada, Brazil, United States of America, and Mexico);
- e) That sharing such experiences and/or models will help the countries of the region to gain additional elements to evaluate the feasibility of implementing number portability in their countries, and will provide feedback for the Technical Notebook mentioned in *bearing in mind c*; and
- f) That the foregoing will provide elements necessary to continue identifying the interests of the region with regard to the topic of number portability for future work of the WGNOSP,

RESOLVES:

1. To hold a Seminar to share regional experiences and/or models of implementation of number portability in the Americas, during the meetings of the WGNOSP, to contribute to the sharing of experiences, in the framework of the XII Meeting of PCC.I.
2. This Seminar will be coordinated jointly by the Rapporteur of the Group and representatives of Brazil and Mexico.
3. To hold this Seminar in accordance with the draft agenda attached hereto as Annex.
4. To request the Working Group to use the Electronic Forum of CITEL to facilitate the coordination of the Workshop.

TO INSTRUCT THE EXECUTIVE SECRETARY:

To forward this resolution to all member states and Associate Members of CITEL, urging them to participate in the Workshop as both speakers and participants.

ANNEX TO RESOLUTION PCC.I/RES. 136 (XII-08)

**DRAFT AGENDA
SEMINAR TO SHARE REGIONAL EXPERIENCES AND/OR MODELS OF THE
IMPLEMENTATION OF NUMBER PORTABILITY IN THE AMERICAS**

Definition

Technical aspects

Operational aspects

Regulatory aspects

Regional experiences of member states (models)

Argentina

Brazil

Canada

Mexico

United States of America

Regional experiences of industry

Question and answer session

Conclusions

PCC.I/RES. 137 (XII-08) ⁹

AGENDA, VENUE AND DATE FOR THE XII MEETING OF PCC.I

The XII Meeting of the Permanent Consultative Committee I: Telecommunications,

RESOLVES:

1. To hold the XIII Meeting of the Permanent Consultative Committee I: Telecommunications on August 5 to 8, 2008 in Argentina.
2. To adopt the Draft Agenda for the XIII Meeting of PCC.I attached to this Resolution.

ANNEX TO RESOLUTION PCC.I/RES. 137 (XII-08)

DRAFT AGENDA

1. Approval of the agenda and schedule of activities.
2. Establishment of the Drafting Group for the Final Report.
3. Report and meeting of the Working Groups:
 - [3.1 Working Group on Technology \(WGT\)](#)
 - [3.2 Working Group on Policy and Regulatory Considerations \(WGPRC\)](#)
 - [3.3 Working Group on Network Operation and Service Provisioning \(WGNOSP\)](#)
 - [3.4 Working Group on Development \(WGD\)](#)

⁹ CCP.I-TEL/doc. 1359/08

4. Agenda, venue and date for the XIV Meeting of PCC.I.
5. Approval of the Final Report.
6. Other Business.

DETAILED DRAFT AGENDAS OF WORKING GROUPS

WORKING GROUP ON TECHNOLOGY (WGT)

1. Approval of the Agenda.
2. Report of the activities of the Working Groups since the last Meeting.
3. Allocation of Contributions to Rapporteur Groups.
4. Meeting and Report of the Rapporteur Groups:
 - 4.1 Meeting of the Rapporteur Group on Standards Coordination.
 - 4.2 Meeting of the Rapporteur Group on Network Infrastructure.
 - 4.3 Meeting of the Rapporteur Group on Advanced Services.
5. Other Business.
6. Adoption of the Final Report.
7. Conclusion of the meeting.

WORKING GROUP ON POLICY AND REGULATORY CONSIDERATIONS (WGPRC)

1. Approval of the Agenda.
2. Meeting and Report of the Rapporteur Groups:
 - 2.1 Rapporteur Group on Issues relative to Internet Resources.
 - 2.2 Rapporteur Group on Telecommunications Economic Aspects.
 - 2.3 Rapporteur Group on Cybersecurity and Critical Infrastructure.
 - 2.4 Rapporteur Group on Mutual Recognition Agreement for Conformity Assessment of Telecommunications Equipment (MRA) and Conformity Assessment Procedures.
 - 2.5 Rapporteur Group on Convergence.
 - 2.6 Rapporteur Group for the Preparation of the World Telecommunication Standardization Assembly (WTSA) and World Conference on International Telecommunications (WCIT).
3. Other Business.
4. Approval of the final report.

WORKING GROUP ON NETWORK OPERATION AND SERVICE PROVISIONING (WGNOSP)

1. Approval of the Draft agenda and calendar.
2. Report and meeting of the Rapporteur Groups:
 - 2.1. Rapporteur Group on Impact of New Services:
 - Progress with the study on problems of International Roaming provision at the South American level that is being implemented by the IIRSA.
 - Proposed Workshop of operators of the region to study problems of International Roaming provision and operation.
 - Preparation of a proposed Workshop of operators to review the business model for IPTV in a convergent environment to compile initiatives being implemented in the Americas and propose shared actions contributing to the implementation of this service at the level of the Americas region.
 - Creation of a Technical Notebook on New Service Provision, including the information contained in document CCP.I.-TEL/doc.1308, p. 2, regarding VoIP service provision.
 - 2.2. Rapporteur Group on Interconnection and Interoperability of Networks:
 - Processing of the surveys received on Next Generation Network (NGN) operators and submit a report to the Working Group on the XIII meeting.
 - Presentation of a draft resolution on the creation of a Technical Notebook on Interconnection and Interoperability of networks.
 - The co-Rapporteur will work on coordination of the Forum discussion group BTOPSINT on interconnection and interoperability of networks, and will provide a report on the main discussion points addressed, as well as observations and recommendations.
 - 2.3. Rapporteur Group on Fraud Control in Telecommunication Services:
 - Development of the third Workshop: “State-Operators User Protection Management Tools to Minimize the Impact of Fraud.”
 - Report on the survey inappropriate use of numbering resources in telecommunication service provision.
 - 2.4. Rapporteur Group on Numbering and Addressing:
 - Report of the Technical Notebook on number portability with the inclusion of the models adopted by the countries of the Region.
 - Report on the seminar to share regional experiences and/or models of the implementation of number portability in the Americas.
3. Report of the meeting.
4. Other Business.

WORKING GROUP ON DEVELOPMENT (WGD)

1. Approval of the Draft Agenda and Schedule.
2. Report and Meeting of the Rapporteur Groups.
 - 2.1 Rapporteur Group for developing ICTs in areas and groups with unattended needs or with specific issues
 - 2.2 Rapporteur Group on scientific and technological research and technology transfer
 - 2.3 Question: General updated information on projects and initiatives related to ICT
 - 2.4 Rapporteur Group on on the use of Telecommunications for Disaster Relief and Prevention
3. Other Business.

IV. RECOMMENDATIONS

PCC.I/REC. 2 (XII-08)¹⁰

IMPLEMENTATION OF IPV6

The XII Meeting of the Permanent Consultative Committee I: Telecommunications,

CONSIDERING:

- a) That consensus exists regarding the need to take the steps necessary for the deployment of IPv6 in an orderly and efficient manner;
- b) That although the period proposed, by 2011, is a reasonable target date, the States have their own administrative periods to be met so that there is justification for actions to begin immediately;
- c) That a new technology is available that provides countless advantages over its predecessor, mainly in the security area,

RECOGNIZING:

- a) That said technological change will yield security and efficiency benefits, not only to Administrations, but to all sectors of society as a whole;
- b) That support documentation exists and, essentially, groups of individuals, such as the task forces now existing in different countries, and those making global efforts to support new projects, in conjunction with academic and technical support efforts being made by the RIRs;

¹⁰ CCP.I-TEL/doc. 1296/08 rev.1

c) That the adoption of IPv6 in the Member States is a goal included in the regional action plan for Latin America and the Caribbean, eLAC2010,

RECOMMENDS:

1. Those Administrations that have not yet done so to adapt their procurement systems so that all communications equipment for which bids will be invited, or procured directly, have the mandatory capacity to support IPv6;
2. That within the scope of organizations with responsibility for communications in each country, groups of experts are formed as “IPv6 Task Forces,” as was mentioned above regarding certain countries;
3. That the member states, in conjunction with the private sector and the academic sector, carry out activities to promote IPv6 in their respective countries;
4. That actions are carried out in coordination with the private sector and the academic sector in order to achieve the deployment of IPv6 so as to fulfill the eLAC2010 goals;
5. That the member states of CITEL share, at the upcoming meetings of PCC.I, actions adopted to promote the deployment of IPv6 in their countries.

V. DECISIONS

The XII Meeting of Permanent Consultative Committee I: Telecommunications,

DECIDES:

PCC.I/DEC. 66 (XII-08) ¹¹	To instruct the Executive Secretary of CITEL that in coordination with the Rapporteur Group on Telecommunications Economic Aspects, and in line with the tasks that the Rapporteur is promoting in terms of Regulatory Accounting, establish a relationship with the International Telecommunication Union (ITU) in order to implement human resources training plans on said matters.
PCC.I/DEC. 67 (XII-08) ¹²	<ol style="list-style-type: none">1. That the Administrations are to forward, by June 30, 2008, their replies to the questionnaire on universal access and service development and the related funds for such aim (PCC.I/RES. 127 (XI-07)). Replies should be forwarded by e-mail to Mr. Pablo López (plopez@conatel.gov.ec). A report on the results obtained from the replies to the survey is to be presented at the XIII Meeting of PCC.I of CITEL.2. That the Administrations are to forward, by June 30, 2008, their

¹¹ CCP.I-TEL/doc. 1287/08

¹² CCP.I-TEL/doc. 1332/08

	<p>replies to the questionnaire on best practices regarding technology and innovation and technology transfer (PCC.I/DEC. 55 (X-07)) of the Rapporteur Group on Scientific and Technological Research and Technology Transfer, document CCP.I-TEL/doc. 1052/07. In document CCP.I-TEL/doc. 1326/08 there is an initial draft of the informational database, based on the information thus far received. Replies should be forwarded by e-mail to Mr. Oscar Galante (ogalante@agencia.secyt.gov.ar), Rapporteur for this topic. A revised document is to be presented at the XIII Meeting of PCC.I of CITEI.</p>
<p>PCC.I/DEC. 68 (XII-08)¹³</p>	<p>Bearing in mind that one activity of the Working Group on Development is, working together with the Coordination Center for the Development of Human Resources of COM/CITEI, to identify the telecommunication training needs of the human resources of the member states in order to establish an appropriate training framework of CITEI within the scope action of PCC.I.</p> <p>1. To request the Administrations of the member states and Associate Members to submit their replies to the questionnaire annexed hereto on training needs of PCC.I of CITEI, to that end sending their respective contributions to the following e-mail address: plopez@conatel.gov.ec by June 15, 2008.</p> <p>2. To instruct the Administration of Ecuador to process the replies received from the member states and Associate Members and to present a summary of the contributions at the XIII Meeting of PCC.I.</p> <p style="text-align: center;">ANNEX TO DECISION PCC.I/DEC. 68 (XII-08)</p> <p style="text-align: center;">QUESTIONNAIRE TRAINING NEEDS OF PCC.I OF CITEI</p> <p>Name of company, institution, or organization</p> <hr/> <p>1. Of the following aspects, please indicate those of greatest strategic interest for training in your company, institution, or organization:</p> <p>- By level of functions of staff members/employees of the company, institution, or organization</p> <ul style="list-style-type: none"> <input type="radio"/> Training of operational level personnel <input type="radio"/> Training of middle management level <input type="radio"/> Training of management-level personnel <p>- By area of interest</p>

¹³ CCP.I-TEL/doc. 1338/08

- Economic, accounting, and/or financial training
- Legal and regulatory training
- Administrative and business management training
- Public administration and management training
- Technical training

Please indicate, if applicable, specific areas where training is required, also indicating the level of function and area of interest, in accordance with the subsections of this question.

2. Of the following aspects, please indicate those where your company, institution, or organization can assist with trainers/instructors:

- By level of functions of staff members/employees of the company, institution, or organization

- Training of operational level personnel
- Training of middle management level
- Training of management-level personnel

- By area of interest

- Economic, accounting, and/or financial training
- Legal and regulatory training
- Administrative and business management training
- Public administration and management training
- Technical training

Of the following aspects, please indicate those where your trainers or instructors can assist, also indicating the level of functions and area of interest, in accordance with the subsections of this question.

3. Of the following aspects, please indicate those where your company, institution, or organization can assist with personnel who can work in collaboration in developing training material – academic or knowledge dissemination:

- By level of functions of staff members/employees of the company, institution, or organization

- Training of operational level personnel
- Training of middle management level

	<ul style="list-style-type: none"> ○ Training of management-level personnel <p>- By area of interest</p> <ul style="list-style-type: none"> ○ Economic, accounting, and/or financial training ○ Legal and regulatory training ○ Administrative and business management training ○ Public administration and management training ○ Technical training <p>Please indicate, if applicable, specific topics that can be developed in conjunction with the development of training material – academic or knowledge dissemination, also indicating the level of functions and area of interest, in accordance with the subsections of this question.</p> <hr/> <hr/> <p>4. Are there graduate level programs that you consider recommendable for staff members/employees of the company, institution, or organization? Please give details you consider pertinent for information and dissemination purposes.</p> <p>5. Are there cooperation organizations or organizations promoting scholarships, internships, or assistance for the training of individuals of which you are aware that are related to aspects included in this questionnaire? Please give details you consider pertinent for information and dissemination purposes.</p>
<p>PCC.I/DEC. 69 (XII-08)¹⁴</p>	<ol style="list-style-type: none"> 1. To invite the CITELE member states to review the proposals in documents CCP.I-TEL/doc. 1259 rev.1, CCP.I-TEL/doc. 1260 rev.1, CCP.I-TEL/doc. 1270, CCP.I-TEL/doc. 1271, CCP.I-TEL/doc. 1272, CCP.I-TEL/doc. 1280, and CCP.I-TEL/doc. 1286 and to submit their comments at the Regional WTSA-08 Preparatory Meeting to be held in Brasilia, Brazil, on May 19-22, 2008, so that the Inter-American Proposals that CITELE shall be submitting to the WTSA can continue to be drafted. 2. To invite CITELE members states to review also documents C07/21 and C07/94 of ITU Council 2007. 3. To instruct the Executive Secretary of CITELE to implement the actions indicated in the preceding paragraphs.
<p>PCC.I/DEC. 70 (XII-08)¹⁵</p>	<ol style="list-style-type: none"> 1. To distribute to the member states of CITELE the technical

¹⁴ CCP.I-TEL/doc. 1350/08 rev.1

¹⁵ CCP.I-TEL/doc. 1362/08

	<p>section of document CCP.I-TEL/doc. 1308/08, identified as part II on VoIP technology, and invite them to analyze this technical presentation and submit their contributions and points of view so as to enrich and update the data that they have on said issue and include them in the following PCC.I Meeting.</p> <p>2. To instruct the Executive Secretary of CITEI to implement the action defined in the paragraph above and to send to the Working Group on Policy and Regulatory Considerations the regulatory and economic parts of said document.</p>
PCC.I/DEC. 71 (XII-08) ¹⁶	To request the Executive Secretary of CITEI to thank the Telecommunication Standardization Bureau of the ITU on behalf of the PCC.I for its valuable support in offering to prepare manuals on the implementation of standards of interest to the region and to inform that the priority issues on which the Administrations would need those manual are, at this first stage, number portability, IPTV, Security, Electronic Numbering and IPv6.
PCC.I/DEC. 72 (XII-08) ¹⁷	<p>1. To invite CITEI member states to review the report of the First Meeting of the ITU-T Group of Experts (document CCP.I-TEL/doc. 1232/08) in charge of reviewing the International Telecommunication Regulations, especially the annex where a review of the ITRs is presented article by article, and to submit their contributions and points of view to the following meeting of PCC.I.</p> <p>2. To instruct the Executive Secretary of CITEI to implement the actions indicated in the preceding paragraph.</p>
PCC.I/DEC. 73 (XII-08) ¹⁸	<p>1. To circulate to the member states of CITEI and Associate Members of the PCC.I the Report with the conclusions of the Joint Workshop IIRSA/CITEI on International Roaming, held in Washington DC on March, 11, 2008 (document CCP.I-TEL/doc. 1330/08).</p> <p>2. To instruct the Executive Secretary of CITEI to implement the action defined in the paragraph above.</p>
PCC.I/DEC. 74 (XII-08) ¹⁹	<p>1. To extend the deadline for replying to the “Survey to Update the Document on CITEI Guidelines and Practices for Interconnection Regulation in the Americas,” contained in document CCP.I-TEL/doc.1084/08.</p> <p>2. To request the member state administrations to reply to the above-mentioned survey and to forward their replies to the CITEI Secretariat: citel@oas.org, by April 30, 2008.</p>

¹⁶ CCP.I-TEL/doc. 1363/08

¹⁷ CCP.I-TEL/doc. 1349/08

¹⁸ CCP.I-TEL/doc. 1356/08

¹⁹ CCP.I-TEL/doc. 1367/08

	<p>3. To present a preliminary report containing the updated document “CITEL Guidelines and Practices for Interconnection Regulation in the Americas” and possible recommendations thereon.</p>
<p>PCC.I/DEC. 75 (XII-08)²⁰</p>	<p>1. To instruct the Executive Secretary of CITEL to inform the Administrations that, at the electronic Forum of CITEL, under the “Yellow Book” Discussion Group, the last draft of the Yellow Book on assessment procedures of telecommunications products conformity in the Americas (document CCP.I-TEL/doc. 1342/08 rev.1 cor.1) will be available, and that they will be able to make comments, propose corrections or amendments to the drafted texts and discuss about them on said forum, until consensus regarding those texts is reached among the participants of said Discussion Group, all within the period of time between the XII Meeting of the PCC.I (12-14 March 2008) and the XIII Meeting of the PCC.I (5-8 August 2008).</p> <p>2. To request the member states Administrations to forward the information they may have at national level to add to or update the issues referred to in Annexes A, B, C, D and E of the Yellow Book via the “Yellow Book” Discussion Group at the electronic Forum of CITEL.</p>
<p>PCC.I/DEC. 76 (XII-08)²¹</p>	<p>To forward to the Members of CITEL a survey on the above-captioned matter containing the following questions, since neither member states nor Associate Members should be unaware that in their countries different problems have been detected involving the inappropriate use of numbering resources in the provision/operation of telecommunication services – fixed or mobile.</p> <p style="text-align: center;">ANNEX TO DECISION PCC.I/DEC. 76 (XII-08)</p> <p style="text-align: center;">INAPPROPRIATE USE OF NUMBERING RESOURCES IN THE PROVISION/OPERATION OF TELECOMMUNICATION SERVICES</p> <p>1. In your country’s telecommunication legislation, the activities related to the problems detected/reported are they defined as: fraud, irregular practices, anti-competitive practices, or other? Please list such practices and how they are defined in law.</p> <p>2. With what types of services and/or communications do such problems arise?</p> <p>3. Are such acts subject to any types of sanctions?</p> <p>4. Based on the foregoing replies and in order of importance, indicate the most frequent practices occurring on your country’s</p>

²⁰ CCP.I-TEL/doc. 1341/08 rev.1

²¹ CCP.I-TEL/doc. 1369/08

	<p>networks.</p> <p>5. Do you consider that the legislation and regulations in force in your country have been updated in keeping with the advent of the new technologies and convergence of services? If no, please summarize what types of provisions should be updated: technical, criminal, procedural, etc.</p> <p>6. If your country does not have legislation and/or regulations pertaining to such practices, has a specific proposal or proposals been made in your country to regulate them?</p> <p>7. What types of communications do such irregularities involve (incoming international traffic, national or local communications, etc.)? Please describe briefly.</p> <p>8. Are non-voice communications (Internet, data) considered telecommunication services, information services, other?</p> <p>9. Are voice over broadband communications regulated? Please describe briefly.</p>
PCC.I/DEC. 77 (XII-08) ²²	<p>Taking into consideration the need for ongoing experience exchange and constant update on the progresses made on the use of telecommunications for disaster mitigation and prevention, of special interest to the Working Group on Development:</p> <p>1. To request the Secretariat of CITEL to coordinate with the Regional Office of the ITU for the Americas and with the Center of Excellence for the Americas, the hosting of workshops via videoconference or web conference on the Use of Telecommunications for Disaster Mitigation or Prevention.</p> <p>2. To invite all Administrations of Central America and the Caribbean to actively participate and cooperate with the workshops to be held, as well as with the ongoing updating of all related knowledge and experiences.</p>
PCC.I/DEC. 78 (XII-08) ²³	<p>To request PCC.II to analyze the use of radio frequencies for telecommunication purposes in disaster mitigation, in accordance with the International Telecommunication Union (ITU) advances in this area, taking into account that the use of radiocommunication systems and services needs to be coordinated at the national and regional levels for better geographic coverage and benefit to the society.</p>
PCC.I/DEC. 79 (XII-08) ²⁴	<p>To instruct the CITEL Secretariat to request the Administrations and Associate Members to forward information to develop a roster of</p>

²² CCP.I-TEL/doc. 1351/08

²³ CCP.I-TEL/doc. 1352/08

²⁴ CCP.I-TEL/doc. 1370/08

	<p>organizations and agencies related to the use of telecommunications in disaster prevention and relief. The information to be forwarded should include a description of the organization or agency, its purposes, and the initiatives, plans, and experiences implemented or under way related to the matter under consideration.</p>
<p>PCC.I/DEC. 80 (XII-08)²⁵</p>	<p>To approve the Work Plan of PCC.I for the period 2008-2009 that is included in the Annex.</p> <p style="text-align: center;">ANNEX TO DECISION PCC.I/DEC. 80 (XII-08)</p> <p>1. WORKING GROUP ON TECHNOLOGY</p> <p>1.1 Rapporteur Group on Standards Coordination</p> <p>Work Plan:</p> <p>XII PCC.I Meeting (2008)</p> <p>a) Assess progress on Next Generation Networks (NGN) service, architecture, and protocol standards and recommend the adoption of Standards Coordination Documents (SCDs) as appropriate – (e.g., Emergency Telecommunication Service standards).</p> <p>b) Review status of the service, architecture and protocol standards related to Digital TV Broadcast/Multicast and IPTV and create SCDs, as appropriate.</p> <p>c) Assess progress on convergence standards – specifically NGN and IMS standards and the standards supporting service and application development.</p> <p>d) Review status of the security and critical infrastructure protection standards and create SCDs, as appropriate.</p> <p>e) Update the Technical Notebook, “Next Generation Networks – Standards Overview” with standards work on new technologies discussed.</p> <p>XIII PCC.I Meeting (2008)</p> <p>a) Assess progress on security standards and create Standards Coordination Documents (SCDs), as appropriate.</p> <p>b) Review status of the standards related to IPTV and create SCDs, as appropriate.</p> <p>c) Review status of the Application/Service standards and create SCDs, as appropriate.</p>

d) Assess progress on wireless broadband access standards (e.g., WiMAX).

e) Update the Technical Notebook, “Next Generation Networks – Standards Overview” with standards work on new technologies discussed.

XIV PCC.I Meeting (2009)

a) Assess progress on Identity Management, and create Standards Coordination Documents (SCDs), as appropriate.

b) Review status wireless broadband access standards (e.g., WiMAX) and create SCDs, as appropriate.

c) Consider initiating studies of NGN converged QoS framework standards (e.g., Resource and Admission Control Functions—RACF).

d) Update the Technical Notebook, “Next Generation Networks – Standards Overview” with standards work on new technologies discussed.

XV PCC.I Meeting (2009)

a) Review status of Intelligent Transportation Systems (ITS) and standardization activities in progress.

b) Review status of RFID technology and standardization of sensor/monitoring networks.

c) Assess progress on NGN converged QoS framework standards (e.g., Resource and Admission Control Functions—RACF), and create SCDs, as appropriate.

d) Update the Technical Notebook, “Next Generation Networks – Standards Overview” with standards work on new technologies discussed.

e) Reassess current Work Plan based on new developments in the telecommunications environment and propose a new work plan if necessary.

1.2 Rapporteur Group on Infrastructure

Work Plan:

XII PCC.I Meeting (2008)

a) Assess the evolution of technology advances of Next

	<p>Generation Networks.</p> <ul style="list-style-type: none"> b) Update Technical Notebook on Best Practices and Case Studies for Next Generation Networks. c) Update Technical Notebook Technical Notebook on Broadband Access Technologies. d) Continue developing the Technical Notebook on Power Line Communication (PLC) Technology. <p>XIII PCC.I Meeting (2008)</p> <ul style="list-style-type: none"> a) Continue work on the assessment of technology advances of Next Generation Networks, b) Update Technical Notebook on Best Practices and Case Studies for Next Generation Networks, c) Update Technical Notebook Technical Notebook on Broadband Access Technologies, d) Update Technical Notebook on Power Line Communication (PLC) Technology. <p>XIV PCC.I Meeting (2009)</p> <ul style="list-style-type: none"> a) Consider the creation of a Technical Notebook on Technology Advances of Next Generation Networks. b) Update Technical Notebook Technical Notebook on Broadband Access Technologies. c) Update Technical Notebook on Power Line Communication (PLC) Technology. <p>XV PCC.I Meeting (2009)</p> <ul style="list-style-type: none"> a) Update Technical Notebook Technical Notebook on Broadband Access Technologies. b) Update Technical Notebook on Best Practices and Case Studies for Next Generation Networks. c) Update Technical Notebook on Power Line Communication (PLC) Technology. d) Reassess current Work Plan based on new developments in the telecommunications environment and propose a new work plan if necessary.
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1.3 Rapporteur Group on Advanced Services

Work Plan:

XII PCC.I Meeting (2008)

- a) Assess the evolution of advanced services and propose studies of those services most widely deployed.
- b) Update Technical Notebook on “Study on characteristics of voice based networks using IP”.
- c) Update the Technical Notebook on Practical Cases of Internet Protocol Television (IPTV) Technology.

XIII PCC.I Meeting (2008)

- a) Consider the creation of a Technical Notebook on Emergency Services provided on Next Generation Networks.
- b) Continue with the assessment the evolution of advanced services and propose studies of those services most widely deployed.
- c) Initiate studies of the ways the countries of the region are evolving towards the convergence of services (e.g., wireless-wired, PSTN-IP based networks, etc.).

XIV PCC.I Meeting (2009)

- a) Update Technical Notebook on Study on characteristics of voice based networks using IP – Technology Aspects.
- b) Update the Technical Notebook on Practical Cases of Internet Protocol Television (IPTV) Technology.
- c) Continue with the assessment the evolution of advanced services and propose studies of those services most widely deployed.
- d) Review status of fixed-mobile convergence and its related advanced services.

XV PCC.I Meeting (2009)

- a) Update Technical Notebook on Study on characteristics of voice based networks using IP – Technology Aspects.
- b) Update the Technical Notebook on Practical Cases of Internet Protocol Television (IPTV) Technology.

c) Continue with the assessment the evolution of advanced services and propose studies of those services most widely deployed.

d) Reassess current Work Plan based on new developments in the telecommunications environment and propose a new work plan if necessary.

2. WORKING GROUP ON POLICY AND REGULATORY CONSIDERATIONS

2.1 Rapporteur Group on issues relative to Internet resources

Work Plan:

XIII and XIV PCC.I Meeting (2008-2009)

- a) Update ccTLDs in the region.
- b) Generate a partial report on the IP address block management situation in CITELE countries.
- c) Generate a document on regional policies.
- d) Generate two reports on the follow up of ICANN activities, a partial one in the XIII meeting and an advanced one in the XIV meeting.
- e) Follow up on the UN General Secretary Group for Internet Governance coordinated by the WG on Economic and Tariff Issues.

2.2 Rapporteur Group on Telecommunications Economic Aspect

Work Plan:

XIII and XIV PCC.I Meeting (2008-2009)

- a) Monitor economic aspects associated to Internet in the Americas (International Internet Connectivity and Traffic Flow Methodologies).
- b) Update the Technical Notebooks on the economic aspects related to power-line network utilization (PLC) for telecommunication service provision and financing mechanisms for telecommunication service provision to people with impaired capacities.
- c) Continue studying different economics aspects.

2.3 Rapporteur Group on Cybersecurity & Critical Infrastructure

Work Plan:

XIII and XIV PCC.I Meeting (2008-2009)

- a) Solicit further input from CITEL membership for the Technical Notebook to facilitate discussion of regulatory and policy aspects of cybersecurity.
- b) Explore possible regional best practices to develop a culture of cybersecurity in the Americas.
- c) Identify various frameworks for national action for cybersecurity in the Americas.
- d) Identify elements of existing national cybersecurity frameworks.

2.4 Rapporteur Group on Mutual Recognition Agreements and Conformity Assessment Procedures

Work Plan:

XIII and XIV PCC.I Meeting (2008-2009)

- a) Support all member states in their MRA implementation efforts.
- b) Finish the Yellow Book on Telecommunication Equipment Conformity Assessment Processes in the Americas.
- c) Develop guidelines on conformity assessment policies and procedures aligned with ISO/IEC standards, appropriate for the possible application by CITEL member states.
- d) Develop a cooperation Program with other regions on their conformity assessment processes, and propose suitable solutions for the CITEL member states.

2.5 Rapporteur Group on Convergence

Work Plan:

XIII and XIV PCC.I Meeting (2008-2009)

- a) Draw up and distribution of surveys on the current situation of convergence in member countries.
- b) Collect and analyze the information obtained by means of the surveys.
- c) Research and collect information on convergence and the regulatory frameworks and policies that they apply in domestic markets of countries other than CITEL members.

- d) Submit a status report in the next PCC.I meeting.
- e) Draw up and draft a final study report including proposals and guidelines on the regulatory framework and convergence policies.

2.6 Rapporteur Group for the Preparation of WTSA and WCIT

Work Plan:

XIII and XIV PCC.I Meeting (2008-2009)

World Telecommunication Standards Assembly

- a) Consider the reports from Study Groups and ITU's Telecommunication Standardization Advisory Group in order to identify issues of interest to the region.
- b) Establish a discussion group in the electronic forum to receive contributions on the subject from member states and Associate Members.
- c) Follow up on regional activities (APT, CEPT, RCC, etc.) that take place as preparatory steps for WTSA.
- d) Propose and approve the IAP's to be presented in the World Telecommunication Standards Assembly
- e) Review the results of the World Telecommunication Standards Assembly

World Conference on International Communications

Consider the results of the Plenipotentiary Conference 2006 and, coordinate Common Inter-American Proposals, as applicable.

3. WORKING GROUP ON NETWORK OPERATION AND SERVICE PROVISIONING (GNOSP)

3.1 Rapporteur Group on the Impact of New Services

Work Plan:

XIII PCC.I Meeting (2008)

- a) Draw up a Technical Notebook on the impacts of new services.
- b) Distribute questionnaires to obtain information on the various

services that can be implemented on NGN networks.

c) Submit a draft resolution for the programs of workshops on the implementation of regional roaming and development and the start-up of IPTV in the Americas as the starting point for providing convergent services.

XIV and XV PCC.I Meeting (2009)

a) Develop the workshop on regional roaming at the first meeting of PCC.I for 2009.

b) Develop, for the second meeting of PCC.I, to be held in 2009, the workshop on the problems that operators encounter as a result of the introduction of IPTV service.

c) Incorporate the documents produced at the workshops into the Technical Notebook on the impacts of new services.

d) Examine and provide the results obtained on the basis of the answers to the questionnaires on the various services that are provided on NGN networks.

3.2 Rapporteur Group on Interconnection and Interoperability of Networks

Work Plan:

XIII PCC.I Meeting (2008):

a) Correct the draft resolution to create the Technical Notebook on Network Interconnection and Interoperability, which must be submitted at the XIII meeting for adoption.

b) Process the questionnaires received on NGN network operators and submit a report to the Working Group at the XIII meeting.

c) The Co-Rapporteur shall work in coordination with the GTOPSINT discussion group on interconnection and interoperability of networks, which shall submit a report on the main discussion points dealt with, as well as observations and recommendations.

XIV PCC.I Meeting (2009):

On the basis of the results of the NGN network operators questionnaire and the discussion forum, a paper of guidelines, observations and recommendations shall be drawn up promoting network interconnection and interoperability between operators in a transparent fashion.

3.3 Rapporteur Group on Fraud Control in Telecommunication Services

Work Plan:

XIII PCC.I Meeting (2008):

- a) Develop a third workshop on fraud in the region under the auspices of the World Bank.
- b) Send a questionnaire on inappropriate use of numbering resources in coordination with the CITELE Secretariat.
- c) Compile information from the above-mentioned questionnaire until the next PCC.I, by the Co-Rapporteur.
- d) Submit report on the status of data-gathering by the Co-Rapporteur.
- e) Submit proposal to hold the following workshops on fraud in the region.
- f) Submit progress report on the joint work conducted with IIRSA and IDB.
- g) Develop workshops at XV and XVI meetings of PCC.I.
- h) Establish joint working ties with other research entities such as CFCA, FIINA, GSM, and ITU on the topics of fraud for the purpose of obtaining important information for the members of CITELE.

3.4 Rapporteur Group on Numbering and Addressing

Work Plan:

XIII PCC.I Meeting (2008):

- a) Hold a workshop on number portability.
- b) Submit the Technical Notebook on number portability.

4. WORKING GROUP ON DEVELOPMENT

4.1 Rapporteur for developing ICTs in areas and groups with unattended needs or with specific issues, which will deal with the following study questions:

- i. Indigenous peoples and communities.**
- ii. People with disabilities.**
- iii. Access to ICTs in areas or towns with unattended needs.**

Work Plan:

XIII PCC.I Meeting (2008)

Start-up of the compilation of information on national and international recommendations, commitments, and parameters.

XIV PCC.I Meeting (2009)

Submittal of the compilation of information on national and international recommendations, commitments, and parameters.

XV PCC.I Meeting (2009)

Holding a workshop on ICT development policies for areas or groups insufficiently serviced or under special situations to work on the following study questions.

XVII PCC.I Meeting (2010)

Issuance of public ICT development policies for areas or groups insufficiently serviced or under special situations to work on the following study questions.

4.2 Rapporteur group on scientific and technological research and technology transfer

Work Plan:

- a) Reiterate to all member delegations the request for information on the topics of this rapporteurship.
- b) Complete the database submitted at the XII Meeting on the basis of information of the administrations and those obtained by the members of the rapporteurship.
- c) Update information on science, technology and innovation organizations and institutions, as well as NGOs, networks, universities, technology centers and other organizations involved in the topics of this rapporteurship.
- d) With the representatives of the member countries, monitor the accuracy of the information supplied and the establishment of contacts for technical cooperation with the organizations mentioned in item c).
- e) Compile informative contributions from papers and initiatives produced by other organizations and institutions involved in scientific and technological research on telecommunications, which were submitted by the academic community at national and international

congresses.

f) Establish ties with other science, technology, and productive innovation organizations of member countries in order to ensure the update of information, especially with the Office of Education, Science and Technology of the Organization of American States.

g) Support all members in their efforts to implement the search and subsequent transmittal of information.

h) Set up, through CITELE's web page, an online discussion group to receive the contributions made by member States and associate members on this topic.

i) Follow up on regional contents that develop activities related to scientific and technological research on telecommunications, for their subsequent inter-relation and coordination.

j) Make progress in drawing up agreements between CITELE and other institutions of the continent that develop, compile, or articulate information related to current and future knowledge about ICT-related technological and scientific topics.

k) Produce an interactive CD that can be updated and that brings together not only the databases stemming from the present rapporteurship, but also any other information that might reflect the progress made in cooperation and agreements implemented with other academic, scientific, and technological organizations and institutions. Make the CD available on CITELE's web site.

Actions

Activities	Date
1. Encourage the administrations to make contributions to the Rapporteurship through the Discussion Group that has already been set up (item a).	XII Meeting of PCC.I
2. Identify the efforts made in other international organizations (item c).	XIII Meeting of PCC.I
3. Promote agreement between CITELE and ALTEC (Latin American Association of Technological	

Management) (item j)	
4. Items e), b), f), h).	XIV Meeting of PCC.I
5. Items i), j), k).	XV Meeting of PCC.I
6. Culmination of activities (item k).	XVI Meeting of PCC.I
7. Final delivery of CD.	XVII Meeting of PCC.I

4.3 Question: General updated information on projects and initiatives related to ICT

Work plan:

Technical Notebook or Reference Document that holds up-to-date general information on projects and initiatives in information and communication technologies for development in Latin America and the Caribbean that are relevant and pertain to the topics and sectors identified in the present Working Group.

4.4 Rapporteur Group on the use of Telecommunications for Disaster Relief and Prevention

Activities	Date
1. Encourage administrations to make contributions in the Rapporteurship through the Discussion Group that has already been created.	XI and XII Meeting of PCC.I
2. Identify efforts made in other international organizations.	XI, XII and XIII Meeting of PCC.I
3. Structure the tables of contents of the Technical Notebook.	2 months before XIV Meeting of PCC.I
4. Submit Technical Notebook.	XIV Meeting of PCC.I
5. Update Technical Notebook	XV Meeting of PCC.I

6. Permanently update Technical Notebook	XVI and following meetings of PCC.I

4.5 Other initiatives related to WGD

Work plan:

XIII PCC.I Meeting (2008)

- a) Submit results of the questionnaire on the training needs of PCC.I.
- b) Submit proposals for workshops on topics of interest of the WGD.

XIV PCC.I Meeting (2009)

- a) Submit proposal to conduct a study that would make it possible to draw up policies to improve connectivity in the region.
- b) Hold workshops on topics of interest of the WGD.

XV PCC.I Meeting (2009)

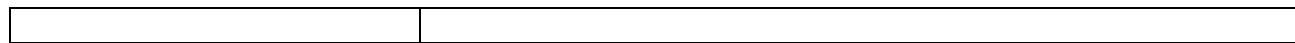
Submit questionnaires and working documents for the purpose of furthering the study on policies to improve connectivity in the region.

XVI PCC.I Meeting (2010)

- a) Draw up a questionnaire that makes it possible to establish generally applied indicators and statistical definitions for the member States for the purpose of evaluating development-related telecommunication and ICT aspects.
- b) Hold workshops on topics of interest of the WGD.

XVII PCC.I Meeting (2010)

- a) Submit the results of the study on policies to improve connectivity in the region.
- b) Submit the results of the questionnaire on generally applied indicators and statistical definitions for the member States for the purpose of evaluating development-related telecommunication and ICT aspects.
- c) Draw up an information plan for the purpose of managing the indicators to evaluate development-related telecommunication and ICT aspects.



VI. LIST OF BASIC DOCUMENTS

Summary Minutes of the Inaugural Session and the First Plenary Session:	CCP.I-TEL/doc. 1331/08 rev.1
Summary Minutes of the Second Plenary Session:	CCP.I-TEL/doc. 1360/08
Summary Minutes of the Third Plenary Session and Closing Session:	CCP.I-TEL/doc. 1368/08 rev.1
List of Documents:	CCP.I-TEL/doc. 1216/08 rev.3
List of Participants:	CCP.I-TEL/doc. 1217/08 rev.3
Final Report for the Meeting	CCP.I-TEL/doc. 1371/08 rev.1