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9-13 September 1996  
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# **FINAL REPORT**



**ORGANIZATION OF AMERICAN STATES  
Inter-American Telecommunication Commission**

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	Summarized Minutes of the Second Plenary Session PCC.I-293/96	
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## I. AGENDA <sup>1</sup>

1. Approval of the Agenda
2. Constitution of the Working Groups of the Meeting
3. Guidelines for the Annual Report of CITEL
4. Reports and Evaluation of the Reports of the Working Groups and Ad Hoc Groups
  - a. On Standards Coordination,
  - b. On Network Modernization and New Services,
  - c. On Certification Procedures,
  - d. On Value Added Services,
  - e. On Basic and Universal Telecommunication Services,
  - f. On Human Resources Development,
  - g. On the Study of the Global Information Infrastructure.
5. Presentation and Evaluation of the Report of the Joint Working Group on Legal Matters and Administrative Procedures of PCC.I, PCC.II and PCC.III (Presented by the Vice Chairperson, representative of CPP.I).
6. Considerations to the Third Meeting of the Steering Committee of COM/CITEL.
7. Senior Telecommunication Officials Meeting, September 1996.
8. Conclusions, Resolutions and Recommendations proceeding from the Meetings of the Working Groups and Ad Hoc Groups.
  - a. On Standards Coordination,
  - b. On Network Modernization and New Services,
  - c. On Certification Procedures,
  - d. On Value Added Services,
  - e. On Basic and Universal Telecommunication Services
  - f. On Human Resources Development.
9. Planning of the Activities of PCC.I for the budget cycle 1998-1999.
10. Preliminary Plans for the 1998 CITEL Assembly.
11. Preparations for the 1998 ITU World Telecommunications Development Conference.
12. List of Associate Members.
13. Other Matters.

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<sup>1</sup>. The Working Groups on Network Modernization and New Services and on Basic and Universal Telecommunication Services did not meet. However, the Group on the Study of the Global Information Infrastructure did hold a first meeting

14. Agenda. Venue and Date of the Sixth Meeting of the PCC.I.
15. Approval of the Summary Minutes of the Plenary Sessions.

## **II. AUTHORITIES**

Chairman : Mr. Gilberto Aquino  
Vice Chairman : Mr. Thomas Plevyak  
Executive Secretary : Mr. Roberto Blois

### **Drafting Group for the Final Report**

Coordinator : Mr. Pedro Milla Oviedo of Honduras  
Participants : Mr. Alberto Zetina of Mexico  
Mr. Rob Stephens of the United States  
Mr. Julio González of Guatemala  
Mr. Roberto Kanna of Peru

## **III.**

## **RESOLUTIONS**

### **PCC.1/RES 26 (V-96)**

#### **COMMON CHANNEL SIGNALLING No. 7 SIGNALLING CONNECTION CONTROL PART (SCCP) AND TRANSACTION CAPABILITIES APPLICATION PART (TCAP)**

#### **CONSIDERING:**

1. That Common Channel Signalling System No. 7 (SS No. 7) has been identified as a technical priority for CITELE as stated in COM/CITELE Resolution No. 8, 1994, which mandates PCC.1 to provide a Coordinated Standards Document;
2. That the Work Plan of the WGSC defines the SS No. 7 studies in a number of phases, the first of which is to study the SIGNALLING CONNECTION CONTROL PART (SCCP) and the TRANSACTION CAPABILITIES APPLICATION PART (TCAP) to be used for the International Connection across the Countries of the Region;
3. That a number of administrations and Operating Companies of CITELE countries are in the process of or have expressed interest in introduction of SS No. 7 in their Country or Network;
4. That SS No. 7 is required for the introduction of other technologies such as IN, ISDN, etc.

#### **TAKING INTO ACCOUNT:**

1. That substantial amount of work has already been done by CITELE Member Countries on the MTP and ISUP protocol areas (see for example Document WGSC-C016-E and references therein);
2. That the ITU-T has already addressed the need to seek a common set of messages, parameters and procedures in the definition of ISDN User Part (ISUP), Message Transfer Part (MTP), SCCP and TCAP to facilitate its deployment and minimize interworking complexities at International Boundaries;
3. That the acceptance of adopted recommendations included in this resolution is Voluntary;

**RESOLVES:**

1. To ENDORSE the attached Coordinated Standards Document (DOC. No. WGSC-D 024-E Rev. 1), that includes SCCP and TCAP protocols of SS No. 7.

**WGSC-D 024-E Rev.1**

This Coordinated Standards Document addresses the Signalling Connection Control Part (SCCP) and the Transaction Capabilities Application Part (TCAP) of the SS No. 7 to be used at International boundaries among member Countries of the Region.

Annex 1 describes the SCCP portion and Annex 2, the TCAP portion, respectively.

**ANNEX 1****SIGNALLING CONNECTION CONTROL PART (SCCP)****Recommendation for CITELE Member Countries  
Gateway Application****INTRODUCTION:**

1. This ANNEX indicates the ITU-T Recommendations that shall apply to the Signalling Connection Control Part (SCCP) for the International Interconnection between CITELE Member Countries. In addition, it indicates the EXCEPTIONS that will apply to the referred recommendations.

**RECOMMENDATIONS:**

1. For the International Interconnections, CITELE endorses the use of ITU-SCCP Recommendations Q.711 to Q.714 and Q.716, 1993.

**NORMATIVE REFERENCES:**

1. ITU-T Recommendation **Q.711**, Functional Description of Signalling Connection Control

- Part, 1993.
2. ITU-T Recommendation **Q.712**, Definition and Function of SCCP Messages, 1993.
  3. ITU-T Recommendation **Q.713**, SCCP Formats and Codes, 1993.
  4. ITU-T Recommendation **Q.714**, Signalling Connection Control Part Procedures, 1993.
  5. ITU-T Recommendation **Q.716**, Signalling Connection Control Part (SCCP) Performances, 1993.

**EXCEPTIONS FROM ITU-T WHITE BOOK RECOMMENDATIONS Q.711 to Q.714. (Applicable to text, tables and figures).**

1. **Q.711, "Functional Description of the Signalling Connection Control Part".**
  - a. **Q.711, Section 2 , Services provided by the SCCP.**  
Class 3 shall not apply.
  - b. **Q.711, Section 2.1, Connection Oriented Services.**  
Permanent signalling connections shall not apply.
  - c. **Q.711, Section 2.1.1.1.2 Data Transfer Phase.**  
Neither Flow Control nor Detection of Message Loss or Mis-Sequencing are supported.
  - d. **Q.711, Section 2.1.1.2.1 Overview.**  
N-EXPEDITED DATA, N-DATA ACKNOWLEDGE and N-RESET shall not apply.  
Negotiation of expedited data shall not apply.
  - e. **Q.711, Section 2.1.1.3.2 Connection Establishment Interface Elements.**  
Request-Reply interface shall not apply.
  - f. **Q.711, Section 2.1.2 Permanent Signalling Connections.**  
Shall not apply.
  - g. **Q.711, Section 2.2.1 Description.**  
There are two possibilities to transfer data without a connection Set-Up with regard to the Sequence Control Mechanism provided by the MTP:
    - The MTP and SCCP guarantee (to a high degree of probability) an In-Sequence Delivery of Messages which contain the same SLS Code. The SCCP user can demand this MTP service allocating a parameter "Sequence Control" into the primitive to the SCCP. The SCCP will put the same SLS Code into the Primitive to the MTP for all Primitives from the SCCP user with the same parameter "Sequence Control". The allocation of an SLS code to a stream of

primitives with the same "Sequence Control" parameter shall be in accordance with the requirements for load sharing within the signalling network. This requires the capability to allocate the same SLS to a stream of primitives to be supported by the MTP.

- If the In-sequence Delivery is not required (protocol class 0), the SCCP shall insert Signalling Link Selection (SLS) codes with the requirements for load sharing within the signalling network.

**h. Q.711, Section 4.1, Connection Oriented Procedures.**

Class 3 functions shall not apply.

**i. Q.711, Section 4.1.1.2 , Data Transfer Phase Function.**

- "Flow Control"
- "Expedited Data Support"
- "Missequence Detection"
- "Reset" and
- "Receipt Confirmation"
- Shall not apply.

**j. Q.711, Section 4.1.2 , Functions for Permanent Signalling Connections.**

Shall not apply.

**k. Q.711, Section 4.3, Management Functions.**

Coordinated State Change shall not apply.

**2. Q.712 "DEFINITION AND FUNCTION OF SCCP MESSAGES"**

**a. Q.712, Section 1.4**

Data Acknowledgment (AK) shall not apply.

**b. Q.712, Section 1.6**

Data form 2 (DT-2) shall not apply.

**c. Q.712, Section 1.7**

Expedited Data (ED) shall not apply.

**d. Q.712, Section 1.8**

Expedited Data Acknowledgment (EA) shall not apply.

**e. Q.712, Section 1.13**

Reset Confirm (RSC) shall not apply.

**f. Q.712, Section 1.14**

Reset Request (RSR) shall not apply.

**g. Q.712, Section 2.4**

Credit shall not apply.

- h. Q.712, Section 2.6**  
Diagnostic shall not apply.
  - i. Q.712, Section 2.11**  
Received Sequence Number shall not apply.
  - j. Q.712, Section 2.14**  
Reset Cause shall not apply.
  - k. Q.712, Section 2.17**  
Sequencing / Segmenting shall not apply.
- 3. Q.713 "SCCP FORMATS AND CODES".**
- a. Q.713, Section 3.4.1**  
Address indicator.  
On transmission of the called party address, the Subsystem Number (SSN) indicator field shall always be included and set to 0 if unknown. Bit 8 (reserved for National Use) shall always be set to 0 and is not evaluated.
  - b. Q.713, Section 3.4.2.3.1**  
Global title indicator = 0001, shall not apply.
  - c. Q.713, Section 3.4.2.3.2**  
Global title indicator = 0010, shall not apply.
  - d. Q.713, Section 3.4.2.3.3**  
Global title indicator = 0011, shall not apply.
  - e. Q.713, Section 3.5**  
Calling Party Address. For the International Network, if segmentation and reassemble of connectionless messages or return option is used, it is necessary to supply in the calling party address a unique identification of the originator. Inclusion of a Global Title, uniquely identifying the caller would be sufficient for this purpose. The address indicator shall never be coded as the "all zeroes" value.
  - f. Q.713, Section 3.8**  
Received Sequence Number shall not apply.
  - g. Q.713, Section 3.9**  
Sequencing / Segmenting shall not apply.
  - h. Q.713, Section 3.10**  
Credit shall not apply.
  - i. Q.713, Section 3.13**  
Reset Cause shall not apply.
  - j. Q.713, Section 4.8**

Data form 2 shall not apply.

- k. Q. 713, Section 4.9**  
Data acknowledgment shall not apply.
- l. Q.713, Section 4.12**  
Expedited Data shall not apply.
- m. Q.713, Section 4.13**  
Expedited data acknowledgment shall not apply.
- n. Q. 713, Section 4.14**  
Reset request shall not apply.

#### **4. Q.714 "SIGNALLING CONNECTION CONTROL PART PROCEDURES"**

- a. Q. 714, Section 1.1.2**  
Protocol classes, Class 3 procedures shall not apply.
- b. Q. 714, Section 1.1.2.3**  
Protocol Class 2. Permanent Signalling Connections shall not apply.
- c. Q.714, Section 1.1.2.4**  
Protocol Class 3. Shall not apply.
- d. Q. 714, Section 1.1.3**  
Signalling connections. Relay nodes without coupling of references shall not apply.
- e. Q. 714, Section 1.2.1**  
Connection establishment. Request reply interface shall not apply.
- f. Q.714, Section 1.2.2, Data Transfer.**
  - Flow Control
  - Expedited Data Support
  - Missequence Detection
  - Reset
  - Receipt ConfirmationShall not apply.
- g. Q.714, Section 3**  
Connection-Oriented procedures. Class 3 procedures shall not apply.
- h. Q.714, Section 3.1.3.1**  
Protocol Class negotiation. If a connection request for protocol Class 3 is received, it shall be lowered to class 2 in response.
- i. Q. 714, Section 3.1.3.2**  
Flow Control Window Negotiation shall not apply.

- j. Q. 714, Section 3.1.4.1**  
Initial Actions. REQUEST TYPE 1 Interface Element shall not apply.
- k. Q.714, Section 3.1.5.1**  
Initial Actions. REQUEST TYPE 2 Interface Element shall not apply.
- l. Q.714, Section 3.4**  
Inactivity Control. The Inactivity Test Procedures shall also apply on all connection sections within the International Network.
- m. Q.714, Section 3.5.1**  
General. Only DT1 message shall apply.
- n. Q.714, Section 3.5.2**  
Flow Control shall not apply.
- o. Q.714, Section 3.6**  
Expedited Data Transfer. Expedited Data Support shall not apply.
- p. Q.714, Section 3.7**  
Reset shall not apply.
- q. Q. 714, Section 3.8.2.1**  
Initial Actions. Permanent Signalling Connections shall not apply.
- r. Q.714, Section 3.9**  
Permanent Signalling Connections shall not apply.
- s. Q.714, Section 4.1.1.2.1**  
Expire of timer  $T_y$  may result in the invocation of the return error procedures in accordance with paragraph 4.1.1.2.3.
- t. Q.714, Section 5.3.1**  
General Congestion handling shall not apply.

## 5. ANNEX C C.4: Timers

The following constraint shall be obeyed for the timer:

$$T(iar)_{local} \geq 2 \times T(ias)_{remote} + X$$

It may be advantageous to make sure that the inactivity receive timer  $T(iar)$  is at least twice the inactivity send timer  $T(ias)$ , as used in the nodes at the other side of connection section. This avoids the situation in which a loss of one single Inactivity Test (IT) message (e.g.: due to short-term MTP congestion) causes the inadvertent release of an inactive SCCP connection. Loss of more messages (e.g. due to SP failure) will, however, still cause the connection to be released.

NOTE: X is a margin for the accuracy of the timers at both ends of the connection and for delay of the IT message. A value of about one minute may be appropriate.

## ANNEX 2

### TRANSACTION CAPABILITIES APPLICATION PART (TCAP)

#### Recommendation for CITELE Member Countries Gateway Application

#### INTRODUCTION

1. This Annex indicates the ITU-T Recommendations that shall apply to the Common Channel Signalling System No. 7 TRANSACTION CAPABILITIES APPLICATION PART (TCAP) for the International Interconnection between CITELE Member Countries.
2. In addition, it indicates the exceptions that will apply to the referred to recommendations.

#### RECOMMENDATIONS

1. The following ISUP Recommendations shall apply to the international Gateways:
  - a. ITU-T Recommendations **Q.771 to Q.774 and the requirements of these Recommendations shall apply.**

#### NORMATIVE REFERENCES

1. ITU-T Recommendation **Q.771.: "Functional Description of Transaction Capabilities". 1993.**
2. ITU-T Recommendation **Q.772.: "Transaction Capabilities Information Elements". 1993.**
3. ITU-T Recommendation **Q.773.: "Transaction Capabilities Formats and Encoding". 1993.**
4. ITU-T Recommendation **Q.774.: "Transaction Capabilities Procedures". 1993.**

#### EXCEPTIONS

None

**PCC.1/RES 27 (V-96)****INTELLIGENT NETWORK**

The Fifth Meeting of the Permanente Consultative Committee 1: Public Telecommunications Services,

**CONSIDERING THAT:**

1. COM/CITEL Resolution No. 8 (II-94) identifies Intelligent Networks (IN) as a key area for standards coordination and mandates PCC.I to provide a Coordinated Standards Document (CSD) by Mid 1996.
2. PCC.I Res. 20 (III-95) identifies IN as one of the four high priority areas of study within the Working Group on Standards Coordination (WGSC).
3. Several Administrations and Operating Companies are in the process of specifying or deploying IN based services in their countries or networks.
4. IN provides a functional architecture for many advanced capabilities and services currently under study in International Standards Bodies.

**RECOGNIZING THAT:**

1. Interest in the application of IN is increasing greatly within the region of America.
2. The services supported by an IN promote the harmonization and interoperability of networks and administrations within the Region.
3. The results of the 1995 IN questionnaire (as described in the CSD) indicate that IN based services of most immediate importance are freephone, calling card and virtual private network.
4. The results of the 1995 IN questionnaire also indicated interest in televoting, mass calling, universal number and PCS for future consideration.
5. The ITU-T has recognized the importance of IN and has developed and is continuing to evolve a series of recommendations defining services, functional and physical entities, information flows and protocols.
6. Regional standards bodies have studied and developed IN Standards based on the ITU-T IN recommendations (as described in the CSD).

**RESOLVES THAT:**

1. PCC.I endorse the ITU-T Intelligent Network Capability Set 1 (1995), Q.121x series of Recommendations as the foundation for the IN protocol.
2. PCC.I endorse initial implementations of IN protocols consistent with ITU-T IN

recommendations, or appropriate subsets (e.g. ETSI CS-1 Core INAP).

#### **RECOMMENDS THAT:**

1. The WGSC continue to monitor and determine the applicability for America of the ITU-T IN recommendations as they evolve (e.g. CS-2, CS-3).
2. The WGSC evaluate evolution options to facilitate inter-networking of IN based services between Member States
3. The WGSC continue to evaluate the service needs of America and provide implementation options based on the ITU-T IN recommendations, including the results of the 1995 IN questionnaire.

### **ANNEX 1**

#### **INTELLIGENT NETWORK COORDINATED STANDARDS DOCUMENTS**

##### **1. EXECUTIVE SUMMARY:**

An Intelligent Network (IN) is an architecture characterized by centralized service control and service logic, distributed switching functions and specialized resources. By using this architectural concept, service providers and network operators will be able to quickly and easily introduce new services, and these services may be made available to all subscribers.

The network functions needed to provide services are modular, reusable and portable among the physical entities. The IN architecture provides for the rapid introduction of new services as well as flexibility for service subscribers and users to control certain aspects of IN based services. Services may be created and customized as needed allowing for ease of use.

Understanding the importance of IN on the telecommunications networks of America, COM/CITEL Resolution 8 (II-94) mandates that IN be included as one of the areas of high priority and requests that PCC.I provide recommendations on IN and the introduction of IN based services across the Region.

To respond to this mandate and to further identify the interests and possible needs for IN across the Region, the Working Group on Standards Coordination (WGSC) issued a deployment and IN based services. The results indicated that IN is, indeed considered an important element in the modernization and evolution of their networks and will play a significant role in the introduction of advanced services in their networks. Some of the more strategic services provided by an IN include freephone, calling card, Virtual Private Network (VPN), televoting, mass calling, universal number and personal communications systems.

Taking these needs into account, the WGSC initiated an analysis of the various standards activities on IN, in particular their definition and development by the International

Telecommunications Union - Telecommunications Standardization Sector (ITU-T), European Telecommunications Standardization Institute (ETSI) and Bellcore. The analysis examined possible implementations of freephone and calling card services using various standards. Finally the WGSC took into consideration the long term evolution of IN standards to support future IN based services.

Based on this analysis, the WGSC recommends that the ITU-T IN Capability Set 1 (CS1) (1995) recommendations be used as the IN standard for the Region. However, taking into account that not all services require the complete set of functionality associated with IN CS-1 (1995), the WGSC recognizes that member countries may choose to initially adopt appropriate subsets of that functionality, such as the subset offered by the ETSI Core IN Application Protocol (INAP).

## **2. GUIDE TO DOCUMENT:**

This CSD describes the activities and rationale that guided the WGSC. Section 3 of this document describes the activities of this working group. Section 4 highlights the conclusions reached by the WGSC based on the analysis of information received. Possible future directions of the WGSC are presented in section 5.

The work of the WGSC was entirely driven by contributions coming into the meetings. Throughout this document, these contributions are referenced as appropriate. Section 6 of this document lists the contributions in chronological order. The first contribution to the WGSC was presented at the meeting in Ottawa, August 1994.

Besides directing the activities of the working group, these contributions provide valuable information about IN in general. Several contributions also provide extremely important information with respect to the general IN and service deployment plans of some CITEL members. For these reasons, the entire set of contributions will be preserved by the CITEL Secretariat and may be accessed as needed.

## **3. BACKGROUND**

### **3.1. The Mandate**

Understanding the importance of IN on the telecommunications networks of America, COM/CITEL Resolution 8 (II-94) mandates that IN be included as one of the areas of high priority and requests that PCC.I provide recommendations on IN and the introduction of IN based services across the Region. The mandate also requests that the initial response to this mandate be provided by mid year 1996. PCC.I Resolution 20 (III-95) in response identifies IN as one of four high priority areas to be addressed by the WGSC.

### **3.2 IN Plans in America**

An important first step in the work plans of the WGSC was to compile information from the various members of CITEL regarding their plans for deploying INs and IN based services. To this end, a questionnaire [3] was created by the group and

distributed by the CITELE Executive Secretary. The questionnaire focused on the network infrastructure at that time and the plans for the future (through 1997). Specific areas of interest were interfaces, protocols and services.

The responses to the IN questionnaire provided significant information on the needs and plans of several administrations and network providers. The respondents indicated that the most important set of IN based services were freephone, calling card and virtual private network. Also of importance were televoting, mass calling, universal number and personal communication systems.

The other important issue brought out in the responses were the plans for use of IN Standards. Respondents indicated that international IN standards recommendations would at sometime be deployed in their networks. Responses to the questionnaire also recognized the importance of some regional standards which are based on those of the ITU-T. For example, some network operators indicated that their initial deployment plans called for the use of ETSI Core INAP.

A summary of the responses to the questionnaire was presented as a contribution to the WGSC and PCC.I[4]. This contribution stimulated further contributions to progress the work of the WGSC.

### **3.3 Evaluation of IN Standards**

To carry out the mandate of PCC.I, in COM/CITELE Resolution 8 (II-94), it was necessary to study and evaluate various regional and international IN standards and specifications with the objective of proposing an initial response by mid 1996. Based on the contributions and evaluation of results during this time, the WGSC's specific objective was to recommend a set of international IN standard recommendations most favorable to America with respect to the implementation and deployment of the IN based services in the Region.

The following sub-sections provide findings during this evaluation period. Mainly, three IN documents were analyzed; ITU-T IN Capability Set 1 (CS-1), ETSI CS-1 Core INAP and Bellcore AIN.

### **ITU-T IN RECOMMENDATIONS**

The ITU-T has led the efforts in creating global IN standards. Through the work of the ITU-T, the four planes of the IN conceptual model were developed [1, 2]. The ITU-T recognized that services and interfaces represent two of the three important areas when considering an IN. The remaining aspect is that of the applications protocol used to communicate between the physical entities (e.g. SSP-SCP). The decision to create IN based services on a particular communications protocol can determine the ease or ability of IN's to interwork.

The ITU-T defined a series of Capability Sets (CS), recognizing that as the IN evolves, the standards recommendations must also evolve. In October 1995, ITU-T IN Capability Set 1 (CS-1), Q.121X series was approved as the first set in the CS series of the recommendations. This set of recommendations represent a full set of international standards which describes services, interfaces and protocols.

These recommendations are followed by CS-2 (scheduled to initiate Resolution 1 approval in January 1997), and development of CS-3 recommendations is about to start. This forward looking aspect of the ITU-T has encouraged and created plans to integrate IN and high bandwidth applications such as B-ISDN, Multimedia, Wireless and Personal Communication Systems (PCS).

One very important aspect of the ITU-T is that the participating members include many operating companies, service providers, telecommunications vendors and various regional standards bodies of the world. This, ITU-T IN CS-1 (1995) has become a truly global international standard.

### **ETSI IN RECOMMENDATIONS:**

The ETSI CS-1 Core INAP standards recommendations, which constitutes a subset of the ITU-T IN CS-1 recommendations, was developed making full use of the ITU-T CS-1 (1993) set of recommendations. A sub-set of the ITU-T IN CS-1 has been refined and was introduced into Europe with evolution plans consistent with the ITU-T IN recommendations. However, the popularity of these standards has grown beyond the boundaries of the European borders. This standard has been requested by the network services providers throughout Africa, the Middle East, Asia/Pacific and by some of the CITELE member nations. The ETSI CS-1 protocol makes use of an initial trigger detection point where the SCP assumes control of the IN call and monitors the progress.

It is believed that ETSI Core INAP represents a possible initial step in the deployment of IN based services when those services do not require all functionality included in the ITU-T IN CS-1 (1995).

### **Bellcore In Technical Requirements**

Another regional IN technical requirement, Bellcore Advanced IN Release 0.1 was analyzed and compared with ETSI Core INAP CS-1 [9]. A comparative study of the technical specifications between AIN R0.1 and ETSI Core INAP CS-1 is presented in a contribution [9].

### **3.4 Service Implementation Examples:**

In order to fully evaluate the selection of a standard, one must return to the service requirements to see if the selected standards satisfies this need. The 1995 In questionnaire results [4] indicated that Freephone and Calling Card Services are key IN based services in America: these two services are used to evaluate the selected standard.

Freephone service implementation examples captured in contributions [7,16,18] indicated that the ITU-T CS-1 (1995) standard, or appropriate subsets of the ITU-T CS-1 (1995) standards (e.g. ETSI CS-1 Core INAP), support the Freephone service needs as identified in the 1995 In questionnaire results [4].

Calling Card service implementation examples captured in contributions [14,17]

indicated that the ITU-T CS-1 (1995) standard supports the ACCS service needs as identified in the 1995 IN questionnaire results [4].

From these service implementation examples, one may conclude that the selection of the ITU-T CS-1 (1995) standard, or appropriate subsets of the ITU-T CS-1 (1995) standard (e.g. ETSI CS-1 Core INAP) satisfy the IN based service needs of America.

#### **4. CONCLUSIONS:**

The analysis indicated that the most appropriate IN standard is the ITU-T IN CS-1 capabilities. In these cases, a subset of IN CS-1 (1995) such as ETSI Core INAP foundation for IN standards which meet the needs of the Region.

It is recognized that not all network operators may require full ITU-T IN CS-1 capabilities. In these cases, a subset of IN CS-1 (1995) such as ETSI Core INAP represents a possible initial step in the deployment of IN based services.

##### **4.1 Normative ITU-T IN CS-1 (1995) References**

- ITU-T Recommendation Q.1210, Q.121x-series Intelligent Network Recommendation Structure, October 1995
- ITU-T Recommendation Q.1211, Introduction to Intelligent Network Capability Set 1, March 1993
- ITU-T Recommendation Q.1213, Global Functional Plane for Intelligent Network CS-1, October 1995
- ITU-T Recommendation Q.1214, Distributed Functional Plane for Intelligent Network CS-1, October 1995
- ITU-T Recommendation Q.1215, Physical Plane for Intelligent Network CS-1, October 1995
- ITU-T Recommendation Q.1218, Interface Recommendation for Intelligent Network CS-1, October 1995
- ITU-T Recommendation Q.1219, Intelligent Network User's Guide for Capability Set 1, April 1994
- ITU-T Recommendation Q.1290, Glossary of Terms Used in the Definition of Intelligent Networks, October 1995.

##### **4.2 Exceptions**

It is also concluded that there are no identified exceptions to the normative references listed in Section 4.1.

#### **5. FUTURE WORK**

As a result of discussions within the Working Group on Standards Coordination (WGSC), several factors become clear:

- IN Based service needs of America continue to evolve and must be reassessed

periodically;

- IN standards continue to evolve and must be reassessed to determine their applicability to meet these service needs;
- As networks evolve within the Member States, plans to provide internetworking between IN based services deployed in Member States must be evaluated.

It is therefore recommended that the WGSC continues its IN activities with emphasis on these topics.

## 6. REFERENCES:

- [1] "Intelligent Networks: An Overview," Juan Polanco, Ottawa, August, 1994.

Tutorial information on Intelligent Networks is provided, including the objective of IN, its present status, existing ITU-T Recommendations, regional IN Standards activities, and some challenges and opportunities to CITELE countries in providing IN-based services.

- [2] "Status of ITU-T Intelligent Network Capability Set 1," Tim Rinker, Tegucigalpa, Honduras, 20-24 February 1995.

This contribution provides a status update for the ITU-T CS-1 Recommendations.

- [3] "IN Related Questionnaire," CITELE PCC.1 WGSC Sub-Working Group for Intelligent Networks Letter to CITELE Members and Associate Members.

Distribution of IN Related Questionnaire.

- [4] "Results of the Intelligent Network Questionnaire," WGSC Intelligent Networks Sub Working Group, WGSC-DO21-E Washington D.C. 31 August - 8 September, 1995.

Summary of results received from the IN Related Questionnaire.

- [5] "Intelligent Network Capability Set 1 Services," Tim Rinker, Tegucigalpa, Honduras. 20-24 February, 1995.

Services captured in the ITU-T IN CS-1 Recommendations are described.

- [6] "Freephone Service Example Based Upon ITU-T CS-1 (1995)," Vice-Chairman, WGSC-C010-E, Washington D.C., 31 August - September, 1995.

Freephone service implementation example based on the ITU-T CS-1 (1995). Recommendation

- [7] "Implementation Example of Freephone Using ITU-T In CS-1," AT&T, WGSC-C004-E rev1. Washington, D.C., 31 August - 1 September 1995.

Freephone service implementation example based on the ITU-T CS-1 (1995) Recommendation.

- [8] "Calling Card Service Example Based Upon ITU-T CS-1 (1995)," Vice-Chairman, WGSC-C011-E Rev 1, Washington D.C., 31 August - 1 September, 1995.

Calling Card Service implementation example based on the ITU-T CS-1 (1995) Recommendation.

- [9] "A Comparative Study of ETSI INAP CS-1 and AIN R0-1," AT&T, WGSC-C003-E rev 1, Washington, D.C. 31 August - 1 September, 1995.

A comparative study of the technical specifications between Advanced Intelligent Network (AIN) Release 0.1 protocol and Capability Set 1 ETSI Core INAP. The contribution examines the differences between the two protocols and identifies pros and cons with respect to those differences.

- [10] "Estimated Demand for Automated Reverse Charge Services On the Intelligent Network (DINet 1-800)," Guatemalan Telecommunications Company (Guatel), Tegucigalpa, Honduras, 20-24 February, 1995.

Describes the Intelligent Network in Guatemala, services to be made available, the standardization of the Guatemalan IN, introduction strategies for new services and an estimated demand for the DINet 1-800 service.

- [11] "Servicios de Red Inteligente Llamadas Gratuitas y Llamadas a Credito," Telefonica de Argentina.

Freephone and Calling Card services implemented in the Telefonica de Argentina network are described.

- [12] "Information on IN services and protocols in the Brazilian Network," Brazil, WGSC-C003-E Asuncion, Paraguay, 18-22 March, 1996.

The document contains information about the IN platform implemented in the Brazilian network.

- [13] "Red Inteligente de Telefonica de Argentina. Implementacion y Evolucion," Telefonica de Argentina, Asuncion, Paraguay, 18-22 March, 1996.

IN service implementation and evolution plans for the Telefonica de Argentina Intelligent Network are described.

- [14] "Implementation Example of Calling Card Using ITU-T In CS1," AT&T (Lucent Technologies), WGSC-C009-E, Asuncion, Paraguay, 18-22 March, 1996.

This contribution provides an example of how a national Calling Card service may be implemented using the ITU-T IN CS-1 (1995) Recommendations.

- [15] "Freephone Examples Based on ITU-T In CS1," AT&T (Lucent Technologies),

WGSC-C010-E, Asuncion, Paraguay, 18-22 March, 1996.

This contribution provides an example freephone service based on the ITU-T IN CS-1 (1995) Recommendations.

- [16] "Freephone Service Example Based Upon ITU-T CS-1 (1995)," Nortel Inc, WGSC-C013-E, Asuncion, Paraguay, 18-22 March, 1996.

This contribution provides a sample freephone service description including mandatory and optional features, based on ITU-T In CS-1 (1995) Recommendations.

- [17] "ACCS Service Example Based Upon ITU-T CS-1 (1995)," Nortel Inc, WGSC-C014-E, Asuncion, Paraguay, 18-22 March, 1996.

This contribution provides a sample Automatic Calling Card service description, including mandatory and optional features, based on ITU-T IN CS-1 (1995) Recommendations.

- [18] "Ejemplo de Implementacion del Servicio FREEPHONE en la Red de Telefonica de Argentina Basado en la CORE INAP/ETSI (1994)," Telefonica de Argentina, WGSC-C002-S, Sao Paulo, Brazil, 3-7 June, 1996.

This contribution presents the feephone service implementation of Telefonica de Argentina, based on the ETSI Core INAP (1994) specification.

- [19] "Discussion: ITU-T CS-1 (1995) versus ETSI Core INAP," Nortel Inc., WGSC-C003-E, Sao Paulo, Brazil, 3-7 June, 1996.

This contribution provides a comparison between ITU-CS-1 (1995) Recommendations and the ETSI Core INAP specification.

- [20] "Proyecto Red Inteligente en Guatemala," Empresa Guatemalteca de Telecomunicaciones - GUATEL, WGSC-C008-S, Lima, Perú, 9-13 September, 1996.

This contribution provides implementation and deployment plans for the Intelligent Network of GUATEL.

### **PCC.I/RES.28 (V-96)**

#### **WORKING METHODS AND PROCEDURES FOR THE WORKING GROUP ON STANDARDS COORDINATION**

The Fifth meeting of Permanent Consultative Committee I (PCC.I), Public Telecommunications Services,

**CONSIDERING:**

- a) That the document on WGSC working methods and procedures was examined and provisionally approved by PCC.I at its September 1995 meeting held in Washington D.C. , subject to COM/CITEL's examination of Articles 2, 85 and 93 of the CITEL regulations.

**RECOGNIZING:**

- b) COM/CITEL RES.28 (III-95), Provisional Mandates of the CITEL regulations, Montevideo, Uruguay, December 1995, and
- c) Modifications of the WGSC document on Working Methods and Procedures in accordance with Resolution COM/CITEL RES.28 (III-95), provisional amendments to Articles 2, 85 and 93, revised and approved by the WGSC during the Closing Plenary Session held in Asuncion, Paraguay on March 21, 1996.

**RESOLVES:**

- 1) To approve the WGSC working methods and procedures attached hereto.
- 2) To recommend maintaining the Working Methods and Procedures approved by the WGSC, which shall include proposals for the modification and/or amendment of the document to cover future requirements within the working process to be considered by the PCC.I. in the future, and
- 3) To distribute the PCC.I Chairperson's document on Working Methods and Procedures to the Chairpersons of PCC.I Working Groups, PCC.II and PCC.III for review and consideration, as appropriate, and as a basis for the development of Working Methods and Procedures by PCCs and PCC Working Groups.

**WORKING METHODS AND PROCEDURES PROJECT OF THE  
WORKING GROUP ON STANDARDS COORDINATION (WGSC)****1. Introduction**

- 1.1 To facilitate the activities of the Working Group on Standards Coordination (WGSC), this document contains an Operating Process covering all aspects from development of the work plan to format and approval of deliverables. Also included are objectives and operating principles which provide the basis for the overall process, and in particular, the objective of the WGSC to develop Coordinated Standards Documents and accompanying Resolutions.
- 1.2 The WGSC was established by PCC.I in recognition of the important role of telecommunications standards in the work of CITEL. Activities of the WGSC, and the need for an agreed operating process has taken on more significance in view of

the directives given to CITELE by the Summit of the Americas "Telecommunications Action Plan" (Miami, December 9-11, 1994). Resulting from the directives, COM/CITELE adopted a Resolution which includes the establishment of priorities and timelines for PCC.I in the standards coordination area, in the 1995/1996 time frame.

- 1.3** Principles underlying the operating process take into account the promotion of compatibility and interoperability between the member states, the benefits of voluntary standards, the consensus nature of the process, compatibility with ITU Recommendations (and other international standards) and an agreed work plan.
- 1.4** The operating process includes formats and numbering schemes covering input and output documentation. In particular, a format is included covering the WGSC deliverables. This takes the form of a Resolution containing the key recommendations/enhancements and an accompanying set of guidelines and technical information.
- 1.5** The work objective is to develop a Resolution for each technical area under study. As such, this provides a focus for WGSC activities and is the vehicle by which PCC.I will convey the results of its work to CITELE. Resolutions will be reviewed on a two-year cycle.

## **2. Terms of Reference and Objective**

### **2.1. Terms of Reference**

- 2.1.1.** To be the Working Group for standards coordination in CITELE, in close cooperation with the Working Groups of all PCCs.
- 2.1.2.** To focus on technical questions and issues in the area of standardization coordination using, as a frame of reference, standardization activities underway at the international level in the ITU and other international standardization organizations.
- 2.1.3** To provide a focus for the interaction of standards organizations in the region that wish to cooperate on matters of common interest and to agree on the undertaking of important work by telecommunications standardization bodies in the Americas.

### **2.2. Objectives**

- 2.2.1.** The WGSC responsibilities and objectives are outlined in Resolution PCC.I Res.4 (I 94) which provides the basis for the development of a work plan in the standards coordination area.
- 2.2.2** The following objectives should be considered in the course of the work of the WGSC:
  - a. To promote harmonization of telecommunications standards among Member States

of the region by stimulating coordination and cooperation on standards matters, which facilitate interconnectivity and interoperability and harmonized services. Special emphasis is to be given to the body of standards laid down by the ITU and other international standardization organizations such as ISO/IEC,

- b. Enhance the participation and effectiveness of CITELE countries within the ITU and other international standardization organizations through better cooperation within the region on standardization activities. Broaden the exchange of information among CITELE Member States and the various Standards Development Organizations in the region, and,
- c. Coordinate with the Working Groups of all PCCs in those areas relating to standards coordination in order to meet the common objectives of CITELE.

### **3. Operating Principles**

3.1 The principles underlying the WGSC operating process are based on the fundamental premise that the WGSC will not develop standards, but will achieve consensus on Coordinated Standards Documents taking into account the different needs and telecommunications networks/services status within CITELE countries and within the framework of regional/global harmony and interworking.

3.2 Basic to the operating process are the principles of:

- a. Promotion of compatibility/interoperability among CITELE countries,
- b. Promotion of compatibility with the ITU Recommendations and other international standards, and,
- c. Endorsing existing standards, if appropriate.

3.3 The Coordinated Standards Documents will contain pertinent information, including references to existing standards and standards under development (with references to their source), and guidelines on the technical information.

3.4 It is recognized that Resolutions resulting from the WGSC will be based on the concept of voluntary acceptance of recommendations contained in such Resolutions. This refers to the application of coordinated standards by network providers, manufacturers and end-users.

By virtue of being voluntary, the coordinated standards can promote forward-looking and market-driven solutions achieving the flexibility necessary to meet the needs of the CITELE countries.

3.5 The work will be based on an agreed work plan driven by contributions primarily from CITELE Members and Associate Members.

3.6 There will be unrestricted access within CITELE to WGSC documentation including contributions and working documents. These documents will not include any

information of a commercial nature.

- 3.7 The principle of promoting information exchange with Standards Organizations will be encouraged. This includes interaction/documentation addressing specific CITEL coordinated standards needs and future work directions.
- 3.8 It is recognized that the use of Electronic Document Handling (EDH) in the activities of the WGSC will have clear advantages. The WGSC will consider the development of its own EDG capability, taking into account systems already in place, in order to make EDH available quickly to the WGSC members.

#### **4. Work Plan**

- 4.1 The period between CITEL Assemblies is considered to be the work period. At the beginning of each work period, a proposed organization and action plan for the work period shall be prepared by the WGSC Chairman. The work plan should take into account any priority and coordination arrangements recommended by COM/CITEL.
- 4.2 For projects involving more than one Working Group, baseline documents may be prepared in order to provide the basis for coordinated study among various Working Groups. The term "baseline document" refers to a document which contains the elements of common agreement on an ongoing basis.

#### **5. Structure**

##### **5.1 Working Group**

- 5.1.1 The WGSC has a Chairman, Vice Chairmen and a Secretary.
- 5.1.2 The WGSC Chairman is responsible for the establishment of structure for the distribution of work and appointment of Rapporteurs, as required.

##### **5.2 Rapporteur Groups**

- 5.2.1 The Chairman of the WGSC is encouraged to make effective use of limited resources by delegating responsibility to Rapporteur Groups or Ad-Hoc Rapporteur Groups for the detailed study of individual topics.
- 5.2.2 The following guidelines should be used:
  - a. Rapporteurs may be appointed at any time with the agreement of the WGSC and the Rapporteur or Ad-Hoc Rapporteur Group. The term of the appointment relates to the work to be done.
  - b. The appointment of Rapporteurs should be based primarily on their expertise in the topic(s) to be studied.

- c. The basis goal of each Rapporteur is to assist the WGSC to develop new and revised documents.
- d. Rapporteurs are responsible for the quality of their documents and shall be involved in the final review process.

## **6. Meetings**

### **6.1 Frequency and Timetable**

- 6.1.1** The WGSC will meet to facilitate its work toward the development and approval of Standards Coordination Documents and Draft Resolutions. Such meetings will only be held with the approval of PCC.I.
- 6.1.2** In the establishment of the work program, the timetable of meetings must take into account the time required for participating bodies to react and prepare contributions. Meetings should not be held more frequently than necessary to make effective progress and should take into account the resource capabilities necessary to provide the documentation. Meetings scheduled in less than three months intervals may incur the possibility of full documentation not being available.
- 6.1.3** In principle, the timetable of WGSC meetings should be prepared on a yearly basis and be submitted to PCC.I for approval. In addition, the timetable should be distributed to participating bodies well in advance by the CITES Secretariat (hereafter referred to as the Secretariat) to enable timely development of contributions.
- 6.1.4** Subject to availability of resources, the WGSC will schedule interim meetings, as will Rapporteur and Ad-Hoc Rapporteur Groups, to conduct ongoing activities within their mandates in the time period between regular WGSC meetings. Such meetings will be posted in the report of the previous regular WGSC meeting.

### **6.2 Notification**

- 6.2.1** Notification of WGSC meetings held in concert with PCC.I meetings will be part of the PCC.I notification.
- 6.2.2** For all other WGSC meetings, including interim meetings, the following procedures apply:
  - 6.2.2.1** A meeting notice announcing the location and draft agenda of the next WGSC meeting and containing the draft day-by-day work plan shall be prepared by the Chairman and sent to the WGSC mailing list and to the Secretariat.

6.2.2.2 A registration form will be sent out with the meeting notice. The registration form is required to indicate participation in the meeting. Individuals who attend without preregistration may experience a delay in receiving their documents.

6.2.2.3 The package containing the meeting notice and registration form should be received by the WGSC mailing list two months prior to the meeting.

6.2.2.4 If the WGSC meeting has not been previously planned and scheduled a meeting notice should be received at least two months before the meeting.

6.2.2.5 Rapporteur Group and Ad-Hoc Rapporteur Group meetings must be planned and agreed upon at the previous WGSC meeting.

### **6.3 Participants**

**6.3.1** Member States, Associate Members and other authorized entities may be represented in the WGSC by participants registered by name and chosen by them.

**6.3.2** Guests may be invited, subject to approval of the PCC.I Chairman and upon consultation with the country hosting the meeting.

### **6.4 Conduct**

**6.4.1** The Chairman shall manage the agenda and direct discussions during the meeting, with the assistance of the Vice Chairmen and the WGSC Secretary (hereafter referred to as the Secretary).

**6.4.2** Work Plan topics which have not elicited any contributions over the work period will be deleted from the list of items for study by the Chairman.

**6.4.3** The WGSC may set up temporary working teams for the duration of the meeting to study specific topics.

### **6.5 Reports**

**6.5.1** A Summary Report on WGSC status shall be prepared by the Chairman as input to the PCC.I meeting. This should be as brief as possible (i.e. two or three charts) and should include a summary of decisions, actions, outstanding issues, future work, questions to PCC.I, interim meetings and liaisons.

**6.5.2** A WGSC Meeting Report will be prepared by the Secretary, reviewed by the Chairman and then distributed by the Secretary to the WGSC mailing list, in the Secretary's native language, within thirty days. The report will also be sent to the Secretariat for translation and distribution. The report will contain resolutions presented to PCC.I for approval, key details of discussions, a list of contributions with summary descriptions, the Chairman's Summary Report and the results of any

Seminars held during the meeting. The Meeting Report will be approved at the next WGSC meeting.

- 6.5.3** WGSC reports and documents are not confidential. They may be distributed to nonmembers, with the approval of the WGSC Chairman, for the furtherance of CITELE initiatives.
- 6.5.4** On an annual basis, the WGSC Meeting Report shall include the current list of Rapporteurs. The list shall be updated, if required, in subsequent reports.
- 6.5.5** The format and content guidelines for WGSC meeting reports, as given in the Appendix (ANNEX A), should be followed.

## **7. Contributions**

### **7.1 Sources**

- 7.1.1** Member States, Associate Members, other duly authorized entities (e.g. ITU) and WGSC Chairman/Vice-Chairmen/Rapporteurs are eligible to present contributions to the Working Group.

### **7.2 Types**

- 7.2.1** Contributions submitted to the Secretariat two months in advance of a meeting will be numbered, translated and distributed to the WGSC membership. Submission in two languages is desirable. A copy must also be sent to the Chairman for his review with the Secretariat as to the appropriateness of the contribution (e.g. format, content). If a contribution is considered inappropriate, the author will be notified by the Secretariat and the contribution will not be translated and distributed.
- 7.2.2** Contributions submitted to the Secretariat in less than two months but not less than ten working days before the meeting will be distributed and numbered at the meeting. Submission in two languages is advised as the contribution will not be translated. A copy must also be sent to the Chairman for his review with the Secretariat as to its appropriateness.
- 7.2.3** Contributions generated during the meeting will be designated as Working Documents. Working Documents may be referred to the next meeting as a contribution.
- 7.2.4** Contributions carried into the meeting may be considered during the meeting at the discretion of the WGSC (with subsequent notification to the Secretariat) or referred to the next meeting as a contribution under 7.2.1.
- 7.2.5** Contributions of an administrative nature from the WGSC Chairman and Rapporteurs may be submitted during meetings as Working Documents.

### **7.3. Presentation**

7.3.1. Contributions not presented at the meeting by a source representative will be considered at the discretion of the Chairman, taking into account, the views of the WGSC.

#### **7.4. Guidelines**

7.4.1. With regard to the presentation of contributions to the study items assigned to the WGSC, the following guidelines apply:

- a. Contributions should be concisely drafted, avoiding unnecessary details, tables or statistics that make no direct contribution to the study. They should be clearly written with a view to being universally understood, i.e. they should be as codified as possible, use international terminology and avoid technical jargon peculiar to the author's country. When a contribution deals with several study subjects, these should be separated so that the text relating to each one begins on a fresh sheet of paper (not on the back of a page).
- b. A contribution should not as a rule exceed about 2,500 words (five pages), nor should it include more than three pages of figures (making eight pages in all). It should be accompanied by an abstract which is no more than 150-200 words, and which summarizes the aim of the contribution and its technical content. Whenever possible, a section with the heading DISCUSSION (or RATIONALE), should be used for the main text which sets forth the essential information required for justifying the proposals or conclusions of the contribution. The contribution should end with a PROPOSAL or if not feasible, a CONCLUSION (both if required). For self-explanatory proposals, the discussion section may be omitted.
- c. Documents of purely theoretical interest which are not directly related to the study should not be submitted.
- d. Passages of an unduly commercial nature should not be included in the contribution.

7.4.2. The format and content guidelines for contributions as given in the Appendix (ANNEX B) should be followed.

#### **8. Coordination With Other Working Groups**

8.1 When a broad subject is studied in more than one Working Group (either within PCC.I and/or across one or more PCCs), it may require coordination of planned work effort in terms of subject matter, time frames for meetings and publication objectives. When such a broad study can profit from such coordination, it may be accomplished by the establishment of a Coordination Group in consultation with the Chairman of the PCC or, if necessary, with the Chairmen of PCCs. The work will be conducted in the relevant Working Groups and the results subject to the normal approval processes within each Working Group.

8.2 Any Working Group may propose a joint coordination effort, seek approval to act as the Lead Working Group and assign a Rapporteur to lead the coordination

effort. Any Working Group may also propose that another Working Group take the Lead Working group role with a Liaison to that Working Group. A copy of the Liaison should also be sent to the Chairmen of the PCCs involved.

- 8.3 The proposal to establish a Coordination Group and take the responsibility of a Lead Working Group should first be discussed informally among the relevant Chairmen to seek agreement, and then be approved by consensus at a meeting of the Working Group which is so identified to take the lead.
- 8.4. The role of Coordination Group does not confer any authority upon its members not already provided by the Working Groups involved.

## 9. **Liaisons**

- 9.1. WGSC may liaise with any Working Group within CITELE. Liaisons are approved by the WGSC and communicated by the WGSC Chairman with a copy to the PCC.I Chairman.
- 9.2. Approval to liaise with organizations external to CITELE is subject to approval by the PCC.I Chairman.
- 9.3. The content guidelines for external liaison proposals and liaison documents as given in the Appendix (ANNEX C1 and C2, respectively), should be followed.

## 10. **Numbering of Documents**

WGSC documents will be numbered as follows:

WGSC-X YYY-Z

Where

X=R	(for reports)
X=W	(for working documents)
X=C	(for contributions)

YYY=Sequential number (over the work period)

Z=E	(for English original text)
Z=S	(for Spanish original text)

## 11. **Draft Resolutions, and Coordinated Standards Documents**

### 11.1 **Summary**

11.1.1. The outcome of a WGSC technical study is a Draft Resolution, and a Coordinated Standards Document (CSD). The Draft Resolution, to be approved at the PCC.I level, contains the principal recommendations. The CSD will be annexed to the Draft Resolution and will contain the technical information on which the Draft Resolution is based.

## 11.2 **Draft Resolutions**

11.2.1 Resolutions are the vehicles used by PCC.I to convey the principal recommendations from WGSC studies to CITELE Members. As such, Draft Resolutions from the WGSC cover the following aspects:

- a. Considering and recognizing statements,
- b. Endorsements of existing standards,
- c. Recommendations regarding options from existing standards,
- d. Appropriate references to international and national standards,
- e. Recommended actions by Standards Development Organizations which address specific CITELE needs, and,
- f. Statement regarding the voluntary nature of the recommendations contained in Resolutions.

11.2.2 Details of the format and content guidelines for Draft Resolutions are given in the Appendix (ANNEX D), and should be followed.

## 11.3 **Coordinated Standards Documents (CSDs)**

11.3.1. Details of the format and content guidelines for CSDs-Initiation Stage and CSDs are given in the Appendix (ANNEX E1 and E2, respectively), and should be followed.

## 11.4. **Final Form**

11.4.1 A composite document of the PCC.I agreed Resolution, and the CSD (including Guidelines on Use of Technical Information and a Summary) comprise the final form.

11.4.2. Details of the content guidelines for Final Form are given in the Appendix (ANNEX F), and should be followed.

## 12. **Approval Procedures**

### 12.1. **Normal**

12.1.1. At an appropriate time in the CSD initiation stage, the CITELE Secretariat will distribute the document to CITELE Member countries and Associate Members to stimulate awareness and interest and to generate information and comments.

12.1.2. The normal approval process is as follows:

- a. The Draft Resolution, with the accompanying CSD (including Guidelines), will be approved by WGSC for submission to PCC.I for their final approval.

- b. PCC.I approval of a Draft Resolution requires consensus with no objections.
- c. Following approval of the Resolution by PCC.I, the Final Form will be distributed by the CITEI Secretariat to Member States and Associate Members.
- d. Any comments from Member States and Associate Members will be considered in the next issue of the Resolution and CSD. COM/CITEI will be informed of the Resolution as part of the PCC.I Report. CITEI will be informed of the Resolution.

## 12.2 **Alternative Approval Procedure**

The WGSC will, from time-to-time, require an alternative procedure for PCC.I approval by correspondence.

## 13. **Maintenance**

- 13.1. If comments and/or contributions are received, the Resolution and CSD will be reviewed and reissued, if appropriate, in not less than two years.
- 13.2. Four years after issue, if no comments have been received, a reaffirmation process will be initiated.

## 14. **Electronic Document Handling (EDH)**

- 14.1 It is recognized that the use of EDH in the activities of the WGSC will have advantages.
- 14.2. The WGSC will consider developing its own EDH capability, taking into account systems already in place.

## **ANNEX A: Content Guidelines for Reports**

1. Introduction
2. Executive summary
3. Details of WGSC discussions (e.g. Subworking Group reports)
4. Interim meetings and subsequent PCC.I action
5. Resolution status and subsequent PCC.I actions
6. Liaisons
7. EDH Status
8. Future work
9. APPENDIX
  - 9.1. Agenda
  - 9.2. List of Attendees (country, organization, address, telephone, fax and e-mail)
  - 9.3. List of Contributions and Working Documents
  - 9.4. Coordinated Standards Documents (full text or referenced as appropriate)

*Note: WGSC Reports will be prepared by the WGSC Secretary, sent to the WGSC Chairman for comments, and distributed in the Secretary's native language within 30 days. A copy will be sent to the Secretariat for translation and distribution.*

## **ANNEX B: Content Guidelines for Contributions**

1. Abstract
2. Background
3. Statement of the Problem
4. Detailed Information Input
5. Conclusions/Proposals/Recommendations
6. References
7. APPENDIX
  - 7.1. Tables
  - 7.2. Figures

*Note: The author(s) should configure Sections 3, 4 and 5 above to suit the particular nature of the contribution.*

*Advanced contributions (two months prior to the meeting), delayed contributions (no less than ten days prior to the meeting) and contributions carried into the meeting (Working Documents), should follow the above format.*

*As an alternative to Item 7 above, Tables and Figures may be included in the text.*

## **ANNEX C1: Content Guidelines for Proposal to Liaise with an External Organization**

1. Source: PCCI Working Group on Standards Coordination
2. Location of WGSC Meeting
3. Date of WGSC Meeting
4. Title: Liaison to ( ) on ( )
5. Point of Contact in WGSC: Name, Organization, Address
6. Specific Description of Topic(s) and Key Words
7. Specific External Organization or Group
8. Proposed Nature of the Liaison , e.g.,
  - Technical discussion areas
  - Procedure (correspondence, attendance, etc.)
  - Special instructions/constraints

- External organization schedule
  - External organization contact
9. Lead PCC (in the case of liaisons from two or more PCCs to the same external organization)

*Note: This liaison proposal should be kept to one page in presentation format.*

## **ANNEX C2: Content Guidelines for Liaison Documents**

1. Abstract
2. Background
3. Statement of the Problem
4. Detailed Informations
5. Conclusions/Proposal/Recommendations
6. References
7. APPENDIX
  - 7.1. Tables
  - 7.2. Figures

*Note: The WGSC Editor(s) will configure Sections 3, 4 and 5 above to suit the particular nature of the liaison.*

*The liaison document will be transmitted via a cover letter from the WGSC Chairman to the Chairman of the liaised organization.*

## **ANNEX D: Format and Content Guidelines for Draft Resolutions**

1. Source: WGSC
2. Title: Draft Resolution on (            )
3. Considering that (            )

Refer to work plan, members priorities and interests, impact on other technologies, services needs, timelines, etc.

4. Recognizing that (            )

Refer to existing ITU/International Standards, voluntary acceptance, Member states status (as listed in the CSD), etc.

5. Resolves that (            )

Refer to specific endorsements of existing standards, options in those standards,

Member states needs (as listed in the CSD), etc.

6. Recommends that ( )

Refer to new areas of standardization to meet specific needs of Member states which should be addressed by ITU or other standards bodies, new PCC work activities, etc.

## **ANNEX E1: Content Guidelines for Coordinated Standards Document-Initiation Stage**

1. Introduction
2. Objectives of the Work Activity
3. Background
4. Summary of Standards Activities
- 5.1. International Standards
- 5.1.1. ITU-T Recommendations
- 5.1.2. Other International Standards Organizations
- 5.2. Regional Standards Summary
- 5.2.1. Region 1
- . .
- . .
- 5.2.X. Region X
6. Evolution of Standards Towards a CSD
7. Challenges and Opportunities to CITELE Countries
8. Conclusions
9. Acknowledgments
10. References

*Note: A technical point-of-contact should be indicated in the document.*

## **ANNEX E2: Content Guidelines for Coordinated Standards Documents (CSDs)**

1. Executive Summary
2. Introduction
3. Background
4. General Definition of Standard
- 4.1. International Standards
- 4.1.1. ITU-T Recommendations
- 4.1.2. Other International Standards Organizations
- 4.2. Regional Standards
- 4.2.1. Region 1
- . .
- . .
- 4.2.X. Region X
- 4.3. CITELE Country Specific Requirements: Overview
- 4.3.1. Country 1
- . .

- . .
- 4.3.Y. Country Y
- 5. Conclusions
- 6. Proposals/Recommendations
- 7. Future Work
- 8. References
- 9. APPENDIX
- 9.1. Summary Tables
- 9.2. Detailed Technical Data from Country I
- . .
- . .
- 9.Y. Detailed Technical Data from Country Y

#### **ANNEX F: Content Guidelines for Final Form**

1. Title: PCC.I Resolution ( )
2. Technical Area Addressed
3. Date of Issue, Issue Number
4. Contents List
5. Executive Summary
6. Resolution in Full
7. Guidelines on Use of Technical Information
8. ANNEX: Coordinated Standards Document (CSD)

*Note: The final form packages the PCC.I Resolution and CSD into a single convenient document for distribution to CITELE Member states.*

#### **PCC.1/RES 29 (V-96)**

### **ACCESS TO INTERNET AND THE WORLD WIDE WEB (WWW) IN THE AMERICAS**

The Fifth Meeting of the Permanent Consultative Committee 1: Public Telecommunications Services

#### **RECOGNIZING:**

1. That the exponential growth in information available on the WWW on telecommunication standards (e.g. ITU, ISO, IEC, ETSI, T1) and other information;
2. That the recent development of the OAS/CITEL WWW Home Page and its great potential in facilitating PCC.I work activities;
3. That the OAS RedHUCyt project (Hemisphere Wide Inter-University Scientific and Technological Information Network) is addressing the interconnection of different universities in the member states using INTERNET;

4. That the WWW will facilitate public dissemination of the work of PCC.I in particular and CITEI in general;
5. That the INTERNET and the WWW are considered to be important elements of a World Information Structure, and
6. The relatively slow growth in WWW network access capability in some areas of the Americas.

**CONSIDERING:~~CONSIDERING~~:CONSIDERING:**

1. That COM/CITEL Res. (9-III/95) instructs the Executive Secretary to identify the pertinent procedures to strengthen the links with International Organizations;
2. That COM/CITEL Res. (15-III/95) which recognizes the need to increase public awareness of CITEL and the creation of a WWW home page;
3. That COM/CITEL Res. (13-III/95) on the CITEL Strategic Plan includes amendments covering:
  - a. CITEL relationships with international organizations
  - b. Need to increase public awareness of CITEL and its work and objectives.
  - c. Stronger links between the three PCCs.

**RESOLVES:~~RESOLVES~~:RESOLVES:**

1. To promote use of the WWW and associated INTERNET email capability in all aspects of its activities by the membership.
2. To promote the widespread and timely implementation of the telecommunication access infrastructure in the Americas, necessary to support access to the information available over the WWW, through: continued work in the Working Group on Standards Coordination on use of the WEB and support to the work on this subject in the Network Modernization Group.

**REQUESTS:**

That the Working Group on Network Modernization analyze and implement the work pertinent to make recommendations for this resolution in the Telecommunications Networks of the Region.

**PCC.I/RES.30 (V-96)**

**CITEL GUIDELINES ON CERTIFICATION**

The Fifth Meeting of the Permanent Consultative Committee I: Public Telecommunications Services,

**NOTING:**

That CITEL, in order to fulfill the mandate given to it by the Miami Summit Americas to “examine ways of promoting greater consistency of certification processes for telecommunications equipment” established the Ad Hoc Working Group on Certification Processes (WGCP); and,

That the WGCP, as part of its efforts to make certification processes in the Americas more consistent, finalized work on the CITEL Guidelines on Certification at the Fifth Meeting of the Permanent Consultative Committee I: Public Telecommunications Services, held in Lima, Peru.

**RESOLVES:**

1. To approve the CITEL Guidelines on Certification, attached to the present resolution; and,
2. To request the Executive Secretariat to distribute to all members the text of this resolution and the CITEL Guidelines on Certification, herein attached.

## ANNEX 1

**CITEL GUIDELINES ON CERTIFICATION****PREAMBLE**

To promote the objectives set forth in the Plan of Action agreed to by the 34 Heads of Government at the Summit of the Americas in Miami, the Ad Hoc Working Group on Equipment Certification Processes recommends to CITEL Member States the following guidelines regarding telecommunications equipment certification processes in the Americas.

For the purposes of these guidelines, the following definitions apply:

- \* certification and homologation processes are the authorization/approval processes that must be followed in order to be granted permission for telecommunications equipment to be imported, marketed or used for stated conditions in each CITEL Member State.
- \* telecommunications equipment means both wireline terminal equipment that connects to public networks and wireless equipment whether or not it connects to public networks. Wireless equipment is that which uses radio spectrum, for example terrestrial and satellite radiocommunications and broadcasting.
- \* technical regulations are technical specifications and applicable administrative procedures with which compliance is mandatory according to national laws and regulations.

The objectives of these guidelines are:

- To ensure that certification processes of telecommunication equipment are pro-competitive in the sense of promoting modernization and investment in telecommunications, to facilitate the flow of goods and services; and to strengthen an open multilateral trading system.
- To develop a set of guidelines to promote an evolution of the certification processes for telecommunications equipment in order to make equipment certification processes across the Americas more consistent.
- To develop useful common criteria as the basis for technical regulations of CITEL Member States.

It is considered that the application of these guidelines would enable equipment to be introduced to the marketplace sooner and at lower prices to the end-user; would foster greater innovation; and would improve market access for telecommunications equipment suppliers to CITEL Member States.

Given the rapid evolution of technology and the need for proper regulation of telecommunications equipment, it is recommended CITEL Member States, in accordance with their respective national laws, regulations, and development priorities, apply these principles as soon as possible.



## **GUIDELINES FOR TELECOMMUNICATIONS EQUIPMENT CERTIFICATION PROCESSES**

It is recommended that CITELE Member States, in accordance with their respective national laws, regulations, and development priorities, conduct the certification processes of telecommunications equipment, according to the following guidelines.

Nothing in these guidelines is intended to prevent CITELE Member States from protecting consumer rights with regard to the functioning of telecommunications equipment through their relevant regulations or their applicable technical regulations. It is recognized that the trend in technical regulations is that they be limited to those established in paragraph seven of these guidelines. In light of this trend, member states may review technical regulations pertaining to consumer protection regarding the functioning of telecommunications equipment to determine their effect on technical innovation, choice of equipment, and cost to consumers.

1. Administrative procedures for certification of telecommunications equipment be conducted in a manner which:
  - \* limits information required to that strictly necessary for the purpose of assessing conformity to technical regulations and encourage the development of mechanisms to protect intellectual property;
  - \_.\* maximizes the available choices of telecommunications equipment;
  - \_.\* is non-discriminatory, and transparent, and it is recommended the application of reasonable and objective criteria;
  - \_.\* is undertaken, to the extent possible, by an entity separate and independent from the network operator;
  - \_.\* is streamlined in the issuance of certifications; and
  - \_.\* includes appeal and review processes.
2. Include, also, in these certification processes, requirements necessary to accept from telecommunications equipment suppliers test results issued by any laboratory in accordance with the accepting CITELE Member State's technical regulations and, when applicable, in the context of international agreements, including mutual recognition agreements. If criteria for laboratories is deemed necessary, these should be based, to the extent possible, on international standards and recommendations for laboratories (such as ISO/IEC Guide 25). Administrative procedures should minimize administrative delays and costs to equipment suppliers.
3. Carry out certification on the basis of type, rather than item by item, wherever possible, considering that equipment with no differences in product performance shall be treated as one type for purposes of certification.
4. Efforts be made so that certification and homologation be required only for wireline terminal equipment that connects to the public network and wireless equipment whether or not it connects to public networks and use the radio spectrum.

5. In the elaboration of the national technical specifications, use as reference the international technical standards when they are considered appropriate.
6. Efforts be made for technical regulations to be publicly available, including the interface between the telecommunications equipment and the public network.
7. Technical regulations relating to attachment of terminal equipment to the public network or relating to conformity of wireless equipment be limited to those necessary to:
  - prevent the equipment from causing technical damage to public telecommunications networks or electrical hazards to network operating personnel;
  - prevent harmful electromagnetic interference and ensure compatibility with other users of the spectrum;
  - prevent the equipment from causing billing malfunction or technical interference with, or degradation of, public telecommunications services;
  - ensure user safety, access for hearing impaired and access to emergency services.
8. Facilitate the participation of all interested parties (for example users, manufacturers, and service providers) in the development of technical regulations.

**CCP.I/RES 31 (V-96)****JOINT RESOLUTION OF THE FIRST MEETING OF THE CITEL  
COORDINATION WITH REGIONAL CENTERS AND THE WORKING  
GROUP ON THE DEVELOPMENT OF HUMAN RESOURCES**

The Fifth Meeting of the Permanent Consultative Committee 1: Public Telecommunications Services,

**CONSIDERING:**

That the I Meeting of the CITEL Coordination with Regional Centers addressed the issue of the support necessary for holding courses through the Regional Centers and the allocation of scholarships by the OAS, and that it was reported that the budget assigned by the OAS for scholarships for training telecommunications personnel in the region has been cut from US\$154,000 to US\$60,000 for 1997.

**TAKING INTO ACCOUNT:**

1. That it is essential for the American countries to keep abreast of the new trends in telecommunications worldwide
2. That training human resources is an essential element for the evolution of telecommunications and related services in the countries of the region, and that consequently to limit this process would have an adverse effect on the incorporation of the countries into this evolution. This effect would be greater in the less-developed countries.

**RESOLVES:**

1. To request the OAS Scholarships Department to consider the possibility of amending the agreements entailing the reduction of the budget allocation for CITEL training scholarships.
2. To request that the CITEL Executive Secretary be the channel for proposing to the competent OAS authorities that they reconsider the reduction in the telecommunications training scholarships budget.
3. To request that the Executive Secretariat send this resolution to COM/CITEL for the corresponding consideration.
4. Urge that the Regional Center Directors establish or increase, as necessary, the activities linked with the business and industrial sector, in order to obtain supplementary support for organizing courses and allocating scholarships.

**PCC.I/RES 32 (V-96)****AGENDA, VENUE AND DATE OF THE SIXTH MEETING OF THE PCC.I**

The Fifth Meeting of the Permanent Consultative Committee I: Public Telecommunications Services,

**RESOLVES:**

That the Sixth Meeting of the PCC.I will be held in Caracas, Venezuela, February 24 - 28, 1997, in accordance with the draft Agenda found in the Annex.

**ANNEX****DRAFT AGENDA****VI MEETING OF THE PERMANENT CONSULTATIVE COMMITTEE I:  
PUBLIC TELECOMMUNICATIONS SERVICES****February 24 - 28, 1997****Caracas, Venezuela**

1. Approval of Agenda
2. Constitution of the Working Groups of the Meeting
3. Presentation and Evaluation of Working Group and *Ad Hoc* Group Reports on:
  - a. Standards Coordination
  - b. Network Modernization and New Services
  - c. Certification Processes
  - d. Value Added Services
  - e. Basic and Universal Telecommunications Services
  - f. Development of Human Resources
  - g. Study of Global Information Infrastructure
4. Presentation and Evaluation of the Report of the Joint Working Group on Legal Affairs and Administrative Procedures of the PCC.I, PCC.II and PCC.III.
5. Considerations regarding the Meeting of the Senior Officials of Telecommunications
6. Considerations regarding the Fourth Meeting of COM/CITEL
7. Future of the PCC.I Working Groups and *Ad Hoc* Groups
8. Conclusions, Resolutions and Recommendations of the Working Group and *Ad Hoc* Group Meetings on:
  - a. Standards Coordination

- b. Network Modernization and New Services
  - c. Certification Processes
  - d. Value Added Services
  - e. Basic and Universal Telecommunications Services
  - f. Development of Human Resources
  - g. Study of Global Information Infrastructure
9. Analysis of results and activities connected with the ITU-T
  10. Preliminary Plans for the 1998 CITELE Assembly
  11. Preparations for the 1998 World Development Conference
  12. Preparations for the Seminars on the GII, interconnection and value-added services
  13. Other Matters
  14. Agenda, Venue and Date of the Seventh Meeting of the PCC.I
  15. Approval of the Minutes of the Plenary Sessions.

#### **IV. DECISIONS**

##### **PCC.I/DEC 4 (V-96)**

The Fifth Meeting of the Permanent Consultative Committee I decided that the Executive Secretary should send to CITELE Member Countries document PCC.I-281/96 submitted by the Ad/Hoc Working Group on Value Added Services, containing the preliminary report on the Regulation of Value Added Services in the Region. This document had been drawn up on the basis of the replies made by administrations to a questionnaire that had duly been distributed. Member Countries were asked to make whatever observations or statements they considered necessary, within a period of no more than thirty days. The report will be updated by the Committee chaired by the Peruvian delegation. Once contributions have been received and the report updated, the Executive Secretary of CITELE will send it to the ITU (TDB, Study Group 3) for their information.

**PCC.I/DEC 5 (V-96)****Extension of the Ad-Hoc Group on the Study of the Global Information Infrastructure.**

The Fifth Meeting of the Permanent Consultative Committee:I decided to extend the mandate of the Ad Hoc Group on the Study of the Global Information Infrastructure, created by Resolution RES.22 (IV.96) of the Fourth Meeting. The Ad Hoc Group, through its Chairman, will present a new working plan at the next PCC.I meeting, which will consider the existing infrastructure in the Member Countries and the way to promote their improvement, with the objective of implementing the Global Information Infrastructure in the Region.

## V. LIST OF BASIC DOCUMENT

Summarized Minutes of the First Plenary Session, CCP.I-285/96 Rev.1

Summarized Minutes of the Second Plenary Session, CCP.I-293/96, Rev.1

List of Documents, CCP.I-251/96 Rev. 1

List of Participants CCP.I-252/96, Rev.1

Final Report CCP.I-294/96

P1-294.i