

PCC.III/RES. 142 (XXI-02)¹
JOINT COOPERATION BETWEEN CITEL AND AHCINET
ON THE STUDY OF TECHNOLOGIES FOR BROADBAND WIRELESS
INTERNET ACCESS IN THE AMERICAS

The XXI meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

- a) That in accordance with decision COM/CITEL DEC.11 (IV-96), the chairman of COM/CITEL signed a cooperative agreement with AHCINET to undertake joint projects of mutual interest to both organizations for the purpose of promoting the development of telecommunications in the Americas;
- b) That AHCINET submitted to CITEL a proposal to perform joint studies on the use of Technologies for Broadband Wireless Internet Access toward the Information Society in the Region, and
- c) That the AHCINET proposal is aligned with the mandates of CITEL PCC.III,

NOTING:

- a) That in fulfillment of the Plan of Action of the Summit of the Americas (Quebec, 2001) CITEL was instructed to work with regional organizations and agencies to develop a cooperative and collaborative program to support an Agenda for Connectivity in the Americas;
- b) That according to the Action Plan of Quito established to fulfill the mandates of the Summit of the Americas, CITEL is committed to work with partners to organize regional or sub-regional workshops to assist telecommunications officials to understand and collaborate with others interested in the development of national Agendas for Connectivity in the Americas, and
- c) That CITEL is also committed to create a Forum on Connectivity on the CITEL web site to facilitate an exchange between interested parties and the development of a storehouse of information related to Connectivity,

RESOLVES:

- 1. To establish an Ad-hoc Group to coordinate the activities resulting from the Ahciet proposed study. The group will use the Electronic Forum to formulate a detailed Action Plan based on descriptions contained in Annex 1.

¹ Document PCC.III/doc.2353/02 rev.2.

2. To present the Action Plan, containing the working procedures, at the XXII meeting of PCC.III for approval.
3. To designate Mr. Eduardo Gabelloni from Argentina to chair the Ad-hoc group and Mr. Charles Glass from United States as Vice chair.

REQUESTS THE CHAIRMAN OF PCC.III:

- a) To inform AHCET of this resolution;
- b) To include information on the development of this study in the report of PCC III to CITEL General Assembly

INSTRUCTS THE EXECUTIVE SECRETARY OF CITEL TO:

- a) To assist the Chairman of PCC.III and the chair of the Ad-hoc group in conducting the joint work with AHCET;
- b) To establish a discussion group within the CITEL Electronic Forum, and
- c) Inform PCC.I of this resolution.

ANNEX TO RESOLUTION PCC.III/RES. 142 (XXI-02)

CITEL – AHCIET COOPERATION 2002

Proposal : Conduct a joint study on Technologies for Broadband Wireless Access.

Customer access to telecommunication services has shown sensitivity to the capacity and possibilities that the customers themselves may have in the final segment of the network, the last mile.

The growing need for broadband to support telecommunication services and the new applications available to the customers today is taking on an important role. In this sense the last mile is a bottleneck.

Knowing the current situation and the possibilities that telecommunication technology provides for resolving these concerns and the possibilities for its application to commercial networks has a direct impact on outreach and marketing plans for products and services of operating companies. Therefore, the influence of telecommunication technology transfers directly to the bottom line.

Moreover, trends highlight the growing importance of data networks on voice networks, independent of the mobility factor. Furthermore, the *de facto* adoption of the IP protocol is contingent upon the development of a large number of new telecommunication products and services and also, The future adoption of 2.5 G and 3 G digital mobile communication systems is a factor that leads one to think about the convergence between the mobile access networks and the Internet network itself.

The rapid familiarization of customers to the IP environment and its use together with the high rate of development of mobile services causes the product developers to think that the next milestone in the development of mobile communication markets will have to come from the convergence of both: wireless Internet.

The development of the Information Society of the Americas requires a considerable increase in connectivity, both for the citizens in the area of their population centers and between cities.

The initial situation in large areas of Latin America, with scarce fixed network density and the probability of having a cellular network sooner than a fixed network, makes fixed applications of cellular telephony an important element when it is time to procure a rapid development of the Information Society of the Americas.

However, in this regard, there is a series of regulatory, technological and harmonization circumstances, which make the study of these applications advisable before they are used as a foundation for incorporating the citizens of the continent into the Information Society.

The following is the proposal for this report:

- Current status of the problem of the last mile for wireless and fixed network access: regulation, spectrum and technological limitations.
- Technological possibilities for the last mile: solutions for fixed and mobile access networks.
- Comparative study of existing technological solutions: advantages vs. disadvantages.
- Versatility vs. price of last mile solutions.
- Presentation of case studies in implementing technologies for the last mile: lessons learned.
- Guidelines for telecommunication technology implementation projects in the last mile.
- Digital systems possibilities for mobile communications used in America for IP support.
- Implications of Internet access on mobile network elements: modifications of those elements and of the network operational and supervisory functions.
- Impact of mobile applications based on the IP protocol for cellular operators: interoperability of networks and roaming.
- Mobile network security in IP applications: transnational fraud.
- Products and services susceptible to being marketed through mobile networks with Internet access: access business vs. content business.
- Role of mobile service in the development of the Information Society of the Americas.
- Cellular technologies in fixed uses: description and functions.
- Advantages and disadvantages of these applications.
- Regulatory situation in the Americas.
- Guidelines for a harmonious development of the fixed and mobile network in the Americas.
- Information Society Services that can be supported by these solutions.
- Experiences in America: lessons learned.
- Conclusions and recommendations.
- Reference cases in development of cellular networks with Internet access: lessons learned.

Conclusions and recommendations.