PCC.I/RES. 93 (VIII-06) [1]

CREATION OF A TECHNICAL NOTEBOOK ON BEST PRACTICES AND CASE STUDIES OF NEXT GENERATION NETWORKS

The VIII Meeting of the Permanent Consultative Committee I: Telecommunications**,**

RECOGNIZING:

a) That Next Generation Networks are originating significant changes in the areas of research, education and communications development, providing new tools that bring us closer to other world communities;

b) That Next Generation Networks today are a part of communications and due to their great development contribute to the growth of individuals, communities and governments;

c) That Information Technology and Next Generation Networks are tools for the social and economic development of the region, and

d) That Technologies and Next Generation Networks are undergoing constant growth and, consequently, it is necessary to maintain models of case studies so that they serve as reference for the countries in the region,

CONSIDERING:

That PCC.I is well positioned to make an important contribution, providing models that countries are using in terms of technologies and design of NGN networks with updated information, facilitating the exchange of information and the focused discussion,

RESOLVES:

1. To create and update on an ongoing basis a Technical Notebook on Best Practices and Case Studies on Next Generation Networks in order to provide updated information that will facilitate consultation by countries in the region, as well as the discussion on Next Generation Networks. The draft Introduction and Index for this Technical Notebook is described in the Annex to this Resolution.

2. To appoint Ms. Maria Josefina Cano de Ahrens of COPACO, Paraguay as Coordinator of the Technical Notebook on Best Practices and Case Studies on Next Generation Networks, who will coordinate the inputs submitted by CITEL Administrations and PCC.I Associate Members..

INVITES:

1. The members of the PCC.I to participate and contribute to the creation of the Technical Notebook on Best Practices and Case Studies on Next Generation Networks in the region.

2. The other PCC.I Working Groups to contribute to the development of this document.

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1 Document CCP.I-TEL/doc.827/06 rev.4

ANNEX TO RESOLUTION PCC.I/RES. 93 (VIII-06)

TECHNICAL NOTEBOOK

BEST PRACTICES AND CASES STUDIES OF NEXT GENERATION NETWORKS

Index (to be included among others)

1. INTRODUCTION

The Next Generation Networks (NGN) represent the future evolution of present fixed and mobile communications. The basic difference between the NGN and the current networks is the move of the current networks from "circuit switching" to "packet switching" systems, such as those used by the Internet Protocol (IP). The NGN are expected to provide users of fixed and mobile lines with interface-free communications and to provide users with unrestricted access to different service providers in a multi-service, multi-protocol and multi-vendor environment. Therefore, is it absolutely necessary to have global standards on the NGN, as it is expected that most of the operators will transfer to an IP infrastructure; as well as having country developed models that may serve as experience or prototype for NGN networks.

The use of Next Generation Networks is originating significant changes in the areas of research, education and communications development, providing new tools that bring us closer to other world communities.

During the VII meeting of the Permanent Consultative Committee I, the Chairman of the Working Group for Standards Coordination requested inputs on Best Practices and Case Studies of Next Generation Networks, taking into account the interest raised by a presentation made by COPACO. The possibility of making a Technical Notebook on these issues was also discussed.

This notebook contains the case studies of Next Generation Networks so that it can serve as a reference and model of other experiences in the implementation of Next Generation Networks for all countries in the region.

The technological evolution is summarized in two basic aspects:

Service: Internet Protocol and broadband, such as by VoIP services, voice, data (triple play), video, networks, games and others.

Client Access Technologies (connectivity): Copper (ADSL), Cable, Wi-Fi, Wi Max, PLC, Satellite.

2. BEST PRACTICES OF ADVANCED NETWORKS TO BE IMPLEMENTED

2.1 CURRENT MARKET
2.2 OBJECTIVE
2.3 TECHNOLOGIES TO BE IMPLEMETED
2.4 ARCHITECTURAL DESIGN
2.5 STANDARDS USED
2.6 TRAFFIC ANALYSIS
2.7 SERVICES TO BE OFFERED

3. NETWORK DESIGN

4. CONCLUSIONES AND RECOMMENDATIONS