

**PCC.I/REC. 29 (XXXIV-19)<sup>1</sup>**

**ACQUISITION/COMMERCIALIZATION OF “CUSTOMER PREMISES EQUIPMENT (CPE)  
OF IPv6 READY”**

The 34 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

**CONSIDERING:**

- a) That Internet Protocol (IP) addresses are fundamental resources that are essential for the future development of IP-based telecommunication/ICT networks and for the development of new modalities of services offered via Internet.
- b) That an Internet Protocol (IP) address is the number that identifies, in a logical and hierarchical way, a network Interface, the communication and/or connection element of a device that uses said IP protocol.
- c) That two Internet Protocols (IP) are currently used: the IP version 4 (IPv4), defined in RFC 791 of the IETF, represented normally by a combination of four groups of decimal numbers, from 0 to 255, separated by periods, and the IP version 6 (IPv6), defined in RFC 8200 of the IETF, represented normally by eight groups of four-digit hexadecimal numbers separated by two periods.
- d) That the limits of IPv4 resources restrict the possibility of assigning IP addresses, crucial for the growth and development of the Internet and the implementation of Internet of Things (IoT) solutions, which require greater numbering resources, and IPv6 is a solution to this issue.
- e) That the devices that use Internet without the support of Protocol IPv6 have a negative impact on the deployment of IPv6 and the benefits that this Protocol can facilitate, not just immediately, but also fundamentally in the medium and long term, given the average useful life of these devices.
- f) That a **CPE (customer premises equipment)** is a local device on the customer side used to originate, direct, or terminate a combination of services, including data, voice, video, and others.
- g) That in our region there is the risk of acquiring a significant portion of obsolete CPEs that only support Internet Protocol 4 (IPv4), converting our countries into recipients of outdated equipment, sometimes considered “technological waste,” causing lags in terms of technology because of the impossibility of deploying new technologies and services that require a more massive use of IP routing space.
- h) That establishing plans and/or procedures to encourage the acquisition of CPEs that are compatible with IPv6 would help to reduce this risk significantly.

**RECOGNIZING:**

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- a) That CITEL Member States have used public policy tools within their scope to encourage IPv6 coexistence and deployment through the adoption of models, guidelines, recommendations, working groups, coalitions, etc.
- b) That for the acquisition and/or marketing of equipment for network deployment in countries in the region, it is necessary that the products, equipment, and CPEs support both IPv4 and IPv6 in the medium and long term.
- c) That, to this effect, CITEL Member States have discussed and approved some recommendations regarding the actions necessary to deploy and adopt IPv6:
- Recommendation PCC.I/REC. 7 (XVIII-11) “Networks and products procured and updated to support IPv6 in the Member States of CITEL” which promotes IPv6 coexistence and deployment through the adoption of models, guidelines and recommendations to ensure that purchases for or updates to their networks and products are compatible with both IPv4 and IPv6 in the medium and long term, taking into account government’s role as the primary purchaser of technology.
  - Recommendation PCC.I/REC. 15 (XX-12) “Regional Policies for the adoption and coexistence of IPv4/IPv6 for CITEL Member States,” which encourages the majority of countries to adopt measures to promote the implementation of joint policies to support the transition to IPv6.
  - Recommendation PCC.I/REC.27 (XXXII-18) “Promotion and Deployment of IPv6,” which recommends CITEL Member States continue the process to promote and incentivize the deployment of IPv6 in the region.

**RECOMMENDS:**

- a) That the Member States continue to promote and incentivize the deployment of IPv6 in the region, taking into account the following considerations:
1. Invite the Member States to establish, in all cases of acquisition and /or marketing of customer premises equipment (CPE), the use of the IP protocol as a necessary condition (and not as an option), the IPv6 support requirement, and the standards related directly to the normal operation of said protocol, in addition to the IPv4 support.
  2. Invite the Member States to establish that in certification, harmonization, and/or use authorization and marketing processes of CPEs, the use of the IP Protocol must be compatible with IPv6 in the countries of the region, as appropriate.
  3. Invite the Member States to establish, in all cases of equipment acquisition and/or marketing, to require the suppliers of CPEs using the IP Protocol, to issue “Certifications” of products compatible with IPv6, thus guaranteeing the minimum requirements for the deployment and correct functioning of IPv6 on their networks.
  4. Invite the Member States to request their relevant bodies and/or agencies to raise awareness and monitor the level of adoption of the aforementioned recommendations.
- b) That CITEL Member States be invited to carry out awareness, dissemination, capacity-building, and training campaigns for the deployment of IPv6 and the implementation of these measures.

**REQUESTS THAT THE CITEL EXECUTIVE SECRETARY:**

Send this Recommendation to the Member States.