



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

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

**31 MEETING OF PERMANENT CONSULTATIVE
COMMITTEE I: TELECOMMUNICATIONS/
INFORMATION AND COMMUNICATION
TECHNOLOGIES
August 1 to 4, 2017
Mexico City, Mexico**

**OEA/Ser.L/XVII.4.1.31
CCP.I-TIC/doc. 4543/17
4 October 2017
Original: Spanish**

FINAL REPORT

(Item on the Agenda: 6)

(Document submitted by the Secretariat of CITEL)

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FINAL REPORT

31 MEETING OF THE PERMANENT CONSULTATIVE COMMITTEE I: TELECOMMUNICATIONS/INFORMATION AND COMMUNICATION TECHNOLOGIES (PCC.I)

The 31 Meeting of the Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies was held in Mexico City, Mexico, August 1 to 4, 2017.

I. AGENDA ¹

1. Approval of the agenda and calendar of activities.
2. Establishment of the Drafting Group for the Final Report.
3. Work Plan for PCC.I.
4. Working Group reports and meetings:
 - 4.1 Working Group on Policy and Regulation (WGPR)**
 - 4.1.1 Rapporteurship on protecting the rights of telecommunication service users
 - 4.1.2 Rapporteurship on Internet: ecosystem and international connectivity
 - 4.1.3 Rapporteurship on roaming
 - 4.1.4 Rapporteurship on fraud control, regulatory non-compliance practices in telecommunications and regional measures against the theft of mobile terminal devices
 - 4.1.5 Rapporteurship on economic aspects of telecommunications/ICTs services
 - 4.1.6 Rapporteurship on telecommunication service quality
 - 4.2 Working Group on Development (WGD)**
 - 4.2.1 Rapporteurship on disaster prevention, response and mitigation
 - 4.2.2 Rapporteurship on Broadband for universal access and social inclusion
 - 4.3.3 Rapporteurship on follow-up of regional initiatives
 - 4.3 Working Group on Deployment of Technologies and Services (WGDTS)**
 - 4.3.1 Rapporteurship on Standards, conformity and interoperability
 - 4.3.2 Rapporteurship on Infrastructure, connectivity and service deployment
 - 4.3.3 Rapporteurship on Cybersecurity, vulnerability assessment and critical infrastructure
 - 4.3.4 Rapporteurship on Telecommunication numbering, portability and addressing
 - 4.3.5 Rapporteurship on Technological innovation and trends
 - 4.4 Working Group for the Preparation and Follow-up of the WTSA, WCIT and WTDC (WGCONF)**
 - 4.5 Ad hoc Group for the implementation of ICTs as tools for the empowerment of women**
 - 4.6 Ad Hoc Group for the identification of work priorities, expected results, and possible improvements in the participation of associate members for the next PCC.I study period.**
 - 4.7 Ad Hoc Group to coordinate strategic initiatives of the OAS related to Telecommunications/ICT.**
5. Agenda, site and date of the 32 Meeting of PCC.I.
6. Approval of the Final Report.
7. Other business.

¹ CCP.I-TIC/doc. 4389/17 rev.1

II. AUTHORITIES OF THE MEETING

Chair of PCC.I:	Mr. Rafael Munte Shwarz (Peru)
Alternate Chair of PCC.I:	Mr. Sergio Cifuentes Castañeda (Peru)
Vice Chair of the PCC.I:	Mr. Óscar Duarte (Paraguay)
Vice Chair of the PCC.I:	Mr. Edgard Eduardo Rodas Abarca (El Salvador)
Executive Secretary of CITEL:	Mr. Oscar León (CITEL/OAS)

Drafting Group:

Chairs

Mexico:

Ms. Nelly Arocha, Mr. Daniel Alegre

Members

United States of America:

Ms. Elizabeth Rojas Levi, Mr. M. Ethan Lucarelli

Uruguay:

Ms. Adriana Bauzá

III. RESOLUTIONS

PCC.I/RES. 285 (XXXI-17)²

GUIDELINES FOR DIGITAL INCLUSION AND MEANINGFUL BROADBAND ADOPTION IN THE AMERICAS

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

CONSIDERING:

- a) That Resolution PCC.I/RES.274 (XXIX-16) adopted at the 29 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I), held August 16 to 19, 2016 in the city of Lima, Peru, approved the workshop on “Digital inclusion and significant adoption of broadband in the Americas,” the Monday before the 30 Meeting of PCC.I;
- b) That said event was successfully held on April 17, 2017, in the city of Lima, Peru, one day before the 30 Meeting of PCC.I, and its conclusions and recommendations are contained in the document **PCC.I-TIC/doc. 4408/17**;

RECOGNIZING:

- a) That the promotion of broadband access, increased adoption of broadband services, and deployment of the broadband infrastructure support opportunities for economic and social growth in the region and are essential for the reduction of Digital and technological divide in societies;
- b) That the topic of digital inclusion and significant broadband adoption includes the review of policy issues for the promotion of infrastructure deployment, radio spectrum management, new technologies, regional initiatives for network interconnection, digital inclusion and the adoption of broadband services by population stakeholders, such as rural dwellers or people with disabilities;

GIVEN:

- a) That CITEL Resolution RES. 70 (VI-14) establishes that the strategic goals for CITEL’S Strategic Plan for the 2014-2018 period are: i) to promote the development of interoperable telecommunications/ICT in the Americas including infrastructure, services, equipment, and devices; ii) to promote initiatives to expand the use/adoption/penetration of telecommunications/ICT; iii) to promote the inclusion and affordability of telecommunications/ICT and reduce the digital divide;
- b) That it is part of the Terms of Reference of the Rapporteur’s Work Plan on Broadband for Universal Access and Social Inclusion, to issue recommendations and good practices regarding the deployment of broadband and its use to reduce the digital divide and increase the benefits of development or “digital dividends” with the use of broadband services;

² CCP.I-TIC/doc. 4453/17

- c) That the countries of the region have several examples of policies aimed at deploying transport trunks to extend broadband to rural and remote areas, as well as the deployment of last-mile, high-capacity infrastructure;
- d) That it is necessary to update public policy regarding the deployment of broadband infrastructure, use of spectrum and the development of content and applications that leverage this infrastructure;
- e) That the conclusions and recommendations of the “DIGITAL INCLUSION AND MEANINGFUL BROADBAND ADOPTION IN THE AMERICAS” contained in document **PCC.I-TIC / doc. 4408/17**, may be of value to the Member States in the formulation of policy for the development of broadband;

RESOLVES:

1. To approve the “GUIDELINES FOR THE DIGITAL INCLUSION AND MEANINGFUL BROADBAND ADOPTION IN THE AMERICAS” according to Annex I of this Resolution.
2. To instruct the Peruvian Administration to prepare a report compiling the presentations, conclusions, and recommendations made at the “WORKSHOP ON DIGITAL INCLUSION AND MEANINGFUL BROADBAND ADOPTION IN THE AMERICAS” held April 17, 2017 (**Document PCC.I-TIC/doc. 4408/17**), to be submitted at the 32 Meeting of PCC.I.
3. To disseminate the report on the “WORKSHOP ON THE DIGITAL INCLUSION AND MEANINGFUL BROADBAND ADOPTION IN THE AMERICAS.”

TO INSTRUCT THE EXECUTIVE SECRETARY TO:

1. Adopt the necessary actions for the distribution of the report prepared under Resolves 1, to the Administrations, Associate Members, and Organizations of the Telecommunications Sector, while also making it available to the general public through the CITEL website.

PCC.I/RES. 286 (XXXI-17)³

**STANDARDS COORDINATION DOCUMENT (SCD) FOR ITU-T G.989-SERIES
RECOMMENDATIONS: NEXT GENERATION OPTICAL NETWORKS: 40-GIGABIT-
CAPABLE PASSIVE OPTICAL NETWORKS (NG-PON2)**

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

³ CCP.I-TIC/doc. 4414/17 rev. 2

CONSIDERING:

- a) That there is a consensus that new forms of communication are fundamentally transforming the way in which people, communities, businesses and governments interact with each other;
- b) That PCC.I identifies broadband access technologies as a priority issue for examination;
- c) That PCC.I emphasizes the advantages of a prompt evolution towards networks supporting broadband access; and
- d) That the WGDTS maintains several Technical Notebooks related to the latest standardization and deployment of broadband access technologies,

RECOGNIZING:

- a) That the region's economy can be strengthened and its communities transformed by supporting the latest broadband access technologies throughout the Americas;
- b) That today, the most advanced forms of communication require high bandwidth interconnection;
- c) That ITU.T G.989-Series Recommendations, "Next Generation Passive Optical Networks (NG-PON2)" define a highly anticipated broadband access technology, providing fiber-optic access speeds well beyond 10 Gbit/s to support the optical-access demands of homes and businesses, mobile backhaul and other applications.;
- d) That the ITU-T Study Group 15 approved the G.989-Series Recommendations beginning in March 2013, with the latest Amendment approved in November 2016 under the "Alternative Approval Process" (AAP) and that it is now in force,

RESOLVES:

To endorse ITU.T G.989-Series Recommendations, "Next Generation Passive Optical Networks (NG-PON2)" with no deletions, additions or modifications; and

INSTRUCTS:

1. The Working Group on Deployment of Technologies and Services to continue to monitor the broadband access standards work of ITU-T Study Group 15 and consider its applicability for the Americas as this work evolves; and
2. The Working Group on Deployment of Technologies and Services to continue addressing the broadband access needs of the Americas and provide additional recommendations for endorsing standards that meet customer demands for broadband access and other innovative services.

ANNEX TO RESOLUTION PCC.I/RES. 286 (XXXI-17)

SCD FOR ITU-T G.989-SERIES RECOMMENDATIONS: NEXT GENERATION OPTICAL NETWORKS: 40-GIGABIT-CAPABLE PASSIVE OPTICAL NETWORKS (NG-PON2)

1. EXECUTIVE SUMMARY

The Working Group on Deployment of Technologies and Services (WGDTs) has addressed broadband access technologies as part of its studies of standards for Next Generation Networks (NGN), Services, Signaling, and Operations as they relate to the service access needs of the Americas. Part of this activity has included monitoring the work of the ITU-T. ITU-T Study Group 15 (Networks, Technologies and Infrastructures for Transport, Access and Home) defines standards on technologies and architectures for optical transport networks enabling long-haul global information exchange; fiber- or copper-based access networks through which subscribers connect; and home networks connecting in-premises devices and interfacing with the outside world. In this capacity, Study Group 15 approved, from 2013 to 2015, the G.989 Series Recommendations, specifying an NG-PON2 system supporting a 40-Gbit/s capable aggregate downstream capacity for residential, business, mobile backhaul, and other applications.

At the 29 Meeting of PCC.I (Lima; August 2016), it was reported that SG 15 had approved the addition to the G.989 Series Recommendations, “Next Generation Passive Optical Networks (NG-PON2)” in April 2016. This series of Recommendations defines a highly anticipated broadband access technology, providing fiber-optic access speeds well beyond 10 Gbit/s. The new series of standards addresses operators’ needs for common technologies to support the optical-access demands of homes and businesses, mobile backhaul and other applications. The WGDTs discussed the latest published formal specifications and considered drafting a proposal for endorsement at the 30 Meeting of CITEI PCC.I.

At the 30 Meeting of PCC.I (Lima; April 2017), the WGDTs agreed to endorse the G.989 Series Recommendations, “Next Generation Passive Optical Networks (NG-PON2)” and drafted a Resolution for the CITEI PCC.I plenary. The Resolution was not approved as some Member States required additional time to consider the technology proposed.

There have been no modifications to the ITU-T G.989 Series Recommendations since April 2017. Therefore, the WGDTs presents this Standards Coordination Document, once again, to endorse the ITU-T Rec. G.989 Series for implementation in the Region of the Americas.

2. BACKGROUND

Introduction

The recently completed ITU-T G.989-Series Recommendations define a highly anticipated broadband access technology, providing fiber-optic access speeds well beyond 10 Gbit/s. The new series of standards addresses operators’ needs for common technologies to support the optical-access demands of homes and businesses, mobile backhaul and other applications. Major operators are testing Next Generation Passive Optical Networks (NG-PON2) systems with the intention of deploying these systems in the near future.

ITU-T Study Group 15 completed the first of the NG-PON2 standards in 2013 and the completion of the G.989 Series in 2015. Amendments were published in 2015 and early 2016 to provide additional information on NG-PON2 network protection and restoration and physical layer evolution. The G.989-

series specifies a passive optical network (PON) system with a nominal aggregate capacity of 40 Gbit/s in the downstream direction and 10 Gbit/s in the upstream direction, capable of delivering 40-Gbit Fiber to the Home (FTTH).

The NG-PON2 series consists of three standards:

- [ITU-T G.989.1](#) describes the general requirements of NG-PON2 systems.
- [ITU-T G.989.2](#) specifies characteristics of the NG-PON2 physical media dependent (PMD) layer.
- [ITU-T G.989.3](#) specifies the NG-PON2 frame formats, messages, and protocols for data transmission.

General Requirements

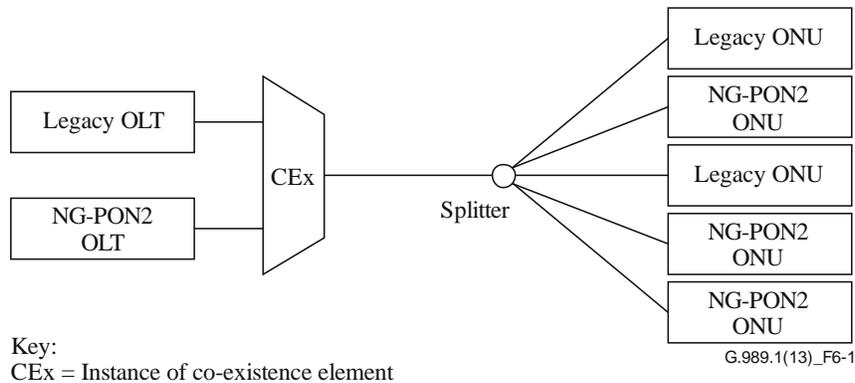
ITU-T Recommendation G.989.1 describes the general requirements of NG-PON2 systems supporting a 40-Gbit/s capable aggregate downstream capacity for residential, business, mobile backhaul, and other applications. This Recommendation includes the principal deployment configurations, migration scenarios from legacy PON systems, and system requirements. This Recommendation also includes the service and operational requirements to provide for a robust and flexible optical access network supporting all access applications.

The NG-PON2 system is capable of meeting the needs of a wide range of networks in diverse markets and is deployable in numerous applications in an efficient manner. NG-PON2 systems are required to fully support various services and applications through its high quality of service and high bit-rate capability, and must at least meet basic system requirements such as synchronization and quality of service (QoS). NG-PON2 systems must support legacy services, such as POTS and T1/E1 using *emulation* and/or *simulation*, high speed private line (framed and unframed), and emerging packet-based services.

The emulation option delivers packet-formatted traffic through the PON network, i.e., between the Optical Line Terminal (OLT) and Optical Network Unit (ONU), and possibly through some level of aggregation, then converts back to the relevant legacy format to hand it off to the legacy network. The simulation option is an end-to-end packet delivery starting at CPE terminal adaptation device or ONU, to the NG-PON access and the NGN packet network. An Ethernet packet size up to 9 000 bytes must be supported. Optical business services such as wavelength services and OTN must be supported.

This Recommendation also describes smooth migration scenarios from legacy PON systems to NG-PON2 systems. Furthermore, NG-PON2 systems are expected to meet bandwidth growth and enable new revenue streams on legacy Optical Distribution Networks (ODN) as well as supporting greenfield applications over new ODNs.

To facilitate co-existence, an NG-PON2 system must be capable of reusing existing legacy PON optical power splitters and must also operate in usable spectrum not occupied by legacy PONs in a particular deployment. However, an NG-PON2 system could re-use the spectrum allocated to legacy PON systems if not co-existing with those PONs. NG-PON2 systems must allow co-existence over the whole, end-to-end ODN including co-existence over the feeder fiber (see figure below). The co-existence of NG-PON2 systems with legacy RF-video overlay must be supported.



ODN co-existence scenario

ITU-T Recommendation G.989.1 was completed in March 2013 and updated in August 2015.

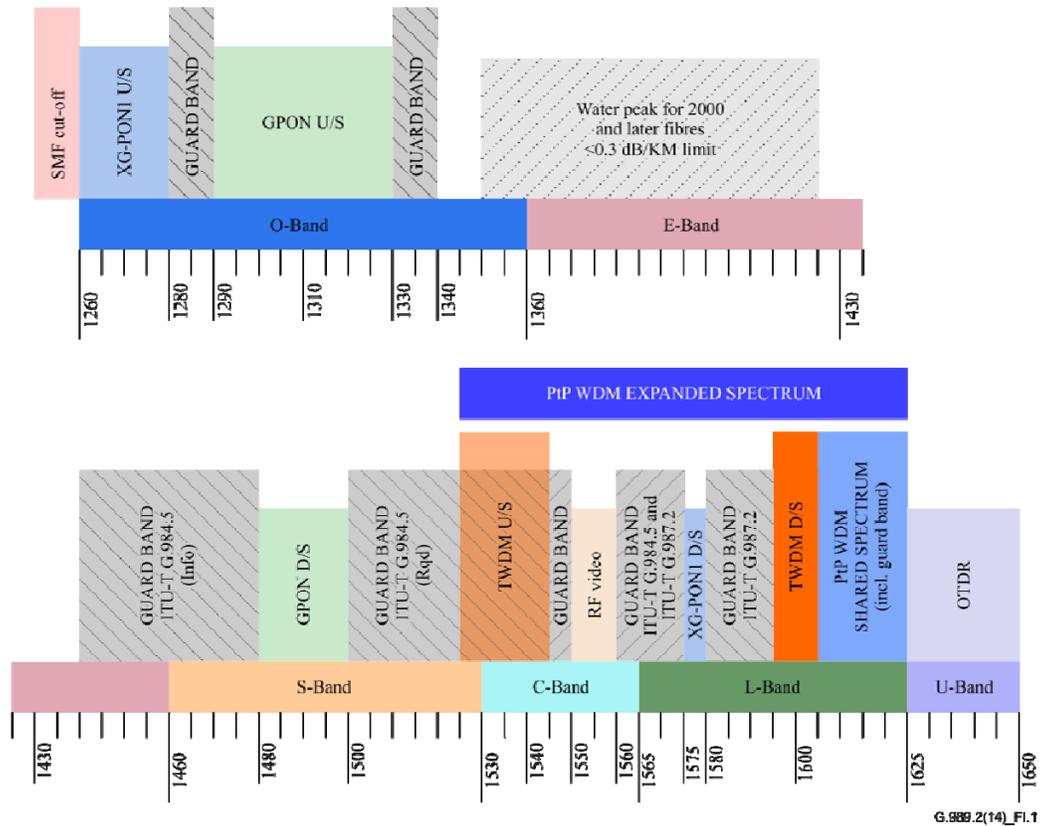
Physical Layer

Recommendation ITU-T G.989.2 specifies the physical media dependent (PMD) layer requirements for a passive optical network (PON) system with a nominal aggregate capacity of 40 Gbit/s in the downstream direction and 10 Gbit/s in the upstream direction. This Recommendation details the characteristics of hybrid time and wavelength division multiplexing (TWDM) channels, referred to as TWDM PON. The characteristics of optional, tuneable point-to-point wavelength overlay channels are also described, referred to as point-to-point wavelength division multiplexing (PtP WDM) PON.

The NG-PON2 wavelength plan is defined to enable the coexistence through wavelength overlay with legacy PON systems. When considering coexistence for NG-PON2, the following legacy PON systems were considered:

- G-PON
- XG-PON1
- RF video overlay
- OTDR

The mapping of these wavelength bands for each system is graphically shown below to provide an understanding of the considerations when coexisting with NG-PON2.



NG-PON2 wavelength plan – Coexistence representation

ITU-T Recommendation G.989.2 was completed in December 2014 and updated in April 2016.

Data Formats

Recommendation ITU-T G.989.3 specifies the transmission convergence layer of 40 Gigabit-capable passive optical network (NG-PON2) systems providing optical access for residential, business, mobile backhaul and other applications. The transmission convergence (TC) layer is the protocol layer of the NG-PON2 system that is positioned between the physical media dependent (PMD) layer and service clients.

A NG-PON2 system supports multiple wavelength channels and enables flexibility to add capacity as the demand grows to 100 Gbit/s and beyond. A NG-PON2 system may contain a set of time and wavelength division multiplexing (TWDM) channels, or a set of point-to-point wavelength division multiplexing (PtP WDM) channels, or both. The TWDM channels operate at the nominal line rates of 9.95328 and 2.48832 Gbit/s in both downstream and upstream directions. The PtP WDM channels support nominal line rate classes of 1.25 Gbit/s, 2.5 Gbit/s and 10 Gbit/s, depending on the PtP WDM client.

ITU-T Recommendation G.989.3 was completed in October 2015 and updated in November 2016.

PCC.I/RES. 287 (XXXI-17)⁴

ROADMAP PROPOSAL FOR FOLLOW-UP TO MOVE FORWARD WITH THE PROJECT TO SUPPORT DISASTER RESPONSE AND MITIGATION THROUGH TELECOMMUNICATIONS

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I)

CONSIDERING:

- a) That the OAS authorized the Secretariat of CITELE to develop a telecommunications project to donate telecommunications equipment for emergencies to certain islands in the Caribbean, primarily in the amateur radio sector, which is framed as a project associated with strategic initiatives of the OAS related to Telecommunications/ICT.
- b) That amateur radio services have proven to be very important in the fields of disaster warnings and mitigation, and in relief and coordination efforts by sending, receiving, and distributing alert messages, helping organize relief operations and permitting maintenance of communication links in the affected areas.
- c) That during the 30 Meeting of PCC.I, the Secretariat of CITELE submitted an information document on “Follow up of the activities carried out by CITELE and Next Steps: the Caribbean Interconnectivity Project” through document PCC.I-TIC/doc. 4349/17.
- d) That through Resolution PCC.I/RES. 269 (XXX-17) contained in document PCC.I-TIC/doc. 4380/17, the 30 Meeting of PCC.I created the Ad Hoc Group to coordinate strategic initiatives of the OAS related to Telecommunications/ICT.
- e) That telecommunications organisms ITU, COMTELCA, IARU, CTU, LACNIC, and ISOC have expressed an interest in being part of this initiative and expressed their support or the collaboration necessary to move forward in achieving this project.

RECOGNIZING:

- a) That emergency telecommunications play a critical role immediately after disasters, ensuring the adequate flow of vital information to the government, agencies and other humanitarian actors involved in rescue operations and assisting citizens.
- b) That this Ad Hoc Group, in coordination with the Secretariat of CITELE, should plan and coordinate activities, meetings, task schedules, and establish the steps to be taken to monitor and identify the necessary resources and funding sources, allied donors and organizations that have expressed an interest in moving forward with the project through a clear roadmap and the steps to be followed for its implementation.

⁴ CCP.I-TIC/doc. 4516/17

RESOLVES:

1. To adopt the roadmap proposal to move forward with the project to support disaster response and mitigation through telecommunications for the 2017-2018 period included in Annex 1.

ANNEX I TO RESOLUTION PCC.I/RES. 287 (XXXI-17)

ROADMAP PROPOSAL FOR FOLLOW-UP TO MOVE FORWARD WITH THE PROJECT TO SUPPORT DISASTER RESPONSE AND MITIGATION THROUGH TELECOMMUNICATIONS

INTRODUCTION

As a result of 30 Meeting of PCC.I, the Secretariat of CITEL submitted a comprehensive report on the initiatives submitted by the OAS Secretary for the Caribbean region. This report is contained in document CCP.I-TIC/doc. 4349/17⁵.

This report highlights the title of the project and its purpose, which was modified as a result of the brainstorming at two meetings held in 2016, where the project was defined as follows:

THE SG'S STRATEGIC INITIATIVE
Caribbean interconnectivity

PROJECT NAME
Support disaster response and mitigation through telecommunications

PARTY RESPONSIBLE FOR THE PROJECT AT THE OAS
Inter-American Telecommunication Commission (CITEL)

PURPOSE OF THE PROJECT AND EXPECTED RESULTS

Creation of a volunteer amateur radio network in the Caribbean to assist States when telecommunications infrastructure is significantly or completely destroyed by a disaster and only radiocommunication services can be used for relief operations.

II. ROADMAP PROPOSAL TO MOVE FORWARD WITH THE PROJECT

The purpose of this section is to present a roadmap to continue moving forward with the Ad Hoc Group's work to meet the goal: **“Strengthening of the volunteer amateur radio network operators in the Caribbean, to assist States when telecommunications infrastructure is significantly or completely destroyed by a disaster and only radiocommunication services can be used for relief operations.”**

⁵FOLLOW UP ON THE ACTIVITIES CARRIED OUT BY CITEL AND NEXT STEPS: THE CARIBBEAN INTERCONNECTIVITY PROJECT.

1. Meeting with ITU, COMTELCA, and CITEL

Purpose: To learn the scope and objectives of the ITU-COMTELCA project, the progress made by the work carried out in COMTELCA member countries, and the joint working partnerships with CITEL.

Date: July - August 2017

2. Meeting with CTU and the Ad Hoc Group's management team, including ITU and COMTELCA

Purpose: Validate the proposed roadmap

Date: August 2017

3. Survey of the situation of amateur radio operators in the Caribbean Region

Purpose: Complete a diagnosis of the situation of amateur radio operators in the Caribbean region, the existence of inter-country networks, needs, relations with agencies handling emergencies and disasters, a list of amateur radio operators in the region, and contact persons, among others.

This purpose includes preparing a questionnaire, defining the strategy and support networks the questionnaire will be sent to, processing the results, preparing the report, and presenting it to the Ad Hoc Group.

Date: August - December 2017

4. Survey of the Emergency Operations Centers (EOC) in the Caribbean region

Purpose: Complete a diagnosis of the situation of the EOCs in the Caribbean region, the status of the development of the national humanitarian network, relations between the EOCs, amateur radio associations and the humanitarian network since inter-institutional relations are a major factor in ensuring efficiency when responding to an emergency.

This purpose includes preparing a questionnaire, defining the strategy and support networks the questionnaire will be sent to, processing the results, preparing the report, and presenting it to the Ad Hoc Group.

Date: August - December 2017

4. Conformation of the amateur radio kits

Purpose: Go over the conformation of the equipment to be contained in the briefcase to be provided to the Caribbean countries, based on the ARRL package guide and advice provided by IARU emergency communications experts.

This activity includes defining the features of the radiocommunication equipment to be used in the band determined for radio amateurs the Caribbean region and any necessary equipment sent with the briefcase depending on the purpose of the project; determine the cost of the briefcase; identify potential sources of funding/donations to acquire the kits; prepare a sample letter to ask for collaboration and/or a donation; prepare the list of companies the letter will be sent to requesting donation of the equipment, and send letter.

Date: August - December 2017

5. Equipment custody policy

Purpose: Outline a policy to determine the responsibility assigned to managing the Kit by country, including the criteria for such allocation, and monitoring the equipment and its maintenance, among other things.

The project should establish the criteria to use and operate the Kits as well as the custody and responsibility assigned with respect to maintenance and use of the equipment. The project should also contain the band operation policies and uses. This project is expected to last a maximum of three months.

Date: October - November 2017

6. Socialization and coordination meeting to present the Project worked on within the framework of PCC.I with the results of the project worked on within the framework of PCC.II

Purpose: Harmonize the progress and results of both the PCC.I and PCC.II Ad Hoc Groups to prepare the Project's final report.

Date: January - February 2018

7. Strengthen the amateur radio network

Purpose: Identify the radio clubs interested in strengthening the network per country, and define their scope, responsibilities, and working methods.

Date: February - March 2018

8. Workshop to submit the project within the framework of the 32 Meeting of PCC.I

Purpose: Submit the project's final report preferably within the framework of a CTU meeting with the participation of the ITU and CITELE

Date: first quarter

PCC.I/RES. 288 (XXXI-17)⁶

TERMS OF REFERENCE OF THE AD HOC GROUP FOR THE IMPLEMENTATION OF ICTS AS TOOLS FOR THE EMPOWERMENT OF WOMEN

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/ Information and Communication Technologies (PCC.I),

⁶ CCP.I-TIC/doc. 4417/17 rev. 2

CONSIDERING:

- a) Resolution 70 (Rev. Busan, 2014) of the ITU Plenipotentiary Conference, “Mainstreaming a gender perspective in ITU and promotion of gender equality and the empowerment of women through information and communication technologies”;
- b) Resolution 55 (Rev. Dubai, 2014) of the World Telecommunication Development Conference (WTDC), “Mainstreaming a gender perspective for an inclusive and egalitarian society”;
- c) The role of ICTs in the implementation of the United Nations 2030 Agenda for Sustainable Development, and in particular the Sustainable Development Goal No. 5 “Achieve gender equality and empower all women and girls”.

RECOGNIZING:

- a) That by Resolution PCC.I/RES. 283 (XXX-17) the 30th Meeting of the PCC.I established the Ad Hoc Group for the implementation of ICTs as tools for the empowerment of women for the period 2017-2018;
- b) The United Nations 2030 Agenda for Sustainable Development, specifically Goal No. 5, promotes women in leadership positions, women participating in political decision-making roles, empowering women economically, ensuring a life free of violence, and enhancing women’s reproductive health and rights;
- c) The urgent need to close the gender wage gap by fostering the use of ICTs to empower women and girls in microenterprises and small-medium sized businesses owned and/or managed by women.

RESOLVES:

- 1) To adopt the terms of reference of the Ad Hoc Group for the implementation of ICTs as tools for the empowerment of women for the period 2017-2018 set out in Annex I.

ANNEX I TO RESOLUTION PCC.I/RES. 288 (XXXI-17)

Terms of Reference of the Ad Hoc Group for the Implementation of ICTs as Tools for the Empowerment of Women

1. Objectives:

- a. To build capacity and understanding within CITELE administrations and in the region on how to design innovative policies, programs and projects that empower women and girls through information and communication technologies (ICT), working closely with CITELE Associate Members, civil society organizations, the private sector and experts in the field of gender issues focusing on the following topics, but not limited to:

1. Policy: overarching gender-sensitive digital policy frameworks focusing on digital rights and accountability for women and girls online;
 2. Accessibility: enhance equal access to digital technologies for women and girls including affirmative actions when appropriate;
 3. Skills: empower women and girls with the necessary skills and education to become ICT creators and to enroll in STEM (Science, Technology, Engineering and Mathematics) fields of studies;
 4. Leadership: promote women and girls as ICT leaders, role models, decision-makers, and business entrepreneurs;
 5. Safe and Inclusive Online Spaces: develop mechanisms to support safe spaces online for women and girls and reduce online violence against women.
- b. Develop partnerships with regional organizations, United Nations agencies, the private sector and civil society organizations and experts to promote the empowerment of women and girls in the Americas region.
 - c. Promote the development of national initiatives that use ICTs as an instrument to prevent violence against women and girls.

2. Implementation:

- a. To design and deliver targeted workshops, seminars and/or capacity-building sessions with the collaboration and participation of CITEC Administrations, CITEC Associate Members, the private sector, civil society and academia experts.
- b. To provide relevant content on the role of ICTs to empower women and girls to the on-line repository of best practices, that will be set up by the Secretariat of CITEC.
- c. To convene meetings to exchange information, experiences and best-practices in the Americas region on the role of ICTs to empower women and girls and to strengthen a regional network.
- d. To enhance women's and girl's access in STEM careers and education (Science, Technology, Engineering and Mathematics) related trainings and occupations, as a key to establish an enabling environment for women's empowerment.
- e. To liaise, via the Executive Secretary of CITEC, with the OAS Inter-American Commission of Women (CIM) with the purpose of coordinating actions aimed at the empowerment of women and girls through the use of ICTs, in particular vulnerable and disadvantage groups.

3. Reporting

- a. To provide regular updates on its activities to the Chair of PCCI.

PCC.I/RES. 289 (XXXI-17)⁷

WORKSHOP TO EMPOWER WOMEN AND GIRLS THROUGH ICTs

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communications Technologies (PCC.I)

RECOGNIZING:

- a) The importance of advancing gender equality in the Americas and promoting equal rights for women and girls as the most effective way to reduce poverty and empower women economically;
- b) The United Nations 2030 Agenda for Sustainable Development, specifically Goal No. 5 “Achieve gender equality and empower all women and girls”, which promotes women in leadership positions, women participating in political decision-making roles, ensuring a life free of violence, and enhancing women’s reproductive health and rights;
- c) The urgent need to close the gender wage gap by fostering the use of ICTs to empower women and girls in microenterprises and small-medium sized businesses owned and/or managed by women;
- d) The need to enhance equal access to digital technologies for women and girls, and empower women and girls with the necessary skills and education to become ICT creators and to enroll in STEM (Science, Technology, Engineering and Mathematics) fields of studies.

RESOLVES:

- 1. To approve to conduct a workshop on the empowerment of women and girls through ICTs for a half day which will take place during sessions of the Ad Hoc Group within the framework of the 32nd Meeting of PCC.I in 2018.
- 2. To organize this workshop free of all costs for CITELE and subject to obtaining the necessary financial resources.
- 3. To appoint the Canada, as Chairman of the Ad Hoc Group, the main coordinator of the workshop, in close coordination with the Chairmanship of PCC.I, the host administration of the 32nd Meeting of PCC.I and the Executive Secretariat of CITELE.
- 4. To instruct the Ad Hoc Group to develop an agenda of the workshop in close collaboration with interested CITELE administrations, CITELE Associate Members, civil society organizations, the private sector, and academia experts in the field of gender issues.

⁷ CCP.I-TIC/doc. 4513/17 rev. 2

PCC.I/RES. 290 (XXXI-17)⁸

AGENDA, SITE AND DATE OF THE 32 MEETING OF PCC.I

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

RESOLVES:

1. To hold the 32 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies in Peru from May, 22 to 25, 2018.
2. To adopt the Draft Agenda for the 32 Meeting of PCC.I, annexed to this Resolution.

ANNEX TO RESOLUTION PCC.I/RES. 290 (XXXI-17)

DRAFT AGENDA

1. Approval of the agenda and calendar of activities.
2. Establishment of the Drafting Group for the Final Report.
3. Work Plan for PCC.I.
4. Working Group reports and meetings:
 - 4.1 Working Group on Policy and Regulation (WGPR)**
 - 4.1.1 Rapporteurship on protecting the rights of telecommunication service users
 - 4.1.2 Rapporteurship on Internet: ecosystem and international connectivity
 - 4.1.3 Rapporteurship on roaming
 - 4.1.4 Rapporteurship on fraud control, regulatory non-compliance practices in telecommunications and regional measures against the theft of mobile terminal devices
 - 4.1.5 Rapporteurship on economic aspects of telecommunications/ICTs services
 - 4.1.6 Rapporteurship on telecommunication service quality
 - 4.2 Working Group on Development (WGD)**
 - 4.2.1 Rapporteurship on disaster prevention, response and mitigation
 - 4.2.2 Rapporteurship on Broadband for universal access and social inclusion
 - 4.3.3 Rapporteurship on follow-up of regional initiatives
 - 4.3 Working Group on Deployment of Technologies and Services (WGDTS)**
 - 4.3.1 Rapporteurship on Standards, conformity and interoperability
 - 4.3.2 Rapporteurship on Infrastructure, connectivity and service deployment
 - 4.3.3 Rapporteurship on Cybersecurity, vulnerability assessment and critical infrastructure
 - 4.3.4 Rapporteurship on Telecommunication numbering, portability and addressing

⁸ CCP.I-TIC/doc. 4515/17 rev. 1

- 4.3.5 Rapporteurship on Technological innovation and trends
 - 4.4 Working Group for the Preparation and Follow-up of the WTSA, WCIT and WTDC (WGCONF)**
 - 4.5 Ad hoc Group for the implementation of ICTs as tools for the empowerment of women**
 - 4.6 Ad Hoc Group for the identification of work priorities, expected results, and possible improvements in the participation of associate members for the next PCC.I study period.**
 - 4.7 Ad Hoc Group to coordinate strategic initiatives of the OAS related to Telecommunications/ICT.**
- 5. Agenda, site and date of the 33 Meeting of PCC.I.
 - 6. Approval of the Final Report.
 - 7. Other business.

PCC.I/DEC. 270 (XXXI-17)⁹

PROPOSAL TO MODIFY DECISION PCC.I/DEC. 254 (XXIX-16)¹⁰ - REPORT OF CONSULTATIONS ABOUT THE PROCESSES OF EXCHANGE AND BLOCKING OF IMEIs BETWEEN COUNTRIES FOR MOBILE DEVICES REPORTED LOST OR STOLEN

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

DECIDES:

1. To consult with the Member States, the mobile operator association (GSMA), and other stakeholders, to assess the procedures used for the international exchange and blocking of mobile device identifiers reported as lost or stolen.
2. To request that the Member States and Associate Members contribute to documenting the reporting, international IMEI exchange and blocking procedures through databases and blocking devices used for that purpose, as well as their features, and their times, and operational aspects including:
 1. Obtaining the IMEIs related to reports of theft or loss by service users.
 2. Uploading reported IMEIs to international sharing databases.
 3. Downloading the IMEIs from the international sharing of by operators from other countries.
 4. Blocking in the EIR of IMEIs reported in the same country and coming from reports in other countries to restrict access of stolen or lost equipment to mobile networks.
 5. Exchange times.
 6. Data fields included in the exchange.
 7. Age of IMEI reports to be uploaded/downloaded in exchange databases when countries or operators enter the exchange.
 8. Querying methods to consult the international exchange database.
 9. Handling of duplicate IMEIs (inclusion and removal criteria).
 10. Including reasons for blocking other than loss or theft.
 11. Criteria to select the countries and operators with which to implement the exchange and blocking.
 12. Managing the volume of IMEIs to be blocked versus the installed capacity in the EIR.
 13. Total or selective blocking of data downloaded from the international sharing database (all or only those with activity in the mobile networks and that register a report in another country).
 14. Causes of non-exchange or non-application of IMEI blocking reported in other countries.
3. To instruct the Rapporteur on fraud control, regulatory non-compliance practices in telecommunications and regional measures against the theft of mobile terminal devices to submit the results of the consultation and a document with recommendations for approval by Permanent Consultative Committee I, during the fourth quarter of 2017.

⁹ CCP.I-TIC/doc. 4481/17 rev. 1 cor. 1

¹⁰ CCP.I-TIC/doc. 4112/16 rev.2

4. To instruct the Secretariat of CITEL to forward this decision to the Member States, Associate Members, GSM Association (GSMA), and other stakeholders.
5. Revoked the decision PCC.I/DEC. 254 (XXIX-16)

PCC.I/DEC. 271 (XXXI-17)¹¹

UPDATE STUDY “REGULATORY LEGAL FRAMEWORK AND RESEARCH ON THE BEHAVIOR OF CONSUMERS OF TELECOMMUNICATIONS SERVICES IN LATIN AMERICA”

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I)

DECIDES:

1. To instruct the Secretariat of CITEL to collaborate and carry out the necessary coordination with the International Telecommunication Union (ITU) to update the study “**REGULATORY LEGAL FRAMEWORK AND RESEARCH ON THE BEHAVIOR OF CONSUMERS OF TELECOMMUNICATIONS SERVICES IN LATIN AMERICA**” considering that the update should include new findings, an update of the contextual and sector data, a methodological review, and an update of literary facts related to consumer behavior.

PCC.I/DEC. 272 (XXXI-17)¹²

QUESTIONNAIRE ON PROTECTING USERS OF DIGITAL FINANCIAL SERVICES

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

DECIDES:

1. To instruct the Executive Secretariat of CITEL to forward the report drafted by the Administration of Peru containing the results of the “Questionnaire on Protecting Users of Digital Financial Services” to the Working Group on Consumer Experience and Protection of the ITU’s Focus Group on Digital Financial Services.

¹¹ CCP.I-TIC/doc. 4517/17 rev. 1

¹² CCP.I-TIC/doc. 4514/17

2. To attach the answers to the above-mentioned questionnaire received from the member administrations of PCC.I to the above-mentioned report for their information and all relevant purposes.

PCC.I/DEC. 273 (XXXI-17)¹³

AMENDMENTS TO TECHNICAL FOLDER “POLICIES FOR THE PROMOTION OF THE DEPLOYMENT AND CONSTRUCTION OF TELECOMMUNICATIONS INFRASTRUCTURE”

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I);

DECIDES:

1. To amend the index of Technical Folder “Policies for the Promotion of the Deployment and Construction of Telecommunications Infrastructure” approved by Resolution PCC.I / RES. 236 (XXVI) and amended by Decision PCC.I / DEC. 239 (XXVII) to remain as indicated in Annex I.
2. To appoint the new Coordinator of Technical Folder “Policies for the Promotion of the Deployment and Construction of Telecommunications Infrastructure” approved by Resolution PCC.I/RES. 236 (XXVI), represented by Mr. Wilmer Caról Azurza Neyra, a professional of the Ministry of Transport and Communications, with email address wazurza@mtc.gob.pe, who shall be tasked with compiling the information provided by Member States, Associate Members, and international and/or multilateral entities and update such on a permanent basis.

ANNEX I TO DECISION PCC.I/DEC. 273 (XXXI-17)

INDEX OF TECHNICAL FOLDER “POLICIES FOR THE PROMOTION OF THE DEPLOYMENT AND CONSTRUCTION OF TELECOMMUNICATIONS INFRASTRUCTURE”

1. Information on projects, policies, and regulatory measures (norms and legal provisions in general) related to favoring the deployment and construction of telecommunications infrastructure.
2. Information on studies or consulting services provided on the subject matter, by agencies or government agencies of Member States and Associate Members.
3. Information on studies or consulting services provided on the subject matter, by international and/or multilateral entities.
4. Information on cases regarding the practical implementation of projects, policies and regulatory measures in each Member State, describing:

¹³ CCP.I-TIC/doc. 4487/17 cor. 1

- a) The problems identified.
- b) Actions adopted taken or to be adopted to address the problems identified.

5. Lessons learned.

PCC.I/DEC. 274 (XXXI-17)14

QUESTIONNAIRE ON THE IMPLEMENTATION OF THE RECOMMENDATION ITU-D 19 IN THE AMERICAS REGION

The 31 Meeting of the Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

DECIDES:

1. To request Member States to carry out the Questionnaire attached in the Annex of this Decision, to collect information on the instrumentation of the Recommendation ITU-D 19, concerning telecommunications in rural and distant areas in the Americas Region, as a follow-up to Resolution PCC.I/RES.268 (XXVIII-16).
2. To task the Rapporteur on Broadband for universal access and social inclusion, as part of the ongoing implementation of Resolution PCC.I/RES.268 (XXVIII-16) on the Implementation of the Recommendation ITU-D 19 for the Americas Region, with the creation of a report with the results from the questionnaire; and for presenting the results of this report to the 32nd Meeting of the Committee.
3. To designate Karla Velasco Ramos karlavelascor@gmail.com from the delegation of Mexico as the coordinator of the effort to compile the information referenced in this draft decision.
4. To task the Secretariat with distributing the attached questionnaire to Member States during the month of September 2017, establishing January 2018 as the deadline for receipt of the information.

ANNEX TO DECISION PCC.I/DEC. 274 (XXXI-17)

QUESTIONNAIRE ON THE IMPLEMENTATION OF THE RECOMMENDATION ITU-D 19 IN THE AMERICAS REGION

Country:
Name of the person answering the survey:
Position/Organization:
Contact E-mail/Phone number:

¹⁴ CCP.I-TIC/doc. 4466/17

1. Which mechanisms has your Administration implemented for the provision of telecommunication services/ICTs in rural and remote unattended or underserved areas?
2. Based on the Recommendation ITU-D 19, has your Administration considered specific licensing mechanisms that facilitate the deployment of broadband services in rural and remote areas?
3. What type of spectrum licenses does your Country provide?
4. Does your Country have licenses to attend specifically underserved areas, such as rural operator license, social license, small operator license, community operator license, etc.?
5. If yes, do specific dispositions exist in terms of spectrum planning or spectrum assignment for these types of operators?
6. Regarding isolated and underserved areas, does your Administration offers incentives that include lower rates of payment for the use of spectrum?
7. Is there a specific license for the provision of services in remote or underserved areas in your Country?
8. Based on the Recommendation ITU-D 19, has your country shown progress or taken any action in the instrumentation of regulation to integrate small or non-profit operators to provide broadband connectivity to users in rural and remote areas? If yes, please describe the case and indicate sources for further information.
9. If not, does your Country have plans to implement any of these measures?
10. Based on the Recommendation ITU-D 19, has your Country considered or implemented regulatory measures to allow small, non-profit or community operators access to spectrum resources and backbone networks? If yes, please describe the case and indicate sources for further information.
11. Does your Country offer support for local entrepreneurs that are implementing sustainable business models for the development of rural communications, either through the Universal Service Fund or other initiatives?
12. Concerning the execution of the Resolution 268 (XXVIII-16), issued in the 28th Meeting of the Permanent Consultative Committee I of CITEL (PCC.I), in San Salvador, El Salvador; has your Country published any studies or statistical information about small and non-profit community operators in rural and remote areas?

PCC.I/DEC. 275 (XXXI-17)¹⁵

CREATE A SPACE ON THE CITEL VIRTUAL COMMUNITY FOR 5G-RELATED CONTRIBUTIONS SUBMITTED TO THE RAPPORTEURSHIP ON TECHNOLOGY INNOVATION AND TRENDS

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

DECIDES:

1. To request the CITEI Secretariat to create a 5G-related space on the CITEI Virtual Community, which will support the needs of the Rapporteurship on Technology Innovation and Trends. In recognition of CITEI Member States' interest in 5G-related technologies and in response to requests from CITEI Members, the 5G space on the CITEI Virtual Community will act as a platform for the Secretariat to post and regularly update the list of 5G-related contributions to the Rapporteurship on Technology Innovation and Trends. The list will include hyperlinks to the contributions to enable CITEI Members to easily access the information.

PCC.I/DEC. 276 (XXXI-17)¹⁶

REQUEST THE ADMINISTRATIONS FOR INFORMATION TO UPDATE THE CITEI'S TELECOMMUNICATIONS INFORMATION SYSTEM

The 31 Meeting of Permanent Consultative Committee I: Telecommunications/Information and Communication Technologies (PCC.I),

DECIDES:

1. To request the administrations to send information about their country's markets, laws, and reforms, and report telecommunications data to update the CITEI information system that aims to contribute to studies for future analysis of the countries currently deploying or that intend to deploy telecommunications infrastructure and/or improvements.

2. To request the administrations to send the information via email to the Secretariat of CITEI (citel@oas.org) by September 30, 2017, at the latest.

3. To request the Secretariat of CITEI to update the information system database as it receives information from the administrations. Such information shall be available on the CITEI website at <https://cdn.rawgit.com/CITELTOOLS/CITELTIC/f4220059/principal/index.html>

¹⁵ CCP.I-TIC/doc. 4504/17 rev. 2

¹⁶ CCP.I-TIC/doc. 4489/17

VI. LIST OF BASIC DOCUMENTS

Summary Minutes of the Inaugural Session and the First Plenary Session:	CCP.I-TIC/doc. 4507/17 rev. 1
Summary Minutes of the Second Plenary Session:	CCP.I-TIC/doc. 4528/17
Summary Minutes of the Third Plenary Session:	CCP.I-TIC/doc. 4542/17
List of Documents:	CCP.I-TIC/doc. 4387/17 rev.3
List of Participants:	CCP.I-TIC/doc. 4388/17 rev.1
Final Report for the Meeting:	CCP.I-TIC/doc. 4543/17
Report of the Working Group on Policy and Regulation (WGPR)	CCP.I-TIC/doc. 4521/17 rev. 1
Report of the Working Group on Development (WGD)	CCP.I-TIC/doc. 4520/17
Report of the Working Group on Deployment of Technologies and Services (WGDTS)	CCP.I-TIC/doc. 4511/17
Report of the Working Group for the Preparation and Follow-up of the WTSA, WCIT and WTDC (WGCONF)	N/A
