

**IV MEETING OF THE PERMANENT
CONSULTIVE COMMITTEE III:
RADIOCOMMUNICATIONS
18-22 March, 1996
Asunción, Paraguay**

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FINAL REPORT

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FINAL REPORT

FOURTH MEETING OF THE PERMANENT CONSULTATIVE COMMITTEE III: RADIOCOMMUNICATIONS, PCC.III

The Fourth meeting of the Permanent Consultative Committee III: Radiocommunications (PCC.III) was held in the city of Asunción , from March 18 to 22, 1996.

I. AGENDA

1. Approval of the Agenda
2. Opening remarks
3. Appointment of the Final Report Drafting Group
4. Comments on possible amendments to the Statutes and Regulations of CITEL
5. Appointment of the Vice President of the Working Group in charge of the Preparation of the of CITEL for World and Regional Radiocommunication Conferences, and designation of the President of the Group, in compliance with Resolutions PCC.III/RES.2(I-94) and PCC.III/RES.3(I-94).
6. Meeting and report of the Working Group Coordinators regarding the following items:
 - 6.1 Regional Data Base regarding Radio Spectrum use (with a view to foster its common and harmonious use, including sharing)
 - 6.2 Low Earth Orbit Satellites below 1 GHz
 - 6.3 Networks and Services Using Very Small Aperture Terminals (VSAT)
 - 6.4 Personal Communications Services (PCS) and Similar Systems (including cellular roaming in the Americas)
 - 6.5 Amateur Radio Service
 - 6.6 World Radiocommunication Conference 1995/1997
 - 6.7 Mobile Satellite Services and Low Earth Orbit Satellites above 1 GHz
 - 6.8 Joint tasks on legal matters (PCC.I-II-III)
 - 6.9 Coordination of Standards for Radiocommunications Systems/Services and Certification (with PCC.I)
7. Geostationary Satellite Orbit Systems
8. Non-GSO Fixed Satellite Systems
9. Implementation of the GMDSS (Global Maritime Distress & Safety System) including the participating regional mobile satellite service systems in the 1.5/1.6 GHz band
10. Human resources
11. Task coordination with PCC.I and PCC.II (on aspects such as PCS, VSATs, Radio Broadcasting, etc.)
12. Harmonization activities of PCC.I and III to increase the efficiency of the standard coordination on wireless networks.
13. Agenda, venue and date for the Fifth PCC.III Meeting
14. Other related topics
15. Approval of the Fourth Meeting Report.

II. MEETING AUTHORITIES

Chairperson:	Mr.Luis Manuel Brown Hernández
Vicechairman:	Mr.Joao Carlos Fagundes Albernaz
Chairman of Final Report Drafting Group:	Mr.Vidal Torres
Secretary:	Mr.Roberto Blois Montes de Souza, Executive Secretary of CITEL,OAS

III. RESOLUTIONS

PCC.III/RES 28 (IV-96)

MANDATES FOR PCC.I AND PCC.III

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

CONSIDERING:

That there exists ambiguity for the mandates from PCC.I and from PCC.III formulated in RES 8 (I-94);

That such ambiguity causes overlapping of functions in the Work Groups established in PCC.I and in PCC.III; and

That it is convenient to make changes to the present mandates,

RESOLVES:

To Commend the Chairman of PCC.III to submit in the next COM/CITEL meeting the proposals for modifications in the mandates of PCC.I and PCC.III, according to the following details:

Permanent Consultative Committee I:

Mandate:

To promote and watch over the integration and strengthening of Networks and Telecommunication Public Services operating in the American States, taking into account the need for modernization of networks and for promotion of universal basic telephone services and for expanding availability to the specialized service public, promoting the application of international standards based on the appropriate ITU Regulations.

Permanent Consultative Committee III:**Mandate:**

To promote the harmonization of Radiocommunication Services, taking special account of the need for reducing to a minimum the factors that generate harmful interferences in the functioning and operation of networks and services, for fostering the integration between networks of the same service or of similar Radiocommunication services, and for harmonizing and making more efficient use of the radio frequency spectrum as well as promoting the application of compatible technologies that have been standardized at the global level by the ITU.

To promote the use of modern technologies and the application of the standards and the International Radio Regulations of the ITU.

INSTRUCTS:

The Executive Secretary to submit to the Chairman of PCC.I the proposal for modification of the mandate of PCC.I.

PCC.III/RES 29(IV-96)**ESTABLISHMENT OF A RADIOCOMMUNICATIONS EQUIPMENT RAPPORTEUR TO THE PCC.I AD HOC WORKING GROUP ON CERTIFICATION PROCESSES**

The Fourth meeting of the Permanent Consultative Committee III Radiocommunications,

NOTING:

That the 34 Heads of Government at the Miami Summit of the Americas agreed to a Plan of Action which included a mandate for CITELE to "promote greater consistency of certification processes of telecommunications equipment," as noted in COM/CITELE RES. 8 (II-94);

That COM/CITELE responded to the Plan of Action by adopting COM/CITELE RES.8(II-94); and,

That PCC.I RES.8(II-95) established an ad-hoc Working Group on Certification Processes (WGCP) in February 1995.

CONSIDERING:

That PCC.III is responsible for matters related to radiocommunications services/systems;

That PCC.III/RES.8(II-95), adopted in March 1995, states that PCC.III will work in "coordination with

PCC.I for purposes of avoiding duplication and identifying issues of common interest concerning equipment certification;"

That PCC.I RES.8 (II- 95) directs the PCC.I WGCP to "focus on areas related to administrative processes governing the processing of applications for certification, and will not concern itself with activities of coordinating or setting technical standards;" and

That the administrative certifications processes for telephone network equipment and radiocommunications equipment are likely to be very similar, given the limited resources of CITEL, and given the importance fulfilling in a prompt and effective manner the Summit of the Americas mandate.

RESOLVES:

1. That PCC.III will coordinate with the PCC.I WGCP through a Radiocommunications Equipment Rapporteur in order to avoid duplication of CITEL efforts on telecommunications equipment certification issues. The Radiocommunications Equipment Rapporteur will work through the Chairman of the PCC.I WGCP, and should attend appropriate meetings of the PCC.I WGCP;

2. PCC.III will appoint Mr. José Vivanco Arias from Ecuador to be the Radiocommunications Equipment Rapporteur (RER).

3. That, the functions of the RER will be to:

- Provide information on an ongoing basis to PCC.III on the activities of the PCC.I WGCP;
- Present relevant information and resolutions from PCC.III to the PCC.I WGCP;
- Work with the PCC.I WGCP to determine whether certification processes for radiocommunications equipment are different than those applicable to other types of telecommunications equipment;
- Work with the PCC.I WGCP to promote "greater consistency of certification processes," and serve as a contact point for any questions the PCC.I WGCP may have on certification process that pertain to radiocommunications equipment;
- Recommend whether PCC.III should take action or pass resolutions in response to the work being conducted by the PCC.I WGCP;
- Encourage, whenever deemed appropriate by PCC.III, that the PCC.I WGCP give special attention in its work program to certification processes for certain radiocommunications equipment. At this stage, the RER will encourage the PCC.I WGCP to give special consideration to certifications processes for the following radiocommunications equipment: cellular, public and private two-way radio systems, paging, advanced messaging, mobile earth station hand held terminals, satellite earth stations for special events, very small aperture terminals (VSATs), data only mobile earth stations, communications equipment for disaster relief, and equipment used by visiting radio amateurs

operating under the International Amateur Radio Permit or other agreements.

PCC.III/RES.30 (IV-96)

HUMAN RESOURCE DEVELOPMENT

The Fourth Meeting of the Permanent Consultative Committee III: Radiocommunications,

HAVING SEEN:

That COM/CITEL through COM/CITEL RES.19 (III-95) resolved:

1. To promote the holding of work meetings between the CITEL Coordination of Human Resources and the persons in charge of the Regional Centers, which will preferably will be held simultaneously with the working sessions of the COM/CITEL;
2. To request the Coordination of the working group to prepare the agenda of the First Meeting that will be scheduled for the year 1996 and can show the result of it at the next COM/CITEL meeting;

That, if the interpretation of the above resolves is in the sense that the agenda should be presented at the next COM/CITEL meeting and after its approval the meeting with the Regional Centers should be held, it implies that such meeting will be held during the year 1997;

The importance of the activities that the Regional Centers should carry out and the convenience of establishing criteria of efficient links between these and the Coordination of Regional Centers, as soon as possible,

CONSIDERING:

The convenience in revising such interpretations and adopting measures that will permit the mentioned meeting to be initiated during 1996, and at the same time fulfill the applicable resolutions and

RESOLVES:

1. To consult the chairpersons of the PCC.I and the PCC.II on their opinion on the observance of the COM/CITEL RES. 19 (III-95) so that, in its case, the proposal of the Coordination of the Regional Centers of the CITEL be jointly supported, so that the First Meeting of the CITEL coordination with the Regional Centers and the persons in charge of the Centers be held during the next meeting of the PCC.III in August 1996.

2. To support the proposal of the agenda that is put forward below for the works of the First Meeting of the Coordination of the CITEL with the Regional Centers and the people in charge of the Centers.

AGENDA

1. Revision and regularization of the situation of the Regional Centers in respect to its recognition by CITEL.
2. Consideration for the creation of a guide of proceedings for the operation of Regional Centers, in the framework of their relations with the Coordination of the Regional Centers and CITEL.
3. Formulate an integral CITEL program for training.
4. Links, distribution and promotion of activities of the Regional Centers.
5. Support mechanism for the assistance to exchange courses.
6. Specific studies and Projects.
7. Program for meetings for the Regional Centers.
8. Other matters of interest.

PCC.III/RES.31 (IV-96)

APPROVAL OF THE WRC-97 AGENDA BY THE ITU COUNCIL

The Fourth Meeting of Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

That Resolution 718 of the Final Acts of the 1995 ITU World Radiocommunication Conference outlines the agenda for the 1997 World Radiocommunication Conference;

That WRC-95 identified a large number of issues requiring further examination by WRC-97; and

That COM/CITEL RES.17 (III.95) highlighted the concerns of the CITEL Member States regarding the agenda of the 1997 WRC,

RECOGNIZING:

That Article 7 of the ITU Convention states: "the final Agenda shall be established by the Council preferably two years before the Conference with the concurrence of a majority of the members of the Union";

That, despite the desirability of enhancing the manageability of the workload for WRC-97 by deferring the consideration of several agenda items, the Council would have difficulty in identifying such items, given the diverse priorities of the members of the Union,

RESOLVES:

1. That the Member States of CITEL, through the Region A elected representatives on the ITU Council, advise the Union of their collective concerns that future WRC agendas reflect the need to keep such agendas manageable and within the resource limitations of both the membership and the ITU itself;

2. That, notwithstanding these concerns, the Member States of CITEL recommended that the WRC-97 agenda, as adopted by the WRC-95, be approved without amendments.

PCC.III/RES.32 (IV-96)**AGENDA, VENUE AND DATE OF THE FIFTH MEETING OF PCC.III**

The Fourth Meeting of Permanent Consultative Committee III: Radiocommunications,

RESOLVES:

1. That the fifth meeting of PCC:III will be held in Brazil, 12-16 August 1996;
2. To approve the draft agenda for the fifth meeting of PCC.III annexed to this resolution.

ANNEX**DRAFT AGENDA**

1. Approval of the Agenda
2. Opening remarks
3. Appointment of the Final Report Drafting Group
4. Comments on possible amendments to the Statutes and Regulations of CITEL
5. Meeting and report of the Working Group Coordinators regarding the following items:
 - 5.1 Regional Data Base regarding Radio Spectrum use (with a view to foster its common and harmonious use, including sharing)
 - 5.2 Low Earth Orbit Satellites below 1 GHz
 - 5.3 Networks and Services Using Very Small Aperture Terminals (VSAT)
 - 5.4 Personal Communications Services (PCS) and Similar Systems (Fixed Wireless Access - FWA - and its co-existence with PCS)
 - 5.5 Amateur Radio Service
 - 5.6 World Radiocommunication Conference 1997

- 5.7 Mobile Satellite Services and Low Earth Orbit Satellites above 1 GHz
- 5.8 Joint tasks on legal matters (PCC.I, PCC.II and PCC.III)
- 5.9 Coordination of Standards for Radiocommunications Systems/Services and Certification (with PCC.I)
- 6. Geostationary Satellite Orbit Systems
- 7. Non-GSO Fixed Satellite Systems
- 8. Implementation of the GMDSS (Global Maritime Distress & Safety System) including the participating regional mobile satellite service systems in the 1.5/1.6 GHz band
- 9. Discussions on the Senior Telecommunication Officials Meeting according to the Mandate of the Summit of the Americas.
- 10. Discussions on the Telecommunication Policy Forum.
- 11. Human resources
- 12. Task coordination with PCC.I and PCC.II (on aspects such as PCS, VSATs, Radio Broadcasting, etc.)
- 13. Harmonization activities of PCC.I and III to increase the efficiency of the standard coordination on wireless networks.
- 14. Agenda, venue and date for the Sixth PCC.III Meeting
- 15. Other related topics
- 16. Approval of the Fifth Meeting Report.

PCC.III/RES.33 (IV-96)

**Method to Harmonize Activities of PCC.I and PCC.III for
Coordinating the Standardization of Wireless Networks**

The Fourth Meeting of The Permanent Consultative Committee III: Radiocommunications,

HAVING SEEN:

The mandate given by COM/CITEL in its Resolution RES.18 (III-95) to convene a joint meeting of the Working Groups involved in the harmonization of Wireless Services and Systems Standards to determine how best to coordinate work activities;

CONSIDERING:

That the PCC.III meeting in Mexico in August 1995 initiated standards coordination liaison activity with PCC.I;

That discussions on coordination activities between PCC.I and PCC.III were held during the PCC.I Meeting in Washington D.C. in September 1995; and

That two Joint Sessions were held in Asuncion in March 1996 between representatives of both PCC.I and PCC.III, where a common understanding was reached on the method to harmonize joint work for coordinating the standardization of wireless services and systems,

RESOLVES:

1. That the results of the Joint Meeting in Asuncion in March 1996 and the common understanding reached should be implemented as soon as possible by the Chairman of PCC.III (the common understanding is attached in Annex A).

2. Appoint to Mr. Javier Camargo from Mexico to be responsible for coordinating the overall work activity within PCC.III identified in Annex A, and serve as the principal liaison contact person with PCC.I on matters of joint activity.

REQUESTS:

That the Chairman of PCC.III consult with the Chairman of PCC.I for the purpose of implementing the common understanding as soon as possible.

ANNEX A

IV. RECOMMENDATIONS

PCC.III/REC.14 (IV-96)

RELATED TO THE USE OF PCS TERMINALS WITH DUAL BAND

The Fourth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

That it has been established during the Summit of the Americas that CITELE promote the use of New Technologies, the interoperability within networks, and the effective use of spectrum;

That the analog AMPS standard has been selected by the majority of countries from the Region to offer cellular service; and

That traffic of visitor customers roaming within countries of the Region is increasing,

RECOGNIZING:

There is technical capability that allow the interoperabilities between different technologies, such as smart cards or multimode terminals, etc.;

That for most of the countries of the Americas the installation and operation of the new Personal Communication Services (PCS) will still take a few years,

RECOMMENDS:

That whenever possible, the new technologies to be used in the Region in order to offer Personal Communication Services (PCS) should be compatible with the existing systems to facilitate roaming,

URGES:

The Administrations to promote the interoperability with the existing standards (e.g. IS-41 for AMPS and E-212 of the ITU for identification of the mobile units) with other new standards.

PCC.III/REC.15 (IV-96)

GUIDELINES FOR THE USE OF "ASSOCIATE MEMBER" FUNDS

The Fourth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

The Resolution of COM/CITEL RES.13 (III-95) Regarding Guidelines for the Use of "Associate Member" Funds;

The need for the Chairman of PCC.III and the Executive Secretary of CITEL to seek adoption of guidelines to administer the Associate Member fund;

That the guidelines to administer this fund should be simple, transparent and easy to apply; and

That the Chairman of PCC.III would be responsible for applying the guidelines in consultation with the Executive Secretary of CITEL.

NOTING:

That Article 84 of the CITEL Regulations provides that the Associate Members shall share in the costs of operation of the PCC in which they participate by voluntarily choosing a contributory level.

RECOMMENDS:

That the following guidelines be applied by the Chairman of PCC.III in consultation with the Executive Secretary of CITEL to achieve a procedure for administering the funds contributed by Associate Members;

That these funds should be used to support four categories of current activity within PCC.III;

<u>Activity</u>	<u>Annual Percentage Guideline (*)</u>
1. Plenaries	30%
2. Working Group Meetings (**)	35%
3. Additional Working Group meetings to advance the priorities of the Summit of the Americas	20%

4. Additional days for Plenaries and/or Working Group meetings to advance the priorities of the Summit of the Americas 15%

That the Chairman of PCC.III should consult with the Executive Secretary of CITEL to estimate the annual budget requirements for the activities to be funded from the Associate Mmembers fund.

That the Chairman of PCC.III should inform the Executive Secretary of CITEL, in writing, of the amount of funding required as soon as possible, but not later than 30 days before the date of the activity requiring use of these funds.

That the activities to be funded and the annual percentage guideline should be reviewed on an annual basis by PCC.III.

That the Executive Secretary of CITEL should distribute final guidelines after further consultation with the Chairman of each PCC with the objective of having common procedures and guidelines where appropriate.

INSTRUCTS:

The Executive Secretary to submit in consultation with the Chairman of PCC.III, a document before the next meeting, covering the subjects of the Resolution COM/CITEL RES.13 (III-95).

(*) This is the percentage of the total annual fund available that normally would be applied to the activity; however the Chairman should exercise flexibility and not apply the percentages in a rigid manner; also any funds remaining can be carried forward to the next year.

(**) "Ad hoc Group" as opposed to "Working Group" meetings, that are not associated with plenaries, should not be eligible for these funds.

PCC.III/REC.16 (IV-96)

**ACTIVITIES OF THE ITU RELATED TO WORLDWIDE MOBILE SATELLITE SYSTEMS
AND MANUAL/PORTABLE TERMINALS FOR MOBILE EARTH STATIONS**

The Fourth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING THAT:

Various Global Mobile Satellite systems are expected to commence operating around the end of the 1990's;

These Global Mobile Satellite Systems can enhance the telecommunications capabilities of CITEC countries;

In wireless networks, as in all networks, there are many pieces that must work together to ensure seamless communications;

The recognition of minimal technical characteristics for Mobile Earth Station handhelds/portable (MES) operating with global MSS systems could facilitate the introduction and approval of the MES terminals within the region;

The ITU-R is addressing the issue of global MES terminal type acceptance and these studies should be completed by 1997;

The PCC.III created two Working Groups dealing with MSS services with the objective of facilitating the use by CITEC Member Countries of the MSS services;

The Miami Summit called on CITEC to "promote greater consistency of certification processes of telecommunication equipments";

The PCC.I established an ad-hoc Working Group on certification process (WGCP);

It is indispensable to allow worldwide roaming of handsets/portable terminals in order to be able to provide a truly capable service to all users,

RECOMMENDS:

To take into account and make an effort to participate in the ITU activities regarding Global Mobile Satellite Systems and their associated Mobile Earth Station handheld/portable terminals within their domestic

telecommunications/MSS policies with the objective to jointly contribute to establishing global communication and, in particular a greater regional integration.

RESOLVES:

To maintain an appropriate exchange of information regarding this subject with the PCC.I-WGCP and provide it with information on an on going basis.

PCC.III/REC 17 (IV-96)

**ACTIVITIES OF THE ITU RELATED TO LOW ORBIT FIXED SATELLITE SERVICES ON A
WORLDWIDE BASIS**

The Fourth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

That WRC-95 facilitated the use of the frequency bands allocated to the Fixed Satellite Service for the operation of Low Earth Orbital Systems;

That these systems increase the infrastructure capacity of those CITELE member countries authorizing the operation of these systems within their territories;

That these systems are a mean of providing telecommunication coverage to rural and remote zones;

RECOMMEND:

That CITELE Member Countries, when establishing their international policies they consider the results of their related ITU activities, including the World Telecommunication Policy Forum.

V. DECISIONS

PCC.III/DEC.5 (IV-96)

The Fourth Meeting of the Permanent Consultative Committee III decided that the Executive Secretary addresses the pertinent communication to the CITELE member countries in order that they double their efforts to send as soon as possible, the information concerning utilization of the radioelectric spectrum in the 960 to 2500 MHz range, pursuant with the guidelines agreed in the III Meeting of the PCC.III, with the aim of ensuring the timely development of the regional data base.

It was also decided that the Executive Secretary establish the appropriate contacts with the ITU Regional Office to coordinate the introduction at the next PCC.III meeting of an action plan for the implementation of the said regional data base.

PCC.III/DEC.6 (IV-96)

The Fourth Meeting of the Permanent Consultative Committee III decided that the Executive Secretary sends the Preliminary Report from the Work Group on Low Earth Orbit Satellite Systems below 1 GHz, to the member countries, in order for them to perform the additions or corrections that they deem pertinent.

PCC.III/DEC.7 (IV-96)

The Fourth Meeting of Permanent Consultative Committee III decided to instruct the Executive Secretary to distribute Document PCC.III-296/96 "Land Mobile Handbook (including Wireless Access)" plus the Draft Recommendations in Annexes I and II to all members of the PCC.III, requesting that they send their comments to the Chairman of the PCS Working Group regarding the text of the draft Recommendations, and be prepared at the August meeting of PCC.III to accept these draft Recommendations or propose amendments, or propose additional bands for harmonizing Fixed Wireless Access (FWA).

ANNEX I

DRAFT RECOMMENDATION PCC-III/REC.

**IDENTIFICATION OF SPECTRUM FOR FIXED WIRELESS ACCESS
SYSTEMS IN THE AMERICAS**

The Fourth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

That Recommendation PCC.III/REC.10(III-95) on the identification of spectrum for Fixed Wireless Access (FWA) requested contributions on this topic;

That Document PCC.III-295/96, an input contribution that was received and discussed at the Fourth Meeting of PCC.III, proposed a draft Recommendation on Fixed Wireless Access in the Americas Operating in the 3.4 - 3.7 GHz Band;

That Fourth Meeting of PCC.III identified the following issues on FWA:
the need to have multiple frequency bands for FWA:

- the need for each country to understand its FWA requirements in order to provide service in that country;
- the need to consider the applicability of systems based on standardized radio interfaces and other systems based on proprietary radio interface technologies;
- the desirability of countries of the region to adopt solutions that favor economies of scale.

That the ITU-R is developing a "Land Mobile Handbook (including Wireless Access)" addressing FWA issues and providing technical and economic considerations on FWA, and that a draft version is available (Document PCC.III-296/96);

That the cellular services operate in the 824-849/869-894 MHz band in most CITELE member countries;

That the PCS operating band (1850 - 1990 MHz) for the Americas has been designated in PCC.III/REC.12(III-95) and that PCC.III/REC.11(III-95) identifies the PCS sub-bands A-F; and

That the 2 - 3 GHz band has been identified for multiple other applications and thus should be avoided for FWA harmonization,

RECOMMENDS:

1. That the 824-849 / 869-894 MHz cellular band and the 1850 - 1990 MHz PCS band be identified on a co-primary basis for FWA and mobile.
2. That for countries which choose to implement FWA in the 1850-1990 MHz PCS band it may be desirable to dedicate a sub-band of the 1850 - 1990 MHz PCS band exclusively for FWA, for example the sub-bands E (1885 - 1890 / 1965 - 1970 MHz) and F (1890 - 1895 / 1970 - 1975 MHz).
3. That for those countries which choose to implement FWA in all or part of the 3.4 - 3.7 GHz band do so in accordance with the 50 MHz sub-band structure as described in proposed draft Recommendation "Fixed Wireless Access in the Americas Operating in the 3.4 - 3.7 GHz Band" .

ANNEX II

DRAFT RECOMMENDATION PCC-III/REC.

**FIXED WIRELESS ACCESS IN THE AMERICAS OPERATING
IN THE 3.4 - 3.7 GHz BAND**

The Fifth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

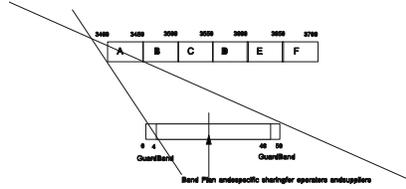
That wireless technologies represent an opportunity for a major improvement in Fixed Wireless Access (FWA) voice and data services for individuals or businesses which would be integrated into a variety of competing access networks;

That fixed wireless access is an important application of radio technologies, with significant advantages in many cases over wireline access alternatives;

That to facilitate the deployment of fixed wireless access systems it is desirable that suitable radio spectrum bands be identified for this application;

That various technologies for fixed wireless access are being introduced in the marketplace in the frequency range 3.4-3.7 GHz;

That several countries in the continent are already using spectrum in 3.4-3.7 GHz for FWA; and



That the 3.4-3.7 GHz band may be divided into sub-bands suitable for FWA system

implementations as described in Annex A,

RECOMMENDS:

1. That countries in the Americas consider the radio frequency band in 3.4-3.7 GHz for the implementation of fixed wireless access systems; subject to spectrum availability.
2. That 6 contiguous 50 MHz sub-bands should be designated for FWA applications in the band 3400 to 3700 MHz.

ANNEX A

A Suitable Band Plan for FWA

The 3.4 to 3.7 GHz band may be divided into sub-bands of 50 MHz. Each of the contiguous 50 MHz sub-bands are to be provided with 4 MHz guard bands at each end, see Figure 1.

Figure 1. Frequency Band Plan

It should be noted that some technologies may require, in addition to the guard bands shown in Figure 1, additional adjacent channel protection. This frequency band plan provides suitable flexibility, for example:

1. Operators can use one or more sub-bands A-F to suit their specific vendor and modulation scheme or capacity / service requirements.
2. Each operator can use different technologies in different sub-bands or different geographic areas, to meet local requirements.
3. Operators can use these sub-bands on a local, regional or national basis, and can use a variety of vendors and technologies to suit each area or service mix and technology / evolution option.
4. Operators can share their sub-band(s) under bilateral co-ordination and sharing agreements which can vary in each area.
5. Choice of 50 MHz sub-band(s) or combinations (on a national, regional or local basis) can be influenced by the presence of other Radiocommunications applications (e.g., radiolocation, fixed satellite, and conventional point-to-point fixed systems).

Technology flexibility is achieved by not defining the channelization within each sub-band. This will enable operators to choose TDMA, CDMA, TDD, FDD or appropriate mixtures, and vary their choices by geographic area over time as the technologies evolve. The operator's objective is to deliver a range of services via standardized fixed interfaces (RJ-11, ISDN, RS-232/422) regardless of the bearer technology, rather than to meet a standard air interface or wireless terminal specification.

Competitive offerings are achieved by the need to co-ordinate the use of the sub-bands in the most valuable way for the mix of services and technologies needed by the operator. This can change over time and over different geographic areas. Examples of possible sub-band combinations include:

- Option 1: A+B or C+d or E+F or B+C or D+E
(TDMA)**
- Option 2: A+D or B+E or C+F
(CDMA)**
- Option 3: A&B + E&F
(CDMA)**
- Option 4: Any band or group of bands
(alternative technologies)**

PCC.III/DEC.8 (IV-96)

The Fourth meeting of the Permanent Consultative Committee III: Radiocommunications decided that the Executive Secretary submit to the member administrations the document PCC.III 319/96 whereby the United States delegation presented a proposal to carry out a test program on frequency sharing by non-geostationary satellite mobile systems.

PCC.III/DEC.9 (IV-96)

The Fourth meeting of the Permanent Consultative Committee III: Radiocommunications decided that the working group on mobile satellite services and low orbit earth satellite over 1 GHz, shall study the resolutions and recommendations of WRC-95 and ITU-R, and based on the studies, shall elaborate various guidelines to the CITEL member countries, coordinating the relevant work with the working group in

charge of preparing participation in WRC-97.

**VI. LIST OF THE BASIC DOCUMENTS RESULTING FROM THE THIRD MEETING OF
PCC.III: RADIOCOMMUNICATIONS**

Report of the meeting: agenda, authorities, resolutions, recommendations, decisions and list of the basic documents resulting from the meeting: PCC.III-325/96 rev.1.

Summary Minutes of the First Plenary Session: PCC.III-300/96 rev.1

Summary Minutes of the Second Plenary Session: PCC.III-310/96

Summary Minutes of the Third Plenary and Fourth Sessions: PCC.III-323/96

Summary Minutes of the Fifth Plenary Session: PCC.III-324/96

List of Documents: PCC.III-250/96 rev.3

List of Participants: PCC.III-266/96 rev.2
