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World Telecommunication Development Conference
Buenos Aires, 21-29 March 1994

VOL.

I

FINAL REPORT





WORLD TELECOMMUNICATION DEVELOPMENT CONFERENCE

FINAL REPORT

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SUMMARY

1.1 Introduction

The first World Telecommunication Development Conference (WTDC-94) took place in Buenos Aires, Argentina, from 21 to 29 March 1994. The Conference was attended by 957 participants, including delegations from 133 Member countries of the International Telecommunication Union (ITU), headed by ministers or senior officials, representatives of 31 organizations and agencies, ITU elected officials and staff members, as well as many private sector representatives. The purposes of the Conference were:

- to review the progress made in telecommunication development in the last decade;
- to set the goals and objectives and to define and establish a common vision and strategies for achieving balanced telecommunication development by and beyond the end of the century; and
- to develop an action plan translating the goals and objectives agreed upon into a concrete work programme to be implemented over the next four years.

1.2 The inaugural ceremony

The Conference was inaugurated by His Excellency Dr. Carlos Menem, President of the Argentine Republic. Dr. Pekka Tarjanne, Secretary-General of the ITU and Mr. Al Gore, Vice-President of the United States of America also addressed the Conference in the inaugural ceremony.

1.3 Election of Chairmen

The following persons were elected Chairmen of the Conference:

<u>Chairman of the Conference</u>	:	Dr. O. F. GONZALEZ (Argentina)
<u>Vice-Chairmen of the Conference</u>	:	Mr. ZHAO GAOFENG (China) Mr. A. KRUPNOV (Russia) Mr. S. AL BASHEER (Saudi Arabia) Mr. R. RODRIGUEZ (United States of America) H.E. Mrs. A. LIPOU MASSALA (Congo)

The Conference established five Committees and one Working Group of the Plenary on the Special Programme for the Least Developed Countries. The following persons were elected Chairmen of these Committees and of the Working Group:

<u>Committee 1</u> (Steering Committee)	:	Composed of the Chairmen and Vice-Chairmen of the Conference and its Committees and chaired by the Conference Chairman.
<u>Committee 2</u> (Budget Control)	:	<u>Chairman</u> : Mr. U. MOHR (Germany) <u>Vice-Chairman</u> : Mr. T. DE BONO (Malta)

<u>Committee 3</u> (Development policies, investment strategies and mobilization of resources)	:	<u>Chairman</u>	: Mr. A. BERRADA (Morocco)
		<u>Vice-Chairmen</u>	: Mr. C. COLAVITO (Italy) Mr. L.M. BROWN HERNANDEZ (Mexico)
<u>Committee 4</u> (Harmonization of telecommunication networks, and human resources development and management)	:	<u>Chairman</u>	: Mr. N. VITTAL (India)
		<u>Vice-Chairmen</u>	: Mr. K. SUZUKI (Japan) Mr. R. SHINGIRAH (Kenya)
<u>Committee 5</u> (Editorial)	:	<u>Chairman</u>	: Mr. T. PILLET (France)
		<u>Vice-Chairmen</u>	: Mr. V. RUBIO CARRETON (Spain) Mr. M. JOHNSON (United Kingdom)
<u>Working Group of the Plenary</u> (Least Developed Countries (LDCs))	:	<u>Chairman</u>	: Mr. H. VIGNON (Benin)
		<u>Vice-Chairmen</u>	: Mr. T. ZEITOUN (Canada) Mr. M.A. YUSOFF (Malaysia)

1.4 Study Groups

As elaborated in Resolution No. 2, the WTDC decided to establish two study groups to enable the ITU and its members to study, at the global level, issues relating to the institutional, technical, commercial, regulatory and economic evolution of the sector. In the ITU Development Sector, study groups are fora in which BDT Members can work together to find solutions to problems identified in the form of 'Questions'. Thus, study groups are means of pooling resources and drawing upon the accumulated experience of Members for studies, development of guidelines, handbooks and tools, etc. for the benefit of developing countries. The study groups will also provide essential inputs to the 12 programmes of the Buenos Aires Action Plan.

The Chairmen elected for the two Study Groups are shown below.

Study Group1

Telecommunication development strategies and policies, including financing policies, having regard to the current institutional, structural and regulatory reforms taking place in the telecommunication sector.

Chairman : Mr. A. HAMZA (Algeria)
Vice-Chairmen: Mr. P. HORVÁTH (Hungary)
Mr. A. SALIM (Bangladesh)

Study Group 2

Means to be implemented by developing countries, with the assistance of the BDT and the cooperation of the other two Sectors, for applying new technologies, having regard to the economic and commercial advantages they offer and considering also other related issues, such as:

- network planning and harmonization;
- management and organization; and
- management and development of human resources (also considered in Study Group 1).

Chairman : Mr. C. KILLIAN (Argentina)

Vice-Chairmen: Mr. M.A. YUSOFF (Malaysia)

Mr. S.D. MATANKARI (Nigeria)

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BUENOS AIRES DECLARATION ON GLOBAL TELECOMMUNICATION DEVELOPMENT FOR THE 21ST CENTURY

1. The first World Telecommunication Development Conference (WTDC-94) held by the International Telecommunication Union (ITU) since the establishment of its Telecommunication Development Sector (ITU-D), took place in Buenos Aires, Argentina, from 21 to 29 March 1994. Delegations from 133 Member countries of the ITU, headed by ministers or senior officials, and representatives of 31 organizations and agencies, as well as many private sector representatives, participated in the Conference. The purposes of the Conference were: (a) to review the progress made in telecommunication development since publication in December 1984 of the Report of the Independent Commission for World-Wide Telecommunications Development "The Missing Link"; (b) to set the goals and objectives up to the year 2000 and to define and establish a common vision and strategies for achieving balanced telecommunication development by and beyond the end of the century; and (c) to approve an action plan which translates the goals and objectives agreed upon into a concrete work programme to be implemented over the next four years, identifying those priorities specific to the ITU and those areas of cooperation with its development partners.

2. In his opening address, Dr. Pekka Tarjanne, Secretary-General of the ITU, reviewed developments since the Maitland Report ("The Missing Link") and briefly outlined the challenges facing the world telecommunication sector. In his keynote address, United States Vice-President Al Gore called on legislators, regulators and business people to work together to build and operate a Global Information Infrastructure which would bring improved social and economic conditions to all people. He emphasized the need for all countries of the world to participate fully in the benefits of this "network of networks" and urged the Conference to bring this goal quickly within the reach of developing countries.

3. The Conference was inaugurated by His Excellency Dr. Carlos Menem, President of the Republic of Argentina. He convincingly articulated the intimate link between telecommunications and development, not only in his own country but in all countries of the world.

4. The Conference was chaired by Dr. Oscar González, Undersecretary of Communications of Argentina.

5. The Conference was addressed by many ministers responsible for telecommunications and other senior representatives of governments and international and regional organizations. They stressed the importance of translating the indisputable potential of telecommunications into concrete action to improve the lives of all peoples of the world, especially those in developing countries. They also stressed the serious imbalance in world telecommunication development which constrains the development of the global economy and should be a common concern of the whole international community. Practical remedies should be adopted.

6. The Conference expressed its appreciation to the Government of the Republic of Argentina for hosting the Conference and providing the conditions which contributed to its success.

7. The Minister of Transport and Communications of Malta extended an invitation to host the next WTDC in 1998. This proposal was gratefully accepted by the Conference.

8. The Conference was the culmination of a process highlighted by:

- (a) the Maitland Report;
- (b) the Arusha Declaration on World Telecommunications Development (May 1985);
- (c) the decision of the Plenipotentiary Conference (Nice, 1989) to strengthen the Union's development role by establishing the Telecommunication Development Bureau (BDT);
- (d) the ITU High Level Committee's Report "Tomorrow's ITU: The Challenges of Change", which recommended that "... the ITU [should] play a more clearly-defined catalytic role, as envisaged in Nice Resolution No. 14, by working cooperatively with international, regional and bilateral development and financial agencies, and by presenting to developing countries the range of policy and structural options that will generate greater resources for telecommunications development";
- (e) the ITU Constitution and Convention (Geneva, 1992) which refer, *inter alia*, to the Union's catalytic role in stimulating telecommunication development, call for special attention to be given to the requirements of the least developed countries, and establish the ITU Telecommunication Development Sector;
- (f) the Resolutions and recommendations of the first cycle of regional telecommunication development conferences:
 - Harare, 1990 for Africa
 - Prague, 1991 for Europe
 - Acapulco, 1992 for the Americas
 - Cairo, 1992 for the Arab States
 - Singapore, 1993 for Asia and the Pacific;
- (g) the insights provided in the message from the Telecommunication Development Advisory Board;
- (h) the concept of sustainable development emphasized by the United Nations Conference on Environment and Development, Rio de Janeiro, June 1992.

9. Taking note of the above and with a view to setting goals and objectives for the future, the Conference **declares that:**

- (a) Telecommunications is an essential component of political, economic, social and cultural development. It fuels the global information society and economy which is rapidly transforming local, national and international life and despite physical boundaries is promoting better understanding between peoples. Thus, ITU Members have the duty to provide for communications to be made available to all individuals, groups and peoples. A dynamic area of economic activity in its own right, telecommunications underlies practically all areas of economic activity and facilitates trade.

- (b) New technological developments in telecommunication and information technologies have the potential to close the development gaps between developing and developed countries and, in individual countries, between densely and sparsely populated areas. Telecommunications may unintentionally perpetuate the development gaps without a more determined, integrated and strategic approach to the challenges of telecommunication development by governments, the private sector and international and regional organizations.
- (c) Any strategic cooperation for the development of telecommunications must recognize the varying levels of development in developing countries. While encouraged by the convergence between medium and high teledensity countries, there is still a growing divergence between medium and low teledensity ones. This fact underscores the need to pay special attention to the requirements of the least developed countries.
- (d) Given that the telecommunication requirements of most developing countries are vast, and the resources available to meet them limited, governments should establish appropriate telecommunication policies and regulatory structures.
- (e) The development of telecommunications may be fostered by liberalization, private investment and competition in appropriate circumstances. Their introduction in any restructuring exercise should be compatible with national development goals and with improving service to underserved areas. Such a restructuring should include a regulatory system which will :
- create a stable and transparent environment to attract investment;
 - facilitate access of service providers to the network with a framework that promotes fair competition while protecting network integrity;
 - ensure the provision of universal service helping to achieve integrated rural development as well as promoting innovation and the introduction of new services and technologies; and
 - guarantee the rights of users, operators and investors.

Restructuring should promote partnerships between telecommunication organizations in developing and developed countries that equitably take account of the interests of developing countries.

- (f) The ITU has a special role to play in advising policy-makers on the options available in tailoring policies and regulatory structures to fit a country's particular requirements. The ITU should work in close cooperation with regional telecommunication organizations and international, regional and national development and financing agencies.
- (g) Since the resources available through multilateral cooperation will not be sufficient to meet the requirements of developing countries, the ITU must play a creative catalytic role in concert with all the entities forming part of its wide family, and with global, regional and national organizations and agencies, and the private sector. These development, financing and investment agencies, both global, regional and national, are urged to attach higher priority to the development of telecommunications in developing countries.
- (h) The studies carried out in the ITU Radiocommunication and Telecommunication Standardization Sectors play a significant role in the transfer of knowledge and technology. Close cooperation between these Sectors and the Telecommunication Development Sector is necessary to bring about new dynamism to this transfer.
- (i) Development strategies should encompass sound and television broadcasting via terrestrial and satellite systems as one of the key factors in promoting social and cultural development. The new broadcasting technologies being developed will provide opportunities, including those of distance learning, for a greater contribution to development.

- (j) No telecommunication network can be designed, installed and operated efficiently without appropriately skilled staff at all levels. Human resources development and management require innovative approaches to meet the challenges of the rapidly changing telecommunication environment.
 - (k) The Buenos Aires Action Plan, adopted by this Conference, establishes a programme of cooperation among the members of the Telecommunication Development Sector (development conferences, study groups, etc.), a programme of assistance to developing countries, and a special programme to enable the least developed countries to reach a threshold of sustainable telecommunication development.
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BUENOS AIRES ACTION PLAN FOR THE GLOBAL DEVELOPMENT OF TELECOMMUNICATIONS

Work Programme of the Telecommunication Development Sector for the period 1994-1998

INTRODUCTION

This work programme for the Telecommunication Development Sector (ITU-D) for the period 1994-1998 was developed by the first World Telecommunication Development Conference (WTDC, Buenos Aires) which was convened from 21 to 29 March 1994. It comprises the following parts:

Chapter I: A programme of cooperation among the members of the Telecommunication Development Sector

Chapter II: A plan of action by the BDT for assisting the developing countries

Chapter III: A special programme for the Least Developed Countries

These three parts are based on the Buenos Aires Declaration, specifying the long-term goals and orientation and a Resolution defining the policy and strategy for the Sector over the same period.

This work programme also contains in chapter III a certain number of activities which could be financed by extrabudgetary resources (including voluntary contributions) in accordance with Nos. 486 and 487 of the Convention of the ITU (Geneva, 1992) and Resolution 24 and Recommendation 1 of the Plenipotentiary Conference (Nice, 1989).

CHAPTER I

Programme of cooperation among the members of the Telecommunication Development Sector

I.1 Introduction

This programme is intended to include all meetings in world and regional development conferences, in study groups, in associated working parties and in the Telecommunication Development Advisory Board (TDAB).

I.2 World telecommunication development conferences

It is assumed that in accordance with the Convention, the Council will convene a world telecommunication development conference in 1998.

I.3 Regional telecommunication development conferences

Taking into account the programme of meetings in the period 1994-1998 and considering the need to plan for meetings of the study groups set up by this Conference, the Director of the BDT in consultation with the Secretary-General shall propose to the Council the regions for which such conferences should be convened.

I.4 Study groups

In accordance with Resolution No. 2, this Conference sets up two study groups as well as the Questions to be studied by them and their working methods. Each of the two study groups shall normally have two meetings within the study period. Study groups may set up working parties and decide on their meetings within their budgetary limits.

The following Questions were adopted by the Conference for study by Study Groups 1 and 2 during the period 1994-1998. Council (1994) may consider the order of priority.

Study Group 1

- Question 1/1: Role of telecommunications in economic, social and cultural development
- Question 2/1: Telecommunication policies and their repercussions at the level of institutional, regulatory and operational aspects of services
- Question 3/1: Impact of the introduction and utilization of new technologies on the commercial and regulatory environment of telecommunications
- Question 4/1: Policies and ways for financing telecommunication infrastructures in developing countries
- Question 5/1: Industrialization and transfer of technology

Study Group 2

- Question 1/2: Special concerns of developing countries in relation to the work of the Radiocommunication and Telecommunication Standardization Sectors¹
- Question 2/2: Preparation of handbooks for developing countries
- Question 3/2: Planning, management operation, and maintenance of telecommunication networks
- Question 4/2: Communications for rural and remote areas
- Question 5/2: Human resources development and management
- Question 6/2: Impact of telecommunications in health-care and other social services
- Question 7/2: Telecommunication support for the protection of the environment
- Question 8/2: Public service broadcasting infrastructure in developing countries

I.5 Priority

The Conference agreed that the special programme for the LDCs will be the first priority.

I.6 Telecommunication Development Advisory Board (TDAB)

The Conference considered that a more efficient management of the Sector would require a review of the membership and the function of the TDAB and adopted in this respect a Resolution recommending to the Plenipotentiary Conference (Kyoto, 1994) to make consequential changes to the Convention. Six meetings of the TDAB are foreseen for the period 1994-1998.

¹ The study of the work of the Radiocommunication and Telecommunication Standardization Sectors relating to regulation and tariff aspects as well as to the development of new services will be dealt with jointly by Study Groups 1 and 2.

CHAPTER II

Plan of action by the BDT for assisting the developing countries

II.1 Introduction

This chapter covers all BDT activities in supporting the study groups in carrying out global or regional programmes and studies, in assisting individual countries, and in executing United Nations Development Programme (UNDP) and Funds-in-Trust projects.

II.2 Global and regional programmes and studies

These programmes and studies are either in support of the study group or are undertaken within the framework of the normal assistance provided by the BDT.

II.2.1 Updating existing programmes and studies

A number of programmes and studies were carried out by the former Technical Cooperation Department. Other programmes and studies have been initiated by the BDT and are on the way to completion. Appropriate manpower is required for updating and compiling these programmes and studies.

II.2.2 New programmes

The Buenos Aires Action Plan proposes 12 new programmes which will provide a focus for the work of the ITU Development Sector. The underlying philosophy is to use resources available within the budget of the ITU Development Sector to leverage a much wider, coordinated effort on the part of the telecommunication community.

The Action Plan refers mainly to coordinated activities of regional and global relevance. It is expected that these activities will be complemented by multilateral and bilateral projects, executed or supported by the BDT and its development partners. The impact of such projects and their contribution to the goals and objectives of the Buenos Aires Action Plan will be greatly enhanced if they are designed and implemented in a coordinated manner within the framework of this Plan. This should be taken into account when assigning priorities related to proposals and requests for multilateral and bilateral programmes and projects.

a) Programme No. 1: POLICIES, STRATEGIES AND FINANCING

1. Programme goals, objectives and strategies

The purpose of this programme is to develop models and guidelines for the harmonization of national policies, regulations, including national regulation of the spectrum and its pricing, and institutional structures conducive to accelerated and balanced development of telecommunication systems worldwide.

Such policies and strategies would enable all nations in the world to fully exploit all telecommunication tools for sustainable social, economic, and cultural development, for international and regional cooperation, for protection and improvement of the environment, for rescue and relief operations, and for peaceful coexistence. One of the objectives of the programme is to facilitate the exchange of information and experiences between and among members of the ITU Development Sector and other development partners.

2. Proposed actions:

The following actions are recommended and shall be reviewed by Study Groups 1 and 2.

1. To organize roundtables, seminars, and workshops on telecommunication policies, strategies, and financing.
2. To develop documentation on national telecommunication policies, strategies, finance and regulation. (Can also be useful for Programme No. 11.)
3. To produce surveys and studies (handbooks) on the specific policies carried out in various countries, and to bring the results of these studies to the attention of national policy-makers and planners.²
4. To train national policy-makers, regulators, and planners in this field and provide other assistance that may be necessary.

² Refer to Questions 1/1, 2/1, 3/1 and 4/1 of Study Group 1 and 4/2 and 5/2 of Study Group 2.

b) Programme No. 2: HUMAN RESOURCES MANAGEMENT AND DEVELOPMENT (HRM/HRD)

1. Programme goals, objectives and strategies

The long-term goal is to provide human resources, particularly in developing countries, with the competencies and motivation required for regulatory bodies and telecommunication service providers to operate efficiently in the changing telecommunication environment and contribute effectively to the achievement of the goals of the Buenos Aires Action Plan.

These goals also imply that the HRM/HRD programme, besides providing a framework for coordination of ITU Members' and other development partners' efforts to develop the human resources within the telecommunication sector, should contribute to the development of flexible and open learning systems which particularly address the needs of people and small enterprises in rural and low-income urban areas (see also Programmes Nos. 9 and 12 - Integrated Rural Development and Development of Telematics and Computer Networks).

Thus, the HRM/HRD programme will contribute to improve the relevance and accessibility of distance education and training offered at regional and global levels and support current initiatives to bring together academic and R&D institutions as well as other potential suppliers of distance learning in a global effort for the transfer of know-how and harmonization of diplomas and certificates. In particular, the competent study group and the BDT should continue to play a leading role in the development of models and standards for the cooperative design of flexible, portable and adaptable, modular distance learning programmes as well as standardized management information systems capable of handling both needs for and supply of such programmes, i.e. an "electronic market place" easily accessible by users as well as providers of training courses.

2. Proposed actions:

The following programmes are recommended and shall be reviewed by Study Groups 1 and 2.

1. Management Development for Telecommunications (MANDEVTEL)
2. TeleProject
3. Needs analysis, provision of training (joint ventures, etc.)
4. Global distance learning system for technicians³
5. Development of standards, models, guidelines and other tools
6. Global Telecommunication University
7. Development of R&D capabilities
8. Direct assistance for improvement of HRM/HRD
9. Distance education and training for rural and low-income areas⁴
10. Information system on HRM/HRD activities ("electronic market place" for training).

³ Feasibility studies and pilot projects.

⁴ In coordination with Programmes Nos. 9 and 12 (Integrated Rural Development and Development of Telematics and Computer Networks).

c) Programme No. 3: GUIDELINES FOR THE ELABORATION OF A BUSINESS-ORIENTED DEVELOPMENT PLAN

1. Programme goals, objectives and strategies

The long-term goal is to enable national administrations to produce and update their business-oriented development plan.

The immediate objective of the programme is to prepare a guide, to prepare the corresponding training material, and to organize regional seminars to disseminate the know-how. In view of the large number of countries in the developing regions, regional ITU-sponsored training centres such as the ESMT (multinational telecommunication high school) and AFRALTI (African Advanced Level Telecommunication Institute) could be used to achieve a faster and sustainable penetration.

2. Proposed actions:

The following actions are recommended and shall be reviewed by Study Group 2.

1. Preparation of guidelines for the elaboration of a business-oriented development plan
2. Development of training material
3. Field trial(s)
4. Training courses.

d) Programme No. 4: DEVELOPMENT OF MARITIME RADIOCOMMUNICATION SERVICES

1. Programme goals, objectives and strategies

The goal of this programme is to provide a framework for the development of maritime radiocommunication services which will: provide facilities for the introduction of the Global Maritime Distress and Safety System (GMDSS) within the time limit established by the Safety of Life at Sea (SOLAS) Convention; provide facilities for the efficient operation of maritime transport systems and the development of trade; promote further use of maritime activities, such as commercial fishing, off-shore oil exploration, tourism and transport of people, animals and goods.

The immediate objective is to prepare for each country a plan for the development of maritime radiocommunication services including the implementation of the GMDSS, and to train national counterparts to undertake this work. Such plans will contain all information needed to be submitted to national and multinational financial institutions. The projects for all regions are planned to be concluded two years before the deadline for implementation of the GMDSS.

2. *Proposed actions:*

The following actions are recommended and shall be reviewed by Study Group 2.

1. Training courses
2. Preparation of plans
3. Review of plans
4. Resource mobilization for implementation of plans.

e) **Programme No. 5: COMPUTER-AIDED NETWORK PLANNING**

1. *Programme goals, objectives and strategies*

The long-term objective is to develop telecommunication network planning capabilities in all interested organizations, particularly in developing countries, in order to increase their self-reliance in this field. Participation in these activities will promote the acceptance of globally standardized tools, including the further development of ITU software (PLANITU), for telecommunication network planning, reduce duplication of software development and maintenance, and facilitate cooperation between Members. Administrations participating in this programme will have: network planning unit(s) established and work procedures organized; network planning software installed; and staff trained in traffic engineering and network planning activities.

2. *Proposed actions:*

The following actions are recommended and shall be reviewed by Study Group 2.

1. Software development
2. Development of training material
3. Training courses
4. Software support
5. Equipment procurement.

f) **Programme No. 6: FREQUENCY MANAGEMENT**

1. *Programme goals, objectives and strategies*

The objective is to assist developing countries in this field in computerizing their spectrum management. A Basic Automated Spectrum Management System (BASMS) is to be developed. Furthermore, it is envisaged to develop in the near future an Advanced Spectrum Management System (ASMS) based on the BASMS' functional requirements, to provide increased flexibility and networking capabilities in a multi-user environment. Training programmes on both systems in all ITU official languages will be organized for developing countries. Expected outcomes include: the establishment of national spectrum management units in administrations; the installation of software for national computerized spectrum management; and the training of staff in computerized spectrum management.

2. Proposed actions:

The following actions are recommended and shall be reviewed by Study Group 2⁵.

1. Development of national spectrum management software
2. Development of guidelines for radio spectrum management
3. Development of basic spectrum management specifications
4. Training programmes.

g) Programme No. 7: IMPROVEMENT OF MAINTENANCE

1. Programme goals, objectives and strategies

The objectives of this programme are to improve the maintenance organization, including the Management Information System (MIS) designed to monitor quality of service, handling of customers' complaints and fault repair, and to improve material and spare-parts management in developing countries, as required to reach the quality of service (e.g., call completion rates, fault repair time) presently achieved in developed countries. This is expected to increase considerably the return on investment in the countries concerned. It is also planned to develop maintenance guidelines, support software and pilot maintenance organizations and centres in some 10-20 countries in developing regions, with priority given to the LDCs. The experience gained would be shared through regionally organized seminars and through the mechanism of study groups. BDT experts and consultants would assist in the introduction of guidelines and support tools in the participating countries and later in other countries. The participation of telecommunication entities in advanced countries in the development of handbooks and support software will be necessary to achieve these goals initially. BDT experts, particularly those based in the regions, and in some cases consultants employed by the BDT, would provide assistance to individual countries.

2. Proposed actions:

The following actions are recommended and shall be reviewed by Study Group 2.

1. Develop guidelines and handbooks (refer to Question 3/2)
2. Development of a MIS for maintenance
3. Planning of maintenance organization
4. Implementation of maintenance organization (measuring equipment, etc.)
5. Training of staff (see also Programme No. 2).

⁵ The Radiocommunication Sector is requested to study appropriate spectrum pricing strategies for effective utilization and management of this natural resource.

h) Programme No. 8: MOBILE CELLULAR RADIO TELEPHONE SYSTEMS

1. Programme goals, objectives and strategies

The programme will: prepare manuals through Study Group 2 that would assist in planning and engineering of mobile cellular radio telephone systems; using manuals and handbooks, train engineers from developing countries in the planning and engineering aspects; compile software tools for planning and engineering and provide training programmes on such software tools; assist administrations in the development of mobile cellular radio telephone systems infrastructure and in the transfer of related know-how. Manuals and handbooks will be drafted by Study Group 2, external experts and BDT staff. Pilot training programmes will be implemented by BDT staff and consultants at the regional level, with fellowships given to LDCs from the BDT budget and possibly from external sources. Training and dissemination of manuals and handbooks will then be ensured at country level by national entities.

2. Proposed actions:

The following actions are recommended and shall be reviewed by Study Group 2.

1. Development of planning methodology (refer to Questions 1/2 and 2/2)
2. Development of manuals and training material on planning and engineering
3. Training seminars.

i) Programme No. 9: INTEGRATED RURAL DEVELOPMENT

1. Programme goals, objectives and strategies

In the long term, the goal is to provide 'community telecentres', equipped to offer telematic services and support, and public phone booths for all rural communities in developing and, where needed, in developed countries, serving approximately 10,000 inhabitants. This will be piloted during the next cycle (1994-1998) by the establishment of community telecentres in some 20 countries in developing regions, priority being given to the LDCs. The experience gained, including an evaluation of the telecentres' contribution to sustainable development, will be shared through the study groups, seminars, etc. Policy guidelines for integrated rural development will also be produced in conjunction with Programme No. 1. Bearing in mind the importance of trade and international cooperation, regional programmes will create the critical mass required to bring about and demonstrate the benefits of this concept which are so difficult to realize in isolated country programmes. Networking rural community telecentres, not only among themselves but also with telecommunication networks in developed countries, will contribute significantly to sustain this development (see also Programme No. 12 - Development of Telematics and Computer Networks).

2. *Proposed actions:*

The following actions are recommended and shall be reviewed by Study Groups 1 and 2.

1. Develop appropriate national policy guidelines⁶
2. Coordination with other UN specialized agencies at international level in the promotion of integrated rural development
3. Participate in long-term planning of integrated rural development at regional and national levels
4. Planning of rural networks⁷ (e.g. satellite, cellular radio, fibre optics)
5. Implementation of networks (providing access to global networks)
6. Provision of terminal equipment
7. Training of community telecentre staff⁸
8. Evaluation of pilot project
9. Promotion of the community telecentre concept and services.

j) Programme No. 10: BROADCASTING INFRASTRUCTURE

1. Programme goals, objectives and strategies

The long-term objective is to develop the planning, management and operational capabilities of those broadcasting organizations and independent broadcasting service providers, particularly from the developing countries, that are willing to increase their self-reliance and efficiency.

The immediate objective is to produce guidelines that serve both the nationwide service providers and the independent broadcasters and, in particular, to develop and test in a real environment, software, manuals and procedures to improve the planning of the sound and television broadcasting services.

The experience gained would be shared by means of regionally-held seminars/workshops organized specifically to ensure a transfer of know-how and to enable an exchange of experience at the national level.

⁶ To be integrated into Programme No. 1 (Policies, Strategies and Financing).

⁷ In coordination with Programmes Nos. 5 and 12 (Computer-Aided Network Planning and Development of Telematics and Computer Networks).

⁸ In cooperation with Programme No. 12 (Development of Telematics and Computer Networks). As the Community Telecentre obtains equipment for distance learning and technology-based training (TBT), and after initiation in the use of multimedia, the continuous training of Community Telecentre staff will increasingly be carried out through distance learning and electronic networking.

2. *Proposed actions:*

The following actions are recommended and shall be reviewed by Study Group 2.

1. Elaboration of guides and preparation of development master plans for broadcasting infrastructure (related to the business-oriented development plans)
2. Preparation of a planning manual for broadcasting technologies
3. Development of PC user-friendly software for the FM/TV planning of a broadcasting transmitter coverage area with adjacent and co-channel interference calculations within a transmitter service area applicable at the national level
4. Regular organization of regional seminars on new technologies in sound and TV broadcasting
5. VHF/UHF propagation measurement campaign for tropical areas.

k) Programme No. 11: INFORMATION SERVICES

1. *Programme goals, objectives and strategies*

The long-term goal of the programme is the establishment of a comprehensive databank of information including broad coverage of the communication sector, organizational profiles, responsibilities and activities; regulatory environments; multilateral and bilateral project assistance; private sector activities and financing indicators, to benefit the worldwide telecommunication community. This will allow the BDT to provide a better range of services and to be more responsive to requests for information from its members and its information services customers. The short-term objectives are to:

- establish a Working Group on telecommunication indicators to identify and define required information and to serve as a forum for presenting research on the impact of telecommunications, and for reviewing draft documents before publication; Study Groups 1 and 2 will coordinate the work of this Working Group;
- increase the frequency of publication and expand the coverage of the BDT indicators to include projections and more detailed regional and global telecommunication outlooks.
- increase resources to expand the database and to collect, harmonize, verify, analyse and disseminate information.

2. *Proposed actions:*

The following actions are recommended and shall be reviewed by Study Groups 1 and 2.

1. To extend and enhance the database and electronic information dissemination
2. To produce indicator series and analytical reports
3. To create a Working Group on Telecommunication Indicators
4. To develop national MISs and to develop training for use of MISs
5. To continuously respond to requests for information and analysis
6. To explore the use of telecommunication and information services to create a global library, linking the developed and developing countries alike, in collaboration with other organizations dealing with these matters.

I) Programme No. 12: DEVELOPMENT OF TELEMATICS AND COMPUTER NETWORKS

1. *Programme goals, objectives and strategies*

The long-term goal is to facilitate access to information resources available in many countries by establishing connections to computer networks from many locations, including rural communities in countries that presently have little or no access to such resources. More specifically, to give decision makers at all levels, researchers and agents of change (and in the longer term, ordinary citizens), including those located in rural areas in developing countries, access to telematic services enabling them:

- to participate actively in global cooperative activities related to the UN Conference on Environment and Development, Agenda 21
- to exchange electronically stored and transmitted data, information, graphics, still pictures and video for the purpose of improving trade, transport, health-care, education and training, etc.
- to participate in conferences (telephone, on-line computer and video)

In the next cycle (1994-1998) the objectives are:

- to connect all BDT field offices in a network which enables communication via electronic mail, and through the exchange of electronically stored multi-media and participation in video conferences. The offices would then function as hubs and training centres for the countries in which they are located and for neighbouring ones
- to carry out a globally coordinated regional pilot project for the development of telematics and computer networks in conjunction with Programme No. 9
- to provide an electronic forum (i.e. list service or bulletin board) to allow community telecentres to exchange experiences.

2. *Proposed actions:*

The following actions are recommended and shall be reviewed by Study Groups 1 and 2:

1. Develop and promote appropriate national policy guidelines⁹
2. Planning of networks¹⁰
3. Implementation of networks (providing access to global networks)
4. Provision of terminal equipment
5. Training and capacity building
6. Evaluation of pilot project
7. Advise on and facilitate, through the BDT and the study groups, the means of establishing a global library, on an individual country basis, in collaboration with other organizations dealing with these matters.

II.3. Ad hoc assistance

Ad hoc assistance comprises assistance given to individual countries or groups of countries which is not directly related to Programmes Nos. 1-12 described above. It includes missions of BDT staff, for instance for needs identification, project formulation, monitoring and evaluation, tender specifications and evaluation, etc. It also includes ad hoc seminars, information meetings and advisory missions in response to urgent requests.

II.4 Execution of UNDP and Funds-in-Trust projects

This includes all the technical and administrative support provided for the implementation of projects, partly or fully financed by other development partners, and executed by the ITU.

⁹ To be integrated into Programme No. 1 (Policies, Strategies and Financing).

¹⁰ In coordination with Programme No. 5 (Computer-Aided Network Planning).

CHAPTER III

Special Programme for the Least Developed Countries (LDCs)

The LDCs should, as with the other developing countries, benefit from the programmes and the ad hoc assistance described in Chapter II. A special programme for the LDCs financed from the ITU resources is contained in Resolution No. 1 (Special Programme of Assistance for the Least Developed Countries (LDCs)).

As a general target, at least 70% of the resources allocated for Programmes Nos. 1 to 12 will directly support the LDC activities, in the following order of priority:

- 1) development of rural telecommunications
- 2) human resources development
- 3) management
- 4) maintenance
- 5) planning.

Taking into account the exceptional situation of the LDCs, the Conference decided to request the Secretary-General of the ITU and the Director of the BDT to use untied voluntary contributions as well as any excess income from world and regional telecommunication exhibitions and forums (Recommendation No. 1, Nice, 1989) for the benefit of the LDCs.

In order to mobilize additional resources (see Resolution No. 1 on Special Programme of Assistance for the LDCs), Council is requested to set up a group of experts to study the way in which these resources would be used.

PROGRAMMES

Strategy

The overall strategy of the LDC programme is to implement augmented ITU assistance as a catalytic input to generate sustained investment in telecommunications in the LDCs. The LDC programme primarily seeks to eliminate bottlenecks in the five key areas of critical weakness which have been identified above in order to enhance the capacity of the LDCs to absorb such investments.

Targets

The ITU LDC programme has not set particularly ambitious objectives and/or targets. For the year 2000 the programme is targeted at:

- (a) fully meeting the demand for telecommunication services in urban areas. This means virtually eliminating the waiting list for services by that year, which translates into an average urban main line (ML) density of 5 per 100 population;
- (b) achieving a rural ML density of 1 ML per 10,000 inhabitants. This density will not as yet amount to easy access to telecommunication services as suggested in the Missing Link report, but is a bold move in that direction.

The 1994-1998 Programme

The 1994-1998 Programme has been devised on the basis of:

- o an expected rise of 25% in demand for ITU assistance as a result of an unfavourable international scenario in the provision of technical assistance
- o an attempt to meet presently unmet, but deserving, demands in the order of 25% of the current budget
- o inclusion of a new area of priority (rural telecommunications) and a new sub-area of priority (sector reform and restructuring)
- o an increase in the number of LDCs from 42 in 1989 to 47 in 1991, a figure which is expected to rise to 52 by 1999.

Activities/Action Plan for the 1994-1998 Programme

1. Development of rural telecommunications

- 1.1 Study of appropriate technologies for rural telecommunications
- 1.2 Implementation of pilot projects on rural telecommunications
- 1.3 Workshops/seminars on rural telecommunications
- 1.4 Support for regional rural telecommunication activities

2. Human resources development

- 2.1 Training of outside plant instructors
- 2.2 Training of staff in modern methods of outside plant maintenance
- 2.3 Training of senior telecommunication maintenance managers in modern management maintenance techniques
- 2.4 Training managers of training centres in training management techniques
- 2.5 Individual fellowships for instructors and training managers
- 2.6 Miscellaneous fellowships
- 2.7 Seminars/workshops
- 2.8 Periodic training missions to training centres
- 2.9 Support for regional training centres

3. Management

- 3.1 Workshops/seminars for qualified senior and middle-level telecommunication managers to develop general management strategies and skills
- 3.2 Workshops/seminars on financial management
- 3.3 Assistance in telecommunication sector reform/restructuring
- 3.4 Assistance in tariff studies and implementation
- 3.5 Workshops/seminars in network management
- 3.6 Introduction of MIS/Decision Support Systems (DSS)
- 3.7 Assistance in telecommunication regulation and legislation
- 3.8 Establishment of performance indicators

4. Maintenance

- 4.1 Identification of quality of service indicators
- 4.2 Identification of performance indicators (maintenance)
- 4.3 Development of a guide on the introduction of a Computerized Subscriber Maintenance System (CSMS)
- 4.4 Pilot project for the CSMS
- 4.5 Development/introduction of network management systems
- 4.6 Updating and implementation of the National Plan for the Improvement of Maintenance (NPIM) in Africa
- 4.7 Support for regional maintenance projects/activities

5. Planning

- 5.1 Development of a guide for the preparation of business-oriented development plans or comprehensive development programmes
- 5.2 Updating of business-oriented development plans
- 5.3 Sectoral studies and reviews
- 5.4 Assistance in the introduction of new technologies/services
- 5.5 Preparation and organization of roundtable/donor conferences
- 5.6 Support for regional planning projects/activities
- 5.7 Traffic study and analysis as a tool for network expansion

6. Individual unforeseen country requests

- 6.1 Development of rural telecommunications
 - 6.2 Human resources development
 - 6.3 Management
 - 6.4 Maintenance
 - 6.5 Planning.
-

**RESOLUTIONS
AND
RECOMMENDATIONS**

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RESOLUTION NO.1

Special Programme of Assistance for the Least Developed Countries (LDCs)

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

considering

a) the ITU's global policy of assistance to LDCs and in particular Resolution No. 26 of the Plenipotentiary Conference (Nice, 1989) which

"instructs the Secretary-General

1. to continue to review the state of telecommunication services in the Least Developed Countries identified by the United Nations and needing special measures for telecommunication development;
2. to report his findings to the Council;
3. to propose concrete measures intended to bring about genuine improvements and provide effective assistance to these Least Developed Countries from the Special Voluntary Programme for Technical Cooperation, the Union's own resources and other sources;
4. to report annually on the matter to the Council;"

b) the decision adopted by the United Nations Conference (Paris, 1990) in accordance with which the United Nations system shall lend greater assistance to the LDCs in line with the Programme of Action for the LDCs;

c) the endorsement by the Additional Plenipotentiary Conference (Geneva, 1992) of the High Level Committee's Recommendation No. 21 in accordance with which the Telecommunication Development Bureau (BDT) is to pay particular attention to the requirements of the LDCs,

recalling

Resolutions No. 12 of the Regional Telecommunication Development Conference for the Arab States (Cairo, 1992) and No. 12 of the Regional Telecommunication Development Conference for Asia and the Pacific (Singapore, 1993) on the Special Assistance Programme for the LDCs,

noting

a) that there are currently 47 LDCs worldwide, 29 of which are in Africa, 13 in Asia and the Pacific, 4 in the Arab Region, and 1 in the Americas, and that the number of LDCs has increased from 25 in 1971 to 47 in 1994, that this figure has risen by 5 since the adoption by the Plenipotentiary Conference (Nice, 1989) of Resolution No. 26 and will rise to over 50 countries by the turn of the century;

b) that although the ITU cannot assist the LDCs financially in the expansion and modernization of their networks due to its limited resources, it can assist in the improvement of the quality of existing networks and services and help the LDCs generate more revenue as a result of this improved efficiency, through its practically-oriented programmed activities and in coordination with the other projects financed by other resources in the countries concerned,

concerned

a) that the telecommunication networks in many LDCs are in an extremely poor state of development both in urban and rural areas and for a variety of reasons;

b) that the resources from multilateral and bilateral sources to the LDCs are decreasing, in absolute and in real terms;

c) that the United Nations Development Programme funds for technical assistance have decreased, particularly as regards regional programmes;

d) that the priority given in many LDCs to the development of telecommunications in general and specifically in rural areas is insufficient,

cognizant

of the fact that improved telecommunication networks in these countries will be the prime mover of their socio-economic recovery and development, owing in particular to their contribution to integrated rural development (health, education, agriculture, etc.),

resolves to endorse

the Special programme of assistance for the LDCs as contained in the Buenos Aires Action Plan,

instructs the Director of the BDT

1. to implement fully the Special programme of assistance for the LDCs, giving priority to rural telecommunication development, to the development of strategies for mobilizing resources and to assistance for restructuring the telecommunication sector;

2. to give special priority to the LDCs in the implementation of other BDT programmes, such as missions by the Special Studies and Backstopping Division, the Human Resource Development Division, as well as fellowship funds, the Special Voluntary Programme, and the Technical Cooperation among Developing Countries funds;

3. to coordinate, as necessary with the Radiocommunication and Telecommunication Standardization Sectors, implementation of the Special programme of assistance for the LDCs;

4. to convene a mid-term evaluation meeting of this programme,

requests the Secretary-General of the ITU

1. to continue and enhance the assistance provided to the LDCs in cooperation with other development partners;
 2. to bring this Resolution to the attention of the highest level of government of the LDCs;
 3. to convey to the Kyoto Plenipotentiary Conference the need to review that part of the ITU regular budget allocated to the LDCs with a view to enabling the BDT to undertake increased responsibilities for the LDCs.
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RESOLUTION NO.2

Establishment of Study Groups

The World Telecommunication Development Conference (WTDC, Buenos Aires, 21-29 March 1994),

considering

- a) Article 21 and in particular No. 127 of the Constitution (Geneva, 1992) on the specific functions of the Telecommunication Development Sector (ITU-D);
- b) Nos. 209, 211 and 214 of the Convention (Geneva, 1992);
- c) the provisions of Resolution 7 of the Additional Plenipotentiary Conference (Geneva, 1992),

having noted

the documents presented to the WTDC,

having considered

- a) the Report by the Director of the Telecommunication Development Bureau (BDT) on the activities of the Bureau since its inception;
- b) the follow-up to the Maitland Report, entitled "A policy perspective on the role of the ITU in development";
- c) the Questions which it has been decided that the ITU-D should study during the 1994-1998 study period as part of the implementation of the Buenos Aires Action Plan (see Annex IV);
- d) Resolution 15 of the Plenipotentiary Conference (Nice, 1989);

taking into account

the economic and social environment prevailing in the different regions,

recognizing

- a) the desirability of studying at the global level a number of priority problems related to the institutional, technical, commercial, regulatory and economic evolution of the telecommunication sector, having regard to the gradual globalization of the sector and its implications for the developing countries;
- b) the need for the Director of the BDT to take appropriate steps to facilitate the active participation of developing countries in the work of the Telecommunication Development Sector,

stressing

the need to avoid duplication between studies undertaken by the Telecommunication Development Sector and those carried out by the Radiocommunication and Telecommunication Standardization Sectors,

resolves

to create within the Telecommunication Development Sector and until the next world telecommunication development conference two study groups to study respectively:

1. telecommunication development strategies and policies, including financing policies, having regard to the current institutional, structural and regulatory reforms taking place in the telecommunication sector;
2. the means to be implemented by developing countries, with the assistance of the BDT and the cooperation of the other two Sectors, for applying new technologies, having regard to the economic and commercial advantages they offer and the network planning, harmonization and management problems they might raise.

Annexes: 4

ANNEX I

TERMS OF REFERENCE OF STUDY GROUP 1

Telecommunication¹ development strategies and policies

1. Synthesize available information on the role of telecommunications in the social and economic development of countries and, in particular, quantifying the economic benefits of integrating the telecommunication sector in overall development plans.
2. Make a comparative analysis of national regulatory models and policies in the telecommunication sector currently enforced in various countries with a view to evaluating the economic and social implications of regulatory reforms and gathering and distributing existing information related to telecommunication regulation policy and financing (e.g., compiling bibliographies on various related topics).
3. Develop recommendations, guidelines and/or handbooks on methods and criteria for the evaluation and implementation of strategies and policies intended to promote the appropriate reforms of the telecommunication sector in the developing countries, including the development of industry, within the general framework of their national policies for economic, social and cultural development.
4. Prepare recommendations for optimal structures and appropriate resources for a regulatory entity to fulfil efficiently its functions in matters such as the availability and quality of service of telecommunications to the public, the introduction and use of new technologies, the interoperability of networks and services, the establishment and application of competition rules and the implementation of price regulation.
5. Develop in coordination with Study Group 2 means to assist developing countries in evaluating the impact of the introduction and use of new technologies and services, including multi-media, on the evolving commercial and regulatory environment in the telecommunication sector.
6. Prepare and maintain an inventory of financial strategies and the various sources of financing (development aid, development banks, private sector, etc.), including their conditions and requirements as well as an analysis of the applicability of the various financial strategies under different circumstances.
7. Prepare guidelines on the measures to be taken to ensure that operators enjoy the conditions necessary to generate revenue, including cost-oriented tariff policies, legal mechanisms designed to foster the reinvestment of profits, and improvements in business management.
8. Examine the criteria which would enable developing countries to establish tariff policies that take into account the evolution of the telecommunication sector.
9. Study forms of cooperation, plans, programmes, etc., in the field of rural telecommunications, in which developed countries with experience in the field participate together with developing countries.

¹ Includes sound and TV broadcasting.

10. Coordinate, through the Director of the BDT and where appropriate through the Secretary-General of the ITU, with other relevant international organizations, regional organizations and working groups with related goals and functions for the establishment of joint meetings and/or the development of projects, when feasible, to maximize available resources and avoid duplication of work.

11. Consistent with the functions assigned to the Sector by the Convention (Geneva, 1992), specify the directives on the basis of which the BDT shall prepare, maintain in data banks and publish in accordance with the Convention the following: a) information on the sales prices of the equipment and services required for developing a telecommunication network, including whatever data are required to enable regulatory entities, State administrations and operating companies to have a reference basis for their decisions; b) internationally comparable indicators on network development, new services, quality of service, staff, tariffs, financial and investment data, etc.; c) updated versions of the World and Regional Plans developed by the former World and Regional Plan Committees; d) other statistical information that may be needed by the Study Group.

12. Extend assistance to the Director of the BDT to arrange seminars and workshops devoted to:

- telecommunication policy and technical development;
- the development of a local and regional telecommunication industry in developing countries.

ANNEX II

TERMS OF REFERENCE OF STUDY GROUP 2

Development, harmonization, management and maintenance of telecommunication² networks and services, including spectrum management

1. Study and analyse the implications of introducing new technologies for developing countries, specifically how they affect planning, harmonization, tariff setting and commercialization, management and maintenance of telecommunication networks and services, and including human resources, taking into account the economic and social environment of each region or country.
2. Analyse the evolution of networks and services, including spectrum management, in order to identify those applications that may be particularly relevant to developing countries.
3. Propose technical solutions to improve access to basic telecommunication services in rural and remote areas in developing countries.
4. Develop manuals and practical guidelines for planning, management, operation and maintenance of telecommunication networks and services, based on new technologies.
5. Taking into account the results of the activities listed above, identify the basic criteria for developing business-oriented development plans.
6. Prepare recommendations within its areas of competence.

The Study Group may consider establishing working parties on technology modernization and harmonization and on human resources development.

² Includes sound and TV broadcasting.

ANNEX III

ASPECTS COMMON TO BOTH STUDY GROUPS

As human resources development and management (HRD/HRM) are relevant to both Study Groups, the Study Groups should serve as a worldwide forum for the exchange of information and discussion of issues of common interest that are salient to the development and management of human resources. Further, the Study Groups should endeavour to synthesize sources of information within and external to the ITU on models, guides, tools, and programmes related to HRD/HRM with the goal of developing ITU-D texts and models on policies and procedures for HRD/HRM as they relate to the two Study Groups.

The Study Groups shall determine their working methods with a view to minimizing the cost and optimizing the use of resources, including those from the other two Sectors of the ITU, when appropriate. They may establish, if necessary, working parties at the global or regional level on specific issues, taking account of the results of the working groups on similar issues established by the regional telecommunication development conferences (RTDCs), which may be integrated in the Study Groups as appropriate. The work programmes of the Study Groups and their working parties should be coordinated with related programmes of the Study Groups of the other two ITU Sectors and take into account similar activities of other international and regional organizations, with a view to avoiding duplication of work. When inviting participation, the Director, in collaboration with the Chairmen of the Study Groups, shall ensure that the necessary experts in financing, accounting and operational management can be associated to the studies. The Study Groups should pay particular attention to the problems of the Least Developed Countries.

A human resources development programme will be identified and developed by both Study Groups in their respective areas. A coordination mechanism between the Study Groups will be established to ensure proper exchange of information and the development of a harmonized, global work plan in human resources development.

This coordination shall be managed to ensure implementation by the BDT of the agreed upon programme in an appropriate way. In particular, this coordination function will operate with respect to the allocation of the budgetary resources. The Chairmen of Study Groups 1 and 2 will jointly agree on the HRD work plan and work with the Director of the BDT to oversee its implementation.

Study Group 1 will establish the programme content, seminar plans, and guidelines for the training programmes dealing with policy, strategies and regulations. Study Group 1 may establish a specific Working Party to prepare these plans and develop the manuals and practical guidelines. The Study Group will have available the necessary resources, including the services of the BDT staff, to define training and other educational programmes on policy issues.

Study Group 2 will be responsible for implementing the overall, integrated programme of HRD and establish mechanisms to provide training in the most effective and efficient manner. Thus it will establish the programme content, seminar plans, and guidelines for the training programmes dealing with technology modernization and harmonization, and develop the manuals and practical guidelines.

The Study Groups shall be constituted for the period 1994-1998 with specific tasks, goals and time tables as stipulated in the work programme.

ANNEX IV

QUESTIONS TO BE STUDIED BY THE STUDY GROUPS

Study Group 1

- Question 1/1: Role of telecommunications in economic, social and cultural development
- Question 2/1: Telecommunication policies and their repercussions at the level of institutional, regulatory and operational aspects of services
- Question 3/1: Impact of the introduction and utilization of new technologies on the commercial and regulatory environment of telecommunications
- Question 4/1: Policies and ways for financing telecommunication infrastructures in developing countries
- Question 5/1: Industrialization and transfer of technology.

Study Group 2

- Question 1/2: Special concerns of developing countries in relation to the work of the Radiocommunication and Telecommunication Standardization Sectors³
- Question 2/2: Preparation of handbooks for developing countries
- Question 3/2: Planning, management operation, and maintenance of telecommunication networks
- Question 4/2: Communications for rural and remote areas
- Question 5/2: Human resources development and management
- Question 6/2: Impact of telecommunications in health-care and other social services
- Question 7/2: Telecommunication support for the protection of the environment
- Question 8/2: Public service broadcasting infrastructure in developing countries.

³ The study of the work of the Radiocommunication and Telecommunication Standardization Sectors related to regulation and tariff aspects as well as to the development of new services will be jointly dealt with by Study Group 1 and Study Group 2.

STUDY GROUP 1

Question 1/1: Role of telecommunications in economic, social and cultural development

1. Statement of problem

Telecommunications is likely to play an increasingly important role in economic growth and the development of trade in goods and services.

The importance of telecommunication infrastructures in the development of countries has been stressed in numerous expert studies which show a close correlation between the number of main telephone lines and per capita income.

In addition, telecommunications is an important feature of social cohesion at national or regional level and facilitates access to information, thus contributing to the development of knowledge.

It should, moreover, be emphasized that the establishment of programmes for the introduction and extension of advanced services enables small and medium enterprises to develop through the resulting improved management. This will be an important factor in the creation of a managerial corps whose impact will be considerable on the economic development of countries.

The new services also will facilitate access to distance training and learning programmes and will have a positive influence on the cultural development of countries.

2. Question

In order to provide political decision makers with an overview of the role played by telecommunications in a country's economic, social and cultural development, whatever studies and information are available on the subject should be consolidated and the experience accumulated by other countries should be shared, with a view in particular to quantifying the economic benefits of including the telecommunication sector in general national or regional development plans.

3. Expected results

Preparation of a preliminary report by mid-1996.

4. Liaison

In order to prepare the above-mentioned report, close cooperation should be established with the other international and regional organizations which deal with development issues including those involved in the fields of health, education, culture and the environment, as well as with the main universities or research institutes which have carried out studies in this area.

Question 2/1: Telecommunication policies and their repercussions at the level of institutional, regulatory and operational aspects of services⁴

1. Statement of problem

Current technological and regulatory development in the telecommunication sector is opening up new possibilities but is also raising new problems for the developing countries. These problems have increased with the gradual globalization of trade in products and services which has recently spread to the telecommunication sector.

In the same way as technological development, this new consideration should persuade many developing countries to reform or restructure fairly extensively the organization and regulation of their telecommunication sector, taking into account other countries' experience in the same field.

Moreover, policies in the telecommunication sector are moving towards the separation of regulatory and operational functions, service liberalization and the entry of competition, favouring a reduction of State participation in the capital of operating agencies. Operators should thus, in the present environment, move towards business-oriented management structures by adapting their accounting plans to market economies. Therefore, it will also be necessary to adjust the level of investment, to obtain new sources of financing, to promote profitable investment and to shift from being the operator of the telephone service to being a business enterprise capable of providing every type of service. At the same time, it is necessary to accelerate the development of telecommunications at the national level to which end there is a need for more effort in the areas of investment, technical training, human resources management, etc. This situation implies new management formulae, both within operators and in their relations with operating agencies in other countries.

2. Question

Telecommunication policies and regulatory models currently applied by Members of the Union differ appreciably from one country to another.

On the basis of a sufficiently representative cross-section of existing policies and taking due account of work already carried out at the regional level, a comparative analysis should be made of the different regulatory models applied, with a view to preparing recommendations or guidelines for the developing countries on:

1. the methods and criteria needed in order to assess the value and extent of the legislative, structural and regulatory reforms which should be introduced in the telecommunication sector as part of the implementation at the national level of a global economic, social and cultural development policy;
2. the respective roles and functions of the component elements of the telecommunication sector, the regulatory structures and resources required in the light of the necessary reforms - taking into account Resolution No. 4 on Telecommunication Policies and Strategies adopted by WTDC-94;
3. the ways of adjusting operating agencies to the new regulatory models and the activities associated with universal service that can be developed at the same time as business-oriented management, as well as the applicable models and criteria to guide a new business management approach.

⁴ Taking into account Resolution No. 4 on Telecommunication Policies and Strategies adopted by WTDC-94.

3. Expected results

Preparation of recommendations or guidelines by end 1996.

4. Liaison

For study of this Question, liaison should be established in particular with the other international and regional organizations which deal with the structural and regulatory aspects of telecommunications.

Question 3/1: Impact of the introduction and utilization of new technologies on the commercial and regulatory environment of telecommunications

1. Statement of problem

New technologies (satellites, optical fibre, intelligent networks, cellular mobile communications, etc.) have brought about a rapid development of new telecommunication products and services to satisfy the increasingly diverse requirements of customers.

In the face of this change, current legislation often does not allow market access to the new suppliers or operators who are better equipped to provide these services than the traditional operators.

The developing countries should in due course have access to information and studies which will enable them to evaluate the regulatory and commercial impact of introducing and using new technologies in the telecommunication sector.

2. Question

What effects might the introduction and utilization of new technologies have on the supply and regulation of telecommunication services ?

How can a developing country reconcile the utilization of these new technologies in a more competitive commercial environment with the objective of guaranteeing access to basic services at a reasonable cost throughout its territory ?

3. Expected results

Preparation of a report and guidelines by mid-1997.

4. Liaison

Liaison should be established with the ITU-T and ITU-R to obtain information on the current development of new technologies and their utilization in the supply of new services.

The study of this Question should take into account current technological developments, in particular those related to the use of mobile and satellite services.

Question 4/1: Policies and ways for financing telecommunication infrastructures in developing countries

1. Statement of problem

The implementation of modern telecommunication infrastructures in developing countries requires considerable investment, the volume of which usually exceeds the financing capacities of the concerned national administrations or operators.

New sources of investment financing are often needed to ensure the development and modernization of telecommunication infrastructures in developing countries over a reasonable period of time.

Given this situation, the concerned administrations or operators must gain an overall view of the different possibilities offered in financing policies and techniques, as well as of factors which can create a climate favourable to investment.

2. Question

To what financing policies, methods and techniques might administrations or operators in developing countries have recourse in order to secure the investment necessary for developing their telecommunication infrastructures ?

What conditions must be observed for obtaining certain types of finance ?

What factors (national legislation, structural aspects, regulatory framework, price control policy, etc.) might help to create a climate favourable to investment?

Based on an analysis of different tariff models, which recommendations or guidelines may be formulated in relation to:

- a) models of adjusting tariffs to costs; methods of calculating the cost of services;
- b) the evolution of tariff structures within the framework of a policy aimed at progressive balanced tariff structures;
- c) an analysis of channels for securing lines of credit for financing investments in infrastructure and training to make the improved quality controls viable.

Which appropriate recommendations can be applied between the countries concerned in relation to the international accounting rates bearing in mind the results obtained from the various studies undertaken by the ITU-T concerning the elements to be taken into account when determining the costs of telecommunication services?⁵

3. Expected results

Preparation of a report by mid-1996.

4. Liaison

In order to study this Question, contacts should be established inter alia with the financing agencies, development banks and other international, intergovernmental or regional organizations concerned with the financing of development projects.

Question 5/1: Industrialization and transfer of technology

1. Statement of problem

Telecommunication industries require appropriate investment, technological know-how and know-why, and markets to justify production at an industrial scale.

Manufacturers of computer and telecommunication equipment in industrialized countries may benefit from the participation of developing countries in R&D activities, in the development of new technologies, and in the identification of user requirements.

2. Question

The Study Group should examine the policy aspects relevant to telecommunication industrialization in and transfer of technological know-how and know-why to developing countries, taking into account commercial practices, economic and legal constraints, market opportunities and the need for effective collaboration with industrialized countries and among the developing countries.

⁵ This part of the Question should be studied in close liaison with ITU-T Study Group 3 to ensure harmonized results.

3. Expected results

Study completed by mid-1996.

4. Liaison

The study should be prepared in close collaboration with the ITU-R and ITU-T as well as with other concerned international (for example, UNIDO) and regional organizations.

STUDY GROUP 2

Question 1/2: Special concerns of developing countries in relation to the work of the Radiocommunication and Telecommunication Standardization Sectors⁶

1. Statement of problem

The Radiocommunication and Telecommunication Standardization Sectors are engaged in continuing work programmes that focus on questions of interest to all Member countries. It was the clear intent of the Members at the Additional Plenipotentiary Conference (Geneva, 1992) to encourage efficiency through inter-Sector cooperation and to avoid duplication of work programmes between these Sectors and the Development Sector. Nonetheless, there are issues of special interest and relevance to developing countries that can best be addressed by the Development Sector.

In particular, the developing countries will be expanding their telecommunication infrastructure under circumstances different from those that were true for many developed countries. The new technologies that are available in the developed countries to supplement existing systems will, in a number of cases, be used as primary technologies in the developing countries. Similarly, there will be an urgent need to address the issue of the interoperability of networks and to improve spectrum management techniques. These circumstances raise two problems. First, the developing countries must have access to the full range of information and skills currently available within the other two Sectors in order to make informed decisions. Second, the other two Sectors must have the benefit of the developing countries' contributions to their respective ongoing work programmes. The resolution of these problems must take place within the Development Sector; the cost of implementing the programmes suggested below will be borne by the Development Sector.

2. Question

The Study Group shall:

- a) identify Radiocommunication Sector and Telecommunication Standardization Sector Study Group Questions of particular concern to developing countries and systematically inform them of the progress of work and facilitate the presentation of their views to the relevant Study Groups in the ITU-T and ITU-R;
- b) within the parameters of the work ongoing within the other two Sectors, identify issues that, due to the unique characteristics of developing countries, require specialized study which cannot be undertaken within the other two Sectors; establish the priority assigned to these issues; and implement a work programme to study them;
- c) after consideration of the work being done under ITU-R Resolution 11 and in coordination with ITU-R Study Group 1, ITU-D Study Group 2 would, if necessary, adapt spectrum management models to the needs of developing countries, taking account of their human resources, technological and financial requirements, with particular emphasis on the use of automated systems;

⁶ The study of the work of the Radiocommunication and Telecommunication Standardization Sectors related to regulation and tariff aspects as well as to the development of new services will be jointly dealt with by Study Group 1 and Study Group 2.

- d) determine a work programme to assist developing countries to evaluate the appropriateness of a broad array of technologies (including satellite and terrestrial radiocommunications) to satisfy their equipment and service requirements and to encourage modernization and normalization to ensure interoperability of networks; develop a methodology to analyse the benefits and costs associated with investment in relevant technologies and implementation of related systems; and identify associated requirements for human resource development.

3. Expected results

Work programme, containing a clear statement of issues to be addressed and timetables, available by end 1994.

4. Liaison

The work programme and subsequent activities should be conducted in close collaboration with the ITU-R and ITU-T (taking into account ITU-R Resolution 16 and Resolution 17 of the World Telecommunication Standardization Conference (Helsinki, 1993), as well as with international and regional organizations.

Question 2/2: Preparation of handbooks for developing countries

1. Statement of problem

In its Resolution No. 7 the Additional Plenipotentiary Conference (Geneva, 1992) agreed to the transfer of the activities of the former CCIR and the former CCITT Special Autonomous Groups (GASs) to the BDT in accordance with Recommendation 50 of the High Level Committee.

In view of the rapid development of new technologies and their impact on the commercial telecommunication environment, the developing countries should be able to enjoy an ongoing transfer of know-how and expertise from the international community, particularly in the technical, economic and management areas of telecommunications.

It is recognized that the preparation of new handbooks or the revision of existing ones can help to spread knowledge and know-how in these fields.

2. Question

In what areas and subjects should handbooks previously produced by the GASs be revised and/or new handbooks developed ?

Special attention should be given to the following:

- a) rural telecommunications;
- b) the use and harmonization of new technologies in developing countries to encourage the introduction and interoperability of new telecommunication networks and services;
- c) technical, economic and management aspects related to the use of these technologies.

3. Expected results

Preparation of handbooks by mid-1997.

4. Liaison

In order to study this Question, close liaison must be made and established between Study Groups 1 and 2 and the appropriate study groups of the other two ITU Sectors together with other international and regional organizations concerned with the implementation of development projects in the fields covered by the handbooks to be prepared.

Note: This Question should be studied in a specific and separate working party of Study Group 2.

Question 3/2: Planning, management operation, and maintenance of telecommunication networks

1. Statement of problem

The development of the telecommunication infrastructures varies widely among countries; in many developing countries, there is insufficient infrastructure penetration to give access to the basic telecommunication services required by the users with adequate quality, efficiency and reliability. There is increasing pressure on developing countries to provide specialized telecommunication and information services to health, education, banking and the industrial sectors, as well as to expand service availability for the general population. New technologies also challenge the efficacy of traditional network plans that rely on a single type of service delivery (usually terrestrial). Today, network planners require information and skills to support the longer-term assessment of national needs and to assist in addressing the harmonized national, regional and global aspects of infrastructure development.

Moreover, networks can be sustained and expanded only if they are efficiently managed and properly maintained. Management and maintenance require pre-established management structures and a maintenance plan that is effective in terms of cost and quality of service. Telecommunication operators, both public and private, must have staff that are trained in the required management and maintenance skills and are responsive to the increasing commercialization of the telecommunication sector.

2. Question

The Study Group shall:

- a) identify issues arising from the convergence of information and telecommunication technologies and the emergence of globally harmonized and interconnected networks that are of specific relevance to the network planning function within developing countries and determine whether a need exists for guidelines, handbooks or additional data collection and dissemination on these issues;
- b) consider and document various approaches to the technical maintenance of telecommunication networks, providing the means to evaluate the human and technological elements of such maintenance approaches; as needed, develop training materials to assist countries to implement upgraded maintenance programmes;
- c) assess the needs of developing countries for telecommunication-specific management training and coordinate with the other two Sectors, Study Group 1 and the relevant regional and international organizations to develop guidelines for such training and to identify materials to be incorporated in courses, handbooks and/or databases (see also Question 5/2 on Human resources development and management).

3. Expected results

Preliminary report available by end 1995.

4. Liaison

This report should be prepared in close collaboration with the ITU-R and ITU-T as well as with other concerned international and regional organizations.

Question 4/2: Communications for rural and remote areas⁷

1. Statement of problem

Rural and remote areas of most developing countries have less population density and suffer from an almost complete lack of telecommunication infrastructures. Telecommunication and information technologies are very powerful means for providing education and training. They are also a means to accelerate the growth of the rural economy which subsequently helps in alleviating poverty and in improving living conditions in rural areas.

Reliable telecommunication facilities in rural areas will:

- a) help in increasing access to relevant information for marketing and distribution of agricultural products and other goods manufactured in rural areas;
- b) promote the growth of local industries and the relocation of industries from congested urban to rural areas;
- c) assist in achieving accelerated and integrated development of rural areas by playing a catalytic role for the development of several other sectors and other constituents of basic infrastructure.

Access to basic telecommunication services in rural areas is essential to sustain life and services not only as a means of public communications but also as comprehensive communication facilities for relaying information on medical treatment, disaster relief, administrative and other matters.

Development of appropriate technologies, policies and regulations can lead to self-sufficiency and profitability of rural telecommunications.

2. Question

On the basis of studies already carried out by the BDT, international, regional and national organizations, consolidate the material available and formulate recommendations on the following:

- a) low-cost appropriate technology options for rural telecommunications;
- b) planning and implementation of national rural telecommunication development plans;
- c) promotion of the application of telecommunication facilities for developing various sectors of rural infrastructure and rural economy;
- d) appropriate regulatory structures in a liberalised telecommunication regime as recommended by Study Group 1 as a means of encouraging the extension of telecommunication services to remote and rural areas⁸;
- e) options available for financing rural and remote projects including co-financing, foreign investment, etc.

3. Expected results

Preliminary report and recommendations available by mid-1996.

4. Liaison

Close liaison with Study Group 1 is necessary on regulatory and financial methods. The report and recommendations should be prepared in close collaboration with the ITU-R and ITU-T as well as with other concerned international and regional organizations.

⁷ Study Group 1 will associate with the study of this Question in the relevant areas of its competence.

⁸ This part of the Question may need to be considered by Study Group 1.

Question 5/2: Human resources development and management⁹

1. Statement of problem

The telecommunication sector in many developing countries is undergoing substantial restructuring in terms of the introduction of market principles into the activities of the operators and the revision of the regulatory framework governing the sector. It is essential that government policy-makers and regulators familiarize themselves with restructuring mechanisms.

The changes occurring in the technological and commercial environment also call for new skills, knowledge and expertise to manage telecommunication organizations and to operate networks and services. To cope with these changes in technology and market structures, human resources development must be intensified in the developing countries to upgrade in particular the skills of staff in the telecommunication organizations and to enhance management capabilities in order to implement business-oriented management structures.

A large number of technical and managerial training methods and instructional material have been produced by industry and otherwise within the sector; at the same time, technology has made it possible to deliver a full range of courses to a targeted audience within the work place or elsewhere. This knowledge and experience should be used to make available to the developing countries comprehensive training programmes incorporated into or adopted for national and regional human resources development programmes.

2. Question

With a view to changing the management culture of telecommunication agencies and organizations as well as enhancing human resources development in network management and new technologies:

- a) identify and evaluate the specific training requirements of managers, engineers and technicians to improve the efficiency of telecommunication organizations and to ensure a successful implementation of new technologies in an increasingly competitive global environment;
- b) identify training programmes and methods to assist government officials to adapt to the new rules and responsibilities created by the changing nature of telecommunication organizations¹⁰;
- c) develop practical training methods and programmes for the planning, installation, operation and maintenance of new telecommunication networks and services, including computer-based training, distance learning and multimedia programmes; studies should also cover managerial activities and staffing requirements, taking account of opportunities and consequences of the telecommunication sector restructuring;
- d) provide suggestions to the Director of the BDT on human resources development priorities and effective programmes;
- e) training for adapting telecommunication enterprises to the new competitive environment.

3. Expected results

Preliminary report and recommendations by mid-1996.

4. Liaison

Close liaison with Study Group 1 should be established.

⁹ Study Group 1 will associate with the study of this Question in the relevant areas of its competence.

¹⁰ This part of the Question may need to be considered by Study Group 1.

Question 6/2: Impact of telecommunications in health-care and other social services

1. Statement of problem

The widespread use of telemedicine services could allow universal health access and consequently facilitate the solution of the principal health problems connected with infectious diseases, paediatrics, cardiology, etc., particularly in areas where medical structures are inadequate or non-existing.

Telemedicine mainly concerns two different aspects related respectively to telecommunication infrastructures and health care organization.

2. Question

The Study Group shall:

1. define the technologies most suitable for telemedicine's most efficient diffusion to developing countries;
2. study the costs and benefits of different solutions taking into account the various solutions existing in the developing countries;
3. analyse the results of pilot projects, surveys, sectoral studies, etc. carried out by the various entities involved in order to better identify the main trends in technologies used for telemedicine;
4. foster the adoption of global standards required for systems and equipment in order to facilitate telemedicine and other social services;
5. produce a telemedicine handbook.

3. Expected results

Preliminary report available by mid-1996.

4. Liaison

This report should be prepared with the assistance of experts of the BDT and in close collaboration with the ITU-R and ITU-T as well as with other concerned international and regional organizations.

Question 7/2: Telecommunication support for the protection of the environment

1. Statement of problem

Telecommunication and information technologies have an important role to play in protecting the environment and in promoting development activities at low risk to the environment.

The application of the latest telecommunication and information technologies, especially those associated with space systems can be extremely useful in implementing and conducting environment protection activities such as monitoring air, river, harbour and sea pollution, as well as forestry, wildlife studies and others.

The application of telecommunication technology contributes to reducing paperwork which ultimately saves forests.

Telecommunication and information technologies respect the environment, and the related industries can be located in rural areas in order to reduce urban congestion.

There is a need to disseminate information on these aspects as stated in the Rio Declaration on Environment and Development, Agenda 21.

2. Question

In order to promote the application of telecommunication and information technologies for protecting the environment, the ITU/BDT, in collaboration with international and regional organizations shall:

- a) prepare a policy document for promoting the use of telecommunication, information and space technologies for applications devoted to the protection of the environment;
- b) disseminate information on applications of telecommunication and information technologies for the protection of the environment;
- c) organize seminars, training programmes, exhibitions and other similar activities to meet these objectives;
- d) create appropriate course material for conducting training programmes on the subject;
- e) conduct studies in selected areas (e.g., transport, forestry, river, harbour and sea pollution, wildlife migration, etc.) for evaluating and highlighting the advantages of telecommunication applications.

3. Expected results

Preparation of a preliminary report by mid-1996.

4. Liaison

The report should be prepared in close collaboration with the ITU-R and ITU-T as well as with other concerned international and regional organizations.

Question 8/2: Public service broadcasting infrastructure in developing countries

1. Statement of problem

Broadcasting plays a prominent role in educating and informing the public, and in supporting economic, social and cultural development. However, rapid changes in technology are posing challenges for public broadcasters, especially in developing countries. For example, advances in satellite technology have enhanced the ability to deliver services across vast geographical areas, and these have stimulated demands for higher technical quality and higher transmission capacity.

Because of a lack of resources, developing countries are finding it extremely difficult to develop an adequate technical infrastructure to meet the expectations of the public.

The problem is particularly acute in those countries where even a basic television service is yet to be introduced.

2. Questions

What impact does the evolving environment have on the public service broadcasting infrastructure?

In what ways can developing countries be assisted in improving the technical infrastructure of broadcasting in order to meet their needs?

3. Expected results

Preparation of a report by mid-1995.

4. Liaison

In order to prepare the above-mentioned report, close cooperation should be established with UNESCO and the regional broadcasting unions.

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RESOLUTION NO.3

Procedures to be Applied by Study Groups

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

considering

a) that pursuant to the provisions of Article 21 of the Constitution (Geneva, 1992), the functions of the ITU-D include providing advice and carrying out or sponsoring studies, as necessary, on technical, economic, financial, managerial, regulatory and policy issues, including studies of specific projects in the field of telecommunications;

b) that for carrying out such studies it may be appropriate to set up study groups, as provided for in Article 16 of the Convention (Geneva, 1992), to study specific telecommunication issues, including those aspects mentioned in No. 211 of the said Convention, and recommendations to help the developing countries to develop their telecommunications;

c) that the general working methods of the Development Sector are defined in Articles 16 to 18 and 19 to 22 of the Convention (Geneva, 1992);

d) that those general provisions should be supplemented by more detailed ones relating inter alia to the work of the study groups, the preparation and approval of Questions and the approval of recommendations,

resolves

that insofar as the ITU-D is concerned, the general provisions of the Convention referred to in paragraph c) above should be supplemented by the provisions of this Resolution and its Annex.

Annex: 1

ANNEX

SECTION 1

Study Groups and Working Parties

1. Creation of study groups and working parties

1.1 In accordance with the provisions of Article 16 of the Convention (Geneva, 1992), the WTDC may establish study groups for:

- a) studying a series of Questions falling within the terms of reference established by the Conference;
- b) elaborating draft recommendations or guidelines to foster telecommunication development in developing countries for the balanced worldwide development of telecommunications.

1.2 To facilitate their work, the study groups may set up working parties to deal with specific Questions or subjects, although the number of such working parties must remain limited.

1.3 In special cases, regional groups may be set up to study Questions or problems the specific nature of which makes it desirable that they be studied within the framework of one or more regions of the Union.

The establishment of regional groups should not give rise to duplication with work being done at the world level by the corresponding study group or its working parties.

1.4 It is proposed that in order to make the work of the study groups more effective, these should set up working groups, especially at a regional level, to deal also with some aspects pertaining specifically to regional organizations recognized by the ITU.

1.5 Following the WTDC, study group chairmen should meet with the Director of the BDT to draw up a draft work plan to implement the results of the WTDC. This plan should include any working parties to be created, a schedule of meetings and an agenda for the first meeting of each of the study groups. This information should be sent to all members and sector participants at least three months before a study group meeting.

2. Powers of the study groups

2.1 Each study group may develop draft recommendations for approval either by the WTDC or as provided in section 4 below. Recommendations approved in accordance with either procedure shall have the same status.

2.2 Each study group may also adopt draft Questions for approval by the WTDC or in accordance with the procedure described in section 3 paragraph 3 below.

2.3 In addition to the above, each study group shall be competent to adopt:

- Reports
- Recommendations
- Guidelines
- Handbooks.

The handbooks can be developed by contracting, for each handbook, a group of two or three experts from developed and developing countries to prepare a draft to be sent to the other Sectors for comments. An updated draft, including the comments from the other Sectors, shall be considered by the concerned study group of the ITU-D either in plenary or in a group set up for this purpose.

3. Meetings

3.1 The study groups or working parties shall normally meet at ITU headquarters.

3.2 However, some study group or working party meetings may take place outside Geneva in response to invitations by administrations, recognized operating agencies, or scientific or industrial organizations of ITU Member countries and if holding them outside Geneva is likely to facilitate the attendance of developing countries.

Such invitations shall normally be considered only if they are submitted to a WTDC or an ITU-D study group meeting. They shall be finally accepted after consultation with the Director of the BDT if they are compatible with the resources allocated to the BDT by the Council.

3.3 The invitations mentioned in paragraph 3.2 above shall be issued and accepted and the corresponding meetings outside Geneva organized only if the conditions laid down in Resolution No. 4 of the Plenipotentiary Conference (Nice, 1989) and ITU Council Decision No. 304 are met.

4. Participation in meetings

4.1 Administrations and other entities duly authorized to participate in ITU-D activities shall be represented in the study groups and associated working parties in whose work they wish to take part, by participants registered by name and chosen by them as experts qualified to make an effective contribution to the study of the Questions entrusted to those study groups.

4.2 The Director of the BDT shall keep up to date a list of the administrations and other entities participating in each study group or working party.

5. Frequency of meetings

5.1 The study groups shall in principle meet twice during the interval between two WTDCs. However, additional meetings may take place with the approval of the Director of the BDT, in accordance with the priorities laid down by the preceding WTDC and with the physical and budgetary resources of the BDT itself.

5.2 To ensure the best possible use of the resources of the Development Sector and of those participating in its work, the Director, in collaboration with the study group chairmen, shall establish and publish well in advance a timetable of meetings. The timetable shall take account of such factors as the capacity of the ITU Common Services, document requirements for meetings and the need for close coordination with the activities of the other Sectors and other international or regional organizations.

5.3 In the establishment of the work programme, the timetable of meetings must take into account the time required for participating bodies to prepare contributions. In principle not less than six months should elapse between a meeting of a study group and that of an associated working party, to allow time for the preparation and dissemination of the documentation needed for the studies (reports of meetings, contributions, etc.).

5.4 In the interval between two WTDCs, the study groups shall hold their final meetings not later than five months before the opening of the next WTDC to enable the final reports and draft recommendations to be prepared and disseminated within the required deadlines.

5.5 The programme of final Study Group meetings shall be established by the Director of the BDT in collaboration with the Chairman of each Study Group.

6. Establishment of work programmes and preparation of meetings

6.1 After each WTDC, a work programme shall be established by each study group chairman with the assistance of the BDT. The work programme shall take account of the Action Plan and priorities adopted by the WTDC.

How the work programme is implemented will, however, depend to a large extent on the contributions received from ITU-D members and the BDT Secretariat, as well as on the opinions expressed by participants in the meetings.

6.2 A Collective-letter with an agenda of the meeting, a draft work plan and a listing of the Questions to be studied shall be prepared by the BDT Secretariat with the help of the chairman of the study group concerned.

The Collective-letter must reach the bodies participating in the work of the study group concerned at the latest three months before the opening of the meeting.

A registration form must be appended to the Collective-letter so that the bodies concerned can state their intention to participate in the meeting. The form must then be returned to the BDT Secretariat so as to arrive at the latest three weeks before the meeting. It shall contain the names and addresses of intending participants or at least the number of participants expected if their names cannot be provided. This information will facilitate the registration process and the timely preparation of registration materials.

7. Preparation of study group and working party reports

7.1 Reports on the work done at study group or working party meetings shall be prepared by the BDT and shall contain a synopsis of the outcome of the work and emerging trends. They must also indicate items which require further study at the next meeting. The number of annexes to reports must be kept to a minimum.

Reports shall normally comprise two parts:

Part I - Organization of work - main results - trends - future work programme

Part II - Draft recommendations or guidelines.

7.2 Each report shall be submitted to the chairman of the study group or working party concerned for approval.

7.3 The report on the first meeting of the study group following a WTDC shall contain a list of the chairmen and vice-chairmen of any working parties that may have been created.

8. Study group reports to the WTDC

8.1 Study groups shall meet at the latest five months before the WTDC so that the bodies participating in ITU-D are able to receive the reports submitted by each study group to the Conference at the latest two months before that Conference.

8.2 The final draft of the report of each study group to the WTDC shall be the responsibility of the chairman of the study group concerned and shall contain:

- a recapitulatory summary of the results achieved by the study group during the study period in question. The summary shall indicate in particular the directions taken, guidelines established, handbooks adopted and recommendations developed;
- reference to any new or revised recommendations approved by correspondence by Members during the study period;
- the final text of draft new or revised recommendations submitted to the WTDC for approval;
- a list of any new or revised Questions proposed for study during the next study period.

SECTION 2

Submission and processing of contributions

1. Submission of contributions

- 1.1 Administrations and other duly authorized bodies registered with a study group or working party and the chairmen and vice-chairmen of study groups and/or working parties should submit their contributions to current studies to the Director of the BDT.
- 1.2 Such contributions should inter alia deal with the results of experience gained in telecommunication development, describe case-studies and/or contain proposals for promoting balanced worldwide and regional telecommunication development.
- 1.3 In order to facilitate the study of certain Questions, the BDT Secretariat may submit consolidated documents or the results of case-studies. Such documents will be treated as contributions.

2. Processing of contributions

- 2.1 Contributions received less than two months before a meeting shall be published in accordance with the normal procedures followed by the other two Sectors.

The Director shall assemble the documentation received, Question by Question, and arrange for any translation needed and for despatch to participants in the working language they desire before the date set for the meeting of a study group or working party having the Question concerned on its agenda.

- 2.2 Contributions received by the Director less than two months but not less than ten working days before the opening of a meeting will not be processed in accordance with the procedure outlined in paragraph 2.1 above and shall be published as "delayed contributions" in the original language only and in any other working language into which they may have been translated by the sender. They shall be distributed at the opening of the meeting solely to the participants present.
- 2.3 Contributions received by the Director less than ten working days before the opening of a meeting shall not be entered on the agenda. They shall not be distributed but will be held for the next meeting.
- 2.4 The BDT shall not reissue delayed contributions as normal contributions unless the study group or working party concerned decides otherwise in cases of special interest and importance. Delayed contributions shall not be incorporated in reports as annexes.
- 2.5 Extracts from reports on meetings of other study groups or from chairmen's reports received within two months before a meeting shall be published as "temporary documents" and distributed to participants during the meeting.

SECTION 3

Development and approval of Questions

1. Development of Questions

- 1.1 Proposed new Questions for the Development Sector shall be submitted at least four months prior to a WTDC by administrations and other bodies authorized to participate in the activities of the Sector.
- 1.2 However, an ITU-D study group may also propose new or revised Questions at the initiative of a member of that study group if there is sufficient consensus on the subject.
- 1.3 Each proposed Question should state the reasons for the proposal, the precise objective of the tasks to be performed, the urgency of the study and any contacts to be established with the other two Sectors and/or other international or regional bodies.
- 1.4 The Telecommunication Development Advisory Board (TDAB) shall be informed of proposed Questions so that it can offer its opinions and recommend any changes required.

2. Approval of Questions by the WTDC

- 2.1 The TDAB shall meet at least two months before a WTDC to examine proposed new Questions and if necessary recommend amendments to take account of the BDT's general development policy objectives and associated priorities.
- 2.2 At least one month before a WTDC, the Director of the BDT shall communicate to members a list of the Questions proposed, together with any changes recommended by the TDAB.

3. Approval of proposed Questions between two WTDCs

- 3.1 Between two WTDCs, administrations and other bodies authorized to participate in ITU-D activities may submit proposed Questions to the study group concerned.
- 3.2 Each proposed Question shall be accompanied by a statement of reasons justifying the proposal, stating the objective of the tasks to be performed and indicating the urgency of the study and any contacts to be established with the other two Sectors and/or other international or regional bodies.
- 3.3 If the study group concerned agrees in principle to study the proposed Question, it shall address the draft text thereof to the Director of the BDT with all the necessary information.
- 3.4 The Director of the BDT, after consultation if appropriate with the TDAB and if the schedule of meetings so permits, shall request Members to let him know within two months whether they approve or object to the study of the new Question.

- 3.5 The proposed Question shall be approved and have the same status as Questions approved at a WTDC if:
- a simple majority of all the Members respondent are in agreement;
 - and at least ten replies are received.
- 3.6 The Director of the BDT shall announce the results of the consultation in a Circular-letter. In consultation with the chairman of the study group concerned, he shall determine the implications of studying the new Question for the BDT's work programme and priorities. When it has not been possible to consult the TDAB prior to application of the procedure for approval by correspondence, the TDAB may be asked for an opinion if studying the Question is likely to have a major impact on the priorities initially adopted.

SECTION 4

Approval of new and revised recommendations

1. General

Requests for the approval of a new or revised recommendation shall normally be submitted to a WTDC. In accordance with the provisions of Article 20 of the Convention (Geneva, 1992), however, the study groups may seek the approval by members of a number of recommendations in the interval between two WTDCs with a view to meeting certain priorities.

In such cases the following rules shall apply.

2. Process

Study groups may decide that the procedure described below be applied for seeking the approval of certain draft new or revised recommendations which meet priority objectives in the context of the BDT's work programme and have developed to a mature state.

3. Prerequisites

- 3.1 At the request of a study group chairman, the Director of the BDT shall explicitly announce when convening the study group meeting that the intention is to apply the procedure for approving a recommendation. He shall state the specific purpose of the proposed text in the form of a summary when the proposed text is voluminous. In this case reference will be made to the document in which the complete text of the draft new or revised recommendation to be considered may be found.

The above information shall be disseminated to all ITU-D members.

- 3.2 Invitations to the meeting and the announcement of the approval procedure shall be sent by the Director of the BDT to all ITU-D members so as to be received in the normal course of delivery at least three months before the meeting.
- 3.3 The text of draft new or revised recommendations shall be distributed in the three working languages at least two months before the meeting.
- 3.4 Normally, the revision of a recommendation approved during a given study period should not be subjected again to the present procedure during the same study period unless the proposed revision supplements rather than amends the previous version of the text.

4. Procedure at study group meetings

- 4.1 Decisions by delegations to apply the approval procedure must be taken without opposition. Exceptionally, but only during meetings, a delegation may request more time to consider its position. Unless the Director of the BDT is informed of a formal opposition on the part of the delegation's administration within six weeks following the last day of the meeting, he shall proceed in accordance with the provisions in paragraph 5 below.
- 4.2 If a delegation elects not to oppose the approval of a text but wishes to enter reservations on one or more points, its reservations must be mentioned in the report of the meeting.

5. Consultation

5.1 Within one month following the decision of a study group to seek approval, the Director of the BDT shall request Members to inform him within three months whether they approve or object to the draft new or revised recommendation.

This request shall contain a reference to the final complete text of the new or revised draft recommendation, in the three working languages.

5.2 The Director of the BDT shall advise the Directors of the other two Bureaux, as well as other duly authorized bodies participating in the work of the study group concerned that, pursuant to Article 20 of the Convention (Geneva, 1992), he has asked Members to respond to a consultation on a draft new or revised recommendation.

5.3 The draft recommendation shall be accepted if 70% or more of the replies from Members indicate approval.

5.4 If the draft recommendation is not accepted, it shall be referred back to the study group.

5.5 Any Members who indicate disapproval are requested to state their reasons and indicate possible changes that would facilitate the future approval of the draft recommendation.

6. Notification

6.1 Within four weeks of the closing date for Members to respond to the consultation, the Director of the BDT shall indicate by Circular letter whether or not the text is approved. He shall make the necessary arrangements to ensure that this information is also included in the next available ITU Notification.

6.2 Any comments received along with responses to the consultation shall be collected by the BDT Secretariat and submitted to the next study group meeting for consideration.

6.3 The Secretary-General shall publish the approved new or revised recommendations in the working languages as soon as practicable.

SECTION 5

Support to the study groups

The Director of the BDT should ensure that, within the limits of existing budgetary resources, the study groups have appropriate support to conduct their work programmes as outlined in the terms of reference and as envisioned by the WTDC's work plan for the Sector. In particular, support may be provided in the following forms:

- a) Administrative and professional staff support.
- b) Programme financing.
- c) Coordination with regional telecommunication organizations.

RESOLUCION NO. 4

Telecommunication Policies and Strategies

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

having noted

the various Resolutions adopted by the regional telecommunication development conferences,

considering

- a) the provisions of Article 1 (Nos. 14 and 19) and Article 21 of the Constitution (Geneva, 1992);
- b) Resolution 14 of the Plenipotentiary Conference (Nice, 1989);
- c) the major role played by telecommunications in a country's economic and social development, and in particular the positive effects of a modern infrastructure on a country's economy;
- d) the considerable technological progress achieved in the telecommunication sector, especially as a result of the combination of computing and telecommunication technologies;
- e) the emergence, as a result of new technologies, of new telecommunication products and services in response to the growing diversification of customers' requirements in the economic sector, giving rise to the appearance of new suppliers and operators in the market;
- f) the need for developing countries to stimulate the development of their telecommunications by creating a modern infrastructure which is accessible to the population as a whole, while endeavouring to respond to the needs of the economic sector in terms of new or enhanced services;
- g) the amount of investments required in countries to ensure sufficiently broad and rapid development of telecommunication infrastructures and services on a national scale;
- h) the need to adapt the organization and management of telecommunication operators to the changing commercial and regulatory environment;
- i) the determinant role of a well-developed and well-structured telecommunication network for economic, social and cultural development,

recognizing

- a) that a majority of developing countries have to face particular difficulties in order to improve and develop their telecommunication networks;
- b) that situations can vary from one country to another, according to economic, social and cultural circumstances;
- c) that the state of telecommunication infrastructure development can also vary substantially from one country to another;
- d) that telecommunication policies have to be developed as part of an overall strategy of economic and social development;
- e) that market-based economic principles are playing a growing role in the development of the telecommunication sector;

f) that competitive conditions should be promoted, as far as practicable, in particular in the value-added services and terminal equipment markets;

g) that each country should adopt development strategies which take account of domestic conditions and circumstances;

h) that countries need to adopt appropriate structures and an appropriate regulatory framework in order to implement an effective telecommunication development policy;

i) that as a result of the changing technological and commercial environment of telecommunications, special attention has to be given to the development and management of human resources in order to give the operators the capabilities to face in particular more competitive markets,

recognizing further

the telecommunication provisions of the General Agreement on Trade in Services (GATS) and the related forthcoming work of the Negotiating Group on Basic Telecommunication Services,

invites

governments and administrations to take account of the following guidelines when establishing and implementing their telecommunication development policies:

A. Structure of the sector

The following reforms should be considered with a view to favouring investments, increasing operating efficiency, broadening the supply of services and improving service quality:

1. Postal and telecommunication activities should be separated, in order to enable each branch to develop the policy best suited to its own requirements;

2. The regulatory and operational functions should be separated with a view to facilitating more efficient management by operators and better reflecting customers' needs for more cost-effective services;

3. A regulatory body should be set up for the purpose of ensuring the objectivity and transparency of decisions in the regulatory area and supervising their application, having particular regard to the development, where appropriate, of competition rules;

4. Telecommunication operators should be allowed sufficient financial and management independence to enable them more easily to develop a commercial policy adapted to market requirements, while encouraging them to introduce the necessary management tools, especially for the purpose of monitoring costs and service quality;

The timing and the manner of carrying out the restructuring of the sector may vary from one country to another,

B. Regulatory framework

When establishing a telecommunication policy, decision makers should take account of the need to set up a clear, consistent and transparent regulatory framework with a view to:

- ensuring the long-term development of the telecommunication sector on a stable basis, while promoting technological innovation, infrastructure modernization, service diversification and quality of service improvement;
- promoting the provision of basic services in rural or remote areas at affordable prices;
- allowing sufficient flexibility to adapt to technological and commercial changes as well as to the growing market segmentation in the sector;

- allowing opportunities for all interested parties, including users and the private sector, to contribute into the regulatory policy-making process,

C. General policies

The main lines of general telecommunication development policy should be based on the following principal objectives:

- promoting access to basic telecommunication services to all people at an affordable price;
- encouraging the harmonized development of networks and services with a view to reducing national and regional disparities and improving the interoperability of networks worldwide;
- making available the benefits of the introduction of advanced telecommunication technologies to develop new services that meet the requirements of the economic sector;
- using appropriate technologies (such as satellites or wireless telephone networks) to introduce telecommunication services in rural and remote areas at an affordable price;
- introducing tariff reforms aimed at promoting the rational use of telecommunication networks and the provision of an efficient universal telecommunication service to foster investments, while preparing operators for a more competitive environment, taking into account that tariffs should be cost-oriented and that the geographical characteristics of countries are different;
- promoting, as far as possible, the development of local or regional telecommunication industries,

In the pursuit of these objectives, account should be taken:

- of the possible benefits to be derived from opening up to competition at least certain markets, such as value-added services, terminal equipment, services based on new technologies, etc.;
- of the desirability to achieve a balance between creating a competitive telecommunication market and reserving the supply of some services to authorized operator(s);
- of ensuring that service providers give special attention to the needs of remote and rural areas;
- of the need to develop a pool of highly-trained manpower in all aspects of the telecommunication sector;
- of the need to encourage greater R&D efforts for the development of telecommunications,

D. Funding

In order to meet the considerable investment needs arising from the development of modern telecommunication infrastructures, administrations should, in the light of their domestic circumstances and the development strategy adopted, explore every possibility of attracting investments from national savings and encouraging internal and external private participation.

In order to strengthen the present sources of funds making possible telecommunication development, it is advisable to reinvest in the telecommunication sector the totality of resources which it generates.

In the consideration of possible investment policies and techniques (such as ODA¹¹, leasing, BOT¹², joint ventures), administrations should take into account the degree of access to multilateral, bilateral and private sources of funding based on :

- status of the operator and its evolution within the framework of restructuring of the sector (privatization, joint venture, public company with autonomous management, etc.);
 - regulatory framework (appropriateness and stability);
 - tariff policies and pricing regulation;
 - degree of liberalization in regulations governing foreign investments (restrictions on foreign property and repatriation of profits, exchange control, etc.).
-

¹¹ ODA = Official Development Assistance

¹² BOT = Build-Operate-Transfer

RESOLUTION NO.5

"BUENOS AIRES INITIATIVE"

Non-Discriminatory Access to Modern Telecommunication Facilities and Services

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

taking into account

the importance of telecommunications for political, economic, social and cultural progress,

taking into account also

a) that the International Telecommunication Union plays an important role in the promotion of global telecommunication development;

b) that, to this end, the Union coordinates efforts aimed at securing harmonious development of telecommunication facilities,

taking into account further

that the Conference is required to formulate a viewpoint and draw up proposals on issues determining a worldwide telecommunication development strategy, and facilitate the mobilization of the necessary resources to that end,

noting

a) that modern telecommunication facilities and services are established, in the main, on the basis of ITU-R and ITU-T Recommendations;

b) that ITU-R and ITU-T Recommendations are the result of the collective efforts of all those taking part in the standardization process within the ITU and are adopted by consensus by the Members of the Union;

c) that limitations on the access to telecommunication facilities and services on which national telecommunication development depends and which are established on the basis of ITU-R and ITU-T Recommendations constitute an obstacle to the harmonious development and compatibility of telecommunications worldwide,

recognizing

that full harmonization of telecommunication networks is impossible unless all countries participating in the work of the Union without exception have non-discriminatory access to new telecommunication technologies and modern telecommunication facilities and services without prejudice to national regulations, and international commitments within the competence of other international organizations,

resolves

that there should be non-discriminatory access to telecommunication technologies, facilities and services established on the basis of ITU-R and ITU-T Recommendations,

instructs the Secretary-General

to transmit this Resolution to the Plenipotentiary Conference (Kyoto, 1994) for consideration,

requests the Plenipotentiary Conference

to consider this Resolution with a view to taking measures to foster global access to modern telecommunication facilities and services,

invites administrations

pending the Plenipotentiary Conference's decision, to help telecommunication equipment manufacturers and service providers in ensuring that telecommunication facilities and services established on the basis of ITU-R and ITU-T Recommendations may be generally available to the public without any discrimination.

RESOLUTION NO. 6

Cooperation Between the ITU/BDT and Regional Organizations

The World Telecommunication Development Conference, (Buenos Aires, 21-29 March 1994),

considering

a) that the Plenipotentiary Conference of the International Telecommunication Union (Nice, 1989) adopted the decision to establish the Telecommunication Development Bureau (BDT) according to the provisions of Article 14 of the Nice Constitution;

b) that the High Level Committee (HLC), which was established to review the structure and functioning of the ITU, specifically recognized that the development gap between developing and developed countries will be perpetuated or exacerbated unless the ITU plays a more focused role;

c) that the HLC recommended that the ITU should play a more clearly defined catalytic role, as envisaged in Nice Resolution No.14, by working cooperatively with international, regional and bilateral development and financing agencies, and by presenting to developing countries the range of structural and policy options that will generate greater resources for telecommunications development;

d) that the HLC recommended that the BDT, working within the Telecommunication Development Sector and collegially with the other Sectors, should ensure that the ITU's catalytic role in stimulating telecommunication development is strengthened;

e) that the world telecommunication development conferences should establish work programmes and guidelines for defining development priorities and planning BDT activities,

acknowledging

a) that regional telecommunication organizations such as APT, CITELE, CEPT, PATU, APTC, etc., are increasingly valuable to their member countries in placing regional problems in the appropriate regional perspective;

b) the value of a cooperative approach between global and regional telecommunication bodies and the need to avoid duplication of their respective activities and projects,

recognizing

a) that ministerial level decisions have been taken in some regions to call upon the regional organizations to cooperate with the ITU to accelerate the growth of telecommunications;

b) the priority issue of each region to be identified considering the relevant regional decisions, such as:

- the recognition of the principle of universal service and access as a fundamental right of all citizens, as well as the protection of users;

- the enhancement of telecommunication training opportunities as an integral part of human resources development/human resources management initiatives;

- the need for the identification of adequate financial resources from private and public sources for infrastructure development;

- the need for the ITU to provide the best guidance to administrations on the financial aspects of telecommunication systems and networks;
- the need for the establishment of working relations with non-governmental telecommunication organizations;
- the desirability of increasing and enhancing the participation of the private sector in regional telecommunication activities,
- the cessation of practices and procedures which may be detrimental to the growth and development of telecommunications; and
- the development of programmes and strategies in the field of telecommunications to take into account rapid changes in the telecommunication environment including recent trends towards privatization and liberalization,

invites

the regional telecommunication organizations to collaborate with the ITU in jointly convening regular telecommunication development coordination meetings in their respective regions,

resolves

1. to encourage the BDT to cooperate with regional telecommunication organizations to the maximum extent possible in pursuit of key ITU development objectives in the respective regions;
2. to encourage the BDT to work actively with the regional telecommunication organizations in the planning and implementation of various telecommunication projects, and the Buenos Aires Action Plan;
3. to encourage the BDT to exchange information on planned projects and activities in the respective regions so as to avoid duplication between the regional telecommunication organizations and the BDT;
4. that the ITU-D maximize the efficiency and effectiveness in the implementation of the decisions of the WTDC with the intention of avoiding duplication of efforts and ensuring the maximum participation of the respective ITU regional offices working together in harmony with the telecommunication organizations in the region;
5. that the ITU-D identify appropriate mechanisms and studies to address the priority issues as identified by the regional organizations with the intention of developing appropriate recommendations for the next WTDC;
6. to request the Secretary-General to consider this Resolution in his report to the Council (Resolution 16 of the Additional Plenipotentiary Conference, Geneva, 1992).

RESOLUTION NO.7

Disaster Communications

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

noting

the Tampere Declaration on Disaster Communications, issued by the group of experts in communications and disaster management, participating in the Conference on Disaster Communications held in Tampere, Finland, on 20-22 May 1991, annexed to this Resolution,

and noting further

a) the support which the Tampere Declaration has received from numerous national, regional and international organizations;

b) Resolution No. 209 of the World Administrative Radio Conference on Mobile Services (Mob-87) *Study and Implementation of a Global Land and Maritime Distress Safety System*;

c) the studies carried out by the Study Groups of ITU-R in response to Resolution No. 209 (Mob-87);

d) the scope of studies in Study Groups of ITU-T relevant to disaster communications and, in particular in ITU-T SGs I, II, III and IV,

recognizing

a) that disasters have caused and are likely to continue to cause severe human suffering, loss of human life and damage to property and environment;

b) that disasters may have particularly devastating consequences in developing countries;

c) that disaster preparedness requires the existence of decentralised means of communications such as, but not limited to, those provided by mobile and portable satellite terminals and by the Amateur Radio Services to supplement the vulnerable elements of the national, regional and global communication networks,

convinced

a) that the fast and efficient flow of information is essential for disaster mitigation, prevention and preparedness, as well as for disaster relief;

b) that telecommunications can play a vital role in restoring the continuity of the development process,

concerned

a) that the development process is disrupted in the event of a disaster;

b) that disaster situations, as they occur, often affect or destroy existing telecommunication facilities,

resolves

to invite the ITU-R

a) to continue studying, as a matter of priority, the technical, operational and regulatory aspects of radiocommunications for disaster mitigation and relief;

b) to consider recommending the inclusion, in the agenda of a competent World Radio Communication Conference, of consideration of the relevant provisions of the Radio Regulations concerning disaster communications;

to invite the ITU-T to study, as a matter of priority:

a) the means of facilitating efficient communications for disaster mitigation and relief;

b) charging and accounting in domestic and international disaster communications, including waiver of charges, where appropriate, and a suitable tariff structure,

instructs

the Director of the BDT to help developing countries, particularly the LDCs, prepare their telecommunication services for disasters and restore them in case of disruption,

further instructs

the Director of the BDT, within the framework of the International Decade for Natural Disaster Reduction, to help those developing countries which are particularly prone to natural disasters, in the development of early warning systems using telecommunications, including broadcast services, in the framework of the Special voluntary programme for technical cooperation,

requests

the Secretary-General to work closely with the United Nations Department of Humanitarian Affairs with a view to increasing the Union's involvement in disaster communications,

further requests

the Secretary-General to communicate this Resolution to the relevant international organizations,

invites

the United Nations Department of Humanitarian Affairs to actively contribute, in close collaboration with the ITU and in particular with the BDT, to the further development and strengthening of the disaster communication capabilities of developing countries,

urges

administrations to take all practicable steps for facilitating the rapid deployment and the effective use of telecommunication equipment for disaster relief by reducing and, where possible, removing regulatory barriers and strengthening transboundary cooperation between States.

Annex: 1

ANNEX

THE TAMPERE DECLARATION ON DISASTER COMMUNICATIONS

22 May 1991, Tampere, Finland

Purpose

1. The group of experts in communications and disaster management participating in the Conference on Disaster Communications held at Tampere, Finland, from 20-22 May 1991, declare that there is an urgent need to improve international cooperation in communications and enhance national communication capabilities in order to reduce loss of life, damage to property and livelihoods, and damage to the environment caused by disasters. For the purpose of this Declaration disasters are viewed as extreme occurrences which outstrip the ability of an affected society to cope with them. Behind these events often lie chronic problems stemming from the interaction of natural, environmental and man-made factors. In this regard the Tampere Conference welcomes the proposal for a Pilot UN Centre for Urgent Environmental Assistance to be considered at the 16th Governing Council Session of the UN Environmental Programme, Nairobi.
2. The Tampere Conference reiterates the primary responsibility of national authorities for disaster management and communications. The supportive role of international organizations in disaster management is highlighted. The Conference also recognizes the important role played by indigenous and international non-governmental organizations in disaster mitigation and relief.
3. The Tampere Conference recognizes that disasters have killed millions of people over the past 20 years alone and caused massive financial and other damage to people, property and the environment. Such disasters will continue to occur frequently around the globe, with particularly devastating consequences in the developing countries. Further efforts are required to prevent such disasters and alleviate their consequences.
4. The Tampere Conference stresses that improved flows of international information through terrestrial and satellite telecommunication technologies can assist in the prediction, monitoring and early warning necessary to prevent some of the consequences and reduce the impact of such disasters once they have occurred. There is an urgent need to improve the nature, scope and quality of information being transmitted internationally, including its validity, significance, accuracy and timeliness.
5. The critical role of the mass media in providing public information services to communities at risk is recognized, as is their broader role in education and opinion-forming, particularly with regard to slow-onset disasters.
6. Terrestrial and satellite communications, including established international satellite networks, and remote-sensing technologies, have played, and will continue to play, major roles in reducing the devastating effects of disasters by dramatically improving hazard identification and risk assessment, disaster preparedness, monitoring, early warning and onset and post-disaster relief operations. These facilities are, in practice, not universally accessible, particularly in developing countries where such disasters most frequently occur.
7. Communication links are almost always disabled and disrupted during the first hours of a major disaster. When disaster strikes, there is an urgency to establish effective and comprehensive communication links at the disaster site, between the site and the national systems for dealing with disaster response, and with the concerned international community.

8. The Tampere Conference endorses the Preamble and Major Needs identified and the Recommendations adopted at the UNDRO International Conference on Disaster Communications on 21 March 1990 and held in the context of the International Decade for Natural Disaster Reduction (IDNDR).

9. The Tampere Conference calls for the development of a Convention on Disaster Communications as elaborated further below and to be negotiated not later than 1993. This Convention should be viewed in the context of a future comprehensive accord on disaster management.

10. The Tampere Conference recognizes the urgent communication needs generated by emergency disaster relief and the longer-term needs of disaster mitigation.

Communications in Disaster Relief

11. Present limitations to disaster communications include:

- a) Organizational barriers which impede the flow of information among the various elements of the international disaster response network.
- b) Uncertainty over the availability and location of communications equipment which could be made accessible for disaster use.
- c) Regulatory barriers which slow down the importation and operation of communications equipment.
- d) High costs which inhibit the effective use of communications equipment during disasters.

12. In order to overcome these barriers, a Convention on Disaster Communications should, at a minimum:

- a) Establish an effective framework for cooperation between and among State parties, intergovernmental and regional groupings and entities, and non-governmental bodies, including international terrestrial and satellite telecommunication operating organizations and relevant commercial sector organizations.
- b) Further improve the coordination of international disaster management.
- c) Ensure the utilization to the maximum extent of existing global, regional and national terrestrial and satellite communication networks; encourage the immediate availability at national, regional and international centres of communications equipment; and encourage the development of the Amateur Radio Services and their application to disaster communications.
- d) Encourage national authorities to establish an inventory and/or database of their own communications equipment and resources relevant to disaster relief, national regulations to ensure access to them, and an appropriate national preparedness plan for their effective use.
- e) Encourage UNDRO, within the framework of the International Decade for Natural Disaster Reduction, to maintain an international inventory of communications equipment and resources and to invite national governments, intergovernmental organizations, non-governmental organizations and other relevant entities to make their own communications equipment and resources information available.
- f) Encourage improved and enhanced national and international training programmes to develop the necessary expertise in the rapidly-evolving field of disaster communications, and the further consideration of the communications issue in disaster management training programmes.

- g) Facilitate the rapid dissemination and effective use of communications equipment and resources by limiting, reducing and, where possible, removing regulatory barriers, including:
- Customs clearance procedures and duties
 - Restrictions on possession and use
 - Inappropriate restrictions on the dissemination of existing and new technical information
 - The need for type-approval procedures and operating licences, including simplification
 - National rules concerning the temporary assignment of appropriate radio frequencies.
- h) Establish appropriate further rules relating to matters such as:
- Entry, exit and transit for personnel, equipment and property
 - Direction and control of assistance
 - Confidentiality of information
 - Privileges, immunities and facilities
 - Claims and compensation.
- i) Establish the basis for an appropriate tariff structure for domestic and international communication carriers, including waiver of charge where appropriate, and the necessary philosophy and approach to payment for communication services required in disaster relief efforts.

Communications in Disaster Mitigation

13. Effective early warning systems and comprehensive databases are limited by the unequal access to communications technology, software and expertise.

14. The proposed Convention should, at a minimum, establish mechanisms for international cooperation in the use of terrestrial and satellite telecommunication technologies in the prediction, monitoring and early warning of disasters, especially the early dissemination of information to those in the at-risk communities.

The Way Forward

15. The Tampere Conference recommends that no later than 1993 an intergovernmental conference be convened under the auspices of UNDRO to prepare for the negotiation of an International Convention on Disaster Communications to establish appropriate mechanisms to improve international cooperation. This conference should be complementary to envisaged inter-governmental action to facilitate the use of communications equipment for disaster relief and to the global meeting of IDNDR National Committees proposed for 1993.

16 To carry through the above suggestions - the enhancement and improvement of disaster communications - will require a realistic financial commitment from the international community, including governments, international organizations, donor organizations, non-governmental organizations and the private sector.

17. The proposed Convention should take account of existing provisions and proposals, including Resolution No. 209 of the World Administrative Radio Conference for the Mobile Services, Mob-87 (Geneva, 1987) on the Study and Implementation of a Global Land and Maritime Distress and Safety System.

18. The development of the proposed Convention on Disaster Communications should be coordinated by UNDRO, in cooperation with the ITU and other relevant organizations, including international terrestrial and satellite telecommunication operating organizations.

19. Recognizing that the development of such a Convention will take time, the Tampere Conference calls upon all States to consider urgent measures to give effect to the provisions of this Declaration on an interim unilateral or bilateral basis for general humanitarian reasons.

20. The Tampere Conference recommends that, consistent with the goals and objectives of the International Decade for Natural Disaster Reduction, the UN Disaster Relief Coordinator should take the appropriate steps to implement the intent of this Declaration with the support of, and in consultation with, other concerned bodies of the UN system, international terrestrial and satellite telecommunication operating organizations and non-governmental organizations.

21. The Tampere Conference recommends that this Declaration be circulated to governments, intergovernmental organizations and non-governmental organizations, and in appropriate international fora, such as the November 1991 International Red Cross Conference and the June 1992 UN Conference on Environment and Development, and be considered in the relevant activities of concerned organizations and institutions at the international, regional and national levels.

22. The Tampere Conference expresses its gratitude to the Government of Finland and the City of Tampere for hosting the Conference; to the International Institute of Communications for convening it; to the Aamulehti Group Ltd. and The Annenberg Washington Program in Communications Policy Studies of Northwestern University for their support; to UNDRO, the ITU, UNHCR, WMO, WHO and the League of Red Cross and Red Crescent Societies for their support; to the Post and Telecommunications of Finland, the Centre for Public Service Communications, and the Centre for International Environmental Law for their assistance; and to all those present for their participation.

RESOLUTION NO. 8

Telecommunication Support for the Protection of the Environment

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

considering

a) that telecommunication and information technologies have an important role to play in protecting the environment and in promoting development activities at low risk to the environment;

b) that application of the latest telecommunication and information technologies, especially those associated with space systems, can be extremely useful in implementing and conducting environment protection activities such as monitoring air, river, harbour, and sea pollution, remote sensing, wildlife studies, forestry development, and others;

c) that the application of telecommunication technology can reduce paperwork which ultimately saves forests;

d) that telecommunication and information technologies respect the environment, and that the related industries can be located in rural areas in order to reduce urban congestion;

e) that there is a need to disseminate information on these aspects, as stated in the Rio Declaration on Environment and Development, Agenda 21,

resolves

to promote the application of telecommunication and information technologies for protecting the environment,

requests

the ITU/BDT, in collaboration with international and regional organizations:

1. to prepare a policy document for promoting the use of telecommunication, information and space technologies for applications devoted to the protection of the environment;

2. to disseminate information on applications of telecommunication and information technologies for the protection of the environment;

3. to organize seminars, training programmes, exhibitions and other similar activities to meet these objectives;

4. to create appropriate course material for conducting training programmes on the subject;

5. to conduct studies in selected areas (e.g., transport, forestry, river, harbour and sea pollution, wildlife migration, etc.) for evaluating and highlighting the advantages of telecommunication applications,

further requests

the Plenipotentiary Conference (Kyoto, 1994) to endorse the principles of this Resolution and to instruct the ITU Sectors on the measures they should adopt for its application.

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RESOLUTION NO.9

Membership, Rules of Procedure and Working Methods of the Telecommunication Development Advisory Board

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

considering

- a) Article 18 of the Convention (Geneva, 1992) concerning the Telecommunication Development Advisory Board (TDAB);
- b) the need to define clear working procedures to review strategies and priorities in telecommunication development activities and to advise the Director of the BDT in this field;
- c) the desirability of broad-based participation of administrations, duly authorized entities and organizations in the TDAB activities,

recognizing

that the main tasks of the TDAB are to advise the Director on priorities and strategies in the Union's telecommunication development activities and to recommend steps to foster cooperation and coordination with other organizations interested in telecommunication development, as well as:

- a) to review strategies and priorities for activities in the ITU-D, to review progress in the implementation of study group work programmes and to provide guidelines for their work;
- b) to help in raising the awareness of decision makers regarding the importance of telecommunications in the socio-economic development of nations;
- c) to encourage the participation of industry, telecommunication operators and service providers, bilateral and multilateral organizations and financial institutions to promote telecommunication development in developing countries;
- d) to assist in the decisions on, and mobilization of resources for, pre-investment and investment activities in the telecommunications field,

resolves

1. that the TDAB shall hold regularly scheduled meetings included in the ITU-D timetable of meetings and announced in accordance with paragraph 6.2 of section 1 of the annex of Resolution No. 3 on Procedures to be Applied by the Study Groups. Its meetings should take place at least once a year;
2. that the TDAB shall prepare a report of its activities after each meeting to be distributed in accordance with normal ITU-D procedures, and a report to the WTDC following its last meeting prior to the Conference. The report to the WTDC should summarize the TDAB's activities and offer advice on relations with other relevant bodies inside and outside the ITU, as appropriate;
3. that the chairmen and vice-chairmen of the study groups established by the WTDC shall attend the meetings of the TDAB as ex-officio members,

instructs

the Director of the BDT to consider the possibility to open the membership of the TDAB to additional entrants representing administrations and entities including representatives of bilateral cooperation or development aid agencies and multilateral development institutions, in order to reflect the new tasks allocated to the TDAB following the establishment of study groups and the setting up of work programmes for the period 1994-1998;

recommends

to the Plenipotentiary Conference (Kyoto, 1994) that it consider the possibility of revising in particular Article 18, No. 227 of the Convention (Geneva, 1992) in order to permit implementation of this Resolution.

RESOLUTION NO. 10

Coordination of the Advisory Bodies

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

considering

- a) the necessity of continuous coordination and exchange of views between the different Sectors and the General Secretariat of the ITU;
- b) the need to create a forum for an exchange of views at the highest possible level within the ITU;
- c) the need to create a Board of Advisors to act as a consultative body to the Council,

resolves

that in conformity with No. 119 of the Constitution (Geneva, 1992), the Secretary-General should convene an annual joint meeting of:

- the World Telecommunication Advisory Council
- the Telecommunication Standardization Advisory Group
- the Radiocommunication Advisory Group
- the Telecommunication Development Advisory Board

and requests the Directors of the Bureaux of the three Sectors to coordinate with the Secretary-General the dates of the meetings of their respective advisory bodies in order to minimize the repercussions on the activities of administrations.

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RESOLUTION NO. 11

Venue of the Regional Telecommunication Development Conferences

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

considering

that the regional telecommunication development conferences are an important contribution to international cooperation, harmonizing and furthering the development of telecommunication facilities and services,

recognizing

a) that the developing countries which have hosted regional conferences agree that the conferences represent an instrument for social, economic and technological development, and that they are also a means of promoting the countries on a worldwide basis;

b) in particular that efforts towards the development of telecommunications should be addressed mainly to developing countries,

resolves

that regional conferences should preferably be held in developing countries.

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RECOMMENDATION NO. 1

Application of Telecommunications to Health and Other Social Services

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

considering

- a) that many developing countries need significant support in order to benefit from the application of telecommunications in specific priority areas;
- b) that telecommunication technologies can play a vital role in improving the productivity and efficiency of many social services and activities such as health, education, trade, tourism and others;
- c) that the application of telecommunication technologies is very useful in providing universal access to health care and in saving human lives;
- d) that the strategies indicated by the Telecommunication Development Advisory Board in its report "Partners in development, Telecommunications - The first link" aim at diminishing the deficiencies in health care, education, etc.;
- e) that the World Health Organization is encouraging the achievement of the "Health for All" programme by the end of the millennium, and the uses of informatics and telematics to support health care services,

recommends

that the ITU/BDT

1. encourage and support studies concerning specific applications of telecommunication in sectors of great importance for social life, health, education, etc., such as telemedicine;
2. plan and implement appropriate projects for promoting the application of telecommunication technologies in social services, in particular health care, in cooperation with international and regional organizations;
3. disseminate information concerning the results of studies and projects in these areas;
4. encourage the extension of the application of telecommunications in social services, undertaking specific studies for quantifying the advantages of those applications.

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RECOMMENDATION NO. 2

Development Partnership with International Education Agencies

The World Telecommunication Development Conference (Buenos Aires, 21-29 March 1994),

noting

a) the Secretary-General's guidelines for the preparation of the Conference (Annex 4 to his letter of 26 July 1993) which includes consideration of "... the potential contribution and impact of new telecommunication ... by facilitating networking of research and training centres, academic institutions, etc.";

b) the recommendation of the World Telecommunication Advisory Council of the ITU to place more emphasis on the social benefit applications of telecommunications in areas such as education and medical services;

c) the recommendations of the ITU High Level Committee and the provisions of the ITU Constitution and Convention (Geneva, 1992) mandating the ITU, and in particular the Telecommunication Development Bureau (BDT), to cooperate with other organizations in the telecommunication and development fields,

considering

a) that telecommunication and communication and information technologies are playing an increasingly important role in the public domain, especially in relation to the delivery of such public services as health, education and information;

b) that the delivery of such public services as health, education and information is an important element of national infrastructure which in turn can have a profound effect on national growth, productivity and overall economic development;

c) that the field of education and training or what can be generally termed human resources development is an excellent example of an area in the public domain which is a critical part of overall economic development, particularly in the developing world;

d) that modern communication and information technologies, through the techniques associated with "open learning" and "distance learning", have become a principal means of improving the quality and cost effectiveness of education, both inside and outside the traditional classroom;

e) that international organizations involved in the field of distance learning are prepared to cooperate with the ITU in furthering the use of telecommunications in education,

recognizing

a) the need to realize the full potential of information technologies in the field of education in order for the international community to respond to the challenges of development;

b) the uneven level of telecommunication development internationally which has had a constraining effect on those countries and regions where, due to distances or small populations, there is little or no access to conventional education or training;

c) the synergy which can result from a formal dialogue between the telecommunication and education communities with respect to their common interests and goals for the effective use of telecommunications for educational purposes;

d) the willingness of the education community to work internationally to provide advice and guidance on the use of telecommunications in the field of education,

invites

Members

1. to recognize the needs of the education community and to take them into account in their network planning, both for network extension and for service development;

2. to work with organizations representing the education community to articulate their needs and requirements in relation to telecommunication technology,

requests

the BDT to establish and strengthen mechanisms for representatives of international education agencies to offer their advice and expertise on the use of telecommunications in support of education, in particular on:

1. continuing efforts to make affordable and effective telecommunications available within the world community on as universal a basis as possible;

2. promoting awareness, through ongoing information activities and special events, of the value of telecommunication systems and services for public education and training, and to inform policy-makers of the need for resources to be devoted to the effective use of technology in this field;

3. encouraging efforts to ensure that the ongoing liberalization of telecommunication markets and tariff structures benefits all sectors of the user community, including public domain activities such as education,

further requests

the BDT to invite representatives of international education agencies to participate directly and indirectly in the work of the development study groups and the work programme of the BDT,

urges

the members of the ITU-D and other Sectors of the ITU:

1. to join with agencies involved in the various dimensions of educational communications, such as COL, CIFFAD, CREAD and UNESCO¹³, to share knowledge and resources and to develop common strategies for the more effective use of telecommunication technologies, and in that respect

2. to facilitate the holding of an international round table of high level representatives of the telecommunication and education communities as proposed by COMRED¹⁴ to formulate strategies for enhancing the use of telecommunication systems and services for distance learning,

instructs

the Director of the Telecommunication Development Bureau to transmit this Resolution to the Directors of the Telecommunication Standardization and Radiocommunication Bureaux for appropriate consideration in the work of the other ITU Sectors.

¹³ COL = The Commonwealth of Learning

CIFFAD = Consortium international francophone de formation à distance

CREAD = Consortium des réseaux d'éducation à distance des Amériques

UNESCO = United Nations Educational, Scientific and Cultural Organization.

¹⁴ COMRED = Concertation mondiale des réseaux d'éducation à distance.

ANNEXES

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Buenos Aires, 21-29 March 1994

PROGRAMME

Monday 21.3	Tuesday 22.3	Wednesday 23.3	Thursday 24.3	Friday 25.3	Saturday 26.3	Monday 28.3	Tuesday 29.3
08.00 Registration of Delegates 09.00 Meeting of the TDAB¹ 10.00 Meeting of Heads of Delegation 11.30 Seating of Delegates in Room Libertador 11.50 Closing of the room for security purposes 12.00 Inaugural Ceremony -Address by the Secretary-General of the ITU -Address by the Vice-President of the United States of America -Address by the President of the Argentine Republic	09.00 Second Plenary meeting Ministerial statements (cont'd)	08.30 Special session by the World Bank 09.30 Fourth Plenary meeting Statements by distinguished personalities (end)	08.00² 09.00 Sixth Plenary meeting Introduction of proposals (cont'd) 11.00 Committee work (3, 4)	08.30 Special Session Progress and new studies in television broadcasting of interest to the developing countries 09.00 Committee work (3, 4) (cont'd) Working Group LDCs / Rural	09.00 Seventh Plenary meeting - Introduction of proposals (cont'd) - Consideration of proposals	08.15 Special session on ITU-R Study Group activities 09.00 Eighth Plenary meeting Buenos Aires Action Plan	09.00 Eleventh Plenary meeting - Report of the Budget Control Committee - Buenos Aires Action Plan (cont'd) 10.30 Meeting of Heads of Delegations
13.40 Lunch / Press conference	12.30 Lunch	12.30 Lunch	12.30 Lunch	12.30 Lunch	12.30 Lunch	12.30 Lunch	12.30 Lunch
14.30 First Plenary meeting - Election of WTDC Chairpersons - Adoption of the WTDC work programme and structure <i>Agenda item 1 - Analysis of the situation of telecommunication development</i> - Overview by BDT - Introduction of the WTDR ³ <i>Agenda item 2 - Global goals and objectives</i> Ministerial statements 18.00 Steering Committee	14.30 Third Plenary meeting - Ministerial statements (end) - Statements by distinguished personalities 18.00 Budget Control Committee 18.00 Presentation of the WTDR 18.00 STARS Telecom indicators database	14.30 Fifth Plenary meeting <i>Agenda items 3 and 4 - Recommended approaches for telecommunication development - Special programme for the Least Developed Countries (LDCs)</i> - Report by the Director of the BDT - Message from the TDAB - Policy perspectives on the role of the ITU in development - New initiatives to foster telecommunication development in the LDCs - Introduction of proposals including the draft Buenos Aires Action Plan 18.00 TIES ITU Telecommunication Information Exchange Services	14.30 Committee work (3,4) (cont'd) 18.00 Steering Committee 18.00 Demonstration of TBT (including CBT)⁴	14.30 Committee work (3, 4) (cont'd) 18.00 Demonstration of Tele-Health Care	14.30 Committee work (3, 4) (cont'd) Working Group LDCs / Rural 18.00 Budget Control Committee 20.00 Tenth Plenary meeting - Buenos Aires Action Plan (cont'd) - Draft Resolutions (cont'd)	14.30 Ninth Plenary meeting <i>Agenda item 5 - Work programme for the BDT</i> - Buenos Aires Action Plan (cont'd) - Organization of work - Draft Resolutions 18.00 Budget Control Committee 20.00 Tenth Plenary meeting - Buenos Aires Action Plan (cont'd) - Draft Resolutions (cont'd)	14.30 Twelfth Plenary meeting - Presentation and adoption of the Buenos Aires Declaration and Action Plan as well as other Resolutions and Recommendations - Election of Chairpersons of Study Groups Closure of the Conference

¹TDAB= Telecommunication Development Advisory Board²Special meeting *Be a member - be a partner: the benefits of joining the ITU*³WTDR = World Telecommunication Development Report⁴CBT= Computer-Based Training, TBT= Technology-Based Training

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ANNEX II

WORLD TELECOMMUNICATION DEVELOPMENT CONFERENCE
Buenos Aires, 21-29 March 1994

LIST OF PARTICIPANTS

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DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Albanie (République d')

Albania (Republic of)

Albania (República de)

M. QESTERI Emil (C)

Director
Albanian PTT Administration
Ministry of Transport and Communications
"Seremedin Seid Toptani" Street 2
TIRANA
Tel: +355 42 23548
Fax: +355 42 33546

Algérie (République algérienne démocratique et populaire)

Algeria (People's Democratic Republic of)

Argelia (República Argelina Democrática y Popular)

M. BELGAID Belkacem (C)

Chargé d'affaires
Ambassade d'Algérie
Montevideo 1889
BUENOS AIRES - Argentina

M. HAMZA Ali (CA)

Conseiller/ Cabinet du Ministre
Ministère des Postes et Télécommunications
4, Bd Krim Belkacem
ALGER 16 000
Tel: +213 2 711220
Fax: +213 2 615864

M. BENCHEIKH EL HOCINE Lofti (D)

Ambassade d'Algérie en Argentine
Montevideo 1889
BUENOS AIRES - Argentina
Tel: +213 2 610210

M. DRICI Hamidouche (D)

Ingénieur
Ministère des Postes et Télécommunications
4, Bd Krim Belkacem
ALGER 16000
Tel: +213 2 767492

M. FARAOUN Boualem (D)

Directeur des transmissions nationales
Ministère des postes et télécommunications
4, Bd Krim Belkacem
ALGER 16000
Tel: +213 2 614642
Fax: +213 2 641076

M. KEHILI Ahmed (D)

Conseiller/Cabinet Ministre
Ministère des Postes et Télécommunications
4, Bd Krim Belkacem
ALGER 16 000
Tel: +213 2 711220
Fax: +213 2 615864

M. KICHOU Chérif (D)

Chef, Bureau Techniques Nouvelles
Ministère des postes et télécommunications
4, Bd Krim Belkacem
ALGER 16000
Tel: +213 2 614642
Fax: +213 2 641076

Allemagne (République fédérale d')

Germany (Federal Republic of)

Alemania (República Federal de)

M. LAUFS Paul (C)

Parliamentary State Secretary
Federal Ministry of Posts and Telecommunications
P.O. Box 8001
53105 BONN
Tel: +49 228 145520
Fax: +49 228 149818

M. MOHR Ulrich (CA)

Commissioner for international relations
Federal Ministry of Posts & Telecommunications
Postfach 8001
53105 BONN
Tel: +49 228 142000
Fax: +49 228 146201

M. ELIAS Dietrich (D)

President and TDAB Member
DETECON - Deutsche Telepost - Consulting GmbH
Langer Grabenweg 35 - P.O.Box 26 01 01
53153 BONN
Tel: +49 228 817300
Fax: +49 228 817199

M. GREWLICH Klaus W. (D)

Director General, International Affairs
Deutsche Bundespost Telekom Generaldirektion
Postfach 2000
53105 BONN
Tel: +49 228 1819340
Fax: +49 228 1818927

M. LUTZ Manfred (D)

Assistant Director
Deutsche Bundespost Telekom
Fachbereich 031 - Postfach 2000
53105 BONN 1
Tel: +49 228 1819349
Fax: +49 228 1819397

M. OBERMÜLLER Heinz (D)

Director
Federal Ministry of Economic Cooperation and Development
53045 BONN
Tel: +49 228 535338
Fax: +49 228 535202

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Allemagne (République fédérale d') Germany (Federal Republic of) Alemania (República Federal de)

M. PLESSE Dietmar (D)

Executive Officer, European Affairs of Telecom. & Techn.
Cooperation
Bundesministerium für Post und Telekommunikation
Postfach 80 01
53105 BONN
Tel: +49 228 142023
Fax: +49 228 146202

M. SCHADE Ulrich (D)

Executive Director, Transmission System Division
SIEMENS A.G.
Hofmannstr. 51
81359 MÜNCHEN
Tel: +49 89 72248700
Fax: +49 89 72247062

M. SCHLOLAUT Rüdiger (D)

Director
DETECON - Deutsche Telepost - Consulting GmbH
P.O. Box 260101
53153 BONN
Tel: +49 228 817230
Fax: +49 228 817199

M. TAUFMANN Gernot (D)

Deputy Director International Affairs
Ministry of Post & Telecommunications
G.D. DBP Telekom - Postfach 2000
53105 BONN
Tel: +49 228 1819327
Fax: +49 228 1819395

M. WITTKI Bernd (D)

Assistant Director, Training Programmes
Deutsche Bundespost Telekom
Fachbereich 725 - Postfach 2000
53105 BONN
Tel: +49 228 1817208
Fax: +49 228 1818909

M. ZISS Friedrich (D)

Director Microwave Systems
ANT Nachrichtentechnik GmbH / Bosch TELECOM
P.O. Box 3000
71520 BACKNANG
Tel: +49 7191 132303
Fax: +49 7191 132419

Arabie saoudite (Royaume d') Saudi Arabia (Kingdom of) Arabia Saudita (Reino de)

M. AL BASHEER Sami S. (C)

Director General International Relations and TDAB Member
Ministry of Post, Telegraph & Telephone
RIYADH 11112
Tel: + 966 1 4637100
Fax: +966 1 4032048

M. AL-FEHAID Abdulrahman (CA)

Director General of Long Distance Dep.
Ministry of Post, Telegraph & Telephone
RIYADH 11112
Tel: +966 1 4637888
Fax: +966 1 4042200

Argentine (République) Argentine Republic Argentina (República)

M. GONZALEZ Oscar Felix (C)

Subsecretario de Comunicaciones
Subsecretaría de Comunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3120623

M. AGUIAR Henocho (CA)

Director
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3137078
Fax: +54 1 3124511

M. CARRIL Héctor M. (CA)

Director
Comisión Nacional de Telecomunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3137078
Fax: +54 1 3124511

M. COLOME Rinaldo A.L. (CA)

Presidente
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3137078
Fax: +54 1 3124511

M. DOOR Roberto (CA)

Director
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3137078
Fax: +54 1 3124511

M. KILLIAN Carlos (CA)

Director
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
BUENOS AIRES

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Argentine (République) Argentine Republic Argentina (República)

M. SALMUN Isaac (CA)

Director
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3137078
Fax: +54 1 3124511

Mme ALBARRACIN Julia (D)

Abogado asesor
Comité Federal de Radiodifusión
Suipacha 785
BUENOS AIRES
Tel: +54 1 3944320
Fax: +54 1 3944320

Mme ALLERAND Mariana (D)

Gerencia Normas Regulatorias
Comisión Nacional de Telecomunicaciones (CNT)
Perú 502
BUENOS AIRES
Tel: +54 1 3346183
Fax: +54 1 3346183

M. CARUSO Jorge (D)

Asesor Presidencia CNT
CNT
Maipu 103
BUENOS AIRES
Tel: +54 1 3139999

M. CATALAN Roberto (D)

Jefe Departamento Control Legal
Comisión Nacional de Telecomunicaciones (CNT)
Sarmiento 151, Oficina 419
BUENOS AIRES
Tel: +54 1 3430960

Mme DALLORSO María Eugenia (D)

Ingeniera
Subsecretaría de Comunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3120623

M. DE LA PEÑA Norberto (D)

Director General de Programación y Desarrollo
Comité Federal de Radiodifusión
Suipacha 765, 9o. Piso
1008 BUENOS AIRES

M. DEGIAMPIETRO Emilio Ricardo (D)

Coronel (Ingeniero Electrónica)
Ejército
Azopardo 250, 200 Piso
BUENOS AIRES
Tel: +54 1 3312244

Mme FABRO Patricia (D)

Primer Secretario de Embajada
Reconquista 1088 - 7 Piso
BUENOS AIRES
Tel: +54 1 3110071

M. FIGUEROA Federico Rodolfo (D)

Asesor
Subsecretaría de Comunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3120623

M. FLAMINIO Rubén (D)

Gerente Interino de Control
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
BUENOS AIRES

Mme FLEITAS Rosaura (D)

Ministerio de Comunicaciones
Gurruchaga 2431, 3oB
BUENOS AIRES
Tel: +54 1 726186

M. GABRIELLI Alberto (D)

Secretary-General and TDAB Member
Comisión Nacional de Telecomunicaciones
Sarmiento 151, piso 4 - of. 439
BUENOS AIRES
Tel: +54 1 4474320/3128871
Fax: +54 1 3122974/8037856

M. GALANO Miguel (D)

Gerente de Ingeniería
Ministerio de Economía
Perú 562
BUENOS AIRES

M. GARCIA-SANTOS Eugenio (D)

Consejero
Ministerio de Relaciones Exteriores
Reconquista 1088
BUENOS AIRES
Tel: +54 1 3110071

M. GIUNTA Rodolfo Pedro (D)

Consultor
Ministerio de Relaciones Exteriores
Reconquista 1088
BUENOS AIRES
Tel: +54 1 3110071

M. GONZALEZ Oscar Martin (D)

Relaciones Internacionales
Subsecretaría de Comunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3120623

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Argentine (République) Argentine Republic Argentina (República)

Mme HERRERA Alejandra (D)

Coordinadora
Fondo Tecnológico Argentino
Bartolemé-Mitre 326, Oficina 209 bis
BUENOS AIRES
Tel: +54 1 3340922

M. JASKELIOFF Carlos (D)

Asesor
Subsecretaría de Comunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3120623

M. KATZUDA Eduardo (D)

Asesor Presidencia
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
BUENOS AIRES
Tel: +54 1 3139999
Fax: +54 1 3123558

Mme LARRAURI María Gabriela (D)

Jefe, Dpto. de Normas Regulatorias
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
BUENOS AIRES

M. MARQUEZ José María (D)

Jefe, Dpto. Políticas de Competencia
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
BUENOS AIRES
Tel: +54 1 3436183
Fax: +54 1 3436183

M. MARTINEZ Oscar Ariel (D)

Asesor
Subsecretaría de Comunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3120623

M. MARTINO Melchor (D)

Asesor
Subsecretaría de Comunicaciones
Perú 103, Piso 5
BUENOS AIRES
Tel: +54 1 3121934

M. MICCELLI Mario (D)

Comisión Nacional de Telecomunicaciones (CNT)
Asuntos Satelitales
Perú 103
BUENOS AIRES

M. NAME Antonio (D)

Relaciones Públicas
Comisión Nacional de Telecomunicaciones (CNT)
Perú 103
BUENOS AIRES

M. OBLIGADO NAZAR Alberto (D)

Comisión Nacional del Espacio
BUENOS AIRES

M. PARDIÑAS Ricardo (D)

Licenciado
Subsecretaría de Comunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3120623
Fax: +54 1 3124511

M. RACHID José Luis (D)

Asesor de Gabinete
Cancillería Argentina
Reconquista 821
BUENOS AIRES
Tel: +54 1 3224253

M. SANCHEZ Carlos P. (D)

Asesor
Auditoría General de la Nación
Hipólito Yoigayen 1236
BUENOS AIRES
Tel: +54 1 4120827

Mme SERATTI Lidia (D)

Director de Trámites y Normas
Subsecretaría de Informática y Desarrollo
Av. Córdoba 831 Piso 5
1054 BUENOS AIRES
Tel: +54 1 3127513
Fax: +54 1 3117990

M. TABOADA Jorge Alberto (D)

Gerente Interino de Asuntos Internacionales
Comisión Nacional de Telecomunicaciones
BUENOS AIRES

M. TERAN Ricardo (D)

Ingeniero
Subsecretaría de Comunicaciones
Perú 103
1067 BUENOS AIRES
Tel: +54 1 3120623

M. TUFÍÑO Gustavo (D)

Armada Argentina
Comodoro Py 2055
BUENOS AIRES
Tel: +54 1 3135623

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Argentine (République)
Argentine Republic
Argentina (República)**

M. VALORIO Juan José (D)
Gerencia de Ingeniería
Comisión Nacional de Telecomunicaciones (CNT)
Sarmiento 151
BUENOS AIRES
Tel: +54 1 3129947
Fax: +34 1 3127458

**Australie
Australia
Australia**

M. HUTCHINSON Mike (C)
Deputy Secretary
Department of Communications and the Arts
GPO Box 2154
CANBERRA A.C.T. 2601
Tel: +61 6 2747583
Fax: +61 6 2791077

M. HEYWARDS Peter (D)
First Secretary, Australian Embassy, B.A.
Australian Embassy
Avenida Santa Fé, 846 Piso 8 (Swissair Building)
BUENOS AIRES - Argentina
Tel: +54 1 3126841
Fax: +54 1 3111219

M. SCOBLE Robert (D)
Telstra Representative - Malaysian Office
Telstra Corporation
KUALA LUMPUR - Malaysia
Tel: +60 3 2016666
Fax: +60 3 2016667

M. STANTON John (D)
Manager, International Facilities and Organisations
Telstra Corporation
231 Elizabeth Street
SYDNEY, NSW, 2001
Tel: +61 2 2875571
Fax: +61 2 2875616

**Autriche
Austria
Austria**

Mme MOYA-GOTSCH Maria-Christine (C)
Counsellor
Austrian Embassy
Calle Frances 3671
1425 BUENOS AIRES - Argentina
Tel: +54 1 8027195
Fax: +54 1 8054016

**Bahamas (Commonwealth des)
Bahamas (Commonwealth of the)
Bahamas (Commonwealth de las)**

M. BETHEL Leander (C)
Assistant General Manager - Network Services
BATELCO
John F. Kennedy Drive - P.O. Box N3048
NASSAU
Tel: +1 809 3234911
Fax: +1 809 3260880

Mme PINDER Deirdre D. (D)
Financial Controller
BATELCO
John F. Kennedy Drive - P.O. Box N3048
NASSAU
Tel: +1 809 3280920
Fax: +1 809 3235481

**Bangladesh (République populaire du)
Bangladesh (People's Republic of)
Bangladesh (República Popular de)**

S.E. M. TARIQUL Islam (C)
Minister of Posts & Telecommunications
Ministry for Posts and Telecommunications
DHAKA
Tel: +880 2 831480
Fax: +880 2 832577

M. RAHMAN Azizur (CA)
Chief, Planning
Ministry of Posts & Telecommunications
DHAKA
Tel: +880 2 831480
Fax: +880 2 832577

M. RAHMAN Fazlur (D)
Chairman
Bangladesh Telegraph & Telephone Board
36/1 Mymensingh Road
DHAKA
Tel: +880 2 831500
Fax: +800 2 832577

**Barbade
Barbados
Barbados**

M. DENNY Chelsea (C)
Senior Telecommunications Officer
Herbert House Annex, Fontabelle
ST. MICHAEL
Tel: +809 4262669
Fax: +809 4310121

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Bélarus (République du)

Belarus (Republic of)

Belarús (República de)

S.E. M. GRITSUK Ivan (C)

Minister of Posts and Telecommunications
Ministry of Posts, Telecommunications and Informatics
10, F. Skarina Ave.
MINSK 220050
Tel: +7 0172 273861
Fax: +7 0172 260848

M. GARSHIN Igor (D)

Head of Department
Ministry of Posts, Telecommunications and Informatics
10, F. Skarina Ave.
MINSK 220050
Tel: +7 0172 261414
Fax: +7 0172 260848

Belgique

Belgium

Bélgica

M. DE LAUWER Guy (C)

Consejero Económico
Embajada de Bélgica en Argentina
Defensa 113, Piso 8
BUENOS AIRES - Argentina
Tel: +54 1 3310066

Bénin (République du)

Benin (Republic of)

Benin (República de)

S.E. M. FRANCISCO Marius (C)

Ministre de la Culture et des Communications
Ministère de la Culture et des Communications
B.P. 120
COTONOU
Tel: +229 315729
Fax: +229 315931

M. VIGNON Honoré (CA)

Directeur général adjoint
Office des Postes et Télécommunications (OPT)
B.P. 5959
COTONOU
Tel: +229 312045/47
Fax: +229 313843

M. AGNAN Barthelemy (D)

Sous-Directeur des Telecom. chargé du réseau national
Direction générale de l'OPT
B.P. 5959
COTONOU
Tel: +229 313939
Fax: +229 313843

Bhoutan (Royaume du)

Bhutan (Kingdom of)

Bhután (Reino de)

M. DORJI Tshering (C)

Director Head of Telecom
Ministry of Communications
Division of Telecommunications - P.O. Box 134
THIMPHU
Tel: +975 22125
Fax: +975 23041

Bolivia (République de)

Bolivia (Republic of)

Bolivia (República de)

M. CAMPERO PAZ Raul (C)

Director General de Telecomunicaciones
Dirección General de Telecomunicaciones
Palacio de Comunicaciones - Piso 14
LA PAZ
Tel: +591 2 368788
Fax: +591 2 392924

M. ORTIZ LEMA Luis Fernando (CA)

Consejero Embajada de Bolivia
Embajada de Bolivia
Corrientes 545
BUENOS AIRES - Argentina
Tel: +54 1 3946042
Fax: +54 1 3220371

Brésil (République fédérative du)

Brazil (Federative Republic of)

Brasil (República Federativa del)

M. JARDIM Jorge (C)

Secretario Ejecutivo
Ministry of Communications
Esplanada dos Ministérios
Bloco R, Ed. Anexo, 3 andar
70044 BRASILIA
Tel: +5561 2186301

M. DA SILVA Adyr (CA)

President
Telebras
SAS Q.06 - Bloco E - 10 Andar
70044 BRASILIA
Tel: +5561 2152120
Fax: +5561 2152232

Mr. RANGEL DE ALBURQUERQUE SA Ronaldo (CA)

Director
Ministry of Communications
Esplanada dos Ministerios - B1 "R" - Anexo B - Sala 302 Oeste
70044-900 BRASILIA DF
Tel: +55 61 218 6630
Fax: +55 61 224 4749

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Brésil (République fédérative du)
Brazil (Federative Republic of)
Brasil (República Federativa del)**

M. ABRANTES ALVES Wilson (D)
CCO Telecommunications Co.
Rua Guajajaras 410 14o. andar
BELO HORIZONTE
Tel: +55 31 2735767
Fax: +55 31 2733006

M. CALVO MARCONDES Luiz Otávio (D)
Telebras
SAS Q.06 - Bloco E - 4 Andar
70313 BRASILIA
Tel: +55 61 2152130
Fax: +55 61 2152205

M. DE LIMA LEAL Hélio (D)
Head of the Division of International Cooperation
Telebras
SAS Q.06 - Bloco H - 6 Andar
70313 BRASILIA
Tel: +55 61 2152188
Fax: +55 61 2252922

M. MOREIRA SAPHA Flávio (D)
Ministry of Communications
Esplanada dos Ministérios
Bloco R, Ed. Anexo, 3º andar
70044 BRASILIA

M. NAVARRO GUERREIRO Renato (D)
Secretario de Servicios de Comunicaciones
Ministry of Communications
Esplanada dos Ministérios
Bloco R, Ed. Anexo, 3º andar
70044 BRASILIA

M. PINHEIRO Savio (D)
Director, Telecom Government Relations
Motorola
Ed. Trade Center, Sala 208
70044-900 BRASILIA DF
Tel: +55 61 3221572
Fax: +55 61 2237433

**Brunéi Darussalam
Brunei Darussalam
Brunei Darussalam**

S.E. M. DATO HAJI ZAKARIA Sulaiman (C)
Minister of Communications
Ministry of Communications
Old Airport, Berakas
BANDAR SERI BEGAWAN 1150
Tel: +673 2 242526
Fax: +673 2 220127

M. PENGIRAN HAJI SHAHMINAN Ismail (CA)
Acting Director of Telecommunications
Jabatan Telekom Brunei, Ministry of Communications
Old Airport, Berakas
BANDAR SERI BEGAWAN 2051
Tel: +673 2 242324
Fax: +673 2 220445

M. DEREK WONG (D)
Senior Officer
Ministry of Communications
Old Airport, Berakas
BANDAR SERI BEGAWAN 1150
Tel: +673 2 242526
Fax: +673 2 220127

M. PENGIRAN HAJI MOHD Zain (D)
Acting Senior Telecom Engineer
Jabatan Telekom Brunei, Ministry of Communications
Old Airport, Berakas
BANDAR SERI BEGAWAN 2051
Tel: +673 2 242324
Fax: +673 2 220469

M. SONG KIN KOI (D)
Senior Telecom Executive Engineer
Jabatan Telekom Brunei, Ministry of Communications
Old Airport, Berakas
BANDAR SERI BEGAWAN 2051
Tel: +673 2 242324
Fax: +673 2 220469

**Bulgarie (République de)
Bulgaria (Republic of)
Bulgaria (República de)**

M. MIRSKI Krastyu (C)
Vice President
Committee of Posts and Telecommunications
Gourko Str.
SOFIA
Tel: +359 2 889468
Fax: +359 2 803008

Mme DANOVSKA Lina (D)
Senior Expert
Committee of Posts and Telecommunications
Gourko Str.
SOFIA
Tel: +359 2 889629
Fax: +359 2 803871

M. DOYTCHINOV BORISSOV Gueorgui (D)
Consejero Comercial
Embajada de Bulgaria
Sucre No. 1568
BUENOS AIRES - Argentina
Tel: +54 1 7818644
Fax: +54 1 7818644

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Burkina Faso Burkina Faso Burkina Faso

M. ATTIRON Clément (D)

Directeur de l'Exploitation et de la Comptabilité des
Télécommunications
ONATEL
B.P. 10.000
OUAGADOUGOU 01
Tel: +226 307747
Fax: +226 310331

M. SANOU Brahim (D)

Chef du Service des Organisations Internationales
ONATEL
B.P. 10.000
OUAGADOUGOU 01
Tel: +226 311389
Fax: +226 310331

Burundi (République du) Burundi (Republic of) Burundi (República de)

S.E. M. NIYONKURU Schadrack (C)

Ministre des Transports, Postes et Télécommunications
Ministère des Transports, Postes et Télécommunications
B.P. 2000
BUJUMBURA
Tel: +257 222923

M. NGENDABANKA Ferdinand (CA)

Directeur général de l'ONATEL
Office national des télécommunications - ONATEL
B.P. 60
BUJUMBURA
Tel: +257 223196
Fax: +257 226917

Cambodge Cambodia Camboya

S.E. M. KHUN So (C)

The Secretary of State for Posts and Telecommunications
Ministry of Posts and Telecommunications
PHNOM PENH
Tel: +855 23 26786
Fax: +855 23 26219

Cameroun (République du) Cameroon (Republic of) Camerún (República de)

S.E.M. DAISSALA Dakole (C)

Ministre d'Etat chargé des Postes et Télécommunications
Ministère des Postes et Télécommunications
YAOUNDE
Tel: +237 232055
Fax: +237 232693

M. KAMDEM-KAMGA Emmanuel (CA)

Inspecteur général des postes et télécommunications
Ministère des Postes et Télécommunications
YAOUNDE
Tel: +237 213064
Fax: +237 232693

Mme ABENKOU EBAA Paulette (D)

Chef Division Etudes et Développement
Ministère des Postes et Télécommunications
B.P. 1571
YAOUNDE
Tel: +237 230949
Fax: +237 230303

M. DJOUAKA Henri (D)

Directeur Général-Adjoint
Ministère des Postes et Télécommunications
B.P. 1571
YAOUNDE
Tel: +237 232292
Fax: +237 230303

M. MAGA Richard (D)

Directeur Centre d'études des télécommunications
Ministère des Postes et Télécommunications
YAOUNDE
Tel: +237 223550

M. NINGO Nde (D)

Directeur adjoint des télécommunications
Ministère des Postes et Télécommunications
YAOUNDE
Tel: +237 223550

M. TUMASANG Paul (D)

Directeur de l'Ecole Nationale Supérieure des Postes &
Télécommunications
Ministère des Postes et Télécommunications
YAOUNDE
Tel: +237 223700
Fax: +237 235005

M. WANMI François (D)

Directeur des télécommunications
Ministère des Postes et Télécommunications
YAOUNDE
Tel: +237 223550

Canada Canada Canadá

M. JONES Robert (C)

Director-General, Radio Regulatory Branch
Industry Canada
300 Slater Street
OTTAWA, ONT. K1A 0C8
Tel: +1 613 9904817
Fax: +1 613 9934433

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Canada Canada Canadá

M. GAGNE Pierre (CA)

Director, International Telecommunications
Industry Canada
300 Slater Street
OTTAWA, ONT. K1A 0C8
Tel: +1 613 9904240
Fax: +1 613 9525813

Mme DORAN Janis (D)

Head, Multilateral Telecommunications
Department of Communications - Government of Canada
300, Slater Street
OTTAWA, ONT. K1A 0C8
Tel: +1 613 9904241
Fax: +1 613 9525313

Mme DORWARD Lynne Anne (D)

Asst Vice-President - Business Development
BELL Canada International
Suite 1200 - 1000 de la Gauchetière Ouest
MONTREAL, QUEBEC H3B 4Y8
Tel: +1 514 3922318
Fax: +1 514 3922912

M. GILBERT John A. (D)

Consultant, International Relations Branch
Industry Canada
300, Slater Street
OTTAWA, ONT. K1A 0C8
Tel: +1 613 9904241

M. LABERGE Paul (D)

Senior Manager, Network Management Systems
MPR Teltech Ltd
8999 Nelson Way
BURNABY, B.C. V5A 4B5
Tel: +1 604 2935787
Fax: +1 604 2935787

M. OHUIGINN Dara L. (D)

V.P./General Manager, Latin America
Newbridge Networks Corporation
600 March Road - P.O. Box 13600
KANATA, ONT. K2K 2E6
Tel: +1 613 5916300
Fax: +1 613 5993611

M. PATRY Pierre (D)

Directeur du Bureau de coopération extérieure
Télé-Université
1001, rue Sherbrooke Est, 4^e étage - C.P. 5250 Succ "C"
MONTREAL, QUEBEC H2X 3M4
Tel: +1 514 522 3540
Fax: +1 514 522 3608

M. SIMPSON Richard (D)

Director, Telecommunications & Technology
The Commonwealth of Learning
1700-777 Dunsmuir Street - Box # 10428
VANCOUVER, British Columbia V7Y 1K4
Tel: +1 604 6604675
Fax: +1 604 6607472

M. SONES Richard (D)

Manager, Software Systems
MPR Teltech
8999 Nelson Way
BURNABY, B.C. V5A 4B5
Fax: +1 604 2935787

M. ZADRA Randy (D)

Manager International Telecommunications
Co. Industry Canada
300 Slater St. #704
OTTAWA, ONT. K1A 0C8
Tel: +613 9935444
Fax: +613 9904215

M. ZEITOUN Tony (D)

Director, Infrastructure Section, Technical Directorate, Asia
Branch
Canadian International Development Agency
200, Promenade du Portage
HULL (QUEBEC) - K1A 0G4
Tel: +1 819 9971480
Fax: +1 819 9971491

Cap-Vert (République du) Cape Verde (Republic of) Cabo Verde (República de)

M. LIVRAMENTO MONTEIRO José Luis (C)

General Director of Post-Office and Telecom. Enterprise (CTT)
Empresa dos Correios e Telecomunicações
Caixa Postal 220
PRAIA
Tel: +238 615578
Fax: +238 614226

M. INOCENCIO Carlos Alberto (CA)

Technical Director of Telecommunications
Empresa dos Correios e Telecomunicações
Caixa Postal 220
PRAIA
Tel: +238 615579
Fax: +238 613725

Centrafricaine (République) Central African Republic Centrafricana (República)

S.E. M. TCHENDO Jean Vermond (C)

Ministre de la Communication des Postes &
Télécommunications
Ministère de la Communication, des Postes et
Télécommunications
BANGUI
Fax: +236 61 5048

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Centrafricaine (République) Central African Republic Centroafricana (República)

M. BOYKOTA ZOUKETIA Joseph (CA)

Directeur Général de SOCATTEL
Société Centrafricaine des Télécommunications (SOCATEL)
Boîte Postale 939
BANGUI
Fax: + 236 615048

M. MANGA MABADA Philippe (D)

Directeur des Etudes, Planification et Relations Internationales
Société Centrafricaine de Télécommunications (SOCATEL)
B.P. 939
BANGUI
Tel: + 236 614263
Fax: + 236 615048

Chili Chile Chile

S.E. M. ROSENBLUT Jorge (C)

Subsecretario de Telecomunicaciones
Administración Chilena de Telecomunicaciones
Casilla 120 Correo 21
SANTIAGO
Tel: + 56 2 6988196
Fax: + 56 2 6973913

M. GATICA Leonardo (CA)

Jefe Depto. Asuntos Internacionales
Administración Chilena de Telecomunicaciones
Casilla 120 Correo 21
SANTIAGO
Tel: + 56 2 6725210
Fax: + 56 2 6973913

M. PLISCOFF VASQUEZ Roberto (D)

Asesor
Administración Chilena de Telecomunicaciones
Amunátegui 139-5° piso
SANTIAGO
Tel: + 56 2 6988196
Fax: + 56 2 6973913

M. SAN MARTIN Gregorio (D)

Jefe División Planificación Estratégica y Estudios
Administración Chilena de Telecomunicaciones
Amunátegui 139
SANTIAGO
Tel: + 56 2 6725210
Fax: + 56 2 6973913

M. SCHMIDT Christian (D)

Administración Chilena de Telecomunicaciones
Amunátegui 139
SANTIAGO

M. SILVA Alvaro (D)

Ingeniero
Administración Chilena de Telecomunicaciones
Amunátegui 139
SANTIAGO

Chine (République populaire de) China (People's Republic of) China (República Popular de)

S.E. M. GAOFENG Zhu (C)

Vice-Minister
Ministry of Posts and Telecommunications
13 West Changan Ave.
BEIJING 100804
Tel: + 86 1 6014670
Fax: + 86 1 6011370

Mme JIN Yue (D)

Interpreter
Ministry of Posts and Telecommunications
13, West Changan Ave.
BEIJING 100804
Tel: + 86 1 6037609
Fax: + 86 1 6011370

M. LIU Cai (D)

Director-General, Dept of Policy & Regulation
Ministry of Posts and Telecommunications
13, West Changan Ave.
BEIJING 100804
Tel: + 86 1 6024130
Fax: + 86 1 6011370

M. QU Wenchu (D)

Division Chief, Dept of External Affairs
Ministry of Posts and Telecommunications
13, West Changan Ave.
BEIJING 100804
Tel: + 86 1 6021330
Fax: + 86 1 6011370

M. WANG Zhanning (D)

Deputy Director, Dept of External Affairs
Ministry of Posts and Telecommunications
13, West Changan Ave.
BEIJING 100804
Tel: + 86 1 6020618
Fax: + 86 1 6011370

Chypre (République de) Cyprus (Republic of) Chipre (República de)

M. MODESTOU Sparsis (C)

Deputy General Manager
Cyprus Telecommunication Authority
1 Telecommunications Street - P.O. Box 4929
NICOSIA 142
Tel: + 357 2 310204
Fax: + 357 2 494940

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Chypre (République de)
Cyprus (Republic of)
Chipre (República de)**

M. ECONOMIDES Michael (CA)

Manager Business Planning & Organisation
Cyprus Telecommunication Authority
1 Telecommunications Street
NICOSIA 142
Tel: +357 2 310424
Fax: +357 2 494940

M. ARTEMIS Andreas (D)

Member of the Board of the Authority
Cyprus Telecommunication Authority
1 Telecommunications Street - P.O. Box 4929
NICOSIA 142
Tel: +357 2 310204
Fax: +357 2 494940

**Cité du Vatican (Etat de la)
Vatican City State
Ciudad del Vaticano (Estado de la)**

M. MONDINO Claudio (C)

Nunciatura Apostólica de Buenos Aires
Avenida Alvear 1605
1014 BUENOS AIRES - Argentina
Tel: +54 1 8170691
Fax: +54 1 8154094

M. EIJO Nestor (CA)

Responsable du Système électronique de Sécurité
Avenida Alvear 1605
1014 BUENOS AIRES - Argentina
Tel: +54 1 8120691
Fax: +54 1 8154097

**Colombie (République de)
Colombia (Republic of)
Colombia (República de)**

S.E. M. JARAMILLO GOMEZ William (C)

Ministro de Comunicaciones
Ministerio de Comunicaciones
Edificio Murillo Toro - Carreras 7 y 8 x Calle 13
BOGOTA D.E. 1
Tel: +57 1 2849090
Fax: +57 1 2861185

S.E. M. RICARDO Victor G. (C)

Embajador de Colombia
Embajada de Colombia en Argentina
Carlos Pellegrini 1363 - Piso 3
1011 BUENOS AIRES - Argentina
Tel: +54 1 3251106
Fax: +54 1 3259370

M. CASTRO ROJAS Felix (CA)

Jefe de la Oficina Internacional
Ministerio de Comunicaciones
Edificio Murillo Toro - Carreras 7 y 8 x Calle 13
BOGOTA D.E. 1
Tel: +57 1 2826317
Fax: +57 1 2861185

Mme ANGARITA Carmen Cecilia (D)

Secretaria General de Telecom
Ministerio de Comunicaciones
Calle 101 A No. 29-30
BOGOTA D.C.
Tel: +571 3412185
Fax: +571 2829726

M. CORTAZAR GARCIA Jorge (D)

Vicepresidente de Operaciones de Telecom
Ministerio Comunicaciones
Calle 23 No. 13-49
BOGOTA D.C.
Tel: +571 3412186
Fax: +571 12829472

M. GALLON Adolfo Leon (D)

Gerente de Teléfonos
Empresas Municipales de Cali
Avenida 3N No. 53-N-11
CALI
Tel: +571 644004
Fax: +571 648373

M. GOMEZ GALLEGOS Oscar (D)

Jefe División Operativa Equipos - EPM
Ministerio de Comunicaciones
Edificio Murillo Toro
Carreras 7 y 8 x Calle 13
BOGOTA D.E. 1

M. MUÑOZ Jairo (D)

Subgerente de Planeación Empresa de Teléfonos de Bogotá
Ministerio de Comunicaciones
Carrera 7 No. 20-37 Apartado Aéreo No. 4133
BOGOTA
Tel: +57 1 3414262
Fax: +57 1 2836366

M. NICHOLLS Iván (D)

Ministro Consejero
Embajada de Colombia en Argentina
Carlos Pellegrini 1363, Piso 3
1011 BUENOS AIRES - Argentina
Tel: +54 1 3251106
Fax: +54 1 3229370

M. RESTREPO MORENO Sergio (D)

Miembro Grupo Definición Empresarial
Ministerio de Comunicaciones
Edificio Murillo Toro
Carreras 7 y 8 x Calle 13
BOGOTA D.E. 1

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Colombie (République de)
Colombia (Republic of)
Colombia (República de)

M. VASQUEZ BOTERO Alberto (D)

Gerente de Telecomunicaciones
Empresas Públicas de Medellín
Calle 53 No. 52-16
Edificio Miguel de Aguinaga
MEDELLIN
Tel: +571 5151515
Fax: +571 2510581

Comores (République fédérale islamique des)
Comoros (Islamic Federal Republic of the)
Comoras (República Federal Islámica de las)

S.E. M. HOUMED MDAHOMA Msaidie (C)

Ministre de l'Information et de la Culture, chargé des P&T
Ministère de l'Information et de la Culture
Porte-Parole du Gouvernement
MORONI

M. CHAIBATI Matoiri (D)

Directeur des Postes et Télécommunications
Société Nationale des Postes et Télécommunications (SNPT)
P.O. Box 5000
MORONI
Tel: +269 730610
Fax: +269 731079

Congo (République du)
Congo (Republic of the)
Congo (República del)

S.E. Mme LIPOU MASSALA Albertine (C)

Ministre
Ministère de la Communication des Postes et
Télécommunications
Tour Mabemba 8ème étage - B.P. 114
BRAZZAVILLE
Tel: +242 837620
Fax: +242 830794

M. EBAYI Faustin (CA)

Conseiller aux Télécommunications du Ministre des PTT
Tour Nabemba - 8ème étage
BP 114
BRAZZAVILLE
Tel: +242 836241
Fax: +242 830794

M. BOUNZEKI Albert (D)

Directeur des télécommunications
Office National des Postes & Télécommunications
Avenue Patrice Lumumba
BRAZZAVILLE
Tel: +242 830815
Fax: +242 837546

Corée (République de)
Korea (Republic of)
Corea (República de)

M. IM Jeong-Jae (C)

Director General
Ministry of Communications
100 Sejong-Ro Chongro-Gu
SEOUL 110-777
Tel: +82 2 7502370
Fax: +82 2 7502346

M. HAHN Chun-Koo (CA)

Director
Ministry of Communications
100 Sejong-Ro Chongro-Gu
SEOUL 110-777
Tel: +82 2 7502110
Fax: +82 2 7502346

M. CHAE Jong-Weon (D)

Director of Corporate Strategy
Dacom Corporation
140-716 Dacom Bldg. 65-228
3-Ga, Hamgang-Ro, Yongsan-Ku
SEOUL
Tel: +82 2 2201350
Fax: +82 2 2200723

M. CHOI Yong-Rok (D)

Senior Researcher
Korea Telecom
100 Sejong-No Chongno-Gu
SEOUL 110-777
Tel: +82 2 7503821
Fax: +82 2 7503830

M. HONG Kul-Pyo (D)

Manager of Corporate Strategy
Dacom Corporation
140-716 Dacom Bldg. 65-228
3-Ga, Hamgang-Ro, Yongsan-Ku
SEOUL
Tel: +82 2 2201332
Fax: +82 2 2200723

M. IM Tae-Kyoung (D)

Senior Researcher
Korea Mobile Telecom
16-49 Hamgang-Ro 3-Ga,
Yongsan-Ku
SEOUL
Tel: +82 2 7050269
Fax: +82 2 7050265

M. JEONG Taegwon (D)

Section Head
ETRI
Box 161, Yusong P.O.
Yusong
DAEJON 305-350
Tel: +82 42 8605710
Fax: +82 42 8605410

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Corée (République de)
Korea (Republic of)
Corea (República de)**

M. JIN Seung-Ho (D)
Assistant Manager
Korea Telecom
100 Sejong-No Chongno-Gu
SEOUL 110-777
Tel: +82 2 7503816
Fax: +82 2 7503830

M. KANG Duk-Keun (D)
Director
Ministry of Communications
100 Sejong-Ro Chongro-Gu
SEOUL 110-777
Tel: +82 2 7502340
Fax: +82 2 7502346

M. KIM Young-Soo (D)
Deputy Director
Ministry of Communications
100 Sejong-Ro, Chongro-Ku
SEOUL 110-777
Tel: +82 2 7502341
Fax: +82 2 7502346

M. KIM Myong-Ryong (D)
Deputy Director
Ministry of Communications
100 Sejong-Ro Chongro-Gu
SEOUL 110-777
Tel: +82 2 7502662
Fax: +82 2 7502346

Mme KIM Eun-Ju (D)
Special Adviser/Senior Research Fellow
Ministry of Communications
100 Sejong-Ro Chongro-Gu
SEOUL 110-777
Tel: +82 2 7502347
Fax: +82 2 7502346

M. KWON Tai-Young (D)
Vice President
Korea Telecom
100 Sejong-No Chongno-Gu
SEOUL 110-777
Tel: +82 2 7503800
Fax: +82 2 7503830

M. LEE Kyung-Chun (D)
Vice-President
Korea Mobile Telecom
16-49 Hamgang-Ro 3-Ga
Yongsan-Ku
SEOUL
Tel: +82 2 7050269
Fax: +82 2 7050269

M. LIM Young-June (D)
Director
Korea Telecom
100 Sejong-No Chongno-Gu
SEOUL 110-777
Tel: +82 2 7503816
Fax: +82 2 7503830

**Costa Rica
Costa Rica
Costa Rica**

S.E. M. GUARDIA ALVARADO Fernando (D)

**Côte d'Ivoire (République de)
Côte d'Ivoire (Republic of)
Côte d'Ivoire (República de)**

S.E. M. AKELE Ezan (C)
Ministre de l'Équipement, des Transports et des Télécom.
Ministère de l'Équipement, des Transports et des Télécom.
B.P. V 6
ABIDJAN
Tel: +225 347315
Fax: +225 347329

M. AKA BONNY Léon (CA)
Président Directeur-Général
CI-TELCOM
17 B.P. 275
ABIDJAN 17
Tel: +225 344868
Fax: +225 344865

M. AHOU JOSEPH Jean-Baptiste (D)
Secrétaire-Général
CI-TELCOM
17 B.P. 275
ABIDJAN 17
Tel: +225 344504
Fax: +225 344502

M. APETHEY Kouassi (D)
Directeur Infrastructure/Industrie
Banque Africaine de développement
BP 1387
ABIDJAN
Tel: +225 201047
Fax: +225 201902

**Cuba
Cuba
Cuba**

S.E. M. LOPEZ René (C)
Viceministro del Ministerio de Comunicaciones
Ministerio de Comunicaciones
Ave. Independencia y 19 de Mayo, Plaza de la Revolución
LA HABANA
Tel: +53 7 815432
Fax: +53 7 335190

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Cuba
Cuba
Cuba

M. VILLANUEVA Juan Manuel (D)
Asesor
Ministerio de Comunicaciones
Ave. Independencia y 19 de Mayo - Plaza de la Revolución
LA HABANA
Tel: +53 7 815432
Fax: +53 7 335190

Danemark
Denmark
Dinamarca

M. MOLLMAN Erik (C)
Deputy Permanent Secretary
Ministry for Communications and Tourism
Tietgensgade 37, 2nd floor
DK-1530 COPENHAGEN V
Tel: +45 33 932410
Fax: +45 33 938403

Mme KONNER Mette J. (CA)
Head of International Section
National Telecom Agency
Holsteinsgade 63
DK-2100 COPENHAGEN O
Tel: +45 35 430333
Fax: +45 35 433910

Djibouti (République de)
Djibouti (Republic of)
Djibouti (República de)

M. FARAH MOUMIN YABEH (C)
Directeur général adjoint
Direction générale de l'Office des postes et des
télécommunications (OPT)
Boulevard de la République
DJIBOUTI
Tel: +253 350669
Fax: +253 355757/350062

M. MOHAMED KAMIL ALI (D)
Inspecteur des télécommunications
Direction générale de l'Office des postes et des
télécommunications (OPT)
Boulevard de la République
DJIBOUTI
Tel: +253 351127
Fax: +253 355757

Egypte (République arabe d')
Egypt (Arab Republic of)
Egipto (República Arabe de)

S.E. M. MOTTALEB Mohamed Ossama Abdel (C)
Embajador de Egipto en Argentina
Embajada de Egipto en Argentina
Juez Tedín 2795
1425 BUENOS AIRES - Argentina
Tel: +541 8053913
Fax: +541 8016145

M. SELIM Mohamed Mohamed (C)
Vice-Chairman of Arento for Operation and Maintenance
ARENTO
P.O. Box 2271
CAIRO 11511
Tel: +20 2 750222
Fax: +20 2 771306

M. AHMED Shawki Abdel Moniem (D)
Chief Training Central Department
ARENTO
P.O. Box 2271
CAIRO 11511
Tel: +20 2 2610080
Fax: +20 2 2613504

El Salvador (République d')
El Salvador (Republic of)
El Salvador (República de)

M. ESMAHAN-GRANADOS Herbert (C)
Asesor de Presidencia
Administración Nacional de Telecomunicaciones - ANTEL
Edificio Administrativo de Antel - 9º piso, Centro de Gobierno
SAN SALVADOR
Tel: +503 717005
Fax: +503 810204

Emirats arabes unis
United Arab Emirates
Emiratos Arabes Unidos

M. AL MEHRIZI Abdullah (C)
Assistant General Manager (Technical)
ETISALAT
P.O. Box 3838, Etisalat Head Office
ABU DHABI
Tel: +971 2 283333
Fax: +971 2 317000

M. ABDULLA RASHID AL-ZA'ABI Abdulla (D)
Ministry of Communications
P.O. Box 990
ABU DHABI
Tel: +971 2 313755
Fax: +971 2 216165

M. AL FALASI Saeed (D)
Ministry of Communications
P.O. Box 999
ABU DHABI
Tel: +971 2 478697
Fax: +971 2 216165

M. AL MUHAIDEB Ahmed (D)
Assistant Director of Engineering (Radio)
UAE Radio & TV - Dubai
P.O. Box 1695
DUBAI
Tel: +971 4 378974
Fax: +971 4 370283

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Emirats arabes unis United Arab Emirates Emiratos Arabes Unidos

M. ALKHALIFA Y. Abdulrahim (D)

Senior Technician for Wireless Equipment and Frequencies
Ministry of Communications
P.O. Box 900,
ABU DHABI
Tel: +971 2 651900/661869
Fax: +971 2 651691

M. JUMA MOHAMED JUMA AL-NAOBI Juma (D)

Ministry of Communications
P.O. Box 990
Tel: +971 2 313755
Fax: +971 2 216165

M. MAHAMOOD ABDULRAHIM ABDULLA Mahamood (D)

Ministry of Communications
P.O. Box 990
ABU DHABI
Tel: +971 2 313755
Fax: +971 2 216165

M. SALIM SAEED SALIM AL KA'ABI Salim (D)

Ministry of Communications
P.O. Box 990
ABU DHABI
Tel: +971 2 313755
Fax: +971 2 216165

Equateur Ecuador Ecuador

M. LOZA ARGÜELLO Adolfo (C)

Superintendente de Telecomunicaciones
Superintendencia de Telecomunicaciones
Av 9 de Octubre 1694 y Berlín
QUITO
Tel: +593 2 222449
Fax: +593 2 566688

M. VIVANCO José (CA)

Director de Gestión Internacional
Superintendencia de Telecomunicaciones
Av. 9 de Octubre 1694 y Berlín
QUITO
Tel: +593 2 220786
Fax: +593 2 566688

M. RODRIGUEZ Daniel (D)

Subdirector de Control de Planes y Normas
Superintendencia de Telecomunicaciones
Av. 9 de Octubre 1694 y Berlín
QUITO
Tel: +593 2 222176
Fax: +593 2 566688

M. ROLDAN REASCOS Milton (D)

Subdirector de Planificación
Superintendencia de Telecomunicaciones
Av. 9 de Octubre 1694 y Berlín
QUITO
Tel: +593 2 222176
Fax: +593 2 566688

Espagne Spain España

Mme SALGADO MENDEZ Elena (C)

Secretaria General de Comunicaciones
Secretaría General de Comunicaciones
C/Alcalá 50 - Palacio de Comunicaciones
28070 MADRID
Tel: +34 1 5323368
Fax: +34 1 3962777

S.E. M. SEGURA MORRIS Antonio (CA)

Ministro Consejero
Embajada de España
Libertador 2075
BUENOS AIRES - Argentina
Tel: +54 1 8026031

M. NADAL ARIÑO Javier (CA)

Director General de Telecomunicaciones
Dirección General de Telecomunicaciones
Palacio de Comunicaciones, Plaza Cibeles s/n
28071 MADRID
Tel: +34 1 5221972
Fax: +34 1 3461577

M. OSA BUENDIA Joaquín (CA)

Subdirector General de Redes y Sistemas de Telecom. y
Miembro de TDAB
Palacio de Comunicaciones - 5ª Planta, Despacho Nº 45 -
Plaza de Cibeles s/n
28070 MADRID
Tel: +34 1 3461549
Fax: +34 1 3461520

M. ABEIJON Manuel (D)

Jefe Area de Programas A. Telecom
Dirección General de Telecomunicaciones
Palacio de Comunicaciones- Plaza Cibeles s/n
28070 MADRID
Tel: +34 1 3461510
Fax: +34 1 3461598

M. CEBRIAN ECHARRI José Vicente (D)

Asesor Técnico
Dirección General de Telecomunicaciones
Palacio de Comunicaciones 6 5ª D.62
28070 MADRID
Tel: +34 1 3461566
Fax: +34 1 3461598

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Espagne
Spain
España**

M. DE LOS MARTIRES Román (D)

Ingeniero de Telecomunicaciones
Ministerio de Obras Públicas y Transportes
Torres Quevedo 2, Poligono Industrial, 28914 Leganés
MADRID
Tel: +341 3391300
Fax: +341 6865100

M. GUTIERREZ Daniel (D)

Ingeniero de Telecomunicaciones
Dirección General de Telecomunicaciones
Principe de Vergara, 108
28002 MADRID
Tel: +34 1 3392638
Fax: +34 1 3392643

M. LINDGREN Raimo (D)

Ingeniero de Telecomunicaciones
Ministerio de Obras Públicas y Transportes
Torres Quevedo 2, Poligono Industrial, 28914 Leganés
MADRID
Tel: +341 3391900
Fax: +34 1 6865100

M. MARTINEZ MIGUEZ Luis (D)

Asesor Técnico
Dirección General de Telecomunicaciones
Palacio de Comunicaciones 6 5ª D.62
28070 MADRID
Tel: +34 1 3461566
Fax: +34 1 3461598

M. RAMIL GONZALEZ Jesús (D)

Consejero Técnico
Subdirección General
Palacio de Comunicaciones, Planta 5,
Plaza de Cibeles
28071 MADRID
Tel: +34 1 3451549
Fax: +34 1 3461520

M. RUBIO CARRETON Vicente (D)

Jefe de Relaciones Internacionales
Dirección General de Telecomunicaciones
Palacio de Comunicaciones - Plaza de Cibeles s/n
28071 MADRID
Tel: +34 1 3461513
Fax: +34 1 5322972

M. SILVAN CARABIAS Gerardo (D)

Jefe del Area del Plan Nacional de Telecomunicaciones
Dirección General de Telecomunicaciones
Palacio de Comunicaciones, 5ª Planta, Plaza de Cibeles s/n
28070 MADRID
Tel: +34 1 3461579
Fax: +34 1 3461520

**Etats-Unis d'Amérique
United States of America
Estados Unidos de América**

M. RODRIGUEZ Raúl R. (C)

Attorney
Leventhal, Senter & Lerman
2000 K Street, N.W., Suite 600
WASHINGTON, D.C. 20006
Tel: +1 202 4298970
Fax: +1 202 2937783

M. BEAIRD Richard (CA)

Senior Deputy U.S. Coordinator and Director
U.S. Department of State
2201 C Street, N.W. - Room 6313
WASHINGTON, D.C. 20520
Tel: +1 202 6475832
Fax: +1 202 6475957

Mme KISSEE-SANDOVAL Catherine J. (CA)

Special Assistant to the Director
Federal Communications Commission
Office of International Communications - 1919 M Street,
N.W. - Room 658
WASHINGTON, D.C. 20554
Tel: +1 202 6320935
Fax: +1 202 6320935

Mme PREWITT Jean (CA)

Associate Administrator
National Telecommunications & Information Administration
U.S. Department of Commerce, Room 4720 - 14th &
Constitution Avenue, N.W.
WASHINGTON, D.C. 20230
Tel: +1 202 4821304
Fax: +1 202 4821865

M. BALL James (D)

Acting Director, Office of International Communications
Federal Communications Commission
1919 M Street, N.W. - Room 658
WASHINGTON, D.C. 20554
Tel: +1 202 6320935
Fax: +1 202 6320929

M. BURKETTE Robert (D)

Foreign Affairs Officer, Bureau of International Organization
Affairs
U.S. Department of State
2201 C Street, N.W. - Room 5336
WASHINGTON, D.C. 20521
Tel: +1 202 6471526
Fax: +1 202 6478902

Mme CRANE Rhonda J. (D)

Director for Federal Government Affairs
AT&T
Suite 1000 - 1120 20th Street, N.W.
WASHINGTON, D.C. 20036
Tel: +1 202 4572402
Fax: +1 202 2931049

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Etats-Unis d'Amérique
United States of America
Estados Unidos de América**

M. CROWELL Raymond (D)

Director, Industry & Government Planning
COMSAT CORPORATION
6560 Rock Spring Drive
BETHESDA, MARYLAND 20817
Tel: +301 2143466
Fax: +301 2147100

M. DAFFNER Gregg (D)

Vice President Market Development & Regulatory Affairs
PANAMSAT
One Pickwick Plaza
GREENWICH, CONNECTICUT 06877
Tel: +1 203 6226664
Fax: +1 203 6229163

M. EVERETT Richard (D)

Director, Developing Country Programs
IRIDIUM Inc.
1401 H Street, N.W. - Suite 1800
WASHINGTON, D.C. 20005
Tel: +1 202 3265675
Fax: +1 202 8420006

M. FINE David (D)

Asst. Vice President-Government & International Relations
Southwestern Bell Corporation
Suite 1100; 1401 I Street, N.W.
WASHINGTON, D.C. 20005
Tel: +1 202 3268870
Fax: +1 202 4084803

Mme FRANK Robin (D)

Attorney Advisor
U.S. Department of State
2201 C Street, N.W. L/EBC - Room 6420
WASHINGTON, D.C. 20520
Tel: +1 202 6477772
Fax: +1 202 7367115

Mme GALLAGHER Lynne (D)

President
Telecom/Telematique International
WASHINGTON, D.C. 20008
Tel: +1 202 4625966
Fax: +1 202 2324964

Mme HERNANDEZ Janet (D)

Attorney
National Telecommunication and Information Administration
U.S. Department of Commerce - 14th & Constitution Ave.,
N.W. - Room 4713
WASHINGTON, D.C. 20230
Tel: +1 202 4821816
Fax: +1 202 4826173

Mme HURD Jane N. (D)

President
Severance International, Inc.
1120 C Street, S.E.
WASHINGTON, D.C. 20003
Tel: +1 202 6754585
Fax: +1 202 6754586

Mme KAUFMAN Anita (D)

Int'l Standard Manager
MCI International, Inc
1 International Drive
RYE BROOK, N.Y. 10573
Tel: +1 914 9346303
Fax: +1 914 9346912

M. MACK John (D)

Director, Africa and Middle East Trade & Development
U.S. Department of State
2201 C Street, N.W. - Room 5310
WASHINGTON, D.C. 20520
Tel: +1 202 6475778
Fax: +1 202 6470158

M. MARSHALL C. Travis (D)

Deputy to the Chairman
MOTOROLA, Inc.
1350 I St NW
WASHINGTON, D.C. 20005
Tel: +1 202 3716911
Fax: +1 202 8423578

Mme MCGIRR Doreen (D)

Executive Director to the U.S. Delegation
U.S. Department of State
2201 C Street, N.W. - Room 5310
WASHINGTON, D.C. 20520
Tel: +1 202 6475231
Fax: +1 202 6470158

M. MORAN William (D)

Engineer, Office of International Affairs
National Telecommunications & Information Administration
U.S. Department of Commerce - 14th & Constitution Avenue,
N.W.
Room 4701
WASHINGTON, D.C. 20230
Tel: +1 202 4821866
Fax: +1 202 4821865

M. NELSON Eric (D)

Director of International Affairs
Telecommunications Industry Association
2001 Pennsylvania, N.W. Suite 800
WASHINGTON, D.C. 20006
Tel: +1 202 4577737
Fax: +1 202 4574939

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Etats-Unis d'Amérique
United States of America
Estados Unidos de América

Mme O'NEILL Judith (D)

Partner
Steptoe & Johnson
1330 Connecticut Avenue N.W.
WASHINGTON, D.C. 20036
Tel: +1 202 4296212
Fax: +1 202 4293902

M. ROBLES Christopher (D)

Advisor
Federal Communications Commission
1001 West 15th Street
SAN PEDRO, CA 90731

Mme ROSEMAN Walda (D)

President
Compass Rose International, Inc.
1200 19th Street, N.W.
WASHINGTON, D.C. 20036
Tel: +1 202 8332390
Fax: +1 202 4663055

M. SCHMIDT Leland (D)

Vice-President Industry Affairs
GTE Telephone Operations
600 Hidden Ridge - HQEO4FO3 P.O. Box 152092
IRVING, TX 75015
Tel: +1 214 7181881
Fax: +1 214 7182803

Fidji (République de)
Fiji (Republic of)
Fiji (República de)

M. TURAGANIVALU Josua (C)

Director, Regulatory Unit
Ministry of Information, Broadcasting, Television &
Telecommunications
P.O. Box 2225 - Government Buildings
SUVA
Tel: +679 211257
Fax: +679 300766

M. NAQOVA Emori (CA)

Managing Director
Fiji Posts & Telecommunications Limited
P.O. Box 40
SUVA
Tel: +679 304109
Fax: +679 301765

Finlande
Finland
Finlandia

M. SVENSSON Reijo (C)

Chief Executive Officer
Telecommunications Administration Centre
P.O. Box 53
00211 HELSINKI
Tel: +358 0 6966401
Fax: +356 0 6966410

Mme IKONEN Marja (CA)

Chargée de mission
Telecommunications Administration Centre
P.O. Box 53
00211 HELSINKI
Tel: +358 0 69661
Fax: +358 0 6966410

M. RIIHIMAKI Jaakko (D)

President
Omnitele Ltd
Ruoholahdenkatu 8
00180 HELSINKI
Tel: +358 0 177699
Fax: +350 0 177182

M. SIRKEINEN Yrjö (D)

Managing Director
TELECON Ltd
Kitarakuja 4 D
00420 HELSINKI
Tel: +358 0 5072788
Fax: +358 0 5071229

France
France
Francia

M. GARNIER Dominique (C)

Chef du Bureau Télécommunications Internationales
Ministère de l'Industrie, des Postes et Télécommunications
Direction Générale des Postes et Télécommunications - Service
des Affaires Inter. - 20, Av. de Ségur
75700 PARIS
Tel: +33 1 45641869
Fax: +33 1 44116300

M. ROUXEVILLE Bernard Henri (CA)

Administrateur - Direction du Service Public
Ministère de l'Industrie, des Postes et Télécom. & du
Commerce Extérieur
20, avenue de Ségur
75700 PARIS
Tel: +33 1 45646849
Fax: +33 1 40610698

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

France
France
Francia

M. PILLET Thierry (D)

Responsable Coopération Technique Internationale
Ministère de l'Industrie, des Postes et Télécom. & du
Commerce Extérieur
DGPT, 20 Avenue de Ségur
75700 PARIS
Tel: +33 1 43196759
Fax: +33 1 43196002

M. BONHOURE Jean-Paul (D)

FRANCE TELECOM
124 Rue Réaumur
75091 PARIS CEDEX 02
Tel: +33 1 42217198
Fax: +33 1 42217304

Mlle MENIER Jacqueline (D)

Chargée des Relations avec l'UIT
FRANCE TELECOM
7, Bd Romain Rolland
92128 MONTRouGE
Tel: +33 1 44446818
Fax: +33 1 44444782

M. PECRESSE Jean (D)

Directeur Général Adjoint
FRANCE TELECOM
SOFRECOM, 24 Avenue du Petit Parc
94307 VINCENNES CEDEX
Tel: +33 1 43985602
Fax: +33 1 43985796

M. PERROUIN Luc (D)

Chef du Service des Affaires Européennes et multilatérales
FRANCE TELECOM
7, Bd Romain Rolland
92128 MONTRouGE
Tel: +33 1 44444770
Fax: +33 1 46573860

Gabonaise (République)
Gabonese Republic
Gabonesa (República)

M. JOCKTANE Christian Daniel (C)

Inspecteur général adjoint de l'O.P.T.
Office des postes et des télécommunications (O.P.T.)
B.P. 2280
LIBREVILLE
Tel: +241 748745
Fax: +241 763435

M. IMOUNGA Francis (CA)

Directeur général adjoint
Radio Télévision
B.P. 2229
LIBREVILLE
Tel: +241 769364/747800
Fax: +241 763291

M. LEGNONGO Jules (CA)

Directeur Général Adjoint
P.T.T. Gabon
Radiodiffusion Télévision Gabonaise
LIBREVILLE
Tel: +241 703040/732025
Fax: +241 732153

M. MBENG-EKOGHA Fabien (D)

Directeur central des relations internationales
Office des postes et des télécommunications
B.P. 20000
LIBREVILLE
Tel: +241 787956
Fax: +241 766614

Gambie (République de)
Gambia (Republic of the)
Gambia (República de)

S.E. M. BALDEH Mathew (C)

Minister of Works and Communications
Ministry of Works and Communications
BANJUL
Tel: +220 227668
Fax: +220 226655

M. NJIE Bakary (CA)

Managing Director
Gambia Telecommunications Company Limited
3, Nelson Mandela Street - P.O. Box 387
BANJUL
Tel: +220 228822
Fax: +220 226699

M. CEESAY Ismaila (D)

Chairman, GAMTEL Board of Directors
Gambia Telecommunications Company Limited
3, Nelson Mandela Street - P.O. Box 387
BANJUL
Tel: +220 392230

M. CHAM Eliman (D)

Deputy Managing Director
Gambia Telecommunications Company Limited
3, Nelson Mandela Street - P.O. Box 387
BANJUL
Tel: +220 228302
Fax: +220 226002

M. FORSTER Felix (D)

Permanent Secretary
Ministry of Works and Communications
BANJUL
Tel: +220 227255
Fax: +220 226655

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Gambie (République de) Gambia (Republic of the) Gambia (República de)

M. NJIE E.H.O. (D)

GAMTEL Desk Officer, N.I.B.
Gambia Telecommunications Company Limited
3, Nelson Mandela Street - P.O. Box 387
BANJUL
Tel: +220 228868
Fax: +220 228832

Ghana Ghana Ghana

S.E. M. SALIA Edward K. (C)

Minister
Ministry of Transport and Communications
P.O. Box M.38
ACCRA
Tel: +233 21 666465
Fax: +233 21 667114

M. ALHAJI ISSAKU Saliah (CA)

Chairman, Parliamentary Committee, Transport and Comm.
Office of Parliament
MOTC Box M38
ACCRA
Tel: +233 21 666465

M. ADJEBU N.O.O. (D)

Director Planning, Research and Consultancy
Ghana Posts and Telecommunications Corporation
ACCRA
Tel: +233 21 229222

Grèce Greece Grecia

S.E. M. ANNINOS Apostolos (C)

Ambassador of Greece in Argentina
Embassy of Greece
Av. Presidente Roque Sanz Peña 547 - 4o. piso
BUENOS AIRES - Argentina
Tel: +54 1 3420528
Fax: +54 1 3422838

M. CHRISTOFILIS Ioannis (CA)

Conseiller d'Ambassade
Ambassade de Grèce à Buenos Aires
Av. Presidente Roque Sanz Peña 547 - 4o. piso
BUENOS AIRES - Argentina
Tel: +54 1 3420528
Fax: +54 1 3422838

M. IOANNIDIS Petros (CA)

Directeur de la Planification et du Développement des
Communications
Ministère des Transports et des Communications
49, avenue Syngrou
11780 ATHENES
Tel: +30 1 9231339
Fax: +30 1 9237133

M. KRANIOTIS Vassilios (D)

Secretary
Embassy of Greece in Buenos Aires
547 Av. Presidente Roque Sanz Peña - 4o. piso
BUENOS AIRES - Argentina
Tel: +54 1 3420528
Fax: +54 1 3422838

M. NODAROS Anastase (D)

Directeur, Chef de la Division des Organismes Intern. des Télécom
Organisme des télécommunications Helléniques (O.T.E.)
99, avenue Kifissias
15124 MAROUSSI
Tel: +30 1 6117170
Fax: +30 1 6117276

Guinée (République de) Guinea (Republic of) Guinea (República de)

M. CAMARA Seny (CA)

Directeur national des télécommunications
Ministère de la Communication
B.P. 33-22
CONAKRY
Tel: +224 414097
Fax: +224 442012

M. SOW Mamadou Dioulde (CA)

Ingénieur
Ministère de la Communication
CONAKRY
Tel: +224 462881
Fax: +224 444379

Guinée équatoriale (République de) Equatorial Guinea (Republic of) Guinea Ecuatorial (República de)

S.E. M. NVE NGU Antonio Fernando (C)

Minister
Ministerio de Transportes, Información y Comunicaciones
Calle Rey Boncorro
MALABO
Tel: +240 8 3436

M. ASUMU ASANGONO José-Serafin (CA)

Ingeniero de telecomunicación
Ministerio de Transportes, Correos y Telecomunicaciones
BATA
Tel: +240 8 2368/2053
Fax: +240 8 2131

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Haïti (République d')
Haiti (Republic of)
Haití (República de)

S.E. M. PRADEL Rosemond (C)

Ministre des Travaux Publics, Transports et Communications
Ministère des Travaux Publics, Transports et Communications
Rue des Ministères
PORT-AU-PRINCE
Tel: +509 234570
Fax: +509 236220

M. ELYSEE Jean Jaunasse (CA)

Directeur des Communications
Ministère des Travaux Publics, Transports et Communications
Rue des Ministères
PORT-AU-PRINCE
Tel: +509 224874
Fax: +509 236220

Honduras (République du)
Honduras (Republic of)
Honduras (República de)

M. PAZ José (C)

Asesor Gerencia
HONDUTEL
Edificio de Organismos Internacionales
Colonia Los Almendros
TEGUCIGALPA
Tel: +504 365576
Fax: +504 365280

Hongrie (République de)
Hungary (Republic of)
Hungría (República de)

S.E. M. BÖLCSKEI Imre (C)

Deputy State Secretary
Ministry of Transport, Communications and Water Management
1400 BUDAPEST Pf. 87
Tel: +36 1 1557775
Fax: +36 1 1113063

M. MEZEY Gábor (CA)

Counsellor
Ministry of Transport, Communications and Water Management
1400 BUDAPEST Pf. 87
Tel: +36 1 2697524
Fax: +36 1 1223480

M. HORVÁTH Pál (D)

Director
Ministry of Transport, Communications and Water Management
1400 BUDAPEST Pf. 87
Tel: +36 1 1750121

M. SALLAI Gyula (D)

Deputy General Director
Ministry of Transport, Communications and Water Management
1400 BUDAPEST Pf. 87
Tel: +36 1 1566375

Inde (République de l')
India (Republic of)
India (República de la)

S.E. M. RAM Sukh (C)

Minister of State for Communications
Ministry of Communications
Sanchar Bhavan, 20 Ashoka Road
NEW DELHI 110001
Tel: +91 11 3324332
Fax: +91 11 3711522

M. VITTAL Nagarajan (CA)

Chairman, Telecom. Commission & Secretary
Department of Telecommunications
Sanchar Bhavan, 20 Ashoka Road
NEW DELHI 110001
Tel: +91 11 3714644
Fax: +91 11 3755172

M. BALAKRISHNAN C. (D)

Officer (Telecom Policy & Planning)
Department of Telecommunications
Sanchar Bhavan
20, Ashoka Road
NEW DELHI 110001
Tel: +91 11 3711209
Fax: +91 11 3782344

M. JOSHI Mukund G. (D)

Member (Technology), Telecom. Commission
Department of Telecommunications
Sanchar Bhavan, 20 Ashoka Road
NEW DELHI 110001
Tel: +91 11 3714644
Fax: +91 11 3755172

M. SRINIVASAN Ramaswamaiah (D)

Adviser (Production) Telecom Commission
Department of Telecommunications
Sanchar Bhavan - 20, Ashoka Road
NEW DELHI 110001
Tel: +91 11 3710840
Fax: +91 11 3755172

Indonésie (République d')
Indonesia (Republic of)
Indonesia (República de)

M. PARAPAK Jonathan L. (C)

Secretary-General
Department of Tourism, Posts and Telecommunications
36, Kebon Sirih
JAKARTA 10110
Tel: +62 21 372306
Fax: +62 21 3887800

M. SIRAT Djamhari (CA)

Deputy Director-General
Department of Tourism, Posts and Telecommunications
36, Kebon Sirih
JAKARTA
Tel: +62 21 3845038
Fax: +62 21 3102254

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Indonésie (République d')
Indonesia (Republic of)
Indonesia (República de)

M. ATMANTO Inoar (D)

Official
Directorate General Postel
Jl. Merdeka Barat 21
JAKARTA SELATAN
Tel: +62 21 3802614
Fax: +62 21 3446771

M. KADJAR Gde Arsa (D)

Minister Counsellor
Embassy of Indonesia
Mariscal Ramón Casitlla 2901
BUENOS AIRES - Argentina
Tel: +54 1 8016655

M. KAMARGA Hardianto (D)

Department of Tourism, Posts and Telecommunications
36, Kebon Sirih
JAKARTA
Tel: +62 21 372306
Fax: +62 21 3887600

M. MANDUAPESY Jopie (D)

Department of Tourism, Posts and Telecommunications
36, Kebon Sirih
JAKARTA 10110
Tel: +62 21 372306
Fax: +62 21 3887600

M. SETIAWAN Suryatin (D)

Senior General Manager
Telkom Indonesia
Jl. Geger Kalong Hilir 47
BANDUNG 40152
Tel: +62 22 701024
Fax: +62 22 214669

M. SULISTYO Bambang (D)

Vice-President - PT. INDOSAT
Directorate General of Posts & Telecommunications (POSTEL)
Jl. Merdeka Barat No. 21
JAKARTA 10110
Tel: +62 21 3801362
Fax: +62 21 3440484

M. TAMPUBOLONG Irwan (D)

Department of Tourism, Posts and Telecommunications
36, Kebon Sirih
JAKARTA

M. WIDODO Makmur (D)

Counsellor
Permanent Indonesian Mission
16, rue St Jean
1203 GENEVA/Switzerland
Tel: +41 22 3455333
Fax: +41 22 3455733

Iran (République islamique d')
Iran (Islamic Republic of)
Irán (República Islámica del)

M. MANSOUR HOSSEINI Sayyed (C)

Deputy Managing Director
Telecommunication Company of Iran (TCI)
P.O. Box 931
TEHRAN
Tel: +98 21 860008
Fax: +98 21 850441

M. ALI ABOLFAZLI Abbas (D)

Ministry of Posts, Telegraph and Telephone
Telecommunication Company of Iran
P.O. Box 931
TEHRAN

M. MOHSEN ZADEH Ali Akbar (D)

Ministry of Posts, Telegraph, and Telephone
P.O. Box 931
TEHRAN
Tel: +98 21 8113423
Fax: +98 21 856151

M. NIKZAD Cyrus (D)

Expert
Ministry of Posts, Telegraph and Telephone
Telecommunication Company of Iran
P.O. Box 931
TEHRAN

M. PAKZAD GIVI Fariborz (D)

Ministry of Posts, Telegraph and Telephone
P.O. Box 931
TEHRAN
Tel: +98 21 6050088
Fax: +98 21 8822110

M. POURRANGNIA Ahmad (D)

Ministry of Posts, Telegraph and Telephone
P.O. Box 931
TEHRAN
Tel: +98 21 862539
Fax: +98 21 840268

M. RASHIDI MEHRABADI Reza (D)

Director, Planning & Engineering Department
Ministry of Posts, Telegraph, and Telephone
P.O. Box 931
TEHRAN
Tel: +98 21 8706341
Fax: +98 21 850441

M. STEPANIAN Valod (D)

Chief Engineer
I.R.I.B.
P.O. Box 15875-4344
TEHRAN
Tel: +98 21 966356
Fax: +98 21 291081

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Iran (République islamique d')
Iran (Islamic Republic of)
Irán (República Islámica del)

M. ZARRIN MOGHADDAM Hossein (D)
Telecommunication Expert
Ministry of Posts, Telegraph and Telephone
Room 152, TCT Imam Khomeiny SQ
TEHRAN
Tel: +98 21 3113036

Israël (Etat d')
Israel (State of)
Israel (Estado de)

M. WITMAN Izidore (D)
Bezeq Central District Manager
BEZEQ
P.O. Box 1088
91010 JERUSALEM
Tel: +972 2 395363/4
Fax: +972 2 259415

Italie
Italy
Italia

M. COSTA Emanuele (C)
Diplomatic Counsellor of the Minister
Ministero Poste e Telecomunicazioni
Viale America 201
00144 ROME
Tel: +39 6 59584208
Fax: +39 6 5432361

Mme DAMIA Giovanna (CA)
International Relation Office Director
Ministero Poste e Telecomunicazioni - Direzione Generale
Viale America
00100 ROMA
Tel: +39 6 59582725
Fax: +39 6 5405890

M. BASSO Carmelo (D)
Engineer
Ministero Poste e Telecomunicazioni
Via Europa 190
00144 ROMA
Tel: +39 6 59582883

Mme CERRITO Paola (D)
International Relations
Ministero Poste e Telecomunicazioni
Viale Europa, 190
ROMA
Tel: +39 6 54941

M. FLAVIANO Federico (D)
Engineer
Ministero Poste e Telecomunicazioni
Viale Europa 190
00144 ROMA
Tel: +39 6 59582883

M. NALIN Giorgio (D)
Engineer
Ministero Poste e Telecomunicazioni
Viale Europa, 190
00144 ROMA
Tel: +39 6 59582883

Mme PILERI Alessandra (D)
Director of the DPT - International Relations Office
Ministero Poste e Telecomunicazioni
Viale America 201
00144 ROME
Tel: +39 6 59584668
Fax: +39 6 5942405

M. TOMASINI Luigi (D)
Science Attaché
Embajada de Italia en Argentina
BUENOS AIRES - Argentina
Tel: +54 1 8054432

M. VANNI D'ARCHIRAFI Uberto (D)
Primer Secretario
Embajada de Italia en Argentina
Calle Billinghuest 2977
BUENOS AIRES - Argentina
Tel: +54 1 8029696

Japan
Japan
Japón

M. UTSUMI Yoshio (C)
Director-General, International Affairs Department
Ministry of Posts and Telecommunications
3-2, Kasumigaseki 1-chome Chiyoda-ku
TOKYO 100-90
Tel: +81 3 35044090
Fax: +81 3 35040884

M. YAMADA Toshiyuki (CA)
Director, Plenipot. Conf. Chairman's Off./Int. Org. Div./Int. Affairs Dept
Ministry of Posts and Telecommunications
3-2, Kasumigaseki 1-Chome - Chiyoda-ku
TOKYO 100-90
Tel: +81 3 35044661
Fax: +81 3 35040884

M. HASHIMOTO Satoru (D)
Advisor
Ministry of Posts and Telecommunications
3-2 Kasumigaseki 1-chome, Chiyoda-ku
TOKYO 100-90
Tel: +81 3 35098195
Fax: +81 3 35098609

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Japon
Japan
Japón

M. MATSUDAIRA Tsunekazu (D)

Advisor
Ministry of Posts and Telecommunications
3-2 Kasumigaseki 1-chome, Chiyoda-ku
TOKYO 100-90
Tel: +81 3 33476427
Fax: +81 3 33476470

M. NAKAMURA Yukio (D)

Advisor
Ministry of Posts and Telecommunications
3-2 Kasumigaseki 1-chome, Chiyoda-ku
TOKYO 100-90
Tel: +81 3 32313007
Fax: +81 3 32460495

M. NISHIHARA Akira (D)

Deputy Director, International Organizations Div., Int'l Affairs
Dept
Ministry of Posts and Telecommunications
3-2, Kasumigaseki 1-chome Chiyoda-ku
TOKYO 100-90
Tel: +81 3 35044792
Fax: +81 3 35040884

M. SUZUKI Noboru (D)

Advisor, MPT
Ministry of Posts and Telecommunications
3-2, Kasumigaseki 1-chome, Chiyoda-ku
TOKYO 100-90
Tel: +81 3 37986595
Fax: +81 3 37989213

M. SUZUKI Kaoru (D)

Senior Advisor, International Cooperation Div., Intern. Affairs
Dept
Ministry of Posts and Telecommunications
3-2 Kasumigaseki 1-chome, Chiyoda-ku
TOKYO 100-90
Tel: +81 3 35044972
Fax: +81 3 35010344

Jordanie (Royaume hachémite de)
Jordan (Hashemite Kingdom of)
Jordania (Reino Hachemita de)

S.E. M. SUHEIMAT Tareq (C)

Minister of Posts and Telecommunications
Ministry of Posts and Telecommunications
P.O. Box 1689
AMMAN
Tel: +962 6 638301
Fax: +962 6 627776

M. AL-NAWAWI Ahmad (D)

Jordan Telecommunications Corporation
P.O. Box 1689
AMMAN
Tel: +962 6 638301
Fax: +962 6 659666

M. FAWAEER Hani (D)

Jordan Telecommunications Corporation
P.O. Box 1689
AMMAN
Tel: +962 6 638301
Fax: +962 6 659666

Kenya (République du)
Kenya (Republic of)
Kenya (República de)

M. KITHINJI Genesisius (C)

Deputy Secretary
Kenya Government
P.O. Box 52692
NAIROBI
Tel: +254 2 729200
Fax: +254 2 726362

M. OGUTU Joseph (D)

Manager
Kenya Posts and Telecommunications Corporation
P.O. Box 30301
NAIROBI
Tel: +254 2 227401
Fax: +254 2 330435

M. ROTICH Julius Tangus (D)

Director
Kenya College of Communications Technology
P.O. Box 30305
NAIROBI
Tel: +254 2 891201
Fax: +254 2 891949

M. SHINGIRAH Reuben M.J. (D)

Assistant General Manager, Telecommunications
Kenya Posts and Telecommunications Corporation
P.O. Box 30301
NAIROBI
Tel: +254 2 227401 Ext. 2546
Fax: +254 2 334044

Kiribati (République de)
Kiribati (Republic of)
Kiribati (República de)

M. TEANAKO Inatio (C)

Manager
Telecom Kiribati Ltd
c/o Ministry of Transport, Communications & Tourism - P.O.
Box 487 BETIO
BAIRIKI TARAWA
Tel: +686 26036
Fax: +686 26193

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Koweït (Etat du)
Kuwait (State of)
Kuwait (Estado de)**

M. SALEEM Abdulkareem H. (C)
Assistant Under Secretary for Technical Affairs
Ministry of Communications
P.O. Box 316
11111 SAFAT, KUWAIT
Tel: +965 4832275
Fax: +965 4835720

M. ALQATTAN Hameed (CA)
Director, Technical Services Department
Ministry of Communications
P.O. Box 318
11111 SAFAT, KUWAIT
Tel: +965 4816602/4844319
Fax: +965 4812375

**L'ex-République yougoslave de Macédoine
The Former Yugoslav Republic of Macedonia
La ex República Yugoslava de Macedonia**

S.E. M. VELJANOV Mile (C)
Deputy Minister of Radiocommunications
Ministry for Physical Planning, Civil Engineering, Traffic &
Ecology
Dame Gruev Street, 14
91000 SKOPJE
Tel: +389 91 231307
Fax: +389 91 117163

M. ANGELEVSKI Maksim (CA)
Assistant General Director
PTT Macedonia
Orce Nikolov BB
91000 SKOPJE
Tel: +389 91 141000
Fax: +389 91 224277

Mme EFNUSEVA Menka (D)
Chief of Department/Development Sector
PTT Macedonia
Orce Nikolov BB
91000 SKOPJE
Tel: +389 91 141000
Fax: +389 91 224277

**Lao (République démocratique populaire)
Lao People's Democratic Republic
Lao (República Democrática Popular)**

M. PHOUTHONESY Somlith (D)
Deputy Director, Department of Posts & Telecommunications
Ministry of Communications, Transports, Posts & Construction
Jawaharlal Nehru Street
0100 VIENTIANE
Tel: +856 21 5005
Fax: +856 21 4919

**Lesotho (Royaume du)
Lesotho (Kingdom of)
Lesotho (Reino de)**

M. MOSHABESHA G.P. (C)
Deputy Principal Secretary
Ministry of Transport and Communications
P.O. Box 1037
MASERU 100
Tel: +266 211000
Fax: +266 310183

Mme MOHAPI Mapheko (CA)
Financial Accountant
Lesotho Telecommunication Corporation
P.O. Box 1037
MASERU
Tel: +9 266 324211
Fax: +9 266 310147

**Lettonie (République de)
Latvia (Republic of)
Letonia (República de)**

M. BERZINS Guntis (C)
Director
Ministry of Transport - Department of Communications
41/43 Elizabetes Str.
RIGA, LV-1010
Tel: +371 2 320297
Fax: +371 2 331920

**Liban
Lebanon
Líbano**

S.E. M. GEACHAN Michel (C)
Ambassador
Embassy in Buenos Aires
Av. Libertador 2354
BUENOS AIRES - Argentina

M. GHAZAL Maurice-Habib (C)
P.E.R. - Senior Chairman GAS/President Global Network
Ministry of Posts and Telecommunications
Avenue Riad el Solh
BEYROUTH
Tel: +9611200888/+33143067756
Fax: +33 14 7052242

Mme VIGUES Marta (D)
Ambassador's Secretary
Av. Libertador 2354
BUENOS AIRES - Argentina

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Libéria (République du)

Liberia (Republic of)

Liberia (República de)

M. DUOE G. Thomas M. (D)

Assistant Minister
Ministry of Posts & Telecommunications
G.P.O. Carey and McDonald Sts.
MONROVIA
Tel: +231 222331
Fax: +231 224451

Liechtenstein (Principauté de)

Liechtenstein (Principality of)

Liechtenstein (Principado de)

M. RIEHL Frédéric (C)

Vice-directeur, Service droit et affaires internationales
Office fédéral de la communication
Rue de l'avenir, 44
2503 BIENNE
Tel: +41 32 285444
Fax: +41 32 285555

Luxembourg

Luxembourg

Luxemburgo

M. GONY Michel (C)

Inspecteur - Conseiller Général
BELGACOM
Boulevard E. Jacqmain, 151
1210 BRUXELLES
Tel: +32 2 2028344
Fax: +32 2 2188209

Malaisie

Malaysia

Malasia

S.E. M. SAMY VELLU Dato' Sery S. (C)

Minister of Energy, Telecommunications and Posts
Kementerian Tenaga, Telekom Dan Pos
Tingkat 3, Wisma Damansara, Jalan Semantan
50668 KUALA LUMPUR
Tel: + 60 3 2562222
Fax: +60 3 2557901

S.E. M. MARZUKI Mohammad Noor (CA)

Ambassador of Malaysia
Embassy of Malaysia
BUENOS AIRES - Argentina

M. YUSOF Ismail (CA)

Deputy Secretary-General
Minister of Energy, Telecommunications and Posts
Tingkat 3, Wisma Damansara, Jalan Semantan
50668 KUALA LUMPUR

M. YUSOFF Mohamed Ali (CA)

Director-General
Jabatan Telekom Malaysia
Ground Floor - Wisma Damansara - Jalan Semantan
50668 KUALA LUMPUR
Tel: +60 3 2557700
Fax: +60 3 2530508

M. RAJARATNAM Joseph (D)

Senior General Manager (Business Marketing)
Telekom Malaysia Berhad
2nd Floor - Wisma Telekom - Jalan Pantai Baharu
59200 KUALA LUMPUR
Tel: +60 3 2392770
Fax: +60 3 2321100

M. RASHDAN Mohamed (D)

Executive Chairman and TDAB Member
Telekom Malaysia Berhad
2nd Floor - Wisma Telekom - Jalan Pantai Baharu
59200 KUALA LUMPUR
Tel: +60 3 2392090
Fax: +60 3 2328787

M. READ Harold (D)

Senior General Manager (International)
Telekom Malaysia Berhad
Wisma Telekom - Jalan Pantai Baharu
59200 KUALA LUMPUR
Tel: +60 3 2392420
Fax: +60 3 7558545

M. SELATHURAI Nadeson (D)

Ministry of Energy, Telecommunications & Posts
Wisma Damansara, Jalan Semantan
50668 KUALA LUMPUR
Tel: +60 3 2562222
Fax: +60 3 2557901

Mme WAN HAMID Wan Aishah (D)

Senior Vice President, Strategic Planning & Corporate Affairs
Cellular Communications Network (M) SDN BHD
1st Floor - Menara TR - 161B Jalan Ampang
50450 KUALA LUMPUR
Tel: +60 3 2623900
Fax: +60 3 2625900

M. ZAKARIAH Zamani (D)

Chief Executive Officer
MOBIKOM Sdn. Bhd
14th Floor, Bgn. Getah Asli (Menara)
148 Jalan Ampang
50450 KUALA LUMPUR
Tel: +603 2613800
Fax: +603 2625800

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Malawi
Malawi
Malawi**

M. MAKAWA Mike (C)

Deputy Engineer-in-Chief
Department of Posts & Telecommunications Headquarters
P.O. Box 537
BLANTYRE
Tel: +265 620977
Fax: +265 620188

M. CHIPOFYA James Myange (CA)

Chief Assistant Engineer
Malawi Government, Dep. of Posts and Telecommunications
P.O. Box 537
BLANTYRE
Tel: +265 620977
Fax: +265 622224

**Maldives (République des)
Maldives (Republic of)
Maldivas (República de)**

M. SHAREEF Hussain (C)

Director General
Department of Posts & Telecommunications
Postel Building - 34 Marine Drive
MALE 2004
Tel: +960 323455
Fax: +960 320000

**Mali (République du)
Mali (Republic of)
Malí (República de)**

M. BA Mamadou (C)

Chargé de missions
Société des télécommunications du Mali - SOTELMA
Route de Koulikoro - B.P. No. 740
BAMA KO
Tel: +223 225280
Fax: +223 223022

M. TOURE Diadie (D)

Chef Service Prospective et Relations Internationales
Société des télécommunications du Mali (SOTELMA)
BAMA KO
Tel: +223 227595
Fax: +223 223022

**Malte
Malta
Malta**

S.E. M. ZAMMIT DIMECH Francis (C)

Minister for Transport and Communications
Ministry for Transport and Communications
LASCARIS, VALLETTA
Tel: +356 240780
Fax: +356 243306

M. CAMILLERI John (D)

Deputy Chairman
Telemalta Corporation
Pender Place
ST. JULIAN'S
Tel: +356 243033
Fax: +356 240761

M. DE BONO Anthony (D)

General Manager and TDAB Member
Telemalta Corporation
Pender Place
ST JULIAN'S
Tel: +356 242164
Fax: +356 242000

M. TSOLIS Basilio (D)

Consul
Consulado de Malta
Viamonte 783
1053 BUENOS AIRES - Argentina
Tel: +54 1 3250741
Fax: +54 1 3227637

M. FENECH Godfrey (D)

Secretary to Minister for Transport and Communications
Ministry for Transport and Communications
LASCARIS, VALLETTA
Tel: +356 240780
Fax: +356 243306

M. AZZOPARDI CAFFARI Ronald (D)

Deputy Head of Telecommunications
Telemalta Corporation
Pender Place
ST. JULIAN'S
Tel: +356 247971
Fax: +356 376000

**Maroc (Royaume du)
Morocco (Kingdom of)
Marruecos (Reino de)**

S.E. M. AHIZOUNE Abdeslam (C)

Ministre des Postes et Télécommunications
Ministère des Postes et Télécommunications
Av. Moulay Hassan
RABAT
Tel: +212 7702047
Fax: +212 7201750

M. BERRADA Abderrazak (CA)

Counsellor
Ministère des postes et des télécommunications
1, chemin Maurice Ravel
1290 VERSOIX
Tel: +41 22 7556507
Fax: +41 22 7556566

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Maroc (Royaume du)
Morocco (Kingdom of)
Marruecos (Reino de)

M. CHERKAOUI Abdelmalek (CA)

Ambassadeur
Ambassade du Maroc
BUENOS AIRES - Argentina

M. WAKRIM Mohamed (CA)

Directeur des Relations Internationales
Ministère des Postes et Télécommunications
Avenue Moulay Hassan
RABAT
Tel: + 212 7701167
Fax: + 212 7705641

Mme KAIDI Fatima (D)

Chef de la Division Plan et Stratégie
Ministère des Postes et Télécommunications
Avenue Moulay Hassan
RABAT
Tel: + 212 7702095
Fax: + 212 7705641

M. RHAZLANE M'Hamed (D)

Directeur de Cabinet de M. le Ministre des Postes et Télécom.
Ministère des Postes et Télécommunications
Av. Moulay Hassan
RABAT
Tel: + 212 7700116
Fax: + 212 7201750

Maurice (République de)
Mauritius (Republic of)
Mauricio (República de)

M. TAUKOORDASS Soorundresing (C)

Principal Assistant Secretary
Ministry of Internal and External Communications
PORT LOUIS
Tel: + 230 2011089
Fax: + 230 2081673

Mauritanie (République islamique de)
Mauritania (Islamic Republic of)
Mauritania (República Islámica de)

M. BOUCEIF Mohamed Ould (C)

Directeur général
Office des Postes et des Télécommunications
NOUAKCHOTT
Tel: + 222 2 52340

M. LEMINE Sidi Ould Mohamed (D)

Chef du Département Planification des télécommunications
Office des Postes et des Télécommunications
NOUAKCHOTT
Tel: + 222 2 52340

Mexique
Mexico
México

M. BROWN HERNANDEZ Luis Manuel (CA)

Subdirector de Asuntos Internacionales
Secretaría de Comunicaciones y Transportes
Av. Eugenia 197 Edif. San Rafael 4o. piso
Col. Narvarte C.P. 03020
MEXICO, D.F.
Tel: + 52 5 6826278
Fax: + 52 5 6690536

M. HERNANDEZ GONZALEZ José de Jesús (CA)

Subdirector de Asuntos Internacionales de Telecomunicaciones
Secretaría de Comunicaciones y Transportes
Av. Eugenia 197 Edif. San Rafael, 4o piso
Col. Narvarte, C.P. 03020
MEXICO, D.F.
Tel: + 52 5 6826170
Fax: + 52 5 6690536

M. PADILLA LONGORIA José Antonio (CA)

Coordinador de Relaciones Internacionales
Secretaría de Comunicaciones y Transportes
Av. Eugenia 197 Edif. San Rafael
Col. Narvarte C.P. 03020
MEXICO, D.F.
Tel: + 52 5 6690561
Fax: + 52 5 6690536

M. CERVANTES Enrique (D)

Director de Planeación
Secretaría de Comunicaciones
Eje Central 5760
MEXICO D.F.
Tel: + 525 5300114
Fax: + 525 7099638

M. NAVARRO BECERRA Simón Ernesto (D)

Segundo Secretario
Embajada de México en Argentina
BUENOS AIRES - Argentina

M. PEREZ Victor (D)

CANIECE
Cámara Nacional de la Industria Electrónica y de
Comunicaciones Eléctricas
Tonalá 59 Col. Roma
MEXICO 06700
Tel: + 525 2072755
Fax: + 525 2072755

Monaco (Principauté de)
Monaco (Principality of)
Mónaco (Principado de)

M. ERIZE Luis (C)

Consul
Consulado de Mónaco
Avenida Madero 1020, 5o Piso
BUENOS AIRES - Argentina
Tel: + 54 1 312 7526
Fax: + 54 1 3113560

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Mozambique (République du)
Mozambique (Republic of)
Mozambique (República de)

M. FERNANDES Rui (C)
Chairman and Managing Director - TDAB Member
Empresa Nacional de Telecomunicações de Moçambique
Rua da Sé No. 2 - P.O.Box 25
MAPUTO
Tel: +258 1 431921
Fax: +258 1 431944

Myanmar (Union de)
Myanmar (Union of)
Myanmar (Unión de)

M. U YE WIN (C)
Deputy General Manager
Myanmar Posts and Telecommunications
43, Bo Aung Gyaw Street
YANGON
Tel: +95 1 87228
Fax: +95 1 89911

Namibie (République de)
Namibia (Republic of)
Namibia (República de)

M. OCKHUIZEN Welbert (C)
General Manager
Telecom Namibia
P.O. Box 297
WINDHOEK
Tel: +264 61 2019111
Fax: +264 61 223323

M. TJOMBE Ferdinand (D)
Senior Manager: Public Relations
Namibia Telecom
P.O. Box 297
WINDHOEK
Tel: +264 61 2012549
Fax: +264 61 223323

Népal
Nepal
Nepal

M. BORA Gajendra Singh (C)
General Manager
Nepal Telecommunications Corporation
Central Office - Singhdurbar, Putli Bagaicha
KATHMANDU
Tel: +977 1 215444/220250
Fax: +977 1 226260

Nicaragua
Nicaragua
Nicaragua

S.E. M. BERGMAN Gilberto (D)
Ambassador of Nicaragua
Embassy of Nicaragua
BUENOS AIRES - Argentina
Tel: +54 1 9513463
Fax: +54 1 9527557

Niger (République du)
Niger (Republic of the)
Níger (República del)

S.E. M. LABO Abdou (C)
Secrétaire d'Etat à la Communication
Ministère de la Communication, Culture, Jeunesse & des Sport
NIAMEY
Tel: +227 733112
Fax: +227 722336

M. GUIMBA Saidou (D)
Directeur général
Société des Télécommunications Internationales du Niger (STI)
B.P. 208
NIAMEY
Tel: +227 722857
Fax: +227 733569

M. SADOU Moussa (D)
Chef, Division Etude et Planifications TELECOM
Direction Générale de l'Office des P&T
NIAMEY
Tel: +227 722240
Fax: +227 735812

Nigéria (République fédérale du)
Nigeria (Federal Republic of)
Nigeria (República Federal de)

S.E. M. ABUBAKAR RIMI Mohammed (C)
Minister of Communications
Federal Ministry of Communications
Lafiaji
LAGOS
Tel: +234 1 2630959
Fax: +234 1 616054

M. MATANKARI Solomon, Danasabe (CA)
Director (Planning, Research & Statistics)
Federal Ministry of Communications
Lafiaji
LAGOS
Tel: +234 1 2631911
Fax: +234 1 616054

M. AWOFESO Seyi Olu (D)
Ministry of Communications
7th floor, Headquarters
LAGOS
Tel: +234 1 2647988
Fax: +234 1 616054

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Nigéria (République fédérale du) **Nigeria (Federal Republic of)** **Nigeria (República Federal de)**

S. E. M. BUBUKO Joseph (D)

Minister/Chargé d'affaires a.i.
Embassy of Nigeria
2674 Rosales Olivos
BUENOS AIRES - Argentina
Tel: +54 1 7907564

M. IROMANTU O.C. (D)

Managing Director - Chief Executive
Nigerian Communications Commission
Ministry of Communications - Lafiaji
LAGOS
Tel: +234 1 2630959
Fax: +234 1 616054

M. KUNDERA Michael (D)

Telecommunications Engineer
Federal Ministry of Communications
Technical Services Dept., Lafiaji
LAGOS
Tel: +234 1 2630736

M. MOHAMMED Isaiah Abdullah (D)

Nigeria Telecommunications PLC
3/5 Tafawa Balewa Square
LAGOS
Tel: +234 1 2600770

M. TIJJANI Aminu (D)

Technical Assistant to the Hon. Minister
Federal Ministry of Communications
Lafiaji
LAGOS
Tel: +234 1 2618094
Fax: +234 1 616054

M. UMAR Sani (D)

Personal Assistant to the Minister
Federal Ministry of Communications
Lafiaji
LAGOS
Tel: +234 1 22647988
Fax: +234 1 616054

Norvège **Norway** **Noruega**

M. LANDEIDE Eugen (C)

Director Network and Services Department
Norwegian Telecommunications Regulatory Authority
P.O. Box 2592 Solli
0203 OSLO
Tel: +47 22 926600
Fax: +47 22 557106

S. E. M. TELLMANN Erik (C)

Ambassador
Norwegian Embassy in Argentina
BUENOS AIRES - Argentina
Tel: +54 1 3122204

M. IVERSEN Oeistein (D)

Advisor
Norwegian Agency for Development Cooperation
P.O. Box 8034
0030 OSLO
Tel: +47 22 314563
Fax: +47 22 314402

M. KVALE Oddvar (D)

Telecommunications Management Specialist
Royal Ministry of Foreign Affairs
c/o Helge Semb, Bank Section, P.O. Box 8114
0032 OSLO
Tel: +47 22 343600
Fax: +47 22 838234

Oman (Sultanat d')

Oman (Sultanate of)

Omán (Sultanía de)

M. AL-RAWAHY Abdullah Isa (D)

Director General Strategic Planning & Projects
Ministry of Posts, Telegraphs & Telephones
General Telecommunication Organization
P.O. Box 789
MUSCAT 112
Tel: +968 697573
Fax: +968 697216

M. ALTAEI Mazin Abdullah (D)

Director, Management Services & Public Relations
Ministry of Posts, Telegraphs & Telephones
General Telecommunication Organization
P.O. Box 789
MUSCAT 112
Tel: +968 697573
Fax: +968 697216

Ouganda (République de l')

Uganda (Republic of)

Uganda (República de)

M. WANYAMA Wilson Otonyo (C)

Permanent Secretary
Ministry of Works, Transport and Communications
P.O. Box 10
ENTEBBE
Tel: +256 41 20101
Fax: +256 042 20135

M. MUBIRU Abdul Musoke (CA)

Acting Managing Director
Uganda Posts and Telecommunications Corporation
PO Box 7171
KAMPALA
Tel: +256 41 258855
Fax: +256 41 245907

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Ouganda (République de l')
Uganda (Republic of)
Uganda (República de)

M. BAKARUHIRE John (D)

Acting Chief of Planning
Uganda Posts and Telecommunications Corporation
P.O. Box 7171
KAMPALA
Tel: + 256 41 246455
Fax: + 256 41 245907

M. OWOR Steven (D)

General Manager, Corporate Planning and System
Uganda Posts and Telecommunications Corporation
P.O. Box 7171
KAMPALA
Tel: + 256 41 20101
Fax: + 256 042 20135

Pakistan (République islamique du)
Pakistan (Islamic Republic of)
Pakistán (República Islámica del)

M. MASOOD Ahmed (C)

Chairman
Pakistan Telecommunication Corporation
Headquarters, Rizwan Centre 85 West
Blue Area
ISLAMABAD
Tel: + 92 51 844463
Fax: + 92 51 843991

M. WASIQ Mehmood (D)

Chief Engineer (Planning)
Pakistan Telecommunication Corporation
Headquarters, Rizwan Centre 85 West
Blue Area
ISLAMABAD
Tel: + 92 51 256489
Fax: + 92 51 851579

Panama (République du)
Panama (Republic of)
Panamá (República de)

M. DENIS DURAN Francisco (C)

Gerente General
INTEL
Apartado 659
PANAMA 9A
Tel: + 507 695050
Fax: + 507 645743

Mme VIEJO Isabel (CA)

Asistente de la Gerencia General
Instituto Nacional de Comunicaciones
Via España - Edificio Aveza
PANAMA
Tel: + 707 697111
Fax: + 707 638201

Mme LOPEZ Maribel (D)

Gerente Ejecutiva de Compras
INTEL
Apartado 659
PANAMA 9A
Tel: + 507 644709
Fax: + 507 232738

Papouasie-Nouvelle-Guinée
Papua New Guinea
Papua Nueva Guinea

M. LAILAI Lindsay (CA)

Secretary
Post & Telecommunications Corporation
Department of Communications - PO Box 1424
PORT MORESBY

M. DE SOYZA Annesley (D)

Manager, Spectrum Branch
Post & Telecommunications Corporation
P.O. Box 1783
PORT MORESBY
Tel: + 675 274533
Fax: + 675 212199

M. GAGAU Steven (D)

Assistant General Manager, International Relations
Post & Telecommunications Corporation
P.O. Box 56
PORT MORESBY
Tel: + 675 274212
Fax: + 675 250513

M. KAMBLIJAMBI John (D)

Director, Communication Services
Post & Telecommunications Corporation
P.O. Box 1349
BOROKO
Tel: + 675 274626
Fax: + 675 250665

M. LITAU Charles (D)

Systems Development Engineer
Post & Telecommunications Corporation
Telekom International Relations - P.O. Box 56
PORT MORESBY
Tel: + 675 274267
Fax: + 675 250513

M. TARA Erry (D)

Principal Technical Officer
Post & Telecommunications Corporation
Department of Communications - PO Box 1424
PORT MORESBY
Tel: + 675 253188
Fax: + 675 214254

Papouasie-Nouvelle-Guinée
Papua New Guinea
Papua Nueva Guinea

M. WAINGUT John O. (D)
 Director Engineering Services
 National Broadcasting Commission
 P.O. Box 1359
 BOROKE
 Tel: +675 256470
 Fax: +675 2554403

Paraguay (République du)
Paraguay (Republic of)
Paraguay (República del)

M. GAONA Carlos María (C)
 Miembro del Consejo de ANTELCO
 Administración Nacional de Telecomunicaciones (ANTELCO)
 Alberdi y Gral Diaz
 ASUNCION
 Tel: +595 21 444273
 Fax: +595 21 203888

M. REINOSO Luis A. (CA)
 Director Internacional
 Administración Nacional de Telecomunicaciones (ANTELCO)
 M. Bullo y M. Dominguez
 ASUNCION
 Tel: +595 21 444273
 Fax: +595 21 203888

M. JIMENEZ MEZA Edgar Antonio (D)
 Miembro del Consejo de Administración
 ANTELCO
 Independencia Nacional 755 - 7 piso
 ASUNCION
 Tel: +541 450340
 Fax: +541 446652

Pays-Bas (Royaume des)
Netherlands (Kingdom of the)
Países Bajos (Reino de los)

M. VERVLOED Hans (C)
 Consejero
 Embajada Real de los Países Bajos
 Avenida de Mayo 701, Piso 19
 BUENOS AIRES - Argentina
 Tel: +54 1 3344000
 Fax: +54 1 3342717

Mme KORZELIUS Monique (CA)
 Secretario
 Embajada de los Países Bajos
 Avenida de Mayo 701, Piso 19
 BUENOS AIRES - Argentina
 Tel: +54 1 3344000
 Fax: +54 1 3342717

M. DIJKXHOORN Johan (D)
 Dr. Engineer - Senior Consultant
 NEPOSTEL / Dutch PTT
 P.O. Box 30000
 2500 GA THE HAGUE
 Tel: +31 70 3323990
 Fax: +31 70 3324029

M. PAYMANS John F.H. (D)
 Royal PTT Nederland NV
 P.O. Box 30000
 2500 GA THE HAGUE
 Tel: +31 70 3432436
 Fax: +31 70 3432894

Pérou
Peru
Perú

S.E. M. CONTRERAS LOPEZ Willy (C)
 Vice Ministro de Comunicaciones
 Ministerio de Transportes, Comunicaciones, Vivienda y
 Construcción
 Av. 28 de Julio No. 800
 LIMA 1
 Tel: +51 14 332707
 Fax: +51 14 334833

M. CHIAN Carlos (CA)
 Asesor Vice Ministro de Comunicaciones
 Ministerio de Transportes, Comunicaciones, Vivienda y
 Construcción
 Av. 28 de Julio No. 800
 LIMA
 Tel: +51 14 334656
 Fax: +51 14 334833

M. CAMPOBLANCO Abel (D)
 Gerente Relaciones Internacionales
 Compañía Peruana de Teléfonos S.A.
 Av. Arequipa 1155 - Lince
 LIMA 16
 Tel: +51 14 710002

M. ESCAFFI KAHATT José (D)
 Ministerio de Transportes, Comunicaciones, Vivienda y
 Construcción
 Av. 28 de Julio No. 800
 LIMA
 Tel: +51 14 339898
 Fax: +51 14 334833

M. KUNIGAMI K. Jorge (D)
 Ministerio de Transportes, Comunicaciones, Vivienda y
 Construcción
 Av. 28 de Julio No. 800
 LIMA
 Tel: +51 14 339898
 Fax: +51 14 334833

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Pérou
Peru
Perú**

M. SANCHEZ Jorge (D)

Gerente Central de Planificación Empresarial
Compañía Peruana de Teléfonos
Ac. Arequipa Mo. 1155
LIMA

M. SANDOVAL Jaime (D)

Gerente de Planeamiento
Ministerio de Transportes y Comunicaciones
Av. San Luis 1106
SAN LUIS, LIMA
Tel: +51 14 735765
Fax: +51 14 735765

**Philippines (République des)
Philippines (Republic of the)
Filipinas (República de)**

S.E. Mme LICHAUCO Josefina (C)

Undersecretary (Deputy Minister) for Communications
Department of Transportation and Communications
5th Floor PhilComcen Building, Ortigas Avenue, Pasig
METRO MANILA
Tel: +63 2 6316219
Fax: +63 2 6329316

Mme HECETA Kathleen (CA)

Director, Legal Department National Telecom Commission
Dept. of Transportation & Communications
NATELCOM 865 Vibal Bldg., Edsa Corner Times Str.
MANILA

S.E. M. VILLA ABRILLE Carlos Alberto (CA)

Embajador de Filipinas en Argentina
Embajada de Filipinas en Buenos Aires
Juramento 1945
1428 BUENOS AIRES - Argentina
Tel: +54 1 7814173
Fax: +54 1 7838171

M. ABEGANIA Cesar (D)

Director of Legal Affairs
GMCR Inc.
19th Floor, BPI Paseo de Roxas Condominium Center
MAKATI METRO MANILA
Tel: +63 2 813 7510

M. ABIGANIA Cesar (D)

Director-Legal Services
19th Floor, BPI Paseo de Roxas Condominium Center
8753 Paseo de Roxas, Salcedo Village
MAKATI METRO MANILA
Tel: +63 2 8137510
Fax: +63 2 8137519

M. AFRICA Jose L. (D)

Senior Vice President
Dep. of Transportation and Communications
Philcomsat, 316 Sen. Gil Puyat Avenue
1200 MAKATI METRO MANILA
Tel: +63 2 8175692
Fax: +63 2 8179430

Mme ESTRADA Josefina (D)

Third Secretary
Embajada de Filipinas en Buenos Aires
Juramento 1945
BUENOS AIRES - Argentina
Tel: 7814173
Fax: 7838171

M. LIM George (D)

Marketing Center, Head
Philippine Long Distance Telephone Company
5/F Allied Bank Building, Ayala Avenue
METRO MANILA
Tel: +63 2 8175131
Fax: +63 2 8104365

M. ONG Antonio (D)

Vice President, Regulatory Affairs & Traffic Accounting
Dept. of Transportation and Communications
PhilComcen Building, Ortigas Avenue, Pasig
METRO MANILA
Tel: +63 2 8162851
Fax: +63 2 8187690

M. ROXAS Jose P. (D)

Senior Vice President
Dept. of Transportation and Communication
ETPI Telecoms Plaza Building, 316 Sen. G. Puyat Av.
MAKATI METRO MANILA
Tel: +63 2 8172117
Fax: +63 2 8164322

Mme SANTIAGO Marylin Eleanor (D)

President
Philippine Electronic and Telecommunications Fed.
6th Floor, Telecoms Plaza, 316 Sen. Gil Puyat Avenue Salcedo
Village
MAKATI METRO MANILA
Tel: +63 2 8136398
Fax: +63 2 8136397

M. VIRATA Nestor (D)

First Vice President
Dept. Transportation and Communications
PLDT Co. Makati Avenue Cor. De la Rosa
MAKATI METRO MANILA
Tel: +63 2 8174600
Fax: +63 2 8182407

Pologne (République de)
Poland (Republic of)
Polonia (República de)

S.E. M. ZIELINSKI Andrzej (C)

Minister of Posts and Telecommunications
 Ministry of Posts and Telecommunications
 Plac Malachowskiego 2
 00-940 WARSAW
 Tel: +48 22 275400
 Fax: +48 22 264840

M. ZURAWSKI Miroslaw (CA)

Director, Technology and Development Department
 Ministry of Posts and Telecommunications
 Plac Malachowskiego 2
 00-940 WARSAW
 Tel: +48 2 6284891
 Fax: +48 2 6217109

M. GADOMSKI Jacek (D)

President of Telekomunikacja Polska SA
 Polish Telecommunications Company
 00-945 WARSAW

M. GORSKI Ryszard (D)

Director of Minister's Cabinet
 Ministry of Posts and Telecommunications
 Plac Malachowskiego 2
 00-940 WARSAW
 Tel: +48 22 266556
 Fax: +48 22 266556

M. GUZEK Jerzy (D)

Director, Technology and Development Bureau
 Polish Telecommunications Company
 UL.Swietokrzyska 3
 00-945 WARSAW
 Tel: +48 22 268742
 Fax: +48 22 268528

M. KSIEZNY Andrzej (D)

Director, Foreign Cooperation and Frequency Management
 Department
 National Radiocommunication Agency
 UL.Kasprzaka 18/20
 01-211 WARSAW
 Tel: +48 39 123022
 Fax: +48 39 123022

S.E. M. WROBEL Andrzej (D)

Embajador
 Embajada de Polonia en Argentina
 A. M. de Aguado 2870
 BUENOS AIRES - Argentina
 Tel: +54 1 8029081
 Fax: +54 1 8029683

Portugal
Portugal
Portugal

Mme BOTELHO Maria de Fátima (C)

Senior Adviser - International Affairs
 Instituto das Comunicações de Portugal
 Avenida José Malhoa, No. 21/21A - 7 piso
 1000 LISBOA
 Tel: +351 1 7269223/ext.2704
 Fax: +351 1 7263749

République arabe syrienne
Syrian Arab Republic
República Arabe Siria

M. OBEID Makram (C)

Chairman-General Director
 Syrian Telecommunication Establishment
 Sandallah Jabiri Street
 DAMASCUS
 Tel: +963 11 240300
 Fax: +963 11 242000

République slovaque
Slovak Republic
República Eslovaca

S.E. M. ZEMAN Vladimir (C)

Vice-Minister
 Ministry of Transport and Communications
 Mileticova 19
 82006 BRATISLAVA 26
 Tel: +42 7 254001
 Fax: +42 7 64790

Mme DEMUSOVA Jirina (D)

Chef de Section
 Slovak Telecommunications
 BRATISLAVA
 Tel: +427 495593
 Fax: +427 495593

M. KOLEK Juraj (D)

Director of Section for Technical Development
 SLOVAK TELECOM
 Slobody 6
 817 62 BRATISLAVA
 Tel: +42 7 492929
 Fax: +42 7 493716

M. KUCHAR Bohdan (D)

Consejero
 Embajada de Eslovaquia en Argentina
 Av. Figuero Alcorta 3240
 BUENOS AIRES - Argentina
 Tel: +54 1 8093804
 Fax: +54 1 8014654

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**République slovaque
Slovak Republic
República Eslovaca**

M. ONDROVIC Vladimir (D)

General Director
SLOVAK TELECOM
Slobody 6
817 62 BRATISLAVA
Tel: +42 7 492324
Fax: +42 7 492492

**République tchèque
Czech Republic
República Checa**

M. SEDLACEK Vladimir (C)

Director of Telecommunications Department
Ministry of Economy
Staroměstské Náměstí 6
11015 PRAGUE 1
Tel: +42 2 2317930
Fax: +42 2 24897410

Mme GURLICHOVA Marcela (D)

Head of International Relations Division, Telecom. Dept
Ministry of Economy
Staroměstské Náměstí 6
11015 PRAGUE 1
Tel: +42 2 24897415
Fax: +42 2 24897487

M. PROKOPIK Ivan (D)

Head of Department
SPT Telecom, A.S.
Olsanská 5
130 00 PRAHA
Tel: +42 2 67142473
Fax: +42 2 6280440

M. SCHNEIDER Slavomil (D)

Senior Counsellor
SPT Telecom, A.S.
Olsanská, 5
130 00 PRAHA
Tel: +42 2 67143989
Fax: +42 2 6280439

**Roumanie
Romania
Rumania**

M. SERBANESCU Constantin Eugen (C)

General Director
Ministry of Communications
Boulevard Libertatii 14
70060/5 BUCAREST
Tel: +40 1 4001734
Fax: +40 1 3125642

**Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
United Kingdom of Great Britain & Northern Ireland
Reino Unido de Gran Bretaña e Irlanda del Norte**

S.E. M. HALL Peter (C)

Ambassador to Argentina
BUENOS AIRES - Argentina

M. JOHNSON Malcolm (CA)

Head, International Coordination and Regulation
Radiocommunications Agency
Waterloo Bridge House, Waterloo Road
LONDON SE1 8UA
Tel: +44 71 2152149
Fax: +44 71 6339231

M. HALL David (D)

Manager, ITU & Commonwealth Affairs
Cable & Wireless Network Services
90, Long Acre
LONDON WC2E 9SL
Tel: +44 71 3154971
Fax: +44 71 315 5119

M. LONGSTAFF Carlos (D)

Asesor Comercial
Embajada Británica
Dr. Luis Agote 2412
1425 BUENOS AIRES - Argentina
Tel: +54 1 8066220
Fax: +54 1 8065713

M. LUCAS Wyn (D)

Manager International Organisations
British Telecom
Holborn Centre - 120 Holborn
LONDON EC1N 2TE
Tel: +44 71 4922294
Fax: +44 71 4922631

M. MELLOR D. (D)

Cable & Wireless Network Services
90, Long Acre
LONDON WC2E 9SL
Fax: +44 71 3155119

M. PEACE Michael (D)

General Manager
British Telecom
Dukes House, 8-10
Wellington Street
SLOUGH, BERKS
Tel: +44 753 878555
Fax: +44 753 692213

M. STEWART Rodney (D)

Radiocommunications Agency
Waterloo Bridge House, Waterloo Road
LONDON SE1 8UA
Tel: +44 71 2152149
Fax: +44 71 6339231

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
United Kingdom of Great Britain & Northern Ireland
Reino Unido de Gran Bretaña e Irlanda del Norte

M. WILSON John (D)

Head, International & Carrier Relations
CABLE & WIRELESS
90, Long Acre
LONDON WC2E 9SL
Tel: +44 71 3154709
Fax: +44 71 3156474

Russie (Fédération de)
Russian Federation
Rusia (Federación de)

S.E. M. KRUPNOV Aleksandr E. (C)

First Deputy Minister of Telecommunications
Ministry of Posts and Telecommunications
7, Tverskaya Str.
103375 MOSCOW
Tel: +7 095 2924821
Fax: +7 095 2302097

M. TIMOFEEV Valery V. (CA)

Vice-President
State Commission on Frequency Management
5, Delegatskaja Str.
103091 MOSCOW
Tel: +7 095 2927200
Fax: +7 095 2302097

M. TOLMACHEV Yuri A. (CA)

Vice-President
State Telecommunications Committee
7, Tverskaya Str.
103375 MOSCOW
Tel: +7 095 9252823
Fax: +7 095 2302097

M. KORBUT Nikolai E. (D)

Director, International Organisations Division
Ministry of Posts and Telecommunications
Department for International Cooperation
7, Tverskaya Str.
103375 MOSCOW
Tel: +7 095 2922457
Fax: +7 095 2302097

M. KOUCHTOUEV Alexandre I. (D)

First Deputy Director
Radio Research Institute
16, Kazakova Str.
103064 MOSCOW
Tel: +7 095 9752248
Fax: +7 095 2610090

Mme KREINGEL Irina V. (D)

Director, International Cooperation Department
State Telecommunications Committee
7, Tverskaya Str.
103375 MOSCOW
Tel: +7 095 2016452
Fax: +7 095 2302097

Mme KREPKOGORSKAYA Elena V. (D)

Expert
Ministry of Posts and Telecommunications
Department for International Cooperation
7, Tverskaya Str.
103375 MOSCOW
Tel: +7 095 2016217
Fax: +7 095 2302097

M. KRIVOCHEEV Mark (D)

Professor, Chairman of SG11 ITU-R - Head, TV Dept in Radio
Research Ins.
TV Department in Radio Research
16, Kasanova St.
MOSCOW 104064
Tel: +7 095 1253582
Fax: +7 095 2610090

M. MATROSSOV Valery M. (D)

Senior Specialist
International Cooperation Department
State Telecommunications Committee
7, Tverskaya Str.
103375 MOSCOW
Tel: +7 095 2016268
Fax: +7 095 2302097

M. ZADOV Alexander S. (D)

Deputy Director General
Executive Committee
7, Tverskaya Str.
103375 MOSCOW
Tel: +7 095 2923938
Fax: +7 095 2927043

M. ZVEDRE Evgueni K. (D)

Head of Division (Space and Telecommunications)
Ministry of Foreign Affairs
32/34 Smolenskaya/Sennaya Str.
121200 MOSCOW
Tel: +7 095 2442694
Fax: +7 095 2539083

Rwandaise (République)
Rwandese Republic
Rwandesa (República)

M. NIYONSENGA Cyprien (D)

Chef de Division des Télécommunications
Ministère des Transports et des Communications
B.P. 720
KIGALI
Tel: +250 77800
Fax: +250 73110

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Saint-Marin (République de)
San Marino (Republic of)
San Marino (República de)**

M. CAPICCHIONI Luciano (CA)

General Director of P & T
Direzione Generale Poste e Telecomunicazioni
Contrada Omerelli 17
SAN MARINO
Tel: +378 882555
Fax: +378 992760

M. CARATIONI Corrado (CA)

Deputy Secretary of Minister of P & T
Dicastero Com. e Transporti
Contrada Omagnano 11
SAN MARINO
Tel: +378 882420
Fax: +378 992998

M. GRANDONI Ivo (CA)

Assistant Director of TLC
Direzione Generale Poste e Telecomunicazioni
Contrada Omerelli 17
SAN MARINO
Tel: +378 882555
Fax: +378 992760

**Samoa-Occidental (Etat indépendant du)
Western Samoa (Independent State of)
Samoa Occidental (Estado Independiente de)**

M. AH SAM Asamu (D)

Telecommunications Controller
Post and Telecommunications Department
c/ Chief, Post Office
APIA
Tel: +685 23456
Fax: +685 24000

**Sénégal (République du)
Senegal (Republic of)
Senegal (República del)**

M. MBAYE Cheikh Tidiane (C)

Directeur général
SONATEL
6 Rue Wagane Diouf
DAKAR
Tel: +221 234133
Fax: +221 235444

M. MBAYE Souleymane (CA)

Directeur Coopération et Relations internationales
Société Nationale des Télécommunications du Sénégal
(SONATEL)
6, rue Wagane Diouf - Boîte Postale 69
DAKAR
Tel: +221 216275
Fax: +221 221492

**Singapour (République de)
Singapore (Republic of)
Singapur (República de)**

M. KENG THAI Leong (CA)

Director
Telecommunication Authority of Singapore
31 Exeter Road, #05-00 Comcentre
SINGAPORE 0923
Tel: +65 7396809
Fax: +65 7330073/74

Mme D'COSTA Valerie (D)

International Affairs Officer
Telecommunication Authority of Singapore
31 Exeter Road, #28-00 Comcentre
SINGAPORE 0923
Tel: +65 7396864
Fax: +65 7330079

M. HAN KOON Teo (D)

Engineer
Singapore Broadcasting Corporation
Caldecott Hill, Andrew Road
SINGAPORE 1129
Tel: +65 3503124
Fax: +65 2538808

**Soudan (République du)
Sudan (Republic of the)
Sudán (República del)**

Mr. GAMAL Abdelwahab (C)

Senior Advisor
Sudan Telecommunications Public Corporation (STPC)
Ministry of Public Communications
KHARTOUM
Tel: +249 11 78878
Fax: +249 11 81009

**Sri Lanka (République socialiste démocratique de)
Sri Lanka (Democratic Socialist Republic of)
Sri Lanka (República Socialista Democrática de)**

M. WICKRAMARACHI P. K. (C)

Managing Director
Sri Lanka Telecom
P.O. Box 503
COLOMBO - 01
Tel: +94 1 447841
Fax: +94 1 440000

M. DISSANAYAKE Radley Claude Ranjit (CA)

Chief Engineer (Licensing & Customer Services)
Sri Lanka Telecom
E.H. Cooray Building, 411 Galle Road
COLOMBO - 3
Tel: +94 1 575013
Fax: +94 1 575002

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Suède
Sweden
Suecia**

M. ANDERSSON Curt (C)

Deputy Director General, Director International Affairs
National Telecom Agency
P.O. Box 5398
102 49 STOCKHOLM
Tel: +46 8 6785500
Fax: +46 8 6785505

M. ERNBERG Harald (CA)

Counsellor
Ministry for Foreign Affairs
Swedish Embassy
BUENOS AIRES - Argentina

Mme LINDQVIST Eva (D)

Manager, Long Term Business Development
Telefon AB L M Ericsson
126 25 STOCKHOLM
Tel: +46 8 7190000
Fax: +46 8 184085

M. MARTIN-LÖF Johan (D)

Director International Affairs
TELIA AB
Corporate Strategy
12386 FARSTA
Tel: +46 8 7131268
Fax: +46 8 7133636

M. NILSSON Bernt (D)

Marketing Director, Caribbean, Central & South America
TELIA AB
c/o Swedtel AB - P.O. Box 6296
102 35 STOCKHOLM
Tel: +46 8 6902221
Fax: +46 8 318 319

M. STALBERG Lars A. (D)

Vice-President, Corporate Markets
Telefon AB L M Ericsson
126 25 STOCKHOLM
Tel: +46 8 7190000
Fax: +46 8 184085

Mme SVENSSON Marianne (D)

Coordinator, International Affairs
TELIA AB
Corporate Strategy
123 86 FARSTA
Tel: +46 8 713 4136
Fax: +46 8 713 3636

M. WINGARDH Lennart (D)

Director, Business Development
Telefon AB L M Ericsson
126 25 STOCKHOLM
Tel: +46 8 7190000
Fax: +46 8 184085

**Suisse (Confédération)
Switzerland (Confederation of)
Suiza (Confederación)**

M. RIEHL Frédéric (C)

Vice-directeur, Service droit et affaires internationales
Office fédéral de la communication
Rue de l'avenir, 44
2503 BIENNE
Tel: +41 32 285444
Fax: +41 32 285555

M. OBERSON Raphaël (CA)

Vice-Directeur, Chef Division services gestion et affaires
internationales
Entreprise des PTT Suisses
Département Telecom - Viktoriastr 21
3030 BERNE
Tel: +41 31 3382354
Fax: +41 31 3383447

M. DESSOULAVY Jean (D)

Agregado Cultural
Embajada de Suiza en Buenos Aires
Santa Fe 846 - 10° piso
1059 BUENOS AIRES - Argentina
Tel: +54 1 3116491
Fax: +54 1 3132998

**Suriname (République du)
Suriname (Republic of)
Suriname (República de)**

S.E. M. DEFARES Johan Adolf (C)

Minister of Transport, Communication & Tourism
Ministry of Transport, Communication & Tourism
26 Prins Hendrikstraat
PARAMARIBO
Tel: +597 420423
Fax: +597 411951

Mme STRUIKEN-WIJDENBOSCH Iris Marie (CA)

Deputy Director, Legal & Personnel Affairs
Telecommunication Corporation Suriname
1, Heiligenweg
PARAMARIBO
Tel: +597 478031
Fax: +597 472243

M. BELFOR Gerrit Roy (D)

Senior Staff Member Public Relations
Telecommunication Corporation Suriname
1, Heiligenweg
PARAMARIBO
Tel: +597 474242
Fax: +597 477800

M. NEUS Edmund Charles (D)

Head Integral Planning Department
Telecommunication Corporation Suriname
1, Heiligenweg
PARAMARIBO
Tel: +597 474242
Fax: +597 477800

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Swaziland (Royaume du) Swaziland (Kingdom of) Swazilandia (Reino de)

M. MABUZA Richard (D)
Director of Telecommunication
Posts & Telecommunications Corporation
P.O. Box 125
MBABANE
Tel: +268 42341
Fax: +268 43130

Tanzanie (République-Unie de) Tanzania (United Republic of) Tanzanía (República Unida de)

S.E. M. KIULA Nalaila L.M. (C)
Minister for Works, Communications and Transport
Ministry of Works, Communications and Transport
P.O. Box 9423
DAR-ES-SALAAM
Tel: +255 51 68548
Fax: +255 51 46160

M. MAPUNDA Adolar (CA)
Director General
Tanzania Posts and Telecommunications Corporation (TPTC)
P.O. Box 9070 - Samora Avenue
DAR-ES-SALAAM
Tel: +255 51 30908/31155
Fax: +255 51 46661

Tchad (République du) Chad (Republic of) Chad (República del)

M. PAKEU Djonfabe (C)
Directeur Général adjoint de l'ONPT
Direction Générale de l'Office National des Postes et
Télécommunications
B.P. 154
N'DJAMENA
Tel: +235 513940
Fax: +235 512835

Thaïlande Thailand Tailandia

M. SAOVAROS Aswin (C)
President
The Communications Authority of Thailand
99 Chaeng Watthana Rd., Don Muang
BANGKOK 10002
Tel: +66 2 5735403
Fax: +66 2 5746054

M. KUSUVARN Kravud (CA)
Executive Vice President
The Communications Authority of Thailand
99 Chaeng Watthana Road
Don Muang
BANGKOK 10002
Tel: +66 2 5735404
Fax: +66 2 5746054

Mme CHUENTONGKAM Wajana (D)
Chief of International Telecommunication Section
Post and Telegraph Department
87 Soi Sailom 8, Phaholyothin Road, Phayathai
BANGKOK 10400
Tel: +66 2 2710151-60
Fax: +66 2 2713512

M. COMMUANG Charin (D)
The Government Publics Relations Department
Fortune Tower, Rutchadaphiseke Rd. Huaykhwang
BANGKOK 10310
Tel: +66 2 2458911
Fax: +66 2 2458623

M. SUBPRAWONG Chakree (D)
Senior Executive Manager, Sector of Corporate Planning
Process
Telephone Organization of Thailand
Corporate Planning Office - 388 Phahonyothin Road
11th Floor - IBM Building
BANGKOK 10400
Tel: +66 2 253 1817
Fax: +66 2 2531811

M. UDOMKIAT Kittin (D)
Vice-President
The Communications Authority of Thailand
99 Chaeng Watthana Rd., Don Muang
BANGKOK 10002
Tel: 66 2 5735406
Fax: 66 2 5746054

Togolaise (République) Togolese Republic Togolesa (República)

M. AYIKOE Kossivi Paul (CA)
Directeur général
Direction générale de l'Office des Postes et Télécommunication
Avenue Nicolas Grunitzky
LOME
Tel: +228 214401
Fax: +228 210373

Tunisie Tunisia Túnez

M. BOUMAIZA Mohamed (C)
Directeur Général de la Planification et de la Formation des
Cadres
Ministère de Communications
3bis, Rue d'Angleterre
TUNIS
Tel: +216 1 345.350

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

**Ukraine
Ukraine
Ucrania**

S.E. M. PROZHIVALSKY Oleg P. (C)

Minister of Posts & Telecommunications and TDAB Member
Ministry of Posts & Telecommunications
22, Kreschatik
252001 KIEV
Tel: +7 044 2288661
Fax: +7 044 2286141

M. KLIKICH Anatoly V. (CA)

Director of International Relations Department
Ministry of Posts and Telecommunications
22, Kreschatik
252001 KIEV
Tel: +7 044 2288661
Fax: +7 044 2286141

M. KRAVCHENKO Viktor V. (D)

Expert of the Cabinet of Ministers
Ministry of Posts and Telecommunications
22, Kreschatik
252001 KIEV
Tel: +7 044 2934300
Fax: +7 044 2286141

M. NIKONENKO Alexander (D)

Minister-Counsellor
Embassy of Ukraine
Lafinur, 3057
BUENOS AIRES - Argentina
Tel: +54 1 8023864
Fax: +54 1 8027316

S.E. M. PASCHUK Victor (D)

Ambassador
Embassy of Ukraine
Lafinur, 3057
BUENOS AIRES - Argentina

Mme SEMENOVA Elena (D)

Interpreter for the Minister
Ministry of Posts and Telecommunications
22, Kreschatik
252001 KIEV
Tel: +7 044 2288661
Fax: +7 044 2286141

M. STETSENKO Anatoly M. (D)

Deputy General Manager
Ukraine Telecom (UTEL)
B. Khmelnytsky St. 38
252030 KIEV
Tel: +7 044 2293475
Fax: +7 044 2298373

**Uruguay (République orientale de l')
Uruguay (Eastern Republic of)
Uruguay (República Oriental del)**

Mme MEDERO Rosario (C)

Presidenta
ANTEL
Colonia 1930, 2o. piso
C.P. 11200
MONTEVIDEO
Tel: +598 2 40.84.15
Fax: +598 2 403844

M. CAMELO Juan José (CA)

Director Nacional de Comunicaciones
ANTEL
Bv. Artigas 1520
MONTEVIDEO
Tel: +598 2 773662-69
Fax: +598 2 773591

M. SILVEIRA ZAVALA Juan de la Cruz (CA)

Presidente
Comisión Interamericana de Telecomunicaciones
Fernandez Crespo 1534, Piso 9
MONTEVIDEO
Tel: +598 2 40.84.15
Fax: +598 2 403844

M. CORTAZZO Victor (D)

Director
Administración Nacional de Telecomunicaciones (ANTEL)
Colonia 1930, 2 piso
CP 11200
MONTEVIDEO
Tel: +598 2 408415
Fax: +598 2 403844

M. HACKEMBRUCH Esteban (D)

Administración Nacional de Telecomunicaciones (ANTEL)
Colonia 1930, Piso 2
CP 11200
MONTEVIDEO
Tel: +598 2 408415
Fax: +598 2 403844

M. NOVOA Osvaldo (D)

Gerente de División Internacional
Administración Nacional de Telecomunicaciones (ANTEL)
Colonia 1930, 2 piso, C.P. 11200
MONTEVIDEO
Tel: +598 2 408415
Fax: +598 2 483844

M. NUÑEZ Alain (D)

Director División Técnica
ANTEL
Bv. Artigas 1520
MONTEVIDEO
Tel: +598 2 773662-69
Fax: +598 2 773670

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Uruguay (République orientale de l')
Uruguay (Eastern Republic of)
Uruguay (República Oriental del)

M. PELUFFO Luis M. (D)

Asesor en Asuntos Internacionales
Administración Nacional de Telecomunicaciones (ANTEL)
Colonia 1930, Piso 2
CP 11200
MONTEVIDEO
Tel: +598 2 408415
Fax: +598 2 403844

Mme PIEDRAS Graciela (D)

Jefe de Unidad Soporte Técnico/División Internacional
Administración Nacional de Telecomunicaciones (ANTEL)
Fernandez Crespo 1534
MONTEVIDEO
Tel: +598 2 409415
Fax: +598 2 483844

M. QUINTEIRO Adolfo (D)

Gerente General
Administración Nacional de Telecomunicaciones (ANTEL)
Colonia 1930, Piso 2
CP 11200
MONTEVIDEO
Tel: +598 2 408415
Fax: +598 2 403844

M. TERRA GALLINAL Francisco (D)

Director
Administración Nacional de Telecomunicaciones
Colonia 1930, 2 piso
CP 11200
MONTEVIDEO
Tel: +598 2 408415
Fax: +598 2 403844

Venezuela (République du)
Venezuela (Republic of)
Venezuela (República de)

M. MIJARES PEÑA Juan (C)

Director General
Comisión Nacional de Telecomunicaciones (CONATEL)
Calle Veracruz con Calle Cali, Edificio M.T.C., Piso 3 - Las Mercedes - Apartado Postal 17174
CARACAS
Tel: +582 926333
Fax: +582 926379

M. BRANCATO Francisco (CA)

Jefe de Oficina de Relaciones Internacionales
Comisión Nacional de Telecomunicaciones (CONATEL)
Calle Veracruz con Calle Cali, Edificio M.T.C., Piso 1 - Las Mercedes - Apartado Postal 17174
CARACAS
Tel: +582 926611
Fax: +582 926555

M. CACERES Manuel (D)

Compañía Anónima Nacional Teléfonos de Venezuela (CANTV)
Apartado Postal 1226
CARACAS 1010
Fax: +58 2 5003512

Mme CISNEROS DE SALAS Haydee (D)

Directora
Cámara de Servicios de Telecomunicaciones - TELCEL
Parque Cristal - Torre Oeste Piso 14 - Av. Fco. Miranda
CARACAS 1060
Tel: +582 2018203
Fax: +582 2018230

M. GARCIA DE CECA José Luis (D)

Compañía Anónima Ericsson de Venezuela
Edif. Empresarial Parque del Este, Piso 8
Avda. Francisco de Miranda
CARACAS 1071
Tel: +58 2 2390711
Fax: +58 2 2390648

S.E. M. LEANDRO Reinaldo (D)

Embajador de Venezuela en Buenos Aires
Embaja de Venezuela
BUENOS AIRES

M. LUKIN Ariel Mario (D)

Gerente de Operaciones
IMPSAT de Venezuela
Av. Francisco de Miranda
Torre La Primera 14 a/b
CARACAS
Tel: +582 2636484
Fax: +582 2635168

M. MAISONNAVE Pedro (D)

Director Regional de Motorola de los Andes y del Caribe
CONATEL
Edificio Forón, Piso 6
CARACAS
Tel: +58 2 952 8355
Fax: +58 2 9528362

M. MEJIAS Tulio (D)

Vice-Presidente Ejecutivo de Planificación y Tconología
Compañía Anónima Nacional de Teléfonos (CANTV)
Apartado Postal 1226
CARACAS 1010
Tel: +582 5003016
Fax: +582 5003512

Mme ORNES-URBANY Alejandra (D)

Iridium Andes Caribe
Av. Ppal Los Cortijos
CARACAS

DELEGATIONS - DÉLÉGATIONS - DELEGACIONES

Venezuela (République du)
Venezuela (Republic of)
Venezuela (República de)

Mme RODRIGUEZ Elba (D)
Consejero
Embajada de Venezuela en Argentina
Virrey Loreto 2039
BUENOS AIRES
Tel: + 54 1 7884944
Fax: + 54 1 7844311

M. NG'OMA Philemon (CA)
Managing Director
Posts and Telecommunications Corporation Limited
Box 71660
NDOLA
Tel: + 260 612399
Fax: + 260 615855

Zimbabwe (République du)
Zimbabwe (Republic of)
Zimbabwe (República de)

S.E. M. KARIMANZIRA David (C)
Minister of Information, Posts and Telecommunications
Ministry of Information, Posts and Telecommunications
Linquenda House - Baker Avenue
HARARE
Tel: + 263 4 703891-5
Fax: + 263 4 707213

Viet Nam (République socialiste du)
Viet Nam (Socialist Republic of)
Viet Nam (República Socialista de)

M. TRUC Mai Liem (C)
Deputy Secretary-General
Department General of Posts & Telecommunications
18, Nguyen Du Street
HANOI
Tel: + 84 4 226580
Fax: + 84 4 226590

M. CHAZA Tororiro Isaac (D)
Director Corporate Planning
Posts and Telecommunications Corporation
P.O. Box 8061, Causeway
HARARE
Tel: + 263 4 728811
Fax: + 263 4 731989

M. LE THAI Hong (CA)
General Manager
Department General of Posts and Telecommunications
18 Nguyen Du Street
HANOI
Tel: + 84 4 226610
Fax: + 84 4 226590

M. DANDATO Mazwi F. (D)
Senior Deputy Postmaster General (Telecommunications)
Posts & Telecommunication Corporation
P.O. Box 8061 - Causeway
HARARE
Tel: + 263 4 728811
Fax: + 263 4 731989

Zaïre (République du)
Zaire (Republic of)
Zaire (República del)

M. MBOKOLIABWE Bayombo (C)
Président, Délégué général
Office National des postes et des télécommunications du Zaïre
(ONPTZ)
Boîte Postale 7070
KINSHASA-1
Tel: + 243 12 22876

M. MAKIWA A.T. (D)
Under-Secretary
Ministry of Information, Posts and Telecommunications
Linquenda House, Baker Avenue
HARARE
Tel: + 263 4 703891-5
Fax: + 263 4 707213

M. OSIKIA Ikobo (CA)
Administrateur-Directeur technique chef de département des
télécom.
Office National des postes et des télécommunications du Zaïre
(ONPTZ)
Boîte Postale 7070
KINSHASA-1
Tel: + 243 12 22876

* * * * *
PAYS MEMBRE DE L'ONU, NON MEMBRE DE L'UIT
UNO MEMBER COUNTRY, NOT AN ITU MEMBER
PAIS MIEMBRO DE LA ONU, NO MIEMBRO DE LA UIT

Zambie (République de)
Zambia (Republic of)
Zambia (República de)

S.E. M. HARRINGTON William J. (C)
Minister
Ministry of Communications and Transport
P.O. Box 50065
LUSAKA
Tel: + 260 1 251444

Tuvalu
Tuvalu
Tuvalu

M. TIHALA Pokia (C)
Assistant Secretary for Labour, Works and Communications
Ministry of Labour, Works and Communications
FUNAFUTI
Tel: + 688 20824
Fax: + 688 20722

**UNO, ITS SPECIALIZED AGENCIES AND LIBERATION ORGANIZATIONS - ONU, SES INSTITUTIONS
SPECIALISÉES ET ORGANISATIONS DE LIBÉRATION - ONU, SUS ORGANISMOS ESPECIALIZADOS Y
ORGANIZACIONES DE LIBERACIÓN**

IAEA

M. RADICELLA Sandro

Professor, Head: Atmospheric Physics & Radiopropagation
International Centre for Theoretical Physics
Strada Costiera 11
34014 Trieste
Italie
Tel: +39 40 2240331
Fax: +39 40 224604

ICAO

M. ROCHAT Philippe

Secretary-General
1000 Sherbrooke Street West
MONTREAL
Canada
Tel: +1 514 2858041
Fax: +1 514 2884772

M. STEHLI MARTINEZ Carlos

Technical Officer, Communications, South American Office
Apartado Postal 4127
LIMA 1003
Pérou
Tel: +51 14 515414/515497
Fax: +51 14 640393

IFC

M. BATALLA Pedro

Representative in Argentina
Maipú 1300 - Piso 12
BUENOS AIRES - ARGENTINA
Etats-Unis d'Amérique
Tel: +54 1 3151666
Fax: +54 1 3129435

M. JABRE Assaad J.

Manager, Telecommunications Division
1801 K Street, NW
WASHINGTON, D.C. 20433
Etats-Unis d'Amérique
Tel: +1 202 4730735
Fax: +1 202 6761880

JIU

M. QUIJANO Raúl

Palais des Nations - Bureau 503 B
1211 GENEVA
Suisse (Confédération)
Tel: +41 22 9178441
Fax: +41 22 9178033

OMM

Mr. RAINER Jean-Michel

Chief, Telecommunications & Monitoring Division
41, avenue Giuseppe Motta
Case Postale No. 2300
1211 GENEVA 2
Suisse (Confédération)
Tel: +41 22 7308219
Fax: +41 22 7330242

OMS

M. MANDIL Salah H.

Director-Adviser on Informatics
20, avenue Appia
1211 GENEVA 27
Suisse (Confédération)
Tel: +41 22 7912426
Fax: +41 22 7910746

ONU

M. ZIMMERMANN Hans

Senior Humanitarian Affairs Officer
Department of Humanitarian Affairs
Palais des Nations
1211 GENEVA 10
Suisse (Confédération)
Tel: +41 22 9173516
Fax: +41 22 9170023

Palestine

S.E.M. AKEL Suhail Hani Daher

Embajador de Palestina en Argentina
Yerbal 1020
BUENOS AIRES
Argentine (République)
Tel: +54 1 4325121
Fax: +54 1 4325121

M. ELLAHAM Zouhair

President General Manager
General Corporation of Telecommunications
Tunis Hammam Lef - P.B. 903
TUNIS
Tunisie
Tel: +216 1 430786
Fax: +216 1 430786

UNDP/PNUD

M. ANDERSEN Jesper

Programme Officer
Casilla de Correos 2557
1000 BUENOS AIRES
Argentine (République)
Tel: +54 1 3943669
Fax: +54 1 111516

M. LATORRE Hernán

Deputy Resident Representative
Casilla de Correo 2257
1000 BUENOS AIRES
Argentine (République)
Tel: 54 1 3943669
Fax: 54 1 111516

UNESCO

M. ALFONZO Alejandro

Consejero Regional en Comunicación para América Latina
265 Foch y Av. 6 de Diciembre
QUITO
Equateur
Tel: +593 2 562327
Fax: +593 2 504435

**UNO, ITS SPECIALIZED AGENCIES AND LIBERATION ORGANIZATIONS - ONU, SES INSTITUTIONS
SPECIALISÉES ET ORGANISATIONS DE LIBÉRATION - ONU, SUS ORGANISMOS ESPECIALIZADOS Y
ORGANIZACIONES DE LIBERACIÓN**

UNESCO

M. YUSHKIAVITSHUS Henrikas

Assistant Director-General
7, Place de Fontenoy
75352 PARIS 07-SP
France
Tel: +33 1 45681000
Fax: +33 1 45671690

M. DUPONT-HENIUS Georges

7, place de Fontenoy
75700 PARIS
France
Tel: +33 1 45684195
Fax: +33 1 45674358

UNIDO

M. SERCOVICH Francisco

UNIDO Country Director Argentina & Uruguay
Av. Leandro N. Alem 1067, F.7
1001 BUENOS AIRES
Argentine (République)
Tel: +54 1 3133013
Fax: +54 1 3132130

WORLD BANK

M. SERGO Mihkel

Senior Financial Analyst
1818 H Street N.W.
WASHINGTON D.C. 20433
Etats-Unis d'Amérique
Tel: +1 202 4582870
Fax: +1 2024778598

M. WELLENIUS Björn

Telecom. Adviser , Telecom. & Informatics Division
1818 H Street, N.W.
WASHINGTON, D.C. 20433
Etats-Unis d'Amérique
Tel: +1 202 4582663
Fax: +1 202 4770685

**INTERNATIONAL & REGIONAL ORGANIZATIONS - ORGANISATIONS INTERNATIONALES & RÉGIONALES -
ORGANIZACIONES INTERNACIONALES Y REGIONALES**

ABU

M. STEPANIAN Valod

Chairman, Working Party A and Chief Engineer, Tech. Planning
& Development
P.O. Box 15875-4344
TEHRAN
Iran (République islamique d')
Tel: +98 21 966356
Fax: +98 21 291081

M. KHUSHU Om P.

Director, Technical Department
P.O. Box 1164, Pejabat Pos Jalan Pantai Baru
59700 KUALA LUMPUR
Malaisie
Tel: +60 3 2823108
Fax: +60 3 2825292

AHCIET

M. GOMEZ ALAMILLO Francisco

Secretary-General
Guzmán el Bueno, 133 - Edificio Britannia
28003 MADRID
Espagne
Tel: +34 1 534 7473
Fax: +34 1 534 7382

M. CELA José

Presidente
GPO Box 70325
SAN JUAN
Puerto Rico
Tel: +809 2735624
Fax: +809 2735858

AIR

M. TARSITANO Luis

Piedras 1743
BUENOS AIRES
Argentine (République)
Tel: +54 1 3070327
Fax: +54 1 3070315

M. BAYO Eduardo

25 de Mayo 520
MONTEVIDEO
Uruguay (République orientale de l')
Tel: +598 2 961703

M. FARLEY Eduardo Oscar

25 de Mayo 520
MONTEVIDEO
Uruguay (République orientale de l')
Tel: +598 2 961703

M. ISELY Guillermo

25 de Mayo 520
MONTEVIDEO
Uruguay (République orientale de l')
Tel: +598 2 961703

M. MOCORREA Sebastián

25 de Mayo 520
MONTEVIDEO
Uruguay (République orientale de l')
Tel: +598 2 961703

M. PARODI Osvaldo Enrique

25 de Mayo 520
MONTEVIDEO
Uruguay (République orientale de l')
Tel: +598 2 961703

APT

M. SONOKI Hiroyasu

Executive Director
12/49, Soi 5, Chaengwattana Road
BANGKOK 10210
Thaïlande
Tel: +66 2 5736890
Fax: +66 2 5737479

M. NARAYAN Amarendra

Director Project Development
12/49, Soi 5, Chaengwattana Road
BANGKOK 10210
Thaïlande
Tel: +66 2 5730044
Fax: +66 2 5737479

ASETA

M. PICHILINGUE PRIETO Eduardo

Director, Departamento de Relaciones Internacionales
Av. La Coruña 2669 y Av. González Suárez
Casilla 17-1106042
QUITO
Equateur
Tel: +593 2 563812
Fax: +593 2 562499

CANTO

M. DALY Peter

Technical Manager
116 Frederick Street
PORT OF SPAIN
Trinité-et-Tobago
Tel: +809 6243081
Fax: +809 6242208

M. NOGUERA Felipe

Secretary-General and TDAB Member
116, Frederick Street
PORT OF SPAIN
Trinité-et-Tobago
Tel: +809 6258565
Fax: +809 6242268

**INTERNATIONAL & REGIONAL ORGANIZATIONS - ORGANISATIONS INTERNATIONALES & RÉGIONALES -
ORGANIZACIONES INTERNACIONALES Y REGIONALES**

CEC

M. OLDEKOP Dieter
AYACUCHO 1537
Argentine (République)
Tel: +54 1 8053759
Fax: +54 1 8011594

M. RIETBROEK John
Principal Counsellor
Rue de la Loi, 200 - BU9 6/166
1049 BRUXELLES
Belgique
Tel: +32 2 2957127
Fax: +32 2 2968875

M. SOUPIZET Jean-François
Rue de la Loi, 200 - DGXIII BU 9 3/184
1049 BRUXELLES
Belgique
Tel: +322 2968964
Fax: +322 2968970

M. WELENS Hans
Chairman IARU-R1 Stars WG
Mechelsesteenweg 45
2500 LIER
Belgique
Tel: +32 3 4891333
Fax: +32 3 4881357

M. PRICE Larry
Secretary of IARU
225 NEWINGTON, CT 06111
Etats-Unis d'Amérique
Tel: +1 203 6661541
Fax: +1 203 6651531

M. RAICHA D.R. (Max)
Engineer/Stars WG-IARU
P.O. Box 898 - Gor Mahia Road
KISUMU
Kenya (République du)
Tel: +254 35 40906
Fax: +254 35 21400

COMTELCA

M. ROMERO Javier A.
Director Grupo Ejecutivo
Edificio de organismos Internacionales de Telecom - Col. Los
Almendros - Apartado 1793
TEGUCIGALPA, M.D.C.
Honduras (République du)
Tel: +504 366666
Fax: +504 367777

INMARSAT

M. LUNDBERG Olof
Director General
99 City Road
LONDON EC1Y IAX
Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
Tel: +44 71 7281201
Fax: +44 71 7281665

CTU

M. RAMNARINE Deoraj
Secretary-General
17, Queen's Park West
PORT OF SPAIN
Trinité-et-Tobago
Tel: +1 809 628 3185
Fax: +1 809 628 6037

M. McDOUGAL Patrick
Manager, Strategic Planning
99 City Road
LONDON EC1Y IAX
Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
Tel: +44 71 7281564
Fax: +44 71 7281702

IAF

M. COCCA Aldo Armando
Vice-Présidente de Relaciones Exteriores
3-4 rue Mario-Nikis
PARIS
France

M. ORNELAS Jorge
Manager, Regional Programmes
99 City Road
LONDON EC1Y IAX
Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
Tel: +44 71 7281438
Fax: +44 71 7281163

IARU

M. SZAMA Reinaldo
Director Area G Región 2
Gorostia 2320, P. 15 "A"
1426 BUENOS AIRES
Argentine (République)
Tel: +54 1 7762503
Fax: +54 1 6133004

M. PADILLA Enrique
Press
99 City Road
LONDON EC1Y 1AX
Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
Tel: +44 71 7281179

M. VARGAS - ARAYA Armando
Regional Director for Latin America and the Caribbean
99 City Road
LONDON EC1Y 1AX
Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
Tel: +44 71 7281296
Fax: +44 71 7281163

**INTERNATIONAL & REGIONAL ORGANIZATIONS - ORGANISATIONS INTERNATIONALES & RÉGIONALES -
ORGANIZACIONES INTERNACIONALES Y REGIONALES**

INMARSAT

M. VILARES-LEIS Jesús

Manager, Personal Communications
99 City Road
LONDON EC1Y 1AX
Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
Tel: +44 71 7281279
Fax: +44 71 7281735

M. WRIGHT David

Manager, Regional Programmes
99 City Road
LONDON EC1Y 1AX
Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
Tel: +44 71 7281203
Fax: +44 71 7281163

INTELSAT

M. GOLDSTEIN Irving

Director General and Chief Executive Officer - TDAB Member
3400 International Drive, N.W.
WASHINGTON D.C. 20008-3098
Etats-Unis d'Amérique
Tel: +1 202 9447800
Fax: +1 202 9447859

M. CHASIA Henry

Manager of the Orbital Resources Department
3400 International Drive, N.W.
WASHINGTON, D.C. 20008-3098
Etats-Unis d'Amérique
Tel: +1 202 9447511
Fax: +1 202 9447076

M. LATAPIE Francis

Director of International Relations
3400 International Drive, N.W.
WASHINGTON D.C. 20008-3098
Etats-Unis d'Amérique
Tel: +1 202 9447815
Fax: +1 202 9447076

M. PERRONE Luiz

Director of Sales
3400 International Drive, N.W.
WASHINGTON D.C. 20008-3098
Etats-Unis d'Amérique
Tel: +1 202 9447510
Fax: +1 202 9447076

INTUG

M. ALLEN Peter

Vice-Chairman Regulatory Affairs and TDAB Member
c/o TRS Telecommunications Services
Amex House, Edward Street
BRIGHTON BN2 2LP
Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
Tel: +44 273 526580
Fax: +44 273 524812

ISO

M. TYCHOJKIJ Julián

Director General, IRAM
Chile 1192
1098 BUENOS AIRES
Argentine (République)

M. PETRONI Olvaldo

Chief of Division, Electric & Electronic Standards
Case postale 56
1211 GENEVA 20
Suisse (Confédération)
Tel: +41 22 7490111
Fax: +41 22 7333430

M. PINEDA Emilio

Director of Standardization, IRAM
Case postale 56
1211 GENEVA 20
Suisse (Confédération)
Tel: +41 22 7490111
Fax: +41 22 7333430

OAS

M. BLOIS MONTES DE SOUZA Roberto

Executive-Secretary of CITEL
1889 F. Street
N.W. WASHINGTON D.C.: 20006
Etats-Unis d'Amérique
Tel: +1 202 4583004
Fax: +1 202 4583967

M. SANDER Benno

President Representative in Argentina
Junin 1940
1113 BUENOS AIRES
Etats-Unis d'Amérique
Tel: +54 1 8037606
Fax: +54 1 8016092

PTC

M. BARBER Richard J.

Executive Director
2454 S.O. Beretania Street, Suite 302
HONOLULU, HAWAII 96826
Etats-Unis d'Amérique
Tel: +1 808 9413789
Fax: +1 808 9444874

SATCC

M. MANGOELA Percy

Director
CP 2677
MAPUTO
Mozambique (République du)
Tel: +258 1 420214
Fax: +258 1 420213

**INTERNATIONAL & REGIONAL ORGANIZATIONS - ORGANISATIONS INTERNATIONALES & RÉGIONALES -
ORGANIZACIONES INTERNACIONALES Y REGIONALES**

SATCC

M. TAYOB Marcelino
Telecom Specialist
CP 2677
MAPUTO
Mozambique (République du)
Tel: +258 1 420214
Fax: +258 1 420213

SITA

M. SALTSMAN Joel
Assistant to VP International Relations
26, Chemin de Joinville - 1216 Cointrin
GENEVA
Suisse (Confédération)
Tel: +41 22 7100150
Fax: +41 22 7100151

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Allemagne (République fédérale d')
Germany (Federal Republic of)
Alemania (República Federal de)**

M. KOLB Gunter

Technical Sales Manager
Philips Kommunikations Industrie AG
Thurn-und-Taxis-Str. 14 - Postfach 4943
NURNBERG 10
Tel: +49 911 5266559
Fax: +49 911 5264193

M. VAN SCHOONEVELD Dick

Area Sales Director
Philips Kommunikations Industrie AG
Thurn-und-Taxis-Str. 14 - Postfach 4943
NURNBERG 10
Tel: +49 911 5266559
Fax: +49 911 5264193

**Argentine (République)
Argentine Republic
Argentina (República)**

M. GAZZO Roberto E.

Coop. Telefónica López Camelo

M. TARANTINI Alberto G.

MOVICOM
Tucumán 744, 8o Piso
1049 BUENOS AIRES

M. AUCAPIÑA Eduardo F.

Propietario Servicios de Radiodifusión
ASMEC
Los Peteribis 300
SALTA
Tel: +54 87 313389

M. BALLARINO Alfredo

Presidente de Cicomra
Cámara de Informática y Comunicaciones
Av. Córdoba 744 - 2o piso dto. D
1054 BUENOS AIRES
Tel: +54 1 3937352
Fax: +54 1 3259604

M. BANEGA Bernardo Humberto

Consejero
COPITEC
Perú 562 (106b)
BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

M. BARANDA LETURIO José Luis

Director de Planif. Estratégica, Control de Gestión y
Participación
Telefónica de Argentina
Av. de Mayo 654 - piso 14
1084 BUENOS AIRES
Tel: +54 1 3340281
Fax: +54 1 3349286

M. BIANCHI Osvaldo

Subdir. Tecnología de Planta Interna y Laboratorio
Telefónica de Argentina
1036 BUENOS AIRES
Tel: +54 1 492398
Fax: +54 1 499890

M. BLANES Franklin

Promotor Servicios
Telefónica de Argentina
SANTIAGO DEL ESTERO 1019
Tel: +54 304 8267
Fax: +54 304 8267

M. BOTAZZINI César A.

Consejero Titular
COPITEC
Perú 562
BUENOS AIRES
Tel: +54 1 3438407

M. BRAVO José

Director Marketing
TELINTAR
25 de Mayo 457 - 4 Piso
1002 BUENOS AIRES
Tel: +54 1 3180500

M. CASTELLARIN Eduardo Néstor

Gerente Consejero
COPITEC
Perú 562
1068 BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

M. CEJAS Ulises J.P.

Consejero
COPITEC
Perú 562
1068 BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

M. DI BENEDETTO Luis

Consejero
COPITEC
Perú 562
BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Argentine (République)
Argentine Republic
Argentina (República)**

M. DIAZ Joel Oscar
Asesor Técnico
COPITEC
Perú 562
BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

M. DMITRUK Andrés
Consejero
COPITEC
Perú 562
BUENOS AIRES
Tel: +54 1 3438407

Mme ELENA ESCALERA María Cristina
Asesora
COPITEC
Perú 562
BUENOS AIRES

M. ERMANN Miguel
Regional Manager
Motorola
Paraguay 515, Piso 3
1057 BUENOS AIRES
Tel: +54 1 3122478
Fax: +54 1 3122859

M. FERNANDEZ Eugenio
Jefe, Sección Coordinación Organismos Internacionales
Telecom Argentina
Av. del Libertador 498 - Piso 20
BUENOS AIRES
Tel: +54 1 9684072
Fax: +54 1 9684272

M. FILIPPINI Maurizio
Director de Explotación
Telecom Argentina
Av. del Libertador 498 - Piso 21
BUENOS AIRES
Tel: +54 1 9684160
Fax: +54 1 9632840

M. GABELLONI Eduardo
Gerente
Telefónica de Argentina
Bartolomé Mitre 751, 5 piso
1036 BUENOS AIRES
Tel: +54 1 4761881/0022
Fax: +54 1 3262821

M. GALANO Miguel A.
Consejero
COPITEC
Perú 562
BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

M. GIMENEZ Eduardo
Movicom
Tucumán 744, 8o Piso
1049 BUENOS AIRES
Tel: +541 3255006
Fax: +541 325 5334

Mme GNECCHI Angelica Rosa
Area UIT
Telintar S.A.
25 de Mayo 457, 7o. piso
1002 BUENOS AIRES
Tel: +54 1 3180500
Fax: +54 1 3134924

M. GONZALEZ AJATES Pedro
Director de Planificación, Programación y Tecnología
Telefónica de Argentina
Maipú
1006 BUENOS AIRES
Tel: +54 1 3344379
Fax: +54 1 3344785

M. GOULU Juan
Sub-Gerente Evaluación de Proyectos
Telefónica de Argentina
Avenida Mayo 654, 11 piso
BUENOS AIRES

M. GOUSSAL Dario M.
Coordinador PTR-UNNE
Universidad Nacional del Nordeste
Av. Las Meras, 727
CHACO
Tel: +54 722 20076/25064
Fax: +54 722 36298

M. JEAN-MARIE Michel
Director Técnico
Telecom Argentina
Av. del Libertador 498-Piso 26
BUENOS AIRES
Tel: +54 1 9684096
Fax: +54 1 9632240

M. JUAREZ Miguel A.
Consejero
COPITEC
Perú 562
1068 BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Argentine (République)
Argentine Republic
Argentina (República)**

M. KENNY Luis F.
Movicom
Tucumán 744, 8o Piso
1049 BUENOS AIRES
Tel: +541 3255006
Fax: +541 325 5334

M. KERMAN Enrique
Movicom
Tucumán 744, 8o Piso
1049 BUENOS AIRES
Tel: +541 3255006
Fax: +541 325 5334

M. KUNICA Valentino
Consejero
COPITEC
Perú 562
BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

M. KUSTRA Rubén
Asesor en Redes Digitales
Telecom Argentina
Av. del Libertador 498 - Piso 27
BUENOS AIRES
Tel: +54 1 9684018
Fax: +54 1 9684197

M. LAMAS Marcelo
Secretario General
TELINTAR
25 de Mayo 457 - 7o Piso
1002 BUENOS AIRES
Tel: +54 1 3131561
Fax: +54 1 3134924

M. LAZARO GUTIERREZ Manuel
Director General de Explotación
Telefónica de Argentina
Av. de Mayo 701 - piso 23
Tel: +54 1 3346490/6591
Fax: +54 1 3341890

M. LEO Luis
TELECOM

Mme LIMA Renée
Presidente
C.A.D.A.S.
Paraguay 1855
BUENOS AIRES

M. LISTA Vicente Daniel
Consejero
COPITEC
Perú 562
BUENOS AIRES
Tel: +59 1 3938407
Fax: +59 1 3438923

M. MAIZTEGUI Ricardo José
Gerente de Marketing y Nuevos Servicios
TELINTAR
25 de Mayo 457 - 6 Piso
1002 BUENOS AIRES
Tel: +54 1 3180500
Fax: +54 1 3134924

M. MALVIDO Luis
Subdirector de Proyectos Especiales
Telefónica de Argentina
Av. de Mayo 654
BUENOS AIRES
Tel: +54 1 3349314
Fax: +54 1 3349286

M. MARIAS Hugo
Miembro Consejo Directivo
Cámara de Informática y Comunicaciones - Cicomea/Caoas
Acem 619 - 1o. piso Car. Federal
1054 BUENOS AIRES
Tel: +54 1 3153688
Fax: +54 1 3153686

M. MARTIN DE BUSTAMENTE Luis
Dirección General de Desarrollo Cooperativo
Telefónica de Argentina
Avenida de Mayo 701 - piso 23
1084 BUENOS AIRES

M. MARTIN MAYORGA Daniel
Director de Relaciones Institucionales
Telefónica de Argentina
Av. de Mayo 701 - piso 21
1084 BUENOS AIRES
Tel: +54 1 3344263
Fax: +54 1 3341111

M. MARTINEZ Christian J.
Del. Institucionales
ERICSSON S.A.C.I.
Madero 1020, Piso 15
BUENOS AIRES
Tel: +54 1 3155500
Fax: +54 1 3150629

M. MAURO Jorge Osvaldo
Comisión de Telecomunicaciones
COPITEC
Perú 564
1068 BUENOS AIRES
Tel: +54 1 3438407/8423

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Argentine (République)
Argentine Republic
Argentina (República)**

M. MAZZANTI Jorge

Cámara de Informática y Comunicaciones
Av. Córdoba 744 - 2o piso dto. D
1054 BUENOS AIRES
Tel: +54 1 3937352
Fax: +54 1 3259604

M. MAZZARO Nicolás

COPITEC
Perú 562
1068 BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

Mme MEALLA Graciela

Cámara de Informática y Comunicaciones
Av. Córdoba 744 - 2o piso dto. D
1054 BUENOS AIRES
Tel: +54 1 3937352
Fax: +54 1 3259604

Mme NIEVA Aurora E.

Especialista en Telecomunicaciones
ASMEC
Alvarado 1817
SALTA
Tel: +54 87 313949

M. NOSETTO Héctor Raul

Asesor
SIEMENS S.A.
J.A. Roca 530
BUENOS AIRES
Tel: +54 1 3430411

M. OLEA Agustín

Responsable del Area Relaciones Institucionales
TELINTAR
25 de Mayo 457 - Piso 7°
1002 BUENOS AIRES
Tel: +54 1 3180500
Fax: +54 1 3134924

M. PARODI Alfredo Raul

Asesor
TELECOM
Juan D. Perón 1515
1037 BUENOS AIRES
Tel: +54 1 403578
Fax: +54 1 4763949

M. PERAZO Luis

Cámara de Informática y Comunicaciones
Av. Córdoba 744 - 2o piso dto. D
1054 BUENOS AIRES
Tel: +54 1 3937352
Fax: +54 1 3259604

M. PEREZ Roberto E.

Director General
Movicom
Tucumán 744, 8o Piso
1049 BUENOS AIRES
Tel: +541 3255006
Fax: +541 325 5334

M. PICCHIO Alberto

Director General
ALCATEL TECHINT
Belgrano 327
BUENOS AIRES
Tel: +54 1 3310465
Fax: +54 1 3493939

M. RAMIREZ Carlos D.

Director
ALCATEL-Argentina
Av. Belgrano 327
BUENOS AIRES
Tel: +54 1 3491125
Fax: +54 1 3491129

M. REDONDO Guillermo

Consejero
COPITEC
Perú 562
BUENOS AIRES
Tel: +54 1 3438407 +54 1 34384

M. RIVERO Faustino

Presidente
Telefónica de Argentina
Av. de Mayo 701 - piso 23
Tel: +54 1 3315505/5506
Fax: +54 1 3319280

M. ROGANI Ruben

Movicom
Tucumán 744, 8o Piso
1049 BUENOS AIRES
Tel: +541 3255006
Fax: +541 325 5334

M. SABIO Raúl

Cámara de Informática y Comunicaciones
Av. Córdoba 744 - 2o piso dto. D
1054 BUENOS AIRES
Tel: +54 1 3937352
Fax: +54 1 3259604

M. SALMOYRAGHI Mauricio

TELECOM

M. SANGUINETTI Jorge L.

COPITEC
Perú 562
1068 BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3438423

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Argentine (République)
Argentine Republic
Argentina (República)**

M. SILBERMAN ARMANDO

Secretario
C.A.D.A.S.
Paraguay 1855
BUENOS AIRES

Mme SORRENTINO Gabriela Laura

Relación con Corresponsales
TELINTAR
25 de Mayo 457 - 4 Piso
1002 BUENOS AIRES
Tel: +54 1 3180500
Fax: +54 1 3134924

M. TOMASSONI Juan

Gerente General
TELINTAR
25 de Mayo 457 - Piso 7°
1002 BUENOS AIRES
Tel: +54 1 3150572
Fax: +54 1 3133842

M. TORDOMAR Carlos Valentín

Subdirector General
ALCATEL TECHINT
Belgrano 327
BUENOS AIRES
Tel: +54 1 3491101
Fax: +54 1 3433939

M. VARGAS Pablo

Ingeniero
Telefónica de Argentina
Bartolomé Mitre 751 5o piso
BUENOS AIRES
Tel: 4760022

M. WIOR Mauricio

Movicom
Tucumán 744, 8o Piso
1049 BUENOS AIRES
Tel: +541 3255006
Fax: +541 325 5334

M. YOFFE Jorge César

Consejero
COPITEC
Perú 562
1068 BUENOS AIRES
Tel: +54 1 3438407
Fax: +54 1 3428423

M. ZIRPOLI Vicente

Director de Legales y Asuntos Generales
Telecom Argentina
Maipu 1210 - Piso 10
BUENOS AIRES
Tel: +54 1 9683039
Fax: +54 1 8055858

**Australie
Australia
Australia**

M. HOARE David

Chairman, Telstra Corporation
Telstra Corporation
231 Elizabeth Street
SYDNEY, NSW, 2001
Tel: +61 2 2875571
Fax: +61 2 2875616

**Belgique
Belgium
Bélgica**

M. BEKAERT Robert

Ingénieur - Directeur
BELGACOM
42, Rue des Palais
BRUXELLES 1210
Tel: +32 2 2134598
Fax: +32 2 5132011

M. VAN GOMPEL Luc

Directeur général
BELGACOM
Av. Jacquain 166
Tel: +32 2 2183737
Fax: +32 2 2230546

**Canada
Canada
Canadá**

M. BARR David F.

Senior Consultant
SR Telecom
8150 Trans-Canada Highway- St. Laurent
QUEBEC H45 1M5
Tel: +1 613 7416640
Fax: +1 613 5673165

M. BLOEDON Robert

Director, External Research
Bell-Northern Research
3500 Carling Avenue
OTTAWA
Tel: +1 613 7632346
Fax: +1 613 7633912

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Canada
Canada
Canadá**

M. BLONDIN Norman
Vicepresident
TELEGLOBE
1000 de la Gauchetière
ST. WEST MONTREAL
Tel: +1 514 8687489
Fax: +1 514 8687531

M. BRETT Robert
Senior Manager, International Standards Coordination
Bell-Northern Research Ltd
P.O. Box 3533, Station C
OTTAWA, ONTARIO
Tel: +1 613 7637580
Fax: +1 613 7632497

M. DE ROME Pierre
Managing Director and Chief Executive Officer
TEMIC
550 Sherbrook St West - Suite 471
MONTREAL, QUEBEC H3A 1B9
Tel: +1 514 8490666
Fax: +1 514 4991012

M. MILLS Roy
Director, Standards
Bell-Northern Research Ltd.
P.O. Box 3511, Station C
OTTAWA, ONTARIO K1Y 4H7
Tel: +1 613 7633111
Fax: +1 613 7654470

M. PANCHMATIA Ashok
Deputy Vice-President, Sales & Business Development
Spar Aerospace Limited
20201 Clark Graham Avenue - Baie d'Urfe
QUEBEC H9X 3T5
Tel: +1 514 4572150 Ext. 7467
Fax: +1 514 4370459

M. POLANCO Juan
Director, Technology and Standards
Bell-Northern Research
P.O. Box 3511, Station C
OTAWA, ONTARIO
Tel: +1 613 7655196
Fax: +1 613 7632697

M. SMIRLE John C.
Director, International Market Development
MITEL Public Switching
350 Legget Drive
P.O. Box 13089
KANATA, ONTARIO
Tel: +1 613 5922122
Fax: +1 613 5910139

M. STEWART Guthrie
Executive Vice-President, Corporate Development
TELEGLOBE
1000 de la Gauchetière
ST. WEST. MONTREAL
Tel: +1 514 8688150
Fax: +1 514 8687719

M. TALHAMI Samir
Vice-President
TELEGLOBE
1000 Rue de la Gauchetière
ST. WEST. MONTREAL
Tel: +1 514 8687215
Fax: +1 514 8687015

M. TAYLOR Robin
Manager, Business Development and Corporate Financing
Spar Aerospace Limited
5090 Explorer Drive - Suite 900
MISSISSAUGA, ONTARIO L4W 4X6
Tel: +1 416 6297727 Ext. 7752
Fax: +1 416 6293431

Mme VAN DER VEN Yvonne
International Marketing & Sales Manager
Telesat Canada
1601 Telesat Court
GLOUCESTER, ONTARIO
Tel: +1 613 74801223
Fax: +1 613 7488925

**Chili
Chile
Chile**

M. ARENAS Jaime
Ejecutivo Negocios Internacionales
Compañía de Teléfonos de Chile
San Martín 50
SANTIAGO
Tel: +56 2 2345050

**Danemark
Denmark
Dinamarca**

M. TOFT Ole
Director, International Relations
Tele Danmark A/S
Telecom Denmark - Telegade 2
2630 TAASTRUP
Tel: +45 529111
Fax: +45 521028

M. ANDRESEN Thomas
Managing Director
Danish Teleconsult Int.
Skanderborgvej 232
8260 VIBY J.
Tel: +45 86 286455
Fax: +45 86 286499

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Danemark
Denmark
Dinamarca**

M. BRODERSEN Jorgen
Director
Danish Teleconsult Int.
Skanderborgvej 232
8260 VIBY J.
Tel: +45 86 286455
Fax: +45 86 286499

**Dominicaine (République)
Dominican Republic
Dominicana (República)**

M. NADAL Alvaro
Vice-Presidente Ejecutivo
All America Cables and Radio Inc. (AACR)
Josefa Perdomo No. 52 - Gazcue
SANTO DOMINGO
Tel: +1 809 2213211/2213111
Fax: +1 809 6862385

Mme TOLENTINO Mirtha
Consejera Legal
All America Cables and Radio Inc.
Calle Josefa Perdomo No. 52 - Gazcue
SANTO DOMINGO
Tel: +1 809 2213111/2213211
Fax: +1 809 6862385

**Equateur
Ecuador
Ecuador**

M. GRIJALVA Eduardo
Empresa Estatal de Telecomunicaciones (EMETEL)
Av. 6 de diciembre y Colón - Edificio Partenón
Presidencia Ejecutiva - 2do Piso
QUITO
Tel: +593 2 542597
Fax: +593 2 566577

M. QUIROZ Carlos
Empresa Estatal de Telecomunicaciones (EMETEL)
Av. 6 de diciembre y Colón - Edificio Partenón
Presidencia Ejecutiva - 2do Piso
QUITO
Tel: +593 2 509072
Fax: +593 2 568000

**Espagne
Spain
España**

M. BLANCO LOSADA Manuel
Director General de Planificación Corporativa
Telefónica de España
Telefónica de España - Gran Vía 28
28013 MADRID
Tel: +34 1 5233918
Fax: +34 1 5233952

M. ROJO SERRANO José Luis
Subdirector General de Cooperación Técnica
Telefónica de España
Subdirección Gral. de Cooperación Internacional, Beatriz de
Bobadilla, 3 Planta 12
28040 MADRID
Tel: +34 1 5849554
Fax: +34 1 5335581

M. AVENDAÑO GASCON Manuel
Director Dpto. Relaciones Internacionales
Telefónica de España
Departamento de Relaciones Internacionales c/ Beatriz de
Bobadilla, 3, Planta 9ª
28040 MADRID
Tel: +34 1 5849551
Fax: +34 1 5347972

M. DIAZ ASENSIO Domingo
Director Comercial Satelites
Telefonica de España S.A.
c/o Ramirez dee Arellano, 19 - 4 Piso
28043 MADRID
Tel: +34 1 3375756
Fax: +34 1 3375898

M. PFOST MINGUEZ Pablo
Experto en Organismos Internacionales
Telefónica de España
Departamento de Relaciones Internacionales Beatriz de
Bobadilla, 3 - Planta 9ª
28040 MADRID
Tel: +34 1 5849571
Fax: +34 1 5347972

M. PILLADO ORTIZ José María
Experto en Actividades Internacionales
Telefónica de España
Departamento de Relaciones Internacionales - Beatriz de
Bobadilla, 3 - Planta 9ª
28040 MADRID
Tel: +34 1 5849526
Fax: +34 1 5347972

Mme SANCHEZ URDIAIN Maria Socorro
Subdirectora de Organismos Internacionales
Telefónica de España
Departamento de Relaciones Internacionales c/ Beatriz de
Bobadilla, 3, Planta 9ª
28040 MADRID
Tel: +34 1 5849969
Fax: +34 1 5347972

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Etats-Unis d'Amérique
United States of America
Estados Unidos de América**

Mme ALONSO Ruby

Marketing Manager, Latin America/Caribbean Region
TELULAR INTERNATIONAL
1000 Brickell Avenue
Suite 1020
MIAMI, FL 33131
Tel: +305 3731323
Fax: +305 3795007

M. ANSELMO Reverage

Vice-President, Latin America
PANAMSAT
One Pickwick Plaza
GREENWICH, CT 06830
Tel: +1 203 6226664
Fax: +1 203 6229163

M. ANTOZAK Krystuin

Deputy Director
Ameritech International
225 W. Randolph, 18A
CHICAGO, IL 60606
Tel: +312 6098951
Fax: +312 2071573

Mme BAGNELL Pat

Consultant
AT&T Submarine Systems, Inc.
145 Stratford Road
NEEDHAM, MA 02192
Tel: +1 617 4440767

M. BANDE Andrés

President and TDAB Member
Ameritech International
225 W. Randolph, Floor 18
CHICAGO
Tel: +312 6096096
Fax: +312 2071573

M. BENTON Donald

Regional Director - Americas
FLAG Ltd. c/o NYNEX
222 Bloomingdale Rd.
WHITE PLAINS, NY 10605
Tel: +1 914 6444322
Fax: +1 914 6444345

M. CAMMISA Marcelo

Marketing and Sales Manager
MOTOROLA INC.
Paraguay 515 4 piso
BUENOS AIRES
Tel: +541 3120534
Fax: +541 3136569

M. CARTER William B.

President
AT&T Submarine Systems, Inc.
340 Mt. Kemble Avenue
MORRISTOWN, NJ. 07960
Tel: +1 201 3263500
Fax: +1 201 3262711

M. CHESTON T. Stephen

Director, International Government Affairs
IRIDIUM, Inc.
1401 H Street, N.W. - Suite 1800
WASHINGTON, D.C. 20005
Tel: +1 202 3265674
Fax: +1 202 8420006

M. CHU John

Program Manager
GTE
100 Ferguson Drive
MOUNTAIN VIEW
Tel: +415 9664188
Fax: +415 9664308

M. CINE Franck N.

Director Relations Int.
FCC
2 International Drive
RYE BROOK NY
Tel: +1 914 9346156
Fax: +1 914 9346830

M. CLARE Daniel

Consultant
MOTOROLA Inc.
Unit 3100
APO AA 34023
Tel: +503 983604
Fax: +503 983605

M. CODACOV I Lawrence

Vice-President - International Services
MCI International, Inc.
2 International Drive
RYE BROOK, NY 10573
Tel: +914 9346591
Fax: +914 9346912

M. CORRELL Chuck

Gerente de Marketing
United International Holdings Inc.
Av. R. Saénz Peña 547, Piso 3
BUENOS AIRES - ARGENTINA
Tel: +1 3426685

M. DELASKI Don

Director - International Services
MCI International, Inc.
2 International Drive
RYE BROOK, NY 10573
Tel: +914 9346533
Fax: +914 9346912

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Etats-Unis d'Amérique
United States of America
Estados Unidos de América**

Mme DUBOE Wendy

Director Business Development
AMERITECH INTERNATIONAL
225 W. Randolph, 18A
CHICAGO, IL 60606
Tel: +312 6098951
Fax: +312 2071573

M. ECKARD David

Manager, New Business Development
ESL
495 Java Drive - P.O. Box 3510
SUNNYVAK, CA 94088
Tel: +1 408 7522331

M. FARR Munther

Manager, Africa
MCI International, Inc.
2 International Drive
RYE BROOK, NY 10573
Tel: +1 914 9346115

Mme FARRIS DAGHER Nancy

Manager of Tactical Marketing
MOTOROLA
1501 West Shure Drive
ARLINGTON HEIGHTS, IL 60004
Tel: +1 708 6322758
Fax: +1 708 6325834

M. FORD Donald Troy

International Account Executive, Caribbean/Latin America
TELULAR INTERNATIONAL
1000 Brickell Ave.
Suite 1020
MIAMI, FL 33131
Tel: +305 3731323
Fax: +305 3795007

M. GROBERG Larry

Director, Government Affairs and Strategic Planning
IRIDIUM, Inc.
1401 H Street, N.W. - Suite 1800
WASHINGTON, D.C. 20005
Tel: +1 202 3265600
Fax: +1 202 8420006

Mme HANSON Marjorie

ADMERCA INTERNATIONAL
1155 Connecticut Avenue
N.W. WASHINGTON D.C. 20036
Tel: +1 202 4678540
Fax: +1 202 2239139

M. HARTMAN William

Director
Department of Defense - Electronic & Telecom. Evaluation
Centre
P.O. Box 18807
WASHINGTON D.C. 20036
Tel: +202 6530758
Fax: +202 6931036

M. JACOBSON Orlin

Asesor para América Latina
Av. R. Saenz Peña 547 - Piso 3 - Of. 165
BUENOS AIRES
Tel: +54 1 3426685
Fax: +54 1 3319842

M. JOGGERST Patrick

Managing Director, Americas
AT&T Submarine Systems, Inc.
6855 Red Road - Room 4C32
CORAL GABLES, FL 33143
Tel: +1 305 6626245
Fax: +1 305 6626420

M. JOHANSSON Pertti

Vice President
MOTOROLA
1501 W. Shure Drive,
ARLINGTON HEIGHTS, IL. 60004
Tel: +1 708 6325455
Fax: +1 708 6323026

M. KHAGHANI Sharam

Strategic Marketing Manager
MOTOROLA
1501 W. Shure Drive
Room 5207
ARLINGTON HEIGHTS, IL 60004
Tel: +708 6325392
Fax: +708 6325834

M. KOLSKY Leonard

Vice President, Global Telecom. Regulatory Affairs
MOTOROLA
1350 I Street, Suite 400
WASHINGTON D.C. 20005
Tel: +1 202 3716932
Fax: +1 202 8423578

M. LELENTAL Aron

Regional Sales Manager
Motorola
425 N. Martingale Rd
51700 SCHARMBURG, IL 60173
Tel: +1 708 7627392
Fax: +1 708 7627357

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Etats-Unis d'Amérique
United States of America
Estados Unidos de América**

M. LINDHORST Ken

Vice-President, Federal Government Affairs
AT&T
Room 1137L3, 295 N. Maple Avenue, Room 1137L3
BASKING RIDGE, NJ 07920
Tel: +1 908 2214791
Fax: +1 908 2214593

M. LYNCH Kevin

District Manager
AT&T
Room 441
412 Mount Kemble Avenue
MORRISTON, NEW JERSEY 07960
Tel: +1 201 6446321
Fax: +1 201 6447087

M. MALONEY Michael

Director, Advanced Programs, Space Systems
Space Systems
3825 Fabian Way
PALO ALTO, CA 94303
Tel: +415 8527611
Fax: +415 8525008

M. MARTINS Peter

Director Strategic Investment
Ameritech International
225 W. Randolph, 18A
CHICAGO, IL 60606
Tel: +312 6098951
Fax: +312 2071573

M. MECHANICK Maury

Vice-President, International & Regulatory Affairs
COMSAT CORPORATION
6560 Rock Spring Drive
BETHESDA, MARYLAND 20817
Tel: +301 2143470
Fax: +301 2147100

M. MIER Ed

Director General Centertel
Ameritech International
225 W. Randolph, 18A
CHICAGO, IL 60606
Tel: +312 6098951
Fax: +312 2071573

M. NIXON Richard Allan

Vice-President - Latin America/Caribbean Division
TELULAR INTERNATIONAL
1000 Brickell Avenue
Suite 1020
MIAMI, FL 33131
Tel: +305 3731323
Fax: +305 3795007

Mme O'CONNOR Teresa

Manager, Global Telecom.
MOTOROLA
1350 I Street, Suite 400
WASHINGTON D.C. 20005
Tel: +1 202 3716930
Fax: +1 202 8423578

M. PHILLIPS Robert R.

Technology Director
GTE Systems Group
1001 N.19th Street, Suite 1100
ARLINGTON, VIRGINIA 22209
Tel: +1 703 2479222
Fax: +1 703 5271348

M. QUIÑONES Eduardo

Director, Technical Sales Support
TELULAR INTERNATIONAL
1000 Brickell Avenue
Suite 1020
MIAMI, FL 33131
Tel: +305 3731323
Fax: +305 3795007

M. RAMLALL Richard

Director, Strategic Development
BELL ATLANTIC International
1310 N Courthouse RD - 5th Floor
ARLINGTON VA 22201
Tel: +1 703 3514542
Fax: +1 703 3514523

Mme ROBERTS Janet

Director of Marketing
AT&T Submarine Systems, Inc.
340 Mt. Kemble Avenue
MORRISTOWN, NJ 07960
Tel: +1 201 3265174
Fax: +1 201 3262609

M. RODRIGUEZ Chris

Manager - South America
MCI International, Inc.
2 International Drive
RYE BROOK, NY 10573
Tel: +914 9346109
Fax: +914 9346912

M. SENDELE Steve

Manager
TELULAR
920 Doorfiels
BUFFALO GROVE, IL 60089
Tel: +1 708 4654500
Fax: +1 708 4654503

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Etats-Unis d'Amérique
United States of America
Estados Unidos de América**

M. SINGER Martin

Vice President and Director
MOTOROLA
1501 W. Shure Drive, Room W394
ARLINGTON HEIGHTS, IL 60062
Tel: +1 708 6324484
Fax: +1 708 6322672

Mme SLESINGER Cathy

Executive Director - International Affairs
NYNEX
1300 I Street, N.W. - Suite 400
WASHINGTON, D.C. 20005
Tel: +1 202 3367870
Fax: +1 202 3367923

M. SORGE Thomas

Director - South America
MCI International, Inc.
2 International Drive
RYE BROOK, NY 10573
Tel: +914 9346977
Fax: +914 9346912

M. SUAREZ Juan

Manager
MCI International, Inc.
Maipú 1300 - 19 - A
1006 BUENOS AIRES - ARGENTINA
Tel: +54 1 3125335
Fax: +54 1 3151435

M. TAGARE Sunil

V. P. Marketing & Business Development
FLAG Ltd. c/o NYNEX
222 Bloomingdale Rd.
WHITE PLAINS, NY 10605
Tel: +1 914 6444327
Fax: +1 914 6444345

M. TAGLIALATELA Carmine Jr.

Executive Staff
MCI Telecommunications Corporation
1801 Pennsylvania Avenue, N.W.
WASHINGTON, D.C. 20006
Tel: +1 202 8872872
Fax: +1 202 8872262

M. TELEKI Stephen

Consultant
Ameritech International
225 W. Randolph, 18A
CHICAGO, IL 60606
Tel: +312 609 8951
Fax: +312 2071573

Mme TOMIC Vesna

Manager, Corporate Development
Sprint International Strategic Planning
12490 Sunrise Valley Drive
RESTON, VA. 22096
Tel: +703 6895533
Fax: +703 6897718

M. URBANY Frank

Director, International and Agency Relations
Bell South
1133 21st Street, N.W.
WASHINGTON, D.C. 20036
Tel: +1 202 4634110
Fax: +1 202 4634198

Mme WILLIAMS Mary Kay

Director, Global Telecommunications Policy
GTE Spacenet Corporation
1700 Old Mcadow Road
McLEAN, VA 22102
Tel: +703 8481524
Fax: +703 8481184

M. WOLKOWICZ Kenneth

Area Sales Manager, Latin America
MOTOROLA INC.
1475 W. Shure Dr.
ARLINGTON HEIGHTS, ILLINOIS 60004
Tel: +708 3626001
Fax: +708 6323164

M. YEGAN JR. Dick

Regional Account Manager
MOTOROLA INC.
1301 E. Algonquin Road
SCHAUMBURG, ILLINOIS 60196
Tel: +708 5760039
Fax: +708 5761895

M. ZEVENBERGEN Willem

International PR District Manager-Communications Services
412 Mt. Kemble avenue, Mor Room C-113
MORRISTOWN, NJ 07960
Tel: +201 6441581
Fax: +201 6447166

**France
France
Francia**

Mme ANDRE Geneviève

Ingénieur responsable Département Argentine, Direction des
Réseaux Publics
FRANCE TELECOM
124, rue Réaumur
75002 PARIS
Tel: +33 1 42217707
Fax: +33 1 42217614

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

France
France
Francia

M. BOYER Dominique

Directeur Développement des Ventes Internationales
Télécommunications Radioélectriques et Téléphoniques
16, avenue Descartes
92352 LE PLESSIS ROBINSON
Tel: +33 1 41286373
Fax: +33 1 41286248

M. BROCHIER Bruno

Directeur Général adjoint
FRANCE TELECOM
6, Place d'Alleray
75015 PARIS
Tel: +33 1 44440653
Fax: +33 1 44449633

M. COHEN Laurent

Asesor
FRANCE TELECOM
Avenida Leandro N Alem 690 - 3 piso
1001 BUENOS AIRES
Tel: 541 3133750
Fax: 541 3121859

M. COMPAGNION Philippe

Chargé de mission auprès du Directeur Général
S.F.R.
212 Rue Raymond Losserand
PARIS
Tel: +33 1 40443301

Mme COSNIER Marie-Noëlle

Telecom Manager
FRANCE TELECOM
7, Bd Romain Rolland
92000 MONTROUGE
Tel: +33 1 44445044
Fax: +33 1 44444295

M. FERMINE Daniel

Ingénieur d'affaires - Département Argentine, Direction des
Réseaux Publics
FRANCE TELECOM
124, rue Réaumur
75002 PARIS
Tel: +33 1 42217814
Fax: +33 1 42217614

M. GELDWERTH Roland

Directeur
FRANCE TELECOM
L.N. Alem 690
1014 BUENOS AIRES
Tel: +54 1 3133750
Fax: +54 1 3121859

M. LORIN DE REURE Isabelle

Présidente
FRANCE TELECOM America del Sur
7, Bd. Romain Rolland
92 128 MONTROUGE
Tel: +54 1 3133750
Fax: +54 1 3121859

M. MEGE Philippe

Ingénieur Marketing International
THOMSON-CSF
66, rue du Fossé Blanc - B.P. 156
92231 GENNEVILLIERS CEDEX
Tel: +33 1 46132145
Fax: +33 1 46133433

M. RAJADEL Michel

Chef Groupement Ameriques
FRANCE TELECOM
7 Boulevard Romain Rolland
9218 MONTROUGE
Tel: +33 1 44445179
Fax: +33 1 4446328

M. ROCHETTE Philippe

Ingénieur commercial
THOMSON-CSF
66, rue du Fossé Blanc - B.P. 156
92231 GENNEVILLIERS CEDEX
Tel: +33 1 46132237
Fax: +33 1 46133433

M. RODOLFO Jean-François

Directeur des Ventes Amérique Latine
Télécommunications Radioélectriques et Téléphoniques
16, avenue Descartes
92352 LE PLESSIS ROBINSON
Tel: +33 1 41286232
Fax: +33 1 41286236

M. ROUHAUD Pierre

Director Comercial
FRANCE TELECOM
24 Av. du Petit Parc
VINCENNES
Tel: +33 1 43985502

Mme ROULAND Marie Christine

Directeur France Telecom Mexico
FRANCE TELECOM
Sevilla 4
MEXICO DF
Tel: +33 1 5332002
Fax: +33 1 5258413

M. VAZQUEZ José

Director
FRANCE TELECOM
R. Japão, 85 - Ap. 35 - CEP 04530-070
SAO PAULO
Tel: +55 11 8529886
Fax: +55 11 2829069

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**France
France
Francia**

M. ZUMELZU Louis
Area Manager Latin America
FRANCE TELECOM
7, rue Romain Rolland
92128 MONTROUGE CEDEX
Tel: +33 1 44445035
Fax: +33 1 44444295

**Israël (Etat d')
Israel (State of)
Israel (Estado de)**

M. LUBIENIECKI Leonardo
International Marketing and Sales Manager
TADIRAN
18 Hasivim Street
PETAH TIKVA
Tel: +972 3 9261458
Fax: +972 3 9262328

**Italie
Italy
Italia**

M. ANTONETTI Mauro
Vice President
Societa Italiana per l'Esercizio delle Telecomunicazioni (SIP)
Casella Postale AD 2420 - Via Flaminia, 189
00196 ROMA
Tel: +39 6 36881

M. BALDONI Paolo
Director Foreign Market
STET
Corso d'Italia 61
00198 ROMA
Tel: +39 6 5755274
Fax: +39 6 57344502

M. CARNEVALE Mario
Deputy Director of Research
Fondazione Ugo Bordoni
Via B. Castiglione 59
00142 ROME
Tel: +39 6 54803500
Fax: +39 6 54804406

M. COLAVITO Cosmo
Executive Director - International Affairs, and TDAB Member
Societa Italiana per l'Esercizio delle Telecomunicazioni (SIP)
Via Flaminia, 189
00196 ROMA
Tel: +39 6 36882440
Fax: +39 6 36883155

M. D'ANDRIA Emanuele
Head Space Segment and Frequency Management Division
Telespazio S.p.A.
Via Triburtina, 965
00156 Rome
Tel: +39 6 40793370
Fax: +39 6 40793624

M. DE FLAMMINEIS Augusto
Director, Int. Relations
STET
Corso d'Italia 41
00198 ROME
Tel: +39 6 8589524
Fax: +39 6 8589614

M. GUARNERA Antonio
Business Division
SIP
Via di Valcannuta, 186
00166 ROME
Tel: +39 6 36883660

M. MAZZANTINI Giuseppe
Manager Int. Direction
STET
Corso d'Italia 41
00198 Rome
Tel: +39 6 54945340
Fax: +39 6 5925235

M. REPACI Giuseppe
Manager, Int. Relations
STET
Corso d'Italia 41
00198 Rome
Tel: +39 6 8589524
Fax: +39 6 8589614

M. VALORI Duccio
President
IRITEL
Viale Europa, 190
00144 ROMA
Tel: +39 6 54941

M. VERLICCHI Mario
Directeur Commercial
IRITEL
Viale Europa, 190
00144 ROMA
Tel: +39 6 54941

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Japon
Japan
Japón**

M. HOSHI Tsuneo

Senior Manager, International Affairs Department
Nippon Telegraph & Telephone Corporation (NTT)
1-1-6, Uchisaiwai-cho, Chiyoda-ku
TOKYO
Tel: +81 3 34955215
Fax: +81 3 34955219

M. Ii Chikai

Assistant to the G.M., Telecommunications Division
HITACHI Ltd
216 Totsuka-cho, Totsuka-ku
YOKOHAMA 244
Tel: +81 45 8811221
Fax: +81 45 8657056

M. ISHIGURO Tatsuo

Vice-President
NEC Corporation
7-1, Shiba 5-chome, Minato-ku
TOKYO 108-01
Tel: +81 3 37989529
Fax: +81 3 37986598

M. IWASO Kozo

Secretary-General
The New ITU Association of Japan, Inc
Kyodo Bldg. 5th floor - 2-4 10 Iwamoto-cho - Chiyoda-ku
TOKYO
Tel: +81 3 58205620
Fax: +81 3 58205621

M. KOJIMA Mitsuo

Vice Chairman and TDAB Member
The New ITU Association of Japan, Inc.
Kyodo Bldg. 5th floor - 2-4 10 Iwamoto-cho - Chiyoda-ku
TOKYO 101
Tel: +81 3 58205620
Fax: +81 3 58205621

M. NAKAMURA Kozo

Manager, Strategic Planning Office, Telecom Group
OKI Electric Industry Co., Ltd.
4-10-16, Shibaura, Minato-ku
TOKYO 108
Tel: +81 3 34542111
Fax: +81 3 37987636

M. ODERA Eiichi

General Manager, Global Coordination, International Telecom
Group
FUJITSU Ltd
3-12 Higashi-Shinagawa, 2-Chome, Shinagawa-ku
TOKYO 140
Tel: +81 3 54607260
Fax: +81 3 54607379

M. SATO Takashi

Senior Manager, International Organizations Division
Kokusai Denshin Denwa Co., Ltd.
P.O. Box No. 1 KDD Building - Shinjuku
TOKYO 163-03
Tel: +81 3 33476478
Fax: +81 3 33476470

**Mexique
Mexico
México**

M. ROJAS Victor

Ingeniero
TELEVISA S.A.
Av. Chapultepec 28
06724 MEXICO D.F.
Tel: +52 5 7093936
Fax: +52 5 7093946

**Norvège
Norway
Noruega**

Mme ELDEN Berit

Director
Norwegian Telecom, Nortelcon
P.O.Box 6701 - St. Olavs plass -
0130 OSLO
Tel: +47 22 778707
Fax: +47 22 778974

Mme NODING Eva

Advisor
Norwegian Telecom
P.O.Box 6701 - St. Olavs plass -
0130 OSLO
Tel: +47 22 777753
Fax: +47 22 778974

M. SANDNES Björn

Director and TDAB Member
Norwegian Telecom
P.O.Box 6701 - St. Olavs plass -
N - 0130 OSLO 1
Tel: +47 22 777825
Fax: 47 22 114461

M. UTVIK Einar

Head, International Relations
Norwegian Telecom
P.O.Box 6701 S7. Olavs Plass
N-0130 OSLO
Tel: +47 22 777898
Fax: +47 22 778062

**ROAS, MANUFACTURERS & OTHERS - ROAS, INDUSTRIES ET AUTRES - EMPRESAS DE EXPLOTACIÓN
RECONOCIDAS, INDUSTRIAS Y OTROS**

**Portugal
Portugal
Portugal**

M. GOMES DE AZEVEDO Antonio
Director
Telecom Portugal
Av. Fontes Pereira de Melo, 40
1089 LISBOA
Tel: +351 1 540020
Fax: +351 1 522501

**République tchèque
Czech Republic
República Checa**

M. MAKOVEC Jirí
Director General
SPT Telecom, A.S.
Olsanská, 5
130 00 PRAHA
Tel: +42 2 67142606
Fax: +42 2 6919168

M. MICHNA Alès
Managing Director and TDAB Member
PHILIPS Communication Systems
Koněvova 141
130 00 PRAHA 3
Tel: +42 2 6441502
Fax: +42 2 6440558

**Singapour (République de)
Singapore (Republic of)
Singapur (República de)**

M. TOON Lim
Executive Vice-President
Singapore Telecommunications Pte Ltd.
31 Exeter Road
#27-00 SINGAPORE 0923
Tel: +65 8382600
Fax: +65 7373691

**Suède
Sweden
Suecia**

M. NORDGREN Roland
Director & General Manager, Market Operations Latin America
Ericsson
12625 STOCKHOLM
Tel: +46 8 7191873
Fax: +46 8 450722

M. RAMQVIST Lars
President and Chief Executive Officer
Ericsson
12625 STOCKHOLM
Tel: +46 8 7193418
Fax: +46 8 7190899

M. RESTUCCIA Eduardo
General Manager Ericsson, Argentina
Ericsson
Madero 1020
BUENOS AIRES - ARGENTINA
Tel: +46 8 7190906
Fax: +46 8 7190899

M. SVENSON Alfred
Director, Corporate Markets
Ericsson
12625 STOCKHOLM
Tel: +46 8 7192929
Fax: +46 8 7190899

**Suisse (Confédération)
Switzerland (Confederation of)
Suiza (Confederación)**

M. BETSCHART Peter
President
ADMERCA CORPORATION
Arosastrasse 25
8008 ZURICH
Tel: +41 1 4224177
Fax: +41 1 4229777

Arabie saoudite (Royaume d')
Saudi Arabia (Kingdom of)
Arabia Saudita (Reino de)

M. BENYOUCEF Mohammed
 Project Manager, OICI-NET
 Islamic Development Bank
 P.O. Box 5925
 JEDDAH 21432
 Tel: +966 2 6361400
 Fax: +966 2 6378927

Argentine (République)
Argentine Republic
Argentina (República)

M. ALATI Rafael Mario
 Coordinador Técnico
 Oficina Supervisión de Operadores de Telecom.
 R.S. Castillo y Antepuerto Junin CP 1104
 BUENOS AIRES
 Tel: +54 1 3121211

M. AVALIS Víctor Hugo
 Director Departamento Electricidad y Electrónica
 Universidad del NorEste (UNNE)
 Av. Las Heras 725
 3500 RESISTENCIA (CHACO)
 Tel: +54 722 23046
 Fax: +54722 25064

M. BERGSVIK Arne
 Public Relations
 Rio de Janeiro 284
 BUENOS AIRES
 Tel: +54 1 9825535

M. BORDON VIDELA Mario Alfredo

M. BRAVO Ezequiel
 Vice-Presidente

M. CHVAPIL José Luis
 Gerente General
 REDSAT Sudamericana S.A.
 Esmeralda 130, Piso 9
 BUENOS AIRES
 Tel: +54 1 3343440
 Fax: +54 1 3343479

M. CORSIGLIA Luis María
 Secretario
 Bolsa de Comercio de Buenos Aires
 Sarmiento 299, 1er Piso
 BUENOS AIRES
 Tel: +54 1 3137129
 Fax: +54 1 312 5010

Mme CORVALAN Laura
 Productor Sector Operaciones
 COMFER
 Paseo Colón 315, 2 piso
 BUENOS AIRES
 Tel: 3430960

Mme GAMBACCINI Ana
 Socia-Gerente
 SEMIOTICA SRL
 Rivadavia 1210
 2 piso Of. 4
 BUENOS AIRES
 Tel: +54 1 3835023/1185
 Fax: +54 1 3817258

M. GIOIA César
 Telecom

M. GRAND Oscar
 Presidente
 Telefónica de Argentina
 Quirno Costa 3318
 1618 EL TALAR (Pcia Buenos Aires)
 Tel: +54 327 55000
 Fax: +54 327 53000

M. LARREA Oscar Alberto
 Presidente
 COPITEC
 Perú 562
 BUENOS AIRES
 Tel: +54 1 3438407
 Fax: +54 1 3438423

M. LEDER Adrián

M. LORETI Damian
 Abogado
 Semiotica SRL
 Rivadavia 1210
 2 piso Of. 4
 BUENOS AIRES
 Tel: +54 1 3817258
 Fax: +54 1 3810172

M. MAIMONE Carlos Alberto
 Jefe
 Supervisión de Operadores de Telecomunicaciones
 R.S. Castillo y Antepuerto Junin CP 1104
 BUENOS AIRES
 Tel: +54 1 3121211

M. MUDEH Daniel
 Project Manager
 The Exxel Group
 Av. Libertador 602 - Piso 22
 BUENOS AIRES
 Tel: +54 1 426434
 Fax: +54 1

**Argentine (République)
Argentine Republic
Argentina (República)**

M. PEREZ Omar Adolfo
Subdirector
TIPS
Leandro N. Alem 1067 - 7th Floor
D.N. CORDOBA 443

M. SORIA Hugo
Jefe de Sistemas
Bolsa de Comercio de Buenos Aires
Sarmiento 299, 1er Piso
BUENOS AIRES
Tel: +54 1 3137129
Fax: +54 1 312 5010

M. TROWBRIDGE James
Analyst
Banque Indosuez
1166 Reconquista, Piso 12
BUENOS AIRES
Tel: +54 1 3135910
Fax: +54 1 3135400

M. VETRONE Manuel
San Martín 50
BUENOS AIRES
Tel: +54 1 4773720
Fax: +54 1 3313192

**Brésil (République fédérative du)
Brazil (Federative Republic of)
Brasil (República Federativa del)**

Mme LACOMBE FRANCA Adriana
Investment Analyst
Banque Indosuez
Al. Franca 318 - Ap. 151
SAO PAULO
Tel: 011 2830161
Fax: 011 2826559

**Cambodge
Cambodia
Camboya**

M. KIM Seong Chool
Managing Director
Seamont Industries PTC
60 Albert Street #10-11 Albert Complex
SINGAPORE 0718
Tel: +65 3390606
Fax: +65 3396733

**Canada
Canada
Canadá**

Mme DURRANT Fay
Senior Program Specialist
International Development Research Centre
Plaza de Cagancha 1335, Piso 9
Casilla de Correo 6379
MONTEVIDEO
Tel: +598 2 922031/34
Fax: +598 2 920223

**Dominicaine (République)
Dominican Republic
Dominicana (República)**

M. PEREZ-DUCY Thomas
Director Planificación de Mercadeo y Desarrollo Negocios
CODETEL
Av. Abraham Lincoln 1101
SANTO DOMINGO
Tel: +809 2202564
Fax: +809 5443536

M. THOMPSON Celso
Vicepresidente Administrativo & Recursos Humanos
CODETEL
Abraham Lincoln 1101
SANTO DOMINGO
Tel: +809 2202107
Fax: +809 54331300

**Etats-Unis d'Amérique
United States of America
Estados Unidos de América**

M. ANGELO Homer G.
Professor of International Law
University of California
DAVIS, CA 95616
Tel: +1 916 7522890
Fax: +1 916 7524704

M. BLOCK David R.
Manager, Business Development
ARK Telecom
124 Carmen Lane, Suite K
SANTA MARIA, CA 93454
Tel: +805 3492751
Fax: +805 3492750

M. BRANSFORD Louis
President
Public Service Telecommunications Corporation
2 Skyline Place, Suite 1303
5203 Leesburg Pike
FALLS CHURCH, VA 22041-3406
Tel: +1 703 9981703
Fax: +1 703 9988480

**Etats-Unis d'Amérique
United States of America
Estados Unidos de América**

Mme CORNELL Diane
Senior Legal Adviser
Federal Communications Commission
1919 M Street, N.W. - Room 814
WASHINGTON, D.C. 20554
Tel: +1 202 4181000
Fax: +1 202 6320163

M. FLORIAN Mario
Regional Director Latin America
Orbital Communications Corporation
21700 Atlantic Boulevard
DULLES, VIRGINIA 201666
Tel: +703 4065305
Fax: +703 4063508

M. GRIFL Walter
Senior Consultant
LYX TECHNOLOGIES INC.
P.O. Box 368
LITTLE FALLS, NEW JERSEY 07424
Tel: +201 2567200
Fax: +201 8823583

M. HUNDT Reed
Chairman
Federal Communications Commission
1919 M Street, N.W. - Room 814
WASHINGTON, D.C. 20554
Tel: +1 202 6326600
Fax: +1 202 6327092

M. IRVING Larry
Assistant Secretary and Administrator
National Telecommunications & Information Administration
U.S. Department of Commerce, Room 4898 - 14th &
Constitution Avenue, N.W.
WASHINGTON, D.C. 20230
Tel: +1 202 4821551
Fax: +1 202 4821635

M. KIMBALL Harold G.
Senior Adviser to the Bureau of Int'l Communication &
Information Policy
U.S. Department of State
2201 C Street, N.W. - Room 2318
WASHINGTON, D.C. 20520
Tel: +1 202 6472592
Fax: +1 202 6477407

M. LEVIN Robert
Vice-President, Internatioonal Marketing
Satellite Transmission Systems
125 Kennedy Drive
Hauppauge
NEW YORK 11949
Tel: +516 2311919
Fax: +516 2311896

Mme McCANN Vonya
Senior Adviser to the Under Secretary for Economic &
Agricultural Affairs
U.S. Department of State
2201 C Street, N.W. - Room 6313
WASHINGTON, D.C. 20520
Tel: +1 202 7364167
Fax: +1 202 6475957

M. MILLER Jerry A.
Vice-President Business Development
STC SUBMARINE SYSTEMS INC.
591 Camino de la Reina
SAN DIEGO
Tel: +619 2955182
Fax: +619 6920123

M. MUSARRA Gerald
Counsel and Director, Commercial Programs
Lockheed Missiles & Space Company, Inc.
1725 Jefferson Davis Highway - Suite 300
ARLINGTON, VA 22202
Tel: +1 703 4135791
Fax: +1 703 4135819

Mme PADILLA Leslie
Trade and Development Officer for Latin American & the
Caribbean
U.S. Department of State
2201 C Street, N.W. - Room 5310
WASHINGTON, D.C. 20520
Tel: +1 202 6479340
Fax: +1 202 6470158

M. PEREZ Rafael
Manager, Applications Engineer
Satellite Transmissions Systems
125 Kennedy Drive
Hauppauge
NEW YORK 11788
Tel: +516 2311919
Fax: +516 2311896

M. QUIROS Pedro
Vice-President
ASCOM TIMEPLEX, INC.
8925 S.W. 148th Street
Suite 218
MIAMI
Tel: +305 2388505
Fax: +305 2388403

M. RUSCH Roger

Mme SAENZ Flor
Director of Tariffs Research
LYNX TECHNOLOGIES INC.
P.O. Box 368
LITTLE FALLS, NEW JERSEY 07424
Tel: +201 2567200
Fax: +201 8823583

Etats-Unis d'Amérique
United States of America
Estados Unidos de América

M. SALAH Danny

Associate
 PUTNAM, Hayes & Bartlett, Consulting Firm
 100 Hamilton Avenue, Suite 2000
 PAOLO ALTO, CA 94301
 Tel: +1 415 3221300
 Fax: +1 415 3221479

M. SAMARA Noah

Chairman and Chief Executive Officer
 Worldspace Corporation
 1730 Rhode Island Avenue, N.W.
 WASHINGTON, D.C. 20036
 Tel: +1 202 4088071
 Fax: +1 202 4085292

M. SCHARPF Walter

Director International Marketing
 Satellite Transmission Systems Inv.
 125 Kennedy Drive
 Hauppauge
 NEW YORK 11949
 Tel: +516 2311919
 Fax: +516 2311896

M. SMITH Frederick A.

Administrative Officer
 U.S. Department of State
 Office of International Conferences - 2201 C Street, N.W. -
 Room 1428
 WASHINGTON, D.C. 20520
 Tel: +1 202 6472511
 Fax: +1 202 6471301

M. SPELTZ Len

Telecom Industry
 Tel: +1 310 8145927
 Fax: +1 310 8137535

France
France
Francia

M. BEALE Jeremy

Organization for Economic Co-operation & Development
 2, rue André Pascal
 75775 PARIS CEDEX 16
 Fax: +33 1 45 249332

M. DURAND Philippe

Directeur des Exportations
 MET Commutation
 19, avenue Carnot
 91348 MASSY
 Tel: +33 1 64475731
 Fax: +33 1 64475628

M. GACHET Guy

Responsable Régional Amérique Latine
 MET Commutation
 19, avenue Carnot
 91348 MASSY
 Tel: +33 1 64475790
 Fax: +33 1 64475628

Italie
Italy
Italia

M. BONCOMPAGNI LUDOVISI Paolo

Responsible for International Cooperation
 Societa Italiana per l'Esercizio delle Telecomunicazioni (SIP)
 Casella Postale AD 2420 - Via Flaminia, 189
 00196 ROMA
 Tel: +39 6 36881 ext. 2175
 Fax: +39 6 36883155

M. ENEA Giuseppe

Consultant
 Via Fiume Bianco, 5
 ROMA
 Tel: +39 6 5296239

Malaisie
Malaysia
Malasia

M. ABDUL KADIR Shamsuddin

Executive Chairman
 SAPURA Holdings SDN BHD
 Bangunan Sapura - Jalan Enggang
 54200 KUALA LUMPUR
 Tel: +60 3 4572033
 Fax: +60 3 4519631

M. KHALILUR Ibrahim

Managing Director
 Sapura Research
 Goi, Sharidal Court, Taman Sri Ukay
 68000 Ampang
 SELANGOR
 Tel: +60 3 4515528
 Fax: +60 3 4565008

Pays-Bas (Royaume des)
Netherlands (Kingdom of the)
Países Bajos (Reino de los)

M. OSBORN Paul

Executive Director
 One Foundation
 Herman Gorterhof, 102
 1422 JS UITHOORN
 Tel: +31 2975 68783
 Fax: +31 2975 40514

Royaume-Uni de Grande-Bretagne et d'Irlande du Nord
United Kingdom of Great Britain & Northern Ireland
Reino Unido de Gran Bretaña e Irlanda del Norte

M. WALKER Steve
 Research Director
 One Foundation
 42 Paradise St.
 MACCLESFIELD, SK11 6QN
 Tel: +41 61 2287979
 Fax: +41 61 2476333

Rwandaise (République)
Rwandese Republic
Rwandesa (República)

M. NGABONZIZA Jean Baptiste
 Directeur Commercial
 Rwandatel S.A.
 B.P. 1332
 KIGALI
 Tel: +250 75105
 Fax: +250 77700

Uruguay (République orientale de l')
Uruguay (Eastern Republic of)
Uruguay (República Oriental del)

M. COSTA José
 Presidente
 Zona Libre Comercio Internacional
 MONTEVIDEO
 Tel: +598 2 965128
 Fax: +598 2 965145

* * * * *

M. ADLER Johan
 Senior General Manager, Public Affairs
 Telkom
 Private Bag X780
 PRETORIA 0001, R.S.A.
 Tel: +27 12 3114785
 Fax: +27 12 214753

M. CELLI Gabrielle
 General Manager, Corporate Strategy
 Telkom
 Private Bag X780
 PRETORIA 0001, R.S.A.
 Tel: +27 12 3113300
 Fax: +27 12 3113314

M. FYFE Derek
 Senior General Manager, Professional Services
 Telkom
 Private Bag X74
 PRETORIA 0001, R.S.A.
 Tel: +27 12 3111306
 Fax: +27 12 3111061

M. GIBBONS Peter
 TRANSTEL
 P.O. Box 2504
 Joubert Park
 JOHANNESBURG 2044, R.S.A.
 Tel: +27 11 7734424
 Fax: +27 11 7734401

M. HLONGWANI Bambatha
 Centre for the Development of Information & Telecom. Policies
 187 Longsbank Building - Bree Street
 JOHANNESBURG 2001, R.S.A.
 Tel: +27 11 8381754

M. MOHOLI Nombulelo
 General Manager, In-Touch Business Marketing
 Telkom
 Private Bag X74
 PRETORIA 0001, R.S.A.
 Tel: +27 12 3113478
 Fax: +27 12 3233310

M. NGWENYA Moss
 TRANSTEL
 P.O. Box 2504
 Joubert Park
 JOHANNESBURG 2044, R.S.A.
 Tel: +27 11 7735651
 Fax: +27 11 7734410

M. NUTTALL Mike
 TRANSTEL
 P.O. Box 2504
 Joubert Park
 JOHANNESBURG 2044, R.S.A.
 Tel: +27 11 7735569
 Fax: +27 11 7735406

Mme SEROMO Minky
 Manager, Communication Relations
 Telkom
 P.O. Box 925
 PRETORIA 0001, R.S.A.
 Tel: +27 12 3111642
 Fax: +27 12 3114031

M. STAVROU Stavros
 Development Researcher and Community Liaison
 African National Congress
 P.O. Box 37656 - Overport
 4067 DURBAN, R.S.A.
 Tel: +27 31 3032756
 Fax: +27 31 231487

M. ZAAIMAN Jannie
 Senior General Manager, Management Services
 Telkom
 Private Bag X780
 PRETORIA 0001, R.S.A.
 Tel: +27 12 3111207
 Fax: +27 12 3114753

A. Elected Members

Dr. P. TARJANNE
Secretary-General

M. J. JIPGUEP
Deputy Secretary-General

M. A.Ph. DJIWATAMPU
Director, Telecommunication Development Bureau

M. Th. IRMER
Director, Telecommunication Standardization Bureau

M. R.C. KIRBY
Director, Radiocommunication Bureau

Mme M.A. PALMETER
Assistant to the Secretary-General and Elected Officials

M. J.-M. ESTERO
Logistic Support

Mme P. FACCIN
Fellowships

M. E. GARITA
Counsellor - Americas

M. J. HERRERA
Counsellor - Human Resources Development

M. Y. KOUROUMA
Counsellor - Africa

M. P.S. KURAKOV
Chief, Field Operations Department

M. A. LAOUYANE
Chief, Policies, Strategies & Programming Department

B. BDT

Mme F. AZODOGBEHOU
Counsellor - Sectoral Follow-up

M. A. BAIRI
Head, ITU Regional Office, Cairo

M. C. BLANQUART
Head, Organization and Methods

Mme D. BOGDAN
Policy Analyst

M. M. CISSE
Head, ITU Regional Office, Addis Ababa

M. G. DAVEY
Head, ITU Regional Office, Bangkok

M. R. DAVIDSON
Counsellor - Evaluation

M. J. ELOTU
Counsellor - International Organizations & LDC's

Mme A. ENDERLIN
Counsellor - Resource Mobilization

M. Johan ERNBERG
Counsellor - Telecommunication Development Conferences

M. M. MINGES
Information Systems

M. J. MULLER
Counsellor - Special Studies & Backstopping

M. C. SANCHEZ
Head, Budget Coordination Service

M. J. SCHIFFERLI
Chief, Equipment Procurement Service

M. D. STAGLIANO
Counsellor - Telecommunication Policies

M. J. ZAVATTIERO
Head, ITU Regional Office, Brasilia

B. BDT - Secretariat

Mme G. CAGLIARI

Mme L. CHOUTKO

Mme R.M. GANOSE

Mme M.D. GARIN

Mme I. GORDON

ITU STAFF / PERSONNEL UIT

Mme D. MARTIN

Mme M. MCGRATH

Mme P. PINILLOS

Mme M. PLACCI

Mme E. SELLIER

Mme V. ZANETTI

Mme F. LAMBERT

Chief Press

M. D. MACLEAN

Head, Strategic Policy and Planning Unit

M. V. MUCCIOLI

Counsellor - Finances

M. P. PRASAD

Computer Network Systems

M. A. TAZI-RIFFI

Chief, Finance Department

M. T. RAS-WORK

Head, External Affairs

B. BDT Consultants

M. E. BECHER

Consultant

M. M. DECINA

Consultant

M. D. LEVINE

Consultant

M. G. WARREN

Consultant

BR. Radiocommunications

M. R. NICKELSON

Senior Counsellor - Radiocommunication Bureau

C. General Secretariat

M. J. ALLINGER

Head Reprography

M. K. BOUSSAID

Strategic Policy and Planning Unit

M. T. DAHL-HANSEN

Executive Director, TELECOM

M. X. ESCOFET

Counsellor - Relations with Members

M. J. ESCUDERO

Chief, Conference Services

M. L. GOELZER

Chief, Information System Department

C. G.S. Secretariat

Mme E. BARON

M. T. BERROD

Mme D. BOCCARD

Mme B. BUX

M. M. CIVIC

Mme A. CORRAL

M. R. GACHET

Mme I. HARAN

Mme J. JOUFFROY

M. B. PIHEN

Mme L. QUIROGA DE COLOMBO

M. V. VAZQUEZ

D. Interpretation

Mme S. ABDELLATIF

Interpreter

ITU STAFF / PERSONNEL UIT

Mme L. ALEXANDERSON
Interpreter

Mme Ch. ARNAOUT
Interpreter

M. A. ATTIA
Interpreter

Mme M. BARNABE
Interpreter

Mme A. BERZON
Interpreter

Mme C. BIELIK
Interpreter

Mme V. BOGDANOVA
Interpreter

M. J. CHI
Interpreter

Mme Ch. CUCCHI
Interpreter

Mme M. DE GREN
Interpreter

Mme E. DESBONNET
Interpreter

M. A. DOROGOI
Interpreter

Mme M. DUCROUX
Interpreter

M. A. EL-MANZALAWIY
Interpreter

Mme G. ELIAS
Interpreter

Mme J. FEIR
Interpreter

Mme W. GRABIA
Interpreter

M. N. GREGORY
Interpreter

Mme M. GUCASSOFF
Interpreter

Mme G. GUTTERO
Interpreter

Mme S. HAYNAL
Interpreter

Mme A. HENCHOZ STEFANOVICH
Interpreter

Mme R. JAMES
Interpreter

M. M. KHALLAF
Interpreter

Mme Y. LEI
Interpreter

Mme F. MASTOUR
Interpreter

Mme R. PAN
Interpreter

Mme M. PEREZ DUARTE
Interpreter

Mme A. RANDLE
Interpreter

Mme R. ROZIC
Interpreter

M. J.L. SCHOTT
Interpreter

M. V. SOUDOVTSEV
Interpreter

M. Y. SOUVOROF
Interpreter

Mme F. STUBY
Interpreter

Mme F. TOW

Interpreter

Mme J. UDLER

Interpreter

Mme P. WANG REISER

Interpreter

Mme D. WOLFOWITZ-SOLIS

Interpreter

Mme Z. WU

Interpreter

M. J. YANG

Interpreter

Mme X. ZENG

Interpreter

E. Translation

M. G. ALVAREZ-SANTULLANO

Translator

M. E. DELAHAYE

Translator

Mme A.M. DETURCHE

Translator

Mme M. GASCOU

Translator

M. E. LAUREIRO

Translator

M. A. PEÑARANDA

Translator

M. A. PITT

Translator

M. G. WHITING

Translator

