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**THE INTERNATIONAL TELEGRAPH AND TELEPHONE  
CONSULTATIVE COMMITTEE  
(C.C.I.T.T.)**

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# **IVth PLENARY ASSEMBLY**

**MAR DEL PLATA, 23 SEPTEMBER - 25 OCTOBER 1968**

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## **WHITE BOOK VOLUME I**

---

### **PART I**

**ORGANIZATION AND WORK  
OF THE FOURTH PLENARY ASSEMBLY**

### **PART II**

**RESOLUTIONS AND OPINIONS.  
ISSUED BY THE PLENARY ASSEMBLIES**

### **PART III**

**STUDY GROUPS,  
JOINT WORKING PARTIES AND  
AUTONOMOUS SPECIALIZED  
WORKING PARTIES  
ALLOCATION OF QUESTIONS**

### **PART IV**

**SERIES A RECOMMENDATIONS  
(Organization of the work of the C.C.I.T.T.)  
SERIES B RECOMMENDATIONS  
(Means of expression)  
QUESTIONS ALLOCATED  
TO STUDY GROUP VII**

**Published by  
THE INTERNATIONAL TELECOMMUNICATION UNION**

**1969**



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**CONTENTS OF THE C.C.I.T.T. BOOKS**  
**STILL APPLICABLE AFTER THE FOURTH PLENARY ASSEMBLY (1968)**

**WHITE BOOK**

- Volume I** — Minutes and reports of the IVth Plenary Assembly of the C.C.I.T.T.  
— Resolutions and opinions issued by the C.C.I.T.T.  
— General table of Study Groups and Working Parties for the period 1968–1972.  
— Summary table of questions under study in the period 1968–1972.  
— Recommendations (Series A) on the organization of the work of the C.C.I.T.T.  
— Recommendations (Series B) and Questions (Study Group VII) relating to means of expression.
- Volume II A** — Recommendations (Series D) and Questions (Study Group III) relating to the lease of circuits.  
— Recommendations (Series E) and Questions (Study Group II) relating to telephone operation and tariffs.
- Volume II B** — Recommendations (Series F) and Questions (Study Group I) relating to telegraph operation and tariffs.
- Volume III** — Recommendations (Series G, H and J) and Questions (Study Groups XV, XVI, C and D) relating to line transmission.
- Volume IV** — Recommendations (Series M and N) and Questions (Study Group IV) relating to the maintenance of international lines, circuits and chains of circuits.
- Volume V** — Recommendations (Series P) and Questions (Study Group XII) relating to telephone transmission quality, local networks, telephone sets equipment.
- Volume VI** — Recommendations (Series Q) and Questions (Study Groups XI and XIII) relating to telephone signalling and switching.
- Volume VII** — Recommendations (Series R, S, T, U) and Questions (Study Groups VIII, IX, X, XIV) relating to telegraph technique.
- Volume VIII** — Recommendations (Series V) and Questions (Special Study Group A) relating to data transmission.
- Volume IX** — Recommendations (Series K) and Questions (Study Group V) relating to protection against interference.  
— Recommendations (Series L) and Questions (Study Group VI) relating to the protection of cable sheaths and poles.

Each volume contains, where appropriate, extracts from contributions received on the subject of the volume concerned whenever their interest is such as to warrant publication.

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## **PART I**

### **ORGANIZATION AND WORK OF THE FOURTH PLENARY ASSEMBLY**

**Organization of the Fourth Plenary Assembly**

**List of participants**

**List of documents**

**Minutes of the plenary meetings**

**Reports of the Committees of the Plenary Assembly**

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# **ORGANIZATION OF THE FOURTH PLENARY ASSEMBLY OF THE INTERNATIONAL TELEGRAPH AND TELEPHONE CONSULTATIVE COMMITTEE**

(MAR DEL PLATA, SEPTEMBER-OCTOBER 1968)

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The Fourth Plenary Assembly of the International Telegraph and Telephone Consultative Committee met in Mar del Plata (Argentine Republic) from Monday 23 September to Friday 25 October 1968. The meetings were held at GRAN HOTEL PROVINCIAL.

The conference was divided into two periods:

- a) Period of meetings of Study Groups from 23 September to 11 October;
- b) Period of plenary meetings from 14 to 25 October.

Seventy-two administrations of Members of the Union, 25 recognized private operating agencies and 15 international organizations were represented in the Assembly, while 36 scientific or industrial organizations were represented at the Study Group meetings.

Six hundred and two delegates, representatives, experts and observers attended the meetings in Mar del Plata. Three hundred and nine of them attended the meetings of the Plenary Assembly.

## **Meetings of Study Groups**

The following Study Groups and Special Autonomous Working Parties met in Mar del Plata on the occasion of the IVth Plenary Assembly:

Study Group	Title	Chairman	Date of the meeting
I	Telegraph operation and tariffs (Telex service included).	Mr. Vargues (France)	2-8 October
II	Telephone operation and tariffs.	Mr. Rutschi (Switzerland)	25-26 September
III	General tariff principles. Lease of telecommunication circuits.	Mr. Eriksen (Denmark)	27 September
IV	Maintenance of the general telecommunication network.	Mr. Valloton (Switzerland)	23-27 September
V	Protection against dangers and disturbances of electromagnetic origin.	Mr. Riedel (F.R. of Germany)	4-9 October
VI	Protection and specifications of cable sheaths and poles.	Mr. Halstrøm (Denmark)	1-4 October
VIII	Alphabetic telegraph apparatus and local connecting lines.	Mr. Baggenstos (Switzerland)	11 October
IX	Quality of telegraph transmission; specification of channel equipments and directives for maintenance of telegraph channels.	Mr. Höld (Netherlands)	30 Sept.-1 Oct.
X	Telegraph switching.	Mr. Jansen (Netherlands)	7-10 October
XI	Telephone signalling and switching.	Mr. W. J. E. Tobin (United Kingdom)	30 Sept.-4 Oct.
XII	Telephone transmission performance and local telephone networks.	Mr. F. Andrews (U.S.A.)	25-27 September
XIII	Semi-automatic and automatic telephone networks.	Mr. Lambiotte (Belgium)	7-10 October
XIV	Facsimile telegraph transmission and apparatus.	Mr. Bitter (F.R. of Germany)	26-27 September
XV	Transmission systems.	Mr. Job (France)	3-10 October
XVI	Telephone circuits.	Mr. Claeys (Belgium)	30 Sept.-3 Oct.
Sp.A	Data transmission (Special Study Group).	Mr. J. Rhodes (United Kingdom)	23-26 September
Sp.B	World-wide semi-automatic and automatic network (Special Study Group).	Mr. Laird (U.S.A.)	11 October
GAS 3	Comparative technical and economic studies of transmission systems.	Mr. Ben Abdellah (Morocco)	11 October
GAS 5	Economic conditions and development of telecommunications	Mr. Longequeue (France)	23-24 September

### Meetings of the Plenary Assembly

The Assembly, which was officially opened on 14 October, was presided over by Lieutenant-Colonel R. R. ALBARIÑO, Director General for Co-ordination in the office of the Secretary of State for Communications of the Argentine Republic.

MR. ALBARIÑO was assisted by five Vice-Chairmen, as follows:

MR. M. BEN ABDELLAH (Morocco);

MR. R. T. BLACK (United States);

MR. A. B. BJÜREL (Sweden);

MR. T. KASHIWAGI (Japan);

MR. A. POUKHALSKI (Union of Soviet Socialist Republics).

The Plenary Assembly set up the following four Committees:

	<i>Chairman</i>	<i>Vice-Chairman</i>
<i>Committee A</i> — Working methods and organization of Study Groups	MR. B. WILLIAMS (United Kingdom)	DR. Z. SZPIGLER (Poland)
<i>Committee B</i> — Programme of work for Study Groups	MR. R. SUEUR (France)	MR. S. MAMADOU ALIOU (Mali)
<i>Committee C</i> — Budget control	MR. O. H. MOHAMED (Pakistan)	MR. J. A. WILTGEN (Brazil)
<i>Committee D</i> — Technical co-operation	MR. I. GIRMAW (Ethiopia)	MR. G. E. DE SILVA ELLAWELA (Ceylon)

Eleven plenary meetings were held in addition to the inaugural meeting of the Assembly.

Committee A had four meetings for its work; Committee B also met four times, and Committees C and D met twice respectively.

**LIST OF PERSONS**  
**ATTENDING THE FOURTH PLENARY ASSEMBLY,**  
**including those attending Study Group meetings**

[with indication of the participation in the meetings of Study Groups, Special Autonomous Working Parties or the Plenary Assembly (PA)]

I. ADMINISTRATIONS

*Attending*

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*Delegates*

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MR. S. SATHAR	All SG and PA

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MR. C. KILLIAN	PA
Deputy head	

*Delegates*

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MR. L. L. C. COCCARO	Sp.A
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MR. V. COSTADONE	IV, V/VI, V
MR. F. H. COSTANZO	X/I, X, VIII
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MR. O. DALMASSO	I, X/I, PA

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Head of delegation

*Delegates*

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MR. F. MCGOVERN      Sp.A, XIV, IX, XI, X/I, X, VIII, PA

**Israel** (State of)

MR. J. COHEN      IV, VI, V, XV, GAS 3, PA  
Head of delegation

**Italy**

MR. M. FARIELLO      PA  
Head of delegation

MR. A. BIGI      I, VI, PA  
Deputy head

*Delegates*

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MR. D. GAGLIARDI      XVI, XV, GAS 3  
MR. G. ALBERTI      XI, XIII, Sp.B, XVI, XV  
MR. G. GRATTA      VI, V/VI, V  
MR. M. MACCHIONI      I, X/I, X, VIII  
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MR. C. RUDILOSIO      XV, GAS 3  
MR. G. TIMPERI      XI, XIII, Sp.B  
MR. G. VERLICCHI      II, III, XI, XIII, Sp.B, PA

*Attending***Japan**

MR. T. KASHIWAGI                      PA  
Head of delegation

*Delegates*

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MR. K. ENDO                      XV, GAS 3  
MR. M. KATSUTA                  Sp.A, XIV, IX, X, X/I, VIII, PA  
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MR. Y. OHASHI                  XV, GAS 3  
MR. S. OKAMURA                PA  
MR. Y. SAITO                    XI, XIII  
MR. T. SATO                    Sp.A, XIV  
MR. S. SUGITA                  XI, XIII  
MR. K. WAKABAYASHI          XI, XIII  
MR. R. YASHIRO                VI, V/VI, V

**Kenya**

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Head of delegation

**Kuwait (State of)**

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Head of delegation

*Delegate*

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**Lebanon**

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Head of delegation

MR. M. CHAZAL                    All SG and PA  
Deputy head

*Delegate*

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**Liberia (Republic of)**

MR. S. BUTLER                    PA  
Head of delegation

**Libya (Kingdom of)**

MR. K. ZARRUGH                  GAS 5, II, III, IV, XI, I, VI, XIII, Sp.B  
Head of delegation

MR. M. BANOUN                  GAS 5, III, XI, I, XIII, Sp.B, PA  
Deputy head

*Attending***Libya** (Kingdom of) (continued)*Delegates*

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MR. H. SHABBI	GAS 5, II, III, XI, IV, I, VI, XIII, Sp.B
MR. H. SULEIMAN	II, III, I

**Malaysia**

MR. BUYONG ABDULLAH Head of delegation	X, VIII, Sp.B, GAS 3, XIII, V, PA
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*Delegate*

MR. A. KOH AH SENG	X, VIII, XIII, V, Sp.B, GAS 3, PA
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**Malagasy Republic**

MR. P. RATOVONDRAHONA Head of delegation	II, III, I, PA
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**Mali** (Republic of)

MR. S. M. ALIOU Head of delegation	I, X/I, X, II, III, GAS 3, PA
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*Delegate*

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**Morocco** (Kingdom of)

MR. M. BEN ABDELLAH Head of delegation	GAS 3, PA
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**Monaco**

MR. C. SOLAMITO Head of delegation	PA
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**Nigeria** (Federal Republic of)

MR. A. BODEDE Head of delegation	PA
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*Delegate*

MR. A. OGBONAIYE	I, X/I, II, III, PA
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**Norway**

MR. P. OEVREGARD Head of delegation	PA
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*Delegates*

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MR. P. RABBÅS	Sp.A, II, III, I, Sp.B

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Head of delegation

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Head of delegation

*Delegate*

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MR. M. FERRERIRA FALCON                      PA  
TTE. CNEL. B. GUANES                      X/I, X, VIII, Sp.B, XV, XI, VI  
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MR. N. BIEZEN                      GAS 5, II, III, XIII, Sp.B  
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MR. A. BOLLE                      XII, XVI, XV, GAS 3  
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**Federal Republic of Germany**

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 MR. H. BITTER GAS 5, II, XIV, IX, I, X/I, PA  
 MR. R. DINGELDEY XII, XI, XIII, Sp.B, PA  
 MR. W. HOFMANN Sp.A, XIV  
 DR. R. KAISER PA  
 MR. J. KUPPER Sp.B, PA  
 DR. E. KUTSCHER II, I, XI, XIII, PA  
 MISS E. MALLET All SG and PA  
 MR. R. MEHNE All SG and PA  
 MR. H. MERZ XI, XIII, Sp.B, PA  
 MR. A. OHLMER Sp.A, III, I, X/I, X, VIII, PA  
 MR. O. REHEUSSER GAS 5, II, III, IX, I, X/I, X, VIII, PA  
 MR. H. RIEDEL VI, V/VI, V, PA  
 MR. G. SCHUTT IV, XVI, XV, GAS 3, PA  
 MR. H. VENHAUS IV, XVI, XV, GAS 3, PA

**Ukrainian Soviet Socialist Republic**

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 Head of delegation

**Roumania (Socialist Republic of)**

MR. G. AIRINEI PA  
 Head of delegation

*Delegates*

MR. I. UIDILA IV, XI, XIII, PA  
 MR. G. TRIFU II, III, XVI, I, XV, PA

*Attending*

## Delegates

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MR. J. BILLEN	XVI, XV, IV
MR. J. BIRCHALL	PA
MISS J. BLEACH	PA
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MR. A. GERMAN	IV
MR. H. GREENWOOD	XIII, PA
MR. A. HAWKINS	II, III, XIII, Sp.B, PA
MR. H. HAYES	VI, V/VI, V
MR. F. MARTIN	XI, XIII
MR. S. MUNDAY	GAS 5, XII, XVI, IV, XV, GAS 3, PA
MR. S. PARAMOR	Sp.A, I, X/I, III
MR. J. RHODES	Sp.A, XIV, IX, I, X/I, X, VIII, PA
MR. W. SIMPSON	XV, GAS 3
MR. W. TOBIN	XI, XIII, Sp.B, PA
MR. R. TRIDGELL	Sp.A, XIV, IX
MR. L. WHEELER	XV

MR. Z. HABİYAMBERE  
Head of delegation

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MR. L. DIA  
Head of delegation

MR. A. BENNETT  
Head of delegation

MR. H. BREYTENBACH	GAS 5, II, III, I, X/I, PA
MR. D. GREVE	Sp. A, XIV, IX, VI, X/I, X, VIII
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MR. H. ANDERSSON	XIII, Sp.B, PA
MR. T. LARSSON	PA
MR. H. NILSSON	Sp.A
MR. A. ÖSTERGREN	Sp.A, PA
MR. G. PETERSSON	XII, VI, V, V/VI
MR. K. PETERSSON	IX, XVI, XV
MR. A. RÅBERG	PA
MR. A. SUNDIN	PA

**Switzerland** (Confederation)

MR. F. LOCHER	PA
Head of delegation	
MR. R. RUTSCHI	GAS 5, II, III, XI, XIII, Sp.B, PA
Deputy head	

*Delegates*

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MR. G. FONTANELLAZ	Sp.A, XII, XVI, XV, GAS 3
MR. J. VALLOTON	IV, VI, V/VI, V, Sp.B, PA

**Tanzania** (United Republic of)

MR. W. CROMARTY	PA
Head of delegation	

**Czechoslovak Socialist Republic**

MR. B. KUBIN	Sp.A, XIV, IX, I, X/I, X, VIII, PA
Head of delegation	

*Delegate*

MR. J. VOJCÁK	XI, IV, XV, GAS 3, PA
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**Thailand**

MR. P. SURASIDHI	II, III, I, X/I, PA
Head of delegation	

*Delegates*

MR. S. LIMPISTHIEN	GAS 5, XIV, IX, X/I, X, Sp.B, PA
MR. A. SAOVAROS	II, III, I, X/I, PA

**Togolese Republic**

MR. A. AITHNARD	All SG and PA
Head of delegation	

## Turkey

GAS 5, II, III, IV, XVI, VI, XI, I, X/I, X, VIII, GAS 3, PA

Sp.A, IV, XII, IX, XI, XVI, XV, V, Sp.B, PA

GAS 5, II, III, XVI, I, X/I, Sp.B, PA

Sp.A, IV, XI, XVI, XIII, XV, PA

II, III, IX, I, X/I, X, VIII, PA

## XII, XVI, XV, PA

Sp.A, XIV, IX, I, X/I, X, VIII

XI, XIII, Sp.B

XII, XVI, XV, GAS 3, PA

Sp.A, XII, IV, XVI, XIII, XV, GAS 3, PA

IV, IX, I, X/I, X, VIII

II, III, I, X/I, X, PA

Sp. A, XIV, IX, I, X/I, X, VIII, PA

MRS. A. VOLKOVA

## PA

## PA

PA

II, III, XI, XIII, Sp.B, XII, XVI, IV, VI, V/VI, V, PA

GAS 5, II, III, IX, I, XIII, Sp.B, PA

GAS 5, II, III, IX, I, XIII, Sp.B, PA

Sp.A, XIV, IX, I, XI, XVI, X/I, X, XV, PA

## II. RECOGNIZED PRIVATE OPERATING AGENCIES

*Attending***I.T.T. (Argentina)**

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MR. M. BEER	PA
MR. J. DEL GIORGIO	I, X/I, X
MR. A. JEZIERSKI	I
MR. F. RISER	PA

**I.T.T. (Brazil)**

MR. J. LEMGRUBER	PA
MR. U. PARETO	PA

**Canadian Overseas Telecommunication Corporation (Canada)**

MR. J. BROWNLEE	Sp.A, XII, XVI, XV
MR. V. O'HAGAN	IV, XI, XIII, Sp.B
MR. M. PERRAS	IX, I, X/I, X, XV, Sp.B

**The Railway Association of Canada**

MR. L. SWAINE	I
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**The Telephone Association of Canada**

MR. A. MACKINNON	IV, XI, XIII
MR. N. NACHFOLGER	Sp.A, XII, XVI, XV, Sp.B
MR. J. TREMBLAY	Sp.A, II, XI, XIII, Sp.B, PA

**Entel (Chile)**

MR. E. CLAUDE	Sp.A, III
MR. G. SOTO PERALTA	GAS 5, XII, XI, XIII, Sp.B
MR. S. SUWALSKY-WAINCYMER	GAS 5, II, III
MR. B. WELLENUS	GAS 5, II, III

**Great Northern Telegraph Company (Denmark)**

MR. P. JORGENSEN	I, X/I, PA
MR. P. LAURSEN	PA
MR. E. RISBERG	IV, XVI, XV

**Compañía Dominicana de Teléfonos (Dominican Republic)**

MR. J. BEUKEMA	XVI, XV, GAS 3
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**Compañía Telefónica Nacional de España (Spain)**

MR. G. BLANCO HERNANDEZ	XI, XIII, Sp.B
MR. J. CARRETERO DE CASTRO	XV, Sp.B, GAS 3
MR. I. MADRID RODA	XII, IV, XVI, XV
MR. J. MANJARRES HURTADO	Sp.A, IX, X/I, X, VIII

*Attending***Compañía Telefónica Nacional de España** (Spain) (continued)

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MR. J. ROJO SERRANO	II, III, I, PA
MR. J. SANCHEZ-MONTERO	Sp.A, XII, XVI, XV, Sp.B, GAS 3
FILLOL	

**Aeronautical Radio, Inc.** (United States)

MR. A. K. SINGER	Sp.A, III, I, X/I, X, PA
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**American Telephone and Telegraph Co.** (United States)

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MR. C. BLOOM	XII, XVI, XV, GAS 3
MR. R. BOYD	XV
MR. CH. CLOS	II, III, XI, XIII, Sp.B
MR. C. DAHLBOM	XI, XIII, Sp.B
MR. R. HATCH	XII, XVI
MR. G. HELDER	XV
MR. R. JAMES	XV
MR. J. KARLIN	XIII
MR. R. KEEVERS	XI, XIII
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MR. R. MATLACK	Sp.A
MR. R. MORRIS	XIII, Sp.B, PA
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MR. D. WARNER	II, III
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**Comsat** (United States)

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MR. J. BARSTOW	Sp.A, XII, XVI, XI, XIII, Sp.B, PA
MR. J. CAMPANELLA	Sp.A, XII, XVI, XV
MR. C. JOHNSON	XI, XIII, Sp.B
MR. J. MARTIN	IV
MR. S. METZGER	XIII, XV, Sp.B, PA
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**General Telephone and Electronics Corporation** (United States)

MR. G. WALLENSTEIN	XI, XV, GAS 3, PA
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**I.T.T.** (United States)

MR. G. CANESTRARI	I
MR. W. EDGAR	PA
MR. J. GANCIE	PA

*Attending***I.T.T. (United States) (continued)**

MR. D. INTARTAGLIA	Sp.A
MR. J. LAWLOR	XV
MR. J. MCNITT	PA
MR. R. SCOTT	GAS 5, II, XII, XI, XIII, XV, Sp.B, PA
MR. M. WELLS	PA

**R.C.A. Communications, Inc. (United States)**

MR. J. HEPBURN	Sp.A
MR. M. PINCUS	III, I
MR. R. HAMMOND	I, X/I, X, VIII
MR. H. HAWKINS	PA

**Western Union International Inc. (United States)**

MR. E. BROD	IX, III, I
MR. R. EGAN	PA
MR. G. GERMANO	Sp.A
MR. T. GREENISH	PA
MR. C. FIORE	PA

**The Western Telegraph Co. Ltd. (Argentina)**

MR. R. THOMAE	GAS 5, IX, XIII, PA
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**Western Union Telegraph Company (Argentina)**

MR. J. MORRISON	PA
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**Western Union Telegraph Company (United States)**

MR. J. WEEMS, JR.	Sp.A, XIV, IX, I, X/I, X, VIII, PA
MR. G. MCGUIRE	PA

**Italcable (Argentina)**

MR. S. BONADONNA	PA
MR. S. PENAS	PA

**Italcable (Italy)**

MR. M. SIGNORILE	II, III, I, XIII
MR. W. SULIGOI	IX, X/I, X
MR. C. MARTINATO	PA

**R.A.I. (Italy)**

MR. C. TERZANI	XV, V/VI, PA
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*Attending***S.I.P. (Italy)**

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MR. P. RUMBOLDT	XII, IV, XVI, XV, GAS 3, PA

**Telespazio (Italy)**

MR. A. CARUSO	GAS 5, II, III, I, PA
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**Kokusai Denshin Denwa Company, Ltd. (Japan)**

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MR. M. ITANO	PA
MR. T. KITAHARA	II, III, I, X/I, PA
MR. T. KITAZUME	Sp.A, XIV, IX, X/I, X, VIII, PA
MR. K. KOBAYASHI	PA
MR. T. MUROI	II, III, I, X/I, PA
MR. S. SATOMI	II, III, I, X/I
MR. K. SHIBATA	Sp.A, IV, XI, XIII, Sp.B
MR. K. TAKEUCHI	IV, XI, XIII, Sp.B

**Nippon Telegraph and Telephone Public Corporation (Japan)**

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MR. K. HANDA	XI, XIII, Sp.B, PA
MR. T. HAYASHI	GAS 5, II, III, I, X/I, PA
MR. J. JINGUJI	GAS 5, XI, XIII, Sp.B
MR. H. KAIZUKA	XII, XVI, XV, GAS 3, PA
MR. K. KAWASAKI	Sp.B, PA
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MR. M. MIYAKE	Sp.B, PA
MR. M. ROKUNOHE	IV, VI, V/VI, V
MR. Y. TSUCHIYA	GAS 5, II, III
MR. M. YOKOTA	II, I, X/I

**Cable and Wireless Limited (United Kingdom)**

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MR. L. HARRIS	II, III, I, PA
MR. P. MCCUNNOER	PA
M. J. POWELL	XVI, XV, GAS 3
MR. W. RAE	IV, XI, XIII, Sp.B

**I.T.T. (Uruguay)**

MR. A. GUIMARAES	PA
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**Compagnie générale de télégraphie sans fil (France)**

MR. A. LE PEIGNEUX	PA
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## III. SCIENTIFIC OR INDUSTRIAL ORGANIZATIONS

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**Automatic Telephone and Electric Co.** (United Kingdom)

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MR. J. GALVIN                      XI, XIII, Sp.B

**Bell Telephone** (Belgium)

MR. J. A. BROUX                      XI

**Beloianisz H. Gy.** (Hungarian People's Republic)

MR. I. ERDEI                      Sp.A, IX, XII

MR. I. HORVATH                      XVI, XV

MR. S. LAJKO                      Sp.A, IX, XI, XII, XV

MR. P. MOLNAR                      XI, XIII

**Câbles de Lyon** (France)

MR. J. HOUSSIAUX                      XV, GAS 3

**C.I.T.** (France)

MR. R. HONO                      XV, GAS 3

**LM Ericsson** (Argentina)

MR. H. CECOTTI                      VI

MR. M. SERGO                      GAS 5, II, III

MR. A. NYBERG                      GAS 5, II, III

MR. J. SAAVEDRA                      XI

**Ericsson** (Sweden)

MR. T. ANDERSSON                      Sp.B

MR. A. ELLDIN                      XIII, Sp.B

MR. E. ERICSSON                      XI, XIII, Sp.B

MR. E. ERIKSEN                      XVI, XV

MR. L. KARLSTEDT                      Sp.A, IX, XII, XI, XVI

MR. G. MATTSSON                      VI, V/VI, V

MR. J. PYDDOKE                      IV, XVI, XV, GAS 3

MR. G. REDELIUS                      XI, XVI, XIII, Sp.B

MR. S. SÖLVEMARK                      GAS 5, XV

*Designation***Ericsson (Sweden) (continued)**

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MR. B. SVEDBERG	IV, XI
MR. J. UMIMSKY	GAS 5, II, III
MR. B. VOLLMER	IX, XII

**G.E.C. (Telecommunications) (Argentina)**

MR. B. MITCHELSTEIN	IV, XVI, XV
MR. R. PONTORIERO	XI, XIII

**G.E.C. (Telecommunications) (United Kingdom)**

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MR. H. TAYLOR	XI, XIII, Sp.B

**General Precision Systems (United States)**

MR. W. LYONS	Sp.A
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**Hasler (Switzerland)**

MR. W. CHRISTENER	XI, XIII
MR. T. STOLZ	XVI, XV

**I.B.M. (France)**

MR. M. HUMBERT	Sp.A, IX, X/I, X, XI, XIII, XVI, XV, IV
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**I.B.M. (Switzerland)**

MR. C. ANDREWS	Sp.A
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**International Computers Limited (United Kingdom)**

MR. J. HOULDSWORTH	Sp.A
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**I.T.T. (Argentina)**

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MR. E. VACAREZZA	II, XI

**I.T.T. (United States)**

MR. F. J. DE LOS RIOS	XIII, IV
MR. G. R. HOFFMANN	Sp.A, XI, XIII, Sp.B
MR. E. JEZIERSKI	XI, XIII, XVI
MR. W. T. JONES	XII, XVI, IV, XV, VIII
MR. E. BENHAM	I, X/I, X, VIII
MR. A. MELIS	I, X/I, X
MR. W. SANDVIG	GAS 5, II, III
MR. E. P. G. WRIGHT	



*Designation***I.T.T. (United Kingdom)**

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**I.T.T. (France)**

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**Milgo Electronic Corp. (United States)**

MR. E. BLECKNER Sp.A

MR. S. WHANG Sp.A

**Northern Electric (Canada)**

MR. K. B. SIMONSEN XII

MR. L. STIENSTRA XI, XIII, XV, Sp.B

MR. S. WHITAKER XII, XVI, IV, VI, V/VI, V

MR. P. WHITTALL XVI, XV, GAS 3

MR. G. WOOLNOUGH XV, VI

**N.T.B. (Switzerland)**

MR. J. HINRICHSEN Sp.A, GAS 5, XII, IV, XVI, XIII, XV, Sp.B, GAS 3

**Olivetti & Co. (Argentina)**

MR. A. ANDREOTTI Sp.A, IX, I, X, VIII

**Olivetti & Co. (Brazil)**

MR. G. AMARAL MARTINS X, VIII

**Olivetti & Co. (Italy)**

MR. C. CALONNELLO VIII

MR. L. VICARIO VIII

MR. L. BOCCA VIII

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## LIST OF DOCUMENTS OF THE FOURTH PLENARY ASSEMBLY

AP IV No.	Title
1	Report on C.C.I.T.T. activities between the IIIrd and IVth Plenary Assemblies
2	Publication of the new <i>White Book</i>
3	Report on the C.C.I.T.T. Secretariat
4	Report on Technical Assistance
5	Report on the work of the Plan Committees during the 3rd C.C.I.T.T. study period (July 1964–August 1968)
6	Programme of meetings and invitations for meetings outside Geneva
7	Report on C.C.I.T.T. working methods and the responsibilities of the study groups
8	Participation of recognized private operating agencies, international organizations and scientific or industrial organizations in the work of the C.C.I.T.T.
9	Election of the Director of the C.C.I.T.T.
10	Report to the IVth Plenary Assembly on the estimate of the financial needs of the C.C.I.T.T.
11	Draft texts for Section 1 of Part 1, Volume III (and Volume V) of the <i>White Book</i>
12	List of telex destination codes
13	List of country codes for the international semi-automatic or automatic telephone service
14	Preliminary report by Study Group IX (Telegraph transmission)
15	Preliminary report by Study Group XII to the Plenary Assembly
16	Preliminary report by Study Group XVI to the Plenary Assembly
17	Preliminary report on synchronous telegraphy
18	Preliminary report of Study Group VIII (Telegraph apparatus and local connection lines)
19	Preliminary report on the work of Study Group I (Telegraph operation and tariffs)



AP IV No.	Title
20	Preliminary report of Study Group XIV (Facsimile telegraph transmission and equipment)
21	Report to Study Group IV by its Working Party IV/5
22	Preliminary report to the IVth C.C.I.T.T. Plenary Assembly by Study Group V
23	Quality and reliability of leased circuits for aeronautical purposes
24	Preliminary report to the IVth C.C.I.T.T. Plenary Assembly on the work of Study Group VI (period 1964/1968)—(see also document AP IV/38)
25	Draft of Chapters I to IV of a handbook on <i>The protection of telecommunication lines and equipment against lightning discharges</i>
26	Report to the Plenary Assembly (GAS 1)
27	Simplification of the Telegraph Regulations (Montreux Resolution No. 36)
28	Preliminary report of Study Group I on the revision of Chapter XXV (Photo-telegraph service) of Telegraph Regulations
29	Final report to the IVth Plenary Assembly (This report is also the report on the meeting of Study Group VII held in Geneva from 18 to 22 March 1968.)
30	Use of a single transmission unit for international purposes
31	Preliminary report on the work of Study Group X (Telegraph switching)
32	Preliminary report of Study Group XI
33	Preliminary report on the work of Special Study Group A (Data transmission)
34 and corrig.	Future data and message transmission networks
35	Preliminary report of Alphabet No. 5
36	Preliminary report to the IVth C.C.I.T.T. Plenary Assembly by Study Group IV (Transmission maintenance of international lines, circuits and chains of circuits)
37	Drafts of new and amended Recommendations for Volume IV
38	Proposed draft of a handbook on the <i>Protection of telecommunication lines by gas pressurization</i>
39 and corrig.	Preliminary report to the Plenary Assembly on the work of Special Autonomous Working Party 5
40	Proposal to publish a handbook on <i>Earthing</i>

AP IV No.	Title
41	Text resulting from the work of GAS 1 during the 1964–1968 period which can be used as a basis for work during 1968–1972 concerning the drafting of a manual on <i>Earthing</i> (see document AP IV/40, GAS 1, No. 57)
42	Amended texts to be included in Volume IX of the <i>White Book</i> (annexes to Question 1/VI)
43	Proposed amendments and additions to Chapter V of the Recommendations (see also document AP IV/24-COM VI-No. 55)
44	New draft Recommendation V.24 on modem interface (supplement to document AP IV/33)
45	Draft Recommendation for 48 kilobits/sec data transmission (supplement to document AP IV/33)
46	Use of a 1900-Hz tone for signalling on sound-programme circuits
47	Report to Study Group XV
48	Report by GAS 4 to the IVth Plenary Assembly of the C.C.I.T.T.
49	Preliminary report by Study Group XIII to the IVth Plenary Assembly
50	Signalling codes and methods for use in C.C.I.T.T. automatic transmission measuring and signalling testing equipment
51	Final report of Joint Special Study Group C to the IVth Plenary Assembly
52	Specifications for signalling system C.C.I.T.T. No. 5bis
53	Preliminary report of the Plenary Assembly on the work of Special Study Group B
54	Recommendations of series D submitted to the Plenary Assembly by Study Group III after its two meetings (December 1966 and June 1968)
55	Draft new Recommendation E.50—New system for the establishment of international accounts
56	Instructions for the international telephone service
57	Draft telephone regulations
58	Intercontinental television transmissions
59	Specifications for signalling system C.C.I.T.T. No. 6
60	Co-ordination into one study group for all questions of maintenance and supervision concerning telephone connections subscriber to subscriber (continuation of document AP IV/7)

AP IV No.	Title
61	Preliminary report to the Plenary Assembly on the work of Special Autonomous Working Party No. 2
62	Preliminary report by GAS 3 to the Plenary Assembly
63	New questions proposed for 1968–1972 study period (Annex 6 to COM XV-No. 176)
64	Preliminary report by Study Group XV
65	Systems on symmetric pairs and on coaxial pairs
66	Automatic measuring equipment for sound programme circuits
67	C.C.I.T.T. co-operation in revising the telecommunication chapters of the international electrotechnical vocabulary of the International Electrotechnical Commission
68	Collaboration with the I.E.C. on the standardization of cables and wires
69	Noise measurements by automatic measuring equipment
70	Further comments on organization of C.C.I.T.T. study groups
71 and corrig.	Proposals put forward with the purpose of increasing the C.C.I.T.T. work efficiency
72	Organization of study groups. Maintenance and service quality problems
73	Final report on revision of Recommendation V.24 for interchange circuits between data terminal equipment and data communication equipment
74	Final report on point Z “use of wideband circuits” of Question 1/A (Data transmission) (This document replaces document AP IV/45.)
75	Collaboration between I.S.O. and C.C.I.T.T.
76	New questions proposed for study during the period 1968–1972
77	New (or modified) Recommendations proposed (Study Group XIII)
78	Report by Study Group II to the Plenary Assembly
79	Proposed amendments to Volume V, Part I, section 1 (Supplement to the final report of Study Group XII to the Plenary Assembly)
80	Final report (Special Study Group A)
81 and corrig.	Proposal for new question: activity of data service centres
82	Final report to the IVth Plenary Assembly (Study Group IV)
83	Final report on the work of Study Group XIV (see preliminary report AP IV/20)
84	Final report by Study Group XII to the Plenary Assembly (see also documents AP IV/15 and AP IV/79)
85 and addend.	Final report to the Plenary Assembly (Special Autonomous Working Party 5)

AP IV No.	Title
86	Final report of Study Group I (Telegraph operation and tariffs)
87	Report of the Plenary Assembly on questions common to telegraph operation and switching
88	Election of the Director of the C.C.I.T.T.
89	Final report by Study Group XVI to the Plenary Assembly
90	Final report (Study Group IX)
91	Report of Study Group III to the Plenary Assembly and report on its meeting at Mar del Plata on 27 September
92 and corrig.	Final report to the Plenary Assembly (Study Group VI)
93	Proposed new question (for Study Group XVI)
94	C.C.I.T.T. co-operation in revising the telecommunication chapters of the international electrotechnical vocabulary of the International Electrotechnical Commission
95 and corrig.	Final report of Study Group XI to the Plenary Assembly
96	Final report to the Plenary Assembly (Study Group V)
97	Establishment of a special PCM Study Group
98	Final report (Study Group VIII—Telegraph apparatus)
99	Final report to the Plenary Assembly (Special Autonomous Working Party No. 3) (entirely supersedes document AP IV/64-GAS 3-No. 36)
100	Group and supergroup pilots (to be examined together with the report by Special Study Group A and document AP IV/74)
101	Draft new questions on reliability (to be examined together with the final report of Joint Special Study Group C—document AP IV/51)
102	Final report to the Plenary Assembly (Study Group X)
103	Final report to the Plenary Assembly on the work of Special Study Group B
104	Draft specification of the automatic transmission measuring and signalling testing equipment No. 2 (Study Groups IV and XI)
105	Minutes of the first plenary meeting
106	Final report of Study Group XV
107	Second plenary meeting
108	Standardization of the (Berne) MFC signalling system
109	Statement by the delegations of the Bielorussian Soviet Socialist Republic, the People's Republic of Bulgaria, the Hungarian People's Republic, the Mongolian People's Republic, the People's Republic of Poland, the Ukrainian Soviet Socialist Republic and the Union of Soviet Socialist Republics
110	Influence of national tariff structures on the development of telecommunications

AP IV No.	Title
111	Problems relating to the organization of work of C.C.I.T.T. and C.C.I.R. study groups concerning space telecommunications
112	Statement by the delegation of the Republic of China to the IVth Plenary Assembly of C.C.I.T.T., Mar del Plata, 1968
113	Statement by the delegation of the United States of America
114	Final report of the Study Group to the Plenary Assembly
115	Report on working methods and organization of study groups
116	Minutes of the third plenary meeting
117	Minutes of the fourth plenary meeting
118	Separation of final study group meetings from the Plenary Assembly
119	Report of Committee D—Questions concerning new and developing countries
120	Meeting of the Plan Committee for Latin America
121	Meeting of the Plan Committee for Latin America
122	Statement by the delegation of the Socialist Republic of Roumania
123	Proposal concerning terms and definitions for telecommunications
124	Proposals submitted to the Plenary Assembly by the "Books" WP
125	Minutes of the sixth plenary meeting
126	Annex to document AP IV/30 (Transmission units)
127	New text for the resolution on provisional recommendations (page 10 revised of document AP IV/115)
128	Report by Committee B to the Plenary Assembly
129	Minutes of the fifth plenary meeting
130	Next meeting of Africa Plan Committee
131	Statement by the delegations of Cameroon, the Central African Republic, Congo (Brazzaville), Ethiopia, Gabon, Ghana, Kenya, Liberia, Mali, the Malagasy Republic, Nigeria, Ruanda, Senegal, Tanzania and Togo
132	Final report of Committee C to the Plenary Assembly
133	Statement by the delegation of the Republic of South Africa
134	Minutes of the seventh plenary meeting
135	Minutes of the eighth plenary meeting
136	Minutes of the ninth plenary meeting
137	Minutes of the tenth plenary meeting
138	Minutes of the eleventh plenary meeting

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# MINUTES OF THE PLENARY MEETINGS

## THE INAUGURAL MEETING

Monday 14 October 1968, at 11.30 a.m.

*Chairman:* Mr. R. R. ALBARIÑO (Argentine Republic)

The inaugural meeting was honoured by the presence of:

Mr. Guillermo A. BORDA, Minister for Internal Affairs;  
General Julio Argentino TEGLIA, Secretary of State for Communications;  
Colonel Oscar Rodolfo DIETRICH, President of the Empresa Nacional de Telecomunicaciones;  
Captain Carlos Alberto I. BARRA (Navy), President of the National Council of Radio-broadcasting and Television;  
Dr. Hugo Pérez ROJAS, Municipal Administrator *ad interim* of Mar del Plata.

Speeches were made by:

Mr. M. MILI, Secretary-General of the Union;  
Mr. J. ROUVIÈRE, Director of the C.C.I.T.T.;  
Lieutenant-Colonel R. R. ALBARIÑO, Head of the Argentine delegation, Chairman of the Assembly;  
General TAGLIA, Secretary of State for Communications;  
Dr. G. A. BORDA, Minister for Internal Affairs.

### ADDRESS DELIVERED BY MR. M. MILI, SECRETARY-GENERAL OF THE UNION

"Mr. Minister, Ladies and Gentlemen,

"In 1952 the Plenipotentiary Conference was held in Buenos Aires; for the second time in fifteen years the Argentine Republic has thus offered its generous hospitality to an important I.T.U. Conference. But this is the first time that a Plenary Assembly of a Consultative Committee is being held in your beautiful country, Mr. Minister.

"It is also the first time that I personally have had the privilege of coming to South America and it is a great honour for me today to attend the official opening meeting of the C.C.I.T.T. IVth Plenary Assembly.

"Argentina has been a Member of the I.T.U. since 1 January 1889 and has always shown a lively interest in the work of the Union. For some twenty years, this interest has taken the form of dynamic action in the various permanent organs: thus, Argentina provided the I.T.U. with a Secretary-General in the person of the late Dr. Marco Aurelio Andrada, whose memory is still alive amongst us all.

"Dr. Andrada was elected in 1953 by the I.T.U. Administrative Council at a time when the transformation of our organization into a specialized agency of the United Nations and its transfer from Berne to Geneva called for great competence, devotion and tact on the part of the Secretary-General.

"Dr. Andrada in no way lacked competence and tact; he was an eminent jurist gifted with exceptional subtlety of understanding, not to speak of his vast general culture.

"His serious face, full of intelligence, and his eyes that could suddenly light up made a very strong impression on everyone who met him.

"His devotion to the I.T.U. was boundless; I shall merely remind you that Dr. Andrada died on active service in June 1958, after four years' hard work.

"Argentina has been a Member of the Administrative Council from its establishment in 1947 to the present day and provided the Council with a Chairman in 1962.

"Finally, at the regional level, Argentina is extremely active in the effort to bring about the Inter-American Telecommunication Network as rapidly as possible. I am sure that this activity, conducted as it is with intelligence and in perfect harmony with the other countries of Latin America, will mark the beginning of a new era in the history of the development of the Inter-American Telecommunication Network and, consequently, of the economic and social development of this wonderful continent.

"What I wish to convey to you, Mr. Minister, is how glad I am to be here today and how honoured and moved I feel on this occasion.

"My emotion is particularly great because we are inaugurating a Plenary Assembly of the C.C.I.T.T. I have had the privilege of participating in the work of the three previous Assemblies, as the head of the delegation of a small country which believes in the necessity and efficacy of international agencies, especially where the I.T.U. is concerned. I have therefore been able to witness the harmonious development of the C.C.I.T.T. over the past twelve years. My participation in the work of several Study Groups has been most valuable to me and has enabled me to make the acquaintance of such eminent persons as those who are met here in this distinguished Assembly.

"It is, therefore, a great pleasure for me to express my appreciation of and gratitude to all those who, during these meetings, have helped me to supplement or improve my technical knowledge in spheres which have fascinated me and continue to fascinate me.

"I have often had occasion to state that the I.T.U. is, first and foremost, the C.C.I.s. The responsibilities which I have borne for eighteen months have only confirmed this conviction, for the I.T.U. is undeniably above all a technical organization, and the entire technique of telecommunications is dealt with in the Study Groups of the two C.C.I.s.

"But technology is developing rapidly, and the range of the I.T.U. is more impressive than ever. Over the past dozen years, the Union's responsibilities have become overwhelming, not only because of the dazzling advances in technique and the spectacular inauguration of the space age, but also because of the entry of a large number of new and developing countries into the international arena.

"Thanks to the strong personality of Mr. Rouvière, this change has taken place harmoniously and smoothly in the C.C.I.T.T. All those who, like myself, have been closely connected with the work of this organ have been able to assess all the progress made at each Plenary Assembly.

"A number of innovations have been made in many fields. Appropriate studies have been undertaken in such matters as data transmission and satellite communication. Thanks to the clear-minded foresight of its Director, the C.C.I.T.T. has always been able to take the necessary measures at the proper time and with the requisite decisiveness.

"Mr. Rouvière has succeeded in rapidly transforming the C.C.I.T.T. from a quasi-European organ into a worldwide body, benefiting all the Members of the Union. We cannot, therefore, dissociate the development of the C.C.I.T.T. from the personality of its Director, and I should like to take this opportunity to convey to Mr. Rouvière all my esteem and admiration for the work he has performed so generously and so skilfully. I think that in doing so I am genuinely expressing the feelings of all the Members of the Union, and especially those of all the research-workers and technicians who take such an active and effective part in the work of the C.C.I.T.T.

"This work of renewal and adaptation, carried out by the common effort of all concerned, has various aspects, and I should like to remind you of their most characteristic features.

"First of all, I should like to mention the intercontinental automatic service and all its implications, which are the logical consequence of the completion of the submarine telephone cable. It will be remembered that it was in 1956, the year when the C.C.I.T.T. was established as the result of the amalgamation of the C.C.I.F. and the C.C.I.T., that the first transatlantic telephone cable with submerged repeaters was brought into service.

"This innovation marked the beginning of a new period in the history of telecommunications, for the networks established in the various continents were thenceforth linked more and more closely together, thus leading technicians quite naturally to create favourable conditions for an entirely automatic intercontinental telephone service. For instance, the No. 6 signalling system is a result of this useful development.



"The C.C.I.T.T. also plays an important part in space communications, and this is because it defined the goals to be reached accurately and rapidly. Accordingly, to bring about the integration of satellites in the general telecommunication network, the C.C.I.T.T. has made some important recommendations, especially on permissible propagation time in a telephone call, and has studied the consequences of this at the level of international routing. The C.C.I.T.T. has also found a place for satellites in intercontinental traffic, the probable volume of which it has estimated for the next ten years.

"But we attach particular importance to one aspect—technical co-operation with new and developing countries. We are quite aware that this activity must continue to be given our closest consideration and it would be very long and tedious to recall to you now the highly varied forms that can be taken on at present by this assistance, ranging from the organization of fellowships to co-operation in the installation of earth stations.

"Of course, the C.C.I.T.T. is playing a leading part in this field and it must be admitted that the collection of texts which will be adopted by your Plenary Assembly will be a precious guide and an invaluable source of information for the new or developing countries.

"I should also like to stress the activities of the specialized working groups, which have already borne fruit, inasmuch as GAS 1 has published the two volumes of its manual on national telephone networks for the automatic service and the manuals on economic questions pertaining to telecommunications have just come out.

"The 1964 Plenary Assembly decided to extend this experiment and set up other specialized autonomous groups, known as GAS. Although it is not for me to go into details of the work of these groups, I should not like to overlook the work of two of them, the subject of which is very wide and shows the determination of the C.C.I.T.T. not to separate technical necessities from economic reality. The first of these is GAS 3 which is making an economic and technical comparison of the various systems of transmission over metallic lines or by radio channels.

"The manual being prepared will certainly be a precious fount of information for those who have to choose the most suitable system for their requirements and for the special conditions obtaining in their countries. To make this study more complete, the Regional Plan Committee for Africa proposes to your Plenary Assembly that GAS 3 should also consider comparison of satellite systems with other systems.

"Likewise, GAS 5 is making general economic studies on the development of telecommunication, studies which are of such great importance for the developing countries. These countries simply must have the possibility of, for example, working out the percentage of national resources that can reasonably be devoted to telecommunication. We hope that the GAS 5 manual will give them all the elements they need to answer such questions.

"But the most direct action undertaken by the C.C.I.T.T. in favour of the new or developing countries is that which is attributed to the Regional Plan Committees whose success with all the Members of the Union is so noteworthy.

"I.T.U. planning of telecommunication networks, originally restricted to Europe and the Mediterranean basin, rapidly spread to all continents by the setting up of four regional committees and the World Plan Committee.

"This organized pattern, which intimately associates all the Members of the Union in the harmonious development of their telecommunication networks, has already produced the most happy results.

"To give even more effective aid to the new and developing countries, the I.T.U. intends to take a further step forward by making pre-investment studies on the basis of the plans drawn up by the regional committees. The United Nations Development Plan (UNDP) is naturally associated with such studies.

"For instance, in Latin America, we are acting in perfect collaboration with the Inter-American Telecommunication Commission (CITEL) and the Inter-American Development Plan (BID). Our co-ordinated action should lead the countries in this region to the achievement of the inter-American telecommunication network which is so much to be desired.

"In Africa, progress is rapid, thanks to the firm support of the Economic Commission for Africa (ECA) and the Organization for African Unity (OAU). We are certain that the African

countries understand the full interest of the project actually submitted by the I.T.U. to UNDP and we think that their great majority will back it up with enthusiasm.

"The interest taken by the I.T.U. in the continent of Asia is no less great and we are awaiting the approval of UNDP for a similar project for the development of the telecommunication network in this important region of the world. There again, our action is effectively backed up by the Economic Commission for Asia and the Far East (ECAFE).

"Incidentally, the I.T.U. makes no discrimination between the various transmission systems; at the request of the countries concerned, we are prepared to give them advice on the installation of their earth stations.

"This particular mention of earth stations stresses the full interest we are taking in space telecommunications, since the I.T.U. as a whole and, in particular, the Consultative Committees, are directly concerned in the entirely new situation caused by the use of artificial satellites.

"I already pointed out last year in Mexico City the responsibilities of our union and the essential part it should play in this field which is at the same time so vital and so complex.

"A great deal has happened since Mexico and the problems at issue have become clearer. In the first place, the Administrative Council, one of the main organs of the I.T.U., has discussed the matter at length at its 23rd session in a debate which had considerable repercussions at the national as well as the international level. In two historic resolutions, Resolution No. 632 and Resolution No. 637, the Council defined and vigorously underscored the role of the I.T.U. in space and decided in principle that a second space conference should be convened for late 1970 or early 1971.

"The C.C.I.R. is playing a particularly important role as regards the technical preparation of the Conference. An interim meeting of C.C.I.R. Study Group IV, which deals with space communication, has in fact just been held at Geneva. Many useful conclusions were arrived at at this meeting but it would be difficult to sum them up in a few words. One thing I should like to mention, however, is the setting up of a special international working party which will be responsible for undertaking a rapid study of the various factors affecting the efficient utilization of the orbit of geostationary satellites. The aim of this work will be to achieve the most effective and rational use of this orbit, generally called the parking orbit, which constitutes an asset of a very special kind that must be available to all.

"The C.C.I.T.T. is also concerned with the work of this second Space Conference and it is fortunate that the IVth Plenary Assembly is being held a few months before the next session of the Administrative Council. Perhaps you will wish to raise certain subjects of direct relevance to the conference. Any suggestion from you will be welcome since the four permanent organs of the I.T.U. form an inseparable unit and any contribution from any one of them can only strengthen the authority of the whole.

"An international event of significance in this connection was the Conference on the Peaceful Uses of Outer Space, which was held in Vienna under the auspices of the United Nations two months after the meeting of the Administrative Council I have just mentioned. The importance of this conference was evidenced by the number and the standing of scientists, lawyers and political personalities who took part in it.

"The general conclusions of the conference can be summed up in a number of points which I think deserve special emphasis.

"In the first place the conference provided all participants with an opportunity of reaffirming their view that outer space is common property to which no one has an exclusive right and from which everyone is free to derive maximum benefit. In this connection, Resolution No. 1721 (XVI) of the United Nations Assembly was repeatedly referred to. As a logical consequence of this basic viewpoint, it was unanimously agreed that the time has now come for efforts to be effectively co-ordinated at the international level.

"It goes without saying that the problems raised by a co-ordinated effort of this sort are extremely complex and varied since they touch on almost all aspects of human activity: telecommunication services, sound and T.V. broadcasting, the spread of literacy and education, meteorology, aerial and maritime radionavigation, and radioastronomy, to name but a few of the purposes for which satellites will be used.

"In order to achieve co-ordination along the desired lines, the Conference decided that it was logical to make use of existing organizations, and particularly the I.T.U., and to broaden their terms of reference where necessary.

"This successful reaffirmation of the role of the Union was I think mainly due to the directives of the Administrative Council and to the fact that the I.T.U. has always made it abundantly clear that it would not shirk its responsibilities in this field.

"It must be emphasized, however, that most of the delegates present and in particular the members of the United Nations Committee on Outer Space intend to keep a close watch on future developments in order to be able to take whatever action may become necessary. In other words, we shall be judged by what we do.

"It is therefore urgent that we proceed rapidly to compile our knowledge and our requirements and put some order into them. To that end telecommunication administrations—the natural link between the various national services and the I.T.U.—will have to throw open their doors to all present and future national requirements so that no service feels left out. On the other hand, it is essential that everybody should recognize the fact that the I.T.U. is the international organization responsible for ensuring the necessary co-ordination.

"In this connection I must emphasize the need for full information to be given to all the interested services in a given country. It was evident at the Vienna Conference that some of the leading delegates had not been informed, as they should have been, of what the I.T.U. stands for, its prerogatives and its work. This is a domestic problem for each country to solve, but which nevertheless demands a strict understanding of the fact that telecommunications are one big family embracing all the services. Industry will have to concern itself more and more with these problems, as did the first countries which ventured into space.

"I think that many telecommunication administrations could usefully do more in the way of providing information for the various national services responsible for space problems or general policy matters. The point could be made, for example, that, for scientific as well as operational reasons, telecommunications form a coherent whole which cannot be disrupted by the advent of a new technique.

"As you see, the need for more information presents a real problem at all levels and a good deal of imagination will be needed to devise adequate solutions.

"To make headway in this field, no information medium must be overlooked. And so it was that on 1 October the Secretary-General of the I.T.U., in company with the Minister of the Federal Republic of Germany, had the privilege, in Bonn, of opening the first exhibition devoted to the Union's activities, particularly in the sphere of international co-operation. We hope that this travelling exhibition, which will last nine months and is certain to be a big success, will inspire other countries to hold similar exhibitions.

"Another idea might be to have an annual telecommunications day in all the 135 countries Members of the Union. The seventeenth of May would seem to be an appropriate day, as it is the anniversary of the signing, in Paris, of the first Convention which established our Union in 1865. Its purpose would be to publicize the I.T.U., its role and its work. If administrations welcome this idea, I should be happy to receive their comments and suggestions.

"Needless to say, the Administrative Council will be studying all these problems at its ordinary session next May. Among other things it will have to finalize the agenda for the 2nd Space Conference. You will remember that all Administrations have already received a draft agenda for that conference. It is their duty now to give it careful attention and make any amendments which they consider necessary, for that conference will be a turning point in the history of our Union in that it will precede the next Plenipotentiary Conference by a few months. It will thus have the serious responsibility of definitively establishing the I.T.U. in its new role as the international co-ordinating organization for all activities related to space telecommunications. Its agenda must therefore embrace all those questions which call for thorough study. It is for this reason that we eagerly await the relevant comments and suggestions of administrations.

"With respect to the C.C.I.T.T., it is for this august Assembly to define its spheres of activity for the next four years. As in the past, I am sure that you will not be lacking in boldness and imagination in your determination to keep abreast of the times. In this way the C.C.I.T.T. will continue to play its full part in enhancing the prestige of the Union." *[Applause.]*

## ADDRESS BY MR. ROUVIÈRE, DIRECTOR OF THE C.C.I.T.T.

"Your Excellency, Ladies and Gentlemen:

"After the remarkable and most comprehensive address by the Secretary-General of the International Telecommunication Union, after the flattering remarks he was good enough to make about the C.C.I.T.T. and, to my great embarrassment, about its Director, I really wonder whether anything is left for me to say and whether I should not refrain from taking the floor. But in our federal type of Union, the C.C.I.T.T. has kept its identity and even its full technical autonomy, so I feel justified in saying a few words on its behalf. I assure you that I will be very brief, especially as this solemn inaugural meeting lays upon me certain obligations which I would not for the world evade.

"First of all, we owe an enormous debt of gratitude to the Government of the Argentine Republic for the incomparable hospitality offered to our Plenary Assembly. Three weeks in this magnificent seaside resort of Mar del Plata have already taught many delegates to appreciate the delicate attentions which have been showered upon them as well as all the facilities that have been provided to make their work as congenial as it is productive.

"Today, the kind interest shown by the Argentine Government is evident from the presence of very eminent persons in this meeting hall, which lends a special brilliance to our opening meeting. On behalf of all delegates and the officials of the I.T.U. I wish to extend respectful greetings—and to thank them for the great honour paid to us—to the Minister of the Interior, the Secretary of State for Communications, the President of the National Telecommunication Undertaking, the Mayor of this beautiful city of Mar del Plata and many other distinguished persons—you will excuse me if I am unable to mention them all.

"Nor must I forget those who have been and continue to be the actual artisans of our work and, first of all, Colonel Albariño, Head of the Argentine Delegation, who will preside over our debates with a distinction and an authority which I have already had many occasions to appreciate. I should like also to pay tribute to the Organizing Committee of the Plenary Assembly, particularly its Chairman, Mr. Heguilor Rocca, architect, and its Secretary-General, Mr. de Paola, for I have witnessed the wonders they have worked in preparing for this Assembly. Finally, I wish to express my gratitude to all the Argentine personnel in the Conference Secretariat, who are working with exemplary conscientiousness and devotion and on the most friendly terms with the staff from Geneva.

"We are grateful to our hosts, not only for having welcomed us so warmly in this country which henceforth will have a special place in our hearts, but also for having enabled a Consultative Committee of the I.T.U. for the first time to hold its Plenary Assembly in Latin America. As Mr. Mili pointed out, this is an event of cardinal importance. Those who tend to look on the bad side of things disapproved of the high cost inevitably entailed by holding a large meeting 12000 km from Union Headquarters, but I would point out that it is a profitable investment. The Latin American countries, to develop a continent with so much untapped wealth, must give a big boost to their telecommunication networks and, for this purpose, will have to maintain much closer relations with the I.T.U. than in the past. This collaboration, which has begun so well at Mar del Plata, is bound to be strengthened in the years to come to the greater good of Latin America, the I.T.U. and all its Member countries.

"I should like next to express my gratitude to the eminent specialists in telegraphy and telephony who have made the C.C.I.T.T. what it is today, twelve years after its inception, that is, an organ with a truly universal vocation, which is responsive to the most recent advances in technique and to the needs of the developing countries. It is to them that are due the compliments which Mr. Mili, too kindly, addressed to me. I am happy and proud that they were good enough to associate me with their work and show their trust in me. I am rewarded for my efforts whenever I feel that I have been able to facilitate their task.

"It is impossible, without getting lost in dry technical details, to cite the main achievements on which the C.C.I.T.T. can pride itself since it laid the basis of a world telecommunication network, a network which soon will be equipped for fully automatic operation, where satellite circuits will co-exist with transmission systems that are older but are nevertheless constantly improving. I shall

merely say that the results already achieved are the guarantee of future success and that the C.C.I.T.T. will pursue its brilliant career on the basis of the conclusions of its IVth Plenary Assembly. Perhaps its organization and methods of work will be improved for the purpose. In any case there will be some changes in its ranks, for we note with regret that some of its best servants have already left it or are preparing to leave shortly for various reasons. They will be honoured in the days ahead, but I should like this morning to pay them the tribute they so richly deserve.

"Thus telecommunication specialists, who are becoming steadily more numerous and more representative of the various regions of the world, will continue in the C.C.I.T.T. to devote themselves to their absorbing studies. In these sadly troubled times which our planet is experiencing, I sincerely hope not only that their efforts will bring technical progress but that they will also contribute to man's prosperity and, who knows, to bringing peoples closer together. If my wish is granted, the Argentine Republic, by ensuring the success of the IVth Plenary Assembly of the C.C.I.T.T., will have made a particularly valuable contribution to the accomplishment of this noble task." *[Applause.]*

ADDRESS BY COLONEL R. R. ALBARIÑO, CHAIRMAN OF THE  
FOURTH PLENARY ASSEMBLY OF THE C.C.I.T.T.

"Your Excellency, Ladies and Gentlemen,

"The lot has fallen to me to have the great honour of presiding over the proceedings of the IVth Plenary Assembly of the International Telegraph and Telephone Consultative Committee. This is indeed a very special mark of distinction for the Argentine Republic.

"We are all aware of the great responsibilities which this office implies, and in accepting it I promise to do everything possible to see that the aspirations of national administrations and the other organizations concerned with the work of the C.C.I.T.T. are faithfully reflected in our decisions. I am certain that in this task I can count on the invaluable collaboration and goodwill of all delegates and officials with whose presence we are honoured here.

"I wish to offer my special thanks to the Secretary-General of the I.T.U. and the Director of the C.C.I.T.T. for their appreciative remarks about the hospitality of our country, the standard of the organization of this Assembly and the part we played in it. Consciousness of our responsibilities, as I have said, encouraged us to strive for the greatest possible perfection.

"When the Argentine Administration extended its invitation to have the Assembly held in our country, it did so in the hope of welcoming the representatives of the Member countries and the various organizations which make up the large family of the International Telecommunication Union.

"We knew then what an enormous responsibility was involved in the organization and conduct of a meeting of this size. But we were quite sure that the understanding of participating delegations and the I.T.U. authorities would enable us to overcome whatever difficulties might arise.

"It is noteworthy that this is the second time that a Plenary Assembly of the C.C.I.T.T. meets outside Europe and the first time that it is held in America. You may rest assured that the event will be remembered in the history of telecommunications in Argentina.

"The Study Group meetings held during the last three weeks did a great amount of useful work and at the same time underlined the importance of personal contact between delegates who came from all over the globe to exchange their views in discussions which have been consistently constructive and productive.

"We now have before us the arduous tasks of a new Plenary Assembly of a C.C.I.T.T. that is as lively as ever and has extended its field of action to cover the entire world. We have a heavy agenda before us and a period of intense activity lies ahead. We shall be studying here important questions relating to all the problems which affect telecommunications, basing ourselves on the spectacular scientific and technical progress achieved in the last few years.



"The advance in telecommunication technique has been characterized by certain events of paramount importance, such as the development of automatic telephone operation, the rapid growth of telex circuits, the advent of the data transmission service and the introduction of satellite communications in the world network.

"Another item of primary importance, which was just mentioned by the Secretary-General of the I.T.U. and which will demand special attention by the Assembly, is that of technical assistance. The International Telecommunication Convention acknowledges the invaluable contribution made by the C.C.I.T.T. in this field and gives it an important role to play in view of the vital significance of this activity for the new or developing countries and for the expansion of the telecommunication services on a world-wide scale.

"There is no doubt that this Assembly will have to make far-reaching decisions on all these questions. I would repeat therefore that our work will be difficult and exacting and places a heavy responsibility upon us. But I am firmly convinced that, thanks to the long experience of those present, we shall, once more, obtain very positive results, which will be reflected in a series of standards and Recommendations that will foster mutual understanding and collaboration among administrations and will promote the development of telecommunications both nationally and at continental and intercontinental level.

"So let us set to work with good heart and in a spirit of close co-operation, bearing in mind our duty to strengthen the International Telecommunication Union and to make the C.C.I.T.T. as effective as possible.

"I am extremely gratified to stress here how many Latin-American countries are interested in C.C.I.T.T. activity and I fervently hope that this positive attitude will be still more evident in the future.

"I hope, Gentlemen, that this beautiful town of Mar del Plata, pride of the Argentine Republic, will prove a propitious setting for our work. Although I have already done so personally whenever I had the opportunity, I should like on this formal occasion to extend the most cordial welcome, on behalf of the Argentine Delegation and the members of my administration as well as personally, to all delegates, officials and participants and to express our hope that your stay here will be a happy one which you will remember in the years to come.

"As Chairman of the Assembly and Head of my country's Delegation, I shall do everything in my power to ensure that this is so, and I thank you in advance for the support that I am confident I shall receive from delegates and from the officials of the International Telecommunication Union.

"My warm thanks to you all." [*Applause.*]

#### ADDRESS BY GENERAL TEGLIA, SECRETARY OF STATE FOR COMMUNICATIONS IN THE ARGENTINE REPUBLIC

"Your Excellency, Mr. Chairman, Ladies and Gentlemen,

"On behalf of the Argentine Government and the Office of the Secretary of State for Communications, I should like to welcome our distinguished guests: officials, delegates, technicians, experts, observers and representatives of private companies, who have come to take part in the IVth Plenary Assembly of the International Telegraph and Telephone Consultative Committee. We are greatly honoured by your presence and we hope that your stay will be a pleasant one.

"Your very presence gives this solemn Assembly an international character of enormous significance. You have come from the most far-away countries and are meeting here to pool your technical knowledge and to prepare recommendations and standards for world-wide application which will enrich the history of telecommunications, shorten the distances between us and contribute to the progress, unity and wellbeing of nations.

"One of the cardinal objectives of the C.C.I.T.T. is thus being fulfilled. This organization, though only twelve years old, has benefited from the rich experience of its precursors, the International Telegraph Consultative Committee and the International Telephone Consultative Committee, and of the experience of the countries Members of the International Telecommunication Union, the recognized private operating agencies and the scientific and industrial organizations.

"Underlying all this there is a highly significant fact which it is our duty to point out. We are living in a time of constant flux, where technical development goes hand in hand with scientific progress and it is precisely here that man plays a fundamental role. The work you are doing is profoundly humanistic, not only for what it contributes to enriching the mind but also because it is moving towards a future full of hope.

"I wish to emphasize the praiseworthy contribution made by the Study Group members from all countries represented at this Assembly, who have worked intensely for three weeks, devoting their enthusiasm and the best of their knowledge to laying the foundations for a rational plan of telecommunication development.

"The large number of countries and delegates taking part in these meetings gives an idea of their universality and is eloquent testimony to the growing interest awakened throughout the world by the practical achievements of the C.C.I.T.T. and the growth of communications in general.

"The international agreements based on standards adopted by the combined wisdom of the technicians participating in these meetings find their expression in the dynamic advance of civilization, which makes it possible to centralize all these efforts on behalf of the community. The goal of these agreements is to ensure the future of mankind and the spiritual progress of nations by giving today's generation the tools with which to carve out a great destiny.

"Telecommunications play a dominant role in the world today. All mankind needs to communicate, to know itself, exchange ideas and all that relates to the culture and character of the different peoples. We know that in the fast-changing modern world it is the new countries, those which are still young and those which are developing, which have the greatest need of the technical co-operation provided by the C.C.I.T.T. which, as an international body, has a most important mission to fulfill and a heavy responsibility to discharge.

"In the era of the satellite—man's most daring achievement—the C.C.I.T.T. must act with the *tempo* demanded by the succession of the most extraordinary events, not only to preserve its tradition, but to keep pace with those events and with the problems to which a new rapidly-progressing technique constantly gives rise.

"The cardinal feature of this IVth Plenary Assembly of the International Telegraph and Telephone Consultative Committee is the fact that this organ, whose sphere of activity was originally confined to the European continent, now consists of 134 countries in all parts of the world. There is thus not only a fusion of races but a common language, a common outlook and a single objective—mutual exchange and constant technical improvement in order to further the practical achievements of mankind.

"The Argentine Republic is very proud to be the seat of this great international Assembly, which doubtless will produce conclusions with vast and unsuspected implications for the future and the basic principles of world-wide integration and concord.

"Gentlemen, I wish you all every success in the noble task which has been entrusted to you and I am confident that, thanks to your experience, you will achieve positive results which will be reflected in the steady progress of technology for the greater happiness and well-being of all peoples of the world." [Applause.]

ADDRESS BY DR. GUILLERMO BORDA, MINISTER OF THE INTERIOR  
OF THE ARGENTINE REPUBLIC

"Mr. Chairman, Ladies and Gentlemen,

"It is a great honour for me to take the floor on such an important occasion as the opening meeting of the IVth Plenary Assembly of the International Telegraph and Telephone Consultative Committee, which is attended by delegations from all over the world consisting of eminent experts and specialists who are responsible for studying the fundamental aspects of telecommunication technique.

"This fascinating field of communication has always aroused a vital interest; after all, it is words, signs, symbols and sound which enable individuals and nations to make contact and to understand each other. In our era, telecommunications have become one of the indispensable requirements of the community of nations.

"Modern progress has so perfected the methods and techniques utilized that all telecommunication structures have been radically changed and the different telegraph and telephone systems have been developed at an amazing pace.

"We may therefore say that the C.C.I.T.T. carries an extremely heavy responsibility, since it must not only safeguard past achievements but promote and propagate them throughout the world so that all countries, and especially the developing countries, may benefit from the most modern facilities and techniques and enjoy the advantages of telecommunications in all spheres of human activity—intellectual, cultural, social, political and economic.

"The evolution and progress of telecommunications have their place in human history; they have enabled us to arrive at satisfactory solutions for many common problems by facilitating the exchange of ideas and contributing effectively to co-operation between all countries.

"The study of the technical, operating and tariff questions in telegraphy and telephony, the framing of Recommendations on the establishment and improvement of telecommunications, both at national level—particularly where the new or developing countries are concerned—and on a regional and international scale, are the basic objectives of the C.C.I.T.T. It is for this reason that its function is so vital and that it is so important that it should work well.

"The Argentine Republic, which has the honour to act as host to the IVth Plenary Assembly of the C.C.I.T.T., wanted the Assembly to be held in Mar del Plata, which will become part of the satellite communication system set up by means of the earth station at Balcarce and thus symbolizes the start of a new era in which a daring technique will be wisely used in the interest of mankind as a whole.

"Meetings such as the IVth Plenary Assembly of the C.C.I.T.T. provide the opportunity for the exchange of information and experience and for the examination of methods and techniques; they also mark the steady, increasingly rapid progress made in telecommunications.

"Today man can transmit images and speech from any point on earth. In Argentina we shall soon be able to see and hear what is happening at any time in the most far-off countries. These new possibilities give ground for great hope for human progress, but at the same time they arouse some misgivings: they may be used, not for the general good, but to serve the interests of certain groups or of countries with great economic or technical power. The more technique develops, therefore, the greater the responsibility of those who control the telecommunication and other mass media; they must see to it that these media are not misused.

"Ladies and Gentlemen, the vast distances between us, the diversity of language and culture, sometimes make the possibility of universal understanding seem very remote. Telecommunications, however, have enabled us to overcome these obstacles and the principles required for international understanding are becoming more firmly established day by day.

"The more responsive we are to this message, the better we will realize the importance of the objectives set by the C.C.I.T.T. and the easier it will be to surmount the technical difficulties and solve the complex problems posed by telecommunications.

"This is the task you have to carry out at the IVth Plenary Assembly. We have no doubt that you will accomplish it with the sense of responsibility and the efficiency already shown by the delegations present. It will find expression in Recommendations on technical co-operation and in the programmes of work which we all intend to share so that they may be implemented with success.

"I have every faith in the success of your deliberations and would take this unique opportunity to extend my most sincere wishes for the happiness and prosperity of the peoples you represent."

[*Applause.*]



**FIRST PLENARY MEETING****Monday, 14 October 1968, at 4 p.m.***Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)*Subjects discussed:*

1. Appointment of the Vice-Chairmen of the Plenary Assembly.
2. Establishment of the Committees of the Assembly and election of their Chairmen and Vice-Chairmen.
3. Programme of work of the Plenary Assembly for the first week.
4. Question of votes by proxy.
5. Election of the Director (documents AP IV/9 and AP IV/88)

**1. Appointment of the Vice-Chairmen of the Plenary Assembly**

The proposals of the chiefs of the delegation for the appointment of the Vice-Chairmen of the Plenary Assembly were *approved* by acclamation; the five Vice-Chairmen elected are as follows:

Mr. M. BEN ABDELLAH (Morocco),  
 Mr. R. T. BLACK (United States),  
 Mr. A. B. BJÜREL (Sweden),  
 Mr. T. KASHIWAGI (Japan),  
 Mr. A. POUKHALSKI (Union of Soviet Socialist Republics).

**2. Establishment of the Committees of the Assembly and election of their Chairmen and Vice-Chairmen**

The Assembly *decided* to establish four Plenary Assembly Committees, in accordance with the proposals made by the chiefs of the delegations, and proceeded to elect their Chairmen and Vice-Chairmen:

	<i>Chairmen</i>	<i>Vice-Chairmen</i>
Committee A — Working methods and organization of Study Groups	Mr. B. WILLIAMS (United Kingdom)	Dr. Z. SZPIGLER (Poland)
Committee B — Programme of work for Study Groups	Mr. R. SUEUR (France)	Mr. S. MAMADOU ALIOU (Mali)
Committee C — Budget control	Mr. O. H. MOHAMED (Pakistan)	Mr. J. A. WILTGEN (Brazil)
Committee D — Technical co-operation	Mr. I. GIRMAW (Ethiopia)	Mr. G. E. DE SILVA ELLAWELA (Ceylon)

**3. Programme of work of the Plenary Assembly for the first week (*for memory*)**

#### 4. Votes by proxy

The CHAIRMAN recalled that the question of voting by proxy had been discussed at length at the meeting of heads of delegations. He asked the Director of the C.C.I.T.T. to sum up the situation.

The DIRECTOR OF THE C.C.I.T.T. said that in his opinion number 13 of the International Telecommunication Convention ("Each Member shall have one vote at all conferences of the Union, at meetings of the International Consultative Committee *in which* it participates...") meant that only those delegates who actually participated in the Plenary Assemblies of the Consultative Committees were entitled to vote in them. However, that was a purely personal interpretation; many delegates had expressed other views, the Secretary-General of the I.T.U. had said that it was for the Plenary Assembly itself to take a decision on the matter. Voting by proxy had been allowed at the Plenary Assembly of the C.C.I.R. in Oslo in 1966.

At the request of the Chairman, the SECRETARY-GENERAL of the I.T.U. repeated the statement he had made at the meeting of the heads of delegations, to the effect that it was for the delegates to decide whether a liberal or narrow interpretation should be given to number 13 of the Convention.

After an exchange of views, in which the delegates of the U.S.S.R., IRELAND, MALAYSIA and the UNITED KINGDOM took part, the Assembly *decided* that countries which had been entrusted with a proxy vote in due and proper form could vote at the present Plenary Assembly on behalf of the countries which had thus delegated their powers.

The SECRETARY-GENERAL of the I.T.U. suggested that the Charter Study Group which would be meeting in February 1969 should draw the attention of the forthcoming Plenipotentiary Conference to the difficulty of interpreting No. 13 of the Convention.

#### 5. Election of the Director of the C.C.I.T.T.

The delegate of ARGENTINA recalled that, according to document AP IV/88, there had been only one candidature for the post of Director of the C.C.I.T.T. He therefore proposed that Mr. Rouvière be elected Director of the C.C.I.T.T. by acclamation.

The SECRETARY-GENERAL of the I.T.U. drew attention to the fact that the Administrative Council of the I.T.U. had not allowed for such a possibility.

The delegate of ITALY seconded the proposal that the election be by acclamation.

The DIRECTOR OF THE C.C.I.T.T. drew the attention of delegates to the fact that, to be elected, a candidate must obtain a majority of the votes cast; abstentions, therefore, had to be taken into account.

The Assembly then decided to take a vote and elected as tellers the delegates of SWITZERLAND, TURKEY and URUGUAY.

After a brief recess the session was resumed at 5.45 p.m., the Director of the C.C.I.T.T. not being present.

Mr. BESSEYRE, Senior Counsellor, C.C.I.T.T. proceeded to hold a roll call (see appendix to these minutes).

The CHAIRMAN announced the result of the ballot: number of countries voting 73; 69 votes for Mr. Rouvière, and 4 abstentions. He was glad to inform Mr. Rouvière (who thereupon resumed his seat at the Assembly table) of his election as Director of the C.C.I.T.T. for the period until the close of its Vth Plenary Assembly.

The Secretary-General of the I.T.U., in his own name and on behalf of the I.T.U. Co-ordination Committee, congratulated Mr. Rouvière on his brilliant re-election. The

strong personality of Mr. Rouvière, his dynamism and efficiency had rendered most valuable service to the I.T.U. and the C.C.I.T.T. for the last twelve years. His presence on the Co-ordination Committee constituted a valuable element of continuity and stability for the younger or newer officials taking part in the work of that Committee, who thus benefited from the great wisdom and the long experience of the present Director of the C.C.I.T.T.

The Heads of the delegations of SAUDI ARABIA and PAKISTAN also congratulated Mr. Rouvière.

The Director of the C.C.I.T.T. said that he was deeply moved. He thanked the Chairman and the delegates for the trust and the friendship they had just shown him; his thanks went equally to those delegates who had abstained from voting considering, doubtless, that he had earned a rest. However, he would serve the I.T.U. in general, and the C.C.I.T.T. in particular, with all the strength at his command and would discharge the duties of his office until the Vth Plenary Assembly of the organ. By then he thought he would be entitled to enjoy a well-earned rest and would not seek re-election.

*The meeting rose at 6.40 p.m.*

## APPENDIX

### List of countries which voted

Saudi Arabia	Hungary
Argentine Republic	India
Australia	Indonesia
Austria	Iran
Belgium	Ireland
Bielorussia	Israel
Brazil	Italy
Bulgaria (through Hungary by proxy)	Japan
Cameroon	Jordan (through Kuwait by proxy)
Canada	Kenya
Central African Republic	Kuwait
Ceylon	Lebanon
China	Libya
Congo (Brazzaville)	Malaysia
Korea	Malagasy Republic
Denmark	Mali
Group of territories represented	Morocco
by the French Overseas Post and	Monaco (through France by proxy)
Telecommunication Agency	Mongolia (through Poland by proxy)
Spain	Nigeria
United States of America	Norway
Ethiopia	Uganda (through Tanzania by proxy)
Finland	Pakistan
France	Paraguay
Gabon Republic	Netherlands
Ghana	Philippines
Guyana	Poland

Portugal  
 Federal Republic of Germany  
 Ukrainian Soviet Socialist Republic  
 Roumania  
 United Kingdom  
 Rwanda (Republic of)  
 Senegal  
 South Africa (Republic of)  
 Sweden  
 Switzerland  
 Tanzania

Chad (through Central African Republic  
 by proxy)  
 Czechoslovakia  
 Territories of the United States of America  
 Thailand  
 Togolese Republic  
 Turkey  
 Union of Soviet Socialist Republics  
 Uruguay  
 Viet-Nam  
 Yugoslavia

## SECOND PLENARY MEETING

**Tuesday, 15 October 1968, at 9.30 a.m.**

*Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentina)

### *Subjects discussed*

- |   |  |
|---|--|
| 1. Tribute to delegates who have died since the IIIrd Plenary Assembly                        |  |
| 2. Expressions of appreciation to delegates who have retired since the IIIrd Plenary Assembly | <i>Document Nos.</i>                         |
| 3. Report of Study Group XII  | AP IV/11, 15, 79 and 84<br>(AP IV/53 and 68) |
| 4. Report of Study Group XVI  | AP IV/11, 16 and 89<br>(AP IV/79)            |
| 5. Report of Special Autonomous Working Party No. 2   | AP IV/61                                     |
| 6. Report of Special Autonomous Working Party No. 5   | AP IV/39, 85 and addendum                    |

### **1. Tribute to delegates who have died since the IIIrd Plenary Assembly**

The DIRECTOR OF THE C.C.I.T.T. first paid tribute to Dr. Sarwate, Secretary-General of the I.T.U. who died in 1967, and then read out the names of delegates to C.C.I.T.T. meetings who had died since the IIIrd Plenary Assembly:

Mr. T. A. Housley (Australia)  
 Mr. C. Debroux (Belgium)  
 Mr. C. J. Colombo (Canada)  
 Mr. Y. Y. Bang (China)  
 Mr. A. A. Hennings (United States of America, I.T.T. World Communications)  
 Mr. P. Chavasse (France)  
 Mr. Leguen (France)  
 Mr. Schneider (France)  
 Mr. H. Blindheim (Norway)  
 Mr. Sahtar Ayub (Pakistan)  
 Mr. R. Deutler (F. R. of Germany)  
 Mr. H. E. Wilcockson (United Kingdom)  
 Mr. R. M. Chamney (United Kingdom)  
 Captain H. Legge (United Kingdom)  
 Mr. V. Amarantov (U.S.S.R.)  
 Mr. V. Ermakov (U.S.S.R.)

The Assembly stood in silence for one minute in honour of their memory.

## 2. Expressions of appreciation to delegates who have retired since the IIIrd Plenary Assembly

The DIRECTOR OF THE C.C.I.T.T. read out the names of delegates who had retired since the IIIrd Plenary Assembly and wished them a long and happy retirement, on behalf of the Assembly:

Mr. W. A. E. Nielsen (Australia)  
Mr. L. A. Fincher (Australia)  
Mr. A. E. Shepherd (Australia—O.T.C.)  
Mr. R. R. Long (Australia—O.T.C.)  
Mr. N. Weninger (Austria)  
Mr. F. Henneberg (Austria)  
Mr. E. Adam (Austria)  
Mr. H. Schmid (Austria)  
Mr. F. Schmidl (Austria)  
Mr. L. Ros (Belgium)  
Mr. C. H. McGuire (Canada)  
Mr. W. S. A. Gunasekera (Ceylon)  
Mr. Car Anketetel (Ceylon)  
Mr. J. Garrido (Spain)  
Mr. J. M. Clara (Spain)  
Mr. E. del Riego (Spain)  
Mr. Ch. M. Mapes (United States of America, A.T. & T. Co.)  
Mr. W. E. Bloecker (United States of America, A.T. & T. Co.)  
Mr. R. I. Wilkinson (United States of America, A.T. & T. Co.)  
Mr. L. G. Chapin (United States of America, Western Union International)  
Mr. M. A. Woodward (United States of America, F.C.C.)  
Mr. G. Terras (France)  
Mr. A. Chovet (France)  
Mr. R. J. C. Roquet (France)  
Mr. Belus (France)  
Mr. L. Larsen (Norway)  
Mr. J. Ringstad (Norway)  
Mr. Al-Haj Adbul Hammid (Pakistan)  
Mr. H. Bornemann (F. R. of Germany)  
Mr. W. Grünefeldt (F. R. of Germany)  
Mr. D. A. Barron (United Kingdom)  
Mr. R. O. Carter (United Kingdom)  
Mr. R. H. Franklin (United Kingdom)  
Mr. E. F. H. Gould (United Kingdom)  
Mr. K. M. Herron (United Kingdom)  
Mr. R. N. Renton (United Kingdom)  
Mr. R. V. Cade (United Kingdom, Cable and Wireless)  
Mr. L. A. Wilkins (United Kingdom, Cable and Wireless)  
Mr. M. Van Hasselt (United Kingdom, Chile Tel. and I.T.T.)  
Mr. J. Kemp (United Kingdom, Chile Tel. and I.T.T.)  
Mr. E. P. G. Wright (United Kingdom, Chile Tel. and I.T.T.)  
Mr. H. Sterky (Sweden)  
Mr. S. Hultare (Sweden)  
Mr. N. Rönnblom (Sweden)  
Mr. Langenberger (Switzerland)  
Mr. Wettstein (Switzerland)  
Mr. Wehbi Basar (Turkey)

### 3. Report of Study Group XII (Telephone transmission quality)

In the absence of the Chairman, Mr. F. Kroutl (Czechoslovakia), and the Vice-Chairman, Mr. M. F. T. Andrews (United States of America), Mr. J. LALOU, C.C.I.T.T., Counsellor, presented an account of the work of Study Group XII during the period 1964–1968. The preliminary report of the Study Group is contained in documents AP IV/11 and 15 and the final report in documents AP IV/79 and 84.

There were no comments on the replies to the Questions entrusted to Study Group XII for study, or on the texts of new or amended Recommendations proposed.

As regards the proposed Supplements, the delegate of the U.S.S.R. raised a question of principle concerning Supplements 3, 4 and 7, which were summaries of articles that had appeared in specialized publications available to everybody and which would be out of date when the *White Book* was published. He saw no necessity for inserting them in the book and asked for them to be deleted.

Mr. Lalou, C.C.I.T.T. Counsellor, pointed out that the original texts should then be mentioned in the bibliography.

These two proposals were *adopted*.

The delegate of FRANCE proposed to extend that decision and delete all Supplements which summarize texts that had already been published; the basic documents should simply be mentioned in the relevant bibliographies. The proposal was *adopted*.

Before proceeding with the examination of questions proposed by Study Group XII for the next study period, the delegate of the U.S.S.R. thought it would be desirable to define the exact terms of reference of Committee B of the Plenary Assembly. In fact, if the Assembly were to take decisions on such questions, Committee B, an organ of the Assembly, could no longer discuss them; it was therefore important to know whether Committee B could give an opinion on the validity of Questions or whether it should merely decide on their allocation and relative priority.

After some discussion it was *decided* that the Plenary Assembly should give its opinion on the Questions proposed by each Study Group when its report was examined, and Committee B, which had very little time at its disposal, would simply decide on the allocation and relative priority.

The Plenary Assembly *approved* the final report of Study Group XII.

The CHAIRMAN congratulated and thanked all those who had taken part in the work of Study Group XII, including those who were not present.

### 4. Report of Study Group XVI (Telephone circuits)

Since Mr. Franklin (United Kingdom), who had been elected Chairman by the IIIrd Plenary Assembly, had since retired, Mr. CLAEYS (Belgium), Vice-Chairman, reviewed the work of Study Group XVI and presented its report to the Assembly.

He paid tribute to Mr. Franklin, and proposed to the Chairman of the Assembly that greetings be sent to the “father of the new transmission plan”.

The reports by Study Group XVI are contained in documents AP IV/11, 16 and 89.

The Study Group proposed some new questions for study. The equivalent might not be the same in both directions of a connection, depending on the specifications of the transmission plan, and this anomaly ought to be studied. Attention should also be paid to the overall characteristics of national systems.

The CHAIRMAN then invited the Assembly to examine the Final Report (document AP IV/89) page by page.

After a discussion in which the delegates of the U.S.S.R., LEBANON, AUSTRALIA, the UNITED KINGDOM and Mr. Claeys took part, *it was decided* to insert the following paragraph on page 6 of document AP IV/89 under the heading "Question 3/XVI—Circuits on communication satellite systems":

"Only high-altitude satellite communication systems have been studied so far and all that follows is applicable only to such systems."

The Final Report of Study Group XVI was *adopted* as a whole, subject to this amendment.

Mr. Claeys then announced that he would be retiring shortly and thanked the members of Study Group XVI for their co-operation.

The Chairman expressed his congratulations and thanks to the Vice-Chairman of Study Group XVI and the delegates who had taken part in its work.

## **5. Report by Special Autonomous Working Party No. 2 (Local networks)**

Mr. SUNDIN (Sweden), Chairman, described the work done by GAS 2, which had been set up by the IIIrd Plenary Assembly. It had met three times and submitted its report in document AP IV/61.

After preparing a questionnaire to which 24 countries had replied, GAS 2 had laid down the plan for its manual and the task of drafting the various chapters had been allocated amongst its members. Study Group XII had assisted it in transmission questions. GAS 2 was fully aware of economic problems—which will be referred to again in connection with the work of GAS 5. Some points of the work of GAS 2 still had to be completed but the Working Party trusted that its Manual would henceforth be generally useful. An important bibliography enhanced its usefulness.

The Plenary Assembly *approved* the report of Special Autonomous Working Party No. 2 without discussion.

The CHAIRMAN expressed his congratulations and thanks to the Chairman of Special Autonomous Working Party No. 2 and to the delegates who had taken part in its work on the importance and quality of the Manual.

## **6. Report of Special Autonomous Working Party No. 5 (Economic conditions and telecommunication development)**

As the Chairman, Mr. Garbe (Federal Republic of Germany), was ill, Mr. LONGE-QUEUE (France), Vice-Chairman, reviewed the activities of GAS 5, whose preliminary report and final report were contained in documents AP IV/61 and 85 respectively. He first wished to correct an error in document AP IV/85, page 7, point 4.2.d, which should read:

"b) the Italian and Spanish Administrations (subject 7-GAS 5)".

He then emphasized that the conclusions reached by GAS 5 were the results of unanimous agreement; in particular, GAS 5 considered that there was no basic difference between "developing" countries and "developed" countries as far as questions of financing were concerned; in such matters, the telecommunication authorities had everywhere to explain the situation to the financial authorities.

Although about 30 replies had been received to the questionnaire issued by the Working Party, it was nevertheless noted that present statistical services were inadequate both in the I.T.U. and in the administrations.

After an exchange of views, in which the delegates of the UNITED KINGDOM, ARGENTINA and FRANCE took part, Mr. MILI (Secretary-General of the I.T.U.) said that the authorities of the Union were actively concerned with improving its statistical service which, it had to be admitted, still worked with outdated methods.

It emerged from a discussion in which the delegate of the U.S.S.R. and Mr. Longequeue took part, that it was important that many countries should apply a small but carefully chosen set of data, and not that a few countries should submit a large amount of data. Moreover, the data should relate to several years so as to give an idea of trends. The list given by GAS 5 in document AP IV/39 should be taken as an indication: the definitive list would have to be drawn up in co-operation with other C.C.I.T.T. Study Groups and even with other organs of the Union.

The delegate of POLAND emphasized that work on the GAS 5 Manual had not been concluded. It was even a moot point whether the results obtained so far should be published. However, since the Manual concerned had already been issued it should be made quite clear that it was no more than a provisional document and that GAS 5 would continue to work on the Manual.

The delegate of ARGENTINA returned to the question of regional subworking parties. There were several problems, such as their terms of reference, the possibilities of the Secretariat, and the expense of participating in their meetings incurred by delegates from developing countries. Mr. ROUVIÈRE (Director of the C.C.I.T.T.) suggested that Technical Co-operation experts of the I.T.U. should co-ordinate studies undertaken at the regional level without the participation of the C.C.I.T.T. Secretariat, and that some other problems should be studied at meetings of the Plan Committees, as had been the case at Addis Ababa for instance.

MR. MILI (Secretary-General of the I.T.U.), replying to a question, specified that the U.N.D.P. refused to consider attendance at I.T.U. seminars as studies giving entitlement to fellowships, so that it was not to be expected that the cost of attending meetings of working parties and committees would be defrayed by it.

The report of GAS 5 was then *adopted*.

The CHAIRMAN congratulated all the members of Special Autonomous Working Party No. 5 on the excellent standard of their work.

*The meeting rose at 1.15 p.m.*

### THIRD PLENARY MEETING

Wednesday, 16 October 1968, at 9.30 a.m.

*Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)

#### *Subjects discussed*

1. Report of Special Autonomous Working Party No. 1
2. Report of Special Autonomous Working Party No. 4
3. Terms of reference of Plenary Assembly Committee B
4. Report of Study Group I
5. Joint Report of Study Groups X and I

#### *Document Nos.*

- AP IV/26  
AP IV/48  
  
AP IV/19, 27, 28, 35, 86  
AP IV/19, 31, 87



### **1. Report of Special Autonomous Working Party 1 (GAS/1) (National automatic networks)**

On the invitation of the CHAIRMAN, and in the absence of Mr. Banks and Mr. Nielsen, Chairman and Vice-Chairman respectively of GAS 1, Mr. SAWKINS (Australia) presented the Working Party's report and gave some explanations. Parts A and B of the Manual on national automatic networks had already been published in 1964, and GAS 1's remaining task was to prepare Part C and study Questions "Latin America No. 1" and "Asia No. 3". That work was completed and the manual edited in French, English and Spanish. Mr. Sawkins added that the bibliography for the three parts of the Manual would form a separate booklet. As had been suggested by the C.C.I.T.T. Secretariat, the bringing up to date of Chapter V (Transmission) of Part A of the Manual would be facilitated if the presentation were changed; that could be done by Study Group XVI. Mr. Sawkins thanked the four Vice-Chairmen who had assisted GAS 1, i.e.: Mr. G.J. Kameerbeck (Netherlands), Mr. O. Myers (A.T. & T.), Mr. Lohr (Federal Republic of Germany) and Mr. J. Nielsen (Denmark), and the authors of the various chapters of Part C.

The report of GAS 1 was *approved* unanimously.

### **2. Report of Special Autonomous Working Party No. 4 (GAS 4) (Primary power sources)**

On the invitation of the CHAIRMAN, Mr. BENTLEY (Canada), Chairman of GAS 4, presented its report. As it had not been possible to examine all of the contributions submitted, he requested the Assembly to prolong the mandate of GAS 4 for some months and authorize there and then the future publication of the complete manual on primary power sources.

In reply to a question by the delegate of PAKISTAN, Mr. Bentley said that the text of the manual would probably take three or four months to prepare and GAS 4 would then meet to approve the proposed text, and make drafting amendments if necessary. The manual could therefore be published during the second half of 1969.

The report of GAS 4 was *approved*.

### **3. Terms of reference of Plenary Assembly Committee B (Programme of work of the Study Groups)**

The delegate of AUSTRALIA, through the CHAIRMAN, asked for the terms of reference of Committee B to be clarified. Was the Committee able to delete a Question whose study was approved by the Plenary Assembly? Did it have the right to allocate Questions for study in order of priority? Could it ask Committee C for the budgetary implications of the meetings envisaged?

After a lengthy discussion between the DIRECTOR OF THE C.C.I.T.T. and the delegates from AUSTRALIA, U.S.S.R., FRANCE, CEYLON, CANADA, POLAND and the UNITED KINGDOM, the Assembly decided to wait for the Report of Committee A (Methods of work and organization of the Study Groups) before examining the question of the scope of the terms of reference of Committee B.

### **4. Report of Study Group I (Telegraph operation and tariffs (including the telex service))**

Mr. VARGUES (France), Chairman of Study Group I, presented the reports of the Study Group to the Assembly. He briefly reviewed the chief points studied and recalled that the final draft of the Telegraph Regulations was to be submitted only at the following

C.C.I.T.T. Plenary Assembly before the Telegraph Conference. It was hoped shortly to be able to make important amendments to the existing draft to make it clearer and more simple.

As regards the implementation of the provisions relating to the transferred accounts service, the delegate of JAPAN proposed the date of 1 January 1970.

Mr. Vargues said that the final draft of a credit card had yet to be established by the C.C.I.T.T. Secretariat and that the printing and despatch of the card to administrations would require some time; the date of 1 January 1970 seemed reasonable, in his opinion.

In reply to a question by the delegate of the U.S.S.R., Mr. Vargues thought that that date should not appear in the Telegraph Regulations or in the Recommendations but that the C.C.I.T.T. Secretariat should announce it in due course.

The Assembly *approved* the date of 1 January 1970.

The delegate of DENMARK pointed out that the mention "3)" should be added at the end of the first two paragraphs on page 21 of the Final Report of Study Group I (document AP IV/86) and the corresponding note 3 added after notes 1 and 2. The text of the supplementary note would be as follows:

"3) For information, there is a service called "Fonotelex" based on the combined use of the telephone and telex services and admitted by the Administration of Denmark for the incoming and outgoing national and international services."

The delegate of ARGENTINA noted an error in the Spanish title of document AP IV/86.

Subject to the addition proposed by the delegate of Denmark and the amendment requested by the delegate of Argentina, the Final Report of Study Group I was *approved by acclamation*.

## **5. Joint Report of Study Groups X and I (Joint questions on telegraph operation and switching)**

Mr. JANSEN (Netherlands), Rapporteur for Questions dealt with jointly by Study Groups X and I, presented the report. He mentioned the important points and indicated the Questions which should continue to be studied, with an amended text if necessary, and the new Questions which should be considered.

He then thanked the Chairmen or Vice-Chairmen of the Joint Working Parties who had lent their valuable assistance: Mr. Gosewinckel (Australia) (Joint TGX Working Party), Mr. L. Benko (Hungary) (Joint EFF Working Party), Mr. Bonacci (Italy) and Mr. R. K. Andres (United States of America) (Joint MRT Working Party).

The delegate of AUSTRALIA suggested the following amendments to the text of document AP IV/87:

*Page 4*—Delete the word "one-letter" in the first line of the third paragraph.

*Page 9*—Line 10, replace the words "each end" by "either end".

*Page 11*—Recommendation F.67, paragraph iii: replace the words "may not be the same" by "is not necessarily the same".

Subject to those amendments, which were *accepted* by the Assembly, the report prepared jointly by Study Groups X and I was *approved*.

The CHAIRMAN thanked the Chairmen and the members of the various Study Groups, and the C.C.I.T.T. Secretariat for concluding successfully the work covered in the reports mentioned in the present document.

*The meeting rose at 12.45 p.m.*

## FOURTH PLENARY MEETING

**Thursday, 17 October 1968, at 9.30 a.m.**

*Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)

### *Subjects discussed*

1. Report by Study Group II
2. Report by Study Group III
3. Report by Study Group XIV
4. Report by Special Autonomous Working Party No. 3

### *Document Nos.*

- AP IV/78 (and Recommendations in AP IV/55, 56 and 58)  
 AP IV/81, 91 (and Recommendations in AP IV/54)  
 AP IV/20 and 83  
 AP IV/89

### **1. Report by Study Group II (Telephone operation and tariffs)**

Mr. R. RÜTSCHI (Switzerland) (Chairman) reviewed the work of Study Group II and presented the final report submitted to the Plenary Assembly (document AP IV/78). He dwelt on the important results achieved by the Working Parties under the chairmanship of Messrs. H. Huber (Federal Republic of Germany)—New system for the establishment of international accounts (document AP IV/55); L. Burtz (France)—Instructions for the International Telephone Service (document AP IV/56); D. Warner (United States)—Draft telephone regulations; and A.P. Hawkins (United Kingdom)—Intercontinental television transmissions by satellite (document AP IV/58).

In presenting the part of the report by Study Group II relating to the draft telephone regulations, Mr. Rüttschi said that any amendments that might be necessary could be made during the following study period, as was the case with the Telegraph Regulations prepared by Study Group I.

After a discussion, in which the delegates of POLAND, the U.S.S.R., the UNITED KINGDOM, FRANCE and Mr. Rüttschi took part, on the Polish proposal (already examined in committee) to specify that the new accounting procedures proposed in Recommendation E.50 applied *only* to semi-automatic and automatic traffic, the Assembly *decided* to replace paragraph 1.3 on page 3 of document AP IV/55, proposed by Study Group II, by the following text:

“The following additional procedures to meet these new situations and improve the efficiency of the world telephone network are valid, above all, for semi-automatic and automatic operation. They can be applied on relations operated manually, subject to agreement between the administrations of *all* the countries concerned.”

After a further discussion, in which the delegates of the U.S.S.R., Mr. Rüttschi and Mr. HUBER took part, it was decided to maintain the substance of paragraph 2.3 in Recommendation E.50 (page 4 of document AP IV/55), at the same time requesting the Editorial Group for Volume II to draft it more clearly.

With regard to draft Recommendation E.58 *bis* (document AP IV/58), the delegate of ARGENTINA proposed some amendments to paragraph 1.1.3 (page 4), and to the figure on page 7. After statements by the delegate of the U.S.S.R. and Mr. HAWKINS, it was decided to set up a small group to draft the paragraph concerned.

The report by Study Group II was *adopted* by the Assembly.

The CHAIRMAN thanked the Chairman of Study Group II, the Chairmen of its Working Parties and all its members for the considerable work they had done.

## **2. Report by Study Group III (General tariff principles)**

The Chairman, Mr. P. F. ERIKSEN (Denmark), reviewed the work of Study Group III and submitted its final report (document AP IV/91) to the Plenary Assembly. There was a series of draft amendments to be made to the report.

The report by Study Group III was unanimously *adopted* by the Plenary Assembly without discussion.

Mr. Eriksen then announced that a new Question (document AP IV/81) had been submitted to the Plenary Assembly by the administrations of the United Kingdom and Denmark.

The delegate of the UNITED STATES proposed that the first paragraph of the Question be replaced by the following:

“What steps should be taken, if need be, to prevent data processing centres from replacing telecommunication administrations in supplying public telecommunication services?”

Mr. BESSEYRE, Senior Counsellor of the C.C.I.T.T., and the delegate of the U.S.S.R. found the Question rather vague and too restricted in scope and wondered whether it would not be better to adopt it in due course by correspondence.

After further statements by Mr. Eriksen and the delegates of NORWAY, FRANCE and JAPAN, the Assembly decided to adopt the Question as amended by the delegate of the United States.

The CHAIRMAN congratulated Mr. Eriksen and thanked him and the members of Study Group III for the excellent results they had achieved.

## **3. Report by Study Group XIV (Facsimile telegraph transmission and equipment)**

The Chairman, Mr. H. BITTER (Federal Republic of Germany), briefly summed up the work of his Study Group and submitted its preliminary report (document AP IV/20) and final report (document AP IV/83) to the Plenary Assembly. The report by the Working Party on Definitions, contained in document AP IV/29, would be studied by the Assembly together with the report by Study Group VII.

Mr. BESSEYRE, Senior Counsellor of the C.C.I.T.T., pointed out that the photograph used in the standardized test chart should be replaced: the Study Group had decided to adopt the photograph of a young boy submitted by Argentina, so that standardized test chart No. 2 would be known as the Mar del Plata test chart for a double reason.

The Assembly *approved* the report by Study Group XIV without discussion.

The CHAIRMAN congratulated and thanked Mr. Bitter, the Chairmen of the Working Parties and the members of Study Group XIV.

#### **4. Special Autonomous Working Party No. 3 (Economic and technical comparison of transmission systems)**

The Chairman of GAS 3, Mr. BEN ABDELLAH (Morocco), presented the final report of the Working Party (document AP IV/99) which cancelled and entirely replaced document AP IV/64. He specified the scope of the work undertaken and the points which ought to be studied in the 1968-1972 period.

The Assembly unanimously *adopted* the report by GAS 3 without discussion.

The CHAIRMAN congratulated Mr. Ben Abdellah, the co-ordinators of the editorial groups, and the members of GAS 3 on the excellent work they had done.

*The meeting rose at 12.45 p.m.*

#### **ANNEX**

(to the Minutes of the Fourth Plenary Meeting)

Amendments to document AP IV/58 (Intercontinental television transmissions)

1. On *page 3*, paragraph 1.1.2, second line,

On *page 4*, paragraph 1.1.3, third line,

On *page 7* (Figure 1):

In the English text, replace "satellite section" by "satellite sector"

In the French text, replace "section (par) satellite" by "secteur par satellite"

2. On *page 4*, paragraph 1.1.3, first line:

In the English text, replace "to be divided between" by "as including"

In the French text, replace "se divise en" by "comprend".

#### **FIFTH PLENARY MEETING**

**Friday, 18 October 1968, at 9.30 a.m.**

*Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)

##### *Subjects discussed*

1. Report by Special Study Group A
2. Report by Special Study Group C
3. Report by Study Group IV
4. Report by Study Group VII
5. Report by Study Group V
6. Report by Study Group VI

##### *Document Nos.*

- AP IV/33, 34, 35, 73, 74, 75, 80 and 100  
 AP IV/51 and 101  
 AP IV/21, 36, 37, 46, 50, 66, 69 and 82  
 AP IV/29, 67 and 94  
 AP IV/22, 25, 40 and 96  
 AP IV/24, 25, 38, 42, 43 and 92

## 1. Report by Special Study Group A (Data transmission)

Mr. J. RHODES (United Kingdom), Chairman of Special Study Group A, introduced the final report published in document AP IV/80 which was based on documents AP IV/33, 34, 35, 73 and 74. He recalled that Special Study Group A had met in 1965, 1967 and recently at Mar del Plata.

Mr. Rhodes then described the draft new or revised recommendations, and indicated the proposed future study programme for Special Study Group A: five questions had been concluded, the study of 21 questions should be continued and there were five new questions to be examined.

He concluded by saying that the attention of Committee B should be drawn to the new networks envisaged in document AP IV/34 (Future network for data and message transmission), and that of Committees A and B to document AP IV/75 from the I.S.O. which dealt with co-operation between the I.S.O. and the C.C.I.T.T.

The final report of Special Study Group A was *approved*, subject to the following amendments: in appendix 4 of document AP IV/74, add the words "short circuit" before the word "terminal" in paragraphs 2.b and 3.b; in Table 1 of Recommendation V.26 (document AP IV/80, page 19) replace "+270°" and "+90°" by "+90°" and "+270°" respectively; the delegate of FRANCE suggested the following two changes: add at the end of the first paragraph of draft Recommendation V.35 the sentence "It is a special system which uses a 104.080 kHz pilot", and reproduce on pages 9 and 10 the exact text provided by Study Group XV.

The CHAIRMAN thanked Mr. Rhodes and all the members of Special Study Group A for the important work they had performed with success.

## 2. Report by Special Study Group C (Noise)

In the absence of Mr. H. Williams (United Kingdom), Chairman of Special Study Group C, who retired in 1967, Mr. KAISER (Federal Republic of Germany), Vice-Chairman of the Study Group, introduced documents AP IV/51 and AP IV/101. He recalled that the work of Special Study Group C, a joint C.C.I.T.T./C.C.I.R. Study Group managed by the C.C.I.T.T., was of concern to various Study Groups of the two organs as well as to the C.M.T.T. It did not consist in formulating draft Recommendations but recommendations submitted to other Study Groups. Special Study Group C was in fact a supreme study group for all questions of noise. He gave a progress report on the state of the work of Special Study Group C, described in the final report of the Study Group (document AP IV/51).

Mr. DUNNE, C.C.I.T.T. engineer, pointed out that Study Group IX had requested that in the new draft Recommendation H.6 (Question 7/C) the words "and telegraphy" be added after "data transmission" in the first line of the consideranda.

Mr. Kaiser said that the addition would appear in the revised text together with other drafting amendments.

He then turned to document AP IV/101 concerning reliability and said that the work on reliability should be co-ordinated; he asked for an extension of the terms of reference

of Special Study Group C so that it could deal jointly with questions on noise and reliability which were closely linked.

The representative of I.A.T.A. drew attention to document AP IV/23 from I.C.A.O. which dealt with the quality and reliability of leased circuits for aeronautical services. He hoped that the C.C.I.T.T. would take the necessary measures to study those questions thoroughly during its forthcoming study period, as they were extremely important for the aeronautical services.

The delegate of the UNITED KINGDOM said that a distinction should be made between reliability objectives for the design of new equipment and systems and the service reliability to be provided for users using equipment of various ages which made up the circuits. The former aspect (design of new equipment) was the subject of Questions of C.C.I.T.T. Study Group XV and C.C.I.R. Study Group IX.

The delegate of FRANCE, speaking as Chairman of Study Group XV, supported that view and considered that Special Study Group C, a joint C.C.I.T.T./C.C.I.R. Study Group, should act as a central agency and forward the Questions to be studied to the various Study Groups concerned after having defined the general principles relating to reliability.

The CHAIRMAN said that that aspect of the work would be taken into account when the studies were allocated.

Mr. Kaiser thanked the members of Special Study Group C, the C.C.I.T.T. and C.C.I.R. Study Groups, the C.C.I.T.T. and C.C.I.R. Secretariats, the Director of the C.C.I.T.T. and his collaborators, especially Mr. Lalou.

The report of Special Study Group C was *approved*.

The CHAIRMAN in turn thanked Mr. Kaiser and the members of Special Study Group C for the task they had carried out with such competence.

### **3. Report by Study Group IV (Maintenance of lines, circuits and chains of circuits)**

Mr. VALLOTON (Switzerland), Chairman of Study Group IV, reviewed the work done during the 1964–1968 study period, indicating the Working Parties which had shared in it. Referring to document AP IV/36 (preliminary report), Mr. Valloton said that the study of the different Questions entrusted to Study Group IV had resulted in the drafting of many new or amended Recommendations, which had led to a complete redraft of Volume IV of the *Blue Book*. The draft of the new Volume IV was contained in document AP IV/37.

Mr. Valloton thanked those who had contributed to its preparation and in particular the Editorial Group and the C.C.I.T.T. Secretariat.

Referring to documents AP IV/21, 46 and 50, he pointed out that the last-mentioned document had been replaced by document AP IV/104, as it had been amended after being forwarded to Study Group XI. He introduced documents AP IV/69 and AP IV/82 (with its corrigendum) which made up the final report of Study Group IV.

The E.B.U. observer thanked the Chairman and the members of Study Group IV for the work done on sound programme circuits and assured them of the wholehearted co-operation of the E.B.U. in forthcoming studies.

The delegate of ARGENTINA pointed out that in the Spanish texts the word "mantenencia" should be replaced by "mantenimiento" and said he would forward some other amendments to the Spanish text of document AP IV/82 to the C.C.I.T.T. Secretariat.

The final report of Study Group IV was *approved*.

The CHAIRMAN thanked the Chairman, Vice-Chairman and members of Study Group IV for having successfully carried out their important task.

#### **4. Report by Study Group VII (Definitions and symbols)**

As Mr. Gella-Iturriaga (Spain) and Mr. Ducommun (Switzerland), Chairman and Vice-Chairman respectively of Study Group VII had been unable to attend the Plenary Assembly at Mar del Plata, Mr. DORMER, C.C.I.T.T. Counsellor, presented the final report of the Study Group (document AP IV/29) and documents AP IV/67 and AP IV/94 which contained additional information. During the 1964–1968 period, Study Group VII had mainly studied what its role should be in the preparation of the vocabulary and definitions common to telecommunication organizations and what assistance it could give to the International Electrotechnical Commission (I.E.C.) with a view to the preparation of a new edition of the International Electrotechnical Vocabulary.

Mr. Dormer drew the Assembly's attention to the fact that the rapid development of telecommunications generally made vocabularies drawn up in several languages out of date as soon as they were published. It was for that reason that Study Group VII had envisaged the publication of supplements to the *List of definitions of essential telecommunication terms*. This had already been done with the issue of the first two supplements to the *List*, containing the definitions adopted by the various Study Groups, as contained in documents approved by Plenary Assemblies without being examined by Study Group VII. That procedure, if approved, would entail the adoption of Recommendation A(a) proposed in the report.

As for a new edition in several languages of the *List of definitions of essential telecommunication terms*, Study Group VII had been unable to complete its task because administrations had not supplied the necessary translations in time. Study Group VII proposed to proceed as indicated in amended Recommendation A.11 (page 57 of the report) so as not to delay the publication of the new edition any longer.

As far as graphical symbols were concerned, Mr. Dormer pointed out that Study Group VII had proposed an amendment to Recommendation A.13.

In addition, to implement a proposal to use the units of the system adopted by the International Committee for Weights and Measures (International System), existing Recommendations B.1 and B.2 should be replaced by new Recommendation B.1.

The DIRECTOR OF THE C.C.I.T.T., while not wishing to interfere in the work of Committee A regarding the possible abolition of Study Group VII, considered that premature conclusions should not be drawn from the fact that the Study Group in question had handed over most of its prerogatives to the I.E.C. He recalled that the Union was the international organization responsible for studying telecommunication questions and that it should therefore keep the initiative regarding definitions and symbols which fell



within its terms of reference, though naturally in collaboration with the I.E.C. He added that the Director of the C.C.I.R. intended to propose, at the next Plenary Assembly of that organ, that C.C.I.T.T. Study Group VII and C.C.I.R. Study Group XIV be merged into a Joint Study Group managed by the C.C.I.T.T.

In reply to a question from the delegate of the UNITED KINGDOM about a letter from his administration (the text of which was reproduced in document AP IV/67), Mr. Dormer thought that the letter raised a point to which the Director of the C.C.I.T.T. had just replied, and a second point which dealt in general with the future of Study Group VII.

The report of Study Group VII was *approved* and the CHAIRMAN thanked Mr. Dormer and those participating in the work of Study Group VII for their contribution to the work of the C.C.I.T.T.

#### **5. Report by Study Group V (Protection against danger and electromagnetic interference)**

Mr. RIEDEL (Federal Republic of Germany), Chairman of Study Group V, reviewed the activities of the Study Group and the two Joint Working Parties made up respectively of members of Study Groups V and VI and members of Study Groups V and XV.

In spite of the volume of the work of Study Group V, it had met only once, apart from meeting at Mar del Plata, in Lisbon in April 1967.

Mr. Riedel described the progress of the work of Study Group V on the different questions studied, giving the texts of questions proposed for study in the period 1968–1971, and gave an account of the work and results obtained by Joint Working Party V/VI (Protection against lightning) and the small group of experts which had drawn up the recapitulatory table of information supplied by administrations to the Joint Working Party V/XV (Protection of power-feeding and transistorized repeaters).

He thanked the members of Study Group V, and the other Study Groups which had collaborated with it, and the C.C.I.T.T. Secretariat for its valuable assistance and unsparing efforts.

The report of Study Group V was *approved*.

The CHAIRMAN thanked in turn the Chairman, Vice-Chairman and members of Study Group V for the fruitful work they had completed.

#### **6. Report by Study Group VI (Protection and specification of cable sheaths and poles)**

Mr. HALSTRØM (Denmark), Chairman of Study Group VI, informed the Plenary Assembly of the activity of the Study Group during the period 1964–1968. He presented documents AP IV/24, 25, 38, 43 and 92; as Mr. Dormer had pointed out, document AP IV/42 was not to be examined by the Plenary Assembly.

Mr. Halstrøm emphasized that Study Group VI was rather different in nature from the other C.C.I.T.T. Study Groups, since some of the recommendations it issued were published in Volume IX of the *Blue Book*, but the majority were contained in the publication *Recommendations for the protection of underground cables against corrosion*. The basic task of Study Group VI was to keep those recommendations constantly up to date.

As certain aspects of the work of Study Group VI were also of concern to Study Group V, the question of protection against lightning had been entrusted to a Joint Working Party made up of members of Study Groups V and VI and was described in document AP IV/25 which had already been presented by the Chairman of Study Group V.

The report of Study Group VI was *approved*.

The CHAIRMAN thanked Mr. Halstrøm and the members of Study Group VI for the excellent work they had done. Mr. Halstrøm was taking part in the work of the C.C.I.T.T. for the last time, and the Chairman expressed his appreciation, on behalf of all, for the extremely useful work he had performed so competently.

*The meeting rose at 12.50 p.m.*

## SIXTH PLENARY MEETING

**Monday, 21 October 1968, 9.30 a.m.**

*Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentina)

### *Subjects discussed*

1. Report of Study Group IX
2. Report of Study Group X
3. Report of Study Group VIII
4. Report of Study Group XI

### *Document Nos.*

- AP IV/14, 17 and 90  
 AP IV/31, 34 and 102  
 AP IV/18, 35 and 98  
 AP IV/32, 52, 59, 95, 104 and 108

The CHAIRMAN presented the draft programme of work for the week from 21 to 25 October which had been prepared by the meeting of Chairmen and Vice-Chairmen. The Assembly *approved* the programme and, on the proposal of the delegate of the UNITED KINGDOM, *appointed* Mr. VAN LOMMEL as Chairman of the Working Party on Books.

### **1. Report of Study Group IX (Telegraph transmission)**

In the absence of Mr. P. Bassole (France), Chairman, and Mr. F. W. Höld (Netherlands), Vice-Chairman *ad interim*, who had succeeded Mr. R. N. Tenton (United Kingdom) on the latter's retirement, Mr. BESSEYRE, C.C.I.T.T. Senior Counsellor, presented the report of Study Group IX (document AP IV/14—Preliminary report, AP IV/90—Final report, and AP IV/17—Report of Joint Working Party on synchronous telegraphy). He outlined the activity of the Study Group and presented the new questions proposed for the following study period.

The Assembly *adopted* the Report of Study Group IX unanimously.

The CHAIRMAN thanked the Study Group for its work and invited the Assembly to applaud the Chairman and Vice-Chairman who had not been able to come to Mar del Plata.

## 2. Report of Study Group X (Telegraph switching)

Mr. A. JANSEN (Netherlands), Chairman, presented the Study Group's preliminary report (documents AP IV/31 and 34) and final report (AP IV/102). He said he would hand in to the C.C.I.T.T. Secretariat a list of drafting changes in the English texts. The Assembly *decided* that the corrected English text should be considered as the approved text. The French and Spanish texts should be brought into line with it.

The delegate of the UNITED KINGDOM, referring to the proposed setting up of a Joint Working Party to study Question G/X (amended), asked that the Chairman and Vice-Chairman of the Working Party be appointed by the Assembly.

The report of Study Group X was *adopted* unanimously.

The CHAIRMAN congratulated Mr. Jansen and all those who had worked with him in Study Group X.

## 3. Report of Study Group VIII (Telegraph apparatus and local connecting lines)

Mr. BAGGENSTOS (Switzerland), Chairman, presented the Study Group's preliminary and final reports (documents AP IV/18 and 98) and they were *adopted* unanimously by the Assembly.

Mr. J. BESSEYRE, C.C.I.T.T. Senior Counsellor, invited the Assembly to adopt the report of the Joint Working Party of Study Groups I, VIII and Special A (document AP IV/35) on Telegraph Alphabet No. 5 with the amendments already approved when the reports of Study Groups I and VIII were adopted and those presented by Study Group VIII in document AP IV/98.

The Assembly *adopted* the report unanimously, with the amendments mentioned.

The Assembly shared the congratulations expressed by its Chairman to the Chairmen of the Study Group and the Joint Working Party and all the members of the two bodies.

## 4. Report of Study Group XI (Telephone switching and signalling)

Mr. TOBIN (United Kingdom), Chairman, presented the Study Group's report contained in documents AP IV/32 (preliminary report), AP IV/52 (Specifications for signalling system No. 5 *bis*), AP IV/59 (Specifications for signalling system No. 6), AP IV/95 (final report), AP IV/104 (final report of the Joint Working Party of Study Groups IV and XI on ATME No. 2) and AP IV/108 (Proposal for the study of the MFC (Bern) signalling system with a view to its standardization).

The Assembly unanimously *adopted* the specifications of signalling systems Nos. 5 *bis* and 6.

The delegate of BRAZIL, seconded by the delegate of ARGENTINA, proposed amending the text of new Question F/XI on study by the C.C.I.T.T. of the standardization of the MFC band system, so that the end of the sentence would read "with a view to its adoption on a regional basis as a C.C.I.T.T. Standardized System".

The Brazilian proposal was supported by the delegates of the following countries: PHILIPPINES, FEDERAL REPUBLIC OF GERMANY, FRANCE, CENTRAL AFRICAN REPUBLIC, ITALY, AUSTRIA, PARAGUAY, FRENCH OVERSEAS TERRITORIES, POLAND, SWITZERLAND, SPAIN AND CONGO (BRAZZAVILLE).

The delegate of BELGIUM also supported the Brazilian proposal but, considering that the system already existed, was working and that its specifications were clearly established, he proposed that the Assembly approve it directly without setting it for study.

The DIRECTOR OF THE C.C.I.T.T. observed that the Assembly was sovereign and while the procedure proposed by Belgium was admittedly unusual, it was not irregular. If the Assembly found the procedure unacceptable, there was another procedure open to it, namely, to appoint a special working party to study the MFC (Bern) system and prepare the necessary provisional recommendation, assuming that the idea of accepting provisional recommendations would be generally accepted by the Assembly. In his opinion, the standardization could in that way already become a fact in 1969.

The delegate of JAPAN was in favour of setting the system for study.

The delegate of BELGIUM, considering that study of the system could in no case change it, saw no point whatever in studying it and again requested the immediate approval of the system by the Assembly. He was supported by the delegates of ARGENTINA, BRAZIL, SPAIN, PARAGUAY and URUGUAY.

The delegate of the UNITED STATES OF AMERICA, supported by the delegate of CANADA, did not think that the Assembly could approve the standardization of the MFC (Bern) system without prior study. He asked that the North American system which was also used by several countries on a regional basis be studied as well.

The DIRECTOR OF THE C.C.I.T.T. then suggested that the Assembly standardize the *regional* use of the MFC (Bern) system and of the North American system without undertaking their study since they were perfectly well known to everybody. His suggestion was supported by the delegates of FRANCE, CANADA, UNITED STATES OF AMERICA, LEBANON, MALAYSIA and ITALY.

The delegate of the UNITED KINGDOM suggested that the introduction of two new signaling systems, each used on a regional basis by agreement between the countries concerned, raised the problem of defining their sphere of application and their interworking with existing standardized systems. It could be settled by preparing a new draft recommendation on the lines of Recommendation Q.7.

Mr. TOBIN having asked who would provide the C.C.I.T.T. Secretariat with specifications of these systems with a view to their publication in the *White Book*, the delegate of the UNITED STATES OF AMERICA said that the A.T. & T. would send the specifications of the North American system within three months and the delegate of SWITZERLAND announced that he would similarly send the specifications of the MFC (Bern) system which were the joint work of a number of European administrations.

The Plenary Assembly then *decided* unanimously to standardize the MFC (Bern) system and the North American system on a regional basis. The changes to be made in Recommendation Q.7 to take account of that fact would be prepared by the Drafting Group of Volume VI of the *White Book*. Questions F/XI and G/XI were therefore withdrawn from the programme of studies submitted by Study Group XI.

Mr. Tobin completed the presentation of the report of Study Group XI which was *approved* unanimously by the Assembly.

The CHAIRMAN associated himself with the thanks that Mr. Tobin had addressed to Working Party XI/1 and to its Chairmen, Mr. McGuire and Mr. Jouty, and to Mr. Bernard's drafting group for the enormous amount of work that they had done. He asked the Assembly to join with him in thanking and congratulating Mr. Tobin who was due to retire.

[*Prolonged applause.*]

**SEVENTH PLENARY MEETING****Tuesday, 22 October 1968, at 9.30 a.m.***Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)*Subjects discussed*

1. Report of Special Study Group B
2. Report of Study Group XV
3. Report of Study Group XIII
4. Proposal for a single transmission unit
5. Colour of the Book of the IVth Plenary Assembly

*Document Nos.*

- AP IV/53 and 103  
AP IV/47, 62, 63, 65, 68, 106  
(AP IV/34 and 46)  
AP IV/49, 60, 76, 77 and 114  
AP IV/30  
AP IV/2

**1. Report of Special Study Group B (World automatic and semi-automatic telephone network)**

Mr. E. C. LAIRD (United States of America), Chairman, after briefly recalling the terms of reference of Special Study Group B, introduced its report to the Plenary Assembly section by section (documents AP IV/53 and 103). Since the days of Special Study Group B were numbered, he would like to thank Messrs. Rüttschi, Valloton, Tobin, Kroutl, Lambiotte and Claeys, Chairmen of Study Groups II, IV, XI, XII, XIII and XVI respectively—the work of which it had been Special Study Group B's task to co-ordinate—for their assistance and co-operation. He wished, in particular, to mention Mr. Banks, who had been unable to attend the Assembly and who, as Vice-Chairman of Special Study Group B, had constantly provided valuable support.

The report by Special Study Group B was unanimously *adopted*.

The CHAIRMAN congratulated Mr. Laird and likewise addressed his thanks to all the persons mentioned.

**2. Report of Study Group XV (Transmission systems)**

Mr. F. JOB (France), Chairman, introduced the report by Study Group XV contained in documents AP IV/47, 62, 63, 65 and 106 and gave an explicit account of its work during the period 1964–1968. He drew attention to the considerable amount of work done by its eight Working Parties and their Chairmen, and in particular to the part played by Mr. Claeys. He also stressed the vital role played by the C.C.I.T.T. Secretariat, particularly in ensuring the continuity of the work.

The delegate of POLAND wondered whether the Assembly could not send messages of thanks to Mr. Claeys and Mr. Banks.

The CHAIRMAN undertook to convey the Assembly's thanks to them by telegram.

The report by Study Group XV was unanimously *adopted*.

Mr. LALOU, C.C.I.T.T. Counsellor, pointed out that the report by Study Group XV also included document AP IV/68 on co-operation with the I.E.C., which had already been approved by the Study Group and should also be adopted by the Assembly.

The Assembly unanimously *adopted* document AP IV/68.

The CHAIRMAN congratulated Mr. Job, the Chairmen of the Working Parties and all the members of Study Group XV on the work done.

### 3. Report of Study Group XIII (Automatic and semi-automatic telephone networks)

Mr. M. LAMBIOTTE (Belgium), Chairman, introduced the report of Study Group XIII (documents AP IV/49, 60, 76, 77 and 114) and described the activities of its four Working Parties. While paying tribute to the valuable work done by the other three Working Parties, under the chairmanship respectively of Mr. Karlin (Human factors), Mr. Wright (Theoretical studies on traffic statistics) and Mr. Newstead (Routing plan), he felt that special praise should go to Working Party XIII/4 (Supervision of operation and maintenance) and its Chairman, Mr. Biot, for managing to make up the considerable leeway in the Study Group's work on that subject.

The delegate of SWITZERLAND wondered whether there was not some overlapping between the work done by Study Group II and that done by Study Group XIII on the supervision of operation. The same seemed to apply to the question of human factors.

Mr. Lambiotte agreed that human factors fell more within the scope of Study Group II and said he had already submitted a proposal in that context to Committee B during its examination of the list of questions. As for the supervision of operation, he considered that each of the two Study Groups had a clearly defined sphere of activity on that question. That was the conclusion reached by Committee A in organizing the work.

The delegate of AUSTRIA proposed a slight amendment, on page 30 of document AP IV/114, to the title of annex 1 to Question V/XIII to indicate clearly that the results were only those of a preliminary study.

After Mr. Lambiotte had given an explanation, the amendment submitted by the delegate of Austria was *adopted* (see annex below).

Mr. Lambiotte reported that the C.C.I.T.T. had received a letter from the International Organization for Standardization (I.S.O.) on the standardization of push-button telephone sets unanimously advocated by Study Group XIII at New York in 1966 and at Tokyo in 1967. It was for the Plenary Assembly to confirm that the C.C.I.T.T. really was competent to fit such standards and to approve the standards proposed by Study Group XIII in its reply to Question 4/XIII.

The I.S.O. representative appealed for a further strengthening in future of the co-operation between the two organizations which had produced such excellent results in the past.

The DIRECTOR OF THE C.C.I.T.T. likewise stressed the importance of such co-operation and explained that the Tokyo decision had been taken after a thorough study of the I.S.O. position. He considered that it really was a matter for the C.C.I.T.T.

The Assembly unanimously *approved* that view.

The delegate of ARGENTINA observed that after the decision taken the day before on the regional standardization of the MFC (Bern) system, paragraph 2.2 of the supplementary reply to Question 1/XIII should be amended (page 51 of document AP IV/114). It was *decided* that the amendment in question should be made by the C.C.I.T.T. Secretariat.

As his normal duties would prevent him from acting as a Study Group Chairman any longer, Mr. Lambiotte thanked all those who had worked with him in Study Group XIII,

especially the Chairmen of its four Working Parties and the C.C.I.T.T. Secretariat which had often been overwhelmed with work.

The CHAIRMAN congratulated Mr. Lambiotte and all those who had worked with him. [Applause.]

#### 4. Use of a single transmission unit for international purposes

The delegate of the NETHERLANDS, introducing document AP IV/30 which had been submitted by his administration, outlined the history of the problem and proposed that the Assembly adopt the draft Recommendation given on page 9.

The delegate of ARGENTINA supported the proposal and requested that notes be attached to the symbols dBm, dB0, dBm0, etc.

The delegate of FRANCE expressed certain misgivings, which were echoed by the delegate of CZECHOSLOVAKIA. Would such a decision apply already to the *White Book* to be published after the Plenary Assembly? If so, it would be almost impossible to execute since there was often only an approximate correspondence between the units and the Secretariat was not equipped to make the necessary corrections, some of which would depend on a choice which fell within the terms of reference of a Study Group.

The DIRECTOR OF THE C.C.I.T.T. considered that if the Assembly adopted the text in question it should not affect the forthcoming C.C.I.T.T. book and each Study Group should adjust its corresponding texts.

After a brief discussion between the delegates of the U.S.S.R., the NETHERLANDS and FRANCE, the Director of the C.C.I.T.T. suggested that a footnote be attached to the second operative paragraph of the draft Recommendation. His proposal was supported by the delegate of the U.S.S.R.

The draft Recommendation proposed on page 9 of document AP IV/30 was unanimously adopted by the Assembly, with the footnote suggested by the Director of the C.C.I.T.T.

#### 5. Colour of the Book of the IVth Plenary Assembly

Before the meeting closed, the DIRECTOR OF THE C.C.I.T.T. said that he was continually hearing the words "White Book" applied to the forthcoming C.C.I.T.T. Book but its colour was a matter for the Plenary Assembly to settle.

The Assembly unanimously decided that the next C.C.I.T.T. Book should be white. *The meeting rose at 12.50 p.m.*

### ANNEX

#### Amendment to the title of annex 1 to Question V/XIII

(Document AP IV/114, page 30)

Replace the present title by the following:

*"Annex 1*

*Results of a preliminary study to define the symbols and separators to be recommended for the printing of national and international telephone numbers"*

In the third line of the framed text just below this title, "pages 95 to 100" should read "pages 95 to 99".

**EIGHTH PLENARY MEETING****Wednesday, 23 October 1968, 9.30 a.m.***Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)*Subjects discussed**Document Nos.*

- |  |   |
|--|---|
| 1. Report of Committee D                                       | AP IV/4, 5 and 119                          |
| 2. Approval of the Minutes of the 1st and 2nd Plenary Meetings | AP IV/105 and 107                           |
| 3. Report of Committee A                                       | AP IV/7, 60, 70, 71, 72, 97,<br>111 and 115 |

**1. Report by Committee D (Questions concerning new and developing countries)**

Mr. GIRMAW (Ethiopia), Chairman of Committee D, introduced the Committee's report (document AP IV/119), which had been prepared after the study of document AP IV/4 (report by the Director of the C.C.I.T.T. on technical assistance) and the programme of activities given in Volume I of the *Blue Book*. Committee D congratulated the Special Autonomous Working Parties on the work they had done.

After considering at length the ways and means by which the C.C.I.T.T. could continue its participation in technical co-operation activities, Committee D recommended that the Assembly approve the draft resolution annexed to document AP IV/119.

Mr. Girmaw thanked the members of Committee D and the C.C.I.T.T. Secretariat for their valuable co-operation.

He then said that the second sentence in point 6 of the draft resolution should be replaced by the following: "The C.C.I.T.T. may also organize seminars periodically which might give a general view of C.C.I.T.T. organization and examine in detail selected subjects of special interest to the new and developing countries dealt with by one or more Study Groups."

The delegate of AUSTRALIA thought that point 1 of the draft resolution ought to be preceded by the words "recommends that" rather than "decides that", which would then precede point 2. After a short discussion in which the delegates of PAKISTAN and CEYLON took part, the amendment was *approved*.

The delegate of POLAND pointed out that the second sentence of section 3.2 should be amended to read: "The Working Parties had accomplished a great deal during the IIIrd period; the GAS 1, GAS 2 and GAS 5 Manuals have already been published (it being understood that the GAS 5 Manual was of a provisional nature and that the studies of GAS 5 should be continued) and the Manuals of GAS 3 and GAS 4 will be ready during 1969."

The delegate of ARGENTINA proposed that in the draft resolution in the second paragraph under "taking note of", the words "realizing that steps are being taken or to be taken by the C.C.I.T.T." be replaced by the words "the fact that it is desirable for the C.C.I.T.T. to take steps".

The DIRECTOR OF THE C.C.I.T.T. then pointed out that the steps already taken or to be taken and any complementary technical assistance measures to be taken were a matter for the Plenary Assembly to decide.



The delegate of the PHILIPPINES proposed that the following paragraph be added to the draft resolution: "It should be ensured that the necessary co-ordination will always be effected with the various United Nations Regional Economic Commissions—such as E.C.A.F.E.—which deal with telecommunication questions."

The Director of the C.C.I.T.T. said that a distinction should be made between the various forms of technical assistance supplied by the different organs of the I.T.U. The assistance furnished by the C.C.I.T.T. was purely of an instructional nature and related to technical, operational or tariff questions, whereas the execution and financing aspects fell within the scope of the General Secretariat of the Union.

The SECRETARY-GENERAL OF THE I.T.U. endorsed the statement by the Director of the C.C.I.T.T., adding that the Union had excellent relations with the Regional Economic Commissions. By way of example he mentioned the fruitful co-operation of the I.T.U. with E.C.A.F.E. and the E.C.A.

The delegate of the U.S.S.R. felt that the developing countries might consider that co-operation to be inadequate and therefore supported the statement by the delegate of the Philippines. The Assembly could request the Administrative Council to draw the attention of administrations to the desirability of strengthening co-ordination between the C.C.I.T.T. and the Regional Economic Commissions.

In the opinion of the Secretary-General of the I.T.U., co-operation between the I.T.U. as a whole and the Economic Commissions was most satisfactory, as proved for example by the fruitful co-operation between the regional experts sent by the General Secretariat and the Executive Secretaries of the Regional Commissions. With regard to the C.C.I.T.T., it detached experts—at the request of the General Secretariat—to participate in certain meetings, the expenditure incurred being posted to the Technical Co-operation budget. However, he would not oppose the addition of a paragraph drafted roughly as follows: "recognizing that it is desirable to preserve the excellent relations existing between the I.T.U. and the Regional Economic Commissions".

The Director of the C.C.I.T.T. recalled that Plenary Assemblies had always taken care not to encroach on the terms of reference of the Administrative Council, whose duty it was to decide what measures should be taken to foster co-operation between the I.T.U. and the Regional Economic Commissions. The question should be dealt with not by the present Assembly, but by the Administrative Council.

The delegate of the U.S.S.R. considered that if the representatives of new or developing countries who were present wished to improve co-operation between the I.T.U. and the Regional Economic Commissions, they could take advantage of the Plenary Assembly by asking it to forward its desires to the Administrative Council.

After a long exchange of views in which the delegate of the PHILIPPINES, the delegate of AUSTRALIA, the Director of the C.C.I.T.T. and the Secretary-General of the I.T.U. took part, the latter pointing out the steadily growing importance of the Regional Economic Commission, the delegate of IRELAND suggested, in order to conclude the discussions, not to add the paragraph proposed by the delegate of the Philippines since co-ordination between the I.T.U. and the Regional Economic Commissions was already excellent.

The delegates of TURKEY, MALI and JAPAN supported that proposal and the delegate of the Philippines withdrew his proposal, satisfied as he was with the explanations given, particularly those advanced by the Secretary-General.

The delegate of ARGENTINA requested that paragraph b of point 3 of the draft resolution be replaced by the following: "in view of the need to keep up to date some of the Manuals already published by the Special Autonomous Working Parties, to keep pace with rapid

changes in technique, and of the fact that some Manuals dealing with very broad and complex questions do not as yet contain sufficient information to justify regarding the work of the Special Autonomous Working Parties as completed, it was desirable in the former case to take the necessary steps to ensure that the Manuals were brought up to date and in the latter case to prolong the mandate of the Special Autonomous Working Parties concerned as the most appropriate bodies for continuing the work undertaken."

At the request of the Director of the C.C.I.T.T., the delegate of ARGENTINA gave some explanations concerning his proposal.

The delegate of POLAND recalled his own proposal to amend the second paragraph of section 3.2 to ensure that work was continued on the Manuals that were not yet ready, such as those of GAS 5, GAS 3 and GAS 4. He supported the proposal by the delegate of Argentina.

The amendment proposed by the delegate of Argentina was *adopted*.

The delegate of UKRAINE thought that one way of improving the technical assistance supplied to developing countries was to train specialists, in other words, to set up training centres in various countries. He thought it would suffice if the experts sent out to provide that training remained in the centres for a maximum of three years; the specialists trained by them would be able to take over. It had been noted, however, that some experts stayed on in the centres for about 10 years. The C.C.I.T.T. and the I.T.U. should look into the matter.

The CHAIRMAN said that the C.C.I.T.T. Secretariat would take note of the comments by the delegates of Poland and Ukraine.

Referring to document AP IV/5 (report by the Director of the C.C.I.T.T. on the work of the Plan Committees during the 3rd C.C.I.T.T. Study Group period), the delegate of GABON asked whether the proposals relating to the Plan Committee meetings would be submitted to the present Plenary Assembly.

The Director of the C.C.I.T.T. replied that the programme of C.C.I.T.T. meetings and invitations for Plan Committee meetings would be examined at a subsequent plenary meeting.

As there were no further comments on the Polish proposal, the report of Committee D was unanimously *approved* as amended.

The Director of the C.C.I.T.T. thanked the Assembly for the interest it had shown in the technical assistance supplied by the C.C.I.T.T. and for having recommended its extension. He added that the staff of the C.C.I.T.T. Secretariat would have to be increased in consequence, but that that was a matter for the Administrative Council.

The CHAIRMAN thanked the Chairman, Vice-Chairman and members of Committee D for the excellent work they had done. [*Applause.*]

## **2. Approval of the minutes of the 1st and 2nd plenary meetings**

### *Minutes of the 1st plenary meeting (document AP IV/105)*

Mr. BESSEYRE, Senior Counsellor of the C.C.I.T.T., said that the second paragraph on page 4 should read as follows: "The Secretary-General of the I.T.U. suggested that the

Charter Study Group, which would be meeting in February 1969, should draw the attention of the forthcoming Plenipotentiary Conference to the difficulty of interpreting No. 13 of the Convention."

The delegate of the U.S.S.R. considered that the paragraph concerned was quite unacceptable since the Plenary Assembly was not empowered to give instructions to the Charter Study Group; such instructions could be issued only by the Administrative Council. Nor could the Charter Study Group make proposals on the principles applied, since its terms of reference were confined to redrafting existing texts. He pointed out that under No. 200 of the Convention the plenary assemblies of the International Consultative Committees had to observe the rules of procedure included in the General Regulations annexed to the Convention.

The delegate of IRELAND pointed out that item 2 of the agenda related only to the approval of Minutes and that discussion on questions that had already been dealt with should not be re-opened.

The delegate of FRANCE, speaking as Chairman of the Charter Study Group agreed in principle with the delegate of the U.S.S.R. and proposed a compromise solution: the difficulties encountered in interpreting the Convention and the General Regulations should be included in an annex which would mention the various views expressed on the question of voting by proxy. The administrations would thus be able to consider the matter and draw their own conclusions.

The delegate of the REPUBLIC OF SOUTH AFRICA pointed out that "South Africa (Republic of)" should be replaced by "Central African Republic" in the appendix to the Minutes (page 7).

The Minutes of the 1st plenary meeting were *approved*, subject to the above amendments.

#### *Minutes of the 2nd plenary meeting (document AP IV/107)*

The delegate of POLAND said that on page 8, paragraph 2, the words "the delegates of Poland, the U.S.S.R." should be replaced by "the delegate of the U.S.S.R.". Moreover, the following should be added at the end of the paragraph concerned: "The delegate of Poland emphasized that work on the GAS 5 Manual had not been concluded. It was even a moot point whether the results obtained so far should be published. However, since the Manual concerned had already been issued it should be made quite clear that it was no more than a provisional document and that GAS 5 would continue to work on the Manual."

The Minutes of the 2nd plenary meeting were *approved*, subject to the above amendments.

### **3. Report of Committee A (Working methods and organization of Study Groups)(document AP IV/115)**

Mr. WILLIAMS (United Kingdom), Chairman of Committee A, introduced the Committee's report, explaining that draft Resolution D-1 annexed to the document had not yet been examined by the Committee for lack of time.

He pointed out that the heading "A. Working methods" should come just before section A.1, and that the preamble should be amended to read:

"After a discussion which had been limited in time but which revealed the desire to improve the efficiency of the C.C.I.T.T. and to seek budgetary economies, the Committee took the report on the meeting of Chairmen and Vice-Chairmen held in Geneva in June 1968 (document AP IV/7) and the proposals from administrations contained therein, as a basis for its own report. The other documents mentioned above were considered, but not in detail."

He then proposed to the Assembly to examine the report section by section and indicated a slight amendment in the last sentence of section A.4 (replace "may" by "might").

The delegate of the UNITED STATES, referring to section A.1, wondered whether the C.C.I.T.T. Secretariat would request a summary of each contribution in all cases or whether it would request one only if it considered that such a summary would be of practical interest. Mr. Williams replied that the former solution would give rise to too much correspondence and that the summaries would be useless in some cases. He therefore proposed that the sentence "If no summary is submitted, the Secretariat of the C.C.I.T.T. shall ask for one" be deleted.

The delegate of the U.S.S.R. thought it would be very useful to attach a summary to every contribution and therefore suggested that the words "whenever such a summary is of practical value" be deleted and the second paragraph of A.1 left as it stood.

The delegate of the United States agreed.

After an exchange of views between Mr. WILLIAMS, the delegates of AUSTRALIA, BRAZIL, the U.S.S.R., CANADA, and the delegate of the Netherlands speaking as CHAIRMAN OF STUDY GROUP X, the Assembly *approved* the proposal.

Replying to the delegate of TURKEY, who felt there was some contradiction between sections A.1 and A.2 and asked what measures might be taken if replies contained more than 2500 words, Mr. Williams thought it preferable to leave the provisions concerned as they stood.

Subject to the amendments adopted by the Assembly, sections A.1 to A.5 were *adopted*.

Mr. Williams proposed that the last sentence in section A.6 be amended to read: "It will be sent out so that administrations receive it at least one month before the opening of the meeting concerned."

The delegate of Australia suggested that the word "meeting" be replaced by "study period", but the delegate of BELGIUM pointed out that such a change might be a source of difficulties when a Study Group set up Working Parties. The proposal was withdrawn.

Section A.6 was *adopted*, subject to the amendment proposed by Mr. Williams.

In section A.7, Mr. Williams proposed the addition of the following sentence: "The contributions sent by administrations to the C.C.I.T.T. Secretariat shall be distributed to all members registered with the Study Group concerned."

The delegate of TURKEY suggested that "the Study Group concerned" be replaced by "the I.T.U."

The delegate of POLAND supported that proposal. Such a procedure would facilitate the work of the Study Groups since all administrations would receive all contributions

and would be able to decide, with a full knowledge of the circumstances, whether to participate in the work of the various Study Groups. Participation in meetings might thereby be limited and the work of the Study Groups accelerated.

The delegate of the U.S.S.R. requested some clarifications and Mr. Williams repeated his proposal. He added that it was in accordance with officially established practice and that if all the documents were sent to all Members of the I.T.U., one might wonder what the job of the Study Groups was.

The delegate of Turkey pointed out that administrations might wish to register to participate in the work of all the Study Groups.

The DIRECTOR OF THE C.C.I.T.T. drew attention to the financial implications and to the increase in the work of the C.C.I.T.T. Secretariat and the General Secretariat which would result from the system proposed by the delegate of Turkey.

The delegate of Turkey made it clear that only one copy of each contribution need be sent to each administration.

The delegate of the PHILIPPINES wondered whether the contributions could be published in the *Telecommunication Journal*.

The Director of the C.C.I.T.T. replied that the matter should be submitted to the General Secretariat. He added that each number of the Journal would then become an enormous volume.

The delegate of Poland wondered whether it would not be possible to adopt the method applied by the C.C.I.R., which was to send all contributions to all Members of the Union. He asked the Secretary-General of the I.T.U. to give his opinion.

The SECRETARY-GENERAL OF THE I.T.U. recalled that it was the constant concern of the Administrative Council to keep down expenditure. He thought that in the case of the C.C.I.T.T. it was preferable to send contributions only to those administrations which were interested in them.

The Director of the C.C.I.T.T. thought the matter should be submitted to all Members of the Union and not only to those represented at the present Plenary Assembly. However that might be, he felt that administrations should request only a few copies of Study Group documents.

Like the delegate of Turkey, the delegate of UKRAINE considered that one copy of contributions to Study Groups should be sent to each country.

The delegate of PAKISTAN, speaking as CHAIRMAN OF COMMITTEE C, drew attention to the financial implications of the proposed procedure, and mentioned as an example that 2750000 pages had been printed for the present Assembly.

The CHAIRMAN asked the Assembly whether, in view of the information and comments by the Secretary-General of the I.T.U., the Director of the C.C.I.T.T. and the Chairman of Committee C, it approved the proposal by Mr. Williams.

Mr. Williams suggested the following new draft for his proposal: "The contributions shall be distributed to all Members registered with the Study Group concerned."

Section A.7 was *adopted* subject to the addition of the sentence suggested by Mr. Williams.

Mr. Williams then introduced sections A.8 and A.9, together with annex A-1, explaining that the C.C.I.T.T. Secretariat would amend the annex in the light of the recent discussions.

Sections A.8 and A.9 were *adopted*.

Mr. Williams introduced section B of the report (page 10 of document AP IV/115), pointing out that the second paragraph should be amended to read: "In cases of urgency, or if the necessary authority is granted by the Plenary Assembly, a Study Group meeting may decide that the procedure for provisional approval be applied to a draft Recommendation which has been unanimously accepted by the administrations and recognized private operating agencies represented at that meeting."

After a long discussion of the various sections of Part B of Committee A's report, in which the delegates of BRAZIL, ARGENTINA, the U.S.S.R., the Secretary-General of the I.T.U. and the Director of the C.C.I.T.T. took part, the delegate of Canada requested that a new draft text for Part B be examined at the following plenary meeting.

It was so *decided*.

*The meeting rose at 13.35 p.m.*

## NINTH PLENARY MEETING

**Thursday, 24 October 1968, 9.30 a.m.**

*Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)

### *Subjects discussed*

1. United Nations Day
2. Report of Committee A (continued)

### *Document Nos.*

AP IV/111 and 115

### **1. United Nations Day**

The CHAIRMAN, on declaring the meeting open, recalled that it was United Nations Day. "Our Assembly", he said, "is the confirmation of the spirit of co-operation which inspires the United Nations and we are happy to be able, through the I.T.U., to contribute to its work for peace and human betterment which are the dream of all mankind." He then gave the floor to the Secretary-General of the I.T.U.

The SECRETARY-GENERAL OF THE I.T.U. said that the United Nations Charter had been signed in San Francisco in 1945; it had issued from a spirit of co-operation which at present expressed itself best in the field of technical assistance and co-operation, which had been a perfectly normal part of I.T.U. activities since its foundation. [*Applause.*]

### **2. Report of Committee A**

Mr. M. B. WILLIAMS, Chairman of Committee A, resumed his introduction of the Committee's report, pointing out that the new text for page 10 of document AP IV/115, relating to the procedure for provisional recommendations, was contained in document AP IV/127.

The delegate of the UNITED STATES OF AMERICA requested that an asterisk be placed after the word "administrations" (in the paragraph following paragraph b), with a footnote reading "and recognized private operating agencies".

Document AP IV/127, thus amended, was unanimously *adopted*.

Mr. M. B. Williams introduced Part C (separation of the final meetings of the Study Groups from the Plenary Assembly itself) of the report by Committee A (document AP IV/115, page 11).

After a lengthy discussion in which the delegates of NIGERIA, U.S.S.R. and MALAYSIA, Mr. Williams, the DIRECTOR OF THE C.C.I.T.T., the Secretary-General of the I.T.U. and the delegates of DENMARK, CEYLON, AUSTRALIA, URUGUAY, TURKEY, CANADA, FRANCE, CAMEROON, ITALY, GABON, FEDERAL REPUBLIC OF GERMANY, GHANA, UNITED KINGDOM, MALI, SPAIN, IRELAND and POLAND took part, it was *decided*:

- 1) that the Vth Plenary Assembly be held in Geneva in the same conditions as previous Assemblies;
- 2) that paragraph 11.c of Resolution No.1 (Additional rules of procedure of the C.C.I.T.T.) be *amended* to read as follows:

"c) These reports shall be submitted as soon as possible and in any case not less than *two* months before the opening of the Plenary Assembly in the working languages used by the Plenary Assembly";

- 3) to *replace* Part C of the Report by Committee A by a new text (annexed hereto);
- 4) to *entrust* the study of the matter to the team of experts mentioned in Annex D-1.

Mr. M. B. Williams then introduced Part D (Organization of Study Groups) of the Report by Committee A.

After a discussion in which the delegates of CANADA, SWEDEN, SWITZERLAND, UNITED STATES OF AMERICA, TURKEY, ETHIOPIA, AUSTRALIA, U.S.S.R., NETHERLANDS, DENMARK, ITALY and BELGIUM, and Mr. Williams and the DIRECTOR OF THE C.C.I.T.T. took part, it was *decided*:

- 1) to *place* the second and third paragraphs of Part D, which were general in nature, at the end of the report;
- 2) to *approve* points a, b, c, d and e;
- 3) to *approve* point f, replacing "adjustment" by "adaptation" in the English text;
- 4) to *approve* point g, deleting the words "ad hoc" in item 4 of the English text;
- 5) to *approve* point h;
- 6) to leave point i *in abeyance* (for "g" in the French text read "i") pending the report by Committee B and taking into account the intention of the C.C.I.R. to request the creation of a Joint C.C.I.T.T./C.C.I.R. Study Group;
- 7) to *delete* the sub-section relating to the Special Autonomous Working Parties since that question had already been settled by the adoption of the report of Committee D;
- 8) to *approve* the establishment of a new Special Study Group D, amending the reasons therefor, as follows:

“The introduction of time-division switching (and signalling) and of transmission by pulse code modulation in telephony, and studies in the same field, etc....”, (the rest of the text unchanged);

9) to approve the section entitled “Working Parties”.

*The meeting rose at 13.45 p.m.*

## ANNEX

### **New text of part C of the Report by Committee A**

#### **Separation of the final meetings of the Study Groups from the Plenary Assembly itself**

It was recognized that the work of the C.C.I.T.T. would probably be more efficient if the final Study Group meetings were separated from the Plenary Assembly itself, provided the final Study Group meetings were held in Geneva. It would be well to try out such a system, for example on the occasion of the Vth Plenary Assembly.

However, countries which do not play a regular part in Study Group activities feel that the association of the final Study Group meetings with the Plenary Assembly gives them the opportunity of taking part in the work of the Study Groups and this opportunity would be lost if the meetings were separated from the Plenary Assembly. This drawback could be partly remedied if the duration of the Plenary Assembly were increased, for example to three weeks. The additional week could be used for a more thorough examination of Study Group reports, or a semi-official meeting could be organized at which the Chairmen would summarize the work of their respective Study Groups during the preceding study period and explain the reasons for the decisions proposed by them.

Committee A was unable to agree on a change in existing practice. It considered that study of this problem should be continued, possibly by referring it to the team of experts mentioned in annex D-1.

## **TENTH PLENARY MEETING**

**Friday, 25 October 1968, 9.00 a.m.**

*Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)

### *Subjects discussed*

1. Report of Committee A (continued)
2. Report of the “Books” Working Party
3. Report on C.C.I.T.T. activities between the IIIrd and IVth Plenary Assemblies
4. Draft Resolution on space communications
5. Minutes of the 3rd, 4th, 5th and 6th Plenary Meetings

### *Document Nos.*

- AP IV/115  
AP IV/124  
AP IV/1  
AP IV/111  
AP IV/116, 117, 129 and 125

### **1. Report by Committee A (Working methods and organization of Study Groups) (continued)**

Mr. WILLIAMS (United Kingdom), Chairman of Committee A, resumed the examination of the report and introduced the draft Resolution contained in annex D-1 (page 15 of document AP IV/115) proposing to set up a study team of experts to study the organization



and methods of work of the C.C.I.T.T. The text had been prepared by a drafting group but Committee A had been unable to examine it.

Without wishing to comment on the substance of the question, the DIRECTOR OF THE C.C.I.T.T. noted that the Plenary Assembly—which could itself have designated the experts (as had been the case in the C.C.I.R.) without going outside its terms of reference—had preferred to leave the matter to the Administrative Council. He hoped that the latter would kindly consult him before selecting candidates.

Various amendments were proposed to the first paragraph of the operative part (last paragraph on page 15), and after a long discussion between the delegates of SWITZERLAND, CANADA, U.S.S.R., AUSTRALIA, FRANCE, ITALY, UKRAINE, NIGERIA, TURKEY, CEYLON, POLAND, IRELAND, PAKISTAN, MALI, Mr. Williams and the Director of the C.C.I.T.T., it was *decided* to take a vote on the number of experts to be included in the team and on a new text proposed by Mr. Williams relating to the qualifications of the experts (see annex hereto).

It was *decided* by 49 votes to four, with two abstentions, that the team of experts should be composed of ten members.

The new text proposed by Mr. Williams was *adopted* by 51 votes to two, with two abstentions.

It was understood that the experts should organize their work as they pleased and could request the advice of specialists in various fields.

The delegates of U.S.S.R., Canada, Ireland, Poland, THE CHAIRMAN, and the Director of the C.C.I.T.T. took part in the discussion on the remainder of the text, which was unanimously *approved*.

The Assembly unanimously *approved* the amended draft Resolution contained in annex D-1 to document AP IV/115.

It then *approved* part E (C.C.I.T.T. Books) of the report of Committee A.

The Assembly unanimously *adopted* Committee A's report as a whole.

The CHAIRMAN congratulated Mr. Williams, the drafting groups and all who had taken part in the work of Committee A. [*Applause.*]

## 2. Report of the "Books" Working Party

Mr. H. VAN LOMMEL (Netherlands), Chairman of the "Books" Working Party, introduced his Working Party's report (document AP IV/124) which was unanimously *adopted*.

The C.C.I.T.T. Secretariat would make the necessary consequential amendments to Resolution No. 4 (*Blue Book*, Volume I, page 193).

The CHAIRMAN congratulated Mr. Van Lommel and his Working Party.

## 3. Report on C.C.I.T.T. activities between the IIIrd and IVth Plenary Assemblies

The DIRECTOR OF THE C.C.I.T.T. introduced his report (document AP IV/1) to the Plenary Assembly. Referring to document production, he expressed his pleasure at the close and trustful co-operation between the common services of the General Secretariat and the C.C.I.T.T. Secretariat.

The SECRETARY-GENERAL OF THE I.T.U. thanked him for his kind remarks and mentioned the difficulties encountered in the recruitment of specialist staff at peak periods (in the translation services in particular).

After statements by the delegates of the U.S.S.R. and the UNITED STATES OF AMERICA, the Plenary Assembly unanimously *adopted* the progress report submitted by the Director of the C.C.I.T.T.; with regard to section 7, it *took note* of the staffing difficulties encountered by the C.C.I.T.T. and *decided* that the matter be referred to the Administrative Council.

#### **4. Draft Resolution on space communications submitted by the French Administration**

Mr. SUEUR, Head of the French Delegation, introduced the draft resolution contained in document AP IV/111. Since the short time available precluded a thorough discussion of the matter, he proposed simplifying the text considerably (page 5 of the document) by deleting the first paragraph of the consideranda, paragraphs 1, 2 and 3 of the operative part, replacing "organization" by "integration", and adding a new paragraph calling upon the team of experts on the organization of the C.C.I.T.T. to study this problem.

After a long discussion between the delegates of the U.S.S.R., JAPAN, ITALY, the UNITED KINGDOM, the UNITED STATES OF AMERICA, CANADA and FRANCE, and a statement by the SECRETARY-GENERAL OF THE I.T.U., all in favour of the idea, it was *decided* to set up a drafting group under the chairmanship of Mr. Sueur (France), composed of the Heads of Delegation of the U.S.S.R., the United Kingdom and the United States, to prepare a draft resolution to be submitted for approval to the 11th Plenary Meeting, on the understanding that the relevant resolutions adopted by the Administrative Council would be mentioned in that text.

#### **5. Minutes of the 3rd, 4th, 5th and 6th plenary meetings**

##### *Third plenary meeting* (document AP IV/116)

*Approved*, subject to the following amendment to the English version: page 4, 5th paragraph of section 5, read:

"Page 9—line 10, *replace* the words "each end" by "either end".

##### *Fourth plenary meeting* (document AP IV/117)

*Approved*, subject to the following amendments:

A) At the end of the 1st paragraph of Section 1 (Report by Study Group II), *add* the following: "In presenting the part of the Report by Study Group II relating to the draft Telephone Regulations, Mr. RÜTSCHI said that any amendments that might be necessary could be made during the following study period, as was the case with the Telegraph Regulations prepared by Study Group I."

B) In the last line of the 2nd paragraph, *replace* "Mr. Rütschi" by "Study Group II".

C) In the 4th paragraph, *replace* "the delegates of the United Kingdom and the U.S.S.R." by "the delegate of the U.S.S.R. and Mr. Hawkins".

*Fifth plenary meeting* (document AP IV/129)

*Approved*, subject to the following amendment:

On page 4, *replace* the statement by the E.B.U. observer by the following:

"The E.B.U. observer thanked the Chairman and the members of Study Group IV for the work done on sound programme circuits and assured them of the wholehearted co-operation of the E.B.U. in forthcoming studies."

*Sixth plenary meeting* (document AP IV/125)

*Approved*, subject to the following amendments:

A) Page 2, section 2, 1st paragraph, last line, *replace* "English and French texts" by "English text".

B) Page 2, section 2, 1st paragraph, *add* the following sentence: "The Assembly *decided* that the corrected English text should be considered as the approved text. The French and Spanish texts should be brought into line with it."

C) Page 2, section 2, 2nd paragraph, 2nd line, *replace*: "new Question D/X" by "Question 9/X (amended)".

D) Page 4, third paragraph, *replace* the statement of the delegate of the United Kingdom by the following:

"The delegate of the United Kingdom suggested that the introduction of two new signalling systems, each used on a regional basis by agreement between the countries concerned, raised the problem of defining their sphere of application and their interworking with existing standardized systems. It could be settled by preparing a new draft recommendation on the lines of Recommendation Q.7."

E) Page 4, 2nd paragraph, penultimate line, *delete* "United Kingdom".

*The meeting rose at 12.55 p.m.*

## ANNEX

**Text of the new paragraph proposed by Mr. Williams and adopted by the Plenary Assembly  
to replace the first operative paragraph of the draft resolution  
contained in annex D-1 (Resolution No. 7) of the Report by Committee A (document AP IV/115)**

"to set up as soon as possible a study team of 10 experts (two from each region) possessing knowledge and experience of the C.C.I.T.T. activities and of contemporary methods of organization at senior management level in telecommunication administrations, with the following terms of reference:"

**ELEVENTH PLENARY MEETING****Friday, 25 October 1968, at 3 p.m.***Chairman:* Lieutenant-Colonel R. R. ALBARIÑO (Argentine Republic)*Subjects discussed**Document Nos.*

- |   |                        |
|---|------------------------|
| 1. Draft Resolution annexed to document AP IV/111 (Problems relating to the organization of work of C.C.I.T.T. and C.C.I.R. Study Groups concerning space telecommunications) | AP IV/111              |
| 2. Report of Committee C  | AP IV/10, 132          |
| 3. Report of Committee B  | AP IV/128              |
| 4. Establishment of Study Groups and Working Parties and appointment of their chairmen and vice-chairmen  |                        |
| 5. Acceptance of invitations for Study Group meetings   | AP IV/6, 120, 121, 130 |
| 6. Date and place of the Vth Plenary Assembly of the C.C.I.T.T.   |                        |
| 7. Miscellaneous  | AP IV/126, 123         |
| 8. Taking of oath by the new Director of the C.C.I.T.T. and closure of the IVth Plenary Assembly of the C.C.I.T.T.  |                        |

**1. Space telecommunications**

On the invitation of the CHAIRMAN, Mr. SUEUR (France), Chairman of the small group set up that morning to amend the draft resolution annexed to document AP IV/111, read out the following new draft:

"The IVth Plenary Assembly of the C.C.I.T.T.:\*

*aware of* the important and urgent problems raised by the integration of space communications within existing systems, which will continue to develop;

*considering*

that the I.T.U. and its organs are the sole bodies within the United Nations system qualified to issue recommendations relating to such integration;

that the Administrative Council of the I.T.U. has adopted Resolutions 636 and 637 concerning the role and the activities of the I.T.U. in the field of space communications;

that the C.C.I.T.T. IVth Plenary Assembly has resolved to set up a team of experts to study the problems of organization within the C.C.I.T.T.,

*decides*

to request the Director of the C.C.I.T.T., in co-operation with the Director of the C.C.I.R., to advise the Secretary-General in his task of determining the basic direction of future work of the permanent organs of the I.T.U. in the field of space communications to ensure wider co-operation with all the administrations and agencies concerned with space communications."

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\*Resolution No. 9

The CHAIRMAN thanked the members of the drafting group for having found a good and rapid solution to the question.

## 2. Report of Committee C

Mr. MOHAMED (Pakistan), Chairman of Committee C, presented the Committee's Report contained in document AP IV/132.

After correcting some wrong numbers in the various documents examined by Committee C, he explained that the expenditure to be envisaged depended on the number and composition of the Study Groups, the number of meetings held by them and the place where the Vth Plenary Assembly was to be held; Committee C had had to make certain assumptions and had not been able to take a possible increase in staff strength into account. The draft budget for the 1968–1971 period was therefore only provisional and higher amounts should perhaps be considered.

The DIRECTOR OF THE C.C.I.T.T. said that once again the Plenary Assembly had felt unable to apply the General Regulations annexed to the 1965 Convention, i.e. to approve the estimated financial requirements of the C.C.I.T.T. for the period 1968–1972. He trusted that a solution would one day be found to that difficulty and that, without encroaching on the prerogatives of the Administrative Council, the Plenary Assembly would be able to give him an authoritative opinion on expenditure for meetings and staff requirements. Otherwise, a provision which proved to be inapplicable should be deleted from the General Regulations.

He added that, unlike the expenditure of I.T.U. conferences, the expenses incurred by Plenary Assemblies were not kept separate but were included in the annual budget of C.C.I.T.T. meetings and that it was for the Administrative Council to check whether the total expenditure in 1968 had remained within the established limits.

The Report of Committee C was *approved* and the Assembly took note of the statements by the Director of the C.C.I.T.T.

The CHAIRMAN thanked Mr. Mohamed and the members of Committee C for the work done. [*Applause.*]

Mr. Mohamed, for his part, thanked the Director of the C.C.I.T.T., Mr. Wiltgen (Brazil), Vice-Chairman of Committee C, and all those who had helped him in his work.

## 3. Report of Committee B (document AP IV/128)

Mr. SUEUR (France), Chairman of Committee B, introduced the Committee's report, together with proposals for the setting up of new Joint Working Parties and changes in existing Joint Working Parties. The last sentence in the first paragraph on page 10 of the report, regarding the appointment of Chairmen and Vice-Chairmen for the Costs Working Parties, should be deleted.

The Assembly *approved* the proposals submitted to it and appointed Mr. Ohlmer (Federal Republic of Germany) and Mr. McDonald (Canada) as Chairman and Vice-Chairman respectively of the new NRD Working Party (New data networks).

The delegate of ARGENTINA pointed out that Question A/I should be added to the Questions to be studied by Special Study Group A.

Further to an observation by Mr. BITTER (F. R. of Germany), Chairman of Study Group XIV, it was understood that Question F/XIV was to be studied "with", not "by", the LTG Joint Working Party.

As the result of an exchange of views between Mr. Bitter, Mr. Sueur and members of the C.C.I.T.T. Secretariat, it was decided to delete the asterisk after Question E/XIV and to amend the note to read: "Of interest to Study Groups I, IX, X, XIV".

Mr. ERIKSEN (Denmark), Chairman of Study Group III, said that the list of particularly urgent questions of Study Group III on page 10 of the English text should be aligned with the French text.

The delegate of the U.S.S.R. said that although the task of the C.C.I.T.T. had increased since the IIIrd Plenary Assembly, he did not think that the growth in the number of questions to be studied was always justified. Unfortunately, the present Plenary Assembly was unable to consider the merits of the questions set for study, although their proliferation led to additional expenditure and might delay the study of the more important questions. He hoped that the Vth Plenary Assembly would be able to study ways of limiting the number of questions to those which were the most urgent and important.

He then referred to the programme of Study Group and Working Party meetings (annex 2 to the report, page 48), drawing attention to Resolution No. 1 (Volume I of the *Blue Book*) which stated that Study Groups and Working Parties should meet, in principle, once in the period between the end of a Plenary Assembly and the Study Group meetings held prior to the opening of the following Plenary Assembly. He pointed out that that was far from being the case with, for example, Study Groups XI and XIII. He proposed that the Assembly should not approve the proposed programme.

The DIRECTOR OF THE C.C.I.T.T., replying to a question by the delegate of the CENTRAL AFRICAN REPUBLIC, explained that the words "*en liaison avec*" (in conjunction with) (page 50 of the report) meant that the meetings of the Costs (Africa) Working Party would be held as far as possible at the same time and place as the meetings of the Plan Committee for Africa.

In reply to the comments by the delegate of the U.S.S.R., the Director of the C.C.I.T.T. pointed out that in any case the Study Group chairmen classified the questions in order of importance and urgency, the less important questions being left till the end or even postponed to the following period. The proposed programme was merely an outline and would be re-examined in detail by the chairmen and the C.C.I.T.T. Secretariat. Referring to Resolution No. 1, he said that it was applicable only in so far as was practicable, as indicated by the words "in principle". Even the Resolution adopted on that subject by the Administrative Council could not be strictly applied to all Study Groups. It was often a more effective way of concluding a study to hold two meetings of one week at Geneva separated by a few months rather than a single meeting lasting two weeks, while the expenditure posted to the Union budget was exactly the same.

He therefore suggested that annex 2 be left as it stood, pending the final proposals to be submitted by agreement between the Chairmen and the C.C.I.T.T. Secretariat, who would both try to reduce the number of meetings as far as possible.

The delegate of the U.S.S.R. said that it was for the Assembly to decide on the importance of the Questions to be studied and to give appropriate instructions to the Director and the Study Groups of the C.C.I.T.T. In his view, Resolution No. 1 and the Administrative Council Resolution were of a mandatory character. Hence, either the proposed

programme should be rejected or the resolutions adopted on the number of C.C.I.T.T. meetings should be amended.

The delegate of AUSTRALIA wondered whether the programme was compatible with the budget estimates. He also wondered whether the number of Joint Working Parties (*Blue Book*, Volume I, page 211) should be changed.

Mr. Sueur pointed out that the definition of "urgent questions" was given on page 2 of the report under consideration. He added that the classification of questions in order of urgency or importance could be left to the Study Group chairmen. Citing space telecommunications as an example, he pointed out that urgent questions would become more and more numerous and that the study of questions by correspondence—to reduce the number of meetings to be held—did not give satisfactory results.

The Director of the C.C.I.T.T. explained that the programme never included more than two meetings of each Study Group in the period between two Plenary Assemblies; the third meeting mentioned in some cases was, in fact, the final meeting prior to the Plenary Assembly. As for the importance of questions, the final decision on that point was obviously a matter for the Plenary Assembly.

In reply to the delegate of Australia, he said that the C.C.I.T.T. had always worked and would continue to work within the limits of the credits authorized by the Council and that the IVth Plenary Assembly had set up more or less the same number of Joint Working Parties as the IIIrd Plenary Assembly.

With reference to Question L/III, the delegate of ARGENTINA said that a Latin America Working Party would likewise study the matter.

The delegate of SAUDI ARABIA said that an Asia Working Party would also participate in the study of Question L/III.

The delegate of the FEDERAL REPUBLIC OF GERMANY wished to know which Study Group was in charge of the Joint Working Party set up to study Question 9/X.

Mr. Sueur replied that the controlling Study Group would be specified by agreement between the C.C.I.T.T. Secretariat and the Chairmen concerned.

After a long exchange of views between the Director of the C.C.I.T.T. and the delegates of Australia, the U.S.S.R., BIELORUSSIA, the Federal Republic of Germany, CANADA and the NETHERLANDS, the Assembly agreed to the proposal by the delegate of Canada to mention in the Minutes that "the Plenary Assembly has *approved* the report by Committee B, together with its annex 1, and has taken note of the information contained in annex 2 to the report in question".

Mr. Sueur then paid tribute to the devotion of the members of Committee B who had greatly helped him in his work. [*Applause.*]

The CHAIRMAN congratulated Mr. Sueur and those who had assisted him on the excellent work done. [*Applause.*]

#### **4. Establishment of Study Groups and Working Parties and appointment of their Chairmen and Vice-Chairmen**

The DIRECTOR OF THE C.C.I.T.T. introduced the proposals made by the meeting of Heads of Delegation for the establishment of Study Groups and Working Parties, and the appointment of their Chairmen and Vice-Chairmen.

	<i>Chairman</i>	<i>Vice-Chairman</i>
Study Group I	Mr. A. GOMES (United States)	Mr. S. PARAMOR (United Kingdom)
Study Group II	Mr. R. RÜTSCHI (Switzerland)	Mr. N. BIEZEN (Netherlands)
Study Group III	Mr. L. BÜRTZ (France)	Mr. D. ROBERTSON (Canada)
Study Group IV	Mr. J. VALLOTON (Switzerland)	Mr. J. KIIL (Denmark)
Study Group V	Mr. H. RIEDEL (F. R. of Germany)	Mr. G. GRATTA (Italy)
Study Group VI	Mr. WALTERS (United Kingdom)	Mr. A. BLANCHI (France)
Study Group VII	Mr. DUCOMMUN (Switzerland)	
Study Group VIII	Mr. G. BAGGENSTOS (Switzerland)	Mr. I. SAVITZKY (Ukraine)
Study Group IX	Mr. R. BROWN (Australia)	Mr. B. KUBIN (Czechoslovakia)
Study Group X	Mr. A. JANSEN (Netherlands)	Mr. D. FAUGERAS (France)
Study Group XI	Mr. A. JOUTY (France)	Mr. TCHOUTA MOUSSA (Cameroon)
Study Group XII	Mr. F. KROUTL (Czechoslovakia)	Mr. F. T. ANDREWS (United States)
Study Group XIII	Mr. A. NEWSTEAD (Australia)	Mr. S. KUHN (Poland)
Study Group XIV	Mr. H. BITTER (F. R. of Germany)	Mr. VINOGRADOV (Poland)
Study Group XV	Mr. F. JOB (France)	Mr. D. GAGLIARDI (Italy)
Study Group XVI	Mr. J. BILLEN (United Kingdom)	Mr. SERRURE (Belgium)
Study Group Sp.A	Mr. J. RHODES (United Kingdom)	Mr. V. N. VAUGHAN (United States)
Study Group Sp.C	Mr. R. KAISER (F. R. of Germany)	Mr. MATSUMOTO (Japan)
Study Group Sp.D	Mr. R. BOYD (United States)	Mr. G. BAUDRIN (Belgium)
C.M.T.T.	Mr. ANGEL (France)	Mr. W. SIMPSON (United Kingdom)
World Plan	Mr. M. BIGI (Italy)	Mr. O. H. MOHAMED (Pakistan)



	<i>Chairman</i>	<i>Vice-Chairman</i>
Africa Plan	Mr. L. DIA (Senegal)	Mr. I. GIRMAW (Ethiopia)
Asia Plan	Mr. A. ZAÏDAN (Saudi Arabia)	Mr. S. FUJIKI (Japan)
Latin America Plan	Mr. A. C. NÚÑEZ (Mexico)	Mr. R. SEVERINI (Argentina)
Europe Plan	Mr. T. NOAT (France)	Mr. H. DIETRICH (Poland)
GAS 3	Mr. Aoud (Morocco)	Mr. G. WALLENSTEIN (United States)
GAS 4	Mr. F. L. BENTLEY (Canada)	Mr. M. LINDEN (Sweden)
GAS 5	Mr. H. LONGEQUEUE (France)	Mr. E. GALLI (Argentina)

Co-ordination Group No. 1: Chairman: Mr. LAIRD (United States)

These proposals were unanimously *approved*.

The Director of the C.C.I.T.T. informed the Assembly that the heads of delegation had not designated Chairmen for the Joint Working Parties (with the exception of the NRD Working Party) or for the internal working parties of Special Study Group A. It was for the Plenary Assembly to appoint them.

The delegate of BIELORUSSIA suggested that the Chairmen of the Joint Working Parties be appointed by the Chairmen dealing with the questions concerned, by agreement with the Director of the C.C.I.T.T.

The delegate of the UNITED KINGDOM supported that proposal.

The proposal was *approved*.

The delegate of the UNITED STATES proposed the following terms of reference for co-ordination Group No. 1:

1. *Terms of reference*—co-ordinate the study of questions having a bearing on the development of the world-wide semi-automatic and automatic telephone network assigned to Study Groups II, IV, XI, XIII and Study Groups XII and XVI, as may be appropriate, giving due regard to the requirement for co-operatively establishing a schedule for the study of such questions during the Plenary period.

## 2. *Methods of work*

- a) The Chairman or any Study Group Chairman shall call a meeting of the Group with the agreement of the Director of the C.C.I.T.T., at a place to be mutually agreed and at a time required to accomplish its work.
- b) If such meeting is held in Geneva, the C.C.I.T.T. will provide the Secretariat. If held elsewhere, the administration (or recognized private operating agency) will provide the Secretariat.

- c) The requirement for interpretation should be kept to a minimum.
- d) Minutes of each meeting would be prepared.
- e) Reports would be sent to the Director for transmittal to administrations or recognized private operating agencies.
- f) A report of the work of the Group would be made to the next Plenary Assembly.

The terms of reference proposed by the delegate of the United States were supported by the delegates of the FEDERAL REPUBLIC OF GERMANY, CANADA and AUSTRALIA, and *approved*.

### **5. Acceptance of invitations for Study Group meetings**

The DIRECTOR OF THE C.C.I.T.T. read out the following list of invitations received for various Study Group and Working Party meetings:

Canada—Study Groups I, II and III;  
 Federal Republic of Germany—Study Group V;  
 Japan—Study Group XV and Special D (PCM);  
 Paraguay—Plan Committee for Latin America (Asunción, July 1969);  
 Iran—Plan Committee for Asia (Teheran);  
 Nigeria—Plan Committee for Africa (Lagos);  
 Italy—World Plan Committee.

The delegate of POLAND stated that his country intended to invite the Plan Committee for Europe and that the official invitation would no doubt be received by the C.C.I.T.T. Secretariat within a few months.

The Director of the C.C.I.T.T. suggested that, if the Assembly agreed, the proposal should be noted, pending the official invitation.

The delegate of GABON drew attention to document AP IV/130 from the Administration of Nigeria, and wondered whether all the countries concerned would agree to send representatives to Lagos.

After a discussion in which the delegates of NIGERIA, the CONGO (Brazzaville), MALI, the Director of the C.C.I.T.T. and the Secretary-General of the I.T.U. took part, the delegate of Gabon wished to know what the situation would be if, apart from Nigeria, another country were to invite the Plan Committee for Africa to hold its meeting on its territory.

The Director of the C.C.I.T.T. said that when invitations from different countries reached the C.C.I.T.T. Secretariat simultaneously without having been accepted by a Plenary Assembly, he requested administrations to indicate their preferences. If the invitation from Nigeria, which was directed without restriction to all Members of the Union, were accepted by the C.C.I.T.T. Plenary Assembly, any other invitation would be declined.

The delegate of ARGENTINA then stated that his administration intended to invite GAS 5 to meet in Buenos Aires. The official invitation would be sent in due course.

The delegate of FRANCE said that his administration proposed to invite Special Study Group D to meet in Paris, in 1969 or 1970.

At the suggestion of the CHAIRMAN, all the invitations were *accepted in principle*, provided that appropriate credits were granted by the Administrative Council.

#### **6. Date and place of the Vth Plenary Assembly of the C.C.I.T.T.**

In view of the decision of the present Assembly not to dissociate the final Study Group meetings from the Plenary Assembly, the DIRECTOR OF THE C.C.I.T.T. proposed that the Vth Plenary Assembly be held in Geneva. In any case, no invitation had been received from any administration. The Vth Plenary Assembly could in principle be held in the first half of 1972. The exact dates would be fixed in due course, with the agreement of the Administrative Council, and taking into account the progress made with the studies.

#### **7. Miscellaneous**

The delegate of ARGENTINA reminded the Assembly that it still had to examine document AP IV/126, which originated from his administration and dealt with amendments to be made to document AP IV/30 (Transmission units).

The delegate of the UNITED KINGDOM felt that, despite the considerable technical implications of document AP IV/126, it was inexpedient to discuss it at the present meeting.

The delegate of CANADA agreed.

The delegate of the United Kingdom drew attention to document AP IV/123, which he did not think had been taken into account in the discussion concerning Study Group VII. He therefore proposed that the document in question be likewise noted and left for examination in due course.

In reply to a query by the delegate of the NETHERLANDS, Mr. BESSEYRE, Senior Counsellor of the C.C.I.T.T., said that the draft Recommendation contained in document AP IV/30 had been amended and adopted by the Plenary Assembly. In document AP IV/126, the Argentine Administration had proposed some additions thereto, relating to the definition of the decibel. However, the additions concerned did not form part of the Recommendation and were to be studied in due course.

The delegate of the U.S.S.R. felt there had been a misunderstanding. The proposals contained in document AP IV/30 were not at all intended to make a single unit compulsory immediately. He suggested that it be recorded in the Minutes that the Assembly had taken note of the substance of the question and that the Study Groups should bear the matter in mind during the forthcoming study period.

The proposal by the delegate of the U.S.S.R. was *approved*.

#### **8. Taking of oath by the new Director of the C.C.I.T.T. and closure of the IVth Plenary Assembly of the C.C.I.T.T.**

Mr. ROUVIÈRE solemnly took oath as newly elected Director of the C.C.I.T.T. before the Plenary Assembly, which was honoured by the presence of General Teglia, Secretary of State for Communications.

The delegate of the CONGO (Brazzaville) thereupon said that the election of Mr. Rouvière simply reflected the feelings of the participants in the Assembly towards him. The delegate of the Congo thanked the Chairman, the Director of the C.C.I.T.T. and his assistants. He wished them a pleasant return journey and asked them to convey the fraternal greetings of the Congo and Africa as a whole to their respective countries. [*Applause.*]

The delegate of the UNITED KINGDOM, speaking on behalf of all the delegates, thanked the Chairman of the Plenary Assembly and the Argentine Administration who had done everything to ensure the success of the IVth Plenary Assembly. The delegates had had occasion to appreciate the generosity of the host country both in the meeting room and during their leisure hours. He asked the Chairman to thank the organizers and the secretariat of the conference for their valuable services. He went on to express his gratitude to the Director-General of the C.C.I.T.T., the Secretary-General of the I.T.U., and the Senior Counsellor of the C.C.I.T.T., Mr. Besseyre, who would soon be leaving the I.T.U. and to whom he wished a long and happy retirement. He congratulated the Chairman on the masterly way in which he had directed the discussions, and hoped to have the opportunity at forthcoming meetings of renewing the bonds of friendship he had forged with the members of the Argentine Administration. He had no doubt that all the delegates shared that wish. [*Applause.*]

The delegate of TURKEY thanked the Chairman, who had played such a prominent part in the success of the work. He also thanked the Chairmen and Vice-Chairmen of the Study Groups. The work done would be appreciated in its full measure by all administrations. He thanked in particular the Secretary-General of the I.T.U., the Director of the C.C.I.T.T. and the C.C.I.T.T. Secretariat for their unceasing efforts. Words failed him when it came to expressing his gratitude to the host administration which had so kindly and generously welcomed the Assembly and permitted its participants to admire that wonderful country, the Argentine Republic. [*Applause.*]

The delegate of SENEGAL, speaking on behalf of his own and of the other African countries, thanked the Chairman for his valuable services to the Assembly and expressed his appreciation of the warm welcome and countless kindnesses enjoyed by the participants in the IVth Plenary Assembly. [*Applause.*]

The DIRECTOR OF THE C.C.I.T.T. recalled that close bonds had existed between the Argentine Administration and himself ever since the Plenipotentiary Conference at Buenos Aires in 1952. As delegate of France at that time he had already had the opportunity of appreciating Argentine hospitality; that excellent impression had been strengthened in 1965, and again at the beginning of 1968, and finally by the present Assembly. He recalled that when he had been elected Director of the C.C.I.T.T. in 1956, he had taken the oath before the late lamented Dr. Andrada, Secretary-General of the I.T.U. Once again it was before a Chairman provided by the Argentine Administration that he had just taken the oath. He took the opportunity to thank the Assembly once again for the trust it had placed in him.

The organization of the IVth Plenary Assembly of the C.C.I.T.T. was worthy of praise in every respect and he wished to thank the Organization Committee, which had arranged unparalleled conditions of comfort and congeniality. He then paid tribute to the Chairman of the Assembly, Lieutenant-Colonel Albariño, who had become his very good friend and had given proof of quite exemplary competence, authority, courtesy and conscientiousness in the course of discussions that had sometimes been very difficult.

He then thanked General Teglia, Secretary of State for Communications, who directed telecommunication services in Argentina with such competence, and had honoured the Assembly by his presence at the opening and closing meetings.

The fact that the discussions had sometimes been somewhat animated should be taken as evidence of the eagerness of the delegates and the members of the Secretariat to improve international telecommunications and, in consequence, relations between peoples. The remarkable work done by the IVth Plenary Assembly would mark a decisive stage in the

history of telecommunications and it would be a credit to the Argentine Republic to have made so weighty a contribution to that remarkable success. [*Prolonged applause.*]

The CHAIRMAN then addressed the Assembly as follows:

“Mr. Secretary of State, Director of the C.C.I.T.T.,  
Ladies and Gentlemen,

“We now close the IVth Plenary Assembly of the International Telegraph and Telephone Consultative Committee, over whose deliberations I had the honour to preside.

“As you know, one of the basic purposes of the Union, according to the Convention, is to harmonize the action of its Members for the improvement and rational use of all types of telecommunications. It can be asserted that this organization, which has already existed for over a hundred years, is today a living example of the excellent results that can be obtained through the co-operation of nations, when a creative spirit exists and is applied to progressive and peaceful ends.

“The proceedings of our IVth Plenary Assembly have been inspired and guided by these principles and I consider that the success which has crowned its work is essentially the result of the harmony and goodwill shown by all concerned.

“When the Assembly opened I said that we had an arduous programme of work before us and called on you to tackle it with optimism. Today, after two weeks of hard work, we can give expression to the great satisfaction that we all feel at having risen to the occasion and realizing that our work will promote the expansion of world telecommunications.

“The subjects discussed were both numerous and highly relevant, and the ideas and knowledge which you, Gentlemen, contributed were most valuable.

“The discussions—which were always cordial in tone and conducted with understanding—cleared up the most difficult points of the subjects discussed and also, perhaps more significantly, revealed that the countries Members of the I.T.U. are always receptive to constructive dialogue and the exchange of knowledge and ideas necessary for the steady progress of science and technique.

“We brought to this Assembly the fruit of our experience and found the common ground necessary for bringing it quickly and efficiently to the knowledge of the administrations concerned.

“Suitable solutions and procedures have also been found to streamline the organization and methods of work of the C.C.I.T.T., with the prospect of very positive and encouraging results for the future development of services and for relations between countries.

“There is no doubt that the progressive mission of the C.C.I.T.T. has been confirmed once again and that a contribution has thus been made towards strengthening the International Telecommunication Union.

“I am deeply touched by the compliments paid by the delegates who have just spoken and by the Director of the C.C.I.T.T.

“When I had the honour of taking over the chairmanship of this august Assembly, I asked for your co-operation and advice, although I was sure of it in any case.

“Nevertheless, I must make it quite clear that although I expected your constant support I never imagined that it would be so effective and, what is more noteworthy, that it would be offered so cordially. Cordiality has in fact been the keynote of this outstanding conference.

“The days I have spent in your company have been a great experience for me which I shall never forget.

"The Argentine Republic is happy to have offered the venue for this meeting of delegates from all over the world and I should like to emphasize how valuable this contact with our distinguished guests over the past few weeks has been to our engineers and officials. The Argentine Administration will always remember these days.

"Gentlemen, in closing the IVth Plenary Assembly, I should first like to pay tribute to all those officials and specialists who have preceded us and with their enthusiasm and will-power have built up the C.C.I.T.T., which has proved to be one of the most authoritative international organizations in the field of telecommunications.

"I wish to extend my heartfelt thanks to the Vice-Chairmen of the Plenary Assembly and to the Chairmen and Vice-Chairmen of the Study Groups, the Chairmen of the Working Parties, the Chairmen of the Committees of the Plenary Assembly, and to all participants, for the excellent work done and for the complete and accurate reports submitted, which have enabled us to complete our work within the established time-limits.

"I also wish to thank very specially the officials and staff of the specialized secretariat and the minute-writers, translators and interpreters who, with their habitual ability and accuracy, greatly contributed to the smooth progress of the discussions and to mutual understanding between the delegates.

"I likewise wish to thank the typists, operators, document reproduction and distribution staff, telegraph and telephone operators, and messengers on their efficient and dedicated work during this Assembly.

"I also hope most sincerely that the friendly relations that have been established between various delegates will continue to thrive after they have returned to their respective homes.

"Gentlemen, I now offer my best wishes for the progress of your countries, the future of the International Telecommunication Union, the personal success of each one of you, creative peace in the world, and a pleasant journey back to your homes.

"I hereby declare closed the IVth Plenary Assembly of the International Telegraph and Telephone Consultative Committee." [*Prolonged applause.*]

*The meeting rose at 8.40 p.m.*

## ANNEX TO THE MINUTES OF THE PLENARY MEETINGS

### Statements issued by certain delegations

*Bielorussian Soviet Socialist Republic, People's Republic of Bulgaria, Hungarian People's Republic, Mongolian People's Republic, People's Republic of Poland, Ukrainian Soviet Socialist Republic and Union of Soviet Socialist Republics*

(document AP IV/109)

The delegations of the above-mentioned countries, recalling the statement they made when signing the International Telecommunication Convention (Montreux, 1965) declare that the representatives of Chiang Kai-Shek present at the IVth Plenary Assembly of the C.C.I.T.T. do not represent China and, for this reason, have no right to speak on its behalf.

The only representatives of the people of China are the delegates to the I.T.U. and its permanent organs appointed by the Central Government of the People's Republic of China.

*Republic of China*

(document AP IV/112)

With reference to the document AP IV/109 of 17 October 1968, my delegation wishes to state that the Government of the Republic of China is the only legally constituted government of China and is recognized as such by the United Nations and all its Specialized Agencies, including the International Telecommunication Union. In accordance with the provisions of paragraph 12 of Article 2 of the I.T.U. Convention, my delegation has every right to attend the Plenary Assembly of C.C.I.T.T. as the legal representative of China.

This statement will equally apply to any other derogatory declaration on the representation of China that may be made in the course of this Plenary Assembly.

*United States of America*

(document AP IV/113)

As concerns document AP IV/109, published 17 October 1968, the delegation of the United States of America wishes to affirm that the United Nations and all its specialized agencies, including the International Telecommunication Union, recognize the Government of the Republic of China as the only legally constituted government of China. The delegation of the Republic of China is therefore clearly entitled to represent China in the Plenary Assembly of the C.C.I.T.T. This position accords with that repeatedly taken by the competent political organs of the United Nations.

*Socialist Republic of Roumania*

(document AP IV/122)

With reference to the reservation made at the time of signing the Montreux Convention (1965), the Roumanian delegation declares that the delegates from Taiwan at the IVth Plenary Assembly of the C.C.I.T.T. do not represent China.

Only the Government of the People's Republic of China can appoint representatives to speak on behalf of the Chinese people.

The Roumanian delegation regrets that in spite of the universal nature of the I.T.U., some countries are still excluded from the work of the Union.

*Cameroon, Central African Republic, Congo (Brazzaville), Ethiopia, Gabon, Ghana, Kenya, Liberia, Mali, Malagasy Republic, Nigeria, Rwanda, Senegal, Tanzania and Togo*

(document AP IV/131)

The delegations of the above-mentioned countries state that they deplore the presence at the IVth Plenary Assembly of the C.C.I.T.T. of the representatives of the Government of the Republic of South Africa.

*Republic of South Africa*

(document AP IV/133)

With reference to document AP IV/131 of the 24th October 1968, the delegation of the Government of the Republic of South Africa wishes to state that in accordance with the provisions of paragraph 12 of Article 2 of the I.T.U. Convention, it has every right to attend the Plenary Assembly of the C.C.I.T.T.



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# **REPORT OF THE DIRECTOR OF THE C.C.I.T.T. ON ACTIVITIES BETWEEN 1964 AND 1968**

*(as approved by the IVth Plenary Assembly on 25 October 1968)*

## **1. Introduction**

This report covers the third period of activity of the C.C.I.T.T., from 26 June 1964, the closing date of the IIIrd Plenary Assembly in Geneva, to 17 June 1968, when this report was drafted, i.e. several weeks before the opening of the IVth Plenary Assembly to be held from 23 September to 25 October 1968.

It is hardly probable that in this short time any new development will occur to entail amendments to the report. If that should happen, however, an additional report will be issued.

During this third period, the Plenipotentiary Conference held in Montreux in 1965 drafted a new International Telecommunication Convention, the effects of which on C.C.I.T.T. activities are described in various parts of the report.

In the corresponding reports which I submitted to the IIInd and IIIrd Plenary Assemblies, I expressed certain personal views on the operation of the services of the I.T.U. which these Assemblies were not willing to endorse. This time I have tried to avoid these obstacles, and I hope I have succeeded.

## **2. Study Group and Working Party activities**

2.1 The IIIrd Plenary Assembly retained the existing 16 ordinary Study Groups and three special Study Groups. It also upgraded the Regional Plan Sub-Committees to Committees and set up a Plan Committee for Europe and the Mediterranean Basin.

The Study Groups set up seven joint Working Parties each connected with several Study Groups and established a new system of special autonomous Working Parties (GAS) to draft documentary handbooks for the developing countries. Five such working parties were set up and have, by and large, completed the tasks assigned to them.

1964-1968 was a period of particularly intense activity for the Study Groups and Working Parties. The following table gives an initial idea of this activity, a full list of meetings being annexed.

<i>Year</i>	<i>Number of meetings</i>	<i>Number of meeting days</i>
1964 (2nd half)	4	27
1965	25	197
1966	40	278
1967	51	461
1968 (1st half)	25	144
	<u>145</u>	<u>1107</u>

or an average of 277 meeting days a year for the four-year period; this does not include meetings with very few participants on such specific matters as the drafting of texts or definitions.

The work of the ordinary Study Groups, the Special Study Groups and the Joint Working Parties is described in the preliminary reports submitted to the IVth Plenary Assembly.

The work of the Plan Committees is described in document AP IV/4 and that of the technical assistance Working Parties in document AP IV/5.

A perusal of these documents will give an accurate idea of the C.C.I.T.T.'s activities, but it may be useful briefly to describe their general trends.

The C.C.I.T.T. continued to work on a world-wide scale, thanks to the participation of an increasing number of countries in a wide variety of regions. As far as the development of the most advanced techniques is concerned, it pursued the study of problems raised by the introduction of satellite communications in the world telecommunication network, the study of rapid-rate data transmission, using special switched networks where necessary, and the study of pulse code modulation and the fundamental changes which the generalization of this method of transmission may introduce into the very concept of networks. Finally, it is able to submit to the IVth Plenary Assembly specific proposals for the standardization of a new telephone signalling system (system No. 6), which has a great future before it.

With regard to operational and tariff questions, the C.C.I.T.T. revised the Telegraph and Telephone Regulations in pursuance of Resolution No. 36 of the Montreux Conference, drafted new Instructions for the International Telephone Service for world-wide use and undertook a study on the simplification of international accounts which may have far-reaching effects not only on accounting and tariff-fixing methods, but also on traffic routing and equipment design.

The various Plan Committees were also very active, and devoted considerable attention to artificial satellite communications. Finally, the Special Autonomous Working Parties have been able to submit draft handbooks which, it is hoped, will have the same success in the developing countries as the first manual on national automatic networks.

2.2 The annexed list of meetings shows that it proved impossible once again for some Study Groups to meet only once during the period 1964–1968. However, without wishing to anticipate the decisions of the IVth Plenary Assembly on the methods of work of the C.C.I.T.T., I would venture to express the view that the need for these more frequent meetings is no longer questioned by anyone. Indeed, the Montreux Conference itself

recognized the value of contacts between group Chairmen for the solution of certain delicate problems, and considerably relaxed the rule on dealing with questions by correspondence (No. 793 of the General Regulations annexed to the Convention). In any case, I am sure that the IVth Plenary Assembly will take all the necessary steps to limit the number of meetings to be held in the period 1968–1972 as far as possible.

Another interesting point emerging from the list of meetings held during the study period now drawing to a close is that, aside from regional Plan meetings, which have to be held in the regions concerned, only 36 out of 141 meetings, or approximately 25%, were held outside Geneva. In that connection, I have endeavoured to carry out the directives of the Administrative Council and the Plenipotentiary Conference (Montreux Resolution No. 19).

I feel obliged to point out, however, that meetings held outside Geneva, provided their number is kept within reasonable limits, can be an enriching experience for delegates and the Secretariat, both from the technical and the human points of view. Moreover, it is at present difficult to find premises in Geneva for large meetings, and I have sometimes been glad to accept invitations which have enabled me to avoid these difficulties.

In general, I should like to express my gratitude to the administrations and private operating agencies which have invited the C.C.I.T.T., have provided it with excellent working conditions and have shown it a generosity which has considerably reduced the additional cost of holding the meetings away from Geneva.

I think that the same policy should be pursued during the forthcoming period, with perhaps even fewer meetings held outside Geneva, on the understanding that invitations can be finally accepted only to the extent that the Administrative Council grants the appropriate credits.

### 3. Publication of printed volumes of the C.C.I.T.T.

During its third period of activity, the C.C.I.T.T. published the following volumes:

#### 3.1 *Results of the work of the IIIrd Plenary Assembly, Geneva 1964* (Blue Book, except for Volume V bis, published as a Red Book).

- Volume I — List of participants; Minutes of the meetings of the Plenary Assembly; Reports, Resolutions, Opinions; Study Groups in 1964–1968; List of Questions to be studied in 1964–1968; Means of expression.
- Volume II — General tariff principles; Costing; Lease of circuits; Telephone Operation and Tariffs; Telegraph Operation and Tariffs.
- Volume III — Line transmission.
- Volume IV — Maintenance.
- Volume V bis — Additions and amendments to texts in *Red Book*, Volume V. Telephone (Red) transmission quality, local lines and telephone sets.
- Volume VI — Telephone signalling and switching.
- Volume VII — Telegraph technique.
- Volume VIII — Data transmission.
- Volume IX — Protection.

### 3.2 *General plans for the development of the international network*

- Plan for Latin America (Santiago, Chile, 1965)
- Plan for Europe and the Mediterranean Basin (Paris, 1966)
- Plan for Asia and Oceania (Melbourne, 1966)
- Plan for Africa (Addis Ababa, 1967)
- World Plan (Mexico, 1967)

### 3.3 *Other publications*

- List of definitions for data transmission
- Instructions for the international telephone service

## 4. Collaboration with other I.T.U. organs and other international organizations

Within the I.T.U., C.C.I.T.T. staff have assisted various committees and other bodies operated by the General Secretariat (Co-ordination Committee, Appointments and Promotions Board, Contracts Committee, Editorial Board of the *Journal*, Staff Pension Fund Committee, Staff Sickness Insurance Fund Committee). They also provided all the necessary information for the post-grading experts.

There has been constant collaboration with the C.C.I.R., especially in joint C.C.I.T.T./C.C.I.R. bodies (Special Study Group C on circuit noise, Study Group for television transmissions, Plan Committees). The C.C.I.T.T. was represented at the XIth Plenary Assembly of the C.C.I.R. (Oslo, 1966) by Mr. Besseyre, Mr. Lalou and myself.

The C.C.I.T.T. has had occasion to work with the following international organizations:

- the Joint International Committee for the protection of telecommunication lines (C.M.I.) for which we provide the secretariat;
- the International Electrotechnical Commission (I.E.C.);
- the International Organization for Standardization (I.S.O.);
- the World Meteorological Organization (W.M.O.);
- the International Civil Aviation Organization (I.C.A.O.);
- the European Broadcasting Union (E.B.U.);
- the International Radio and Television Organization (I.R.T.O.);
- the International Conference on Large Electric Systems (C.I.G.R.E.).

## 5. Preparation for the IVth Plenary Assembly

During its IIIrd Plenary Assembly (Geneva, 1964), the C.C.I.T.T. received an invitation for its IVth Plenary Assembly from the delegation of the Argentine Republic. The invitation was accepted in principle and the final decision was taken by the Administrative Council during its 1966 session.

Negotiations were at once begun with the inviting administration which set up an Organizing Committee for the IVth Plenary Assembly, to be held at Mar del Plata. Problems relating to the organization of the Assembly and the agreement to be concluded with the Argentine Government were dealt with by correspondence and during two visits to Argentina, one by the Administrative Officer of the C.C.I.T.T. in November 1967 and the other by myself in March 1968. In this connection, I should like to pay a tribute to the Organizing Committee for the amount of work it has done and the spirit of trustful co-operation that it has always shown. Needless to say, the inviting Government has agreed to apply all the provisions of the relevant resolutions and decisions of the Administrative Council and the Plenipotentiary Conference, particularly with regard to the free facilities provided for in Montreux Resolution No. 19.

It is self-evident that, despite the generosity of the Argentine Government, the Mar del Plata Assembly will cost considerably more than a similar meeting in Geneva. This additional cost would have been less if the final meetings of the Study Groups could have been dissociated from the Plenary Assembly proper (this question will be discussed in Mar del Plata next October). At the same time, I feel bound to stress the importance I attach to holding a Plenary Assembly on the South American continent for the first time. I believe that this step should be regarded as the starting-point of extremely valuable collaboration between the Latin American countries and the I.T.U.

With regard to future C.C.I.T.T. Plenary Assemblies, it will be advisable to comply with the provisions of Montreux Resolution No. 19, according to which these Assemblies should normally be held at the seat of the Union.

## 6. Volume of work

After this brief description of C.C.I.T.T. activities in 1964–1968, I feel I should give a few figures which give striking testimony to the way in which the work has increased from one study period to another.

### a) *Volume of work*

	<i>1st period (1956–1960, 46 months)</i>	<i>2nd period (1960–1964, 40 months)</i>	<i>3rd period (1964–1968, 50 months)</i>
Meeting days	628	808	1107
Contributions published	1000	1500	2015
Circulars issued	120	140	160

### b) *Participation*

	<i>End of 1st period (end 1960)</i>	<i>End of 2nd period (mid-1964)</i>	<i>End of 3rd period (mid-1968)</i>
Registered members of Study Groups	2615	4496	8000 (approx.)
Private operating agencies taking part	20	25	39
Industrial organizations taking part	22	61	83

## **7. Secretariat resources**

To meet this substantial increase in activities, which was already foreseeable in 1964 and which has since accelerated, I included in the estimate of financial needs for 1964–1968 the creation of 15 new posts in the C.C.I.T.T. Secretariat. Of these 15 posts, the Administrative Council was able to give me only two, one for an engineer post for data transmission and the other for a draughtsman.

This means that the C.C.I.T.T. Secretariat is in a really critical situation. Despite their competence and devotion to duty, which I cannot emphasize strongly enough, the staff is absolutely overwhelmed with work, and the position can only become worse if, as is probable and irrespective of any measures that the Plenary Assembly may take with regard to the methods of work of the C.C.I.T.T., the volume of work increases further in the forthcoming years. That is why I felt obliged once again to include in the estimate of future needs, which I am submitting to the IVth Plenary Assembly (document AP IV/10), expenditure relating to a substantial strengthening of the C.C.I.T.T. specialized Secretariat.

I very much hope that the Plenary Assembly, while as usual fully respecting the prerogatives of the Administrative Council, will find a way of making the situation I have just described known to the Council. It seems to me that it is possible for the Assembly to do this, since under No. 781 of the General Regulations annexed to the Montreux Convention, it has to approve an estimate of the financial needs of the Committee for submission to the Administrative Council.

Apart from this staffing crisis, which is causing me the greatest anxiety, the C.C.I.T.T. is encountering some difficulties in the production and circulation of its documents, the number and volume of which is constantly increasing. This work is done by the Common Services of the General Secretariat, and the C.C.I.T.T. has no direct control over it. I have nothing but praise for the competence and efficiency of the Common Services, but they are sometimes overwhelmed by the flow of documents from the C.C.I.T.T., which makes by far the greatest demands on them. Although this has led to some delays in the publication of documents, I can assure the Plenary Assembly that we have succeeded in overcoming the difficulties and will continue to do so in future, thanks to the close and trustful co-operation prevailing between the two bodies.

To conclude on a more optimistic note, I would add that a certain number of C.C.I.T.T. posts were regarded by the Administrative Council at its 1968 session. Unfortunately, the regrading of higher posts was deferred until a later date, but the staff as a whole have been encouraged by the regrading which has taken place.

A more complete picture of the situation of the C.C.I.T.T. Secretariat is given in document AP IV/6.

## **8. The place of the C.C.I.T.T. within the I.T.U.**

In my 1964 report on activities, I expressed some apprehensions with regard to the future of the C.C.I.T.T. within the Union which fortunately proved to be unfounded. The Montreux Plenipotentiary Conference introduced no changes in the federal structure of the I.T.U., and the C.C.I.T.T.'s technical autonomy was maintained and, in a way, even strengthened. The existence of the Plan Committees, providing the Secretariat which is one of the C.C.I.T.T.'s most important functions, was officially recognized in the new

Convention. Finally, the powers of the Co-ordination Committee were extended, and this enables the Director of the C.C.I.T.T., as a member of the Committee, to take a more active part in managing the affairs of the Union.

## **9. Review of the organization and methods of work of the C.C.I.T.T.**

The organization and methods of work of the C.C.I.T.T. which have resulted from the decisions of its first three Plenary Assemblies seem to me to be satisfactory on the whole. Nevertheless, participants in the Committee's activities are concerned with the problem of how to deal with the constantly increasing volume of this work, and some of them have expressed the wish that a far-reaching debate on the question will take place at the IVth Plenary Assembly.

I thought that this debate might prove more productive if it were prepared by written consultations with administrations and private operating agencies. I therefore asked for and obtained some contributions on the subject which, although few in number, are extremely interesting. Most of the replies received suggested a meeting of Study Group Chairmen and Vice-Chairmen to sift the proposals for reorganization and to submit a summary of them to the Plenary Assembly.

I therefore took the initiative of inviting the Chairmen and Vice-Chairmen to meet in Geneva from 24 to 27 June 1968. Although this step was approved by some administrations, it was sharply criticized by others, which seem to have construed it as a device on my part to impose on the Plenary Assembly the point of view of the small number of countries from which the Chairmen and Vice-Chairmen are drawn. This is simply a misunderstanding, for the Chairmen and Vice-Chairmen will act, not as representatives of their countries, but as experts familiar with the work of the C.C.I.T.T. Moreover, they will of course confine themselves to submitting to the Plenary Assembly opinions intended to give it a clearer idea of the proposed reforms and to enable it to save time for taking any decisions it may deem appropriate, in the exercise of its full sovereignty.

The proposals received and the recommendations of the meeting of Chairmen and Vice-Chairmen are given in document AP IV/7.

## **10. Changes in the chairmanship of Study Groups**

There have been quite a few changes in the chairmanship of Study Groups since the IIIrd Plenary Assembly.

In Study Group XVI, Mr. H. Claeys (Belgium) replaced Mr. R. H. Franklin (United Kingdom), who retired; in Special Study Group C, Mr. R. Kaiser (Federal Republic of Germany) replaced Mr. H. Williams (United Kingdom), who also retired; in the Plan Committee for Africa, Mr. M. Mili, Secretary-General ad interim, is being replaced by Mr. L. Dia (Senegal); in the Plan Committee for Asia, Mr. S. Fajiki (Japan) replaced Mr. C. P. Vasudevan, who left the Indian telecommunication service. In the Joint Working Parties, Mr. Biehler (Federal Republic of Germany) replaced Mr. Schaaf of the same country, who was posted to other duties, and Mr. M. L. Benko (Hungary) replaced Mr. Wilcockson (United Kingdom), unfortunately deceased.

These are, of course, provisional appointments, and the IVth Plenary Assembly will have to take definitive steps in that regard. It will also have to deal with the resignations of some of the present Chairmen and Vice-Chairmen; although these resignations will be

a heavy loss for the C.C.I.T.T., they may facilitate the Plenary Assembly's task if it decides to change the organization of the Study Groups and Working Parties. I would, however, appeal to readers of this report not to interpret the foregoing sentence as a commitment on my part in favour of any form of reorganization: I am particularly anxious not to influence the Plenary Assembly's decisions in any way.

## 11. Conclusions

It is now for the IVth Plenary Assembly to draw conclusions from the studies carried out during the third period of C.C.I.T.T. activity, to define the future activities of that body, and to make any necessary changes in its structure and methods of work.

If on reading my report this Assembly is tempted to look back to the preceding one and even to the creation of the C.C.I.T.T., I think it will agree that the sum total of its achievements is extremely positive and encouraging. This undeniable success is due to all the telecommunications experts who are co-operating enthusiastically in the work of the C.C.I.T.T. At a time when my term as Director is drawing to its normal close, I want to convey to them how happy I have been to help them with their difficult task and to thank them for the trust they have always shown in me.

Whatever my fate after the IVth Plenary Assembly, I should like to conclude by expressing my deep attachment to the C.C.I.T.T. and my faith in the work which it will carry on for the advancement of international communications and for the establishment of closer links among all the peoples of the world.

*Director of the C.C.I.T.T.*  
J. ROUVIERE

## ANNEX

### C.C.I.T.T. meetings during the 3rd period of activity

(26 June 1964 to 23 September 1968)

*Year 1964 (second half)*

Date	Subject of the meeting	Place
28 Sept.-9 Oct.	Drafting Group for Volume VI of the <i>Blue Book</i>	Geneva
28 Sept.-1 Oct.	Working Party on maintenance programme	Geneva
6-9 October	Working Party on a new telegraph alphabet	Geneva
2-7 November	Working Party to revise the Instructions for the international telephone service	Madrid



Year 1965

Date	Subject of the meeting	Place
6–22 January	Drafting Group for Volume VI of the <i>Blue Book</i>	Geneva
2–4 February	Joint Working Party V/XV (Protection of powerfeeding installations and transistorized repeaters)	Geneva
15–26 March	WP XI/1 (Intercontinental signalling)	Geneva
29 March–8 April	Special Autonomous Working Party I (National automatic networks)	Geneva
29 March–9 April	Plan Committee for Latin America	Santiago
5–6 April	WP on 12-MHz systems	Geneva
7–9 April	WP on small coaxial pairs	Geneva
4–11 May	WP V/VI to draft the manual on protection against lightning	Rome
17–28 May	Drafting Group for Volume VI of the <i>Blue Book</i>	Geneva
14–18 June	WP IV/1 (Intercontinental maintenance)	Geneva
21–25 June	Special Study Group C (Noise)	Geneva
28 June–2 July	WP XIV/2 (Standardized test chart)	Geneva
7–10 September	WP XIII/2 (Theoretical statistical traffic studies)	Stockholm
13–17 September	WP IV/2 (Measuring equipment)	Geneva
13–24 September	WP XI/1 (Intercontinental signalling)	Stockholm
20–24 September	WP IV/4 (Network stability)	Geneva
27–30 September	WP IV/3 (Maintenance programme)	Geneva
6–15 October	Special Autonomous Working Party 5 (Economic conditions and telecommunication development)	Geneva
18–29 October	Drafting Group for Volume VI of the <i>Blue Book</i>	Geneva
25–29 October	Small Laboratory Working Party	Geneva
15–17 November	WP of Study Group XV (Small coaxial pairs and 12-MHz systems)	Geneva
15–19 November	Study Group VI (Protection and specifications for cable sheaths and poles)	Geneva
23 Nov.–3 Dec.	Special Study Group A (Data transmission)	Brussels
7–14 December	WP IX/2 (v.f. telegraphy)	Geneva
15–17 December	WP IX/1 (General questions of telegraph transmission)	Geneva

*Year 1966*

Date	Subject of the meeting	Place
10-18 January	GAS 2 (Local networks)	Geneva
7-11 February	WP 33/XV (Pulse code modulation systems)	Geneva
21 Feb.-2 March	GAS 3 (Economic and technical comparison of transmission systems)	Rabat
21 Feb.-2 March	Study Group VII (Definitions and symbols)	Geneva
7-11 March	Special Study Group C (Noise)	Geneva
15-17 March	WP 3/XIV (Channels for facsimile telegraphy)	Geneva
21 March-1 April	Plan Committee for Europe and the Mediterranean Basin	Paris
28 March-1 April	WP IV/5 (Maintenance instructions for new systems)	Geneva
13 April	GAS 1 (National automatic networks)	New York
14-22 April	Study Group XI (Telephone switching and signalling)	New York
25 April-3 May	Study Group XIII (Automatic and semi-automatic telephone networks)	New York
25-29 April	GAS 4 (Primary energy sources)	Geneva
25-29 April	WP ALP (New telegraph alphabet)	Paris
27-29 April	WP SYN (Synchronous telegraphy)	Geneva
2 May	Laboratory WP	Geneva
2-5 May	Study Group VIII (Telegraph apparatus and local subscriber lines)	Geneva
3-9 May	Study Group XII (Telephone transmission quality and local telephone networks)	Geneva
4-6 May	Special Study Group B (World automatic and semi-automatic telephone network)	New York
6-10 June	Study Group XVI (Telephone circuits)	Geneva
13-21 June	WP IV/1 (Maintenance of category B circuits)	Geneva
7-20 September	Plan Committee for Asia and Oceania	Melbourne

*Year 1966 (continued)*

Date	Subject of the meeting	Place
8–14 September	WP MRT (Message retransmission)	Melbourne
15–21 September	WP TGX (World telex and gentex routing and transmission plan)	Melbourne
22–26 September	WP EFF (Efficiency factor)	Melbourne
22 Sept.–4 Oct.	Study Group I (Telegraph operation and tariffs)	Melbourne
26–30 September	WP IV/3 (Routine maintenance programme; sound and television broadcasting circuits)	Geneva
25 Sept.–4 Oct.	GAS 2 (Local telephone networks)	Geneva
3–6 October	WP IV/2 (Measuring equipments)	Geneva
3–7 October	Study Group X (Telegraph switching)	Melbourne
17–19 October	WP LTG (Use of lines for telegraphy)	Geneva
19 October	WP 14/XV (Group, etc., pilots for data transmission)	Geneva
19–26 October	WP XI/1 (Signalling system No. 6)	Prague
20–24 October	WP on 12-MHz systems and WP on small coaxial pairs	Geneva
21–24 October	WP on companders	Geneva
25 Oct.–4 Nov.	Study Group XV (Transmission systems)	Geneva
7–16 November	Analysis Group of GAS 5	Geneva
14–23 November	WP IV/4 (Quality of the international network)	Paris
24 Nov.–2 Dec.	Study Group IV (Maintenance of lines, circuits and circuit chains)	Paris
28 Nov.–9 Dec.	Study Group II (Telephone operation and tariffs)	Geneva
12–16 December	Study Group III (General tariff principles—lease of telecommunication circuits)	Geneva
12–16 December	Joint WP V/VI (Drafting of handbook on protection from lightning)	Geneva

Year 1967

Date	Subject of the meeting	Place
16–20 January	GAS 4 (Primary power sources)	Geneva
16–20 January	WP XIII/2 (Theoretical statistical study of traffic)	Geneva
23–27 January	WP XIII/3 (Routing plan)	Geneva
23 Jan.–8 Feb.	Africa Plan	Addis Ababa
30 Jan.–2 Feb.	WP West African Cable	Addis Ababa
30 Jan.–7 Feb.	WP XIII/4 (Supervision of operation and maintenance)	Geneva
8–14 February	GAS 5 (Economic conditions and telecommunication development)	Geneva
15–24 February	WP of SG Sp.A (Interface and automatic answering)	Geneva
27 Feb.–3 March	WP of SG Sp.A (Maintenance)	Geneva
6–17 March } 7–16 March }	WP XI/1 (Intercontinental signalling)	Geneva
3–7 April	WP SG XII (Laboratory)	Geneva
3–19 April	SG V (Protection against electromagnetic dangers and disturbance)	Lisbon
6–14 April	WP XIV/1 (Facsimile apparatus). WP XIV/2 (Test chart and definitions)	Geneva
11–14 April	WP SG V/SG VI (Manual on protection against lightning)	Lisbon
17–21 April	SG VI (Protection and specification of cable sheaths and poles)	Lisbon
17–26 April	SG IX (Telegraph transmission)	Paris
8–19 May	WP II/2 (Instructions for the international telephone service)	Paris
16–26 May	WP II/3 (Telephone Regulations)	Paris
16–26 May	Drafting Group for Volume IV of the <i>Blue Book</i>	Copenhagen
29 May–13 June	WP on Revision of the Telegraph Regulations	Geneva
5–16 June	WP II/1 (International accounts for the automatic and semi-automatic service)	Karlsruhe
6–9 June	WP on Revision of the Regulations governing photo-telegraphy	Geneva
7–16 June	GAS 3 (Economic and technical comparison of transmission systems)	S. Francisco
12–16 June	WP of SG IV on IMCs	Geneva

Year 1967 (continued)

Date	Subject of the meeting	Place
14-16 June	SG X (Telegraph switching)	Geneva
19-23 June	SG XIV (Facsimile telegraphy: apparatus and transmission)	Geneva
21-30 June	GAS 1 (National automatic networks)	Tokyo
26-30 June	WP of SG XV (12-MHz systems and small diameter coaxial pairs)	Geneva
3-12 July	SG XI (Telephone switching and signalling)	Tokyo
6-12 July	WP XIII/1 (Effect of operating methods on specifications)	Tokyo
13-21 July	SG XIII (Automatic and semi-automatic telephone networks)	Tokyo
24-26 July	SG Sp.B (World automatic and semi-automatic telephone network)	Tokyo
14-26 September	Joint Meeting SG IV/SG XIII (Revision of the guiding principles for the maintenance of semi-automatic circuits)	Geneva
25 Sept.-6 Oct.	SG XV (Transmission systems)	Lisbon
27 Sept.-3 Oct.	WP IV/3 (Maintenance programme)	Geneva
4-10 October	WP IV/1 (Maintenance of category B circuits)	Geneva
10-23 October	WP XII (Telephone transmission quality and local telephone networks)	Geneva
17-27 October	GAS 2 (Local networks)	Geneva
24-26 October	WP SG XIV (Definitions)	Geneva
24-31 October	SG XVI (Telephone circuits)	Geneva
30 Oct.-15 Nov.	World Plan Committee	Mexico
6-10 November	WP IV/4 (International network stability)	Geneva
13-16 November	WP IV/2 (Measuring equipment)	Geneva
17-24 November	SG IV (Maintenance of lines, circuits and chains of circuits)	Geneva
20 Nov.-1 Dec.	WP XI/1 (Intercontinental signalling)	Florence
27 Nov.-12 Dec.) 13-15 December }	SG Sp.A (Data transmission)	Geneva
6-15 December	GAS 5 (Economic conditions and telecommunication development)	Geneva

*Year 1968 (first half)*

Date	Subject of the meeting	Place
15–19 January	WP II/2 (Instructions for the international service)	Geneva
22–26 January	WP II/3 (Telephone Regulations)	Geneva
29 Jan.–2 Feb.	WP II/4 (International television transmissions)	Geneva
5–16 February	WP II/1 (International accounting in automatic and semi-automatic operation)	Geneva
19–23 February	WP IV/5 (Maintenance instructions for new systems)	Geneva
26–27 February	WP XI/1 (Intercontinental signalling)	Geneva
26 Feb.–1 March	SG Sp.C (Noise)	Geneva
4–6 March	WP of SG XV on small coaxial pairs	Geneva
7–8 March	WP of SG XV on echo suppressors	Geneva
4–8 March	WP on automatic telegraph maintenance	Geneva
11–15 March	WP of SG XV on pulse code modulation systems	Geneva
18–22 March	SG VII (Definitions and symbols)	Geneva
18–29 March	WP on revision of the Telegraph Regulations	Geneva
25–29 March	WP on revision of the Telegraph Regulations (Photo-telegraphy)	Geneva
1–5 April	SG I (Telegraph operation and tariffs)	Geneva
22 April–3 May	Drafting Group for Volume IV	Geneva
6–10 May	GAS 3 Editorial Committee	Geneva
6–10 May	WP XIII/1 (Effect of operating methods on specifications)	Geneva
20–31 May	WP XIII/4 (Supervision of operation and maintenance)	Brussels
4–7 June	WP of SG IV on signalling between automatic measuring equipments	Geneva
6–7 June	SG III (General tariff principles)	Geneva
10–21 June	SG II (Telephone operation and tariffs)	Geneva
12–14 June	WP on Definitions for data transmission	Geneva
18–19 June	GAS 5 (Economic conditions and telecommunication development)	Geneva
24–27 June	Meeting of Study Group Chairmen and Vice-Chairmen	Geneva

**REPORT BY COMMITTEE A**

**WORKING METHODS AND ORGANIZATION**

**OF STUDY GROUPS**

*(as amended and approved by the IVth Plenary Assembly on 23 and 24 October, 1968)*

The following documents served as a basis for the work of Committee A:

- AP IV/7 — Report by the Meeting of C.C.I.T.T. Chairmen and Vice-Chairmen on C.C.I.T.T. working methods and the responsibilities of the Study Groups
- AP IV/60 — Scandinavian administrations: Co-ordination of maintenance questions
- AP IV/70 — Australia: Further comments on organization of C.C.I.T.T. Study Groups
- AP IV/71 — U.S.S.R.: Proposals to increase the work efficiency of the C.C.I.T.T.
- AP IV/72 — Belgium: Maintenance and service quality problems
- AP IV/97 — Belgium: Establishment of a special p.c.m. Study Group

After a general discussion which was limited by time but which revealed the desire to improve the efficiency of the C.C.I.T.T. and to seek budgetary economies, the Committee took the report on the meeting of Chairmen and Vice-Chairmen held in Geneva in June 1968 and the proposals of the administrations contained in this report (document AP IV/7) as a basis for its own report. The other documents quoted above were noted but could not be discussed in all detail.

It submitted the following proposals to the Plenary Assembly:

**A.—WORKING METHODS**

**Presentation of contributions to be published by the C.C.I.T.T. Secretariat**

**A.1 Summary question by question**

To facilitate the examination of contributions, each contribution shall be accompanied by a summary, drawn up question by question (or point by point). The contribution shall be followed by conclusions, whenever possible, in the form of draft recommendations.

If no summary is submitted, the Secretariat of the C.C.I.T.T. shall ask for one.

### *A.2 Limitation on length*

C.C.I.T.T. Resolution No. 1<sup>1</sup> (point III-3 c) recommends that a reply to any one question should not exceed 2500 words (five pages) or include more than three pages of figures.

It is fully realized that this Recommendation cannot apply to every reply, since some replies give a complete account of a question of a very broad scope.

However, the Director of the C.C.I.T.T. will press for observance of the provisions of Resolution No. 1 as far as the length of contributions is concerned by quoting, in particular, the text of point III-3 c of the Resolution, whenever contributions are requested.

It has been noted that certain contributions contain passages of a commercial nature; in cases of abuse, the Director could make cuts with the consent of the Study Group Chairman. The author of the contributions must be notified of these deletions.

### *A.3 Drafting of contributions*

Contributions should be concisely drafted, avoiding any unnecessary details, tables or statistics that make no direct contribution to the reply to a question. They should be clearly written with a view to being universally understood, that is, as codified as possible, using international terminology and avoiding the technical jargon peculiar to the author's country.

When a contribution deals with several questions, the questions should be separated so that the text of each question begins on a fresh sheet of paper (not on the back of a page).

### *A.4 Late contributions*

Resolution No. 1 asks that contributions be sent to the Director of the C.C.I.T.T. four months before the beginning of the meeting which they concern so that the Study Group members may receive copies two months before the beginning of the meeting.

Reduction of this latter period from two months to one was examined, which would make it possible to fix the final date for submission at three months, but as administrations need two months in which to study contributions, it is proposed that the present rule be retained.

It should be noted that the four-months rule may have to be waived in the case of a contribution issued following a meeting of another Study Group or of a body outside the C.C.I.T.T.

As for the action to be taken on contributions sent in late, it is for the meeting concerned to decide whether, and the extent to which, they should be considered. Late contributions, even although they would be of substantial help in preparing the reply to a question, might not be considered, with the result that the conclusion of a study may be deferred to the next meeting.

### *A.5 Speeding up the publication of contributions*

Contributions should be drafted in one of the working languages of the Union and sent in four copies to the C.C.I.T.T. Secretariat; one of these copies will be sent immediately to the Chairman by the C.C.I.T.T. Secretariat.

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<sup>1</sup> *Blue Book*, Volume I, pages 184 to 191.



It is recommended to send a translation of contributions in another working language to the C.C.I.T.T. Secretariat.

Contributions should be submitted on very white paper (A4 format) and in very black type. If the format is not A4, the text on each page should not exceed A4 format.

The top half of the first page should be left blank.

Despatch of contributions to Study Group members by air mail will be generalized.

Administrations should reduce their requests for contributions to the strict minimum.

## **Organization of the work of Study Groups**

### *A.6 Working plan of meetings*

Before each meeting, a draft working plan listing the questions to be examined and the subject of each one shall be prepared by the Chairman, with the help of the Secretariat. This working plan shall indicate the point reached in the study of each question and the relevant documents.

The working plan will include a day-to-day timetable indicating which questions are to be studied. The working plan must be regarded as subject to change in the light of the rate at which work proceeds, but Chairmen should try to follow it as far as possible. It will be sent out so that it may arrive at least one month before the opening of the meeting concerned.

### *A.7 Increasing efficiency*

Maximum efficiency will be achieved by allowing a considerable degree of flexibility in the organization of the work of each Study Group.

Each Study Group will be able to decide:

- whether to set up a temporary working party during a meeting to study a specific question (or group of questions);
- or to set up a working party to study some questions between meetings of the Study Group;
- or to instruct one rapporteur or a team of rapporteurs, appointed in person by the Study Group, to draft a reply to a question for submission to the Study Group.

The members of this last-mentioned team of rapporteurs, under the authority of a leader, will choose whatever method of work they consider most appropriate: correspondence or private meetings of the team.

The team of rapporteurs would then submit a report to the Study Group for examination at the next Study Group meeting.

This method of working in small teams of rapporteurs has already been used on a number of occasions and is particularly recommended. It is easy to organize for Study Groups which have to hold two meetings during the period between two consecutive Plenary Assemblies, since the first meeting can set up the groups of rapporteurs to study each question and give them any directives the Study Group wishes to issue.

Otherwise, the Chairmen will themselves try to designate rapporteurs for a question. The members of the Study Group will be informed thereof by letter.

Contributions to the questions under study shall be distributed to all members registered with the Study Group concerned.

#### A.8 *Preparation of replies*

If, from the contributions received, it appears that there is agreement among administrations on the lines of the reply to a question (or part of a question), the Chairman, assisted by the Secretariat, may submit a draft reply, possibly accompanied by a draft Recommendation.

If the contributions received reveal a variety of proposals or points of view, the Secretariat should, if possible, prepare a table summing up the different positions of administrations on the question and the point reached in the study. The table should be sent to members of the Study Group, if possible in advance of the meeting (Resolution No. 1—III.4 b).

#### A.9 *Questions of common interest*

Common questions can be dealt with by one of the following methods, depending on the circumstances:

a) Questions of broad scope interesting two or three Study Groups can be studied by setting up Joint Working Parties comprising members of the various Study Groups concerned. (The replies prepared by these Working Parties will generally be accepted without any difficulty by the Study Groups represented on them.)

b) Questions which chiefly concern one Study Group and are of secondary interest to other Study Groups will be studied by the main Study Group only, the necessary co-ordination being effected in the administrations themselves.

c) Procedure based on the use of co-ordination groups. This would operate along the following lines:

Study Groups will be arranged in families (Study Groups belonging to the same family generally have the largest number of questions in common).

Each family could have a co-ordination group consisting of the Chairmen and Vice-Chairmen of the Study Groups. The group would be instructed to supervise and regulate the study of certain questions common to the various Study Groups of the family.

d) Whenever possible, the simplest and most efficient course of action should be adopted, e.g. direct contact among Chairmen or the appointment of small groups of rapporteurs as the need arises. Such a group would obviously be bigger than a group responsible to a single Study Group because it would have to include members empowered to represent each of the Study Groups concerned. On the other hand, it would never be as large as a Joint Working Party. Admittedly, it might take some time for all the Study Groups concerned to appoint their representatives but responsibility for setting up a small group to deal with a clearly defined problem and the choice of the members could be left to the competent co-ordination group.

The amendments to Resolution No. 1 resulting from the adoption of these proposals are given in annex A1.

## ANNEX A.1

**Proposed amendments to Resolution No. 1  
Additional Rules of Procedure of the C.C.I.T.T.**

*(Blue Book—Volume I, pages 184–599)*

1. Add the following to III.3 c at the beginning of sub-paragraph i (page 189):

“Contributions should be concisely drafted, avoiding any unnecessary details, tables or statistics that make no direct contribution to the reply to a question. They should be clearly written with a view to being universally understood, that is, as codified as possible, using international terminology and avoiding the technical jargon peculiar to the author’s country.

When a contribution deals with several questions, the questions should be separated so that the text of each question begins on a fresh sheet of paper (not on the back of a page).”

2. At the end of III.3 c i (page 189), add the following sentence:

“A reply should be accompanied by a summary, and should be followed by conclusions whenever possible, in the form of a draft Recommendation.”

3. Add the following sub-paragraph to III.3 c (page 189):

“iv) Passages of an unduly commercial nature included in a contribution may be deleted by the Director of the C.C.I.T.T. in agreement with the Chairman: the author of the contribution will be advised of any such deletions.”

4. Replace III.3 d (page 189) by the following:

“d) Contributions should be drafted in one of the working languages of the Union and sent in four copies to the C.C.I.T.T. Secretariat; one of these copies will be sent immediately to the Chairman by the C.C.I.T.T. Secretariat.

It is recommended that a translation of contributions in another working language be sent to the C.C.I.T.T. Secretariat.

Contributions should be submitted on very white paper, in clear black type. If the paper is not of A4 format, the text on each page should not exceed that format.

The top half of the first page should be left blank.”

5. Replace III.4 b by the following:

“b) Before each meeting, a draft working plan listing the questions to be examined and the subject of each of them should be prepared by the Chairman, with the help of the Secretariat. This working plan should indicate the point reached in the study of each question and the documents relating to it.

The working plan should indicate which questions are to be studied, but it must be regarded as subject to change in the light of the rate at which work proceeds. Chairmen shall try to follow it as far as possible.

The working plan will be sent out at least one month before the beginning of each meeting.”

6. Add the following paragraph III.10 *bis* after paragraph III.10:

“10 *bis* A Study Group or Working Party may instruct one or more rapporteurs, appointed in person by the Study Group or Working Party, to draft a reply to a question for submission to the Study Group or Working Party.”

The members of this last-mentioned group of rapporteurs, under the authority of a leader, shall choose whatever method of work they consider most appropriate: correspondence, or private meetings of the group.

The group of rapporteurs would then submit a report to the Study Group or Working Party for examination at the next meeting."

7. Add the following paragraph III.4 *bis* after paragraph III.4 (page 190):

"If, from the contributions received, it appears that there is agreement among administrations on the lines of the reply to a question (or part of a question) the Chairman, with the assistance of the Secretariat, may submit a draft reply, possibly accompanied by a draft Recommendation.

If the contributions received reveal a variety of proposals or points of view, the Secretariat should, if possible, prepare a table summing up the different positions of administrations on the question and the point reached in the study. The table should be sent to members of the Study Group, if possible in advance of the meeting."

8. Replace the third sub-paragraph of paragraph I.6 (page 186) by the following:

"— decide, when a question is of interest to several Study Groups, whether:

- to set up a Joint Working Party composed of members of the Study Groups concerned, or
- to entrust the study to a single Study Group, the necessary co-ordination being effected within the framework of national organizations,
- set up co-ordination groups for each family of Study Groups; these groups shall be composed of the Chairmen and Vice-Chairmen of the Study Groups in the family concerned and shall carry out the necessary co-ordination for studies that are common to the Study Groups in the family."

The text of Resolution No. 1 "Additional rules of procedure of the C.C.I.T.T." as amended is published in Part II of this volume.

## B.—PROCEDURE FOR PROVISIONAL RECOMMENDATIONS

Committee A proposes to the Plenary Assembly the following Resolution (Resolution No. 2):

- a) If the necessary authority is granted by the Plenary Assembly, a Study Group meeting may decide that the procedure for provisional approval be applied to a draft Recommendation.
- b) In cases of urgency a Study Group meeting may decide that the procedure for provisional approval be applied to a draft Recommendation.

Such a decision shall be taken by unanimous agreement between the administrations and recognized private operating agencies represented at the meeting of the Study Group, both in respect of the Recommendation and the need for urgent approval.

The C.C.I.T.T. Secretariat shall then request the administrations of countries Members of the I.T.U. to inform it within three months whether they approve the provisional adoption of the draft Recommendation concerned. The Recommendation shall be provisionally adopted if, within this time limit, a simple majority of favourable replies is received provided that more than half of the members of the Study Group concerned have replied.

Definitive adoption will be a matter for the following Plenary Assembly.

### C.—SEPARATION OF THE FINAL MEETINGS OF THE STUDY GROUPS FROM THE PLENARY ASSEMBLY ITSELF

It was recognized that the work of the C.C.I.T.T. would probably be more efficient if the final Study Group meetings were separated from the Plenary Assembly itself, provided the final Study Group meetings were held in Geneva. It would be well to try out such a system, for example on the occasion of the Vth Plenary Assembly.

However, countries which do not play a regular part in Study Group activities feel that the association of the final Study Group meetings with the Plenary Assembly gives them the opportunity of taking part in the work of the Study Groups and this opportunity would be lost if the meetings were separated from the Plenary Assembly. This drawback could be partly remedied if the duration of the Plenary Assembly were increased, for example to three weeks. The additional week could be used for a more thorough examination of Study Group reports, or a semi-official meeting could be organized at which the Chairmen would summarize the work of their respective Study Groups during the preceding study period and explain the reasons for the decisions proposed by them.

Committee A was unable to agree on a change in existing practice. It considered that study of this problem should be continued, possibly by referring it to the team of experts mentioned in Resolution No. 7.

### D.—ORGANIZATION OF STUDY GROUPS

The proposals submitted by Committee A are the outcome of discussions which were limited by the short time available. The Committee was obliged to admit that, where no unanimous agreement existed on changing the present organization, the provisional solution would be to maintain the *status quo*.

It proposed that a Working Party of experts designated by the administrations and having great experience of C.C.I.T.T. work be set up to prepare any changes considered necessary in time for the Vth Plenary Assembly.

A Resolution (Resolution No. 7) was prepared to this effect; the text is published in Part II of this Volume.

After reviewing the existing Study Groups, and bearing the above in mind, Committee A made the following proposals:

#### a) *Group comprising Study Groups I, II and III*

These three Study Groups should be retained, the terms of reference of Study Group III being the following:

- the study of general tariff principles (including costing) for the telephone and telex services, sound and television programmes, leased circuits, data transmission;
- regulations governing the leasing of circuits of all kinds.

The application of tariff principles established by Study Group III would be the responsibility of Study Groups I and II, as appropriate, in order to maintain the required relationship between tariffs and operation.

b) *Study Group XIII*

Continuation of this Study Group with the terms of reference specified on page 152 of the *Blue Book*, Volume I, and reproduced as annex 4 to the report of Committee B.

The ad hoc group of experts will have to pay special attention to the position of this Study Group.

c) *Study Groups XII and XVI*

Maintenance of the *status quo*.

d) *Special Study Group B*

Abolition of this Study Group, it being understood that a Co-ordination Group will be set up for Study Groups II, XI, XIII and IV, at least. This Co-ordination Group will be made up of the Chairmen and Vice-Chairmen of the Study Groups concerned; the Plenary Assembly should designate the Chairman of this Co-ordination Group. Other Chairmen may be co-opted where the study would concern additional Study Groups.

e) *Special Study Group C*

Maintenance of the *status quo*, with extension to the consideration of reliability.

f) *Study Groups VIII, IX, X and XIV*

Maintenance of the *status quo*.

The LTG Joint Working Party will have to deal with the adaptation of channels designed for telephony but used for non-telephone signals (voice-frequency telegraph systems, facsimile telegraphy, data transmission).

g) *Special Study Group A*

Maintenance of the *status quo*.

The Chairman of Special A envisages the setting up of internal Working Parties, perhaps as follows:

1. Modems and interfaces
2. Data transmission maintenance
3. General questions regarding data transmission
4. (Possibly) Joint Working Party Sp. A/X for future data networks. The Plenary Assembly should be asked to appoint the Chairman and Vice-Chairman of this Joint Working Party.

h) *Study Groups V and VI*

Maintenance of the *status quo*.

i) *Study Group VII*

No proposals were given by the meeting of Chairmen and Vice-Chairmen although several administrations recommended that this Study Group should be discontinued. There was no time for Committee A to discuss the future of Study Group VII.

Lastly, the Committee proposed that a *new Special Study Group D* be set up, for the following reasons:

The introduction of pulse-code modulation switching (and signalling) and pulse-code modulation transmission in telephony, and studies in the same field on other than telephone requirements (data, telegraphy, facsimile), justifies the creation of a new Special Study Group D; this Study Group would take care of all problems having a common basis; later the basic standards would revert to the present Study Groups.

There is no doubt that some of the work of Special Study Group D will be connected with that of other Study Groups (IV, VIII, IX, X, XI, XII, XIV, XV, XVI, Special A and Special C, and C.C.I.R. Study Groups), particularly during the co-existence of p.c.m. and classical systems.

#### *Working parties*

The Joint Working Parties will have to be set up by the Plenary Assembly in the light of the conclusions reached by Committee B on the appointment of questions among the Study Groups.

Note will be taken of the existence of internal Study Group Working Parties if the Chairmen of the Study Groups concerned announce their formation for inclusion in the *White Book* (as was the case in Volume I of the *Blue Book*, page 212).

## E.—C.C.I.T.T. BOOKS

### Report of the "Books" Working Party

1. The following documents were considered by the "Books" Working Party:

- AP IV/2 — Director of the C.C.I.T.T.: Publication of the new C.C.I.T.T. Book.
- AP IV/7 — Report of the meeting of Chairmen and Vice-Chairmen on Working Methods, pages 41–42.
- AP IV/71 — U.S.S.R.: Proposals put forward for the purpose of increasing the C.C.I.T.T. work efficiency.

2. The Plenary Assembly decided at its 7th meeting that the new book would be a *White Book*.

3. As far as the Supplements are concerned, the Working Party proposes:

- a) contributions which are reproductions of articles published in technical reviews should not be included, but quoted in the bibliography;
- b) contributions published in a Book should not be reproduced in the subsequent Book unless they are directly connected with the implementation of a Recommendation. Reference should be made, however, to the contribution in the preceding Book if it is of some interest, though not to the point of being republished;
- c) contributions from industrial organizations could be published providing that parts of the contribution dealing with commercial propaganda are deleted.

4. In order to speed up the publication of the most urgent sections of the Books, i.e. the Recommendations and Questions, those sections should be published apart from the Supplements.

The order of priority for publication would be:

- Questions and their annexes;
- Recommendations;
- Supplements.

The Questions would be published as booklets, in groups.

The Recommendations would be published in loose-leaf form so that they could be available as quickly as possible.

The Supplements would be published as fixed-leaf booklets.

An alphabetical index of Recommendations should be prepared, indicating the number of the Recommendation(s) and not the page numbers.

5. Recommendations should not be repeated, as with the loose-leaf method the Recommendations can be grouped at the user's convenience.

Supplements should not be repeated.

6. The official part of the Books (Questions and Recommendations) should be published as speedily as possible, and certainly within a year (a possible exception being the Recommendations still being examined by editorial groups).

7. As far as the publications not included in the Book are concerned, the Working Party proposes the following:

- Plan books: no change;
- Directives for protection of telecommunication lines, already prepared in loose-leaf form: no change;
- Recommendations against corrosion: same remark as for Directives;
- List of definitions, which often has to be changed: loose-leaf form is proposed;
- Instructions for the international telephone service: loose-leaf form is proposed, at least for the next edition (the present edition is already too far advanced);
- Codes and abbreviations of the telegraph service: loose-leaf form is proposed;
- List of destination codes for the message retransmission network: loose-leaf form proposed.

8. If the Plenary Assembly accepts these proposals, Resolution No.4 (*Blue Book*, Volume I, page 193) will have to be duly amended.



## REPORT BY COMMITTEE B

### PROGRAMME OF WORK FOR STUDY GROUPS

*(as amended and approved by the IVth Plenary Assembly on 25 October 1968)*

#### Introduction

In accordance with the decision of the Plenary Assembly (meeting on 21 October), the work of Committee B was prepared by a sub-committee, consisting of the Chairmen and Vice-Chairmen of the Study Groups, Plan Committees, Special Autonomous Working Parties and Working Parties already in existence, together with a small number of delegates particularly concerned.

Its proceedings were directed by the Chairman and the Vice-Chairman of Committee B. It performed the following work:

- to make a preliminary review of the questions proposed by the Study Groups;
- indicate those which seem particularly important or urgent;
- check whether there is any duplication in the questions proposed by different Study Groups and
- propose a regrouping of related questions.

Delegations which considered that some questions should be eliminated were asked to send their comments in writing to the Chairman of Committee B.

Committee B approved and amplified the proposals of its sub-committee. It submits to the Plenary Assembly the following proposals regarding the study of questions by the Study Groups.

#### List of Questions

See annex 1.<sup>1</sup>

#### General

1. A question is considered urgent if special steps have to be taken to enable its study to be completed before the next Plenary Assembly. These questions are marked with an asterisk (\*).

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<sup>1</sup> This annex, as amended by the Plenary Assembly, was in use to draw up the list of Questions to be studied for the period 1968–1972, which appears in Part III of this volume. This annex, therefore, is not reproduced as an annex to the report of Committee B.

2. The Committee did not consider it necessary to mention the internal Working Parties of the Study Groups and it merely indicated when Joint Working Parties ought to be set up to study certain questions.

3. Each Study Group Chairman was asked to supply the Secretariat with a draft calendar for the meetings of the Study Group. These drafts are reproduced in annex 2.

4. Committee B proposes that a "family" of Study Groups interested in leased telephone type circuits be created; the Chairman of Study Group XVI would co-ordinate these studies.

5. The Chairman of the Working Party on service tests of signalling system No. 6, who has not yet been appointed, should draw up the programme of meetings in concert with the Chairmen of Study Groups XI and XIII.

6. Should Special Study Group D (Pulse code modulation) be set up, it would be desirable for the Chairman appointed to head it to agree with the other chairmen on establishing liaison with the Study Groups concerned as work progresses.

7. Committee B proposes that the terms of reference of Joint Special Study Group C be extended to include questions of reliability, as already proposed by C.C.I.R. Study Group IX. The role of Special Study Group C would be to study the general definition of reliability and to ensure liaison between the work which will be going on concurrently for the conception of new systems in C.C.I.T.T. Study Group XV (Questions 40, 41, 42, 43 and 44/XV) and in C.C.I.R. Study Group IX.

Another aspect of reliability relates to the existing network and will be dealt with by Study Group IV, which will naturally take cognizance of the theoretical work done by Special Study Group C.

Question 4/III could be handled independently of these technical questions of reliability (a Note 3 being, however, added to its text).

8. Committee B proposes in annex 1 to entrust the study of various questions to Joint Working Parties existing or to be set up. It proposes disbanding the SYN (Synchronous telegraphy), MRT (Retransmission of messages) and EFF (Efficiency factor) Joint Working Parties.

9. It must be well understood that, when no Joint Working Party is set up, the main purpose of indicating the various Study Groups interested in the examination of the question is in order to inform the members of the Study Group to which the Question is assigned so that they may ensure the necessary co-ordination *within the framework of their national administrations.*

#### ANNEX 1 (for memory)

#### **List of questions proposed for study as from 1968 by the Study Groups**

*(see Part III of this volume)*

## ANNEX 2

**Information provided by the Chairmen of Study Groups on the programme of meetings**

## STUDY GROUP I

*Calendar:*

Study Group	2 weeks	1970 (summer or autumn)
Working Party on revision of Telegraph Regulations	2 to 3 weeks	End 1970
Study Group (to consider work of the Working Party)	1 or 2 weeks	1971

## STUDY GROUP II

Study Group II should be able to meet for:

10 days in 1969

10 days in 1971

Working Party II/1—Accounts in international telephone traffic, under the Chairmanship of Mr. Huber (Federal Republic of Germany):

10 days in 1969

5 days in 1970

10 days in 1971

Working Party II/2—Revision of the Instructions, under the Chairmanship of Mr. Burtz (France):

5 days in 1969

5 days in 1970

5 days in 1971

Working Party II/3—Telephone Regulations, under the Chairmanship of Mr. Warner (U.S.A.):

5 days in 1970

10 days in 1971

Working Party II/4—Sound and television programme transmission, Chairman, Mr. Hawkins (United Kingdom):

5 days in 1970

5 days in 1971

Furthermore, owing to the transfer of Questions R/XIII to V/XIII from Study Group XIII to Study Group II, provision will have to be made in the programme of meetings for Dr. Karlin's Working Party:

10 days in 1969

5 days in 1970

10 days in 1971

## STUDY GROUP III

*Calendar of meetings:**Costs (Europe) Working Party*

January 1969:	Letter/questionnaire from the Director of the C.C.I.T.T. on participation in the Working Party—with obligation to reply to a questionnaire on costs.
1969, second quarter:	3 days, preparing a questionnaire.
1970, first quarter:	8–10 days (processing of replies, establishing costs, tariff proposals)
1970, fourth quarter:	4 days finalizing tariff proposals

*Costs (Africa) Working Party*

Calendar on the same lines but in conjunction with the meetings of the African Plan Committee.

*Study Group III*

1970, second quarter:	6–8 days.
1971, second quarter:	5 days.

## STUDY GROUP IV

*1969*

January	(Editorial Group for Volume IV.)
February/March	Chairman and Vice-Chairman, Chairmen of Working Parties, Working Party 2.
September/October	Working Party 3, Working Party 5.

*1970*

April	Working Party 4, Working Party 2.
September/October	Working Party 3, Study Group IV (7 days).

*1971*

April	Working Party 5, Working Party 2.
September/October	Working Party 3, Working Party 4.

*End 1971/1972*

Study Group IV (10 days).

About 4–6 days for each Working Party Meeting.

## STUDY GROUP V

Study Group V: 1st meeting: 3 days April–June 1969

2nd meeting: 7 days, the year before the Vth Plenary Assembly.

Joint Working Party, Question 1 (Protective devices)	} The dates and duration of the meetings of the above depend on the decisions taken at the 1st meeting of Study Group V.
Joint Working Party V/VI (Question 22)	
Joint Working Party V/XV (Question 21)	
Joint Working Party, Question 24 (Earthing)	

## STUDY GROUP VIII

One meeting of about four days early in 1970.

## STUDY GROUP IX

<i>Schedule of meetings</i>	<i>Meetings</i>	<i>Total number of days</i>
S.G. X.	1	5
S.G. X and I	1	3
Joint WP I/VIII/IX/X/XIV/Sp.A	2 or 3	15
TGX Joint Working Party	1	5
MAT Joint Working Party	1	5

## STUDY GROUP XI

1969–1972

Between November 1968 and June 1969	30 days—Editing Group for Volume VI
September–October 1969	5 days—Study Group XI
Between January 1970 and January 1971	10–15 days for Working Parties that may be set up before or at September–October 1969 meeting of Study Group XI
March–April 1971	10 days—Study Group XI
January 1972	5 days—Study Group XI

(on assumption that Plenary Assembly is held in April 1972).

## STUDY GROUP XIII

WP XIII/1

Supervision of operation—Quality of service and maintenance of switching and signalling equipment.

WP XIII/2

Routing plan—Planning of the international automatic network and management from the standpoint of grade of service.

WP XIII/1	2 weeks in 1969 and 2 weeks in 1970
WP XIII/2	1 week in 1969 and 1 week in 1970
Study Group XIII	1½ weeks in 1970 and 1½ weeks in 1971

## STUDY GROUP XIV

SG XIV, first meeting:	June or end of September 1969 (3 days)
SG XIV, second meeting:	June 1971 (7 days)

*Setting up of two Working Parties*

WP XIV/1	Transmission questions (one week)
WP XIV/2	Equipment questions (one week)

which should meet in the interval between the meetings of Study Group XIV, depending on the contributions received for the questions referred to these Working Parties.

## STUDY GROUP XV

1. *Meetings of Study Group XV*

- a) 10 days in April 1970
- b) 10 days in 1971
- c) 6 days, three months before the Plenary Assembly

2. *Existing Working Parties*

LTG (Mr. Toutan)  
Echo suppressors (Mr. Helden)

3. *Estimated total for Working Party meetings: 40 days*

## STUDY GROUP A

Working Party—Modem and interfaces	10 meeting days
Working Party—Maintenance	5 meeting days
Working Party—General data on transmission questions	7 meeting days
Joint Working Party—New data and message network	15 meeting days
Study Group Special A	15 meeting days

## ANNEX 3

**p.c.m. Questions**

(Contribution of the Belgian Administration)

**Introduction**

The proposed questions relating to p.c.m. systems appear in three documents:

- AP IV/80, Question AB, page 73 (Special Study Group A)
- AP IV/90, Question D/IX, page 25 (Study Group IX)
- AP IV/63, Questions 1 to 11 (Study Group XV)

The last of these three documents, which was prepared very carefully, gives a complete survey of the questions which should be examined for p.c.m. systems. Study Group XI considered, moreover, that problems concerning switching and signalling in particular were included in this document, explicitly or implicitly. It should be noted, however, that the questions have been drawn up in such a way that they could be apportioned among various Study Groups if necessary. Since it has been

decided to set up a special Study Group to study p.c.m. systems, the drafts of the questions should be reviewed so as to regroup the different points bearing on the same subject.

With this in mind, the Belgian Administration proposes the following presentation. The documents quoted in brackets deal entirely or in part with the question concerned.

#### QUESTIONS ON p.c.m. SYSTEMS

*Question 1* (Question 1, AP IV/63, without amendment).

*Question 2* (Question D/IX, document AP IV/9; Point AB, document AP IV/80; Question 11, document AP IV/63).

What arrangements should be made in p.c.m. systems to permit the integration of all types of information (telephony, telegraphy, television, data, etc.)?

This question includes study of the possibilities offered by the associations of time slots inside frames and between frames.

*Question 3* (Question 3, document AP IV/63) (new draft)

What arrangements should be made in p.c.m. systems to permit the transfer of signals used in existing or recommended signalling systems?

It should be noted that the use of bits in one or more time slots of each channel, or bits in one or more separate time slots does not necessarily correspond to signalling systems on each channel or on a separate channel.

*Question 4* (Point AB, document AP IV/80)

What arrangements should be made in p.c.m. systems to permit the establishment of signalling for such systems, bearing in mind the characteristics of the processing machines and the requirements of certain types of information (e.g. high-speed data transmission)?

*Question 5* (Question 4, document AP IV/63; Question 11, document AP IV/63)

What arrangements should be made in exchanges controlled by processing machines to permit the introduction of TDM-type signalling and the establishment of integrated digital networks, bearing in mind in particular the requirements of certain types of information (e.g. data transmission).

*Question 6* (Question 5, document AP IV/63, unchanged).

*Question 7* (Question 2, document AP IV/63, unchanged).

*Question 8* (Question 6, document AP IV/63, unchanged).

*Question 9* (Question 7, document AP IV/63, unchanged).

*Question 10* (Question 8, document AP IV/63, unchanged).

*Question 11* (Question 9, document AP IV/63, unchanged).

*Question 12* (Question 10, document AP IV/63, unchanged).

#### ANNEX 4

##### **Terms of reference of Study Group XIII in 1968-1972**

(text of page 152 of *Blue Book*, Volume 1)

1. Structure of the international semi-automatic and automatic network.
2. Co-ordination of the development of the international semi-automatic and automatic network.

3. Theoretical studies (statistical) of traffic.
  4. Determination of operating conditions for the intercontinental service to serve as a basis for technical specifications.
  5. Establishment of guiding principles for the maintenance of semi-automatic and automatic circuits with the co-operation of Study Groups XI and IV.
  6. Upkeep of switching equipment and terminal signalling equipment.
- Note.*—The maintenance of lines, international circuits, and international connections for transmission is a matter for Study Group IV.
7. Quality of service.
  8. Daily tests of the operation of international equipment. Check of the carrying out of such tests and examination of the results, as described in Volume VI of the *White Book*.
  9. Co-ordination of and check of operations in International Maintenance Centres (I.M.C.).



## REPORT BY COMMITTEE C

### BUDGET CONTROL

*(as approved by the Plenary Assembly on 25 October 1968)*

The Committee was presided over by Mr. O.H. Mohamed (Pakistan), with Mr. J. A. Wiltgen (Brazil) acting as Vice-Chairman. The following countries were represented: Australia, China, United States of America, U.S.S.R., Netherlands, Sweden, Argentina, Portugal, United Kingdom, Ireland, Korea, Indonesia and Brazil.

During the two meetings held on 21 and 23 October 1968, the Budget Control Committee of the IVth Plenary Assembly examined the following documents:

- AP IV/10 — Director of the C.C.I.T.T.: Report to the IVth Plenary Assembly on the financial needs of the C.C.I.T.T. up to the Vth Plenary Assembly.
- Annex 1 to this report: Director of the C.C.I.T.T.: Expenses of the IVth Plenary Assembly.

The Committee also referred to documents

- AP IV/1 — Director of the C.C.I.T.T.: Report on the activities of the C.C.I.T.T. between the IIIrd and IVth Plenary Assemblies.
- AP IV/3 — Director of the C.C.I.T.T.: Report on the C.C.I.T.T. Secretariat.

The Committee approved annex 1 to this report.

The Committee took note of Part I of document AP IV/10, after obtaining certain clarification from the Director of the C.C.I.T.T. Part II of the document dealt particularly with the steps taken by the inviting administration to ensure the smooth running and success of the meetings. When approving it, the Committee expressed its satisfaction to the administration and its gratitude for the efforts made to facilitate the delegates' work and make their stay in Argentina agreeable.

The discussion on Part III of document AP IV/10, which deals with estimates of financial requirements until the Vth Plenary Assembly, brought out the difficult situation in which the Committee found itself when examining proposals for the creation or regrading of posts submitted by the Director of the C.C.I.T.T. That difficulty arose partly because Committee C did not have all the necessary information at its disposal to enable it to judge the Director's proposals. Experience had shown that it was difficult strictly to implement the provisions of the General Regulations and Rules of Procedure for Conferences (reproduced on page 3 of document AP IV/10-F) without trespassing upon the rights and powers of the Administrative Council.

The Director of the C.C.I.T.T. expressed the wish that steps should be taken subsequently by the competent authorities to enable the Plenary Assembly, which was in a better position than the Administrative Council to judge the needs of the C.C.I.T.T., to provide the Council with all the necessary information concerning them.

The Committee decided to take note of the Director's statement in annex III/1 of document AP IV/10-F, but recognized that that part of the document, and document AP IV/1, provided arguments that might justify future changes in the staff strength of the C.C.I.T.T. Secretariat and that the initiative for making the changes would lie entirely with the Administrative Council.

The financial requirements are also dependent on decisions on the Report of Committee A to be taken by the Plenary Assembly.

Annex III/2 of document AP IV/10 was approved with the above comments.

## ANNEX I

(to the report by Committee C)

### Report of the Director of the C.C.I.T.T. on the expenses of the IVth Plenary Assembly

A. In document AP IV/10-F entitled "Report to the IVth Plenary Assembly on the estimate of the financial needs of the C.C.I.T.T.", I mentioned that information on expenses incurred during the Plenary Assembly would be given in a working document for the Budget Control Committee. The following is the statement of accounts, as accurate as it can be indicated or estimated at the time when this document was drafted. This statement is accompanied by the comments that I am able to make at present.

#### EXPENSES INCURRED DURING THE PLENARY ASSEMBLY

<i>Staff expenditure</i>	<i>Argentine pesos</i>
Salaries, allowances, travel expenses and overtime for 19 typists recruited on behalf of C.C.I.T.T. at Buenos Aires by the inviting Administration .	5 300 000
Salaries, allowances, and travel expenses for 19-13 members of roneo service (round figure) . . . . .	4 000 000
Allowance for technician from the Xerox Company engaged to supervise and service the two photocopying machines . . . . .	129 500
<i>Equipment</i>	
Supplies for document production (duplicating paper, ink, stencils) . .	282 700
Rental of eight Gestetner duplicating machines and transport between Buenos Aires and Mar del Plata . . . . .	512 000
Rental (depending on the number of photocopies) of two Xerox photocopying machines and transport between Buenos Aires and Mar del Plata	600 000
<i>Carried forward</i>	13 368 500

*Argentine pesos*

<i>Miscellaneous</i>	<i>Brought forward</i>	
Transport of documents between Buenos Aires and Mar del Plata . . .		13 368 500
Cleaning and servicing of typewriters . . . . .		450 000
Purchase of office supplies, postage, telegrams, customs formalities and other general expenses . . . . .		51 300
		30 000
	<b>Total</b>	<b>13 899 800</b>
		about 40 000 US\$

B. The terms of reference of the Budget Control Committee are to examine expenses incurred during the meetings of the Plenary Assembly itself and also to submit to the Plenary Assembly an interim statement of accounts and then, at its last meeting, a final statement showing as accurately as possible the total expenses of the Assembly. This final statement should then be transmitted with the Assembly's observations to the Secretary-General for submission to the Administrative Council.

As shown in part A of this document, considerable sums have been paid out only very recently, and it was not possible to estimate their exact total in advance. In these circumstances it seemed to me that an interim statement of expenses, prepared in advance, could not be sufficiently accurate. That is the reason for presenting a single statement to the Budget Control Committee and I would request that it be considered as definitive in the sense of the Rules of Procedure of Conferences.

When examining this statement of expenses, the Committee should not lose sight of the fact that C.C.I. Plenary Assemblies, unlike other large Union conferences, do not have their own budget completely separated from other meetings held in the same year as the Plenary Assembly. You are no doubt aware that several meetings of Study Groups and Working Parties have been held in the first half of 1968. The expenses of these meetings are inextricably linked with those incurred in the preparation of the Plenary Assembly, which took many months of intense effort. The experience acquired in dealing with the expenses of meetings permits me nevertheless to submit the following statement to the Committee, brought up to date in the light of the most recent information received from the Finance Service of the I.T.U. and which I consider to correspond closely with the actual situation.

*Swiss francs*

as of 15 October

<i>Item</i>	
Administration . . . . .	210 000
Language services . . . . .	980 000
Document reproduction . . . . .	110 000
Insurance . . . . .	—
Premises, furniture, machines . . . . .	40 000
Document production . . . . .	100 000
Supplies and overheads . . . . .	420 000
Technical installations . . . . .	—
Miscellaneous and unforeseen . . . . .	10 000
	<b>Total</b>
	<b>1 870 000</b>

The justification for the greater part of these expenses is found in annexes B, C and D of the Agreement between the inviting Administration and the I.T.U.

Thanks to the careful preparation of these annexes, particularly annex B showing the staff to be provided for the meetings, no important change was made in the number of staff, their place of

recruitment or their length of service. The few changes made—the possibility of which was expressly stated in paragraph 42 of the Agreement with the inviting administration—are as follows:

- Employment at Mar del Plata of a technician from the Xerox Company responsible for servicing two photocopying machines.
- Local recruitment of one person to service the six scanners.
- Retention for the duration of the Assembly of an additional interpreter to enable the Secretariat to cope more easily with emergencies, which may arise at all times.
- Retention for the last week of two local Spanish language translators.
- Dismissal on 18 instead of 25 October of six members of the mimeograph service.

Apart from these exceptions, the staff has left or will leave on the dates fixed in the Agreement.

Annex C, dealing with office machines and technical equipment, contains two changes: for reasons of economy the automatic scanners were brought from Geneva; secondly, it was not necessary to buy two trolleys for transporting documents as they were already available in the Hotel Provincial.

The most important change in the supplies listed in annex D is the increase in the amount of paper required for the document production. The 800 000 sheets of white paper initially foreseen were subsequently increased to 2 750 000 sheets. The unused supplies can however be returned to the suppliers, against a corresponding deduction from the bill.

An item not mentioned in the above Agreement but which merits special mention relates to the postal charges included in the item "Office supplies and overheads". Up to 30 September, postal charges had reached 240 000 Swiss francs (round figure). This gives some idea of the volume of preparatory documents sent to organizations taking part in C.C.I.T.T. meetings.

Another item, which is linked with the place of the meeting, is that of transport, also included in the item "Office supplies and overheads". Up to 15 October, about 70 000 Swiss francs had been spent for transporting documents and equipment for the Secretariat. However, I would point out to the Committee that, as is its practice, the Secretariat sent by sea all the documentation that was ready far ahead of time, to take advantage as much as possible of the low cost of sea transport.

**REPORT OF THE DIRECTOR OF THE C.C.I.T.T.  
TO THE FOURTH PLENARY ASSEMBLY  
ON THE ESTIMATE OF THE FINANCIAL NEEDS OF THE C.C.I.T.T.**

(Document AP IV/10)

**Introduction**

1. Under Chapter 17, No. 806, of the General Regulations annexed to the Convention (Montreux, 1965) it is my duty to submit for the approval of each Plenary Assembly an estimate of the financial needs of the C.C.I.T.T. up to the next Plenary Assembly. Under Chapter 12, No. 781, of the General Regulations, the Assembly approves this estimate for submission to the Administrative Council.

2. The Additional Rules of Procedure of the C.C.I.T.T., contained in Resolution No. 1 of the Geneva Plenary Assembly, 1964, provide that the report on the financial needs of the C.C.I.T.T. until the next Plenary Assembly shall contain a summary of the accounts for the years which have elapsed since the preceding Plenary Assembly, as well as the "Estimated expenses of the C.C.I.T.T." to cover its financial requirements until the next Plenary Assembly.

3. Finally, No. 807 of the General Regulations states that the Director of the C.C.I.T.T. shall base the budget estimates of the C.C.I.T.T. for inclusion in the annual budget of the Union on the estimate of financial needs approved by the Plenary Assembly of the C.C.I.T.T.

4. The terms of reference of the Budget Control Committee are defined as follows in Rule 5 of the Rules of Procedure of Conferences, Nos. 674 to 676 of the General Regulations annexed to the Montreux Convention, 1965:

- to determine the organization and the facilities to be made available to the participants in the Plenary Assembly (annexes II/1, II/2 and II/3 to this report are designed to facilitate this task);
- to examine and approve the accounts for expenditure incurred during the Plenary Assembly (at the appropriate time, this information will be given in a working document for the Budget Control Committee);
- to submit to the Plenary Assembly, first an interim statement, and then, at the last meeting, a final report showing as accurately as possible the total expenditure of the Assembly; the report must then be transmitted, together with the observations of the Assembly, to the Secretary-General for submission to the Administrative Council.

## Part I

### OPERATIONAL EXPENSES OF THE SECRETARIAT IN THE YEARS 1964 TO 1967 AND BUDGET ESTIMATES FOR 1968

As staff expenditure depends on the number of posts approved by the Administrative Council, annex I/1 merely gives the number of permanent officials for the years 1964 to 1968. The table clearly shows that, despite my unceasing efforts to obtain more staff and despite the great increase in the work load of the Secretariat, only two new posts have been approved by the Administrative Council since the end of the IIIrd Plenary Assembly. The posts are those of one P.3 engineer for data transmission questions and one draughtsman.

In respect of 1968, the table takes into account the regrading approved by the Administrative Council at its 23rd session on the proposal of the grading experts.

As, since the centralization of budget items, there is no means of distinguishing between the expenditure on staff and on general services of the different I.T.U. organs, a recapitulation of expenditure can be given only for the Laboratory Reserve Fund (annex I/2) and expenditure on meetings; the latter, however, is given in Part II of this report.

#### ANNEX I/1

#### Permanent posts in the Secretariat and Laboratory of the C.C.I.T.T. approved by the Administrative Council

Grade	Number				
	1964	1965	1966	1967	1968 <sup>c</sup>
Director	1	1	1	1	1
D1	1	1	1	1	1
P5	2	2	2	2	3
P4	1	1	1	1	—
P3	2	3 <sup>a</sup>	3	4 <sup>b</sup>	8
P2	7	6	6	6	2
P1	2	3 <sup>a</sup>	3	3	3
G7	1	—	—	—	—
G6	2	2	2	2	1
G5	6	6	6	6	10 <sup>d</sup>
G4	2	2	2	2	—
G3	1	1	1	1	1
	28	28	28	29	30

<sup>a</sup> One P2 post and one G7 post were regraded to P3 and P1, respectively, with effect from 1 January 1965, under Decision No. 294 and Resolution No. 534 of the Administrative Council.

<sup>b</sup> A new post of engineer in grade P3 for a specialist in data transmission was created with effect from 1 July 1967 under Resolution No. 583 of the Administrative Council.

<sup>c</sup> In pursuance of Resolution No. 6 of the Plenipotentiary Conference, Montreux, 1965, and of Resolutions Nos. 608 and 625 of the Administrative Council, several posts in the C.C.I.T.T. Secretariat and Laboratory were regraded with effect from 1 January 1968. Seven officials were upgraded, while three posts were downgraded, but the latter measure will not take effect until the present holders leave their posts. Decisions regarding the grading of two senior posts have been deferred.

<sup>d</sup> A third draughtsman was engaged on a permanent basis with effect from 1 January 1968.

## ANNEX I/2

## Transactions in the C.C.I.T.T. Reserve Fund, 1964-1967

	Position on 1 January	Expenditure on fitting out the Laboratory	Income from calibration tests	Interest on investments	Position on 31 December
Position of the Fund on 1 January 1964	27 280.05				
1964 — Transactions . . . . .		17 166.80	12 915.—	113.30	
— Position on 31 December 1964					23 141.55
1965 — Transactions . . . . .		5 500.—	18 446.—	100.20	
— Position on 31 December 1965					36 187.75
1966 — Transactions . . . . .		3 182.85	22 316.80	179.85	
— Position on 31 December 1966					55 501.55
1967 — Transactions . . . . .		1 814.20	4 513.—	271.15	
— <i>Position of the C.C.I.T.T. Reserve Fund on 31 December 1967</i>					58 471.50

## Part II

EXPENDITURE ON STUDY GROUP MEETINGS  
AND THE IVth PLENARY ASSEMBLY

1. The budgets for meetings held from 1965 to 1968, which were adjusted to actual needs by the Administrative Council in accordance with Protocol II annexed to the Geneva Convention, 1959, and later Protocol I annexed to the Montreux Convention, 1965, and expenditure incurred on meetings from 1965 to 1967 appear in the table in annex II/1.

In accordance with Article 16 of the Convention (Montreux 1965) the expenses of C.C.I.T.T. meetings are borne by all Members and Associate Members, by recognized private operating agencies and scientific and industrial organizations which took part or agreed to take part and by international organizations which are not exempted by virtue of Administrative Council Resolution No. 574 (amended). For bodies other than Members or Associate Members, the annual amount of the contributory unit as laid down by the Administrative Council is now 5000 Swiss francs.

2. The organization and facilities provided for delegates to the IVth Plenary Assembly are described in annexes II/2 and II/3. The Agreement concluded between the inviting Administration and the I.T.U., reproduced in annex II/2, was approved by the Adminis-

trative Council at its 23rd Session, but annexes A, B, C and D thereto are subject to changes to be agreed upon by the inviting Administration and the Director of the C.C.I.T.T.

3. Annex II/3 briefly mentions the generous manner in which the inviting Administration has seen fit to apply Article 16 of the Agreement, on franking privileges.

4. The interim statement of expenses incurred for the Plenary Assembly will be prepared as soon as I have the necessary information.



# ANNEX II/1

## Expenditure in the years 1965 to 1967 and budget estimate 1965-1968

Item	Budget* 1965	Expenditure 1965 <sup>a</sup>	Budget* 1966	Expenditure 1966 <sup>b</sup>	Budget* 1967	Expenditure 1967 <sup>c</sup>	Budget* 1968 <sup>d</sup>
Administration . . . . .	139 000	128 923	254 800	205 930	300 000	241 448	440 000
Language services. . . . .	339 000	232 528	732 500	530 286	911 000	679 227	1 020 000
Roneo . . . . .	77 000	81 046	120 000	92 553	90 000	34 389	140 000
Insurance . . . . .	18 000	26 802	35 200	29 864	30 000	3 139	50 000
Machine rental . . . . .	18 000	5 850	30 000	—	30 000	28 793	40 000
Document production . . . . .	105 000	52 824	150 000	68 290	220 000	111 830	260 000
Office supplies and overheads. . . . .	105 000	53 800	190 000	107 675	240 000	256 752	340 000
Simultaneous interpretation and other technical installations . . . . .	12 000	833	10 000	—	30 000	—	—
Unforeseen . . . . .	2 000	536	3 000	2 030	10 000	2 453	10 000
	815 000	583 142	1 525 500	1 036 628	1 861 000	1 358 031	2 300 000

\* Including additional credits allocated by the Administrative Council to take into account staff salary and allowance adjustments (1965: 15000 francs) and under Additional Protocol I to the Montreux Convention, 1965 (1966: 125 500 francs, 1967: 480 000 francs, 1968: 500 000 francs).

<sup>a</sup> For 25 meetings with a total of 197 meeting days.

<sup>b</sup> For 40 meetings with a total of 278 meeting days.

<sup>c</sup> For 51 meetings with a total of 461 meeting days.

<sup>d</sup> For a probable total of 290 meeting days, including the Plenary Assembly.

## ANNEX II/2

**Agreement between the Administration of the Argentine Republic  
and the International Telecommunication Union and annexes A, B, C and D to this Agreement**

**AGREEMENT BETWEEN THE ADMINISTRATION OF THE ARGENTINE REPUBLIC  
AND THE INTERNATIONAL TELECOMMUNICATION UNION**

**Introduction**

This Agreement, concluded in accordance with Administrative Council Resolution No. 83 (amended) between the Government of the Argentine Republic, represented by the Secretary of State for Communications (hereafter called "the Secretary of State" and "the inviting Administration") and the International Telecommunication Union, represented by the Director of the International Telegraph and Telephone Consultative Committee (hereafter called "the Director", the "I.T.U." and the "C.C.I.T.T.") is designed to provide for the organization of the IVth Plenary Assembly of the C.C.I.T.T. (hereafter called the "Meeting"). It is based on the relevant provisions of the International Telecommunication Convention (Montreux, 1965) and its annexes, on the relevant provisions of the Convention on the Privileges and Immunities of the Specialized Agencies and on the experience gained during previous C.C.I.T.T. meetings.

The inviting Administration declares that it will apply in full the provisions of the two Conventions to which the Argentine Republic is a party.

The I.T.U., for its part, declares that it will conform—as far as the Union is concerned—to the provisions of the above-mentioned Montreux Convention (1965) in carrying out this Agreement.

The Agreement has been signed in two copies by the contracting parties. One copy has been sent to the inviting Administration and the other to the I.T.U.

**A. General provisions***1. Official designation of the Meeting*

The Meeting will be known officially as the "IVth Plenary Assembly of the International Telegraph and Telephone Consultative Committee".

*2. Place and dates of the Meeting*

At the invitation of the Argentine Republic Administration the Meeting will take place at the Gran Hotel Provincial in Mar del Plata.

It will open on 23 September 1968 and close on 25 October 1968.

*3. Invitations*

On behalf of the inviting Administration, the I.T.U. will invite to the Meeting all Members and Associate Members of the Union, the recognized private operating agencies and scientific or industrial organizations which take part in the work of the C.C.I.T.T., the United Nations and its specialized agencies, and the international organizations which take part in the work of the C.C.I.T.T.

*4. Privileges and immunities*

a) The Convention on the Privileges and Immunities of the United Nations and of the Specialized Agencies, to which the Government of the Republic of Argentina is a party, shall be applicable in

respect of the Meeting. Conference premises for the purpose of such application shall be deemed to constitute premises of the I.T.U., and access thereto shall be under the control and authority of the I.T.U.

b) The relevant Articles of the Convention on the Privileges and Immunities of the United Nations and of the Specialized Agencies, and of Decision No. 304 of the Administrative Council of the I.T.U., shall be applicable to persons attending the Assembly on behalf of Members and Associate Members of the Union and other bodies invited, and officials of the Union, as well as their families. The inviting Administration shall apply without reservation the provisions of the International Telecommunication Convention (Montreux, 1965) to such persons and shall permit them to enter Argentina and sojourn therein throughout the duration of their function or mission in connection with the Conference or Meeting.

c) Staff provided by the inviting Administration and locally recruited shall, however, enjoy only an immunity from legal process in respect of words spoken or written and all acts performed by them in their official capacity in the Assembly.

#### 5. *Languages*

Provision will be made for the use of languages in accordance with numbers 787 and 788 of the General Regulations annexed to the Montreux Convention.

#### 6. *Cancellation or change in the place and/or dates of the Meeting*

If the Meeting is cancelled at the request of the inviting Administration, the latter shall bear all the expenses incurred by it for the preparation of the Meeting. Should the place and/or date be changed at the request of the inviting Administration, it shall likewise bear all the expenses incurred as a result of such change or changes.

If the Meeting is cancelled, or the place and/or dates changed as a result of a decision taken by the I.T.U., the responsibility of the Union towards the inviting Administration shall be limited to the financial commitments assumed by the latter, or to the expenses it has actually incurred in preparing the Meeting, to the extent that the expenses incurred are indispensable and cannot be reduced or written off.

### **B. Premises and furniture**

7. The premises which are to be placed entirely at the disposal of the Meeting are described in Annex A and the attached plans<sup>1</sup>.

8. Annex A also indicates for each room the period during which it should be reserved exclusively for the Meeting; this should include the time required for installing equipment and clearing the room afterwards.

9. The furniture and equipment required for each room or office are also given in Annex A.

10. Pigeon-holes will be available for document distribution; they should be large enough to hold documents of A4 format (21 × 30 cm) and at least 10 cm in height. They should be numbered very clearly.

11. The inviting Administration will be responsible for the upkeep and cleaning of the premises and should make any simple installations it considers necessary.

12. Premises will be made available to the I.T.U. for storing the packing cases and equipment brought by the Union.

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<sup>1</sup> These plans are not annexed to the present document.

13. The inviting Administration will be responsible for general safety precautions on the premises and for insuring them against all risks.

Persons officially connected with the Meeting will have access to the premises at any time of the day or night; this access may also be extended to other persons, in the interests of the Meeting.

### **C. Various facilities made available to the Meeting and its participants**

#### **14. *General services***

The inviting Administration will make the following facilities available for the Meeting:

- one room with writing materials for the delegates;
- one cloakroom;
- one reception and information office;
- one system for calling delegates;
- one cafeteria and canteen which will open at the least one hour after the arrival of the staff for the Meeting and remain open until at least one hour before the end of the service period;
- one first-aid room;
- one post and telecommunications office, with telephone booths and telex installations;
- one currency exchange office;
- one travel agency.

#### **15. *Telephone connections***

The inviting Administration will connect all the offices or rooms used for the Meeting to the internal telephone network, which will be permanently manned. The following offices and services will also be connected directly to the public network: Chairman, Secretary-General of the I.T.U., Director, Senior Counsellor and C.C.I.T.T. Administrator, document reproduction service, typing pool and documents service.

#### **16. *Telegraph and telephone privileges***

The inviting Administration will take the necessary steps to allow participants to enjoy the telegraph and telephone franking privileges mentioned in Opinion No. 1 of the Ordinary Administrative Telegraph and Telephone Conference (Geneva, 1958). The scope of these privileges will be notified to participants if possible before the opening of the Meeting.

#### **17. *Accommodation***

The inviting Administration will provide the C.C.I.T.T. Secretariat in due course with information on accommodation for participants (list of hotels open, prices, distance from the meeting place, etc.). It may out of courtesy, if it so wishes, and should it be requested, book rooms for those attending the Meeting (including I.T.U. staff) and the persons accompanying them. Bills relating to room bookings and other services provided by hotels will be the responsibility of participants and should be settled by them.

#### **18. *Material supplied to participants***

The inviting Administration will supply each participant with:

- an identity card,

- a badge,
- a guide with useful information on the premises and facilities available to delegates,
- some office equipment for general use.

#### 19. *Visas and customs formalities*

The inviting Administration shall take the necessary steps, within the limits set by the law and the customs regulations of the country and in accordance with the relevant provisions of the Convention on the Privileges and Immunities of the Specialized Agencies to facilitate as far as possible for participants in the Meeting (including the Secretariat) and for the persons accompanying them, delivery of visas and customs formalities in connection with their personal effects, on both entering and leaving the country.

### D. **Staffing**

#### 20. *Staff requirements*

The list of staff requirements for the Meeting is given in Annex B. The staff listed in the column "From Geneva" will be supplied or recruited outside Argentina by the I.T.U. The staff listed under "Local" will comprise the following categories:

- a) staff recruited in Argentina directly by the I.T.U.;
- b) staff supplied through Argentine secretarial agencies;
- c) staff detached by the inviting Administration, free of charge or otherwise;
- d) staff for services which are the responsibility of the inviting Administration (liaison officers, reception and related services, staff working for the Argentine delegation or for the Chairman of the Meeting, etc.).

Staff in category c) detached free of charge and those in category d) are marked with the sign<sup>o</sup> in Annex B. All staff in categories a) to c) will be placed under the control of the Director who will be at liberty to delegate this authority as he sees fit.

21. If, however, the inviting Administration is unable to provide all the staff required, it shall inform the C.C.I.T.T. in good time, and not later than 1 July 1968, so that the necessary arrangements may be made.

22. The selection and numbers of staff mentioned in 20 d) are left to the discretion of the inviting Administration.

23. The inviting Administration should designate one or several liaison officers competent to settle, together with the officials nominated by the Director, all questions concerning the application of this agreement and the secretarial work of the Meeting.

#### 24. *Dates of service*

The dates between which the staff will normally be called upon to work are given in Annex B.

The dates given for staff supplied or recruited by the I.T.U. may be changed by the Director (for example in view of travel requirements).

For staff provided by the Argentine Administration, the dates may be changed by agreement between the C.C.I.T.T. and the inviting Administration.

25. *Salaries, subsistence allowances, insurance and working hours*

The I.T.U. regulations on salaries, subsistence allowances, working hours and overtime shall apply to the staff recruited directly by the I.T.U.

26. Staff supplied locally by the secretarial agencies and paid by those agencies shall not be regarded as I.T.U. staff and will work under the full legal responsibility of their employer. This also applies to all insurance questions.

27. Staff may be required to work between 8 a.m. and midnight, including Saturdays (especially Saturday, 12 October).

28. Staff provided against payment by the inviting Administration will be subject to the relevant legislative provisions of the Argentine Republic, in accordance with local practice and the fact that all expenditure under this head is settled by the inviting Administration in local currency. The sums to be paid by the I.T.U. in conformity with Section G shall not exceed the amount which would have been attained had the staff been paid salaries and allowances in accordance with the rates in force at the I.T.U.

29. The inviting Administration shall supply the C.C.I.T.T., by 1 July 1968, with the scale of salaries and allowances for staff provided against payment. Any changes made after that date should be notified to the C.C.I.T.T. as soon as possible.

30. For staff provided against payment by the inviting Administration (see 20 c) above), the normal working week will be of 40 hours, with overtime paid by the I.T.U.

**E. Office machines and technical equipment**

31. The requirements in office machines and technical equipment for the Meeting are given in Annex C. Items marked with an asterisk will be supplied by the C.C.I.T.T. and the others by the inviting Administration or its agent, either free of charge (marked with the sign<sup>o</sup>) or on hire.

If the inviting Administration is unable to provide some of these items, it should inform the C.C.I.T.T. by 1 July 1968 at the latest so that the necessary arrangements may be made.

It is understood, in particular, that the inviting Administration will supply free of charge all the simultaneous interpretation equipment required for the Meeting and that it will be responsible for its maintenance and operation.

32. The inviting Administration will also send to the Director, by 1 July 1968, a list of prices (rentals or otherwise) for those items which it is prepared to supply against payment. The Director may, on the basis of this list, decide to supply any item which can be provided more economically by the I.T.U.

33. Costs relating to office machines and technical equipment which are not supplied free by the inviting Administration will be included in the Meeting budget and the amounts advanced for this purpose will be refunded in Swiss francs, in conformity with 38 e) below.

**F. Supplies for the reproduction service and office supplies**

34. A list of supplies for the reproduction service and office supplies is given in Annex D. The articles marked with an asterisk will be provided by the I.T.U., and the others by the inviting Administration, either free of charge (those marked with the sign<sup>o</sup>) or against payment.

If the inviting Administration is unable to provide some of this material, it should warn the C.C.I.T.T. not later than 1 July 1968 so that the necessary arrangements may be made to obtain it.

35. The inviting Administration will send to the Director, also by 1 July 1968, a list giving the prices of all the articles it can provide. The Director, on the basis of this list, may decide to supply any item which can be provided more economically by the I.T.U.

36. Costs of office and other supplies procured by the inviting Administration (except for those listed in Annex D and followed by the sign °, which are debited to the inviting Administration) will be included in the Meeting budget and the amounts advanced for this purpose will be refunded in Swiss francs, as mentioned in 38 d).

## G. Financial arrangements

### 37. *Expenses for which the inviting Administration is responsible*

The inviting Administration will be responsible for:

- a) work done on the premises in preparation for the Meeting;
- b) the installation and operation of the simultaneous interpretation equipment and the telephone, telegraph and telex services made available for the Meeting;
- c) the rental of the premises, including the furniture described in Annex A, upkeep, heating, cleaning, caretaker service and insurance;
- d) salaries, allowances and incidental expenses of staff in the services for which the inviting Administration is responsible (see 20 d above);
- e) salaries, allowances and incidental expenses of the staff supplied free of charge to help with the secretarial work of the Meeting (see 20 c);
- f) machines and supplies provided free, in accordance with 31 and 34 above;
- g) material supplied to participants, as in 18 above;
- h) entertainment and receptions organized by the inviting Administration (see A.C. Resolution No. 83, amended).

### 38. *Expenses to be borne by the I.T.U.*

The I.T.U. shall bear the cost of:

- a) salaries and, where appropriate, allowances and travel expenses for all staff detached from or recruited by the I.T.U., including those persons employed through a local agency, under the terms of 26;
- b) salaries and, where appropriate, allowances and travel expenses of staff provided by the inviting Administration against payment, in accordance with Annex B. The amounts to be refunded for this purpose by the I.T.U. will be fixed in the light of 28 above, and will be paid in Swiss francs;
- c) overtime for staff detached by the Administration free of charge, in accordance with Annex B and 20 c) above;
- d) supplies of all kinds requested by the C.C.I.T.T. which do not come under the responsibility of the inviting Administration by virtue of Nos. 31 and 34;
- e) rental of machines, which the inviting Administration is unable to provide free of charge, particularly document reproducing machines.

### 39. *Advances*

The inviting Administration will advance to the I.T.U. sufficient funds, in local currency, to cover its local secretarial expenses which have to be paid in Argentine pesos.

The I.T.U. will refund the inviting Administration, in Swiss francs, the amounts advanced. The Administration will not charge the I.T.U. interest on this advance during the 30 days following the receipt of the final accounts of the Meeting by the Secretary-General of the I.T.U. If the amount has not been refunded when this period expires, the Argentine Administration will be paid interest at the rate of 4% per annum. The Secretary-General of the I.T.U. shall give the necessary instructions that the amount be entirely refunded by 31 January 1969 at the latest, provided that the final accounts have been forwarded to him at least one month before that date.

## H. *Miscellaneous*

### 40. *Taxation*

The salaries and allowances paid to persons directly recruited by the I.T.U. are not subject to income tax in Argentina, in conformity with the terms of the Convention on the Privileges and Immunities of the United Nations and its specialized agencies.

### 41. *Insurance*

The inviting Administration will provide all the necessary information on a suitable insurance system, covering persons working for the Meeting (and their personal effects) in the premises where the Meeting is to be held. The I.T.U. will insure staff (and their personal effects) recruited outside Mar del Plata for the whole duration of the Meeting.

### 42. *Amendments to this Agreement*

Any amendment to this Agreement shall be signed in the same way as the Agreement itself and will appear in an annex. However, as the figures given for staff numbers, categories of staff, furniture and equipment may be subject to slight changes, those alterations will be made by mutual agreement in accordance with the circumstances without being considered as "amendments" in the sense intended above.

Done and signed in two identical copies

At Geneva on

At Buenos Aires on

For the Secretary-General of the I.T.U.  
The Director of the C.C.I.T.T.

For the Administration  
of the Argentine Republic



## ANNEX A TO THE AGREEMENT

*Description of the premises provided for the IVth Plenary Assembly of the C.C.I.T.T.,  
indicating the furniture supplied by the inviting Administration*

Ref. No.	Purpose	Furniture	Suggested place	Period of use	
				Beginning	Ending
	<i>Meeting rooms</i>	(See below for equipment common to all meeting rooms)			
A	Plenary hall (for plenary meetings and Study Group meetings)	<ul style="list-style-type: none"> <li>— 400 seats, with a working desk for each</li> <li>— Rostrum with room for 10 people</li> <li>— Table for minute-writers for 3 people</li> <li>— Simultaneous interpretation equipment with 4 booths, 1 operator's desk, receivers at each seat, 1 microphone for every 4-5 seats, 1 blackboard microphone</li> </ul>	Gran salon	23-IX	25-X
B	Large committee room	<ul style="list-style-type: none"> <li>— 150 seats with a working desk for each</li> <li>— Rostrum for 6 people</li> <li>— Simultaneous interpretation equipment with 4 booths, 1 operator's desk, receivers at each seat, 1 microphone for every 4-5 seats, 1 blackboard microphone</li> </ul>	Casino	23-IX	25-X
C and D	Two committee rooms each with:	<ul style="list-style-type: none"> <li>— 80 seats with a working desk for each</li> <li>— Chairman's table for 4 persons</li> <li>— Simultaneous interpretation equipment with 4 booths, 1 operator's desk, receivers at each seat, 1 microphone for every 4-5 seats, 1 blackboard microphone.</li> </ul>	Room C Room D	23-IX 23-IX	25-X 12-X
Rooms 1 2 3	Two committee rooms each with:	<p>About 40 seats with a working desk for each</p> <p><i>Equipment common to all meeting rooms</i></p> <p>Each room should have:</p> <ul style="list-style-type: none"> <li>— 1 large blackboard, with coloured chalk and sponge</li> </ul>	Los Naranjos grill room (to be divided by partitions as high as possible)	23-IX 23-IX 23-IX	25-X 25-X 25-X



Ref. No.	Purpose	Furniture	Suggested place	Period of use	
				Beginning	Ending
1	<i>Offices and service rooms</i>	<ul style="list-style-type: none"> <li>— 1 messenger's table with telephone (muffled bell) (Rooms A, B, C, D only)</li> <li>— 1 large table for documents</li> <li>— waste-paper baskets</li> <li>— name cards (preferably two-sided) for countries and international organizations, cards for the rostrum (not necessary for Rooms 1, 2, 3)</li> <li>— stands for these cards</li> <li>— white cardboard, same size as cards</li> <li>— set of glasses and water jug</li> <li>— ash trays</li> <li>— pencil-sharpener</li> </ul>	Ground floor	20-IX	26-X
	Registration of delegates	<p>Room to be divided into two by a counter:</p> <p>a) Delegates' side: 4 large tables, 20 chairs, writing materials</p> <p>b) Secretariat side: 5 tables, 5 chairs, 5 typing desks, 5 typist's chairs, shelving (16 metres)</p> <p><i>Note.</i>—On 23-IX and 14-X the equipment on the secretariat side will be increased to make 10 places for typing. This can be done by taking equipment from the typing pool; room has to be provided for this extension.</p>			
2	Reception, information	— at the discretion of the inviting Administration	Ground floor		
3	Documents distribution	<p>Numbered pigeon-holes for 1000 participants, for A4 format at least, with</p> <ul style="list-style-type: none"> <li>— language strip (3 colours)</li> <li>— special indications slip</li> </ul> <p>Table for packets of documents coming from the document reproduction service</p> <p>Stapler, perforating machine (for delegates' use also)</p> <p>Shelving for stocks of distributed documents (100 metres)</p> <p>1 desk, 2 tables, 6 chairs</p>	Bridge room	20-IX	26-X

Ref. No.	Purpose	Furniture	Suggested place	Period of use	
				Beginning	Ending
4	Director of the C.C.I.T.T.	1 desk, 1 cupboard (with lock), 1 table, 6 armchairs, 2 chairs, 1 low table, 1 table lamp, carpet	136	16-IX	26-X
5	Secretary to the director	1 desk, 2 tables for sorting documents, 1 typing desk, 1 typist's chair, 1 chair, 2 armchairs, 1 table lamp, shelving (minimum 6 metres)	136b	16-IX	26-X
5bis	Director's waiting room	1 table, 4 armchairs	Anteroom to 136 (136a)	16-IX	26-X
6	Handing in of original documents and document planning	2 desks, 1 cupboard, 1 large table, 3 chairs, 2 typing desks and 2 typist's chairs, 2 table lamps, shelving (10 metres)	138	16-IX	26-X
7	General assistant	1 desk, 1 typing desk, 1 table, 1 chair, 1 typist's chair, 1 table lamp, shelving	121	16-IX	26-X
8	Liaison officers	(To be decided by the inviting Administration)	144	13-IX	28-X
9	Administrator	1 desk, 4 chairs, 1 safe, 1 cupboard (with lock), 1 table for sorting documents, 1 table lamp, shelving (at least 6 metres)	142	13-IX	28-X
9bis	Assistants to the administrator	2 desks, 4 chairs, 1 table for documents, 2 table lamps, shelving (at least 6 metres)	140	13-IX	28-X
10	Senior counsellor (Telegraph, Data and Plan Dept.)	1 desk, 1 table, 1 cupboard (with lock), shelving (at least 10 metres), 2 chairs, 2 armchairs, 1 table lamp	136c	20-IX	26-X
11	Assistant to senior counsellor and assistant to counsellor 12	2 desks, 2 typing tables, 2 tables, 2 chairs, 2 typist's chairs, 2 table lamps, shelving (at least 6 metres)	136d	20-IX	26-X
11bis	Engineers (Data and telegraph)	2 desks, 2 tables, 1 cupboard, shelving (10 metres), 4 chairs, 2 table lamps	134	20-IX	26-X
12	Counsellor (Telephone)	1 desk, 1 cupboard, 1 table, 1 armchair, 3 chairs, 1 table lamp	132	20-IX	26-X
13	Engineers (Telephone and transmission)	As 11 bis	130	20-IX	26-X
14	Counsellor	As 12	128	20-IX	26-X

Ref. No.	Purpose	Furniture	Suggested place	Period of use	
				Beginning	Ending
15	Assistants to counsellor 14 and engineer 16	As 11	126	20-IX	26-X
16	Engineer (Maintenance)	As 12	124	20-IX	26-X
17	Engineers (Maintenance and Plan)	As 11 bis	122	20-IX	26-X
18	Secretariat documents	3 tables, 3 chairs, shelving (250 metres) (N.B. floor load capacity)	117 115 and un-numbered room	16-IX	26-X
19	Draughtsman and photocopiers	1 draughtsman's table, equipped, 1 cupboard (with lock), 1 table, 2 chairs, shelving (6 metres), space and power plug for automatic stenciller and photocopier	116	20-IX	25-X
20	Chief messenger and messengers	1 desk, 6 chairs, 1 shelf (6 metres), 1 table	119	16-IX	28-X
21	Document service reproduction	Space for 10 Gestetner machines with power plugs, 1 desk, 12 chairs, 6 tables for document assembly, 2 tables, shelving (30 metres)	Ground floor	20-IX	26-X
21 bis	Chief of the document reproduction service and liaison officer for the service	2 desks, 3 chairs, 1 cupboard with lock, 1 table for documents	Ground floor (Near 21)	20-IX	25-X
22	Paper store room		Ground floor (Near 21)	16-IX	28-X
23	Document stocks	3 tables, 3 chairs, 200 metres shelving	Ground floor	16-IX	28-X
24	Head of typing pool	1 desk, 2 chairs, 1 cupboard with lock, 1 typing desk, 1 typist's chair, 1 table lamp, 1 table for documents	Ground floor	20-IX	25-X
25	Typing pool	30 typing desks, 30 typist's chairs, 2 desks, 4 chairs, 32 table lamps, shelving (30 metres), 1 cupboard with lock	Ground floor	20-IX	25-X
26	Document checking		Ground floor	20-IX	25-X
27	Stencil workshop		(with 24)	16-IX	25-X
28	(Pro mem.)				
29	Language service secretariat and documents	1 desk, 2 chairs, 1 table, 2 typing desks, 2 typist's chairs, shelving (10 metres)	113	20-IX	25-X
30	Head of Spanish translation section and Spanish revisers	2 desks, 4 chairs, 1 cupboard, shelving (6 metres)	114	20-IX	25-X

Ref. No.	Purpose	Furniture	Suggested place	Period of use	
				Beginning	Ending
30 <i>bis</i>	Spanish translators (3 offices, each with):	2 desks, 3 chairs, 2 typing desks; 2 typist's chairs, 1 cupboard, shelving (6 metres)	112 110 108	20-IX	25-X
31	Translation office	1 desk, 2 chairs, 2 typing desks, 2 chairs	106	20-IX	25-X
32	Head of French translation section and reviser	As office 30	111	20-IX	25-X
32 <i>bis</i>	French translation (2 offices)	Each as office 30 <i>bis</i>	109 107	20-IX	25-X
33	Head of English translation section and reviser	As office 30	105	20-IX	25-X
33 <i>bis</i>	English translation (2 offices)	Each as office 30 <i>bis</i>	103 101	20-IX	25-X
34	Interpreters	2 tables, 10 chairs, 2 cupboards, shelving (20 metres)	Television room	23-IX	25-X
35	Chairman of the Assembly	At the discretion of the inviting Administration	120	20-IX	26-X
36	Secretary to the Chairman	<i>idem</i>	120b	20-IX	26-X
36 <i>bis</i>	Waiting room	As office 136a	120a	20-IX	26-X
37	I.T.U. Secretary-General	As office 4	120c	20-IX	26-X
38/39	C.C.I.R.	2 desks, 4 chairs, 1 cupboard, shelving (10 metres)	118	20-IX	26-X
40	( <i>Pro mem.</i> )				
41	Editing office for Study Group chairmen	2 tables, 6 chairs, shelving (6 metres)	146	23-IX	25-X
42	( <i>Pro mem.</i> )				
43	Premises for packing cases Storeroom for the cases used for transporting material from the I.T.U.	Space for 80 cases	Basement	18-IX	29-X
44	Despatch office (Room where delegates can pack and send off their documents)	4 large tables, wrapping paper, labels, string, scissors, sticky paper  In every working room or office, except for those used for storage there should be: an internal telephone; an internal telephone directory; ashtrays, waste-paper basket(s), coat rack, if possible	Ground floor (near the Post Office)	23-IX	26-X

## AUXILIARY RECEPTION SERVICES AT THE DISPOSAL OF PARTICIPANTS

*I. On the ground floor*

- a) post office;
- b) telegraph office and, if possible, a telex service;
- c) telephone office and kiosks (with writing shelf);
- d) travel agency;
- e) bank.

*II. On the first floor*

- a) cloakroom with 600 pegs;
- b) bar;
- c) ladies' waiting room;
- d) writing room for delegates;
- e) first-aid room (room 148);
- f) notice-boards and blackboards (timetable and place of meetings, provisional notices, service announcements, plan of the building, map of the town).

ANNEX B TO THE AGREEMENT<sup>1</sup>*Staffing for the IVth Plenary Assembly**I. C.C.I.T.T. Secretariat staff*

Duties	Number <sup>1</sup>	Takes up service	End of service
Director . . . . .	1	16 — IX	26 — X
Director's secretary . . . . .	1	16 — IX	26 — X
Senior Counsellor . . . . .	1	20 — IX	26 — X
Assistant to Senior Counsellor . . . . .	1	20 — IX	26 — X
Heads of department . . . . .	3	20 — IX	26 — X
Department engineers . . . . .	5	20 — IX	26 — X
Department assistants . . . . .	3	20 — IX	26 — X
Plan engineer . . . . .	1	14 — X	26 — X
Administrator . . . . .	1	13 — IX	28 — X
Assistant-administrator . . . . .	1	13 — IX	28 — X
Deputy administrator, Chief of document publication . . . . .	1	16 — IX	26 — X
General assistant . . . . .	1	16 — IX	26 — X
Chief, document distribution . . . . .	1	20 — IX	26 — X
Total	21		

<sup>1</sup> Subject to any amendments made after 1 July 1968.

II. *Staff to be recruited*

The staff marked ° is provided free of charge by the inviting Administration.

Duties	Total number	Coming from		Takes up service	End of service
		Geneva	Local		
Assistant administrator . . . . .	1	1		13 — IX	28 — X
Deputy Assistant-administrator (documents) . . . . .	1	1		16 — IX	26 — X
Deputy Chief, document distribution . . . . .	1	1		20 — IX	26 — X
Document distribution clerks . . . . .	5°		5°	20 — IX	28 — X
Chief messenger . . . . .	1	1		16 — IX	28 — X
General service messengers . . . . .	6°		6°	16 — IX	29 — X
Meeting room messengers . . . . .	4°		4°	20 — IX	26 — X
Draughtsman . . . . .	1°		1°	20 — IX	25 — X
Roneo liaison officer . . . . .	2	2		20 — IX	25 — X
Head of the Roneo service . . . . .	1		1	20 — IX	25 — X
Roneo operators and assemblers . . . . .	18		18	20 — IX	25 — X
Registration of delegates . . . . .	5	1	4	20 — IX	25-X for the official sent from Geneva and 2 local staff, 18-X for the other 2 local officials
Liaison officers . . . . .	4°		4°	16 — IX	29 — X
Reception services . . . . .	7°		7°	20 — IX	26 — X
Chief, typing pool . . . . .	1	1		20 — IX	25 — X
Assistant chief, pool . . . . .	1	1		20 — IX	25 — X
Heads, English section . . . . .	2	2		20 — IX	25 — X
Heads, French section . . . . .	2	2		20 — IX	25 — X
Heads, Spanish section . . . . .	2	2		20 — IX	25 — X
Typists, English . . . . .	8	6	2	20 — IX	except for 6 locally recruited staff (2E, 2F, 2S who end on 18-X)
Typists, French . . . . .	8	6	2	20 — IX	
Typists, Spanish . . . . .	8	0	8	20 — IX	
Typists, English language service . . . . .	2	1	1	20 — IX	25 — X
Typists, French language service . . . . .	2	1	1	20 — IX	25 — X
Typists, Spanish language service . . . . .	2	1	1	20 — IX	25 — X
Carried forward	88	30	58		

Duties	Total number	Coming from		Takes up service	End of service
		Geneva	Local		
Brought forward	88	30	58		
Interpreters, English . . . . .	8	8	0	23 — IX	half until 25-X half until 11-X
Interpreters, French . . . . .	8	8	0	23 — IX	
Interpreters, Spanish . . . . .	8	0	8 ITU	23 — IX	
Interpreters, Russian . . . . .	8	8	0	23 — IX	
Multilingual interpreters . . . . .	4	4	0	23 — IX	
Interpretation equipment technicians . . . . .	4 <sup>o</sup>		4 <sup>o</sup>	23 — IX	1 until 12-X 3 until 25-X
Translators, English . . . . .	5	3	2 ITU	20 — IX	locally recruited staff until 18-X others until 25-X
Translators, French . . . . .	5	3	2 ITU	20 — IX	
Translators, Spanish . . . . .	8	3	5 ITU	20 — IX	
	146	67	79		
Brought forward from C.C.I.T.T. .	21				
	167				

ANNEX C TO THE AGREEMENT<sup>1</sup>*Office machines and technical equipment*

Items marked with an asterisk will be provided by the C.C.I.T.T. and the others by the inviting Administration or by their agents, either free of charge (marked with the sign °) or rented.

- 8 Gestetner mimeograph machines (may be increased to 10).
- Staplers for mimeograph service (supplied by the concessionary agent for the service).
- 5 Gestefax automatic stencillers.
- 2 Xerox machines.
- 30 typewriters °.
- 50 typewriters<sup>1</sup> sent from Geneva.
- 2 trolleys ° for transporting documents.
- (*Pro mem.*) 4 complete sets of simultaneous interpretation equipment, as detailed in annex A.
- (*Pro mem.*) Various technical items °, as detailed in annex A.

ANNEX D TO THE AGREEMENT<sup>1</sup>*Supplies for the reproduction service and office supplies*

All these supplies will be obtained by the inviting Administration and billed to the C.C.I.T.T.

- About 8000 brown stencils (to be delivered by the Gestetner company, according to requirements).

<sup>1</sup> Subject to any amendments made after 1 July 1968.



2. About 500 Gestefax stencils (to be delivered by the Gestetner company, according to requirements).
3. 800000 sheets of *white* A4 duplicating paper.
4. 200000 sheets of *blue* A4 duplicating paper.
5. 200000 sheets of *pink* A4 duplicating paper.
6. 200000 sheets of *green* A4 duplicating paper.
7. 200 packets of ordinary white A4 paper (about 50 sheets per packet).
8. Tracing paper (according to requirements).
9. Staples for the mimeograph service (to be supplied by the concessionary agent).
10. Pencils of various colours, rubbers, pins, staples, paper clips, etc. (a small supply to be issued to each office and renewed as necessary).
11. Chalk, different colours.

### ANNEX II/3

#### Franking privileges

In the international service, the inviting Administration grants the telegraph and telephone franking privileges mentioned in Opinion No. 1 of the Ordinary Administrative Telegraph and Telephone Conference (Geneva, 1958).

In the inland service, the inviting Administration has kindly granted postal as well as telegraph and telephone franking privileges, which it wishes to extend to all participants in meetings.

### Part III

#### FINANCIAL REQUIREMENTS OF THE C.C.I.T.T. UNTIL THE Vth PLENARY ASSEMBLY

##### 1. Staff requirements

It is not, of course, for the Assembly to take decisions on staff requirements; these fall entirely within the competence of the Administrative Council. Nevertheless, as the body which establishes the programme of work up to the next Assembly, the Assembly is best fitted to estimate the number of staff required to do the work. Moreover, under No. 781 of the General Regulations annexed to the Montreux Convention, it has to "approve an estimate of the financial needs of the Committee . . . for submission to the Administrative Council". In my view, this approval should be accompanied by some comment and the estimate submitted to the Council should be marked either "fully approved by the Plenary Assembly" or "approved by the Plenary Assembly, except for such and such an item".

In this way, the Council, whose right of deciding, in the full exercise of its sovereignty, whether new posts are to be created, is unquestioned, will have before it an infinitely more authoritative opinion on the matter than that of the Director of the C.C.I.T.T.

My views on the staff required are given in annex III/1 of this report. They may be revised, if necessary, in the light of the decisions of the Plenary Assembly.

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<sup>1</sup> Subject to any amendments made after 1 July 1968.

## 2. Expenditure for future meetings of Study Groups and of the Vth Plenary Assembly

It is obviously impossible to estimate expenditure for meetings during the new study period at all accurately until the Plenary Assembly has fixed the programme of work for that period.

The provisional estimate in annex III/2 is based on experience acquired with regard to expenditure on meetings and on an annual average of 350 meeting days, which is the average for 1965–1968, plus 15% to take into account the probable increase in the volume of work. The estimate for 1969–1971 reproduces the figures which served as a basis for calculating the ceiling for expenditure on conferences and meetings at the Plenipotentiary Conference (Montreux, 1965).

### ANNEX III/1

1. I have often referred already to the constant increase in the volume of work falling on the C.C.I.T.T. Secretariat (e.g. Report on Activities, annex to circular 132, etc.). This steady growth must be viewed against the truly modest size of the Secretariat staff. The very limited number of officials and their high degree of specialization makes it impossible for the departments to help each other and subjects the staff to a system of peak periods and emergencies which too often severely taxes their working capacity and endurance.

2. It is naturally difficult to make any firm proposals now for the creation of new posts, as the Plenary Assembly may well decide to reorganize the Study Groups and to adopt new methods of work. I believe, however, that whatever the outcome of the Assembly's debates may be, the work load of the Secretariat will in no case be reduced. C.C.I.T.T. activities have entered into a stage of constant and irreversible expansion, and the Assembly's decisions are likely to take the form of a possible redistribution of work among the Study Groups, rather than a reduction in the strength of the Secretariat, which is quite out of the question.

3. To avoid any misunderstanding, however, I should like to reiterate that the Administrative Council alone is competent to authorize the creation of posts. But under No. 807 of the General Regulations, and as I have already pointed out in the introduction to this report, the proposals which I shall submit to the Council in this connection must be based on the estimate of financial needs approved by the Plenary Assembly. This estimate will have to be approved by the Plenary Assembly (No. 781 of the General Regulations annexed to the Montreux Convention) and submitted with the Assembly's comments to the Administrative Council, to enable the latter to take its decisions in full knowledge of the facts.

4. In any case, I believe that the following measures should be considered, to enable the C.C.I.T.T. Secretariat not only to carry out its duties with the necessary care, but actually to deal with the increasing volume of its tasks:

- a) Creation of a P5 post for a Head of Department and a G5 post for an Assistant, with a view to establishing a new Plan and Technical Assistance Department, which would keep the three posts already assigned to those activities, namely, one P3, one P2 and one G5;
- b) Strengthening of the Transmission and Laboratory, Telephone Operation and Switching, and Maintenance, Protection, Definitions and Symbols Departments by the creation of one P3 engineer's post in each Department;

- c) Strengthening of four technical departments (except the above-mentioned Plan and Technical Assistance Department) by engaging four G5 assistants;
- d) Creation of three posts for P3 technical editors, one to work in French, another in English and the third in Spanish;
- e) Creation of a post for a G5 assistant in the administrative services of the Secretariat.

This would entail the creation of a total of 13 posts (1 P5, 6 P3, 6 G5).

5. In addition to these new posts, some regrading would be necessary to align certain C.C.I.T.T. posts with comparable posts in other organs of the I.T.U. and in other international organizations. As I have explained in annex I/1 (page 6) of this report, several posts in the Secretariat and Laboratory have recently been regraded by the Administrative Council in pursuance of Resolution No. 6 of the Plenipotentiary Conference (Montreux, 1965), and of Resolutions Nos. 608 and 625 of the Administrative Council. I have thus obtained satisfaction for a large proportion of the regrading which seemed to be obviously essential.

However, in taking its decisions, the Administrative Council left the higher posts aside, postponing their grading until a later date. Nevertheless, the vital importance of two posts in the C.C.I.T.T. Secretariat leads me to reiterate my request for the regrading of their incumbents. The descriptions of these two posts are as follows:

<i>Present holder</i>	<i>Present duties</i>	<i>Present grade</i>	<i>Proposed grade</i>
Mr. Besseyre	Senior Counsellor in charge of General Affairs, Head of the Telegraph and Data Transmission Department and Head of the Plan and Technical Assistance Department	D1	D2
Mr. Lalou	Head of the Transport and Laboratory Department	P5	D1

### ANNEX III/2

#### Budgets of C.C.I.T.T. meetings

<i>Staff expenditure</i>	1969	1970	1971	1972
Administration . . . . .	160 000	220 000	240 000	320 000
Language services . . . . .	480 000	630 000	660 000	950 000
Roneo . . . . .	40 000	50 000	60 000	80 000
Insurance . . . . .	80 000	40 000	40 000	50 000
	710 000	940 000	1 000 000	1 400 000
<i>Premises, equipment and sundry</i>				
Premises, furniture, machines	20 000	20 000	30 000	30 000
Document production . . . . .	90 000	120 000	130 000	200 000
Supplies and overheads . . . . .	160 000	200 000	220 000	350 000
Simultaneous interpretation and other technical installations . . . . .	—	—	—	—
Unforeseen . . . . .	20 000	20 000	20 000	20 000
	290 000	360 000	400 000	600 000
	1 000 000 <sup>a</sup>	1 300 000	1 400 000	2 000 000

<sup>a</sup> Plus 300 000 francs in case of need, subject to approval by the Administrative Council at its 1969 session.

REPORT BY COMMITTEE D

**QUESTIONS CONCERNING  
THE NEW AND DEVELOPING COUNTRIES**

*(as amended and approved by the IVth Plenary Assembly on 23 October 1968)*

**1. Terms of reference of the Committee**

Consideration of the report on technical assistance:

- a) to examine the work done by the C.C.I.T.T. in the field of technical assistance;
- b) to study ways and means by which the C.C.I.T.T. can continue and improve its participation in technical assistance activities.

Consideration of the report on the work of the Plan Committees during the third study period of the C.C.I.T.T. (1964–1968).

**2. Role of the C.C.I.T.T. in the field of technical assistance**

2.1 The Committee recalled that the C.C.I.T.T. was, by its very nature, a technical assistance organ, as was the C.C.I.R. The recommendations of the C.C.I.s gave new and developing countries information and advice which was directly applicable to their international telecommunication services and was also very useful for their national services.

2.2 The Committee also recalled that in 1965 the I.T.U. Plenipotentiary Conference which met in Montreux confirmed the duties of the Consultative Committees as far as technical assistance was concerned in Nos. 188 and 189 and Resolutions Nos. 28 and 29 of the Convention.

**3. Decisions of the IIIrd Plenary Assembly of the C.C.I.T.T. and their implementation**

3.1 In its report on Technical Assistance, the IIIrd Plenary Assembly (*Blue Book*, Volume I, page 179 *et seq.*) drew up a programme of action to enable the C.C.I.T.T. to fulfil the tasks assigned to it in the field of technical assistance.

The Committee considered the points of that programme one by one and noted with satisfaction that most of them had been dealt with by the Study Groups, the Special Autonomous Working Parties or the C.C.I.T.T. Secretariat.

As regards the preparation of extracts from the most important C.C.I. Recommendations in as clear and practical a form as possible, the C.C.I.T.T. Secretariat pointed out that a trial had been made with the Recommendations on transmission problems. It was not perhaps conclusive as each Recommendation usually consisted of a set of texts which had already been condensed; extracts could be misleading since important points might be omitted. The Secretariat would like to have some precise instructions on the matter. After noting that the provisions of the Recommendations were already presented in a more didactic form in the texts of the GAS Manuals, the Committee proposed that the Secretariat cease to publish such extracts.

3.2 The IIIrd Plenary Assembly set up five Special Autonomous Working Parties for technical assistance (GAS) to conduct studies on subjects of general scope but of national interest (No. 189 of the Convention).

The Working Parties had accomplished a great deal during the IIIrd period; the GAS 1, GAS 2 and GAS 5 Manuals have already been published, and those of GAS 3 and GAS 4 will be ready during 1969.

In emphasizing the important role of the GAS in the field of technical assistance, the Committee proposes, firstly, that the C.C.I.T.T. take the necessary measures to keep the Manuals already published up to date and, secondly, the setting up of appropriate Working Parties for questions connected with national tariffs and the drafting of a book on "earthing".

The IIIrd Plenary Assembly had also requested that an information centre be established at the I.T.U. to provide, on request, information on review articles, books, Union publications, C.C.I. documents, and, with the agreement of the administrations concerned, on documents prepared by administrations for their own use.

The Committee noted that the creation of such a centre came within the competence not of the C.C.I.T.T. but of the General Secretariat of the I.T.U., which should take steps to meet the request. The Secretary-General of the I.T.U. assured the Committee that the setting up of such a centre was envisaged within the reorganization of the I.T.U.'s information services, particularly as regards the library and the use of the I.T.U. computer.

#### **4. Suggestion for the future activities of the C.C.I.T.T. in the field of technical assistance**

After reviewing the C.C.I.T.T. programme of action in the field of technical assistance during the IIIrd period and discussing the action to be taken for the future, the Committee prepared the attached draft Resolution and proposed to the Plenary Assembly its adoption.

#### **5. Work of the Plan Committees during the third C.C.I.T.T. study period**

The C.C.I.T.T. Secretariat submitted to the Committee the Report by the Director of the C.C.I.T.T. on the work of the Plan Committees during the third C.C.I.T.T. study period. The Committee took note of the report and forwarded it to the Plenary Assembly.

The attention of the Committee was drawn to Opinion No. 5 (Examination at Regional Plan meetings of certain questions outside the Plan Committee's terms of reference) given on page 202 of Volume I of the *Blue Book*; the Committee proposed that the Opinion be retained.

#### ANNEX

(to the Report of Committee D)

#### **Draft Resolution on Technical Assistance**

(This draft Resolution, as amended and approved by the Plenary Assembly, replaces Resolution No. 3 of Volume I of the *Blue Book* and is published in Part II of this volume of the *White Book*.)

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## **PART II**

### **RESOLUTIONS ADOPTED AND OPINIONS EXPRESSED BY THE PLENARY ASSEMBLIES**

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## RESOLUTIONS

### RESOLUTION No. 1

#### **Additional rules of procedure of the C.C.I.T.T.**

*(Geneva, 1956; Geneva, 1958; New Delhi, 1960; Geneva, 1964, and Mar del Plata, 1968)*

The International Telegraph and Telephone Consultative Committee,

*in view* of Article 14, § 6 of the International Telecommunication Convention, Montreux, 1965;

*in view* of Chapter 11 and Chapter 16 of the General Regulations annexed to the Montreux Convention, 1965;

*decides*

that as far as the International Telegraph and Telephone Consultative Committee is concerned, the General Regulations annexed to the Montreux Convention (1965) shall be amplified as follows:

#### *I. Plenary Assembly (PA)*

1. a) If the PA meets at the seat of the Union, the precise date of its meeting shall be decided by the Director of the Committee in agreement with the Secretary-General of the Union. If the PA does not meet at the seat of the Union, the exact date of the meeting shall be decided by the inviting government in agreement with the Director of the Committee.

b) The Director of the Committee shall send an invitation to participate in the meeting of the PA to all Members and Associate Members of the Union. If a country which is a Member or Associate Member has already officially notified that a recognized private operating agency of its country will participate in the work of the C.C.I.T.T., the invitation will also be addressed to this recognized private operating agency. If a scientific or industrial organization is registered as participating in Study Groups of the C.C.I.T.T., the invitation will be sent to it for the preparatory meetings of these Study Groups.

If the PA does not meet at the seat of the Union, the Director shall send the above-mentioned invitation in the name of the inviting government.

c) Members or Associate Members of the Union which wish to participate in the meeting are required to advise the Director of the Committee, by letter or telegram, at least a month before the meeting, of the names of the delegates of administrations and representatives of recognized private operating agencies who will attend meetings of the preparatory Study Groups and meetings of the PA (and especially of the names of the heads of their delegations) as well as the names of experts of the scientific and industrial organizations who will attend meetings of the preparatory Study Groups only. The Director of the C.C.I.T.T. shall forward this information to the administration of the inviting government, if any.

d) The Director of the C.C.I.T.T. shall invite the Director and Vice-Director of the C.C.I.R., the United Nations, the Specialized Agencies of the United Nations which reciprocally allow representatives of the Union to attend their conferences, and the other international organizations whose work the Administrative Council considers should be co-ordinated with the work of the Union and whose activities are similar, to attend the PA in an advisory capacity. The United Nations, the Specialized Agencies and other international organizations are required to notify the names of their observers in the same way as specified in paragraph (c) for Members of the Union.

2. a) Before the opening meeting of the PA, the heads of delegations shall meet:

- i) to prepare the programme of work for the PA, based on proposals by the Director of the C.C.I.T.T. This shall be submitted to the PA at its first meeting. (This programme may contain proposals for the setting-up of committees for the duration of the PA);
- ii) to designate the persons who will be proposed as Vice-Chairmen and if necessary (meeting of the PA at the seat of the Union) as Chairman of the meeting of the PA;
- iii) to make proposals to the PA for the constitution of the "Budget Control Committee" called upon to examine the "Report on the financial needs of the Committee until the next PA and the expenses incurred by the current PA";
- iv) to make proposals for the constitution of the "Committee for the Work Programme of Study Groups" (see paragraph 5 below) and other committees of the PA which the heads of delegations might deem it advisable to set up;

b) Before the closing meeting of the PA, the heads of delegations shall meet to prepare proposals for the PA concerning:

- i) the constitution of Study Groups and Working Parties;
- ii) the designation of Study Group Chairmen and Vice-Chairmen and Working Party, when required to be set up, Chairmen (and Vice-Chairmen).

3. a) Recommendations submitted to a vote in the course of a PA shall be considered as adopted if they obtain a majority of votes; the minutes of the PA shall indicate the results of the vote without mentioning the delegations which voted for or against, unless a delegation expressly asks that its vote should be mentioned;

b) The corresponding recommendations shall also mention these results, in the form:

"The C.C.I.T.T. unanimously issues the recommendation ..." or "The C.C.I.T.T. issues, by a majority (of ... votes to ..., with ... abstentions), the recommendation ..."

c) When a country is not represented by an administration, the representatives of the recognized private operating agencies of that country shall, as a whole, regardless of their number, be entitled to a single vote.

4. The Plenary Assembly, on proposals from heads of delegations, shall set up Study Groups and, where appropriate, Working Parties. It shall designate Study Group Chairmen and Vice-Chairmen and, if it so desires, Chairmen and Vice-Chairmen of such Working Parties.

5. The PA shall set up a Committee on Study Group Programmes, composed of:
- the Chairmen of the Study Groups and of the Working Parties set up by the PA;
  - representatives of the delegations.

This Committee shall consider the questions proposed for study by the Study Groups (or proposed for further study). It shall decide whether they are suitable for study, and if so, check that there is no duplication of questions referred to different Study Groups, assemble associated questions, and submit a report to the PA setting forth the questions which it proposes for study and making suggestions for their apportionment among the Study Groups and Working Parties.

The Programme Committee shall submit for approval by the PA a draft programme of Study Group and Working Party meetings for the period up to the following PA.

6. On the proposal of the Programme Committee, the PA shall:

- prepare the list and text of questions requiring study or further study up to the following PA;
- allocate these questions to Study Groups and Working Parties;
- decide, when a question is of interest to several Study Groups, whether:
  - to set up a Joint Working Party composed of members of the Study Group concerned, or
  - to entrust the study to a single Study Group, the necessary co-ordination being effected within the framework of national organizations;
- set up co-ordination groups for each family of Study Groups; these groups shall be composed of the Chairmen and Vice-Chairmen of the Study Groups in the family concerned and shall carry out the necessary co-ordination for studies that are common to the Study Groups in the family;
- shall draw up, in general outline at least, a programme for the meetings to be held by Study Groups and Working Parties set up by the Assembly until such time as the Plenary Assembly meets again.

## II. *The Director*

1. The Director of the C.C.I.T.T. is empowered to enter into direct contact with the Chairmen and Rapporteurs of the Study Groups and Working Parties.

2. In order that the Director and his assistants may keep up to date on technical progress, administrations and private operating agencies (as far as circumstances permit) may authorize him to visit their installations and to obtain all necessary information; the expenses incurred in this connection are chargeable to the C.C.I.T.T.

3. The Director shall take all the necessary preparatory measures for meetings of the PA, Study Groups and Working Parties, the work of which he should co-ordinate in such

a way that the meetings will produce the best results in the shortest possible time. To this end, he may decide, with the agreement of the Chairmen of Study Groups or Working Parties, in the same way as the Plenary Assembly, to set up Working Parties attached to one Study Group or Joint Working Parties concerning several Study Groups for the purpose of studying a question or group of questions. He shall fix, by agreement with the Chairmen, the dates and programmes of Study Group and Working Party meetings; he shall arrange the calendar for these meetings according to the nature of the work and the availability of the C.C.I.T.T. Secretariat.

4. a) In his "Report on the Financial Needs of the Committee until the next PA", the Director shall communicate to the PA (for information) a summary of the accounts for the years which have elapsed since the preceding PA and the "Estimated Expenses of the C.C.I.T.T." to cover the financial requirements of the Committee until the next PA.

b) These "Estimated Expenses of the C.C.I.T.T." shall first be submitted to a preliminary examination by the "Budget Control Committee"; the Chairman of this Committee shall prepare a report on this subject for the PA. After approval, these "Estimated Expenses of the C.C.I.T.T." shall be sent by the Director of the C.C.I.T.T. to the Secretary-General of the Union, for submission to the Administrative Council.

c) After the PA, the Director shall supply the Secretary-General of the Union (for the information of the I.T.U. Administrative Council) with a list of Study Group meetings scheduled up to the time of the next Plenary Assembly, and with an estimate of the probable costs of those Study Group meetings.

d) The Director of the C.C.I.T.T. shall submit, for a preliminary examination by the "Budget Control Committee" and thereafter for approval by the PA, the account for expenditure incurred for the current PA.

5. Within the limitations of the Regulations of the Union, the Director may submit to the PA any report or proposal which he considers would help to improve the work of the C.C.I.T.T., so that the PA may decide what action to take.

6. After a meeting of the PA, the Director shall supply a list of the Study Groups and Working Parties set up by the Plenary Assembly to the administrations of Members of the Union, recognized private operating agencies and scientific or industrial organizations taking part in the Consultative Committee's activities, with an indication of the questions referred to them for study. He shall ask them to say what Study Groups and Working Parties they wish to take part in, and to supply the names of rapporteurs (delegates, representatives, and experts) appointed to represent them.

Furthermore, he shall supply a list of Study Groups and Working Parties, as drawn up by the Plenary Assembly to the international organizations, and ask them which Study Groups and Working Parties they wish to be represented in by observers.

7. Where circumstances demand it, the Director of the C.C.I.T.T. would be authorized to take exceptional measures to maintain the efficiency of the work of the C.C.I.T.T.

### III. *Study Groups and Working Parties*

1. a) Study Groups shall be classified as normal Study Groups, Joint C.C.I.T.T.-C.C.I.R. Study Groups, and Special Study Groups.

b) A Special Study Group shall submit any draft recommendations it draws up to the Study Groups interested before they are submitted to the PA.

c) A Joint Study Group, set up with the approval of the Plenary Assemblies of both C.C.I.s, shall submit draft recommendations to the first PA to meet after the draft recommendation has been drawn up; the draft recommendation in question would then be provisionally approved by this Plenary Assembly, pending approval by the Plenary Assembly of the other C.C.I.

One of the C.C.I.s shall be responsible for the management of a Joint Study Group. The C.C.I. concerned will appoint the Chairman, while the other C.C.I. will appoint the Vice-Chairman<sup>1</sup>.

2. a) The administrations, recognized private operating agencies and scientific or industrial organizations shall be represented in the Study Groups and Working Parties in whose work they wish to take part, by rapporteurs, appointed by name and chosen by them as experts qualified to collaborate in the search for technically and economically satisfactory solutions to the questions under study. However, exceptionally, registration with a Study Group, or Working Party, may be made without specifying the name of the rapporteurs concerned. International organizations shall give the names of their prospective observers.

b) To study questions of common interest to the C.C.I.T.T. and the C.C.I.R., administrations, recognized private operating agencies and scientific or industrial organizations may also appoint rapporteurs from the C.C.I.R. to a Study Group of the C.C.I.T.T.; such an appointment does not carry with it the obligation to share in the expenses of the C.C.I.T.T.

3. a) The administrations, the recognized private operating agencies, the scientific or industrial organizations registered with a Study Group or Working Party, Chairmen and rapporteurs shall send their contributions, comments, results of experiments and proposals relating to the studies being made, to the Director of the C.C.I.T.T.

b) These contributions shall contain comments, results of experiments or proposals designed to further the studies to which they relate.

c) Contributions should be presented in accordance with the following general directives:

i) Contributions should be concisely drafted, avoiding any unnecessary details, tables or statistics that make no direct contribution to the reply to a question. They should be clearly written with a view to being universally understood, that is, as codified as possible, using international terminology and avoiding the technical jargon peculiar to the author's country.

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<sup>1</sup> At its IVth Plenary Assembly, the C.C.I.T.T.—which is responsible for the management of the Plan Committees—provisionally appointed the Vice-Chairmen of these Committees. These designations are provisional until the next Plenary Assembly of the C.C.I.R. which will elect the definitive Vice-Chairmen.

When a contribution deals with several questions, the questions should be separated so that the text of each question begins on a fresh sheet of paper (not on the back of a page).

- ii) A reply to any one question should not as a general rule exceed 2500 words (five pages), include more than three pages of figures (making eight pages in all). The reply should be accompanied by a summary and should be followed by conclusions whenever possible, in the form of a draft recommendation.
- iii) Documents of purely theoretical interest which are not directly related to the questions under study should not be submitted in their entirety. Short abstracts only of such articles could be sent to the C.C.I.T.T. for translation and publication.
- iv) Articles which have been or will be published in the technical press should not be submitted to the C.C.I.T.T. Short abstracts only of such articles could, however, be sent to the C.C.I.T.T. for translation and publication.
- v) Passages of an unduly commercial nature included in a contribution may be deleted by the Director of the C.C.I.T.T. in agreement with the Chairman: the author of the contribution will be advised of any such deletions.

d) Contributions should be drafted in one of the working languages of the Union and sent in four copies to the C.C.I.T.T. Secretariat; one of these copies will be sent immediately to the Chairman by the C.C.I.T.T. Secretariat.

It is recommended that a translation of contributions in another working language be sent to the C.C.I.T.T. Secretariat.

Contributions should be submitted on very white paper, in clear black type. If the paper is not of A4 format, the text on each page should not exceed that format.

The top half of the first page should be left blank.

e) Documents which are to be studied by a Study Group or a Working Party meeting should reach the Director at least four months before the date fixed for the opening of the meeting concerned.

4. a) The Director shall group the documents received question by question, shall have the necessary translations made and shall send them to the members of Study Groups concerned, in the working language they desire, as far as possible two months before the date laid down for the opening of the Study Group or Working Party meeting having the question concerned on its agenda.

b) Before each meeting, a draft working plan listing the questions to be examined and the subject of each of them should be prepared by the Chairman, with the help of the Secretariat. This working plan should indicate the point reached in the study of each question and the documents relating to it.

The working plan should indicate which questions are to be studied, but it must be regarded as subject to change in the light of the rate at which work proceeds. Chairmen shall try to follow it as far as possible.

The working plan will be sent out at least one month before the beginning of each meeting.

c) Contributions received by the Director less than four months before the date fixed for the opening of a meeting cannot as a general rule be dealt with in accordance with the procedure outlined under 4 a) and 4 b).

d) If a Chairman, in agreement with the rapporteurs of his Study Group or his Working Party, states that his Study Group (or Working Party) is willing to use documents in the original working language, the Director shall send on the documents regrouped as specified in paragraph 4 a) above, without having them translated. This procedure cannot be changed during the period between two Plenary Assemblies.

5. If, from the contributions received, it appears that there is agreement among administrations on the lines of the reply to a question (or part of a question) the Chairman, with the assistance of the Secretariat, may submit a draft reply, possibly accompanied by a draft Recommendation.

If the contributions received reveal a variety of proposals or points of view, the Secretariat should, if possible, prepare a table summing up the different positions of administrations on the question and the point reached in the study. The table should be sent to members of the Study Group, if possible in advance of the meeting.

6. Study Groups and Working Parties shall meet in principle once in the period of time between the end of a PA and the meetings mentioned in paragraph 14 a) below. Exceptionally, extra meetings may be held, with the approval of the Director and the agreement of a majority of the administrations represented on the Study Group or Working Party concerned.

7. a) In accordance with Opinion No. 1, Study Groups and Working Parties may meet outside Geneva if invited to do so by administrations or recognized private operating agencies of countries Members or Associate Members of the Union. Such invitations must be submitted to the Plenary Assembly and accepted by it, and shall be taken up only if they are compatible with the credits allocated to the C.C.I.T.T. by the Administrative Council.

b) The only invitations which the Director is authorized to accept without such action by the Plenary Assembly are those extended to small Working Parties by countries close to Switzerland. They may be accepted only if the chairmen concerned are in agreement and if the budgetary resources of the C.C.I.T.T. permit.

c) Invitations mentioned in a) and b) above shall be issued and accepted, and meetings outside Geneva subsequently arranged only if conditions provided for in I.T.U. Administrative Council Decision No. 304, of April 1963, can be met.

d) Should an invitation be cancelled for any reason between Plenary Assemblies, a proposal shall be made to administrations that the meeting be convened in Geneva, in principle on the date originally planned.

8. a) The Chairman shall direct the debates during the meeting, with the assistance of the Secretariat.

b) Study Groups and Working Parties may set up *working teams* (which should be as small as possible) during their meetings, to study questions allocated to those particular Study Groups and Working Parties.

c) The drafts of recommendations and resolutions shall be prepared by the Chairman, whenever possible with the assistance of the specialized Secretariat or temporary working teams. These texts must be approved in their final form before the meeting disbands.

9. a) A report on the work done during a meeting shall be prepared by the Secretariat.

b) This report shall be submitted, if possible, for approval before the end of the meeting; otherwise it shall be submitted for approval by the Chairman of the meeting, unless the meeting declares itself satisfied by approval of the texts in accordance with 8 c) above.

10. Administrations and private operating agencies are authorized to communicate Study Group or Working Party reports and documents to any experts they consider it expedient to consult, except where the Study Group or the Working Party concerned has specifically decided that its report, or document, is to be treated as confidential.

A Study Group or a Working Party may decide that a meeting is limited to delegates of administrations and recognized private operating agencies.

11. A Study Group may entrust a question or group of questions to a Working Party for preliminary study. It may, by agreement with another Study Group (or, if necessary, with other Study Groups) entrust a Joint Working Party with the study of a question or group of questions which may be of common interest to the Study Groups concerned. One of these Study Groups, known as the Controlling Study Group, shall have the final responsibility for the study. The contributions used as a basis for discussions by the Joint Working Party will be sent solely to the rapporteurs registered in the Joint Working Party; final reports only of these Joint Working Parties shall be sent to all the members of the Study Groups concerned.

12. A Study Group or Working Party may instruct one or more rapporteurs, appointed in person by the Study Group or Working Party, to draft a reply to a question for submission to the Study Group or Working Party.

The members of this last-mentioned group of rapporteurs, under the authority of a leader, shall choose whatever method of work they consider most appropriate: correspondence, or private meetings of the group.

The group of rapporteurs would then submit a report to the Study Group or Working Party for examination at the next meeting.

13. a) The Director shall send reports on the work of each Study Group, as a preliminary report to the PA, to all administrations and recognized private operating agencies which are Members of the C.C.I.T.T.

b) If, as an exception to the rule in paragraph 14 a) below, a Study Group does not meet in the same place as the PA, before the PA meets, the Director shall send the final report on the work of that Study Group.



c) These reports shall be submitted as soon as possible and in any case not less than two months before the opening of the PA in the working languages used by the PA.

14. a) All Study Groups shall meet at the meeting place of the Plenary Assembly, before its opening meeting, in order to prepare final versions of the draft recommendations to be submitted to the PA for approval.

b) The programme for the whole of the Study Group meetings (during the days preceding the Plenary Assembly) shall be sent in good time to the administrations and to recognized private operating agencies which are Members of the C.C.I.T.T., in order to enable them to attend these meetings. The programme shall also be sent to the scientific and industrial organizations authorized to attend the meetings of Study Groups and Working Parties.

c) The final report by each Study Group, prepared in accordance with paragraphs 9 and 13 b) above, shall be forwarded to the PA.

15. While the PA is in session, Study Group Chairmen shall hold themselves at the disposal of the PA, to supply information on matters which concern their Study Groups.

## RESOLUTION No. 2

### Provisional Recommendations

*(Mar del Plata, 1968)*

The International Telegraph and Telephone Consultative Committee

*decides that:*

1. If the necessary authority is granted by the Plenary Assembly, a Study Group meeting may decide that the procedure for provisional approval be applied to a draft Recommendation.

2. In cases of urgency a Study Group meeting may decide that the procedure for provisional approval be applied to a draft Recommendation. Such a decision shall be taken by unanimous agreement between the administrations and recognized private operating agencies represented at the meeting of the Study Group, both in respect of the Recommendation and the need for urgent approval.

3. The C.C.I.T.T. Secretariat shall then request the administrations of countries Members of the I.T.U. to inform it within three months whether they approve the provisional adoption of the draft Recommendation concerned. The Recommendation shall be provisionally adopted if, within this time limit, a simple majority of favourable replies is received provided that more than half of the members of the Study Group concerned have replied.

4. Definitive adoption will be a matter for the following Plenary Assembly.

**RESOLUTION No. 3****Technical assistance**

(Geneva, 1964; Mar del Plata, 1968)

The International Telegraph and Telephone Consultative Committee

*in view of*

Numbers 188 and 189 of the International Telecommunication Convention (Montreux, 1965) and Resolutions Nos. 28 and 29 of the Plenipotentiary Conference (Montreux, 1965),

*taking note of*

the substantial progress made in technical assistance to the new and developing countries as outlined in the report of the Director to the IVth Plenary Assembly, Mar del Plata (document AP IV/4), and realizing that steps are being taken or to be taken by the C.C.I.T.T. to encourage active participation by the new and developing countries, in order to gain maximum benefit,

*recommends that*

1. the new and developing countries themselves should take steps to participate more actively by sending suitable delegations and by designating suitable personnel in the administration for continuing participation in the C.C.I.T.T. Study Groups, Working Parties and Plan Committees;

*decides that*

2. after each meeting, the C.C.I.T.T. Study Groups should succinctly describe what has been achieved and say what they are hoping to accomplish. The short text thus evolved should appear in the Telecommunication Journal;

3. a) the work of preparation of documentary manuals by the Special Autonomous Working Parties are to be continued until they are completed;

b) in view of the need to keep up to date some of the manuals already published by the Special Autonomous Working Parties, to keep pace with rapid changes in technique, and of the fact that some manuals dealing with very broad and complex questions do not as yet contain sufficient information to justify regarding the work of the Special Autonomous Working Parties as completed, it was desirable:

— in the former case to take the necessary steps to ensure that the manuals were brought up to date;

— in the latter case to prolong the mandate of the Special Autonomous Working Parties concerned as the most appropriate bodies for continuing the work undertaken;

c) the publication of manuals on "general principles of national tariffs" and "earthing" should be speedily undertaken and appropriate Working Parties set up for the purpose;

4. the handling of certain simple questions should be speeded up. This should be done by asking the Chairman of the relevant Study Group or Working Party to provide immediate provisional answers, pending more thorough investigation. The C.C.I.T.T. may in such cases also draw upon the services of the group of specialist engineers in the Technical Co-operation Department of the I.T.U.;

5. the Study Groups are asked to lend assistance in drawing up specifications in a manner which would render it easier to launch an appeal for tenders. Otherwise they should be asked to put the requesting countries in touch with administrations which would be willing to let them have their own specifications. The C.C.I.T.T. should compile information from the countries requesting and the complying administrations on the results of such requests;

6. certain technical papers submitted to the Plan Committees and to I.T.U. seminars should be widely disseminated. The C.C.I.T.T. may also organize seminars periodically which might give a general view of the C.C.I.T.T. organization and examine in detail selected subjects of special interest to the new and developing countries dealt with by one or more Study Groups.

#### **RESOLUTION No. 4**

##### **Publication of C.C.I.T.T. Books**

*(Geneva, 1958, New Delhi, 1960, Geneva, 1964, Mar del Plata, 1968)*

The International Telegraph and Telephone Consultative Committee

*decides that:*

1. The C.C.I.T.T. Books shall be published in separate volumes according to the following plan:

- Volume I: Minutes and reports of the Plenary Assembly.  
Opinions and Resolutions.  
Recommendations and Questions on:
  - the organization and working procedures of the C.C.I.T.T.
  - means of expression.List of Study Groups and Questions under study.
- Volume II A: Telephone operation and tariffs.
- Volume II B: Telegraph operation and tariffs.
- Volume III: Line transmission.
- Volume IV: Line maintenance and measurements.
- Volume V: Telephone performance rating and telephone equipment.

Volume VI: Telephone signalling and switching.

Volume VII: Telegraph technique.

Volume VIII: Data transmission.

Volume IX: Protection.

2. Each volume (except for Volume I) will contain, for the particular subject it covers:

- the questions under study;
- the Recommendations;
- the text of the supplements (contributions, or extracts from them, which the Study Groups, in agreement with the Director of the C.C.I.T.T., considered worth publishing owing to their interest);
- an index of technical terms used in the Recommendations.

3. Except for Volume I, the Books should be published in the form of files which permit the use of separate volume or loose-leaf form; the official part of the Books (Questions and Recommendations) should be published as speedily as possible.

4. Other publications not contained in the Books, such as:

- the general plans for the development of the international network;
- the Directives for protection against the effects of power lines;
- Recommendations against corrosion;
- List of definitions (Part I);
- Instructions for the international telephone service;
- and a variety of pamphlets, the publication of which is requested by a Plenary Assembly;

will be published and re-edited, when necessary, independently of the volumes of the Book.

5. These publications as indicated in § 4 should, in principle, be published in loose-leaf form, with the exception of the books of the general plans for the development of the international network.

## RESOLUTION No. 5

### Numbering and lay-out of C.C.I.T.T. Recommendations

*(Geneva, 1958, New Delhi, 1960, and Geneva, 1964)*

The Telegraph and Telephone Consultative Committee

*decides:*

1. That all C.C.I.T.T. Recommendations shall be numbered; the number of each Recommendation shall have a letter prefix referring to the series, as well as a reference number.

2. The series of Recommendations shall be as follows:

Reference letter of the series	Scope of the series	Volume in which the Recommendation will be published
A	Organization of the work of the C.C.I.T.T. . . . .	I
B	Means of expression (definitions, vocabulary, symbols, classification) . . . . .	I
D	Lease of international telecommunication circuits . . . . .	II
E	Telephone operation and tariffs . . . . .	II
F	Telegraph operation and tariffs . . . . .	II
G	Transmission: lines, radio-relay systems, radiotelephone circuits . . . . .	III
H	Utilization of lines for telegraphy and phototelegraphy . . . . .	III
J	Radio and television programme transmissions . . . . .	III
K	Protection against interference . . . . .	IX
L	Protection against corrosion . . . . .	IX
M	Maintenance of telephone circuits and carrier systems . . . . .	IV
N	Maintenance for programme and television transmissions . . . . .	IV
P	Telephone transmission quality. Telephone installations and local line networks . . . . .	V
Q	Telephone switching and signalling . . . . .	VI
R	Telegraph channels . . . . .	VII
S	Alphabetical telegraph apparatus . . . . .	VII
T	Facsimile telegraph apparatus . . . . .	VII
U	Telegraph switching . . . . .	VII
V	Data transmission . . . . .	VIII

3. Recommendations in one series shall be classified in sections according to subject.

4. The operative part of a Recommendation shall be preceded by a statement of the reasons that have led to the issue of the Recommendation. This will be worded, so far as possible, in an informative way, omitting the formula "considering".

**RESOLUTION No. 6****Use of simultaneous interpretation***(Geneva, 1958 and 1964)*

The International Telegraph and Telephone Consultative Committee,

*considering*

that simultaneous interpretation enables debates to be shortened,  
that its use in Plenary Assemblies and meetings of Study Groups dealing with operating has been very effective,

that its use is questionable for meetings of technical Study Groups, in which the translation has to be constantly watched by specialists in the problems under study,

that the expense involved in simultaneous interpretation is greater than that for consecutive interpretation,

*decides*

that simultaneous interpretation will be used for Plenary Assemblies;

that simultaneous interpretation will be used, in principle, for Study Group or Working Party meetings which deal with operation and tariff questions;

that in other cases, the Director of the C.C.I.T.T. shall decide what sort of interpretation will be used, taking into account the opinion of the Chairmen and the considerations proper to each meeting.

**RESOLUTION No. 7****Team of experts for organization and methods of work of the C.C.I.T.T.***(Mar del Plata, 1968)*

The International Telegraph and Telephone Consultative Committee,

*considering*

a) the rapid rate of emergence of new techniques which are thought likely to affect profoundly the development of public telecommunications services in all Member countries;

b) the increasing load of work combined with change in technical emphasis as measured by the number of meetings, participation in meetings, the number of Recommendations under review, the number of books and manuals being published and the numbers of new Study Groups, Joint Study Groups and Special Autonomous Working Parties being requested;

c) that at the IVth and previous Plenary Assemblies some problems have already been clearly identified: for example, difficulty in the Secretariat in maintaining adequate time schedules, publication in a reasonable time of reports, books and manuals, difficulty of Member countries in sending qualified representatives to the increasing number of meetings;

d) that at every Plenary Assembly the question of the reorganization of the C.C.I.T.T. arises but the time available is insufficient for adequate discussion;

e) that to meet the needs that are becoming more and more evident, high efficiency in the working methods linking C.C.I.T.T. participants with the Secretariat is essential;

*decides*

to set up as soon as possible a study team of ten experts (two from each region) possessing knowledge and experience of C.C.I.T.T. activities and of contemporary methods of organization at senior management level in telecommunication administrations, with the following terms of reference:

1. to undertake a fresh review and a basic assessment of the requirements of the overall consultative process inherent to the C.C.I.T.T. activity, as provided for in Article 14 of the Convention;

2. to prepare a draft proposal on the organization and working methods of the C.C.I.T.T., and a draft proposal identifying the appropriate Study Groups and their terms of reference, and the principles upon which the above should adapt to changing conditions, taking into consideration:

- discussions which took place at the IIIrd and IVth Plenary Assemblies of the C.C.I.T.T.;
- views which have already been submitted, or may further be submitted, by administrations;
- the experience of the C.C.I.T.T. Secretariat and the other permanent organs of the I.T.U.;
- the financial implications of their proposals;

3. to prepare this draft in sufficient time to enable it to be distributed to Members of the C.C.I.T.T. at least six months before the opening of the Vth Plenary Assembly;

*instructs the Director of the C.C.I.T.T.*

1. to invite the member administrations of the C.C.I.T.T. to submit nominations, with associated curriculum vitae, for the study team in time for distribution to the Members of the Administrative Council at least one month before its 24th Session;

2. to make the necessary administrative arrangements to enable the study team to carry out its work, within the resources allocated from the Administrative Council for the general work of the C.C.I.T.T. and such special budgetary support as may be authorized for this project;

3. to transmit the draft prepared by the study team to the Administrative Council for information and to the Members of the C.C.I.T.T. for their study and later consideration at the Vth Plenary Assembly of the C.C.I.T.T.;

4. to make available to the members of the study team full access to C.C.I.T.T. records and to the staff of the Secretariat for consultation;

*requests the Administrative Council at its 24th meeting*

1. to select the members of the study team in accordance with the provisions of the "decides" above (since the IVth Plenary Assembly could not do it and it would be undesirable to delay until the Vth Plenary Assembly);

2. to consider the authorization of the travel and subsistence expenses of the experts from the budget of the Union in case one or more meetings are required before the Vth Plenary Assembly of the C.C.I.T.T.;

*urges Members of the C.C.I.T.T.*

1. to submit to the study team through the Director additional comments, suggestions and proposals in regard to the organization of the C.C.I.T.T. and its working methods no later than 1 October 1969;

2. to make freely available to the members of the study team such information and advice from their own experts and C.C.I.T.T. participants as may be requested by the members of the study team.

## RESOLUTION No. 8

### **Co-operation with the I.E.C. in the standardization of cables, wires and waveguides**

*(New Delhi, 1960, Geneva, 1964, Mar del Plata, 1968)*

The International Telegraph and Telephone Consultative Committee,

*considering*

that the International Electrotechnical Commission has set up a new Technical Committee (T.C.46) to prepare international recommendations on cables, wires and waveguides and accessories for use in telecommunication equipment and systems using similar techniques;

that the cables intended for use in public telephone networks are not included in the terms of reference of this Committee;

that other points of the terms of reference of this Committee have not been narrowly defined and that its work in this respect should be co-ordinated with that of the C.C.I.T.T.;



that telephone and telegraph administrations reserve the right to establish some of the specifications for wires and cables intended for internal cabling of certain telecommunication equipment whenever they consider it advisable;

*instructs the Director* of the C.C.I.T.T. to take any useful measures to ensure efficient liaison between the C.C.I.T.T. and I.E.C. Technical Committee 46, in accordance with the principles given below;

*recommends to Member Administrations* of the C.C.I.T.T. whose countries participate in the work of the I.E.C. to take an active part—each within the national Committee of the I.E.C.—in work connected with the activities of Technical Committee 46, so that the views of telegraph and telephone administrations may be duly taken into account.

ANNEX  
(to Resolution No. 8)

*Principles of co-operation between the C.C.I.T.T. and I.E.C. Technical Committee 46*

1. The aim of the standardization envisaged by the I.E.C. is to cut down the number of types of cables to be made, so that the price may be lowered and so that the cables made by different manufacturers will be interchangeable. This policy is analogous to that followed by the C.C.I.T.T. as regards those types of cable for which it alone is competent. The I.E.C. can study the standardization of internal cabling for use for various purposes in electronics, including telecommunications (the same principle has already been applied with regard to other items of telecommunication equipment). Nevertheless, if cables or wires standardized by the I.E.C. can be used in telegraph or telephone installations, they must not interfere with the application of C.C.I.T.T. recommendations concerning those installations. It is especially important that the electrical characteristics of the cables are compatible with C.C.I.T.T. recommendations on transmission, drawn up by Study Groups XV and XVI; certain points of design may concern Study Groups V and VI.

2. It therefore seems very desirable for the draft recommendations studied by T.C. 46 to be forwarded to the C.C.I.T.T. for examination. To simplify co-operation, the result of this examination should preferably be expressed in one of the following forms:

- a) The C.C.I.T.T. has no comment to make on this draft, or
- b) Recommendation . . . should be brought into line with C.C.I.T.T. recommendation . . . , or
- c) The C.C.I.T.T. is at present studying the point dealt with in recommendation . . . , which it considers as being within its terms of reference.

As a general rule, this examination should be carried out by the appropriate C.C.I.T.T. Study Group, but, since I.E.C. procedure involves time-limits that may not be exceeded (and which are sometimes rather short), the Plenary Assembly leaves it to the Director to take any appropriate practical measures.

3. The Director of the C.C.I.T.T. will continue to supply the I.E.C. with any useful documentation regarding C.C.I.T.T. work.

**RESOLUTION No. 9****Work of the I.T.U. in the field of space communication***(Mar del Plata, 1968)*

The International Telegraph and Telephone Consultative Committee

*aware*

of the important and urgent problems raised by the integration of space communications within existing systems, which will continue to develop,

*considering*

that the I.T.U. and its organs are the sole bodies within the United Nations system qualified to issue recommendations relating to such integration;

that the Administrative Council of the I.T.U. has adopted Resolutions Nos. 636 and 637 concerning the role and the activities of the I.T.U. in the field of space communications;

that the C.C.I.T.T. Plenary Assembly has resolved to set up a group of experts to study the problems of organization within the C.C.I.T.T.,

*decides*

to request the Director of the C.C.I.T.T., in co-operation with the Director of the C.C.I.R., to advise the Secretary-General in his task of determining the basic direction of future work of the permanent organs of the I.T.U. in the field of space communication to ensure wider co-operation with all the administrations and recognized private operating agencies concerned with space-communications.

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## OPINIONS

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### OPINION No. 1

#### Location of C.C.I.T.T. meetings

The Special Assembly of the C.C.I.T.T. (Geneva, 1958)

*expresses the opinion*

that the holding of meetings of the C.C.I.T.T. outside Geneva is desirable in certain circumstances, in so far as these meetings remain within the possibilities of the C.C.I.T.T. budget.

The IIIrd Plenary Assembly of the C.C.I.T.T. (Geneva, 1964)

*expresses the opinion*

that the invitations of the meetings would be submitted to the Plenary Assembly of the C.C.I.T.T. and previously be accepted by it, subject to the credits allocated to the C.C.I.T.T. which allow of honouring them;

that the inviting administrations conform to Decision No. 304 of the 1963 session of the Administrative Council of the I.T.U.

*Remark. — Text of Council Decision No. 304:*

"The Council decided that, in view of the provisions of the Convention that all Members and Associate Members shall be entitled to participate in conferences and meetings of the Union, the Secretary-General, when drawing up an agreement with an inviting government on the arrangements to be made concerning a conference or meeting of the Union, shall include therein a clause to the effect that the inviting administration shall apply without reservation the provisions of the Convention and shall permit the persons attending on behalf of Members and Associate Members of the Union and other bodies invited, and officials of the Union, as well as their families, to enter the country concerned and to sojourn therein throughout the duration of their function or mission in connection with the conference or meeting."

**OPINION No. 2****Exchange of views on new techniques at C.C.I.T.T. meetings**

The Special Assembly of the C.C.I.T.T. (Geneva, 1958)

*expresses the opinion*

that the Director of the C.C.I.T.T., in agreement with the Chairman of the Study Group or Sub-Group concerned and with the consent of the inviting administration, if there is one, should organize an exchange of views and opinions on new techniques in the telegraph and telephone field on the occasion of C.C.I.T.T. meetings;

that, in principle, the time spent on this exchange of views should not prolong the meeting by more than one day.

**OPINION No. 3****Preliminary examination of new draft questions**

The IInd Plenary Assembly of the C.C.I.T.T. (New Delhi, 1960),

*considering*

that, when new draft questions are handed in just before the meetings of a Plenary Assembly, the Study Groups concerned are not always able to make a thorough study of their real object and to submit them in a clear and precise form;

that the study of these questions is often rendered difficult thereby;

*expresses the opinion*

that the administrations or recognized private operating agencies which want the Plenary Assembly to set a new question for study should hand in the text of such question to the C.C.I.T.T. Secretariat at least two months before the opening date of the Plenary Assembly;

that proposed questions should be accompanied by reasons justifying the interest of the questions, with an indication of their degree of urgency;

that administrations should for this purpose use a form for handing in new questions based on the form annexed hereto;

that the forms received by the C.C.I.T.T. Secretariat should be circulated to the members of the Study Group (or groups) concerned so as to be received at least one month before the opening of the Plenary Assembly;

that the same procedure should be used for the studies proposed by the Director of the C.C.I.T.T.

ANNEX  
(to Opinion No. 3)

**C.C.I.T.T.**

*Study Group No.*

*FORM FOR HANDING IN A NEW QUESTION*

Administration<sup>1</sup> of origin :  
 Date of handing in :  
 Text of question :  
 Type of question<sup>2</sup> :  
 Reasons or experience motivating  
 the proposed new question :  
 Date by which the recommendation  
 should be issued, and order of urgency<sup>3</sup> :

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<sup>1</sup> or C.C.I.T.T.

<sup>2</sup> Background question, question designed to lead to a Recommendation, etc.

<sup>3</sup> The urgency will be either: short-term, leading to the issue of a Recommendation by the next Plenary Assembly, or long-term.

**OPINION No. 4**

**List of persons dealing with questions on international telephony and telegraphy**

The IIInd Plenary Assembly (New Delhi, 1960)

*considering*

that the "List of persons dealing with questions on international telephony and telegraphy", published by the C.C.I.T.T. Director, is a document of great value,

*expresses the opinion*

that the C.C.I.T.T. Director should periodically publish such a list; and

that administrations and recognized private operating agencies should provide the C.C.I.T.T. Director with all requisite information in this respect.

**OPINION No. 5****Examination at regional Plan meetings of certain questions outside the Plan Committee's terms of reference**

The IIIrd Plenary Assembly (Geneva, 1964),

*considering*

that, at meetings of the Regional Plan Committees, participating countries have often submitted Resolutions or Opinions or have requested studies on questions which do not come within the competence of the Plan Committees, as defined in Administrative Resolution No. 448, or of the C.C.I.T.T. or C.C.I.R. as laid down in the Convention (Montreux, 1965, Article 14 § 5);

that these resolutions, opinions and studies generally fall within the field of the I.F.R.B. or of the Department of Technical Co-operation in the General Secretariat;

that it is quite understandable that countries which cannot send delegates to all meetings held outside their continents should take the opportunity, when the Plan Committee meets in their continents, of submitting all technical assistance requests within the province of the I.T.U. without considering whether or not they are the responsibility of a Plan Committee;

that it is important to do everything possible to satisfy these countries' desires within the limits of the statutory duties of the Consultative Committees;

*requests* the Administrative Council to recommend

that, when Plan meetings are held, separate meetings may be arranged, either before or after but outside the Plan meetings, in the same place and under the aegis of the competent organs of the Union for the purpose of examining technical assistance questions pertaining to the I.F.R.B. or the Technical Co-operation Department of the General Secretariat;

that the expenses incurred for the common services provided at such series of meetings should be borne by the I.T.U. and Technical Assistance budget sections in a manner to be agreed by the heads of the organs concerned.

## **PART III**

### **LIST OF STUDY GROUPS, PLAN COMMITTEES AND WORKING PARTIES**

### **LIST OF QUESTIONS AND ASSIGNMENT OF THESE QUESTIONS**

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# LIST OF STUDY GROUPS AND PLAN COMMITTEES

Abbreviated designation	Title		Chairman	Vice-Chairman
COM I	Study Group I	Telegraph operation and tariffs (including telex)	Mr. A. Gomes (United States)	Mr. S. Paramor (United Kingdom)
COM II	Study Group II	Telephone operation and tariffs	Mr. R. Rütschi (Switzerland)	Mr. N. Biezen (Netherlands)
COM III	Study Group III	General tariff principles; lease of telecommunication circuits	Mr. L. Bürtz (France)	Mr. D. Robertson (Canada)
COM IV	Study Group IV	Transmission maintenance of international lines, circuits, and chains of circuits	Mr. J. Valloton (Switzerland)	Mr. J. Kiil (Denmark)
COM V	Study Group V	Protection against dangers and disturbances of electromagnetic origin	Mr. H. Riedel (F. R. of Germany)	Mr. G. Gratta (Italy)
COM VI	Study Group VI	Protection and specifications of cable sheaths and posts	Mr. Walters (United Kingdom)	Mr. A. Blanchi (France)
COM VII	Study Group VII	Definitions and symbols	Mr. Ducommun (Switzerland)	
COM VIII	Study Group VIII	Telegraph equipment and local connecting lines	Mr. G. Baggenstos (Switzerland)	Mr. I. Savitzky (Ukraine)
COM IX	Study Group IX	Telegraph transmission quality; specification of equipment and rules for the maintenance of telegraph channels	Mr. R. Brown (Australia)	Mr. B. Kubin (Czechoslovakia)
COM X	Study Group X	Telegraph switching	Mr. A. Jansen (Netherlands)	Mr. D. Faugeras (France)
COM XI	Study Group XI	Telephone switching and signalling	Mr. A. Jouty (France)	Mr. Tchouta Moussa (Cameroon)
COM XII	Study Group XII	Telephone transmission performance and local telephone networks	Mr. F. Kroutl (Czechoslovakia)	Mr. M. F. T. Andrews (United States)
COM XIII	Study Group XIII	Automatic and semi-automatic telephone networks	Mr. A. Newstead (Australia)	Mr. S. Kuhn (Poland)
COM XIV	Study Group XIV	Facsimile telegraph transmission and equipment	Mr. H. Bitter (F. R. of Germany)	Mr. Vinogradov (Poland)
COM XV	Study Group XV	Transmission systems	Mr. F. Job (France)	Mr. D. Gagliardi (Italy)

## LIST OF STUDY GROUPS AND PLAN COMMITTEES (continued)

Abbreviated designation	Title		Chairman	Vice-Chairman
COM XVI	Study Group XVI	Telephone circuits	Mr. J. Billen (United Kingdom)	Mr. Serrure (Belgium)
COM Sp.A	Study Group Special A	Data transmission	Mr. J. Rhodes (United Kingdom)	Mr. V. N. Vaughan (United States)
COM Sp.C	Study Group Special C	Noise (Joint C.C.I.R./C.C.I.T.T. Study Group administered by the C.C.I.T.T.)	Mr. R. Kaiser (F. R. of Germany)	Mr. Matsumoto (Japan)*
COM Sp.D	Study Group Special D	Pulse code modulation	Mr. R. Boyd (United States)	Mr. G. Baudrin (Belgium)
C.M.T.T.	Joint Study Group on television transmission	Television transmission (Joint C.C.I.R./C.C.I.T.T. Study Group administered by the C.C.I.R.)	Mr. Angel (France)	Mr. W. Simpson (United Kingdom)
WORLD PLAN	World Plan Committee	World-wide telecommunication plan (Joint C.C.I.T.T./C.C.I.R. Study Group, administered by the C.C.I.T.T.)	Mr. Bigi (Italy)	Mr. O. H. Mohamed (Pakistan)*
PLAN AFRICA	Africa Plan Committee	Telecommunication plan for Africa (Joint C.C.I.T.T./C.C.I.R. Study Group, administered by the C.C.I.T.T.)	Mr. L. Dia (Senegal)	Mr. I. Girmaw (Ethiopia)*
PLAN ASIA	Plan Committee for Asia and Oceania	Telecommunication Plan for Asia and Oceania (Joint C.C.I.T.T./C.C.I.R. Study Group, administered by the C.C.I.T.T.)	Mr. A. Zaidan (Saudi Arabia)	Mr. S. Fujiki (Japan)*
PLAN LATIN AMERICA	Latin America Plan Committee	Telecommunication plan for Latin America (Joint C.C.I.T.T./C.C.I.R. Study Group, administered by the C.C.I.T.T.)	Mr. A. C. Núñez (Mexico)	Mr. R. Severini (Argentina)*
PLAN EUROPE	Plan Committee for Europe and the Mediterranean Basin	Telecommunication plan for Europe and the Mediterranean Basin (Joint C.C.I.T.T./C.C.I.R. Study Group, administered by the C.C.I.T.T.)	Mr. T. Noat (France)	Mr. H. Dietrich (Poland)

\* Provisional appointment pending the next C.C.I.R. Plenary Assembly

## JOINT WORKING PARTIES

Abbreviated designation	Title	Study Groups concerned	Chairman	Vice-Chairman
GM TAF	Tariffs (Africa)	I, II, III	Not yet appointed	Not yet appointed
GM TAL	Tariffs (Latin America)	I, II, III	Not yet appointed	Not yet appointed
GM TAS	Tariffs (Asia)	I, II, III	Not yet appointed	Not yet appointed
GM TEUR	Tariffs (Europe)	I, II, III	Not yet appointed	Not yet appointed
GM ALP	Use of alphabet No. 5	I, VIII, X, Sp.A	Not yet appointed	Not yet appointed
GM TGX	World-wide telex and gentex routing plan	I, IX, X	Not yet appointed	Not yet appointed
GM LTG	Use of telephone-type lines for purposes other than telephony	IX, XIV, XV, Sp.A, Sp.C	Not yet appointed	Not yet appointed
GM MAT	Automatic telegraph maintenance	VIII, IX, X	Not yet appointed	Not yet appointed
GM FT6	Field trials of system No. 6	XI, XIII	Not yet appointed	Not yet appointed
GM PFP	Protection of power-feeding systems	V, XV	Not yet appointed	Not yet appointed
GM PAR	Protective devices	V, VI (+ CIGRE)	Not yet appointed	Not yet appointed
GM CDF	Protection against lightning	V, VI	Not yet appointed	Not yet appointed
GM TER	Earthing systems	IV, V, VI, XI, XV	Not yet appointed	Not yet appointed
GM NRD	New networks for data transmission	I, IX, X, Sp.A	Mr. Ohlmer (F. R. of Germany)	Mr. MacDonald (Canada)

## AUTONOMOUS SPECIALIZED WORKING PARTIES FOR BACKGROUND STUDIES OF INTEREST TO THE DEVELOPING COUNTRIES

Abbreviated designation	Title	Chairman	Vice-Chairman
GAS 3	Economic and technical comparison of transmission systems	Mr. Aoud (Morocco)	Mr. G. Wallenstein (United States)
GAS 4	Primary power sources	Mr. F. Bentley (Canada)	Mr. M. Linden (Sweden)
GAS 5	Economic conditions and telecommunication development	Mr. H. Longequeue (France)	Mr. E. Galli (Argentine Republic)

# LIST OF QUESTIONS TO BE EXAMINED DURING THE PERIOD 1968-1972 AND THEIR ASSIGNMENT TO STUDY GROUPS AND JOINT WORKING PARTIES

An \* indicates that a question is urgent, i.e. that the study of the question has to be completed before the Vth Plenary Assembly.

## *Preliminary remarks*

1. The Plenary Assembly having set up Special Study Group D, all questions relating to pulse code modulation (p.c.m.) have been assigned to this Study Group for the time being (except for a study which Study Group XII has been asked to carry out within the specific context of its work).

The Chairman of Special Study Group D will contact the other Chairmen to make arrangements for liaison with the other Study Groups concerned as work progresses.

2. Notes to the effect that a particular question is of interest to various Study Groups when no Joint Study Group has been set up to study it are intended primarily for the information of the members of the Study Group dealing with the question, to enable them to arrange for the necessary co-ordination within their national administrations, in accordance with the decision taken by the Plenary Assembly (paragraph A.9 b) of the report of Committee A).

## STUDY GROUP I

No. of the Question	Summary	Remarks
1/I*	Counting of words	
2/I*	New principles for telegraph tariffs	
4/I	Telegraph services for "transferred accounts"	S.G. II to be kept informed
6/I	Use of telegraph alphabet No. 5	See also Questions 9/VIII and 1/A. Point C to be studied by ALP Joint Working Party
8/I	World-wide routing plan for telex and gentex services	Also Question 8/X
9/I	Revision of Rules for the gentex service	To be studied by TGX Joint Working Party
10/I	Retransmission of messages	

No. of the Question	Summary	Remarks
11/I	Observations of the grade of service in telex traffic	S.G. II to be kept informed
14/I	Revision of the Telex Regulations	
17/I	Simultaneous phototelegraph transmission to multiple destinations	
18/I	Service codes	
23/I*	Revision of Telegraph Regulations	
24/I	Tabulation of public message traffic	Of concern to S.G. VIII
25/I*	Deletion of the provisions concerning money order telegrams and postal cheque telegrams	
26/I	Data transmission statistics	
27/I	Phototelegram rates in the extra-European system	S.G. II to be kept informed
28/I	Telegraph tariffs in the extra-European system	
29/I	Intercontinental phototelegraph calls	
30/I	Joint use of the public message and telex services	

## STUDY GROUP II

No. of the Question	Summary	Remarks
1/II	Review of the new accounting procedures for international automatic and semi-automatic telephone traffic	
2/II	Definition of the traffic unit to be used in accounting between administrations	
3/II	International accounting for collect calls or credit-card calls	
4/II	Revision of the Recommendations in Series E relating to international telephone accounts	
5/II	Revision of the Recommendations on international programme and television transmissions	
6/II	International calls between three or more stations located in two or more countries (conference or multiple calls)	The S.G. concerned are to be informed of the results of this study
7/II	Requests for information on foreign subscribers' numbers	
8/II	Standardization of call tickets	
9/II	Arrangements for the payment for public service telephone calls by persons travelling abroad	S.G. I to be kept informed
10/II	Revision of the <i>Instructions for the international telephone service</i>	
11/II	Preparation of Instructions for users of the international automatic service	In conjunction with S.G. XIII
12/II	Telephone Regulations	

No. of the Question	Summary	Remarks
13/II	Determination of the number of circuits as a function of the traffic in manual operation. Revision of Recommendation E. 91 and preparation of new Recommendation on this point, if required	
14/II	Programme of study of human factors in subscriber international dialling	Of concern to S.G. XII and XIII
15/II	Subscriber confusion in understanding audible tones encountered in fully automatic working in the international service	Of concern to S.G. XIII
16/II	Subscriber dialling performance in fully automatic working in the international network	Of concern to S.G. XIII
17/II	Standardization of the use and printing of symbols in national and international telephone numbers	

## STUDY GROUP III

No. of the Question	Summary	Remarks
1/III	Leasing of intercontinental telecommunication circuits	
2/III	Leasing of a wide-band transmission facility	
3/III	Leased sound programme circuits	The categories of sound programme circuits to be considered will be defined by S.G. XV
4/III	Tariff conditions for replacing faulty leased circuits	
5/III	Distribution of rates charged for leased international circuits	
6/III	Amendments and additions to Recommendation D.1	
7/III	Amendments and additions to Recommendation D.2	
8/III	Activity of data service centres	
9/III	Direct distance exchange service	S.G. I and II to be informed on completion of study
10/III	Reduced rates during light traffic periods	S.G. I and II to be informed on completion of study
11/III	Study of costs and fixing of basic tariff components (per minute and per 100 km of line) for the telephone and the telex services (to be conducted on a regional basis)	Study to be conducted by Joint Regional Working Parties: TAF for Africa TAL for Latin America TAS for Asia TEUR for Europe

## STUDY GROUP IV

No. of the Question	Summary	Remarks
1/IV	Stability of the network	
2/IV	Short breaks in transmission	Of concern to S.G. IX and Sp.A
3/IV	Phase variations	In conjunction with SG IX (Question 28/IX)
4/IV	Terminology for carrier systems	Identical with 27/XV
5/IV	Maintenance of groups, supergroups, etc. not routed over a communication satellite system	
6/IV	Maintenance of groups, supergroups, etc. routed over a communication satellite system	
7/IV	Maintenance of radio-relay links	Joint study with the C.C.I.R.
8/IV	Limits of impulsive noise for data transmission	Concerns Sp.A
9/IV	Automatic re-establishment of the service by wideband switching	
10/IV	Specifications for measuring equipment	
11/IV	Automatic transmission measuring equipment for the maintenance of automatic circuits	
12/IV	Automatic noise measurement	
13/IV	Maintenance equipment for sound-programme circuits	
14/IV	Methods for meeting noise and crosstalk objectives on carrier programme circuits (former Question 9/XV)	
15/IV	Application of quality control to maintenance methods	
16/IV	Maintenance conditions for new systems specified by the C.C.I.T.T.	
17/IV	Effect on maintenance of the introduction of new components and modern types of equipment	
18/IV	Maintenance of telephone-type circuits	
19/IV	Maintenance of sound-programme circuits	Replaces Questions 19/IV, 20/IV and 21/IV studied during the period 1961–1968
20/IV	Maintenance of television circuits	
21/IV	Measurements on connections <sup>1</sup>	Conclusions to be transmitted to S.G. XVI
22/IV	Measuring the reliability of leased international circuits	
23/IV	Influence of human factors on reliability	

<sup>1</sup> Measurements to be carried out once during the period 1968–1972

## STUDY GROUP V

No. of the Question	Summary	Remarks
1/V	Protective devices	To be studied by PAR Joint Working Party of S.G. V and VI and C.I.G.R.E.
2/V	Devices reducing the voltage of wires with respect to earth	
3/V	Tolerable induced voltage in telecommunication circuits protected by special devices	
4/V	Danger to cables due to a high-potential gradient	
5/V	Protection of telecommunication cables against induction	
6/V	Tolerable voltages between conductors and cable sheath bearing in mind the use of plastic insulators (possible amendments in the <i>Directives</i> )	
7/V	Earthing problems associated with the use of cables with plastic covering	
8/V	High-security power line fault statistics	
9/V	Co-existence of telecommunication lines and power lines	
10/V	Booster transformers	
11/V	Devices for reduction of noise	
12/V	Coefficients of sensitivity	
13/V	Unbalance of telephone installations	
14/V	Need for screening of cables with plastic covering	
15/V	Reduction of harmonics in special cases	
17/V	d.c. power lines at very high voltage	
19/V	Effect of radio station emissions on telecommunication circuits	
21/V	Protection of power-feeding systems and transistorized repeats	
22/V	Protection against lightning	In co-operation with S.G. XV in existing PFP Working Party  Also Question 14/VI to be studied by CDF Joint Working Party of S.G. V and VI. S.G. V will co-ordinate the study
23/V	Problem of interconnection with carrier systems on power lines	
24/V	Interconnection of earthing systems	Addition of a bibliography. Includes studies coming under former Question 18 (1964-68)  To be studied by TER Joint Working Party of S.G. IV, V, VI, XI and XV. S.G. V will co-ordinate the study
26/V	Revision of the <i>Directives</i>	
		Editorial group



## STUDY GROUP VI

No. of the Question	Summary	Remarks
1/VI	Aluminium cable sheaths. Protective covering for these sheaths	Also Question 22/V. To be studied by CDF Joint Working Party of S.G. V and VI
2/VI	Cable sheaths made of metal other than lead or aluminium	
3/VI	Use of plastic materials as protective coverings for cable sheaths	
4/VI	Cable sheaths made entirely of plastics	
5/VI	Attacks on plastic materials by insects and rodents	
6/VI	Cables with plastic-insulated conductors	
7/VI	Maintenance by pressurized gas	
8/VI	Classification of non-electrolytic corrosion	
9/VI	Joint cathodic protection of several networks	
10/VI	Unusual cases of corrosion	
11/VI	Amendments to the <i>Recommendations</i>	
12/VI	Revision of the booklet on preservation of wooden poles	
13/VI	Corrosion due to exchange of current with adjacent electrodes	
14/VI	Protection against lightning	
15/VI	Protection of screens and armouring	
16/VI	Deterioration of plastic sheaths	
17/VI	Stray alternating currents	
18/VI	Requirements for armouring	
19/VI	Problems resulting from the use of non-conducting pipes	
20/VI	Incorporation of insect repellents in cable sheaths	

## STUDY GROUP VII

No. of the Question	Summary	Remarks
1	List of Definitions	
2	Graphical symbols recommended for Telecommunications	

*Note.* — Study Group VII (Means of expression) was not very active during the period 1964–1968 and it was proposed that it be merged with C.C.I.R. Study Group XIV. Pending a decision on this matter, the Study Group has been provisionally retained in its present form with its terms of reference unchanged (vocabulary and graphical symbols) but without any detailed assignment of questions.

## STUDY GROUP VIII

No. of the Question	Summary	Remarks
7/VIII	Error detection via the return circuit	
9/VIII	What standards should be set for the characteristics of apparatus working at modulation rates up to 200 bauds and above with alphabet No. 5?	

## STUDY GROUP IX

No. of the Question	Summary	Remarks
3/IX	Noise limits for telegraphy	To be studied by the LTG Working Party
5/IX	Noise measurements on circuits for telegraphy and data transmission	To be studied by the LTG Working Party
6/IX	Study of distortion as a function of modulation rate using standard equipment, and consequent planning limits	
11/IX	Definitions concerning telegraph transmission quality	
12/IX	Effect on telegraph distortion of sudden changes of level	
14/IX	Frequency-modulated voice-frequency telegraph systems	
18/IX	Extension of Recommendations R.50, R.57 and R.75 to cover frequency modulation	
22/IX	Automatic maintenance tests of telegraph circuits	To be studied by MAT Joint Working Party
24/IX	Time-division of a telephone channel for synchronous telegraphy	Of concern to S.G. VIII
26/IX	Synchronous systems for special codes	Of concern to S.G. VIII
28/IX	Effect of sudden phase changes on telegraph distortion	In conjunction with S.G. IV: Question 3/IV
29/IX	Telegraph transmission frequency division multiplex systems for data signalling rates above 200 bits/sec.	
30/IX	Time subdivision of a telephone channel or a primary group for telegraphy and data transmission	Of concern to S.G. Sp. A
31/IX	Time division of a p.c.m. system for telegraphy and data transmission	To be studied first of all by Sp. S.G. D: Question 1/D
32/IX	Subdivision of standardized 50-baud telegraph channel	New Question
33/IX	Frequency-shift modulated voice-frequency telegraph systems for modulation rates of 600 bauds and 1200 bauds	New Question

## STUDY GROUP X

No. of the Question	Summary	Remarks
1/X	Standardization of signalling in the telex and gentex service	Of concern to S.G. I
4/X	Telex and gentex signalling over radio circuits	
6/X	Use of radiotelegraph circuits with ARQ equipment for automatic calls charged on the basis of lapsed time	
7/X	Automatic service over intercontinental circuits	
8/X	World-wide routing plan for telex and gentex services	
9/X*	New telegraph-type network for message and data transmission	Also Question 8/I—to be studied with TGX Joint Working Party
11/X	Maintenance tests of telegraph circuits	Also Question 1/A, point H—to be studied with NRD Joint Working Party
12/X	Use of radiotelegraph circuits with ARQ equipment for automatic calls charged on the basis of efficient time	Also Question 22/IX—to be studied with MAT Joint Working Party
13/X	Traffic forecasts	Of concern to S.G. I
14/X	Further categories of ineffective calls, with additional service codes	Of concern to S.G. I—new Question

## STUDY GROUP XI

No. of the Question	Summary	Remarks
1/XI	Field trials of signalling system No. 6	Study to be conducted by Joint Working Party of S.G. XI—S.G. XIII "System No. 6 Field Trials" (FT6)
2/XI	Insertion and disablement of echo suppressors	Information to be supplied by S.G. XVI (continuation of Question 2/XI studied in 1964–1968)
3/XI	Signalling system No. 6 and future satellite operation	Has bearing on the study of Question 19/XIII
4/XI	Signalling system No. 6 and automatic identification and removal of faulty circuits	Also concerns S.G. IV
5/XI	Signalling system No. 6 and requirements in the international network for common philosophy—National networks	
6/XI	The influence of stored programme control on the development of communication network	
7/XI	Study of methods for the specification of programme logic for stored programme controlled telephone exchanges	
8/XI	Impulsive noise generated in an exchange	Continuation of Question 8/XI studied in 1964–1968

## STUDY GROUP XII

No. of the Question	Summary	Remarks
1/XII	National system reference equivalents in the new transmission plan	Of concern to S.G. XVI
2/XII	Assessment of service transmission quality	Of concern to S.G. II and XIII
3/XII	Asymmetry between the two directions of transmission	
4/XII	Effect of circuit noise on transmission performance	
5/XII	Specification of sound level meters	
6/XII	Users' tolerance of echo and propagation time	
7/XII	Determination of transmission quality by objective measurement	
8/XII	Measuring the efficiency of a microphone or a receiver	
9/XII	Limits applied in national trunk and local networks	
10/XII	Increase in the efficiency of local systems	
11/XII	Limits for intelligible crosstalk	
12/XII	Artificial voices, mouths and ears	
13/XII	Non-linear distortion of telephone apparatus	
14/XII	Extension of the bandwidth transmitted	
15/XII	Measuring of loudness ratings	
16/XII	Maintenance of subscriber sets	Question Africa H
17/XII	Loudspeaker telephones	
18/XII	Statistical study of the implications of Spanish phonetics for telecommunication systems	Question Latin America 5
19/XII	Impedance variations in subscriber lines and telephone sets	
20/XII	Synthetic speech and frequency compression systems	
21/XII	Transmission performance of pulse code modulation systems	Linked with Question 2/D
22/XII	Revision of the Manual on local networks	

## STUDY GROUP XIII

No. of the Question	Summary	Remarks
1/XIII	Effect of demand assignment satellite circuits on the International Routing Plan	
2/XIII	International network facilities. Recommendations for planning and operating procedures	Of concern to S.G. IV
3/XIII	International network management. Recommendations for maintenance procedures	Of concern to S.G. IV
4/XIII	Use of network maintenance signals for transmission of information for maintenance purposes	Of concern to S.G. IV

No. of the Question	Summary	Remarks
5/XIII	New maintenance methods	Of concern to S.G. IV
6/XIII	International service co-ordination centres	Of concern to S.G. IV
7/XIII	Standard method of assessing service quality	
8/XIII	New methods of assessing quality of service	
9/XIII	Field trials of centralized processing of service observation results	
10/XIII	Automatic service observations	
11/XIII	Quality-of-service tests (subscriber-to-subscriber tests)	S.G. II and X to be kept informed
12/XIII	Establishment of a programme of inquiries among subscribers to ascertain their opinion of service quality	S.G. II and XII to be kept informed
13/XIII	Basic principles for the general organization of testing centres and the fault reporting service of the I.S.M.C.	
14/XIII	Comprehensive signalling tests for system No. 4	
15/XIII	Advantage to be obtained by departing from the "busy hour" basis in traffic engineering	Of concern to S.G. II
16/XIII	Use of automatic traffic measuring apparatus for traffic forecasts	
17/XIII	Overall grade of service for international connexions (subscriber-to-subscriber)	
18/XIII	Use of computers for network planning and group dimensioning	
19/XIII	Addition of a new operating facility for "transferred called subscriber" in signalling systems No. 5 <i>bis</i> and No. 6	S.G. XI to be kept informed
20/XIII	Possible operating requirements for interworking between communications satellite systems and the signalling systems No. 5, No. 5 <i>bis</i> and No. 6	In conjunction with S.G. XI (see Question 3/XI)
21/XIII	Field trials of system No. 6	Studies conducted by Joint Working Party S.G. XI—S.G. XIII "System No. 6 Field Trials" (FT6)

## STUDY GROUP XIV

No. of the Question	Summary	Remarks
1/XIV	Transmission of black-and-white facsimile on telegraph circuits	
2/XIV	Black-and-white facsimile transmission by digital coding on telephone-type circuits	Study to be conducted in conjunction with studies of Sp. S.G. A
3/XIV	Increase in speed of facsimile telegraphy in case of analogue transmission on telephone-type circuits	To be studied with LTG Joint Working Party

No. of the Question	Summary	Remarks
4/XIV	Use of modern submarine cables for phototelegraph transmission	To be studied with LTG Joint Working Party
5/XIV*	Black-and-white facsimile transmission on telephone-type circuits	To be studied with LTG Joint Working Party and in conjunction with study of Question S+T of Sp. S.G. A
6/XIV	Use of the same leased telephone-type circuit for simultaneous transmission of facsimile and telegraph signals	To be studied with LTG Joint Working Party
7/XIV*	Facsimile service between subscribers	Of concern to S.G. I and II
8/XIV	Facsimile transmission of colour documents	
9/XIV	High-speed facsimile transmission on wideband circuits	Study to be conducted in conjunction with studies of Sp. S.G. A
10/XIV	Definitions for facsimile telegraphy	
11/XIV	Facsimile transmission via communication satellites	In collaboration with the C.C.I.R.

## STUDY GROUP XV

No. of the Question	Summary	Remarks
1/XV	Characteristics of circuits for high-quality monophonic programme transmissions	
2/XV	Characteristics to be met by pairs of circuits providing stereophonic programme transmissions	
3/XV	Relative gain of international telephone circuit outside the 300–3400-Hz band	Of concern to S.G. IV, XI and XVI
4/XV	Standardization of different types of programme circuits	S.G. III and IV to be kept informed
5/XV	Compandors for telephony	
6/XV	Programme circuits set up on group or supergroup links	
7/XV	Compandors for programme transmissions	
8/XV	Interconnection of sound programme circuits in the basic group	
9/XV	Improvement of signal-to-crosstalk ratio between the two directions of transmission	
10/XV	Fuller specification of echo suppressors; new methods of controlling echo	
11/XV	Protection of the group and supergroup reference pilots against wideband signals; regulators associated with these pilots	
12/XV	Protection of group and supergroup pilots in various cases of through connection	
13/XV	Suppression of line-regulating pilots	
14/XV	Carrier leak in modulating equipments	

No. of the Question	Summary	Remarks
15/XV	Line regulators, group regulators, etc.	S.G. IV to be kept informed
16/XV	Through group and supergroup connection equipment	
17/XV	Overhead lines for carrier systems (Question Africa K.1)	
18/XV	Cable systems with a small number of channels (Questions Africa K.2 and Asia 8)	
19/XV	Crosstalk in programme transmissions in the case of through-connections of groups, etc.	In conjunction with S.G. XVI (Question 6/XVI)
20/XV	Over 2700 channels on 2.6/9.5-coaxial pairs	
21/XV	Over 2700 channels on new type cables	
22/XV	Impedance and levels at group and supergroup distribution frames	
23/XV	Extension of Recommendation G.335 to transistor systems	In collaboration with S.G. IV (Question 4/IV)
24/XV	Characteristics of short and medium-distance systems	
25/XV	Intelligible crosstalk caused by intermodulation with the line pilot	
26/XV	Line stability of cable systems	
27/XV	Terminology for carrier systems	To be studied with LTG Joint Working Party
28/XV	Television on 1.2/4.4-coaxial pairs	
29/XV	Television transmission on the 60-MHz systems	
30/XV	New 1.2/4.4-coaxial pair system	
31/XV	Submarine cable systems	To be studied by LTG Joint Working Party
32/XV	Noise transmitted between interconnected systems	
33/XV	Levels at the input and output of 12-channel terminal equipments	
34/XV	Visual telephone service	
35/XV	Unification of the characteristics of telephone-type circuits used for telegraph, facsimile, data, etc. transmission	To be studied by LTG Joint Working Party
36/XV	Unification of certain characteristics of signals transmitted over telephone-type circuits	
37/XV	Interference at harmonics from the mains	
38/XV	Characteristics of wideband group or supergroup circuits for the transmission of wide-spectrum signal	
39/XV	Characteristics of wide-spectrum signals to be transmitted over wideband group or supergroup circuits	1
40/XV	Definition of the reliability of a system	
41/XV	Reliability objectives for different services	
42/XV	Reliability of transmission systems	
43/XV	Reliability of system components	1
44/XV	Reliability of components	

<sup>1</sup> In the study of these questions, account will be taken of the general studies on the definition of reliability and certain fundamental principles which have been assigned to Special Joint Study Group C (Question 12/C).

## STUDY GROUP XVI

No. of the Question	Summary	Remarks
1/XVI		
Point 1	Characteristics of reference connection	
2	Use of echo suppressors	
3	Balance return loss in national networks	Question 19/XII
4	Improvement in terminal balance return loss with non-linear devices	Question 19/XII
5	Transmission characteristics for an international automatic exchange	
6	Load limits of the systems	Questions 10/XII, 11/C
7	Laboratory assembly representing a connection	Study Group XII <sup>1</sup>
8	Carrier systems for very short distances	Question 24/XV
9	Transmission tests with signalling system No. 6	
2/XVI	Characteristics of leased circuits	
3/XVI	Circuits in satellite communication systems	To be studied in conjunction with Question 6/XII
4/XVI	Attenuation distortion of a connection	
5/XVI	Attenuation difference between the two directions of transmission	Linked with Question 3/XII
6/XVI	Characteristics of national systems	Linked with Question 9/C
7/XVI	Revision of the Manual on automatic networks	

<sup>1</sup> This matter is being examined by Study Group XII, but there is no Question on the subject.

## SPECIAL STUDY GROUP A

No. of the Question	Summary	Remarks
B	Supplement to the vocabulary for data transmission	
C*	Complement to standardization of international alphabet No. 5	See Questions 6/I and 9/VIII; to be studied with ALP Joint Working Party
F*	Automatic originating and answering of calls in the telex network	
H*	New telegraph-type network for message and data transmission	See Question 9/X; to be studied with NRD Joint Working Party
I	Error control in the telegraph network	
J	Use of telephone-type circuit for the simultaneous transmission of: 1) data and telegraph signals; 2) data and speech; 3) data and facsimile signals	To be studied with LTG Working Party
K	Duplex data transmission at 200 bauds, alternating with telephony	



No. of the Question	Summary	Remarks
L	Tests for data transmission systems on telephone-type circuits	
M*	Complement to standardization of the modem at 600/1200 bauds	
N*	Standardization of data signalling rate on telephone-type circuits	
O*	Modem for data signalling rates above 1200 bits per second on the general switched telephone network and 2400 bits per second on telephone-type leased circuits	
Q*	Parallel data transmission for universal use on telephone circuits	
Q bis*	Parallel data transmission systems using the push-button telephone signalling frequencies	
R	Error control in the general telephone network	
S+T	Measurement of phase distortion and transmission loss between subscribers	Results to be reported to S.G. IV and XIV
U*	Specification of frequency-loss characteristics, phase distortion and impulsive noise limits for circuits leased for data transmission; measuring techniques to check these specifications	Of concern to S.G. IV. To be studied with LTG Joint Working Party
V*	Specification of impulsive noise limits for data transmission over switched telephone circuits	Of concern to S.G. XI (Question 8/XI) and S.G. IV (Question 8/IV)
W*	Maintenance methods	Study results to be reported to S.G. IV
Y*	Automatic originating and answering of calls in the telephone network	
Z*	Data transmission over 48-kHz and 240-kHz circuits	
AA*	Acoustic coupling of data terminals to the telephone instrument	
AB*	Use of digital transmission (or pulse code modulation)	To be studied initially by S.G. Sp.D (Questions 11/D and 7/D)
AC*	Use of circuits established by means of satellite	
AD*	Comparative tests of modems	
AE*	Continuation of the compilation of the list of interchange circuits in general	
AF*	Planning limits for the characteristics of telephone-type circuits and wideband circuits used for data transmission	
AG*	Transmission constraints on wideband data system	
AH*	Modems for transmission of medical analogue data	
AI*	Transmission of data over intercontinental telephone-type circuits	
AJ	Future integrated networks for data transmission	Point 3 of this Question is to be studied by S.G. Sp. D (Question 11/D)

## SPECIAL STUDY GROUP C (JOINT C.C.I.T.T./C.C.I.R.)

No. of the Question	Summary	Remarks
1/C	Signal-to-noise ratio and telegraph operation on radio-relay links using tropospheric scatter	To be studied in conjunction with Question 6/XVI
2/C	Noise limits for telegraphy and data transmission on a telephone circuit of more than 2500 km	
3/C	Low-noise channels for very long circuits	
4/C	New rule for subdivision of hourly-mean noise	
5/C	Artificial load for systems providing less than 60 carrier channels	
6/C	Integrating instruments for noise measurements	
7/C	Characteristics of an impulsive-noise measuring instrument for wideband data transmission	
8/C	Noise measurements using a signal having a uniform spectrum	
9/C	National noise allocation	
10/C	Hypothetical reference circuits for very long systems	
11/C	Conventional load of carrier systems	
12/C	Definitions and general studies relating to reliability	

## SPECIAL STUDY GROUP D

No. of the Question	Summary	Remarks
1/D	Planning of digital systems	
2/D	Basic p.c.m. multiplex terminal equipments	
3/D	Signalling for p.c.m. systems	
4/D	Digital switching systems	
5/D	Synchronization of digital networks	
6/D	Digital multiplex hierarchy	
7/D	Interfaces for digital systems	
8/D	Digital transmission systems over cable and radio links	
9/D	High-order digital multiplex equipment	
10/D	Digital coding of non-telephony signals	
11/D	Data transmission over digital systems	
12/D	Incorporation of p.c.m. systems in the present telephone network	

## QUESTIONS FOR STUDY BY JOINT WORKING PARTIES

No. of the Question	Summary	Remarks
11/III	TAF: Tariffs (Africa)	
11/III	TAL: Tariffs (Latin America)	
11/III	TAS: Tariffs (Asia)	
11/III	TEUR: Tariffs (Europe)	
6/I, C of 1/Sp. A	ALP: Use of alphabet No. 5	
8/I = 8/X	TGX: World-wide telex and gentex routing plan	
3/IX, 5/IX, 3/XIV, 4/XIV, 5/XIV, 6/XIV, 35/XV, 36/XV, 38/XV, 39/XV = 1/A points J, U	LTG: Use of lines for purposes other than telephony	
22/IX = 11/X	Automatic telegraph maintenance (GM MAT)	
1/XI = 21/XIII	FT6: Field trials of system No. 6	
21/V	PFP: Protection of power-feeding systems	
1/V	PAR: Protective devices	
22/V = 14/VI	CDF: Protection against lightning	
24/V	TER: Earthing systems	
9/X = 1/A, point A	NRD: New networks for data transmission	

## SUBJECTS FOR STUDY BY THE SPECIAL AUTONOMOUS WORKING PARTIES

GAS 3 Economic and technical comparison of transmission systems

GAS 4 Primary power sources

GAS 5 Economic conditions and development of telecommunication

The subjects for study by GAS 5 are as follows:

1. Significance of national income distribution for telephone penetration
2. Influence of changes in tariffs on the development of telecommunications
3. Structures of a national telecommunication service and the revenue from this national telecommunication service
4. Significance of telecommunications for the development of the national economy
5. Correlation between:
  - the increase in the number of telephone stations, and
  - the annual investment in telecommunications
6. Priorities in national telecommunication development
7. Effect of the composition and training of staff on the level of telecommunication development
8. Relationship between:
  - a) tariff level
  - b) financing structure, and
  - c) development of the network
9. Factors to be taken into consideration in fixing national tariffs.

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## **PART IV**

**SERIES A RECOMMENDATIONS (Organization of the work of the C.C.I.T.T.)**

**SERIES B RECOMMENDATIONS (Means of expression)**

**QUESTIONS ALLOCATED TO STUDY GROUP VII**

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## **SERIES A RECOMMENDATIONS**

### **Organization of the work of the C.C.I.T.T.**

(See also Resolutions)

Recommendation No.	Title
A.10	Collaboration between Study Group VII and other Study Groups.
A.11	New edition of Part I of the <i>List of definitions</i> .
A.12	Collaboration with the International Electrotechnical Commission on the subject of definitions for telecommunications.
A.13	Preparation of a list of graphical symbols for telecommunications.
A.14	Supplement to the <i>List of definitions</i> .
A.20	Collaboration with other international organizations over data transmission.

#### RECOMMENDATION A.10

##### **COLLABORATION BETWEEN STUDY GROUP VII AND OTHER STUDY GROUPS**

*(New Delhi, 1960, and Geneva, 1964)*

The C.C.I.T.T.

*considering that*

in its work Study Group VII may need the assistance of the other Study Groups of the C.C.I.T.T.;

if a Study Group of the C.C.I.T.T. should become aware of the necessity for a new definition, the form of the definition and the associated terms in various languages should be standardized as soon as possible, and in conjunction with C.C.I.T.T. Study Group VII, in order that it can be ensured that there is no conflict with existing terms and definitions,

*unanimously recommends*

that "vocabulary" Working Parties of the other Study Groups of the C.C.I.T.T. should be formed as necessary, the results of their work being communicated directly to Study Group VII.

RECOMMENDATION A.11

## NEW EDITION OF PART I OF THE LIST OF DEFINITIONS

*(Geneva, 1964, amended at Mar del Plata, 1968)*

The C.C.I.T.T.

*considering*

that the *List of definitions of essential telecommunication terms*, Part I (General terms, telephony and telegraphy) is in constant demand; and

that the establishment and publication of a single international list of telecommunication terms and definitions as envisaged in Recommendation A.12 will take several years;

that, to meet the demand for Part I of the I.T.U. *List* and to enable further progress to be made in the form and contents of the *List*, the IVth Plenary Assembly asked the C.C.I.T.T. Secretariat to undertake its republication so as to include:

- the *List of definitions of essential communication terms*, Part I, 2nd edition, 1961;
- Supplements Nos. 1 and 2 to the above *List*;
- additional terms and their definitions approved by the IVth Plenary Assembly of the C.C.I.T.T.;
- all the published and additional terms and definitions mentioned above in Russian and Spanish, the drafts in these languages being in the form of translations from the French and English texts, and prepared by the Administrations of the U.S.S.R. and Spain, which have volunteered to be responsible for the drafts in their respective languages;
- terms for all these definitions, but not the definitions themselves, in German, Italian, Dutch, Polish and Swedish, the drafts of the translated terms being supplied by the administrations concerned;

*unanimously recommends*

that since republication of the *List* in an improved form is an urgent matter but that the above-mentioned administrations have not all been able to furnish the translations required in time for the publication of a multilingual edition during 1964–1968, the C.C.I.T.T. Secretariat should publish an edition of the *List* containing all the terms and definitions approved by the IVth Plenary Assembly of the C.C.I.T.T. and all the translations of these terms and definitions received to date (October 1968) by the Secretariat.

RECOMMENDATION A.12COLLABORATION WITH THE  
INTERNATIONAL ELECTROTECHNICAL COMMISSION ON THE SUBJECT  
OF DEFINITIONS FOR TELECOMMUNICATIONS*(Geneva, 1964, amended at Mar del Plata, 1968)*

The C.C.I.T.T.

*unanimously recommends*

that in order to provide an internationally agreed vocabulary of telecommunications, the C.C.I.T.T. should co-operate with the C.C.I.R. and the International Electrotechnical



Commission for the purpose of preparing those sections concerned with telecommunications in a new edition of the International Electrotechnical Vocabulary.

It is understood that for this purpose there shall be established:

- a joint co-ordination group composed of members of the I.E.C. and of the I.T.U.;
- a number of groups of technical experts to be set up by the joint co-ordination group to prepare the drafts of the various sections of the *Telecommunications vocabulary*.

It is furthermore understood that the joint co-ordination group will be composed of twelve members and that the I.T.U. (itself represented by equal numbers of members of the C.C.I.R. and the C.C.I.T.T.) will be represented on an equal footing with the I.E.C. In the joint co-ordination group

- the Chairman will be chosen from among members of the I.T.U. (C.C.I.T.T. and C.C.I.R.);
- the Secretary will be chosen from among members of the I.E.C. which will also provide the Secretariat.

The Director of the C.C.I.T.T. (and, if the C.C.I.R. agrees, the Director of the C.C.I.R.) will choose the members who will take part on behalf of the I.T.U. in the proposed joint co-ordination group.

### RECOMMENDATION A.13

#### PREPARATION OF A LIST OF GRAPHICAL SYMBOLS FOR TELECOMMUNICATIONS

*(New Delhi, 1960, amended at Geneva, 1964, and at Mar del Plata, 1968)*

The C.C.I.T.T.

*unanimously recommends*

that, in order to provide an internationally agreed list of graphical symbols for telecommunications, the C.C.I.T.T. should continue to co-operate in the work of a C.C.I.T.T./C.C.I.R./I.E.C. Joint Committee which has been set up to prepare the draft of such an internationally agreed list;

it being understood that

within that Joint Committee, the I.T.U. (itself represented by equal numbers of members from the C.C.I.R. and the C.C.I.T.T.) is represented on an equal footing with the I.E.C.;

the Joint Committee is fully representative but is as restricted as possible to be able to work effectively and quickly;

C.C.I.T.T. members of that Joint Committee are empowered to take decisions on questions of symbols (referring to the Study Groups of the C.C.I.T.T. in cases of extreme difficulty) so that the publication of an approved list does not have to await formal approval by following Plenary Assemblies of the C.C.I.T.T.

The list of symbols that have received joint approval is as mentioned in Recommendation B.10.

RECOMMENDATION A.14

## SUPPLEMENT TO THE LIST OF DEFINITIONS

*(Mar del Plata, 1968)*

The C.C.I.T.T.,

*considering*

that revision and re-edition of the complete *List of definitions* cannot be done very frequently, in view of the volume of work involved;

that rapid developments in telecommunications lead to constant change in the terms used and that it is desirable to publish approved terms and definitions with the minimum possible delay, even though these terms and definitions have not been examined to see how they fit into the complete system of terms and definitions for telecommunications;

that terms and definitions proposed at the end of one study period by the Study Groups of the C.C.I.T.T. to a Plenary Assembly cannot ordinarily be examined in time for a formal proposal to amend the *List of definitions* to be put to the same Plenary Assembly,

*unanimously recommends*

that after each Plenary Assembly the C.C.I.T.T. Secretariat should assemble into one list all the terms and definitions, proposed by the various Study Groups, and approved by the Plenary Assembly, and should publish this list in the form of a supplement to the *List of definitions*, on the understanding that the originating Study Group shall be indicated in respect of each term and definition.

The terms and definitions in such supplements shall be given in English and French only, in order that publication shall not be delayed by translation into other languages.

RECOMMENDATION A.20COLLABORATION WITH OTHER INTERNATIONAL ORGANIZATIONS  
OVER DATA TRANSMISSION*(Geneva, 1964, revised at Mar del Plata, 1968)*

The C.C.I.T.T.,

*considering*

that, according to Article 1 of the agreement between the United Nations and the International Telecommunication Union, the United Nations recognizes the International Telecommunication Union as the specialized agency responsible for taking such action as may be appropriate under its basic instrument for the accomplishment of the purposes set forth therein;

that Article 4 of the International Telecommunication Convention states that the purposes of the Union are:

- a) to maintain and extend international co-operation for the improvement and rational use of telecommunication of all kinds;
- b) to promote the development of technical facilities and their most efficient operation with a view to improving the efficiency of telecommunication services, increasing their usefulness and making them, so far as possible, generally available to the public;

that Article 30 of the Convention states that, in furtherance of complete international co-ordination on matters affecting telecommunication, the Union will co-operate with international organizations having related interests and activities;

that in the study of data transmission the C.C.I.T.T. has to collaborate with the organizations dealing with data processing and particularly the International Standardization Organization (I.S.O.) and the International Electrotechnical Commission (I.E.C.);

that this collaboration has to be organized in a manner which will avoid duplication of work and decisions that would be contrary to the principles set out above,

*unanimously declares the view*

that international standards for data transmission should be established with the following considerations in mind:

1. Clearly, it will be the responsibility of the C.C.I.T.T. to lay down standards for *transmission channels*, i.e. aspects of data transmission which require a knowledge of telecommunication networks or affect performance of these networks.

2. The standardization of signal conversion terminal equipment (modems) is the province of the C.C.I.T.T.; the standardization of the junction (interface) between modem and the data terminal equipment is a matter for agreement between the C.C.I.T.T. and the I.S.O. or the I.E.C.

3. Devices designed to detect and (or) correct errors must take account of:

- the error rate tolerable to the user;
- the line transmission conditions;
- the code, which has to meet the exigencies of the data alphabet and the requirements of error-control (this must be such as to give an output satisfactory to the user) together with the requisite signalling (synchronism, repetition, signals, etc.).

Standardization here may not come wholly within the C.C.I.T.T.'s province, but the C.C.I.T.T. has very considerable interests at stake.

4. The alphabet (definition 31.08 in the *List of definitions*) is a "table of correspondence between the written characters, together with some of the functions and the telegraph signals which represent them".

The C.C.I.T.T. and the I.S.O. reached agreement on an alphabet for general (but not exclusive) use for data and message transmission and have standardized a common alphabet which is known as international alphabet No. 5 (C.C.I.T.T. Recommendation V.3) (ISO/R. 646-1967: seven-bit coded character sets for information processing interchange).

Complementary study of some control characters of the alphabet should be effected in co-operation with each other.

5. Coding (definition 31.07 in the *List of definitions*) is “a system of rules and conventions according to which the signals corresponding to a text should be formed, received and translated. . .”. Hence, it consists of a transformation of the format of the signals in the alphabet for taking account of synchronous methods, and introduction of redundancy in accordance with the error-control system. This is not a field in which the C.C.I.T.T. alone may be able to decide; however, no decision should be taken without reference to the Committee, because of the possible restrictions which transmission and switching peculiarities may impose on coding.

When the general switched network is used (telephone or telex) and when the error-control devices are subject to such restrictions (switching signals—reserved sequences) that it will in fact be for the C.C.I.T.T. to undertake the requisite standardizations with assistance from other bodies.

6. The limits to be observed for transmission performance on the transmission path (modem included) fall within the competence of the C.C.I.T.T.; the limits for the transmission performance of the sending equipment and the margin of terminal data equipment (depending on the terminal apparatus and the transmission path limits) should be fixed by agreement between the I.S.O. and the C.C.I.T.T.

7. In all instances, the C.C.I.T.T. alone can lay down manual and automatic operating procedures for the setting-up, holding and clearing of calls for data communications when the general switched network is used, including type and form of signals to be interchanged at the interface between data-processing terminal equipment and data communication equipment.

## SERIES B RECOMMENDATIONS

### Means of expression

Recommendation No.	Title
B.1	Letter symbols for telecommunications.
B.3	Use of the international system of units.
B.4	Transmission units.
B.10	Lists of graphical symbols for telecommunications.

#### RECOMMENDATION B.1

##### LETTER SYMBOLS FOR TELECOMMUNICATIONS

*(former Recommendations B.1 and B.2 of the C.C.I.T.T.  
Geneva, 1964, and Mar del Plata, 1968)*

In order to simplify the reading of documents dealing with telecommunication technique, it is essential to use simple notations in a homogeneous system and having a well-defined meaning. Moreover, it is an advantage, whenever possible, to have notations that have been universally adopted.

Irrespective of the language used, use should be made of the letter symbols for quantities and units recommended by the International Electrotechnical Commission.

In particular:

- the symbol Hz representing hertz should be used as the unit of frequency
- the symbol dB should be used to represent decibel
- the symbol N should be used to represent newton
- the symbol Np should be used to represent neper.

Abbreviations representing measurement conditions are not covered by this recommendation (for example, “r” for “relative value”, “p” for “psophometric” etc.). These abbreviations are under study.

RECOMMENDATION B.3

## USE OF THE INTERNATIONAL SYSTEM OF UNITS

*(Former Recommendation 6 of the C.C.I.F. amended at New Delhi, 1960,  
and at Geneva, 1964)*

In their mutual relations it is desirable that the I.T.U. and its permanent organs and administrations and private operating agencies should:

1. use the units of the system adopted by the International Committee for Weights and Measures and endorsed by the I.S.O. and known as the "international system of units (S.I.)" based on the following fundamental units: metre, kilogramme, second, ampere, degree Kelvin and candela;
2. in principle, use electrotechnical relationships in their rationalized form.

RECOMMENDATION B.4

## TRANSMISSION UNIT

*(Mar del Plata, 1968)*

The C.C.I.T.T.,

*considering*

that for the purposes of transmission measurements and the expression of the results of such measurements, two transmission units namely, the neper and the bel, together with their submultiples were provisionally recommended on an equal footing by the 1926 Plenary Assembly of the Comité Consultatif International des Communications téléphoniques à grande distance, and that until now, the C.C.I.T.T. has continued to use these two units on an equal footing;

that now, as then, it would be convenient for international specification limits and for the exchange of information at international level concerning the results of transmission measurements to use only one transmission unit;

that although national administrations still differ in the transmission unit that they use within their own country, both the neper and the decibel are in common use, and sometimes both within one country;

that for radiocommunications, the decibel is the only unit used for expressing measurement results in transmission units,

*unanimously recommends*

that countries can continue to use either the neper or the decibel for measurement purposes within their own territory;

that for the international exchange of information concerning line transmission measurement and related values and for the international specification of limits for such values the only transmission unit to be used should be the decibel<sup>1</sup>;

that to avoid unnecessary conversion of values, countries which prefer to do so can continue to use the neper between themselves by bilateral agreement;

that for theoretical, scientific calculations, where ratios are expressed in terms of logarithms to the base "e", the neper will always be used, implicitly or explicitly.

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<sup>1</sup> During the period between the IVth and Vth C.C.I.T.T. Plenary Assemblies, the Study Groups will decide which will be the values in decibels to be employed in the various C.C.I.T.T. volumes. The values to be shown in decibels only will be introduced in the C.C.I.T.T. publications following the Vth Plenary Assembly, when each Study Group has fixed the value to be adopted in each case.

## RECOMMENDATION B.10

### LISTS OF GRAPHICAL SYMBOLS FOR TELECOMMUNICATIONS PUBLISHED BY THE I.E.C. THAT HAVE RECEIVED C.C.I.T.T. APPROVAL

*(Mar del Plata, 1968)*

The C.C.I.T.T. having co-operated in the work of the C.C.I./I.E.C. Joint Committee set up for the purpose of establishing an internationally approved list (see Recommendation A.13) of graphical symbols for telecommunications, recommends that on diagrams for international use concerning telecommunications, the administrations and private operating agencies of the C.C.I.T.T. and the C.C.I.T.T. Secretariat should use the graphical symbols contained in the following publications of the I.E.C. which the above Joint Committee has approved. See also annexes 2, 3 and 4 to this Recommendation, giving details of documents at present (March 1968) under study but for which approval is expected within the next year.

Number	I.E.C. Publication Date	Edition	Title
117-1	1960	1	Kind of current, distribution systems, methods of connection and circuit elements
Am 1	1966		
Am 2	1967		
117-2	1960	1	Machines, transformers, primary cells and accumulators
Am 1	1966		
117-3	1963	1	Contacts, switchgear, mechanical controls, starters and elements of electro-mechanical relays
Am 1	1966		
117-4	1963	1	Measuring instruments and electric clocks
117-5	1963	1	Generating stations and substations, lines for transmission and distribution
117-6	1964	1	Variability, examples of resistors, elements of electronic tubes, valves and rectifiers
Am 1	1966		
Am 2	1967		
117-7	1966	1	Semi-conductor devices: capacitors
117-8	1967	1	Symbols for architectural drawings
117-9	*		
117-10	*		
117-11	*		

\* About to be printed. See details in annex 1.

#### ANNEX 1 (to Recommendation B.10)

Three further parts of Publication No. 117 will be available shortly. These will cover the following subjects:

Publication C.E.I.—117-09: Universal symbols for telecommunication switching systems—Symbols for selectors—Symbols for hand generators—Symbols for microphones, earphones, loudspeakers, recording, reproducing and erasing heads, and hydrophones—Symbols for telephone sets and exchange equipments—Symbols for telegraph equipments.

Publication C.E.I.—117-10: Symbols for elements of microwave tubes—Examples of symbols of microwave tubes—Symbols for elements of microwave technology.

Publication C.E.I.—117-11: Symbols for aerials (antennae—Symbols for radio stations.

#### ANNEX 2 (to Recommendation B.10)

Symbols in the following I.E.C. documents are awaiting approval by the I.E.C.

Document C.E.I. 3(CO)514: Additional symbols for semi-conductor devices and proposed amendments to certain symbols in Publication 117-7



- Document C.E.I. 3(CO)515: Additional symbol for Chapter III, section C of Publication 117-3  
 Document C.E.I. 3(CO)516: Symbols for telecommunication lines, circuits and radio links  
 Document C.E.I. 3(CO)517: Block symbols for transmission and miscellaneous applications  
 Document C.E.I. 3(CO)518: Block symbols for recorders and reproducers  
 Document C.E.I. 3(CO)519: Symbols for space-service stations  
 Document C.E.I. 3(CO)520: Symbols for frequency spectrum diagrams

### ANNEX 3 (to Recommendation B.10)

The under-mentioned I.E.C. documents contain lists of symbols agreed upon by the Joint Working Group but which are still under consideration

- Document C.E.I. 3(Secr.)380: Symbols for lasers and masers  
 Document C.E.I. 3(Secr.)381: Symbols for piezoelectric crystals and delay lines  
 Document C.E.I. 3 (Secr.)382A: Symbols for threshold devices, equalizers, pre-emphasis and de-emphasis networks  
 Document C.E.I. 3(Secr.)387: Additional symbols for transformers (repeating coils)  
 Document C.E.I. 3(Secr.)389: Symbols for contact units and simple switches

### ANNEX 4 (to Recommendation B.10)

Symbols proposed by the C.C.I.T.T. and under study or not yet studied by the Joint Working Group

*Number of symbol in contribution COM VII—No. 37 (1957–1960):*

55–62	381–385
81–83.2	411–461
90–93	481–484
193.8	501, 502, 511
231 and 231.1	561–593
303	605.1–605.4
351 and 351.1	701
380.1 and 380.2	723–731 (only polarization markings)

## **QUESTIONS ALLOCATED TO STUDY GROUP VII FOR 1968–1972**

Study Group VII (Means of expression) was not very active during the period 1964–1968 and it was proposed that it be merged with C.C.I.R. Study Group XIV. Pending a decision on this matter, the Study Group has been provisionally retained in its present form with its terms of reference unchanged (vocabulary and graphical symbols) but without any detailed assignment of questions.

**Question 1/VII — List of definitions**

**Question 2/VII — Graphical symbols recommended for telecommunications**

