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**MAINTENANCE:  
INTERNATIONAL LEASED CIRCUITS**

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**PRELIMINARY EXCHANGE OF INFORMATION  
FOR THE PROVISION OF INTERNATIONAL  
LEASED CIRCUITS AND INTERNATIONAL  
DATA TRANSMISSION SYSTEMS**

**ITU-T Recommendation M.1045**

(Previously "CCITT Recommendation")

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## FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

ITU-T Recommendation M.1045 was revised by ITU-T Study Group 4 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 12th of May 1996.

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## NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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**PRELIMINARY EXCHANGE OF INFORMATION FOR THE PROVISION OF  
INTERNATIONAL LEASED CIRCUITS AND INTERNATIONAL  
DATA TRANSMISSION SYSTEMS**

*(Geneva, 1980; revised in 1984, 1988, 1993, 1996)*

In view of the need for close cooperation between Administrations during the provision and line-up of international leased circuits and international data transmission systems, and the importance which Administrations attach to such circuits, it is essential for the appropriate authorities in the Administrations involved to exchange relevant information at the earliest possible time after the prospective renter at one end has requested the provision of a leased circuit.

Such preliminary exchange of information, which should preferably be by telex (or, by bilateral agreement, using an alternative form of information exchange such as facsimile or electronic mail), should include:

- a) the name and addresses of the renter at both ends of the circuit;
- b) the circuit characteristics, for example, Recommendation M.1020 [1];
- c) the telephone and telex number of the contact points within the Administration for discussing and agreeing:
  - the date and time for overall line-up;
  - the Ready-for-Service (RFS) date;
- d) any special considerations that may apply, for example, restricted access to the renter's premises, type of service to be carried, location of any necessary equalizers;
- e) proposals concerning:
  - the circuit designation (which is covered by clause 3/M.1400 [2]) and additional information contained in related information as defined in clause 4/M.1400;
  - the control and sub-control stations;
  - the date and time for overall line-up;
  - the Ready-for-Service (RFS) date.

In order to avoid any delay, the information in points 1 to 5 of Annex A should, as far as it is available at that time, be sent to the distant Administration, as soon as the request is received. On receiving this message, the distant Administration, after consulting the local renter (if necessary), shall then confirm or deny the request for a connection.

The above information may be the responsibility of one or more sources within a particular country.

So that the necessary staffing and other arrangements can be made, it is particularly important that early agreement be reached between the involved Administrations on the RFS date, and the date and time of the overall line-up. For this and other purposes, the contact point information (see items 8 and 9 in Annex A) is essential and should always be exchanged. Adequate time should be allowed between lining up the national and international circuit sections, the overall circuit line-up and the RFS date to permit the RFS date to be met in the event that the first overall circuit line-up attempt fails and a new date and time for a second attempt needs to be agreed. Where the involved Administrations are unable to agree on dates for the RFS or overall line-up at the time of the preliminary exchange of information, these matters should be discussed and agreed between the contacts points at the earliest possible time.

Annex B shows a similar list of items which may be used to exchange information when bringing-into-service an international data transmission system.

Annex C shows an example of a message confirming a request for a new international leased circuit, the request having originated in the list of items shown in Annex A.

Annex D gives an explanation of the information that may be included in the fields of the M.1045 forms for the provision of both international leased circuits and international data transmission systems.

## Annex A

### Items to be used for messages concerning the provision of a new international leased circuit

(This annex forms an integral part of this Recommendation)

ADMINISTRATION/OPERATING COMPANY

DATE:

REF. NUMBER:

WE HAVE RECEIVED ORDERS TO PROVIDE A NEW INTERNATIONAL LEASED CIRCUIT  
AS FOLLOWS:

1 NATIONAL RENTER:

2 DISTANT RENTER:

3a) READY FOR SERVICE DATE/TIME:

3b) DISCONNECT DATE (WHEN NECESSARY):

WE MAKE THE FOLLOWING PROPOSALS:

4 DESIGNATION:

5 RELATED INFORMATION (REF. REC. M.1400)

RI 1	URGENCY FOR RESTORATION	1	_____ ;
RI 2	TERMINAL COUNTRIES	2	_____ ; _____ ;
RI 3	CARRIER'S NAMES	3	_____ ; _____ ;
RI 4	CONTROL AND SUB-CONTROL STATIONS	4	CS : _____ ;
	SCS1: _____ ;		
	SCS2: _____ ;		
RI 5	FAULT REPORTING POINTS	5	_____ ;
RI 6	ROUTING (MAIN PATH)	6	_____ ;
RI 7	ASSOCIATION	7	_____ ;
RI 8	EQUIPMENT INFORMATION	8	_____ ;
RI 9	USE	9	_____ ;
RI 10	TRANSMISSION MEDIUM INFORMATION	10	_____ ;
RI 11	COMPOSITION OF TRANSMISSION	11	_____ ;
RI 12	BANDWIDTH OR BIT RATE	12	_____ ;
RI 13	SIGNALLING INFORMATION	13	_____ ;
RI 14	APPLICABLE RECOMMENDATION	14	_____ ;

6 INTERFACE REQUIREMENTS FOR:

NATIONAL RENTER:

DISTANT RENTER:

PLEASE NOTE THE FOLLOWING:

7 OVERALL LINE-UP DATE/TIME:

INTERNATIONAL SECTION:

END-TO-END:

8 ADMINISTRATION CONTACT POINT FOR DISCUSSING/AGREEING LINE-UP DATES:

PHONE:

TELEX:

FAX:

9 ADMINISTRATION CONTACT POINT FOR DISCUSSING/AGREEING RFS DATE:

PHONE:

TELEX:

FAX:

10 TECHNICAL CONTACT POINT FOR BRINGING CIRCUIT INTO SERVICE:

PHONE:

TELEX:

FAX:

11 ADMINISTRATION CONTACT POINT FOR DISCUSSING/AGREEING NETWORK ROUTING:

PHONE:

TELEX:

FAX:

12 ACCESS TIMES AT NATIONAL RENTER'S PREMISES:

DISTANT RENTER'S PREMISES:

13 ADDITIONAL REMARKS:

WE AWAIT YOUR COMMENTS, REGARDS





## Annex D

(This annex forms an integral part of this Recommendation)

This annex explains the information that may be included in the appropriate fields of this Recommendation for both international data transmission systems and international leased circuits. The information given in each of the fields is optional and Administrations/operating companies may decide not to use all of the fields in the messages they send.

### Annex A: Items to be used for messages concerning the provision of a new international leased circuit

1 **National renter** – This field shall give the name, address and contact telephone/facsimile number for the circuit renter in the country of origin of the circuit order.

It is recommended to include the contact details for both the circuit terminating point and the customer contact responsible for circuit ordering, if these are not the same.

2 **Distant renter** – This field shall give the name, address and contact telephone/facsimile number for the circuit renter in the distant end country.

It is recommended to include the contact details for both the circuit terminating point and the customer contact responsible for circuit ordering, if these are not the same.

3a) **Ready for service date/time** – The originating Administration/operating company will provide a proposed ready for service date and/or time. The destination Administration/operating company will agree to this time, or provide another proposed date/time.

3b) **Disconnect date (when necessary)** – This field is used to propose the disconnect date when either a circuit is to be ceased, or a temporary circuit is to be taken down.

4 **Designation** – The originator of the M.1045 message should propose a designation to the other Administration/operating company. This designation should follow the full M.1400 procedures for assigning circuit identification.

5 **Related information** – The information that may be included in the related information fields is given in Recommendation M.1400.

6 **Interface requirements for: National Renter/Distant Renter** – This field may be used to demonstrate the renter's interface requirements at each terminal location. It is recommended that the user insert the physical/electrical characteristics of the interface, e.g. Recommendations V.24, X.24, V.10, V.11, etc.

7 **Overall line-up date/time: International Section/End-to-End** – The originating Administration/operating company will give the proposed dates and times of both international section and end-to-end tests to the destination Administration/operating company.

8, 9, 11 **Administrative contacts** – A number of contacts in the originating company may be given to discuss issues such as line-up dates, ready for service dates, and network routing. The contact details should include a name and telephone number.

10 **Technical contact** – A contact to discuss technical issues such as testing of the circuit. The contact details should include a name and telephone number.

12 **Access times at renter's premises** – This field gives information about when the Administration/operating company may gain access to the customer's premises for any testing required.

13 **Additional remarks** – This field may be used to include additional information that is specific to an Administration/operating company and gives extra information required to set up and maintain the circuit. Examples of additional information are the coordinating carrier when One Stop Shopping is being used, customer service guarantees, etc.



## **Annex B: Items to be used for messages concerning the provision of a new international data transmission system**

- 1 **National terminating point** – This field shall give the terminating point of the international data transmission system in the originating country.
- 2 **Distant terminating point** – This field shall give the terminating point of the international data transmission system in the distant end country.
- 3a) **Ready for service date/time** – The originating Administration/operating company will provide a proposed ready for service date and time. The destination Administration/operating company will agree to this time, or provide another proposed date and time.
- 3b) **Disconnect date (when necessary)** – This field is used to propose the disconnect date when either an international data transmission system is to be ceased, or a temporary international data transmission system is to be taken down.
- 4 **Designation** – The originator of the M.1045 message should propose a designation to the other Administration/operating company. This designation should follow the full M.1400 procedures for assigning circuit identification.
- 5 **Related information** – The information that may be included in the related information fields is given in Recommendation M.1400.
- 6 **Type of in-service monitoring** – This field may be used to indicate what type of in-service monitoring (if any) is being used on the international data transmission system. An example of the type of in-service monitoring that could be used is CRC4.
- 7 **Overall line-up date/time** – The originating Administration/operating company will give the proposed dates of the international test to the destination Administration/operating company.
- 8, 9, 11 **Administrative contacts** – A number of contacts in the originating company may be given to discuss issues such as line-up dates, ready for service dates, and network routing. The contact details should include a name and telephone number.
- 10 **Technical contact** – A contact to discuss technical issues such as testing of the system. The contact details should include a name and telephone number.
- 12 **Additional remarks** – This field may be used to include additional information that is specific to an Administration/operating company and gives extra information required to set up and maintain the system.

## **References**

- [1] ITU-T Recommendation M.1020 (1993), *Characteristics of special quality international leased circuits with special bandwidth conditioning*.
- [2] CCITT Recommendation M.1400 (1992), *Designations for international networks*.