

**ITU-T**

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STANDARDIZATION SECTOR  
OF ITU

**D.4**

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SERIES D: GENERAL TARIFF PRINCIPLES

General tariff principles – Private leased  
telecommunication facilities

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**Special conditions for the lease of international  
(continental and intercontinental) sound- and  
television-programme circuits for private  
service**

ITU-T Recommendation D.4

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## **ITU-T Recommendation D.4**

### **Special conditions for the lease of international (continental and intercontinental) sound- and television-programme circuits for private service**

#### **Summary**

This Recommendation details the provisions applicable to leased international (continental and intercontinental) sound- and television-programme circuits and associated control circuits for private service. The provisions of this Recommendation should be applied in conjunction with ITU-T Rec. D.1, except where specifically stated otherwise.

Sound- and television-programme circuits provided on an occasional basis are subject to the provisions of ITU-T Rec. D.180. Provisions governing the technical aspects and maintenance of sound- and television-programme circuits are contained in the J-, M-, and N-series Recommendations.

#### **Source**

ITU-T Recommendation D.4 was approved on 16 September 2005 by ITU-T Study Group 3 (2005-2008) under the WTSA Resolution 1 approval procedure.

## FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. 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 Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

## NOTE

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

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

## INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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# ITU-T Recommendation D.4

## Special conditions for the lease of international (continental and intercontinental) sound- and television-programme circuits for private service

### 1 General principles

1.1 The general principles as stated in clause 1/D.1 and clause 1/D.180, where applicable for leased international sound- and television-programme circuits, shall serve as the general principles for this Recommendation. The Administrations concerned may agree upon additional principles, if desired.

1.2 This Recommendation is intended to cover the use of circuits for sound- and television-programme transmission purposes only, unless otherwise agreed upon by the Administrations providing the circuits.

### 2 Definitions

The definitions applicable to the lease of sound- and television-programme circuits are contained in clause 3/D.180. Illustrative diagrams of such circuits are included herewith as examples for reference purposes. It should be noted that these diagrams, which are extracts from ITU-T Rec. D.180, do not cover all situations (e.g., leased sound- and television-programme circuits are not always routed by the International Sound-Programme Centres (ISPCs)/International Television-Programme Centres (ITPCs)).

#### 2.1 Constitution of sound- and television-programme connections

See Figures 1 and 2.

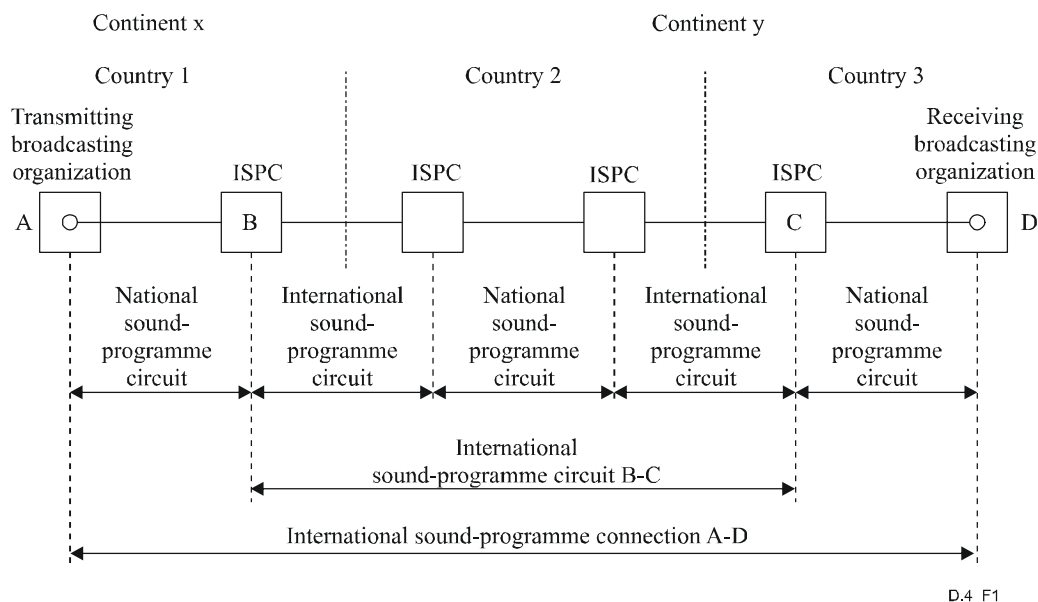
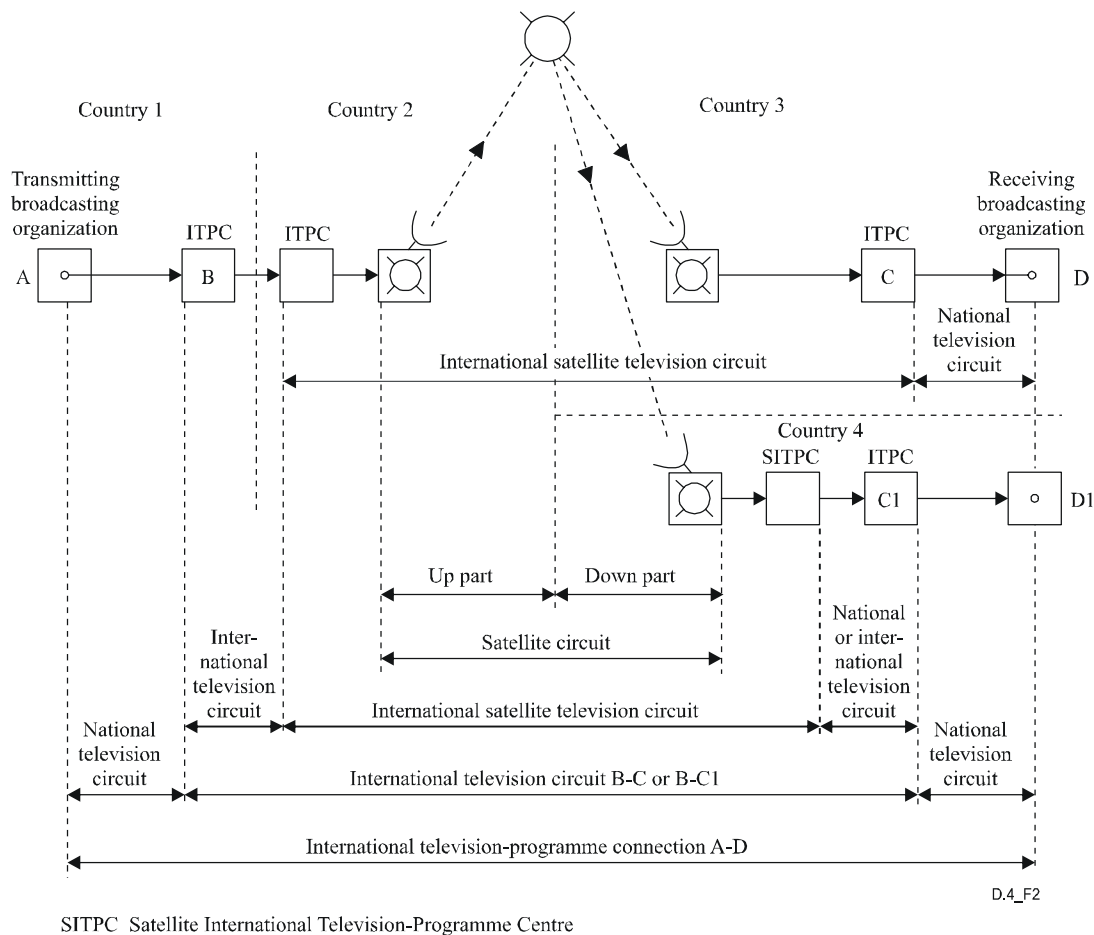


Figure 1/D.4 – Example of an international sound-programme connection



**Figure 2/D.4 – Example of an international television-programme connection involving a satellite circuit**

### 3 Duration of the lease, charging and cancellation

**3.1** This Recommendation applies to sound- and television-programme circuit leases for minimum periods as established by Administrations. This Recommendation shall apply to leases lasting normally not less than 24 hours, taking into account the availability of the communications facilities used in the provision of these circuits (e.g., facilities may not be available in all cases for short-term use). If a circuit is cancelled at the request of a customer prior to the end of either the ordered or the minimum lease period, special charges may be applied as a result of early termination.

**3.2** In the provision of leased sound- and television-programme circuits, Administrations should take into account the provisions of clause 5/D.1, where applicable.

**3.3** In establishing the charges for leased sound- and television-programme circuits, Administrations should take into account the provisions of clause 6/D.1.

**3.4** Administrations shall specify the period of notice required for cancellation prior to the initiation of service.

**3.5** In the case of leased television-programme circuits, chargeable periods may commence on the day a circuit is activated and continue through the last day a circuit is furnished.

**3.6** In calculating the chargeable terrestrial circuit lengths, Administrations shall apply the arrangements in 6.5/D.180. In special cases, Administrations may agree among themselves upon the



chargeable circuit lengths (e.g., for submarine cables, radio-relay links with difficult terrain conditions, transit circuits, etc.).

**3.7** Administrations may establish additional charges for special services rendered at the request of customers. Examples of these special services are:

- the provision of leased programme circuits which are adapted for multiple use by means of equipment provided by Administrations;
- the provision of switching units at the ends of leased programme circuits to allow their connection with other circuits, e.g., with occasionally provided programme circuits;
- reversals in the direction of transmission;
- the establishment of special categories of circuits.

## **4 Ordering of circuits and conditions of acceptance**

### **4.1 Orders**

**4.1.1** Each order, which should be clearly identified as such, carries with it an undertaking to pay all the charges relating to the use of the facilities ordered, including any cancellation fee or special expenses which may be incurred in connection with the order.

**4.1.2** The Programme Booking Centre (PBC) receiving orders should confirm acceptance and availability of circuits as soon as possible.

**4.1.3** The broadcasting organizations should be entitled, prior to the date of provision, to enquire from their Administration information on all special expenses accruing for the provision of circuits for international sound- and television-programme transmissions.

A cost estimate of all special national expenses and international expenses should be submitted to the broadcasting organizations before placing a circuit order.

### **4.2 Handling of enquiries and orders received by Administrations**

**4.2.1** The Administration which receives an enquiry either about a cost estimate or a circuit order is responsible for passing on this enquiry about a cost estimate or the circuit order to all Administrations involved in order to obtain from them a cost quotation or an order acknowledgement for the requested circuits and equipment.

Enquiries about cost estimates should normally be made and answered before a circuit order is placed.

If no enquiry concerning a cost estimate was made, the order acknowledgement should contain information on all national special expenses for the transmissions ordered.

**4.2.2** Facilities for sound- and television-programme transmissions should be allocated in the sequence in which orders are received.

**4.2.3** For the provision of circuits via satellite:

- a) the Administration receiving the order is responsible for arranging the circuits between the broadcasting organization and the appropriate ITPC at the end of the satellite circuit (SITPC);
- b) the Administration operating this ITPC is responsible for confirming the availability of the satellite circuit and for ordering its portion of that circuit; and
- c) the Administration operating the ITPC at the other end of the satellite circuit is responsible for ordering its portion of the satellite circuit and for arranging the circuits between its ITPC and the other broadcasting organization.

This procedure normally applies to sound-programme and control circuits provided by means of satellite channels specially assigned for use in association with television transmissions but not necessarily to other sound-programme circuits provided via the satellite or to sound-programme circuits provided by any other means, e.g., submarine cable.

## **5 Collection of charges – Accounting**

### **5.1 Collection of charges**

In principle, the Administration with which the order was placed is responsible for collecting the charge for the provision of circuits from the broadcasting organization which placed the order.

### **5.2 Remuneration of Administrations**

The Administration with which the order for the provision of circuits is placed is responsible for the remuneration of all other Administrations involved. For this purpose, all such other Administrations should send to the Administration responsible for collecting charges, the relevant details concerning the provision of the circuits and the amounts corresponding to their credits with monthly invoices. Invoices shall be sent at the latest within 50 days following the end of the month in which the circuits for the sound and television-programme transmissions were provided.

The invoices should additionally contain:

- Address of debtor's Administration;
- Address of creditor's Administration;
- Contact details of creditor's Administration (e.g., electronic mail address or facsimile number);
- Bank contacts;
- Name of the bank;
- Address of the bank;
- Account number;
- SWIFT code;
- IBAN (International Banking Account Number).

**5.2.1** The debtor's Administration is entitled to reject incomplete invoices which do not contain the data defined in 5.2. These invoices will be returned for correction to the creditor's Administration.

**5.2.2** In order to facilitate the smooth exchange of the relevant details concerning the provision of the circuits and the amounts corresponding to their credits, the creditor's Administration may issue invoices in electronic format in addition to paper-based invoices.

### **5.3 Special conditions for temporarily leased circuits**

The Administration responsible for the collection of charges may refuse to make any settlements of invoices presented by other Administrations more than 12 months after the date at which the circuits for the sound- and television-programme transmissions were provided.

### **5.4 Special conditions for permanently leased circuits**

The charges for sound- and television-programme circuits provided on a permanent basis are normally payable in advance.

**5.5** The creditor's Administration which receives an inquiry regarding invoices from the debtor's Administration shall reply in principle within two weeks after receipt.

## **6 Allowances for interruption**

**6.1** In addition to the conditions specified herein, conditions for granting allowances for interruptions on leased sound- and television-programme circuits, with the exception of duration, shall follow the applicable provisions contained in clause 8/D.1 and 6.4/D.180.

**6.2** The duration of interruption on leased sound-programme circuits before an allowance is initiated shall be equal to the periods stated in 8.1/D.1.

**6.3** The duration of interruption on leased television-programme circuits before an allowance is initiated, shall be determined by the Administration concerned before service is started. In no case should this period be greater than the period indicated in 8.1/D.1; generally, the period should be of a lesser duration than that stated in 8.1/D.1.

## **7 Special conditions applicable to both leased sound- and television-programme circuits**

**7.1** Generally, leased sound- and television-programme circuits are unidirectional. In certain cases, alternate two-way circuits are ordered by the customer.

**7.2** As the use of circuits for routing programmes requires close collaboration on the part of the broadcasting organizations concerned, interconnected circuits may be made available by a customer to a coordinating body which acts as a user and operates the circuits in the form of a network. In establishing a network, Administrations should take account of the relevant parts of 6.1.5, 6.1.6 and 6.1.7/D.180.

**7.3** Leased circuits established for the transmission of programmes may in turn be interconnected with circuits made available on an occasional basis by Administrations at the request of the broadcasting organizations.

**7.4** The interconnection of two or more networks may be authorized by the Administrations concerned.

**7.5** Generally, Administrations will not levy any construction charges for terrestrial circuits with a minimum lease period of one year or more. In the case of terrestrial circuits with a lease period of less than one year, Administrations may claim reimbursement for any construction costs incurred, as well as a reasonable compensation for the procurement of special equipment requested by the customer.

**7.6** For satellite circuits, Administrations should take into account the terms and conditions of the provider of the international satellite system being utilized.

## **8 Special conditions applicable to leased sound circuits**

### **8.1 Types of sound circuits**

**8.1.1** The types of sound circuits that may be provided for the transmission of a sound programme, or a sound component of a television programme, are referred to as shown in Table 1 for ordering and charging purposes.

**Table 1/D.4 – Types of sound circuits**

<b>Type of circuit</b>	<b>Approximate bandwidth</b>
Narrow-band	3 kHz
Medium-band	5 kHz
Wideband	10 kHz
Very wideband	15 kHz
Stereophonic pair	2 at 15 kHz each

Detailed technical parameters of some types are given in the J- and N-series Recommendations.

A stereophonic pair consists normally of two very wideband circuits, which must be carefully matched. Each circuit of a stereophonic pair may also be used separately for monophonic transmissions.

## **9 Special conditions applicable to leased television circuits**

When the vertical blanking interval is used to transmit special signals specified by the CCIR (such as VITS, VIRS, DIS and captions for the deaf) no additional charge shall be levied, provided that only information directly related to the switching, quality control or content of the television signal is transmitted.



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