



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

N.51

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

**MAINTENANCE OF INTERNATIONAL
SOUND – PROGRAMME AND TELEVISION
TRANSMISSION CIRCUITS**

**DEFINITIONS FOR APPLICATION
TO INTERNATIONAL TELEVISION
TRANSMISSIONS**

ITU-T Recommendation N.51

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation N.51 was published in Fascicle IV.3 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 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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Recommendation N.51

DEFINITIONS FOR APPLICATION TO INTERNATIONAL TELEVISION TRANSMISSIONS

The following definitions apply to the maintenance of international television transmissions. Other definitions are used for other purposes, e.g. an international television link and international multiple destination television link as defined in §§ 11 and 12 respectively below, are within the definition of an international television circuit as defined by the CMTT.

Note 1 – It is intended that the definitions given in Recommendations N.1 and N.51 should remain identical, so far as is practical, by use of only simultaneous amendments.

Note 2 – A television circuit section, circuit, link or connection is considered to be permanent for maintenance purposes if it is always available for use when required, whether or not it is continuously in use. Such a circuit may be used for the purposes of occasional transmission, i.e. transmissions of short duration (e.g. less than 24 hours) or it may be used for a long duration, i.e. one day or more. A permanent television connection between broadcasting organizations' premises may be used at any time, except only for periods of maintenance as agreed between the Administrations and broadcasting organizations concerned.

A television circuit section, circuit, link or connection is considered to be temporary for maintenance purposes when it has no existence outside the period of transmission (including line-up and testing time) for which it is required.

1 international television transmission

The transmission of video signals over the international telecommunication network for the purpose of interchanging television material between broadcasting organizations in different countries.

2 broadcasting organization

A broadcasting organization is an organization which is concerned with either or both sound and television broadcasting. Most of the customers ordering facilities for sound-programme and television transmission are broadcasting organizations; for convenience, the term broadcasting organization is used to denote the activity of any user or customer and, where so used, it is equally applicable to any other customer requiring sound-programme or television transmissions.

3 broadcasting organization (send)

The broadcasting organization at the sending end of an international television transmission.

4 broadcasting organization (receive)

The broadcasting organization at the receiving end of an international television transmission.

5 international television centre (ITC)

A centre at which at least one international television circuit (see § 9) terminates and in which international television connections (see § 13) can be made up by the interconnection of international and national television circuits.

6 national television centre (NTC)

A centre at which two or more national television circuits terminate and at which national television circuits may be interconnected.

7 television circuit section

The unidirectional national or international television transmission path between two stations at which the programme is accessible at video frequencies. The transmission path may be established via terrestrial or single destination satellite routing. (See Note 2 above and Figures 1/N.51 and 3/N.51.)

8 international multiple destination television circuit section

The unidirectional television transmission path from one frontier station to two or more of the frontier stations at which interconnection is made at video frequencies. (See Note 2 above and Figure 4/N.51.)

9 international television circuit

The transmission path between two ITCs which comprises one or more television circuit sections (national or international) together with any necessary video equipment. The transmission path may be established via terrestrial or single destination satellite routing. (See Note 2 above and Figures 1/N.51 and 3/N.51.)

10 international multiple destination television circuit

The unidirectional transmission path from one ITC to two or more other ITCs comprising television circuit sections (national or international) one of which is an international multiple destination circuit section, together with any necessary video equipment. (See Note 2 above and Figure 4/N.51.)

11 international television link

The unidirectional transmission path between the ITCs of the two terminal countries involved in an international television transmission. The international television link comprises one or more international television circuits (see Figures 1/N.51 and 3/N.51) interconnected at intermediate ITCs. It can also include national television circuits in transit countries. (See Note 2 above and Figure 2/N.51.)

12 international multiple destination television link

The unidirectional transmission path between the ITCs of the terminal countries involved in an international multiple destination television transmission. The international multiple destination television link comprises international television circuits, one of which is an international multiple destination television circuit. (See Note 2 above and Figure 5/N.51.)

13 international television connection

The unidirectional transmission path between the broadcasting organization (send) and the broadcasting organization (receive) comprising the international television link extended at its two ends over national television circuits to the broadcasting organization. (See Note 2 above and Figure 2/N.51.)

14 international multiple destination television connection

The unidirectional transmission path between the broadcasting organization (send) and two or more broadcasting organizations (receive) comprising the international multiple destination television link extended at its end over national television circuits to the broadcasting organizations. (See Note 2 above and Figure 5/N.51.)

15 send reference station

The transmit sub-control station of an international multiple destination television circuit section (see § 8), circuit (see § 10) or link (see § 12). (See Figures 4/N.51 and 5/N.51.)

16 programme originator

A customer at a transmitting country needing up-linking of a transmission to television receive-only stations (TVROs) not related to an ITC (see Figure 6/N.51).

17 international satellite transmission centre (ISTC)

A centre at a transmitting country responsible for the national extension and up-link to satellite. This term is applicable only for transmission to TVROs not related to an ITC (see Figure 6/N.51).

18 television receive-only station (TVRO)

An earth station which is used only for reception (see Figure 6/N.51). In this respect the term is used to denote any TVRO whose owner is authorized to receive the programme material.

19 fault reporting centre (FRC)

A centre at a receiving country dealing with enquiries and fault reports concerning transmission to TVROs not related to an ITC. (See Figure 6/N.51.)

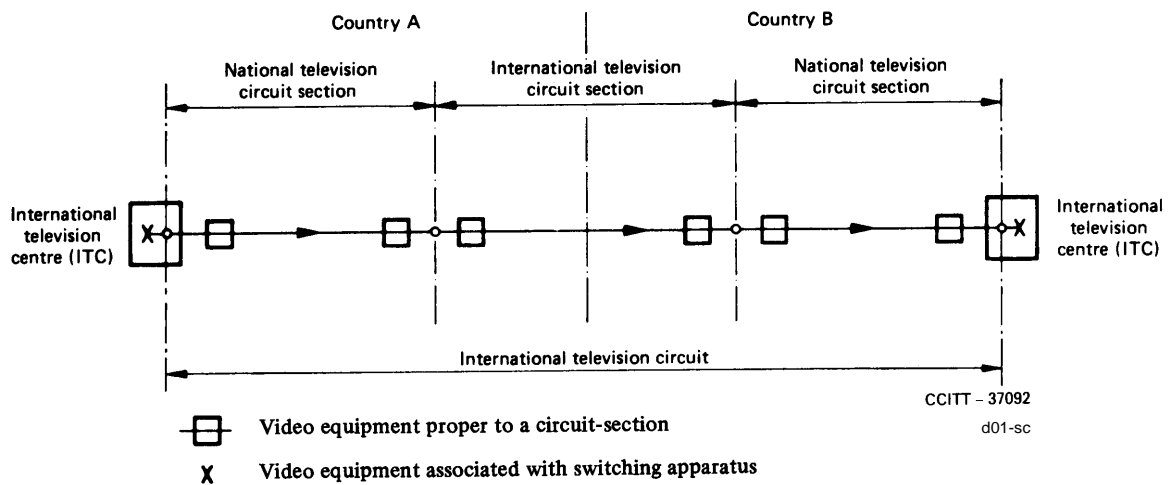


FIGURE 1/N.51

An international television circuit composed of two national and one international television circuit sections

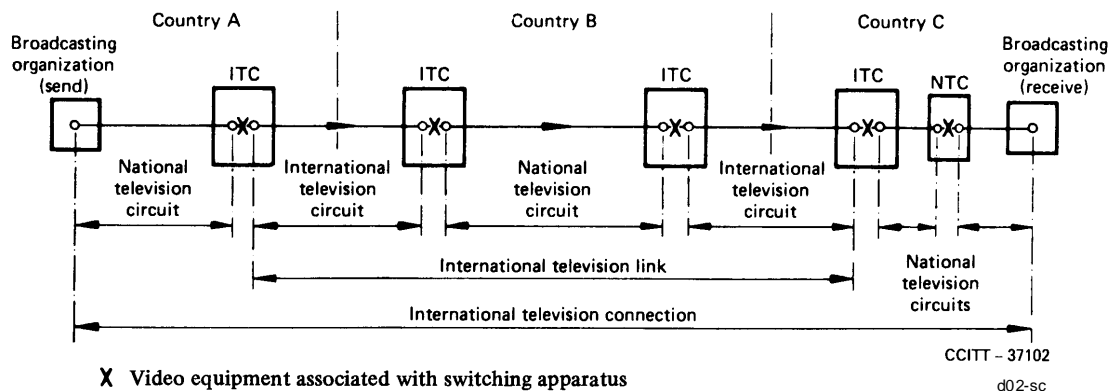
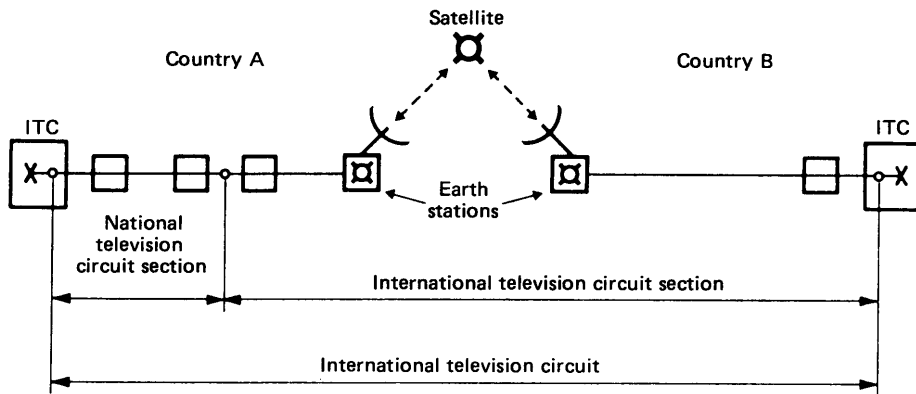


FIGURE 2/N.51

An international television link composed of international and national television circuits and extended on national television circuits at each end to form an international television connection



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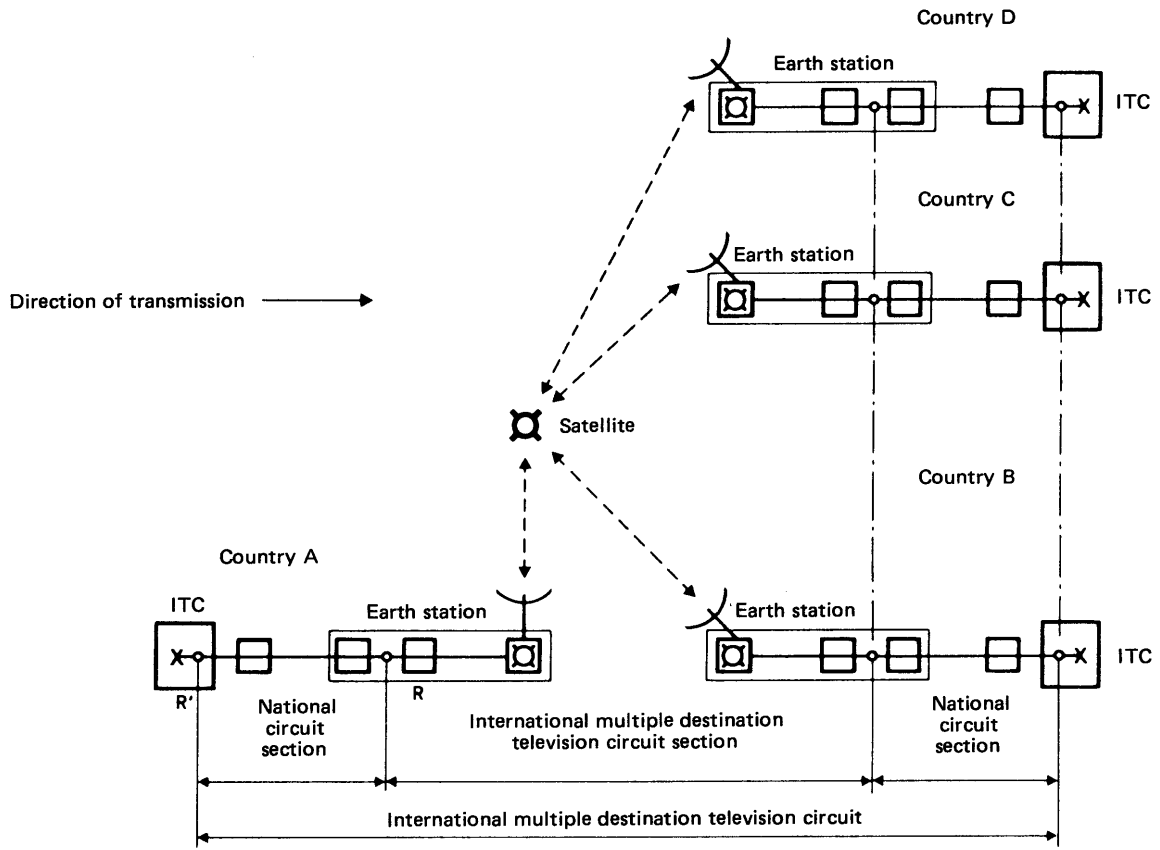
-  Video equipment proper to a circuit section
- X** Video equipment associated with switching apparatus
- ITC International television centre

FIGURE 3/N.51

**Single destination international television circuit
routed via a communications satellite**



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-  Video equipment proper to a circuit section
- X** Video equipment associated with switching apparatus
- ITC International television centre
- R** *Send reference station for international multiple destination circuit section*
- R'** *Send reference station for international multiple destination circuit*

FIGURE 4/N.51

International multiple destination television circuit comprising an international multiple destination satellite circuit section and national terrestrial circuit sections

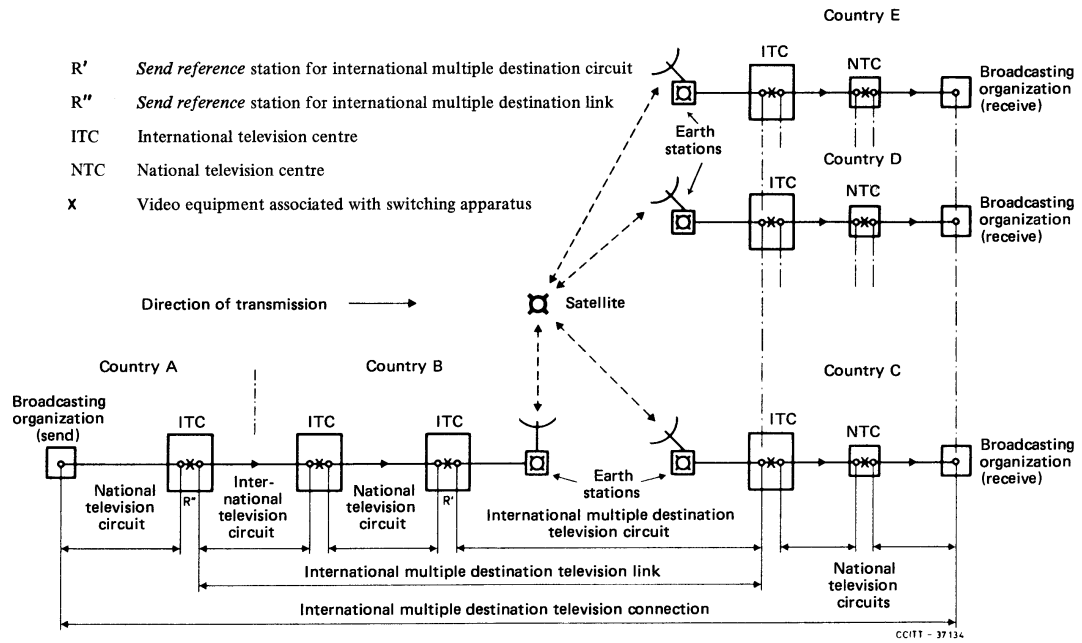
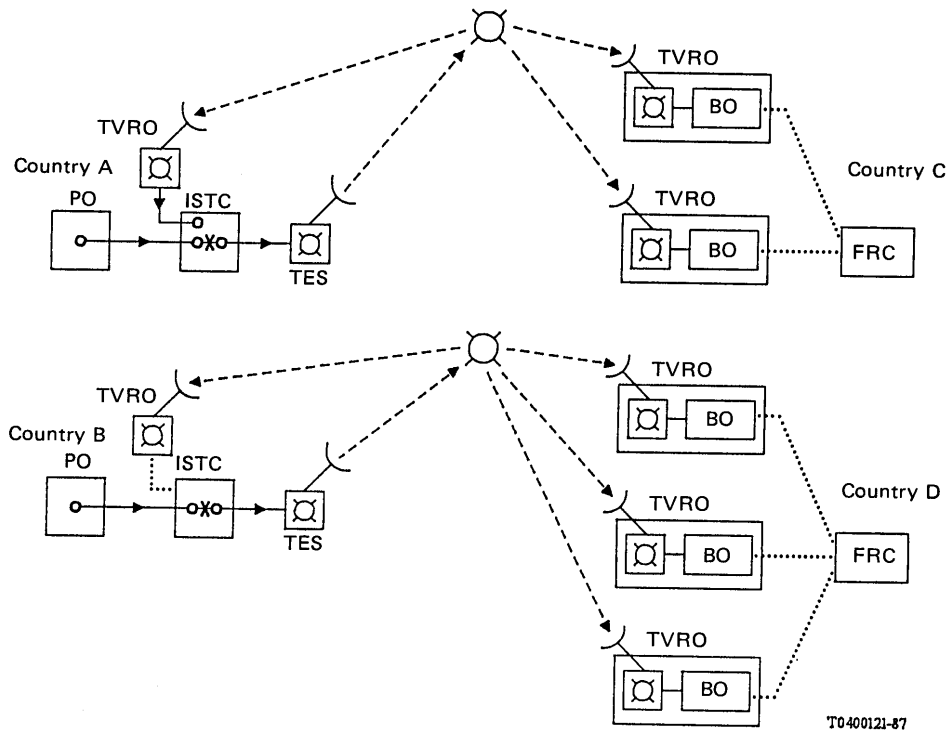


FIGURE 5/N.51

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An international multiple destination television link composed of an international multiple destination television circuit and national and international television circuits extended on national circuits at each end to form an international multiple destination television connection



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- PO Programme originator
- ISTC International Satellite Transmission Centre
- TES Transmitting earth station
- TVRO Television receive only station
- BO Broadcasting organization
- FRC Fault Reporting Centre
- X Video equipment associated with switching apparatus

FIGURE 6/N.51

**An international multiple destination television connection
for TVROs not related to an ITC**