INTERNATIONAL TELECOMMUNICATION UNION

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SERIES H: TRANSMISSION OF NON-TELEPHONE SIGNALS

Telephone-type circuits used for facsimile telegraphy

Document facsimile transmissions on leased telephone-type circuits

ITU-T Recommendation H.43

Extract of **Red Book Fascicle III.4 (1984)**

NOTES

1 ITU-T Recommendation H.43 was published in Fascicle III.4 of the *Red Book*. This file is an extract from the *Red Book*. While the presentation and layout of the text might be slightly different from the *Red Book* version, the contents of the file are identical to the *Red 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.

Recommendation H.43[1)]

DOCUMENT FACSIMILE TRANSMISSIONS ON LEASED TELEPHONE-TYPE CIRCUITS

(Geneva, 1964, amended at Mar del Plata, 1968, and at Geneva, 1972, 1976 and 1980)

1 Type of circuits to be used

The telephone-type circuits used should have characteristics as recommended in Recommendation H.12.

Note – If the leased circuit is used alternately for telephone conversation and facsimile transmission and if the latter is unidirectional, it is not necessary to provide for disabling echo suppressors located on the long-distance leased circuit. However, when such a circuit is used for the simultaneous operation in both directions, appropriate measures should be taken to disable echo suppressors before the actual facsimile transmission takes place.

2 Modulation

Equipment conforming to Recommendation T.2 [2] or Recommendation T.3 [3] may be used. In the case of Recommendation T.2 [2] equipment, either amplitude or frequency modulation may be chosen.

3 Power

The maximum power output of the transmitting apparatus into the line shall not exceed 1 mW whatever the frequency.

For frequency modulation equipment conforming to Recommendation T.2 [2] the level at the transmitter output shall be so adjusted that the level of the facsimile and control signals on the trunk circuit does not exceed –13 dBm0 regardless of the type of operation (duplex or simplex).

For amplitude modulation equipment conforming to Recommendation T.2 [2], higher black levels may be used provided the mean power in any hour, in one direction of transmission, does not exceed 32 μW (–15 dBm0) at a zero relative level point of the trunk circuit.

For equipment conforming to Recommendation T.3 [3], higher white levels may be used provided the mean power in any hour, in one direction of transmission, does not exceed 32 μW (–15 dBm0) at a zero relative level point of the trunk circuit.

4 Multipoint transmission

If facsimile transmissions take place simultaneously from a transmitting station to several receiving stations, arrangements shall be made at the junction points so that, on the circuits following the junction points, the same power levels are maintained as those prescribed for individual transmissions.

5 Phase distortion

Equipment conforming to Recommendation T.2 [2] should not require any special treatment. However, equipment conforming to Recommendation T.3 [3] may require phase distortion correction in some cases.

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1) Recommendation H.43 corresponds to Recommendation T.10 [1].

References

[1] CCITT Recommendation *Document facsimile transmission on leased telephone-type circuits*, Vol. VII, Rec. T.10.

[2] CCITT Recommendation *Standardization of Group 1 facsimile apparatus for document transmission*, Vol. VII, Rec. T.2.

[3] CCITT Recommendation *Standardization of Group 2 facsimile apparatus for document transmission*, Vol. VII, Rec. T.3.