

# JT-I431-b ISDN Primary-Rate (2Mbit/s) User-Network Interface Layer 1 - Specification

## 1. Relations with international standards

This standard is based on ITU-T Recommendation I.431 approved at the WTSC-93.

## 2. Application of this standard

This Standard applies to the 2M bit/s primary-rate user-network interfaces only in international ISDN networks. 1.5M bit/s primary-rate interfaces for national and international ISDN networks, conform to JT-I431. In the case of access to international ISDN networks via a national ISDN network, the interface conforms only to JT-I431.

## 3. Summary of departures from ITU-T Recommendations

- (1) Exclusion of 1544 kbit/s interface

<Reasoning>:

This interface has been already standardized in JT-I431.

- (2) Exclusion of provision of power to the NT via the user-network interface.

<Reasoning>:

This option is not adopted in the TTC standard.

- (3) Exclusion of the connection by coaxial cable on the user-network interface

<Reasoning>:

This option is not adopted in the TTC standard.

- (4) Exclusion of the option of not having the CRC processing in the digital transmission link.

<Reasoning>:

This option is not adopted in the TTC standard.

- (5) Power feeding

<Reasoning>:

It is included for clarification that provision of power from NT to TE is not available, because it is not described in ITU-T Recommendation I.431.

- (6) Electrical environment

<Reasoning>:

This issue is included in the standard, because specifications for lightning surges in groundings are necessary from the viewpoint of safety.

The issue, however, is still open for further study because it is being discussed by the ITU-T SG 5 and relevant national committees.

#### 4. History of revised versions

Version	Date	Outline
1	November 30, 1988	Established
2	April 25, 1990	Updated based on ITU-T recommendation I.431(1988). And updated based on the result of the standard work progress in a meeting in January, 1990.
3	April 27, 1993	Updated based on the result of the standard work progress in WTSC-93 in March, 1993.
4	April 23, 1997	Deleted the disturbance wave regulation from this standard, in order to specify independently.

#### 5. Others

(1) The following issues are for further study.

- Electrical environment
- The use of "Sa" bit in time slot 0

(2) Recommendations and Standards to be referred to

( i ) TTC Standards

JT-I411, JT-I431, JT-Q920, JT-Q921, JT-Q931

( ii ) ITU-T Recommendations

I.431, I.604, G.704, G.706, G.811, G.821, G.823, O.9, O.121, O.171

(iii) Others

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