JT-I432.2
B-ISDN User-Network Interface Physical Layer Specification for 155 520 kbit/s and 622 080 kbit/s

1. Relations with international standards

This standard conforms to ITU-T Recommendation I.432.2, which was decided at the ITU-T SG13 meeting in February 1999.

2. Differences from international standards

The following items in I.432.2 recommendation are modified or not included in JT-I432.2.

(a) Modification of description about cell-based interface in sections 6.1.2.2 and 6.2.2.2
Reason: Application of cell-based physical layer is not planned for the present in Japan.

(b) Modification of description about electrical interface in section 6.1.4 and deletion of whole text of sections 6.1.4.1 to 6.1.4.6
Reason: Application of electrical interface is not planned for the present in Japan.

(c) Deletion of description about multimode fibers in section 6.1.5.2
Reason: Application of multimode fiber is not planned for the present in Japan.

(d) Modification of description about electrical interface in section 6.2.4
Reason: Application of electrical interface is not planned for the present in Japan.

(e) Modification of description about cell-based interface in section 7.1.2 and deletion of whole text of sections 7.1.2.1 and 7.1.2.2
Reason: Application of cell-based physical layer is not planned for the present in Japan.

(f) Deletion of description about B1 for regenerator section error monitoring across the UNI in section 7.2.1.3
Reason: B1 byte is not used at the B-UNI for the present in Japan.

(g) Modification of description about cell-based interface in section 7.2.2 and deletion of whole text of sections 7.2.2.1 to 7.2.2.8
Reason: Application of cell-based physical layer is not planned for the present in Japan.

(h) Modification of Table 7/I432.2 (primitives MPH-DIs issued when detecting FC1-FC4 in state F1 are changed to PH-DIs)
Reason: The original text seems to be wrong.

(i) Modification of description about cell-based interface in section 8.2 and deletion of whole text of sections 8.2.2 to 8.2.4
Reason: Application of cell-based physical layer is not planned for the present in Japan.

(j) Modification of description about power to the B-NT1 via the user network interface in section 9 and deletion of whole text of sections 9.1 to 9.4

Reason: The provision of power to the B-UNI via the B-UNI is not applied in Japan.

3. History of revised versions

Version	Date	Outline
1	April 23, 1997	Established due to abolition of JT-I432
2	April 20, 2000	Revised due to revision of the international recommendation

4. Others

(1) TTC standard JT-I432 (established on April 27, 1993) has been abolished and the contents have been divided into JT-I432.1 and JT-I432.2.

(2) Following issues are for further study.

(a) Application of sell-based interface at S_B reference point at 155 520 kbit/s (section 6.1.2.2)

(b) Applicability of the maximum STI values for microcoax cables (section 6.1.4.6)

(c) Other solutions for bit rate and interface symmetry of the UNI at 622 080 kbit/s (section 6.2.1)

(d) Application of sell-based interface at S_B reference point at 622 080 kbit/s (section 6.2.2.2)

(e) Feasibility of an electrical interface at 622 080 kbit/s (section 6.2.4)

(f) Application of sell-based interface at S_B reference point concerning transmission convergence sublayer (section 7.1.2)

(g) Use of the POH octets other than J1, B3, C2 and G1 at 155 520 kbit/s interface (section 7.2.1.1)

(h) Use of the POH octets other than J1, B3, C2, G1 and N1 at 622 080 kbit/s interface (section 7.2.1.2)

(i) Applicability of Multiplex Section AIS (MS-AIS) at the B-UNI (section 7.2.1.3)

(j) Need of J0 octet(section 7.2.1.3)

(k) Additional functions such as loopbacks (or their functional equivalent) or path layer communication channels (section 7.2.1.3.3)

(l) Use of octets K1 and K2 (bits 1-5) for automatic protection switching across the UNI (section 7.2.1.3.3)

(m) Application of sell-based interface at S_B reference point concerning transmission convergence sublayer (section 7.2.2)

(n) Maintenance state tables for the more general case where the transmission path is terminated between the B-TE and the B-ET (section 8.1.4)

(o) Application of cell-based interface concerning OAM functions (section 8.2)

(3) References

ITU-T recommendations: I.432.2, G.652 and G.826

TTC standards: JT-G703, JT-G707, JT-G783, JT-G825, JT-G957, JT-G958, JT-I361, JT-I432.1 and JT-I610

IEC: 825