JT-I610 B-ISDN Operation and Maintenance Principles and Functions

1.Relations with international standards

JT-I610 standard is based on ITU-T Recommendation I.610 approved at the ITU-T SG13 meeting held in March 1999. It is also based on Corrigendum 1 and Addendum 1 of ITU-T Recommendation I.610 approved at the ITU-T SG13 meeting held in March 2000.

2. Difference from international standards

The following items in I.610 recommendation are not included in JT-I610.

1) Whole text of the section 7.1.2 "Cell-based transmission systems"

Reason: Application of cell-based physical layer is not planned for the present in Japan.

2) Description related to cell-based option in the section 8.2.2.

Reason: Application of cell-based physical layer is not planned for the present in Japan.

3. History of revised versions

Version	Date	Outline
1	November 1994	Established
2	April 1996	Revised in line with the revision of international Rec. I.610
3	April 1999	Revised in line with the revision of international Rec. I.610
4	November 2000	Revised in line with addition of corrigendum and addendum in the corresponding international standard

4. Others

(1) Following issues are for further study.

(a) Operation and maintenance functions of the layers above the ATM layer (section 1)

(b) Additional OAM functions for testing, fault localization and performance measurement, and means to detect OAM procedure failures (section 9.2)

(c) A definition of AIS and LOC states that do not give consideration of the presence of the user cells (section 9.2)

(d) Functions except errored blocks and loss/miss-insertion of cells, and   solution to interference between OAM cell rate and UPC/NPC (sections 9.2.1.2 and 9.2.2.2)

(e) Detailed defect information and the coding of the defect type field of AIS/RDI defect management cell (section 10.2.1)

(f) The coding of the time stamp field for PM cells (sections 10.3.1 and 10.3.2)

(g) The parameter of the internal signal for the activation and deactivation procedure of the PM and CC (Annex B)

(h) How to handle the LB cell source ID field in case the CP does not support the source ID option (Annex C)

(2) References

TTC standards: JT-I356, JT-I361, JT-I371, JT-I432.1, JT-I432.2, JT-I432.4, JT-I630, JT-G702, JT-G703, JT-G707 and JT-G783

ITU-T recommendations: E.164, M.20, M.3010, M.3600, I.311, I.321, I.326, I.357, I.602, I.603, I.604, I.605, I.610, I.732, I.751, G.784, G.804, G.805 and G.832

(3) Structure of this standard

Each of this standard of versions 3 and after this is composed of the version 2 to which new chapters 2, 3 and 4 have been added.   Therefore the chapter numbers (equal to 2 and more than 2) in the version 2 have increased by 3 in the versions 3 and after this.

Corrigendum 1 and Addendum 1 of ITU-T Recommendation I.610 are described as Annexes a and b respectively in this standard.