JT-Q701
Message Transfer Part, Functional Description of the Signalling System

1. Relations with international standards

(1) This Standard is based on ITU-T Recommendation Q.701, Blue Book, issued in 1988

2. Summary of departures from ITU-T Recommendations

(1) No items prior to the ITU-T Recommendation are specified in this standard.

(2) The following items specified in the above ITU-T Recommendation are deleted in this standard:

     (a) Analog links for signalling data links
     (b) Signalling data links via satellite transmission paths

  The reasons for the deletion of the above items are as follows:
  On item (a), the digital transmission path is the most suitable signalling data link for maintaining high reliability of the data transmission, and the analog transmission path is not reqired for practical use to realize the signalling systems for interconnection.
  On item (b), signalling data links via satellite transmission path are not required for practical domestic use.

(3) The items listed below are specified in addition to the above ITU-T Recommendation:

     (a) On signalling messages, it is additionally specified that each signalling message always corresponds to one signal unit of meaning.
     (b) On signalling network components, it is additionally specified that one link group corresponds to one link set in the signalling system described by these standards.

  These additional specifications are introduced in order to clarify the TTC Standards and do not affect the inherent functions of the signalling system.

(4) The following is an optional item in the ITU-T Recommendation. But it is standardized in TTC for the reasons mentioned below:

     (a) On message length, one message contains a maximum of 279 octets (user information 272 octets).

  Reason: The ITU-T Recommendation allows 272 octets maximum for user information if required for certain national applications, TTC decided, however, that the maximum message length of one signal unit should be 279, including control information. This standard further establishes that segmentation and blocking are required in the user part if the message length is greater than 272 octets.

 (5) Any item described as a matter of national concern in the ITU-T Recommendation is not specified as TTC standard.