

ข้อกำหนดรายละเอียดและมาตรฐานทางเทคนิคสำหรับการเชื่อมต่อโครงข่าย โทรคมนาคม

1. Signaling Point Code

- 1.1 ITSC IV/A : 2-10564
- 1.2 ITSC IV/B : 2-10560
- 1.3 SSTP1 : 2-10565
- 1.4 SSTP2 : 2-10566
- 1.5 Tandem : 2-10562
- 1.6 MSC01NE : 2-10799
- 1.7 MSC01N : 2-10797
- 1.8 MSC02N : 2-10798
- 1.9 MSC01S : 2-10800
- 1.10 MSC02S : 2-10801
- 1.11 MSC01B : 2-10757
- 1.12 MSC02B : 2-10758
- 1.13 MSC03B : 2-10784
- 1.14 MSC01E : 2-10759
- 1.15 MSC01W : 2-10760

2. Switching to Switching

2.1 Signaling

2.1.1 ITU-T Signaling System No.7 National Standard

2.1.1.1 Message Transfer Part (MTP) according to ITU-T Q.701-Q.709

2.1.1.2 National ISDN User Part (ISUP) according to ITU-T Q.761-Q.764, Q.730. The CIC assignment shall be fulfilled by any of two methods (circuit designation method and time slot assignment method)

2.1.1.3 ITU-T Recommendation Q.780-785 for signaling test between two exchanges

2.1.2 ITU-T Signaling System R2 (Modified)

2.1.2.1 Digital Line Signaling based on ITU-T Recommendation Q.421

2.1.2.2 MFC Register Signaling

2.1.2.3 Signaling Sequences for traffic cases of the Modified ITU-T R2 Signaling System

2.2 ISUP Circuit Designation

- 2.2.1 Error Correction Method: Basic
- 2.2.2 Signaling Link Test Message: Applicable
- 2.2.3 Load Sharing between Link Set: Not Applicable
- 2.2.4 Signaling Mode: En Bloc or Overlap
- 2.2.5 Circuit Identification Code: Same as the Circuit No.
- 2.2.6 Circuit Selection Order: Higher SPC – Descending
Lower SPC – Ascending
- 2.2.7 Type of Circuit: Bothway
- 2.2.8 Dual Seizure Control: Higher SPC controls even CICs
Lower SPC controls odd CICs

Note: The call being processed by the control exchange will be completed and the received initial address message will be disregarded.

- 2.2.9 Reset Facilities: Circuit Reset (RSC)
Group Reset (GRS) (Rang 1-30)
- 2.2.10 Continuity Check: Not Applicable
- 2.2.11 User Part: National ISUP
- 2.2.12 Transmission Medium Requirement: TMR = 3 (3.1 kHz Audio)
TMR = 2 (64 kbps)
TMR = 1 (Speech)

3 Switching to Transmission

3.1 Digital Interface

- 3.1.1 Electrical characteristic as specified in ITU-T Recommendation G.703 Section 6 with 75 Ohms interface
- 3.1.2 Direct connection of 2.048 Mbps PCM bit stream in accordance with ITU-T Recommendation G.732

3.2 Network Synchronization

- 3.2.1 The reliability of clock according to ITU-T Recommendation G.811
- 3.2.2 Be capable of synchronizing in master-slave or master-master mode

4 Transmission to Transmission

4.1 Electrical Interface

- 4.1.1 2.048 Mbps according to ITU-T Recommendation G.703, 75 Ohms resistive
- 4.1.2 34.368 Mbps according to ITU-T Recommendation G.703, 75 Ohms resistive
- 4.1.3 44.736 Mbps according to ITU-T Recommendation G.703, 75 Ohms resistive

4.2 The STM-1 electrical interface: Be conformed to ITU-T Recommendation G.703, 75 Ohms resistive

4.3 The STM-1 Optical Interface

- 4.3.1 Be complied with ITU-T Recommendation G.957
- 4.3.2 Having Automatic Laser Shutdown according to ITU-T Recommendation G.644

4.4 Network Synchronization

- 4.4.1 Having one 2.048 Mbps synchronization input port and one 2.048 Mbps synchronization output port
- 4.4.2 The synchronization interface ports: Be conformed to ITU-T Recommendation G.703, 75 Ohms with standard BNC connection

5 Test Number

- 5.1 0019991234: ทดสอบการให้บริการโทรศัพท์ระหว่างประเทศระบบ IDD
- 5.2 0099991234: ทดสอบการให้บริการโทรศัพท์ระหว่างประเทศระบบ VoIP

6 Technical Service Commitments and Fault Repairs

- 6.1 Network Availability > 99.996 %
- 6.2 Meantime to Repair
 - 6.2.1 Transmission
 - Critical ภายใน 4 ชั่วโมง
 - Major ภายใน 13 ชั่วโมง
 - 6.2.2 Switching
 - Critical ภายใน 4 ชั่วโมง
 - Major ภายใน 30 วัน
 - Minor ภายใน 180 วัน

7 Technical Specification Standard

7.1 Blocking (Loss system):	1 %
7.2 NER (Network Efficiency Ratio)	> 90 %
7.3 Transmission Delay:	< 40 ms
7.4 All Established Rate:	> 90 %
7.5 Synchronization:	10^9
7.6 Traffic Discrepancy	< 1 %

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