

**Síťový plán signalizace  
Příloha 3**

**Technická specifikace MTP**

# 1 Základní ustanovení

- 1.1 Specifikace MTP vychází z ITU-T doporučení Q.701 (1993), Q.702 (1988), Q.703 až Q.706 (1993), Q.707 (1988) a Q. 708 (1993) modifikovaných normou ETS 300 008-1.
- 1.2 Seznam norem ČSN ETS a doporučení ITU-T je uveden v kapitole 2. V kapitole 3 je specifikován stupeň závaznosti plnění požadavků normy nebo doporučení uvedených v kapitole 2.
- 1.3 Všechny funkce a signály označené „national option“ nejsou zahrnuty do této technické specifikace MTP v souladu s normou ETS 300 008-1.
- 1.4 Standardní přenosová rychlost signalizačního datového spoje je 64 kbit/s.
- 1.5 V národní síti mezi operátory se používá hodnota parametru Network Indicator = 11 (přechodová síť). Pro přidělování SPC v síti NI = 11 se postupuje podle pravidel stanovených ČTÚ a vydaných v Telekomunikačním věstníku.  
Poznámka: SPC pro síť NI = 00 je přidělováno rovněž prostřednictvím ČTÚ, operátoři tedy nepoužívají postupy podle Q.708.
- 1.6 Problémy se vzájemnou kompatibilitou různých verzí MTP je popsána v kapitole 7 doporučení Q.701.
- 1.7 Jestliže síť nesplňuje některé povinné požadavky této specifikace, musí na to druhou síť před propojením upozornit a projednat způsob spolupráce, kterým se eliminují případné problémy.

## 2 Seznam základních norem a doporučení

| Oblast | Norma ETSI nebo doporučení ITU-T  | Název normy ETSI nebo doporučení ITU-T   | Poznámka |
|--------|---|--|----------|
| MTP    | ČSN ETS 300 008-1 ed.2 (87 7002)<br>Vydáno 97/12<br>idt ETS 300 008-1<br>January 1997 | Digitální síť integrovaných služeb (ISDN).<br>Systém signalizace č. 7. Část přenosu zpráv (MTP) pro podporu mezinárodních propojení. Část 1: Specifikace protokolu [Doporučení ITU-T Q.701 (1993), Q.702 (1988), Q.703 až 706 (1993), Q.707 (1998) a Q.708 (1993), upravená] | 1)       |
|        | Q.701 (03/93)   | Functional Description of the Message Transfer Part (MTP) of Signalling system No. 7   |          |
|        | Q.702 (1988)  | Signalling Data Link   | 2)       |
|        | Q.703 (1993)  | Signalling system No.7 - Signalling link   | 3)       |
|        | Q.704 (1993)  | Signalling system No. 7 – Signalling network functions and messages  | 3)       |
|        | Q.705 (03/93)   | Signalling system No. 7 – Signalling Network Structure   |          |
|        | Q.706 (03/93)   | Signalling System No. 7 – Message Transfer Part Signalling Performance   |          |
|        | Q.707 (1988)  | Testing and Maintenance  | 2)       |
|        | Q.708 (03/93)   | Numbering of International Signalling Point Codes  |          |

Pozn.: 1) Norma ČSN ETS převzata schválením k přímému používání

2) Výtah z modré knihy (1988) je uveden v doporučení ITU-T vydaném v roce 1993

3) Dřívější doporučení CCITT

## 3 Poznámky k normám a doporučením

### Všeobecně

Rozlišení požadované závaznosti plnění paragrafů norem nebo doporučení, tj. povinná, volitelná, je odvozeno z mezinárodní normy IS 9646 a z doporučení ITU-T X.290 a výše.

Jestliže je některý parametr nebo indikátor označen jako povinný, ne všechny kódy tohoto parametru nebo indikátoru musí být povinně plněny.

Závaznost volitelné služby, vlastnosti nebo funkce je založena na vzájemné dohodě operátorů.

Zkratky pro stanovení závaznosti požadavku:

- NA neaplikovatelná
- O volitelná - vlastnost může nebo nemusí být podporována, povinnou se stává ve chvíli, kdy to vyžaduje dohodnutá služba
- nerelevantní nebo název nebo popisný text.
- PPS povinná při poskytování dané služby

Vzhledem k tomu, že normy ČSN ETS byly přejaty schválením k přímému používání, jsou pro poznámky k technické části norem citovány normy ETS. V případě rozporů ve výkladu pojmů a požadavků platí originální text v anglickém jazyce.

| Paragraf normy<br>nebo doporučení | Název  | Závaznost               | Poznámka |
|-----------------------------------|--|-------------------------|----------|
| ETS 300 008-1                     | Integrated Services Digital Network (ISDN) ; Signalling System No. 7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification<br>[ ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q. 708 (1993), modified] |                         |          |
| Q.701                             | Functional Description of the Message Transfer Part (MTP) of Signalling system No. 7   | Povinné při použití SS7 |          |
| Q.701.1                           | Introduction   | -                       |          |
| Q.701.1.1                         | General  | PPS                     |          |
| Q.701.1.2                         | Objectives   | PPS                     |          |
| Q.701.1.3                         | General characteristics  | -                       |          |
| Q.701.1.3.1                       | Method of description  | PPS                     |          |
| Q.701.1.3.2                       | Primitives   | PPS                     |          |
| Q.701.1.3.3                       | Peer-to-peer communication   | PPS                     |          |
| Q.701.1.3.4                       | Contents of Recommendations Q.701 to Q.707-Series relating to the MTP  | PPS                     |          |
| Q.701.2                           | Signalling system structure  | -                       |          |
| Q.701.2.1                         | Basic functional division  | PPS                     |          |
| Q.701.2.2                         | Functional levels  | -                       |          |
| Q.701.2.2.1                       | General  | PPS                     |          |
| Q.701.2.2.2                       | Signalling data link functions (level 1)   | PPS                     |          |
| Q.701.2.2.3                       | Signalling link functions (level 2)  | PPS                     |          |
| Q.701.2.2.4                       | Signalling network functions (level 3)   | PPS                     |          |
| Q.701.2.2.5                       | User Part functions (level 4)  | PPS                     |          |
| Q.701.2.3                         | Signalling message   | PPS                     |          |
| Q.701.2.4                         | Functional interface   | PPS                     |          |
| Q.701.3                           | Message Transfer Part and the signalling network   | -                       |          |
| Q.701.3.1                         | General  | PPS                     |          |
| Q.701.3.1.1                       | Signalling network components  | PPS                     |          |
| Q.701.3.1.2                       | <b>Signalling modes</b>  | PPS                     |          |
| Q.701.3.1.3                       | Signalling point modes   | PPS                     |          |
| Q.701.3.1.4                       | Message labelling  | PPS                     |          |
| Q.701.3.2                         | Signalling message handling functions  | PPS                     |          |
| Q.701.3.2.1                       | Message routing  | PPS                     |          |
| Q.701.3.2.2                       | Message distribution   | PPS                     |          |
| Q.701.3.2.3                       | Message discrimination   | PPS                     |          |
| Q.701.3.3                         | Signalling network management functions  | PPS                     |          |
| Q.701.3.3.1                       | Signalling traffic management  | PPS                     |          |
| Q.701.3.3.2                       | Signalling link management   | PPS                     |          |

| Paragraf normy<br>nebo doporučení | Název   | Závaznost | Poznámka |
|-----------------------------------|---|-----------|----------|
| Q.701.3.3.3                       | Signalling route management                                       | PPS       |          |
| Q.701.3.4                         | Testing and maintenance functions                                 | PPS       |          |
| Q.701.3.5                         | Use of the signalling network                                     | -         |          |
| Q.701.3.5.1                       | Signalling network structure                                      | PPS       |          |
| Q.701.3.5.2                       | Provision of signalling facilities                                | PPS       |          |
| Q.701.3.5.3                       | Application of signalling network<br>functions                    | PPS       |          |
| Q.701.4                           | Message transfer capability                                       | -         |          |
| Q.701.4.1                         | General   | PPS       |          |
| Q.701.4.2                         | User location in system structure                                 | PPS       |          |
| Q.701.4.3                         | Message content   | PPS       |          |
| Q.701.4.3.1                       | Code transparency   | PPS       |          |
| Q.701.4.3.2                       | Service information   | PPS       |          |
| Q.701.4.3.3                       | Message label   | PPS       |          |
| Q.701.4.3.4                       | Message length  | PPS       |          |
| Q.701.4.4                         | User accessibility  | PPS       |          |
| Q.701.4.5                         | Transport service performance                                     | PPS       |          |
| Q.701.4.5.1                       | Message transfer delay  | PPS       |          |
| Q.701.4.5.2                       | Message transfer failures   | PPS       |          |
| Q.701.5                           | Differences from the Blue Book                                    | PPS       |          |
| Q.701.5.1                         | Processor outage  | PPS       |          |
| Q.701.5.2                         | Availability of adjacent signalling point                         | PPS       |          |
| Q.701.5.3                         | Handling of level 3 messages                                      | PPS       |          |
| Q.701.5.4                         | Transferred controlled messages                                   | PPS       |          |
| Q.701.5.5                         | Load balancing during changeback                                  | PPS       |          |
| Q.701.5.6                         | Time-controlled changeover procedure                              | PPS       |          |
| Q.701.5.7                         | Changeback  | PPS       |          |
| Q.701.5.8                         | MTP restart   | PPS       |          |
| Q.701.5.9                         | Signalling traffic flow control                                   | PPS       |          |
| Q.701.5.10                        | User part availability control                                    | PPS       |          |
| Q.701.5.11                        | Signalling route management                                       | PPS       |          |
| Q.701.6                           | Compatibility in the Message Transfer<br>Part                     | PPS       |          |
| Q.701.6.1                         | Unreasonable information  | PPS       |          |
| Q.701.6.1.1                       | Messages containing an unallocated SIO<br>value                   | PPS       |          |
| Q.701.6.1.2                       | Messages containing an unallocated<br>H0/H1 code                  | PPS       |          |
| Q.701.6.1.3                       | Messages containing an unallocated value<br>in a recognized field | PPS       |          |
| Q.701.6.2                         | Treatment of spare fields   | PPS       |          |
| Q.701.6.3                         | Lack of acknowledgement   | PPS       |          |
| Q.701.7                           | Interworking of yellow, red and blue MTP<br>implementations       | PPS       |          |
| Q.701.7.1                         | Yellow Book to Red Book interworking                              | PPS       |          |
| Q.701.7.1.1                       | Level 2 flow control  | PPS       |          |
| Q.701.7.1.2                       | Transfer restricted and Transfer controlled<br>procedures         | PPS       |          |
| Q.701.7.1.3                       | Transfer allowed/Transfer prohibited<br>acknowledgements          | PPS       |          |

| Paragraf normy<br>nebo doporučení | Název   | Závaznost | Poznámka |
|-----------------------------------|---|-----------|----------|
| Q.701.7.1.4                       | Management inhibiting procedure                           | PPS       |          |
| Q.701.7.2                         | Red Book to Blue Book interworking                        | PPS       |          |
| Q.701.7.2.1                       | Signalling Point Restart                                  | PPS       |          |
| Q.701.7.2.2                       | Q.703 and Q.704 timer values                              | PPS       |          |
| Q.701.7.2.3                       | User flow control   | PPS       |          |
| Q.701.7.2.4                       | Management inhibit test procedure                         | PPS       |          |
| Q.701.7.2.5                       | SIF length increase                                       | PPS       |          |
| Q.701.7.2.6                       | SIF length increase (National networks<br>option)         | PPS       |          |
| Q.701.7.2.7                       | Processor outage  | PPS       |          |
| Q.701.7.3                         | <b>Yellow Book to Blue Book<br/>interworking</b>          | PPS       |          |
| Q.701.7.4                         | Blue Book to the present version<br>interworking          | PPS       |          |
| Q.701.7.4.1                       | MTP restart   | PPS       |          |
| Q.701.7.4.2                       | Processor outage  | PPS       |          |
| Q.701.7.5                         | Red Book to the present version<br>interworking           | PPS       |          |
| Q.701.7.5.1                       | MTP restart   | PPS       |          |
| Q.701.8                           | Primitives and parameters of the Message<br>Transfer Part | PPS       |          |
| Q.701.8.1                         | Transfer  | PPS       |          |
| Q.701.8.2                         | Pause   | PPS       |          |
| Q.701.8.3                         | Resume  | PPS       |          |
| Q.701.8.4                         | Status  | PPS       |          |
| Q.701.8.5                         | Restart   | PPS       |          |

| Paragraf normy<br>nebo doporučení | Název  | Závaznost               | Poznámka |
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| Q.702                             | Signalling Data Link   | Povinné při použití SS7 |          |
| Q.702.1                           | General  | PPS                     |          |
| Q.702.2                           | Signalling bit rate  | -                       |          |
| Q.702.2.1                         | General  | PPS                     |          |
| Q.702.3                           | Error characteristics and availability   | PPS                     |          |
| Q.702.4                           | Interface specification points   | PPS                     |          |
| Q.702.5                           | Digital signalling data link   | -                       |          |
| Q.702.5.1                         | Signalling data link derived from the 2048-kbit/s digital path   | PPS                     |          |
| Q.702.5.2                         | Signalling data link derived from the 8448-kbit/s digital path   | PPS                     |          |
| Q.702.5.3                         | Signalling data link derived from the 1544-kbit/s digital path   | PPS                     |          |
| Q.702.5.4                         | Signalling data link established over a digital path made up by digital sections based on different digital hierarchies  | PPS                     |          |
| Q.702.5.5                         | Signalling data link established over data circuits  | PPS                     |          |
| Q.702.6                           | <b><u>Analogue signalling data link</u></b>  | -                       |          |
| Q.702.6.1                         | Signalling bit rate  | PPS                     |          |
| Q.702.6.2                         | Interface requirements   | PPS                     |          |



| Paragraf normy<br>nebo doporučení | Název  | Závaznost               | Poznámka |
|-----------------------------------|--|-------------------------|----------|
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| Q.703                             | Signalling system No.7 Signalling link   | Povinné při použití SS7 |          |
| Q.703.1                           | General  | -                       |          |
| Q.703.1.1                         | Introduction   | PPS                     |          |
| Q.703.1.2                         | Signal unit delimitation and alignment   | PPS                     |          |
| Q.703.1.3                         | Error detection  | PPS                     |          |
| Q.703.1.4                         | Error correction   | PPS                     |          |
| Q.703.1.5                         | Initial alignment  | PPS                     |          |
| Q.703.1.6                         | Signalling link error monitoring   | PPS                     |          |
| Q.703.1.7                         | Link state control functions   | PPS                     |          |
| Q.703.1.8                         | Flow control   | PPS                     |          |
| Q.703.2                           | Basic signal unit format   | -                       |          |
| Q.703.2.1                         | General  | PPS                     |          |
| Q.703.2.2                         | Signal unit format   | PPS                     |          |
| Q.703.2.3                         | Function and codes of the signal unit fields   | -                       |          |
| Q.703.2.3.1                       | General  | PPS                     |          |
| Q.703.2.3                         | Flag   | PPS                     |          |
| Q.703.2.3.3                       | Length indicator   | PPS                     |          |
| Q.703.2.3.4                       | Service information octet  | PPS                     |          |
| Q.703.2.3.5                       | Sequence numbering   | PPS                     |          |
| Q.703.2.3.6                       | Indicator bits   | PPS                     |          |
| Q.703.2.3.7                       | Check bits   | PPS                     |          |
| Q.703.2.3.8                       | Signalling information field   | PPS                     |          |
| Q.703.2.3.9                       | Status field   | PPS                     |          |
| Q.703.2.3.10                      | Spare fields   | PPS                     |          |
| Q.703.2.4                         | Order of bit transmission  | PPS                     |          |
| Q.703.3                           | <b>Signal unit delimitation</b>  | -                       |          |
| Q.703.3.1                         | Flags  | PPS                     |          |
| Q.703.3.2                         | Zero insertion and deletion  | PPS                     |          |
| Q.703.4                           | Acceptance procedure   | -                       |          |
| Q.703.4.1                         | Acceptance of alignment  | PPS                     |          |
| Q.703.4.2                         | Error detection  | PPS                     |          |
| Q.703.5                           | Basic error correction method  | -                       |          |
| Q.703.5.1                         | General  | PPS                     |          |
| Q.703.5.2                         | Acknowledgements (positive acknowledgement and negative acknowledgement)   | -                       |          |
| Q.703.5.2.1                       | Sequence numbering   | PPS                     |          |
| Q.703.5.2.2                       | Signal unit sequence control   | PPS                     |          |
| Q.703.5.2.3                       | Positive acknowledgement   | PPS                     |          |

| Paragraf normy<br>nebo doporučení | Název  | Závaznost | Poznámka |
|-----------------------------------|--|-----------|----------|
| Q.703.5.2.4                       | Negative acknowledgement                             | PPS       |          |
| Q.703.5.3                         | Retransmission                                       | -         |          |
| Q.703.5.3.1                       | Response to a positive acknowledgement               | PPS       |          |
| Q.703.5.3.2                       | Response to a negative acknowledgement               | PPS       |          |
| Q.703.5.3.3                       | Repetition of message signal units                   | PPS       |          |
| Q.703.6                           | Error correction by preventive cyclic retransmission | -         |          |
| Q.703.6.1                         | General  | PPS       |          |
| Q.703.6.2                         | Acknowledgement                                      | -         |          |
| Q.703.6.2.1                       | Sequence numbering                                   | PPS       |          |
| Q.703.6.2.2                       | Signal unit sequence control                         | PPS       |          |
| Q.703.6.2.3                       | Positive acknowledgement                             | PPS       |          |
| Q.703.6.3                         | Preventive cyclic retransmission                     | -         |          |
| Q.703.6.3.1                       | Response to a positive acknowledgement               | PPS       |          |
| Q.703.6.3.2                       | Preventive cyclic retransmission procedure           | PPS       |          |
| Q.703.6.4                         | Forced retransmission                                | PPS       |          |
| Q.703.6.4.1                       | Forced retransmission procedure                      | PPS       |          |
| Q.703.6.4.2                       | Limitation of the values $N_1$ and $N_2$             | PPS       |          |
| Q.703.7                           | Initial alignment procedure                          | -         |          |
| Q.703.7.1                         | General  | PPS       |          |
| Q.703.7.2                         | Initial alignment status indications                 | PPS       |          |
| Q.703.7.3                         | Initial alignment procedure                          | PPS       |          |
| Q.703.7.4                         | Proving periods                                      | PPS       |          |
| Q.703.8                           | Processor outgate                                    | PPS       |          |
| Q.703.9                           | Level 2 flow control                                 | -         |          |
| Q.703.9.1                         | General  | PPS       |          |
| Q.703.9.2                         | Detection of congestion                              | PPS       |          |
| Q.703.9.3                         | Procedure in the congestion situation                | PPS       |          |
| Q.703.9.4                         | Congestion abatement procedure                       | PPS       |          |
| Q.703.10                          | Signalling link error monitoring                     | -         |          |
| Q.703.10.1                        | General  | PPS       |          |
| Q.703.10.2                        | Signal unit error rate monitor                       | PPS       |          |
| Q.703.10.3                        | Alignment error rate monitor                         | PPS       |          |
| Q.703.11                          | Level 2 codes and priorities                         | -         |          |
| Q.703.11.1                        | Link status signal unit                              | PPS       |          |
| Q.703.11.2                        | Transmission priorities within level 2               | PPS       |          |
| Q.703.12                          | State transition diagrams, abbreviations and timers  | PPS       |          |
| Q.703.12.2                        | Abbreviations  | PPS       |          |

| Paragraf normy<br>nebo doporučení | Název  | Závaznost               | Poznámka |
|-----------------------------------|--|-------------------------|----------|
| ETS 300 008-1                     | Integrated Services Digital Network (ISDN) ; Signalling System No. 7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification<br>[ ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q. 708 (1993), modified] |                         |          |
| Q.704                             | Signalling system No. 7 – Signalling network functions and messages  | Povinné při použití SS7 |          |
| Q.704.1                           | Introduction   | -                       |          |
| Q.704.1.1                         | General characteristics of the signalling network functions  | PPS                     |          |
| Q.704.1.2                         | Signalling message handling  | PPS                     |          |
| Q.704.1.3                         | Signalling network management  | PPS                     |          |
| Q.704.2                           | Signalling message handling  | -                       |          |
| Q.704.2.1                         | General  | PPS                     |          |
| Q.704.2.2                         | Routing label  | PPS                     |          |
| Q.704.2.3                         | Message routing function   | PPS                     |          |
| Q.704.2.3.4                       | Handling of level 3 messages   | PPS                     |          |
| Q.704.2.3.5                       | Handling of messages under signalling link congestion  | PPS                     |          |
| Q.704.2.3.5.2                     | In national signalling network using multiple congestion priorities  | PPS                     |          |
| Q.704.2.4                         | Message discrimination and distribution functions  | PPS                     |          |
| Q.704.3                           | Signalling network management  | -                       |          |
| Q.704.3.1                         | General  | PPS                     |          |
| Q.704.3.2                         | Status of signalling links   | PPS                     |          |
| Q.704.3.2.2                       | Signalling link failure  | PPS                     |          |
| Q.704.3.2.3                       | Signalling link restoration  | PPS                     |          |
| Q.704.3.2.4                       | Signalling link deactivation   | PPS                     |          |
| Q.704.3.2.5                       | Signalling link activation   | PPS                     |          |
| Q.704.3.2.6                       | Signalling link blocking   | PPS                     |          |
| Q.704.3.2.7                       | Signalling link unblocking   | PPS                     |          |
| Q.704.3.2.8                       | Signalling link inhibiting   | PPS                     |          |
| Q.704.3.2.9                       | <b>Signalling link uninhibiting</b>  | PPS                     |          |
| Q.704.3.3                         | Procedures used in connection with link status changes   | PPS                     |          |
| Q.704.3.3.1                       | Signalling link failed   | PPS                     |          |
| Q.704.3.3.2                       | Signalling link restored   | PPS                     |          |
| Q.704.3.3.3                       | Signalling link deactivated  | PPS                     |          |
| Q.704.3.3.4                       | Signalling link activated  | PPS                     |          |
| Q.704.3.3.5                       | Signalling link blocked  | PPS                     |          |
| Q.704.3.3.6                       | Signalling link unblocked  | PPS                     |          |
| Q.704.3.3.7                       | Signalling link inhibited  | PPS                     |          |
| Q.704.3.3.8                       | Signalling link uninhibited  | PPS                     |          |
| Q.704.3.4                         | Status of signalling routes  | PPS                     |          |
| Q.704.3.4.1                       | Signalling route unavailability  | PPS                     |          |

| Paragraf normy<br>nebo doporučení | Název  | Závaznost | Poznámka |
|-----------------------------------|--|-----------|----------|
| Q.704.3.4.2                       | Signalling route availability  | PPS       |          |
| Q.704.3.4.3                       | Signalling route restricted  | PPS       |          |
| Q.704.3.5                         | Procedures used in connection with route status changes                | PPS       |          |
| Q.704.3.5.1                       | Signalling route unavailable   | PPS       |          |
| Q.704.3.5.2                       | Signalling route available   | PPS       |          |
| Q.704.3.5.3                       | Signalling route restricted  | PPS       |          |
| Q.704.3.6                         | Status of signalling points  | PPS       |          |
| Q.704.3.6.1                       | Signalling point unavailability  | PPS       |          |
| Q.704.3.6.2                       | Signalling point availability  | PPS       |          |
| Q.704.3.7                         | Procedures used in connection with point status changes                | -         |          |
| Q.704.3.7.1                       | Signalling point unavailable   | PPS       |          |
| Q.704.3.7.2                       | Signalling point available   | PPS       |          |
| Q.704.3.8                         | Signalling network congestion  | -         |          |
| Q.704.3.8.1                       | General  | PPS       |          |
| Q.704.3.8.2                       | Congestion status of signalling links                                  | PPS       |          |
| Q.704.3.8.3                       | Procedures used in connection with link congestion status changes      | PPS       |          |
| Q.704.3.8.4                       | Congestion status of signalling route sets                             | PPS       |          |
| Q.704.3.8.5                       | Procedures used in connection with route set congestion status changes | PPS       |          |
| Q.704.4                           | Signalling traffic management  | -         |          |
| Q.704.4.1                         | General  | PPS       |          |
| Q.704.4.2                         | Normal routing situation   | PPS       |          |
| Q.704.4.3                         | Signalling link unavailability   | PPS       |          |
| Q.704.4.4                         | Signalling link availability   | PPS       |          |
| Q.704.4.5                         | Signalling route unavailability  | PPS       |          |
| Q.704.4.6                         | Signalling route availability  | PPS       |          |
| Q.704.4.7                         | Signalling route restriction   | PPS       |          |
| Q.704.4.8                         | Signalling point availability  | PPS       |          |
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| Q.704.5.3                         | Changeover initiation and actions                                      | PPS       |          |
| Q.704.5.4                         | Buffer updating procedure  | PPS       |          |
| Q.704.5.5                         | Retrieval and diversion of traffic                                     | PPS       |          |
| Q.704.5.6                         | Emergency changeover procedures  | PPS       |          |
| Q.704.5.7                         | Procedures in abnormal conditions                                      | PPS       |          |
| Q.704.6                           | Changeback   | -         |          |
| Q.704.6.1                         | General  | PPS       |          |
| Q.704.6.2                         | Changeback initiation and actions                                      | PPS       |          |
| Q.704.6.3                         | Sequence control procedure   | PPS       |          |
| Q.704.6.4                         | Time-controlled diversion procedure                                    | PPS       |          |
| Q.704.6.5                         | Procedures in abnormal conditions                                      | PPS       |          |
| Q.704.7                           | Forced rerouting   | -         |          |
| Q.704.7.1                         | General  | PPS       |          |
| Q.704.7.2                         | Forced rerouting initiation and actions                                | PPS       |          |
| Q.704.8                           | Controlled rerouting   | -         |          |

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|-----------------------------------|--|-----------|---|
| Q.704.8.1                         | General  | PPS       |   |
| Q.704.8.2                         | Controlled rerouting initiation and actions  | PPS       |   |
| Q.704.9                           | MTP restart  | -         | Je přípustné použití postupu MTP restart podle předchozích verzí MTP. |
| Q.704.9.1                         | General  | PPS       |   |
| Q.704.9.2                         | <b>Actions in a signalling point whose MTP is restarting</b>                         | PPS       |   |
| Q.704.9.3                         | Actions in a signalling point X, adjacent to a signalling point Y whose MTP restarts | PPS       |   |
| Q.704.9.4                         | Short term isolations  | PPS       |   |
| Q.704.9.5                         | TRA messages and timer T19   | PPS       |   |
| Q.704.9.6                         | General rules  | PPS       |   |
| Q.704.9.7                         | Sequence diagrams  | PPS       |   |
| Q.704.9.7.1                       | SP with restarting MTP according to subclause 9.2                                    | PPS       |   |
| Q.704.9.7.2                       | Actions in SP X adjacent to SP Y whose MTP restarts according to subclause 9.3       | PPS       |   |
| Q.704.10                          | Management inhibiting  | -         |   |
| Q.704.10.1                        | General  | PPS       |   |
| Q.704.10.2                        | Inhibiting initiation and actions  | PPS       |   |
| Q.704.10.3                        | Uninhibiting initiation and actions  | PPS       |   |
| Q.704.10.3.1                      | Management-initiated uninhibiting  | PPS       |   |
| Q.704.10.3.2                      | Signalling routing control initiated uninhibiting                                    | PPS       |   |
| Q.704.10.4                        | Receipt of unexpected management inhibition messages                                 | PPS       |   |
| Q.704.10.5                        | Management inhibited link status and processor recovery                              | PPS       |   |
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| Q.704.11                          | Signalling traffic flow control  | -         |   |
| Q.704.11.1                        | General  | PPS       |   |
| Q.704.11.2                        | Flow control indications   | PPS       |   |
| Q.704.11.2.1                      | Signalling route set unavailability  | PPS       |   |
| Q.704.11.2.2                      | Signalling route set availability  | PPS       |   |
| Q.704.11.2.3                      | Signalling route set congestion (International signalling network)                   | PPS       |   |
| Q.704.11.2.4                      | Signalling route set congestion (National option with congestion priorities)         | O         | Nepodporované podle ETS 300 008-1                                     |
| Q.704.11.2.5                      | Signalling route set congestion (National option without congestion priorities)      | O         | Nepodporované podle ETS 300 008-1                                     |
| Q.704.11.2.6                      | Signalling point/signalling transfer point congestion                                | PPS       |   |
| Q.704.11.2.7                      | User Part availability control   | PPS       |   |
| Q.704.11.2.8                      | User part congestion   | PPS       |   |
| Q.704.12                          | Signalling link management   | -         |   |
| Q.704.12.1                        | General  | PPS       |   |

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|-----------------------------------|---|-----------|-----------------------------------|
| Q.704.12.2                        | Basic signalling link management procedures   | -         |                                   |
| Q.704.12.2.1                      | Signalling link activation  | PPS       |                                   |
| Q.704.12.2.2                      | Signalling link restoration   | PPS       |                                   |
| Q.704.12.2.3                      | Signalling link deactivation  | PPS       |                                   |
| Q.704.12.2.4                      | Link set activation   | PPS       |                                   |
| Q.704.12.2.4.1                    | Link set normal activation  | PPS       |                                   |
| Q.704.12.2.4.2                    | Link set emergency restart  | PPS       |                                   |
| Q.704.12.2.4.3                    | Time-out values   | PPS       |                                   |
| Q.704.12.3                        | Signalling link management procedures based on automatic allocation of signalling terminals                           | -         | Nepodporované podle ETS 300 008-1 |
| Q.704.12.3.1                      | Signalling link activation  | O         |                                   |
| Q.704.12.3.2                      | Signalling link restoration   | O         |                                   |
| Q.704.12.3.3                      | Signalling link deactivation  | O         |                                   |
| Q.704.12.3.4                      | Link set activation   | O         |                                   |
| Q.704.12.3.4.1                    | Link set normal activation  | O         |                                   |
| Q.704.12.3.4.2                    | Link set emergency restart  | O         |                                   |
| Q.704.12.3.4.3                    | Time-out values   | O         |                                   |
| Q.704.12.4                        | Signalling link management procedures based on automatic allocation of signalling data links and signalling terminals | -         | Nepodporované podle ETS 300 008-1 |
| Q.704.12.4.1                      | Signalling link activation  | O         |                                   |
| Q.704.12.4.2                      | Signalling link restoration   | O         |                                   |
| Q.704.12.4.3                      | Signalling link deactivation  | O         |                                   |
| Q.704.12.4.4                      | Link set activation   | O         |                                   |
| Q.704.12.5                        | Automatic allocation of signalling terminals  | O         | Nepodporované podle ETS 300 008-1 |
| Q.704.12.6                        | Automatic allocation of signalling data links   | O         | Nepodporované podle ETS 300 008-1 |
| Q.704.12.7                        | Different signalling link management procedures at the two ends of a link set   | PPS       |                                   |
| Q.704.13                          | Signalling route management   | -         |                                   |
| Q.704.13.1                        | General   | PPS       |                                   |
| Q.704.13.2                        | Transfer prohibited   | PPS       |                                   |
| Q.704.13.3                        | Transfer allowed  | PPS       |                                   |
| Q.704.13.4                        | Transfer restricted (National option)   | O         | Nepodporované podle ETS 300 008-1 |
| Q.704.13.5                        | Signalling-route-set-test   | PPS       |                                   |
| Q.704.13.6                        | Transfer-controlled (International network)   | PPS       |                                   |
| Q.704.13.7                        | Transfer-controlled (National option with congestion priorities)  | O         | Nepodporované podle ETS 300 008-1 |
| Q.704.13.8                        | Transfer-controlled (National option without congestion priorities)   | O         | Nepodporované podle ETS 300 008-1 |
| Q.704.13.9                        | Signalling-route-set-congestion-test (National Option)  | O         | Nepodporované podle ETS 300 008-1 |
| Q.704.14                          | Common characteristics of message signal unit formats   | -         |                                   |
| Q.704.14.1                        | General   | PPS       |                                   |
| Q.704.14.2                        | Service information octet   | PPS       |                                   |

| Paragraf normy<br>nebo doporučení | Název   | Závaznost | Poznámka                             |
|-----------------------------------|---|-----------|--------------------------------------|
| Q.704.14.2.1                      | Service indicator   | PPS       |                                      |
| Q.704.14.2.2                      | Sub-service field   | PPS       |                                      |
| Q.704.14.3                        | Label   | PPS       |                                      |
| Q.704.15                          | Formats and codes of signalling network<br>management messages    | -         |                                      |
| Q.704.15.1                        | General   | PPS       |                                      |
| Q.704.15.2                        | Label   | PPS       |                                      |
| Q.704.15.3                        | Heading code (H0)   | PPS       |                                      |
| Q.704.15.4                        | Changeover message  | PPS       |                                      |
| Q.704.15.5                        | Changeback message  | PPS       |                                      |
| Q.704.15.6                        | Emergency changeover message                                      | PPS       |                                      |
| Q.704.15.7                        | Transfer-prohibited message                                       | PPS       |                                      |
| Q.704.15.8                        | Transfer-allowed message  | PPS       |                                      |
| Q.704.15.9                        | Transfer-restricted message (national<br>option)                  | O         | Nepodporované<br>podle ETS 300 008-1 |
| Q.704.15.10                       | Signalling-route-set-test message                                 | PPS       |                                      |
| Q.704.15.11                       | Management inhibit message  | PPS       |                                      |
| Q.704.15.12                       | Traffic restart allowed message                                   | PPS       |                                      |
| Q.704.15.13                       | Signalling-data-link-connection-order<br>message                  | PPS       |                                      |
| Q.704.15.14                       | Signalling-data-link-connection-<br>acknowledgement message       | PPS       |                                      |
| Q.704.15.15                       | Transfer-controlled message                                       | PPS       |                                      |
| Q.704.15.16                       | Signalling-route-set-congestion-test<br>message (national option) | O         | Nepodporované<br>podle ETS 300 008-1 |
| Q.704.15.17                       | User Part unavailable message                                     | PPS       |                                      |
| Q.704.16                          | State transition diagrams, abbreviations<br>and timers            | -         |                                      |
| Q.704.16.1                        | General   | PPS       |                                      |
| Q.704.16.2                        | Drafting conventions  | PPS       |                                      |
| Q.704.16.2.5                      | Notations for national operations                                 | PPS       |                                      |
| Q.704.16.3                        | Signalling message handling                                       | PPS       |                                      |
| Q.704.16.4                        | Signalling traffic management                                     | PPS       |                                      |
| Q.704.16.5                        | Signalling link management  | PPS       |                                      |
| Q.704.16.6                        | Signalling route management                                       | PPS       |                                      |
| Q.704.16.7                        | Abbreviations used in Figures 23 onwards                          | PPS       |                                      |
| Q.704.16.8                        | Timers and timer values   | PPS       |                                      |

| Paragraf normy<br>nebo doporučení | Název  | Závaznost               | Poznámka |
|-----------------------------------|--|-------------------------|----------|
| ETS 300 008-1                     | Integrated Services Digital Network (ISDN) ; Signalling System No. 7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification<br>[ ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q. 708 (1993), modified] |                         |          |
| Q.705                             | Signalling system No. 7 – Signalling Network Structure   | Povinné při použití SS7 |          |
| Q.705.1                           | Introduction   | PPS                     |          |
| Q.705.2                           | Network components   | -                       |          |
| Q.705.2.1                         | Signalling links   | PPS                     |          |
| Q.705.2.2                         | Signalling points  | PPS                     |          |
| Q.705.3                           | Structural independence of international and national signalling networks  | PPS                     |          |
| Q.705.4                           | Considerations common to both international and national signalling networks   | -                       |          |
| Q.705.4.1                         | Availability of the network  | PPS                     |          |
| Q.705.4.2                         | Message transfer delay   | PPS                     |          |
| Q.705.4.3                         | Message sequence control   | PPS                     |          |
| Q.705.4.4                         | Number of signalling links used in load sharing  | PPS                     |          |
| Q.705.4.5                         | Satellite working  | PPS                     |          |
| Q.705.5                           | International signalling network   | -                       |          |
| Q.705.5.1                         | General  | PPS                     |          |
| Q.705.5.2                         | Number of signalling transfer points in signalling relations   | PPS                     |          |
| Q.705.5.3                         | Numbering of signalling points   | PPS                     |          |
| Q.705.5.4                         | Routing rules  | PPS                     |          |
| Q.705.5.4.2                       | Other routing rules  | -                       |          |
| Q.705.5.5                         | Structures   | -                       |          |
| Q.705.5.6                         | Procedures   | -                       |          |
| Q.705.6                           | Signalling network for cross-border traffic  | -                       |          |
| Q.705.6.1                         | General  | PPS                     |          |
| Q.705.6.2                         | Use of international hierarchical level  | PPS                     |          |
| Q.705.6.3                         | Integrated numbering of national signalling networks   | PPS                     |          |
| Q.705.7                           | Interworking of national signalling networks   | PPS                     |          |
| Q.705.8                           | Procedures prevent unauthorized use of an STP (optional)   | -                       |          |
| Q.705.8.1                         | General  | O                       |          |
| Q.705.8.2                         | Identifying unauthorized SS No. 7 messages   | O                       |          |
| Q.705.8.3                         | Treatment of unauthorized SS No. 7 messages  | O                       |          |
| Q.705.8.4                         | Measurements   | O                       |          |



| Paragraf normy<br>nebo doporučení | Název   | Závaznost | Poznámka |
|-----------------------------------|---|-----------|----------|
| Q.705.8.5                         | Notification to unauthorized user   | O         |          |
| Q.705.9                           | SS No. 7 Planning Tools   | O         |          |
| Annex A                           | Mesh signalling network examples  | -         |          |
| A.1                               | General   | O         |          |
| A.2                               | Basic network structures (example)  | O         |          |
| A.3                               | Routing   | O         |          |
| A.3.1                             | General   | O         |          |
| A.3.2                             | Routing in the absence of failures  | O         |          |
| A.3.3                             | Routing under failure conditions  | O         |          |
| A.3.3.1                           | Alternative routing information   | O         |          |
| A.3.3.2                           | Single link failure examples  | O         |          |
| A.3.3.3                           | Multiple link failure examples  | O         |          |
| A.3.3.4                           | Single signalling point failure examples  | O         |          |
| A.3.3.5                           | Multiple signalling transfer point failure examples   | O         |          |
| A.4                               | Actions relating to failure conditions  | O         |          |
| A.4.1                             | Example 1: Failure of a link between a signalling point and a signalling transfer point (e.g. link AB)  | O         |          |
| A.4.1.1                           | Failure of link AB  | O         |          |
| A.4.1.2                           | Restoration of link AB  | O         |          |
| A.4.2                             | Example 2: Failure of signalling transfer point D   | O         |          |
| A.4.2.1                           | Failure of signalling transfer point D  | O         |          |
| A.4.2.2                           | Recovery of signalling transfer point D   | O         |          |
| A.4.3                             | Example 3: Failure of link between a signalling point and a signalling transfer point, and of the link between that signalling transfer point and the same pair | O         |          |
| A.4.3.1                           | Failure of link DE  | O         |          |
| A.4.3.2                           | Failure of link DF in the presence of failure of link DE  | O         |          |
| A.4.3.3                           | Restoration of link FD in the presence of failure of link DE  | O         |          |
| A.4.3.4                           | Restoration of link DE  | O         |          |
| A.4.4                             | Example 4: Failure of links DF and EF   | O         |          |
| A.4.4.1                           | Failure of link DF  | O         |          |
| A.4.4.2                           | Failure of link EF in the presence of failure of link DF  | O         |          |
| A.4.4.3                           | Restoration of link EF in the presence of failure on link DF  | O         |          |
| A.4.4.4                           | Restoration of link DF  | O         |          |
| A.5                               | Explanatory note from the implementors forum for clarification of load sharing  | O         |          |

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|-----------------------------------|--|-------------------------|----------|
| ETS 300 008-1                     | Integrated Services Digital Network (ISDN) ; Signalling System No. 7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification<br>[ ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q. 708 (1993), modified] |                         |          |
| Q.706                             | Signalling System No. 7 – Message Transfer Part Signalling Performance   | Povinné při použití SS7 |          |
| Q.706.1                           | Basic parameters related to MTP signalling performance   | PPS                     |          |
| Q.706.1.1                         | Unavailability of a signalling route set   | PPS                     |          |
| Q.706.1.2                         | Unavoidable MTP malfunction  | PPS                     |          |
| Q.706.1.3                         | Message transfer times   | PPS                     |          |
| Q.706.1.4                         | Signalling traffic throughput capability   | -                       |          |
| Q.706.2                           | Signalling traffic characteristics   | -                       |          |
| Q.706.2.1                         | Labelling potential  | PPS                     |          |
| Q.706.2.2                         | Loading potential  | PPS                     |          |
| Q.706.2.2.1                       | Queueing delay   | PPS                     |          |
| Q.706.2.2.2                       | Security requirements  | PPS                     |          |
| Q.706.2.2.3                       | Capacity of sequence numbering   | PPS                     |          |
| Q.706.2.2.4                       | Signalling channels using lower bit rates  | PPS                     |          |
| Q.706.2.3                         | Structure of signalling traffic  | PPS                     |          |
| Q.706.3                           | Parameters related to transmission characteristics   | PPS                     |          |
| Q.706.3.1                         | Application of Signalling System No. 7 to 64 kbit/s links  | PPS                     |          |
| Q.706.3.2                         | Application of Signalling System No. 7 to links using lower bit rates  | -                       |          |
| Q.706.3.3                         | Signalling link delays over terrestrial and satellite links  | PPS                     |          |
| Q.706.4                           | Parameters of influence on signalling performance  | -                       |          |
| Q.706.4.1                         | Signalling network   | PPS                     |          |
| Q.706.4.1.1                       | International signalling network   | -                       |          |
| Q.706.4.1.2                       | National signalling network  | -                       |          |
| Q.706.4.2                         | Queueing delays  | PPS                     |          |
| Q.706.4.2.1                       | Assumptions for derivation of the of the formulas  | PPS                     |          |
| Q.706.4.2.2                       | Factors and parameters   | PPS                     |          |
| Q.706.4.2.3                       | Formulas   | PPS                     |          |
| Q.706.4.2.4                       | Examples   | PPS                     |          |
| Q.706.4.3                         | Message transfer times   | PPS                     |          |
| Q.706.4.3.1                       | Message transfer time components and functional reference points   | PPS                     |          |
| Q.706.4.3.2                       | Definitions  | PPS                     |          |
| Q.706.4.4                         | Error control  | PPS                     |          |
| Q.706.4.5                         | Security arrangements  | PPS                     |          |

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|--------------------------------|--|-----------|----------|
| Q.706.4.5.1                    | Types of security arrangements                                     | PPS       |          |
| Q.706.4.5.1.1                  | Security arrangements for the components of the signalling network | PPS       |          |
| Q.706.4.5.1.2                  | Security arrangements for signalling relations                     | PPS       |          |
| Q.706.4.5.2                    | Security requirements  | PPS       |          |
| Q.706.4.5.3                    | Time to initiate changeover  | PPS       |          |
| Q.706.4.5.4                    | Changeover performance times                                       | PPS       |          |
| Q.706.4.5.4.1                  | Failure response time  | PPS       |          |
| Q.706.4.5.4.2                  | Answer time to changeover order                                    | PPS       |          |
| Q.706.4.6                      | Failures   | -         |          |
| Q.706.4.6.1                    | Link failures  | PPS       |          |
| Q.706.4.6.2                    | Failures in signalling points                                      | -         |          |
| Q.706.4.7                      | Priorities   | PPS       |          |
| Q.706.5                        | Estimates for message transfer times                               | PPS       |          |
| Q.706.5.1                      | Estimate for $T_{cs}$  | PPS       |          |
| Q.706.5.2                      | Calculation for $T_{od}$   | PPS       |          |
| Q.706.5.2.1                    | Assumptions  | -         |          |
| Q.706.5.2.1.1                  | Disturbances   | PPS       |          |
| Q.706.5.2.1.2                  | Emission time  | PPS       |          |
| Q.706.5.2.1.3                  | Loop delay   | PPS       |          |
| Q.706.5.2.1.4                  | Link load  | PPS       |          |
| Q.706.5.2.1.5                  | Queueing delay   | PPS       |          |
| Q.706.5.2.1.6                  | 95% values   | PPS       |          |
| Q.706.5.2.1.7                  | Outgoing link delay $T_{od}$                                       | PPS       |          |
| Q.706.5.2.2                    | Results for $T_{od}$ with error rate of $10^{-5}$                  | PPS       |          |
| Q.706.5.2.3                    | Discussion of results with bit error rate of $10^{-5}$             | PPS       |          |
| Q.706.5.2.3.1                  | Terrestrial links  | PPS       |          |
| Q.706.5.2.3.2                  | Satellite links  | PPS       |          |
| Q.706.5.2.4                    | Results for $T_{od}$ with bit error rate of $10^{-7}$              | PPS       |          |
| Q.706.5.2.4.1                  | Terrestrial links  | PPS       |          |
| Q.706.5.2.4.2                  | Satellite links  | PPS       |          |
| Q.706.5.2.5                    | Conclusion   | PPS       |          |
| Q.706.5.3                      | Estimates for STP processor handling time $T_{ph}$                 | PPS       |          |
| Q.706.6                        | Performance under adverse conditions                               | -         |          |
| Q.706.6.1                      | Adverse conditions   | -         |          |
| Q.706.6.2                      | Influence of adverse conditions                                    | -         |          |
| Annex A                        | Computation of transmission delays                                 | PPS       |          |
| Annex B                        | Calculation of Outgoing Link Delay ( $T_{od}$ )                    | PPS       |          |
| B.1                            | Calculation of the kth moments of the MSU emission time            | PPS       |          |
| B.2                            | Approximative calculation of the 95% – Values of $T_{od}$          | PPS       |          |

| Paragraf normy<br>nebo doporučení | Název  | Závaznost               | Poznámka |
|-----------------------------------|--|-------------------------|----------|
| ETS 300 008-1                     | Integrated Services Digital Network (ISDN) ; Signalling System No. 7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification<br>[ ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q. 708 (1993), modified] |                         |          |
| Q.707                             | Testing and Maintenance  | Povinné při použití SS7 |          |
| Q.707.1                           | General  | PPS                     |          |
| Q.707.2                           | Testing  | -                       |          |
| Q.707.2.1                         | Signalling data link test  | PPS                     |          |
| Q.707.2.2                         | Signalling link test   | PPS                     |          |
| Q.707.3                           | Fault location   | PPS                     |          |
| Q.707.4                           | Signalling network monitoring  | PPS                     |          |
| Q.707.5                           | Formats and codes of signalling network testing and maintenance messages   | -                       |          |
| Q.707.5.1                         | General  | PPS                     |          |
| Q.707.5.2                         | Label  | PPS                     |          |
| Q.707.5.3                         | Heading code H0  | PPS                     |          |
| Q.707.5.4                         | Signalling link test messages  | PPS                     |          |
| Q.707.5.5                         | Time-out values and tolerances   | PPS                     |          |
| Q.707.6                           | State transition diagrams  | PPS                     |          |

| Paragraf normy<br>nebo doporučení | Název  | Závaznost | Poznámka                |
|-----------------------------------|--|-----------|-------------------------|
| ETS 300 008-1                     | Integrated Services Digital Network (ISDN) ; Signalling System No. 7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification<br>[ ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q. 708 (1993), modified] |           |                         |
| Q.708                             | Numbering of International Signalling Point Codes  | NA        | viz Základní ustanovení |
| Q. 708.1                          | Introduction   | NA        | viz Základní ustanovení |
| Q. 708.2                          | Numbering of International Signalling Points   | NA        | viz Základní ustanovení |
| Annex A                           | Lists of Signalling Area/Network Codes (SANC)  | NA        | viz Základní ustanovení |

| Paragraf normy<br>nebo doporučení | Název  | Závaznost | Poznámka |
|-----------------------------------|--|-----------|----------|
| ETS 300 008-1                     | Integrated Services Digital Network (ISDN) ; Signalling System No. 7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification<br>[ ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q. 708 (1993), modified] |           |          |
| Annex ZA<br>(normative)           | Specific requirements  | PPS       |          |
| ZA.1                              | Signalling link loading  | PPS       |          |
| ZA.1.1                            | Basic definition   | PPS       |          |
| ZA.1.2                            | Maximum signalling link load during normal operation   | PPS       |          |
| ZA.1.3                            | Minimum signalling link load handling capability   | PPS       |          |
| ZA.1.4                            | Message length influence   | PPS       |          |
| ZA.1.5                            | Graphic representation   | PPS       |          |
| Annex ZB<br>(informative)         | Bibliography   | -         |          |