JT-Q1228-b IN (intelligent network) Interface between Local Network and Service Providing Network Capability Set 2

1. Relations with international standards

This standard defines IN (intelligent network) interface between Local Network and Service Providing Network, based upon ITU-T Recommendations Q.1224,Q.1225,Q.1228 and Q.1290.

ITU-T Recommendations Q.1224,Q.1225 and Q.1228 have approved on ITU-T SG11 meeting held in September 1997 And Q.1290 has also approved on ITU-T SG11 meeting held in May 1998.

2. Summary of differences between ITU-T Recommendations and this standard

2.1 Optional items

None

2.2 National items

None

2.3 Others

(1) This standard indicates deletions from the above ITU-T Recommendations by the following rules.

(a) Sections which are defined in the ITU-T Recommendations, however, are not defined in this standard, are indicated by section numbers and section titles with the deletion symbol "#" in the table of contents and the text.

(b) Description in chapters which is defined in the ITU-T Recommendations, however, is not defined in this standard, is deleted without the deletion symbol "#".

(2) This standard defines only the necessary parts in order to standardize IN (intelligent network) interface between Local Network and Service Providing Network.

(3) This standard is consisted of the following two parts. One is the necessary part in order to standardize IN (intelligent network) interface between Local Network and Service Providing Network, which is extracted downstream from ITU-T IN Recommendations CS-2 including general concepts of IN. The other is the description of this TTC standard specific. TTC specific descriptions are indicated by the symbol "*" in the text.

(4) This standard uses figure number and table number provided by the above ITU-T Recommendations directly under the chapter number - section number of this standard.

The rules of providing figure number and table number are indicated below.

ITU-T Rec.	figure/ table numbering rule	number providing example	TTC Standard	figure/table numbering rule	number providing example
Q.1224	section number - sequential number in section	FIGURE 4-3/ Q.1224	Chapter 2	Chapter number - ITU-T providing number	FIGURE 2-4-3/JT Q1228-b* (ITU-T Q.1224)
Q.1225	sequential number	TABLE 2/ Q.1225	Chapter 3	Chapter number - section number - ITU-T providing number	TABLE 3-5-2/JT-Q-1228-b* (ITU-T Q.1225)
Q.1228	sequential number	FIGURE 3-10/ Q.1228	Chapter 4	Chapter number - section number - ITU-T providing number	TABLE 4-3-3/JT-Q1228-b (ITU-T Q.1228)
Q.1290	table/figure nothing		Chapter 5	table/figure nothing	

2.4 Comparison of sections between ITU-T Recommendations and this standard

The following tables show differences in sections between the ITU-T Recommendations and this standard.

Chapter 1 Introduction

TTC Standard	ITU-T Rec.	Difference from ITU-T Rec.
Sec. 1 General	----------	Add
Sec. 2 Service descriptions	----------	Add
Sec. 3 Basic concepts	----------	Add
Sec. 4 Definition of connecting function between signalling networks	----------	Add

Chapter 2 Distributed functional plane （corresponding to Q.1224）

TTC Standard	ITU-T Rec.	Difference from ITU-T Rec.
Sec.1 General	Sec.1 General	Partially delete/ partially modify
Sec.2 Scope of IN distributed functional plane for capability Set2	Sec.2 Scope of IN distributed functional plane for capability Set2	Partially delete/ partially modify
Sec.3 Distributed functional model for IN CS-2 between networks	Sec.3 Distributed functional model for IN CS-2	Partially delete/ partially modify
Sec.4 SSF/CCF model	Sec.4 SSF/CCF model	Partially delete/ partially modify
Sec.5 Specialized Resource (SRF) Function Model	Sec.5 Specialized Resource (SRF) Function Model	Partially delete/ partially modify
Sec.6 Service Control Function (SCF) Model	Sec.6 Service Control Function (SCF) Model	Partially delete/ partially modify
Sec.7 Service Data Function (SDF) Model	Sec.7 Service Data Function (SDF) Model	Delete
Sec.8 Call Unrelated Service Function(CUSF) Model	Sec.8 Call Unrelated Service Function(CUSF) Model	Delete
Sec.9 Service Management Function(SMF) Model	Sec.9 Service Management Function(SMF) Model	Delete
Sec.10 Mapping of the global Functional plane to the distributed	Sec.10 Mapping of the global Functional plane to the distributed	Delete

functional plane	functional plane	
----------	Sec.11 Information flow diagrams and distributed service logic	Delete
Sec.11 Mapping of service Functions to the functional architecture	----------	Add
Sec.12 Relationship between FEs	Sec.12 Relationship between FEs	Partially delete/ partially modify
Annex A Mobility Aspects	Annex A Mobility Aspects	Delete
Annex B Telecommunication Management Network(TMN) concepts	Annex B Telecommunication Management Network(TMN) concepts	Delete
Annex C IN SSF Q3 Management Information Model	Annex C IN SSF Q3 Management Information Model	Delete
Annex D IN Testing and Fault Management	Annex D IN Testing and Fault Management	Delete
Annex E SSF/SCF relationship scenarios	----------	Add
Annex F BCSM SDL Diagrams	----------	Add
Appendix Ⅰ Example/Application of IN SSF Q3Management Information Model	Appendix Ⅰ Example/Application of IN SSF Q3Management Information Model	Delete
Appendix Ⅱ Information flows and call models for terminal mobility	Appendix Ⅱ Information flows and call models for terminal mobility	Delete
AppendixⅢ Supplementary explanation about basic procedure of connection between signalling networks	----------	Add

Chapter 3　Physical plane（corresponding to Q.1225）

TTC Standard	ITU-T Rec.	Difference from ITU-T Rec.
Sec.1　General	Sec.1　General	Partially delete/ partially modify
Sec.2　Requirements and assumptions	Sec.2　Requirements and assumptions	Partially delete/ partially modify
Sec.3　Physical entities (PEs)	Sec.3　Physical entities (PEs)	Partially delete/ partially modify
Sec.4　Mapping requirement	Sec.4　Mapping requirements	
Sec.5　Mapping the distributed functional plane to the physical plane	Sec.5　Mapping the distributed functional plane to the physical plane	Partially delete/ partially modify

Chapter 4 Protocol for connection between signalling networks
(corresponding to Q.1228)

TTC Standard	ITU-T Rec.	Difference from ITU-T Rec.
Sec.1 Introduction	Sec.1 Introduction	Partially delete/ partially modify
Sec.2 General	Sec.2 General	Partially delete/ partially modify
Sec.3 Interface recommendation for telecommunication service	Sec.3 Interface recommendation for telecommunication service	Partially delete/ partially modify
Sec.4 Common IN CS-2 Types	Sec.4 Common IN CS-2 Types	Partially delete/ partially modify
Sec.5 SSF/SCF Interface	Sec.5 SSF/CCF-SCF Interface	Partially delete/ partially modify
Sec.6 SCF-SRF Interface	Sec.6 SCF-SRF Interface	Delete
Sec.7 SCF-SDF Interface	Sec.7 SCF-SDF Interface	Delete
Sec.8 SDF/SDF Interface	Sec.8 SDF/SDF Interface	Delete
Sec.9 SCF/SCF Interface	Sec.9 SCF/SCF Interface	Delete
Sec.10 SCF/CUSF Interface	Sec.10 SCF/CUSF Interface	Delete
Sec.11 SSF application entity procedures	Sec.11 SSF application entity procedures	Partially delete/ partially modify
Sec.12 SCF application entity procedures	Sec.12 SCF application entity procedures	Partially delete/ partially modify
Sec.13 SRF application entity procedures	Sec.13 SRF application entity procedures	Delete
Sec.14 SDF application entity procedures	Sec.14 SDF application entity procedures	Delete
Sec.15 CUSF application entity procedures	Sec.15 CUSF application entity procedures	Delete
Sec.16 Error procedures	Sec.16 Error procedures	Partially delete/ partially modify
Sec.17 Detailed Operation Procedures	Sec.17 Detailed Operation Procedures	Partially delete/ partially modify
Sec.18 Service assumed from Lower Layers	Sec.18 Service assumed from Lower Layers	Partially delete/ partially modify
Sec.19 IN Generic Interface	Sec.19 IN Generic Interface	Delete

Annex A INAP SDLs	Annex A INAP SDLs	Delete
Annex B Definition about Abort Reason	----------	Add
Annex C Assignment rule of Call Segment ID(Csid)	----------	Add
AnnexD TTC Specific Definition of Internal Structure of OCTET STRING	----------	Add
Appendix Ⅰ Expanded ASN.1	Appendix Ⅰ Expanded ASN.1	Delete
Appendix Ⅱ Data Modelling	Appendix Ⅱ Data Modelling	Delete
Appendix Ⅲ Examples of SPKM Algorithms	Appendix Ⅲ Examples of SPKM Algorithms	Delete
Appendix Ⅳ Realization method of message prioritization	----------	Add

Chapter 5 Glossary of terms used in the definition of intelligent networks (corresponding to Q.1290)

TTC Standard	ITU-T Rec.	Difference from ITU-T Rec.
Sec.1 General	Sec.1 General	Partially delete/ partially modify
Sec.2 Terms and definition	Sec.2 Terms and definition	Partially delete/ partially modify
Annex A ACRONYMS	Annex A ACRONYMS	Partially delete/ partially modify

Annex A

TTC Standard	ITU-T Rec.	Difference from ITU-T Rec.
Restart Notification Processing Application	----------	Add

3. The history of revised versions

Version	Date	Outline
1	April 28, 1998	Established
2	November 26,1998	- Addition of parameters etc., which are required in order to support Number Portability of logical numbers - The maximum length expansion of CalledNumber type - Correction of errors and modification toward appropriate descriptions
3	April 22,1999	- Addition of INAP operations and parameters to carrier interconnection charge billing system - Addition of non charge instruction function to a user - Addition of called IN information indication/non-indication instruction to the called party - Addition of called sub address instruction function - Correction of errors and modification toward appropriate description
4	November 25,1999	- Addition of INAP parameters to support Number Portability for Free Phone service - Extension of the number of degits for Assisting SSP IP Routing Address corresponding to the extension of the number of digits for Called Party Number on ISUP - Correction of errors and modification toward appropriate description
5	April 20,2000	- Addition of parameters to indicate whether the generation/override of called IN number is allowed or not allowed - Addition of carrier interconnection charge billing information to support Number Portability for Free Phone service - Correction of errors and modification toward appropriate description
6	November 27,2001	- Modifications for reference of coding for redirectReason parameter.

4. Others

(1) Reference standards and recommendations

TTC Standards : JT-Q711,JT-Q713,JT-Q714,
JT-Q762,JT-Q763,JT-Q771,JT-Q772,JT-Q773,JT-Q774
JT-Q931,JT-Q932
JT-Q1600

ITU-T Recommendations : E.164(1991)
I.130(1988)
Q.29(1988),
Q.71(1993),
Q.700(1993),Q710(1988),Q.715(1996),Q.775(1993)
Q.1201(1992),Q.1204(1993),Q.1205(1993),Q.1208(1997),
Q.1211(1993),Q.1214(1995),Q.1218(1995),Q.1221(1997)
Q.1400(1993)
X219(1988),X.229(1988),
X.680(1994),X.681(1994),X.682(1994),X.683(1994),
X.690(1994),X.880(1994)