JT-Q952-a Digital Interface between PBXs (supplementary services)

-Layer 3 Specifications of Call Offering Services-

<Remarks>

1. Relations with international standards

This standard describes, based on the draft recommendation Q.952 "Call Offering supplementary services" ("draft" is omitted in following texts) updated at CCITT SGXI Geneva meeting in October 1991, general service description, relating messages and information elements required at the minimum for providing call diversion services between PBXs applying TTC standard JT-Q931-a "Digital Interface between PBXs (Common Channel Signaling)". Other services included in CCITT recommendation Q.952 are for future study.

2. Summary of differences from international standards

(1) Followings are differences from CCITT recommendation Q.952.

This Standard	CCITT Rec.Q.952	Differences
1. Service description	2/5.1 Definition 2/5.2 Description 2/5.2.1 General description	Described as PBX-to-PBX services under reference to CCITT Rec. Q.952.
2. Specific terminology	2/5.2.2 Definitions	A minimum set of specific terminology is defined. Although terms such as "activating user", which are used at a user to network interface, are included in CCITT Rec.Q.952, none of those is included because they are out of scope. A private network number replaces an ISDN number.

This Standard	CCITT Rec.Q.952	Differences
No corresponding part	2/5.2.3 Symbols and abbreviations	Abbreviations for associating service names are shown in chapter 1 "Service Description". Those relating to a user to network interface are deleted because they are out of scope of this standard.
No corresponding part	2/5.2.4 State definitions	The states associated with the activation, deactivation and interrogation are deleted because they are out of scope in case of inter-PBX links.
No corresponding part	2/5.3 Operational requirements 2/5.3.1 Provision/ withdrawal 2/5.3.2 Requirements on the originating network side 2/5.3.3 Requirements on the destination network side	As the service itself is out of scope, subscription and network options are referred in Appendix I "Examples of signaling flows" as variations of call diversion services.
3. Relating messages and information elements	2/5.4 Coding requirements	Messages and information elements necessary for providing call diversion services between PBXs are described. The coding of the Redirection number, the Redirecting number and the Notification indicator is based on CCITT Rec.Q.952. The codepoint "diversion activated" of the Notification identifier is deleted because it is used across a terminal to PBX interface.

This Standard	CCITT Rec.Q.952	Differences
3. Relating messages and information elements (continued)	2/5.4 Coding requirements (continued)	The length of the Redirection number and the Redirection number is not specified in CCITT Rec.Q.952. However, they are specified to be 36 and 37 octets respectively as it is defined for the calling party number in TTC standard JT-Q931-a. The coding of Facility information elements for activation, deactivation and notification of diversion services which is described in CCITT Rec.Q.952 is deleted as it is out of scope between PBXs.
No corresponding Part	2/5.5 Signaling procedures at the coincident S and T reference point	As the service itself is out of scope, subscription and network options are referred in Appendix I "Examples of signaling flows" as variations of call diversion services. Contents regarding a user to network interface such as activation procedures of diversion services are deleted.
4. Interaction with other services	2/5.6 Interaction with other supplementary services	Interactions with the services specified in the TTC standards are described.
No corresponding part	2/5.7 Interactions with other networks	Deleted because of being out of scope.
No corresponding part	2/5.8 Signaling flows (Described in Annex A)	As the signaling flows are beyond the scope of this standard, examples of signaling flows are shown for information in Appendix I.

This Standard	CCITT Rec.Q.952	Differences
No corresponding part	2/5.9 Parameter values(timer)	The Network timer for the CFNR service is not specified because it is an option of the Redirecting PBX. The timers associated with the registration of diversion services are deleted because they are out of scope in case of inter-PBX links.
Annex 1 SDL/GR between PBXs	2/5.10 Dynamic description (SDLS)	SDL diagrams necessary between PBXs in addition to TTC standard JT-Q931-a are described.
Appendix I Example Sequences	Annex A Signaling flows	Examples of signaling flows are shown for a implementor to provide supplementary services between PBXs. Examples of signaling flows corresponding to the subscription and network options defined in CCITT Rec.Q.952 are described as variations of call diversion services.

3. History of revisions

Version	Date of issue	Contents of revision
1	April 1992	Initial issue

4. Others

(1) Referred recommendations and/or standards

TTC standards: JT-Q931-a

CCITT recommendations: Draft Q.952