Vodafone
Digital Subscriber Signalling System No. 1
Supplementary Service

Interface Specification

Version: 2.1
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Contents

Conventions

The statement of compliance is abbreviated as follows:

I = Implemented, the function is implemented according to the relevant ITU-T Recommendation, unless the "comment" field specifies a variation,
NU = Not Used, the function is not implemented,
NA = Not Applicable-- = Descriptive text or title in the recommendation, no comment necessary.

The deviation of ETSI standard to the ITU-T Recommendation are in Italics style.

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1 Scope

The implementation of the DSS1 Layer 3 in EWSD is based on the specification produced by ETSI and ITU-T (previously CCITT) to support the services and Supplementary Services of the memorandum of understanding (MOU).

Furthermore procedures have been added for the support of additional Supplementary Services within the national network (CCBS which is included on the basis of ETSI specification).

This interface specification may be changed at any time. The user of this interface specification has to check for the newest version available from Vodafone GmbH. This interface specification may be superseded in total or in part by the terms of a contract between the individual network user and Vodafone GmbH.

2 References

In the case of a conflict between specific requirements in this document with requirements in any of the directly or indirectly referenced documents, the specific requirements of this document are applicable.

2.1 Normative References

The publications listed hereafter form the basis for the DSS1 Supplementary Services implementation in EWSD.

Q.932	ITU-T Rec. Q.932 (03/1993) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) GENERIC PROCEDURES FOR THE CONTROL OF ISDN SUPPLEMENTARY SERVICES
Q.950	ITU-T Rec. Q.950 (03/1993) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 DESCRIPTION FOR SUPPLEMENTARY SERVICES
Q.951_1	ITU-T Rec. Q.951.1 (03/1992) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 DESCRIPTION FOR SUPPLEMENTARY SERVICES SECTION 1 – Direct-Dialling-In (DDI) SECTION 2 – Multiple Subscriber Number (MSN) SECTION 8 – Sub-addressing (SUB)
Q.951_3	ITU-T Rec. Q.951.3 (03/1993) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 DESCRIPTION FOR NUMBER IDENTIFICATION SUPPLEMENTARY SERVIIVES SECTION 3 – Calling Line Identification Presentation (CLIP) SECTION 4 – Calling Line Identification Restriction (CLIR) SECTION 5 – Connected Line Identification Presentation (COLP) SECTION 6 – Calling Line Identification Restriction (COLR)
Q.951_7	ITU-T Rec. Q.951.7 (06/1997) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 DESCRIPTION FOR SUPPLEMENTARY SERVICES SECTION 7 – Malicious Call Identification (MCID)
Q.952	ITU-T Rec. Q.952 (03/1993) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR NUMBER IDENTIFICATION DIVERSION SUPPLEMENTARY SERVICES SECTION 2 – Call Forwarding Busy (CFB) SECTION 3 – Call Forwarding No Reply (CFNR) SECTION 4 – Call Forwarding Unconditional (CFU) SECTION 5 – Call Deflection (CD)
Q.952_7	ITU-T Rec. Q.952.7 (06/1997) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR DIVERSION SUPPLEMENTARY SERVICES SECTION 7 – Explicit Call Transfer (ECT)
Q.953_1	ITU-T Rec. Q.953.1 (03/1992) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR CALL COMPLETION SUPPLEMENTARY SERVICES SECTION 1 – Call Waiting (CW)

Q.953_2	ITU-T Rec. Q.953.2 (10/1995) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR CALL COMPLETION SUPPLEMENTARY SERVICES SECTION 2 – Call Hold (HOLD)
Q.953_4	ITU-T Rec. Q.953.4 (03/1993) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR CALL COMPLETION SUPPLEMENTARY SERVICES SECTION 4 – Terminal Portability (TP)
Q.954_1	ITU-T Rec. Q.954.1 (10/1995) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR MULTIPARTY SUPPLEMENTARY SERVICES SECTION 1 – Conference Calling (CONF)
Q.954_2	ITU-T Rec. Q.954.2 (03/1993) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR MULTIPARTY SUPPLEMENTARY SERVICES SECTION 2 – Three-Party Service (3PTY)
Q.955_1	ITU-T Rec. Q.955.1 (03/1992) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR COMMUNITY OF INTEREST SUPPLEMENTARY SERVICES SECTION 1 – Closed User Group (CUG)
Q.956_2	ITU-T Rec. Q.956.2 (10/1995) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR CHARGING SUPPLEMENTARY SERVICES SECTION 2 – Advice Of Charge (AOC)
Q.957_1	ITU-T Rec. Q.957.1 (07/1996) DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 SERVICE DESCRIPTION FOR TRANSFER SUPPLEMENTARY SERVICES SECTION 1 – User to User Service (UUS)
300 052	ETSI Rec. prETS 300 052-X (10/1991) Integrated Services Digital Network (ISDN); Multiple Subscriber Number (MSN) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 055	ETSI Rec. prETS 300 055-X (10/1991) Integrated Services Digital Network (ISDN); Terminal Portability (TP) supplementary service;) Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 058	ETSI Rec. prETS 300 058-X (10/1991) Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 061	ETSI Rec. prETS 300 061-X (10/1991) Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

300 064	ETSI Rec. prETS 300 064-X (09/1996) Integrated Services Digital Network (ISDN) Direct Dialling In (DDI) supplementary service Digital Subscriber Signalling System No. one (DSS1) protocol Part 1: Protocol specification
300 092	ETSI Rec. prETS 300 092-X (11/1994) Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 093	ETSI Rec. prETS 300 093-X (03/1992) Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 097	ETSI Rec. prETS 300 097-X (11/1994) Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 098	ETSI Rec. prETS 300 098-X (05/1992) Integrated Services Digital Network (ISDN); Connected Line Identification Restriction (COLR) Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 122	ETSI Rec. prETS 300 122-X (03/1992) Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol Generic keypad protocol for the support of supplementary services Part 1: Protocol specification
300 130	ETSI Rec. prETS 300 130-X (05/1992) Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 138	ETSI Rec. prETS 300 138-X (05/1992) Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 141	ETSI Rec. prETS 300 141-X (05/1992) Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 182	ETSI Rec. prETS 300 182-X (04/1993) Integrated Services Digital Network (ISDN); Advice of Charge (AOC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 185	ETSI Rec. prETS 300 185-X (06/1995) Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

300 188	ETSI Rec. prETS 300 188-X (08/1993) Integrated Services Digital Network (ISDN); Three-Party (3PTY) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 195	ETSI Rec. prETS 300 195-X (02/1995) Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol Supplementary services interactions
300 196	ETSI Rec. prETS 300 196-X (08/1993) Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol Generic functional protocol for the support of supplementary services
300 207	ETSI Rec. prETS 300 207-X (12/1994) Integrated Services Digital Network (ISDN); Diversion supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 286	ETSI Rec. prETS 300 286-X (02/1996) Integrated Services Digital Network (ISDN); User-to-User supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 359	ETSI Rec. prETS 300 359-X (11/1995) Integrated Services Digital Network (ISDN); Completion of Calls to Busy Subscriber (CCBS) supplementary service Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification
300 369	ETSI Rec. prETS 300 369-X (05/1995) Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

2.2 Reference Acquisition

- European Telecommunications Standards Institute: http://www.etsi.org
- ITU Recommendations: http://www.itu.int

3 Definitions and Abbreviations

3.1 Definitions

The definitions in the referenced standards apply.

3.2 Abbreviations

The definitions in the referenced standards apply.

4 Tables

In order to give information about the implemented messages, parameters and procedures, each relevant paragraph of the ITU-T Rec. and ETSI Standard are listed thereafter in tabular form.

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.932.	DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) – GENERIC PROCEDURES FOR THE CONTROL OF ISDN SUPPLEMENTARY SERVICES	--	
Q.932.1	General	--	
Q.932.2	Overview of the generic protocols and of their scope	--	*Networks may support the keypad and the functional generic protocols for the control of supplementary services. The support of multiple generic protocols is a network option. The service provider shall inform users at subscription time of the supplementary services available and of the generic protocols supported on their access.*
Q.932.2.1	Three generic protocols	--	*The Featurekey management protocol is not supported.* Both the Keypad and the Functional generic protocols are supported.
Q.932.2.1.1	Stimulus protocols	-	
Q.932.2.1.1.1	Keypad protocol	I	
Q.932.2.1.1.2	Feature key management protocol	NU	
Q.932.2.1.1.3	Information Request procedures	I	
Q.932.2.1.2	Functional protocol	I	
Q.932.3	Co-existence of protocols supported by a network	I	*As a general rule, the functional protocol shall be used unless the network specifies the use of a stimulus protocol for the invocation of certain supplementary services. In general, the keypad protocol has only local significance while the functional protocol may have other than local significance.* *For a given call instance, the protocol applied at a local interface may be different from the one applied at a remote user's interface. For example, one of the generic protocols can be used at the requesting user's interface, while a functional protocol shall be applied at the remote user's interface unless a network chooses, as an option, to use the keypad protocol for supplementary service indication or notification in the network-to-user direction.* *Some networks may support only one of the generic protocols per user access for the invocation of supplementary services. Other networks may choose to support a single generic protocol for the control of supplementary services, depending on the user access interface type (e.g. keypad on the basic access, functional on the basic access and primary access). This shall be arranged at subscription time.* *Networks supporting multiple generic protocols per access in the user-to-network direction (i.e. for the supplementary service invocation) shall recognise the protocol option chosen by the user on the basis of the received message type or information element type. Networks supporting more than one generic protocol per access in the network-to-user direction (i.e. at the remote user interface) may choose to apply*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			a particular protocol depending on the supplementary services involved. Depending on the supplementary service involved either the Functional or the Keypad generic protocol applies. For the correlation between the supplementary service and the used generic protocol see "Exceptions on specific supplementary services": In general the Functional protocol applies, the use of the Keypad protocol for specific supplementary services has to be specified explicitly.
Q.932.4	Keypad protocol	--	*This functional protocol is based on ETSI ETS 300 122 standard.* *The keypad protocol is based on the use of the Keypad facility and Display information elements. The Keypad facility information element may be included in the SETUP and INFORMATION messages. The Display information element may be included in any message sent by the network to the user according to Q.932. It may be used in any state of a call and in association with a call for supplementary service invocation.*
Q.932.4.1	General	I	
Q.932.4.2	Messages used in the Keypad protocol	I	
Q.932.4.3	Coding of the Keypad facility information element	I	
Q.932.4.4	Elements of procedure	-	
Q.932.4.4.1	General	I	*In paragraph 1), a supplementary service request can be related to the registration, cancellation, activation, deactivation or interrogation of a supplementary service. This request may be independent of an active call to a remote user*
Q.932.4.5	Procedures at the invocation interface	-	
Q.932.4.5.1	User procedures	I	
Q.932.4.5.1.1	En-bloc sending of access codes	I	*In 4th hyphenated item); if a Sending complete information element is used in the call establishment phase then it shall always indicate completion of the called party number, as defined in §Q.931.4.5.26*
Q.932.4.5.1.2	Overlap sending of access codes	I	In item 2, the user shall transfer all the additional call information (contained within the Keypad facility information element) before the network determines that the called party number (contained within the Called party number information element) is complete
Q.932.4.5.2	Network procedures	-	
Q.932.4.5.2.1	Network responses to user requests	I	
Q.932.4.5.2.2	Network prompting and in-band tone/announcement control	I	*The note no longer applies.*
Q.932.4.5.2.3	Error conditions and treatment	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.932.4.5.2.3.1	Supplementary service being invoked during call establishment	I	
Q.932.4.5.2.3.2	Supplementary service being invoked from the active state or during the call clearing phase	I	
Q.932.4.6	Procedures at the remote interface	I	
Q.932.5	Feature key management protocol	I	
Q.932.5.1	Messages	I	
Q.932.5.2	Procedures	-	
Q.932.5.2.1	Assumptions and restrictions	I	
Q.932.5.2.2	Invocation of supplementary services	I	
Q.932.5.2.2.1	Determination of call reference in the INFORMATION message	I	
Q.932.5.2.3	Network responses	-	
Q.932.5.2.3.1	Normal responses	-	
Q.932.5.2.3.1.1	Return of a Feature indication	I	
Q.932.5.2.3.1.2	Prompting for further information	I	
Q.932.5.2.3.1.3	Implicit response	I	
Q.932.5.2.3.1.4	Return of Signal, Cause, or Display information elements	I	
Q.932.5.2.3.2	Responses during error conditions	I	
Q.932.5.2.4	General aspects	-	
Q.932.5.2.4.1	Use of Feature indication information elements independent of a feature request	I	
Q.932.5.2.4.2	Deactivation procedures	I	
Q.932.5.2.4.3	Clearing of a call	I	
Q.932.5.2.5	Error conditions	-	
Q.932.5.2.5.1	Invalid feature activation request	I	
Q.932.5.2.5.2	Invalid call reference	I	
Q.932.5.2.5.3	Sending of multiple feature activation requests	I	
Q.932.6	Functional protocol	-	*This functional protocol is based on ETSI ETS 300 196 standard.*
Q.932.6.1	General	-	
Q.932.6.1.1	Introduction	I	
Q.932.6.1.2	Scope of the procedures	I	
Q.932.6.1.3	Categories of procedures	I	Third sub- paragraph is modified as follows: The second category, called the

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			common information element approach, utilises the Facility information element and applies only to supplementary services that do not require synchronisation of resources between the user and the network.
Q.932.6.1.4	Supplementary service functions	I	
Q.932.6.2	Separate messages category	I	See statements for Call hold. The retrieve function is not supported in the network state N12 Disconnect indication
Q.932.6.2.1	Hold and Retrieve functions	I	T*hird sub- paragraph is modified as follows: The Hold function is used to release a B-channel from a connection. The call reference of the held call shall be retained for subsequent call actions.* *The Retrieve function is used to reconnect a B-channel to the connection.* *The Hold and Retrieve functions may be used in a symmetrical manner, i.e. the initiator of a hold request or a retrieve request may reside at either side of the interface. Furthermore, the initiating entity of the Hold function can be the responding entity of the Retrieve function, and vice versa.* *The invocation of the Hold or Retrieve function does not affect the existing call state.*
Q.932.6.2.1.1	Auxiliary states for Hold and Retrieve	I	*This paragraph is valuable for Hold and Retrieve functions.* *Following NOTE is added: The Hold and Retrieve functions do not support calls requiring more than one* *connection.* *Following text is added:* *If the call state enters the Idle call state or one of the call states not listed in sub paragraph Q.932.6.2.2.1 with the exception of the U12, N12 Disconnect Indication call state then:* – *for a call in the Hold Request or Retrieve Request auxiliary state, the entity shall stop the appropriate timer (i.e. T-HOLD or T-RETRIEVE) and enter the Idle auxiliary state;* – *for a call in the Hold Indication, Retrieve Indication or Call Held auxiliary state, the entity shall enter the Idle auxiliary state.* – *If the call enters the U12, N12 Disconnect Indication call state then:* – *for a call in the Hold Request auxiliary state, the entity shall stop the appropriate timer (i.e. T-HOLD) and enter the Idle auxiliary state;* – *for a call in the Hold Indication auxiliary state, the entity shall enter the Idle auxiliary state; for a call in the Call Held or Retrieve Request or Retrieve Indication auxiliary state, no change in auxiliary state shall occur.*
Q.932.6.2.1.2	An example of dimensioned state space	I	
Q.932.6.2.2	Hold procedures	I	If both sides of an interface have requested the Hold function, a message collision pertaining to a given call reference may occur. In this case priority shall be given to

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			the network initiated Hold function according to the procedure of *§Q.931.6.2.2.1*.
Q.932.6.2.2.1	Normal operation, initiating side	I	*The first sentence is modified as follows: The Hold function shall be initiated by sending a HOLD message containing the call reference of the call to be put on hold to the responding entity.*
Q.932.6.2.2.2	Normal operation, receiving side	I	*The first sentence is modified as follows:* *On receipt of a HOLD message:* – *in the Idle auxiliary state and one of the call states specified in §Q.932.7.2.1.1, the responding entity shall enter the Hold Indication auxiliary state and determine whether the Hold function is permitted;* – *in the Hold Request auxiliary state for the user, the responding entity shall stop timer T-HOLD, enter the Hold Indication auxiliary state and determine whether the Hold function is permitted;* – *in the Hold Request auxiliary state for the network, the responding entity shall ignore the received HOLD message and remain in the Hold Request auxiliary state.*
Q.932.6.2.2.3	Call Held auxiliary state	I	
Q.932.6.2.2.4	Exceptional procedures	I	*The paragraph is modified as follows:* *If the HOLD message is received in an auxiliary state other than Idle and Hold Request, then the receiving entity shall send a HOLD REJECT message with cause #101 "message not compatible with call state" to the initiating entity and remain in the same auxiliary state it was in prior to the reception of the HOLD message.* *If the HOLD message is received in a call state not listed in sub paragraph §Q.931.6.2.2.1, except for the call states U12, N12 Disconnect Indication, and U19, N19 Release Request, then the responding entity shall send a HOLD REJECT message with cause #101 "message not compatible with call state" to the initiating entity and remain in the Idle auxiliary state.* *If the HOLD message is received for a call in the process of being cleared which is in the call states U12, N12 Disconnect Indication or U19, N19 Release Request, the responding entity shall ignore the request and remain in the Idle auxiliary state.* *If the Hold function is not permitted, then the responding entity shall send a HOLD REJECT message containing an appropriate cause to the initiating entity and remain in the Idle auxiliary state. The cause value shall be specified in the appropriate supplementary service .*
Q.932.6.2.3	Retrieve procedures	I	*The following paragraph is added:* *If both sides of an interface have implemented the Retrieve function as both initiating and responding entity, a message collision pertaining to a given call reference may occur. In this case priority shall be given to the network initiated Retrieve function according to the procedure of §Q.931.6.2.2.2.* *Please also refer to comment in §q.931.6.2.5.*
Q.932.6.2.3.1	Normal operation, initiating side	I	*The paragraph is modified as follows:*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			The Retrieve function shall be initiated by sending a RETRIEVE message containing the call reference of the held call to the responding entity. *The RETRIEVE message shall only be sent in the Call Held auxiliary state.* *The two following paragraphs are added:* *The Retrieve function shall provide channel selection procedures according to §Q.931.5.1.2 (if the RETRIEVE message is sent by the user) or according to §Q.931.5.2.3.2 (if the RETRIEVE message is sent by the network), using the Channel identification information element in the RETRIEVE message. If the RETRIEVE message is sent by the network, the network shall not use the codepoint "no B-channel available" in the Channel identification information element.* *If the initiating entity indicated "Channel is indicated, no acceptable alternative" or "Channel is indicated, any alternative acceptable" in the RETRIEVE message then on receipt of a RETRIEVE ACKNOWLEDGE message without a Channel identification information element, the initiating entity shall stop timer T-RETRIEVE, connect to the selected B-channel if appropriate for this call state under normal operation, and enter the Idle auxiliary state.*
Q.932.6.2.3.2	Normal operation, receiving side	I	*The paragraph is modified as follows:* *On receipt of a RETRIEVE message:* – *in the Call Held auxiliary state, the responding entity shall complete B-channel selection procedures according to the procedures of §Q.931.5.1.2 (if the RETRIEVE message is received by the network) or according to §Q.931.5.2.3.2 (if the RETRIEVE message is received by the user), enter the Retrieve Indication auxiliary state and determine whether the Retrieve function is permitted;* – *in the Retrieve Request auxiliary state, the user shall stop timer T-RETRIEVE, release the B-channel if one has been selected, complete B-channel selection procedures according to the procedures of §Q.931.5.2.3.2, enter the Retrieve Indication auxiliary state and determine whether the Retrieve function is permitted;* – *in the Retrieve Request auxiliary state, the network shall ignore the received RETRIEVE message and remain in the Retrieve Request auxiliary state.* *Determination of whether the Retrieve function is permitted is supplementary service dependent and shall be specified in the appropriate supplementary service.* *If the Retrieve function is permitted the responding entity shall:* – *if in the Active call state, connect to the selected B-channel and if not in the Active call state, optionally connect to the selected B-channel; and,* – *send a RETRIEVE ACKNOWLEDGE message to the initiator;* – *if the responding entity selected the B-channel, then the RETRIEVE ACKNOWLEDGE message shall indicate the selected B-channel to be used as "Channel is indicated, no acceptable alternative" in a Channel identification information element; and,*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			NOTE: If the responding entity accepts the B-channel indicated in the RETRIEVE message, then the responding entity need not include a Channel identification information element *in the RETRIEVE ACKNOWLEDGE message.* – *enter the Idle auxiliary state.*
Q.932.6.2.3.3	Exceptional procedures	I	*Following paragraph are added:* *At expiration of timer T-RETRIEVE, the initiating entity shall release the B-channel if applicable, and enter the Call Held auxiliary state.* *If the RETRIEVE message is received in the Call Held auxiliary state and other than the call states as listed in Q.931.6.2.2.1 and in addition call state U12, N12 Disconnect Indication, then the responding entity shall respond with a RETRIEVE REJECT message containing cause #101 "message not compatible with call state" and remain in the Call Held auxiliary state.* *If the Retrieve function is not permitted then the responding entity shall send a RETRIEVE REJECT message containing an appropriate cause to the initiating entity and move to the Call Held auxiliary state. The cause value shall be specified in the appropriate supplementary service*
Q.932.6.2.4	Collision of messages	I	
Q.932.6.2.5	Parameter values (Timers)	I	*At expiration of T-Hold Timer, the Hold function returns to Idle auxiliary state.* *At expiration of T-Retrieve Timer, the Hold function returns to Call Held auxiliary state.*
Q.932.6.2.6	Clearing of a held call	I	
Q.932.6.3	Common information element category	I	This paragraph is implemented based on ETS 300 196 §8
ETS 300 196.8	Control of supplementary services using the common information element approach	I	
ETS 300 196.8.1	General	I	
ETS 300 196.8.1.1	Introduction	I	
ETS 300 196.8.1.2	Scope of the procedures	I	
ETS 300 196.8.2	Application of operations	I	
ETS 300 196.8.2.1	Definitions	I	
ETS 300 196.8.2.2	Procedures for operations	I	
ETS 300 196.8.2.2.1	Invocation	I	
ETS 300 196.8.2.2.2	Return result	I	
ETS 300 196.8.2.2.3	Return error	I	
ETS 300 196.8.2.2.4	Reject	I	
ETS 300 196.8.2.2.5	Formal definition of Data Types	I	
ETS 300 196.8.3	Transport of components	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 196.8.3.1	Bearer-related transport	I	
ETS 300 196.8.3.1.1	Point-to-point transport mechanism	I	
ETS 300 196.8.3.1.1.1	Normal operation	I	
ETS 300 196.8.3.1.1.2	Exceptional procedures	I	If a called user in a point-to-multipoint configuration sends a DISCONNECT message including a component which is not related to the UUS supplementary service, this component will be ignored by the network. Reason: Procedures for this scenario are only defined for UUS.
ETS 300 196.8.3.1.2	Broadcast transport mechanism	I	
ETS 300 196.8.3.1.2.1	Normal operation	I	
ETS 300 196.8.3.1.2.2	Exceptional procedures	I	
ETS 300 196.8.3.2	Bearer-independent transport	I	
ETS 300 196.8.3.2.1	Point-to-point transport mechanism (connection-oriented)	I	
ETS 300 196.8.3.2.1.1	Connection establishment	I	
ETS 300 196.8.3.2.1.2	Data transfer phase	I	
ETS 300 196.8.3.2.1.3	Connection release	I	
ETS 300 196.8.3.2.2	Point-to-point transport mechanism (connectionless)	I	
ETS 300 196.8.3.2.2.1	Normal operation	I	
ETS 300 196.8.3.2.2.2	Exceptional procedures	I	
ETS 300 196.8.3.2.3	Broadcast transport mechanism (connection-oriented)	I	
ETS 300 196.8.3.2.4	Broadcast transport mechanism (connectionless)	I	
ETS 300 196.8.3.2.4.1	Normal operation	I	
ETS 300 196.8.3.2.4.2	Exceptional procedures	I	
ETS 300 196.8.4	Error procedures	I	
ETS 300 196.8.4.1	Component error handling	I	
ETS 300 196.8.4.2	Error handling of mistyped data values	I	
ETS 300 196.8.5	Response to multiple supplementary service invocations	I	
Q.932.6.4	Network side channel reservation function	I	*The second sentence is modified as follows: The user shall be identified by the CEI. The following sentence is added: Calls requiring packet-mode connections shall be treated as active calls for a given CEI.*
Q.932.6.4.1	Implicit reservation	I	
Q.932.6.4.1.1	Reservation creation	I	*In Note1, the following point is added: Where a point-to-point configuration is known to exist: the Call Received (N7), Connect Request (N8), Incoming Call Proceeding (N9) and Overlap Receiving call states (N25); and,*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.932.6.4.1.2	Reservation use	I	*The following point is added: Where a point-to-point configuration is known to exist, the receipt of a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message from the user in response to a sent SETUP message.*
Q.932.6.4.1.3	Reservation cancellation	I	
Q.932.6.4.2	Explicit reservation	NU	Explicit channel reservation is not supported.
Q.932.6.4.2.1	Explicit reservation control	NU	
Q.932.6.4.2.2	Explicit reservation management	NU	
Q.932.6.4.2.3	Explicit reservation cancellation	NU	
Q.932.6.4.2.4	Formal definition	NU	
Q.932.6.4.2.5	Effect of reservation on channel selection for a new call	NU	
Q.932.6.4.2.6	Interaction between implicit and explicit network side channel reservation functions on the same CEI	NU	
Q.932.6.4.3	Effect of reservation on channel selection for a new call	I	
ETS 300 196.10.2	Generic procedures for supplementary service management	I	
ETS 300 196.10.2.1	*Introduction*	I	
ETS 300 196.10.2.2	*Activation*	I	
ETS 300 196.10.2.2.1	*Normal operation*	I	
ETS 300 196.10.2.2.2	*Activation exceptional procedures*	I	
ETS 300 196.10.2.3	*Deactivation*	I	
ETS 300 196.10.2.3.1	*Normal operation*	I	
ETS 300 196.10.2.3.2	*Deactivation exceptional procedures*	I	
ETS 300 196.10.2.4	*Interrogation*	I	
ETS 300 196.10.2.4.1	*Normal operation*	I	
ETS 300 196.10.2.4.2	*Interrogation exceptional procedures*	I	
ETS 300 196.10.2.5	*Status notification*	I	
ETS 300 196.10.2.5.1	*Normal operation*	I	
ETS 300 196.10.2.5.2	*Exceptional procedures*	I	
ETS 300 196.10.2.6	*State definitions*	I	
ETS 300 196.10.2.7	*Parameter values (timers)*	I	
ETS 300 196.10.3	*Generic status request procedure*	I	
ETS 300 196.10.3.1	*Introduction*	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 196.10.3.2	*Normal operation*	I	
ETS 300 196.10.3.3	*Exceptional procedures*	I	
ETS 300 196.10.3.4	*Parameter values (timers)*	I	
Q.932.7	Message functional definition and content	I	
Q.932.7.1	Messages for supplementary service control	I	The length of Call Reference information element in EWSD is 2-3. The length of Display information element in EWSD is 2-34.
Q.932.7.1.1	FACILITY	I	*Note 3 and Note 4 are deleted.*
Q.932.7.1.2	HOLD	I	*Note 2 is deleted.*
Q.932.7.1.3	HOLD ACKNOWLEDGE	I	*Note 2 is deleted.*
Q.932.7.1.4	HOLD REJECT	I	*Note 2 is deleted.*
Q.932.7.1.5	REGISTER	I	*Not used in this Q.931.7.1*
Q.932.7.1.6	RETRIEVE	I	*The NOTE 1 is modified as follows: Mandatory in the network to user direction. Optional in the user to network direction except when the user wants to indicate the channel. If not included, its absence is interpreted as any channel acceptable.* *Note 3 is deleted.*
Q.932.7.1.7	RETRIEVE ACKNOWLEDGE	I	*Note 3 is deleted.*
Q.932.7.1.8	RETRIEVE REJECT	I	*Note 2 is deleted.*
ETS 300 196.11.1.2	*Messages for bearer-independent supplementary service control*	--	
ETS 300 196.11.1.2.1	*FACILITY*	I	
ETS 300 196.11.1.2.2	*REGISTER*	I	
ETS 300 196.11.1.2.3	*RELEASE*	I	
ETS 300 196.11.1.2.4	*RELEASE COMPLETE*	I	
ETS 300 196.11.1.2.5	*STATUS*	I	
ETS 300 196.11.1.2.6	*STATUS ENQUIRY*	I	
ETS 300 196.11.1.3	*Messages used with the dummy call reference*	--	
ETS 300 196.11.1.3.1	*FACILITY*	I	
ETS 300 196.11.1.3.2	*NOTIFY*	I	
Q.932.8	General message format and information element coding	--	
Q.932.8.1	Message type	I	
Q.932.8.2	Other information elements	I	*The Note 2 is modified as follows: The maximum length of the Facility and Notification indicator information elements is application dependent consistent with the maximum length of the message and not exceeding 255 octets.* *The Note 4 is replaced by Note 2.* *The Information element „Information request“, „Feature activation“, „Feature*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			indication", „Service profile identification", and „Endpoint identifier" are not taken into account.
Q.932.8.2.1	Call state	I	*The Call state information element shall be coded as shown in figure 4.13/Q.931 and table 4-7/Q.931. Table 8-3/Q.932 contains an additional codepoint required for use within supplementary service control.*
Q.932.8.2.2	Endpoint identifier	NU	
Q.932.8.2.3	Facility	I	*Following Note is added to Figure8-2/Q.932: One or more components may be included depending on specific service requirements. Multiple components may be sent in one Facility information element or in more than one (individual) Facility information elements. It is a sender's choice to use either one or several Facility information elements taking into account the maximum length of the Facility information element.*
ETS 300 196 .11.2.2.1.1	*Treatment of existing information elements as parameters*		
Q.932.8.2.3.1	Remote Operations Protocol	I	
Q.932.8.2.3.1.1	Component (octets 4, etc.)	I	
Q.932.8.2.3.1.2	Invoke identifier tags	I	
Q.932.8.2.3.1.3	Treatment of existing Q.931 information elements as parameters	I	
Q.932.8.2.4	Extended facility information element	I	*This paragraph is modified as follows: The Extended facility information element serves the same purposes as the Facility information element. It does however allow the inclusion of components which would be too long to be included in the Facility information element. The Extended facility information element can be used in any message that can contain a Facility information as a replacement for Facility information elements, or used together with Facility information elements.* *The Extended facility information shall only be used to convey a component when that component cannot be included in a Facility information element without other components.* *NOTE: Application of the Extended facility information element in implementations where maximum I-frame length is set to the default value specified in Q.921 (e.g.260 octets) will usually require the support of the message segmentation procedures as specified in Annex N of Q.931* *Only the coding of the information element identifier and the length of the Extended facility information element contents are different from the Facility information element. Figure 8-10/Q.932 shows the structure of the Facility information element.* *Following Note is added to Figure8-10/Q.932: One or more components may be included depending on specific service requirements. Multiple components may be sent in one Extended facility information element or in more than one (individual) Extended facility information elements. It is a sender's choice to use either one or*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			several Extended facility information elements.
Q.932.8.2.5	Feature activation	NU	
Q.932.8.2.6	Feature indication	NU	
Q.932.8.2.7	Information request	NU	
Q.932.8.2.8	Notification indicator	I	*Following notes are added to figure 8-8/Q.932:* *NOTE 1: One or more NotificationDataStructures (as defined in table D.9) may be included depending on specific service requirements.* *NOTE 2: Octet 4 shall only be included when the notification description in octet 3 indicates the extension to Basic Encoding Rules (BER) encoded data structure usage.* *NOTE 3: Bit eight in octet 3 is used to extend the notification description field. If bit eight is 0, then another octet follows; if bit eight is 1, then octet 3 is the last octet. The value for a one octet field range from 1 to 127. For a multi-octet field, the order of bit values progressively decreases as the octet number increases.* *NOTE 4: The codepoints for the Notification description are defined in the ETSs of the individual supplementary services that use notifications.*
Q.932.8.2.9	Service profile identification	NU	
Q.932.9	Generic Notification Procedures	I	
Q.932.9.1	General	I	
Q.932.9.1.1	Introduction	I	
Q.932.9.1.2	Scope of the Procedures	I	
Q.932.9.1.3	Categories of Procedures	I	
Q.932.9.2	Call Related Notifications	--	
Q.932.9.2.1	Introduction	--	
Q.932.9.2.2	Procedures	--	
Q.932.9.2.2.1	Delivery of Call Related Notifications	I	*This paragraph is modified as follows:* *The delivery of bearer-related notifications shall use an active call reference of the call the notification is associated with and its underlying data link connection. In this context a call reference shall be active from the initiation of call establishment (including the SETUP message) to the completion of call clearing (including the RELEASE COMPLETE message).* *If the delivery of the notification coincides with call establishment or clearing procedures, the notification information can be carried in the associated call control messages. If the delivery of the notification indication coincides with the sending of a FACILITY message, the notification information can be carried in that message. In all other cases, the notification information shall be delivered in a NOTIFY message. In addition a NOTIFY message may be sent or received by the user or by the network only after the first response to a SETUP message has been sent or received and before clearing of the call reference is initiated.*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			If a notification is received by the network, the network shall: optionally ensure that the contents of the notification are a valid coding; and forward the notification to the other user involved in the call. *No call state change shall occur at either side of the interface following the sending or receipt of a NOTIFY message.*
Q.932.9.2.2.2	Error handling	I	*Following NOTE is added: The preferred option is to discard the unrecognised information in this instance.* *Following paragraph is added: If a notification is received by the network and the contents of the notification are determined to be an invalid or unrecognised coding, the notification shall be discarded and not forwarded to the other user involved in the call.*
Q.932.9.3	Call Independent Notifications	--	
Q.932.9.3.1	Introduction	--	
Q.932.9.3.2	Procedures	--	
Q.932.9.3.2.1	Underlying Data Link Layer Services	I	*Following paragraphs are added:* *The procedures specified enable the network to notify a user of supplementary service related events when no appropriate call reference is active.* *The application of these procedures in the direction user to network is not specified in this Q.932.*
Q.932.9.3.2.2	Delivery of Call Independent Notifications	I	
Q.932.9.3.2.3	Error handling	I	*This paragraph is modified as follows:* *If a user does not recognise information in the NOTIFY message then that information shall be discarded.* *When a message other than NOTIFY is received using the dummy call reference, and which does not apply to some other application of the dummy call reference, the receiving entity shall discard the message.*
Q.932.9.4	Extension of the Notification indicator information element	I	
Q.932.A	User service profiles and terminal identification	--	
Q.932.A.1	Introduction	I	
Q.932.A.2	User service profiles	I	
Q.932.A.3	Terminal identification	I	
Q.932.A.4	Initialization	I	
Q.932.A.4.1	Terminal requested initialization	I	
Q.932.A.4.2	Network solicited initialization	I	
Q.932.A.4.3	Collision	I	
Q.932.A.5	Identification procedures	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.932.B	SDL diagrams for Hold/Retrieve functions	NA	*This Annex B is outside the scope of this standard*
Q.932.B.1	Introduction	NA	
Q.932.C	Definition of address types	--	*This Annex C is replaced by the ETS 300 196 Annex D*
ETS 300 196.Annex	*D (normative): Formal definition of data types*	--	
ETS 300 196.D.1	*Component types*	--	
ETS 300 196.D.2	*Definition of generally applicable errors*	--	
ETS 300 196.D.3	*Definition of address types*	--	
ETS 300 196.D.4	*Definition of Q.931 information elements*	--	
ETS 300 196.D.5	*Formal definition of basic services*	--	
ETS 300 196.D.6	*Operations and errors for explicit channel reservation control*	--	
ETS 300 196.D.7	*Operation for status request procedure*	--	
ETS 300 196.D.8	*Types for notification procedures*	--	
Q.932.I	Illustration of the application for the three protocol types	--	*The feature key management protocol is not applicable.*
Q.950.	DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1 (DSS 1) STAGE 3 DESCRIPTION FOR SUPPLEMENTARY SERVICES USING DSS 1	--	
Q.950.1	Definition	--	
Q.950.2	Description	--	
Q.950.2.1	Structure of Q.95x-Series Recommendations	--	
Q.950.3	General principles	--	
Q.950.3.1	Generic protocol procedures	--	
Q.950.3.2	ASN.1 data type	--	
Q.950.3.3	Generic syntax of operations	--	
Q.950.3.3.1	Specification of operations	--	
Q.950.4	Library of operation values	--	
Q.950.4.1	Assignment of INTEGER values for operations and errors	--	
Q.950.4.1.1	Operation value assignment	--	
Q.950.4.1.2	Error value assignment	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.950.4.1.3	Definition of the General Error List	--	
Q.950.4.1.4	List of service-specific Errors	--	
Q.951_1.	SUPPLEMENTARY SERVICES paragraph 1 – Direct-Dialing-In (DDI) paragraph 2 – Multiple Subscriber Number (MSN) paragraph 8 – Sub-adressing (SUB)	--	
Q.951.1	SUPPLEMENTARY SERVICE Direct-Dialling-In (DDI)	--	
Q.951.1.1	Definition	--	
Q.951.1.2	Description	--	
Q.951.1.2.1	General description	--	*The following sentence is added: The DDI supplementary service shall be based on the use of the ISDN number and shall not include subaddressing.*
Q.951.1.2.2	Specific terminology	--	
Q.951.1.2.3	Qualification of the applicability to telecommunication services	--	
Q.951.1.2.4	State definitions	I	*The states associated with basic call control according to Q.931 shall apply.*
Q.951.1.3	Operational requirements	--	
Q.951.1.3.1	Provision/withdrawal	I	*The following Note is added: Subscription to the multiple subscriber number and DDI supplementary services is mutually exclusive. However, in some networks both supplementary services could co-exist on the same access (e.g. for future extension of service provision).* *The following paragraph are added:* *Use of partial numbers to transfer the DDI numbers is a public network option and may require a bilateral agreement between the public network and the private network.* *If this option is used, the proper operation of the DDI supplementary service may require a bilateral agreement between the public network and the private network on the starting point of partial numbers in relation to the full ISDN number and configuration within the private network.* *If a public network makes use of the partial number but always sends exactly that part of the ISDN number which is significant to the private network, then no bilateral agreement between the public network and the private network is required, and this rule forms the basis of the configuration within the private network.*
Q.951.1.3.2	Requirements on the originating network side	I	*The basic call control procedures according to §Q.931.5.1, shall apply.*
Q.951.1.3.3	Requirements in the network	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.1.3.4	Requirements on the terminating network side	I	*The paragraph is modified as follows:* *When the DDI supplementary service is provided to the called private network, the DDI number shall be passed to the user in the Called party number information element. The en-bloc or the overlap receiving procedure shall be used to transfer the number information according to the rules specified in §Q.931.5.2.* *The public network may send numbers using either en-bloc receiving or overlap receiving procedures. It is therefore mandatory for the private network to support the overlap receiving procedure, in addition to the en-bloc receiving procedure which is mandatory according to basic call (see Q.931).*
Q.951.1.4	Coding requirements	I	*The Called party number information element coded as in §Q.931.4.5.8, shall be used to indicate the DDI number.*
Q.951.1.5	Signalling requirements	NA	*The following NOTE is added: If the public network knows that an equipment attached to the access is not a private ISDN, then it does not need to implement the procedures of paragraph 10 and thus does not need to provide the DDI supplementary service for that access. If the public network does not know whether the attached equipment is a terminal or a private network then the procedures of paragraph 10 should be provided to that access if the DDI supplementary service is subscribed.The network knows the access configuration: Only private ISDNs can subscribe to DDI, subscription to MSN and DDI is mutually exclusive.*
Q.951.1.5.1	Activation/deactivation/registration	NA	
Q.951.1.5.2	Invocation and operation	--	
Q.951.1.5.2.1	Normal operation	--	As a subscription option the following cases can be distinguished: – only the latter part of the ISDN number is sent to the called user with TON: unknown – the subscriber number is sent to the called user with TON: subscriber number – the national number is sent to the called user with TON: national number – the international number is sent to the called user with TON: international number
Q.951.1.5.2.1.1	Actions at the originating local exchange	NA	
Q.951.1.5.2.1.2	Actions at the transit exchange	NA	
Q.951.1.5.2.1.3	Actions at the destination local exchange	I	*The paragraph is modified as follows:* *The DDI number shall be delivered from the public network to the private network in the number digits field of the Called party number information element, according the procedures of §Q.931.5.2.* *In the case where only the partial number is sent to the private network, the public network shall code the numbering plan identification field as "ISDN/telephony numbering plan (CCITT Recommendation E.164)" and the type of number field as "unknown". The private network shall recognise numbers sent in this format, however, for implementations destined only for public ISDNs that never use this*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			form, this requirement is not mandatory. *In the case where the full ISDN number is sent to the private network, the public network shall code the "numbering plan identification" field as "ISDN/telephony numbering plan (CCITT Recommendation E.164)" and the type of number field as "national number", "international number" or "subscriber number". The private network shall recognise numbers sent in all three formats.* *NOTE: This coding is independent of the use of en-bloc procedures (where the Called party number is sent in a single message) or overlap receiving procedures (where the Called party number is sent in digit by digit or by multiple digits in several messages as it becomes available).*
Q.951.1.5.2.2	Exceptional procedures	I	*The paragraph is modified as follows:* *The exceptional procedures of basic call shall apply (see Q.931).* *NOTE: As an alternative to clearing the call when incomplete or invalid digits are received, the user may accept the call. This has no impact on the protocol at the user-network access. The procedures at the private network where correct ISDN numbers received within the Called party number information element do not match a destination in a private ISDN are outside the scope of this Q.951.*
Q.951.1.6	Interactions with other supplementary services	--	
Q.951.1.6.1	Call Waiting	--	
Q.951.1.6.2	Call Transfer	NA	
Q.951.1.6.3	Connected Line Identification Presentation	--	
Q.951.1.6.4	Connected Line Identification Restriction	--	
Q.951.1.6.5	Calling Line Identification Presentation	--	
Q.951.1.6.6	Calling Line Identification Restriction	--	
Q.951.1.6.7	Closed User Group	--	
Q.951.1.6.8	Conference Calling	NA	
Q.951.1.6.9	Direct-Dialling-In	NA	
Q.951.1.6.10	Call Diversion (Call Forwarding) service	NA	
Q.951.1.6.10.1	Call Forwarding Busy	NA	
Q.951.1.6.10.2	Call Forwarding No Reply	NA	
Q.951.1.6.10.3	Call Forwarding Unconditional	NA	
Q.951.1.6.10.4	Call Deflection	NA	
Q.951.1.6.11	Line Hunting	NA	

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Q.951.1.6.12	Three-Party Service	NA	
Q.951.1.6.13	User-to-User Signalling	--	
Q.951.1.6.13.1	Service 1	--	
Q.951.1.6.13.2	Service 2	--	
Q.951.1.6.13.3	Service 3	--	
Q.951.1.6.14	Multiple Subscriber number	--	The DDI and MSN supplementary service are mutually exclusive.
Q.951.1.6.15	Call Hold	--	
Q.951.1.6.16	Advice of Charge	--	
Q.951.1.6.17	Sub-addressing	--	
Q.951.1.6.18	Terminal Portability	--	
Q.951.1.6.19	Call Completion Busy Subscriber	--	
Q.951.1.6.20	Malicious Call ID	--	
Q.951.1.7	Interactions with other networks	--	*The following NOTE is added:The DDI supplementary service may be used to enable successful terminal selection within the private ISDN when some compatibility information is absent when a call originates in a PSTN.*
Q.951.1.8	Signalling flows	I	
Q.951.1.9	Parameter values (timers)	I	
Q.951.1.10	Dynamic description (SDLs)	I	
Q.951.2	SUPPLEMENTARY SERVICE multiple Subscriber Number (MSN)	--	
Q.951.2.1	Definition	--	
Q.951.2.2	Description	--	
Q.951.2.2.1	General description	--	*The fourth paragraph is modified as follows:* *The MSN supplementary service shall enable each individual terminal on one access to have one or more identities, by which one individual terminal or a group of terminals (e.g. at a passive bus configuration) can be discriminated from the others.* *The following NOTE is added: ITU-T Recommendation E.164 provides the flexibility to administrations to use national numbering plans of fixed or variable length. This flexibility also applies to multiple subscriber numbers.*
Q.951.2.2.2	Specific terminology	--	
Q.951.2.2.3	Qualification on the applicability to telecommunication services	--	
Q.951.2.2.4	State definitions	I	
Q.951.2.3	Operational requirements	--	
Q.951.2.3.1	Provision and withdrawal	I	

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Q.951.2.3.2	Requirements on the originating network side	I	
Q.951.2.3.3	Requirements in the network	I	
Q.951.2.3.4	Requirements on the destination network side	I	
Q.951.2.4	Coding requirements	I	*The multiple subscriber number of the called user shall be inserted in the Called party number information element as specified in §Q.931.4.5.8.* *The multiple subscriber number of the calling user shall be inserted in the Calling party number information element as specified in §Q.931.4.5.10.*
Q.951.2.5	Signalling requirements	--	
Q.951.2.5.1	Activation, deactivation and registration	NA	
Q.951.2.5.2	Invocation and operation	--	
Q.951.2.5.2.1	Normal operation	--	
Q.951.2.5.2.1.1	Actions at the originating local exchange	I	*The following paragraphs are added:* *The user's selection from the choices in this paragraph shall be a user option. If no special arrangement has been made with the calling subscriber, then the network shall check the user provided calling party number information for validity on the corresponding access.*
Q.951.2.5.2.1.2	Actions at the transit exchange	NA	
Q.951.2.5.2.1.3	Actions at the destination local exchange	I	*Table 4-8/Q.931 must be read Table 4-9/Q.931.* *The following paragraphs are added:* *The network's selection from the choices in this paragraph shall be a network option. The network shall supply sufficient digits uniquely to identify one ISDN number from the set of ISDN numbers at that access. Users with the MSN supplementary service shall use the least significant "n" digits up to the total number of digits supplied as part of the terminal selection process. If a user receives more digits than it is programmed to require for terminal selection, then the most significant surplus digits shall be discarded for MSN purposes.* *If a user with the MSN supplementary service receives fewer digits than it is programmed to require for terminal selection, then that user shall use the available information in the Called party number information element for its terminal selection procedure.* As a subscription option the following cases can be distinguished: only the latter part of the ISDN number is sent to the called user with TON: unknown – the subscriber number is sent to the called user with TON: subscriber number – the national number is sent to the called user with TON: national number – the international number is sent to the called user with TON: international number

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.2.5.2.2	Exceptional procedures	--	
Q.951.2.5.2.2.1	Actions at the originating network side	I	*The normal basic call control procedures according to §Q.931.5.1 shall apply.*
Q.951.2.5.2.2.2	Actions at the destination user side	I	*The normal basic call control procedures according to §Q.931.5.2 shall apply.*
Q.951.2.6	Interaction with other supplementary services	--	
Q.951.2.6.1	Call Waiting	--	
Q.951.2.6.2	Call Transfer	NA	
Q.951.2.6.3	Connected Line Identification Presentation	--	
Q.951.2.6.4	Connected Line Identification Restriction	--	
Q.951.2.6.5	Calling Line Identification Presentation	--	
Q.951.2.6.6	Calling Line Identification Restriction	--	
Q.951.2.6.7	Closed User Group	--	
Q.951.2.6.8	Conference calling	NA	
Q.951.2.6.9	Direct-Dialling-In	--	The DDI and MSN supplementary service are mutually exclusive.
Q.951.2.6.10	Call diversion services	--	
Q.951.2.6.10.1	Call Forwarding Busy	NA	
Q.951.2.6.10.2	Call Forwarding No Reply	NA	
Q.951.2.6.10.3	Call Forwarding Unconditional	NA	
Q.951.2.6.10.4	Call Deflection	NA	
Q.951.2.6.11	Line Hunting	NA	
Q.951.2.6.12	Three-Party Service	NA	
Q.951.2.6.13	User-to-User Signalling	--	
Q.951.2.6.13.1	Service 1	NA	
Q.951.2.6.13.2	Service 2	NA	
Q.951.2.6.13.3	Service 3	NA	
Q.951.2.6.14	Multiple Subscriber Number	NA	
Q.951.2.6.15	Call Hold	--	
Q.951.2.6.16	Advice of Charge	NA	
Q.951.2.6.17	Sub-addressing	--	
Q.951.2.6.18	Terminal Portability	--	
Q.951.2.6.19	Completion of Calls to Busy Subscriber	--	*The ETS 300 195 is applicable. Please refer chapter ETS 300 359.*
Q.951.2.6.20	Malicious Call Identification	NA	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.2.7	Interaction with other networks	--	
Q.951.2.7.1	Interaction with non-ISDNs	--	
Q.951.2.7.2	Procedures for interworking with private ISDNs	I	The network knows the access configuration: The procedures for MSN do not apply.
Q.951.2.8	Signalling flows	I	
Q.951.2.9	Parameter values (timers)	I	
Q.951.2.10	Dynamic description (SDLs)	I	
Q.951.8	SUPPLEMENTARY SERVICES Sub-addressing (SUB)	--	
Q.951.8.1	Definition	--	
Q.951.8.2	Description	--	
Q.951.8.2.1	General description	--	
Q.951.8.2.2	Specific terminology	--	
Q.951.8.2.3	Qualification on the applicability to telecommunication services	--	
Q.951.8.2.4	State definitions	I	
Q.951.8.3	Operational requirements	--	
Q.951.8.3.1	Provision and withdrawal	I	*Last sentence is modified as follows: The SUB supplementary service shall be withdrawn on the subscriber's request or for administrative reasons.*
Q.951.8.3.2	Requirements on the originating network side	I	
Q.951.8.3.3	Requirements in the network	--	
Q.951.8.3.4	Requirements on the destination network side	I	
Q.951.8.4	Coding requirements	I	
Q.951.8.5	Signalling requirements	--	
Q.951.8.5.1	Activation, deactivation and registration	NA	
Q.951.8.5.2	Invocation and operation	--	
Q.951.8.5.2.1	Normal operation	--	
Q.951.8.5.2.1.1	Actions at the originating local exchange	I	
Q.951.8.5.2.1.2	Actions at the transit exchange	I	
Q.951.8.5.2.1.3	Actions at the destination local exchange	I	
Q.951.8.5.2.2	Exceptional procedures	I	
Q.951.8.6	Interaction with other supplementary services	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.8.6.1	Call Waiting	--	
Q.951.8.6.2	Call Transfer	NA	
Q.951.8.6.3	Connected Line Identification Presentation	--	
Q.951.8.6.4	Connected Line Identification Restriction	--	
Q.951.8.6.5	Calling Line Identification Presentation	--	
Q.951.8.6.6	Calling Line Identification Restriction	--	
Q.951.8.6.7	Closed User Group	--	
Q.951.8.6.8	Conference Calling	NA	
Q.951.8.6.9	Direct-Dialling-In	--	
Q.951.8.6.10	Call diversion services	NA	
Q.951.8.6.10.1	Call Forwarding Busy	NA	
Q.951.8.6.10.2	Call Forwarding No Reply	NA	
Q.951.8.6.10.3	Call Forwarding Unconditional	NA	
Q.951.8.6.10.4	Call Deflection	NA	
Q.951.8.6.11	Line Hunting	NA	
Q.951.8.6.12	Three-Party Service	NA	
Q.951.8.6.13	User-to-User signalling	--	
Q.951.8.6.13.1	Service 1	--	
Q.951.8.6.13.2	Service 2	NA	
Q.951.8.6.13.3	Service 3	NA	
Q.951.8.6.14	Multiple Subscriber Number	--	
Q.951.8.6.15	Call Hold	--	
Q.951.8.6.16	Advice of Charge	NA	
Q.951.8.6.17	Sub-addressing	NA	
Q.951.8.6.18	Terminal Portability	--	
Q.951.8.6.19	Completion of Calls to Busy Subscriber	--	*The ETS 300 195.5.42 is applicable. Please refer chapter ETS 300 359.*
Q.951.8.6.20	Malicious Call Identification	NA	
Q.951.8.7	Interaction with other networks	--	
Q.951.8.7.1	Interaction with non-ISDNs	--	
Q.951.8.7.2	Interaction with private ISDNs	I	
Q.951.8.8	Signalling flow	I	
Q.951.8.9	Parameter values (timers)	I	
Q.951.8.10	Dynamic description (SDLs)	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951_3	SUPPLEMENTARY SERVICES paragraph 3 – Calling Line Identification Presentation (CLIP) paragraph 4 – Calling Line Identification Restriction (CLIR) paragraph 5 – Connected Line Identification Presentation (COLP) paragraph 6 – Calling Line Identification Restriction (COLR)	--	
Q.951.3	SUPPLEMENTARY SERVICE Calling Line Identification Presentation (CLIP)	--	
Q.951.3.1	Definition	--	
Q.951.3.2	Description	--	
Q.951.3.2.1	General description	--	
Q.951.3.2.2	Specific terminology	--	
Q.951.3.2.3	Qualification on the applicability to telecommunication services	--	
Q.951.3.2.4	State definitions	--	
Q.951.3.3	Operational requirements	--	
Q.951.3.3.1	Provision/withdrawal	I	*The CLIP supplementary service shall be activated and deactivated by the service provider. This supplementary service requires no registration.*
Q.951.3.3.2	Requirements on the originating network side	I	
Q.951.3.3.3	Requirements in the network	NA	
Q.951.3.3.4	Requirements on the destination network side	I	
Q.951.3.4	Coding requirements	I	
Q.951.3.5	Signalling requirements	--	
Q.951.3.5.1	Activation/deactivation/registration	NA	
Q.951.3.5.2	Invocation and operation	--	
Q.951.3.5.2.1	Actions at the originating local exchange	--	
Q.951.3.5.2.1.1	Normal operation	--	
Q.951.3.5.2.1.1.1	Actions at the originating user	I	
Q.951.3.5.2.1.1.2	Actions at the originating local exchange if a special arrangement does not apply	I	
Q.951.3.5.2.1.1.3	Actions at the originating local	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
	exchange if a special arrangement applies		
Q.951.3.5.2.1.2	Exceptional procedures	NA	
Q.951.3.5.2.2	Actions at the transit exchange	NA	
Q.951.3.5.2.3	Actions at the destination local exchange	--	
Q.951.3.5.2.3.1	Normal operation	I	
Q.951.3.5.2.3.2	Exceptional procedures	NA	
Q.951.3.6	Interaction with other supplementary services	--	
Q.951.3.6.1	Call Waiting	--	
Q.951.3.6.2	Call Transfer	--	
Q.951.3.6.3	Connected Line Identification Presentation	--	
Q.951.3.6.4	Connected Line Identification Restriction	--	
Q.951.3.6.5	Calling Line Identification Presentation	NA	
Q.951.3.6.6	Calling Line Identification Restriction	I	
Q.951.3.6.7	Closed User Group	--	
Q.951.3.6.8	Conference Calling	--	*Please refer to Q.954.1.*
Q.951.3.6.9	Direct-Dialling-In	NA	
Q.951.3.6.10	Call diversion (call forwarding) services	--	
Q.951.3.6.10.1	Call Forwarding Busy	--	*Please refer to Q.952.2.*
Q.951.3.6.10.2	Call Forwarding No Reply	--	*Please refer to Q.952.3.*
Q.951.3.6.10.3	Call Forwarding Unconditional	--	*Please refer to Q.952.4.*
Q.951.3.6.10.4	Call Deflection	--	*Please refer to Q.952.5.*
Q.951.3.6.11	Line Hunting	--	
Q.951.3.6.12	Three-Party Service	--	
Q.951.3.6.13	User-to-User Signalling	--	
Q.951.3.6.13.1	Service 1	--	
Q.951.3.6.13.2	Service 2	--	
Q.951.3.6.13.3	Service 3	--	
Q.951.3.6.14	Multiple Subscriber Number	I	
Q.951.3.6.15	Call Hold	--	
Q.951.3.6.16	Advice of charge	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.3.6.17	Sub-addressing	--	
Q.951.3.6.18	Terminal Portability	--	
Q.951.3.6.19	Completion of Calls to Busy Subscriber	--	*The ETS 300 195.5.38 is applicable. Please refer chapter ETS 300 359.*
Q.951.3.6.20	Malicious Call Identification	--	
Q.951.3.6.21	Reverse Charging	--	
Q.951.3.6.22	Multilevel Precedence and Preemption	--	
Q.951.3.7	Interaction with other networks	--	
Q.951.3.7.1	Interaction with non-ISDNs	I	
Q.951.3.7.2	Procedures for interworking with private ISDNs	I	
Q.951.3.8	Signalling flows	--	
Q.951.3.9	Parameter values (timers)	--	
Q.951.3.10	Dynamic description	--	
Q.951.A	Annex A (referred to in paragraph 3)Two Calling party number information elements delivery option	NU	
Q.951.4	SUPPLEMENTARY SERVICE Calling Line Identification Restriction (CLIR)	--	
Q.951.4.1	Definition	--	
Q.951.4.2	Description	--	
Q.951.4.2.1	General description	--	
Q.951.4.2.2	Specific terminology	--	
Q.951.4.2.3	Qualification on the applicability to telecommunication services	--	
Q.951.4.2.4	State definition	--	
Q.951.4.3	Operational requirements	--	
Q.951.4.3.1	Provision/withdrawal	I	
Q.951.4.3.2	Requirements on the originating network side	I	
Q.951.4.3.3	Requirements in the network	NA	
Q.951.4.3.4	Requirements on the destination network side	I	
Q.951.4.4	Coding requirements	I	
Q.951.4.5	Signalling requirements	--	
Q.951.4.5.1	Activation/deactivation/registration	NA	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.4.5.2	Invocation and operation	--	
Q.951.4.5.2.1	Actions at the originating user	--	
Q.951.4.5.2.2	Actions at the originating local exchange	--	
Q.951.4.5.2.2.1	Normal operation	I	
Q.951.4.5.2.2.2	Exceptional procedures	NA	
Q.951.4.5.2.3	Actions at the transit exchange	NA	
Q.951.4.5.2.4	Actions at the destination local exchange	--	
Q.951.4.5.2.4.1	Normal operation	I	
Q.951.4.5.2.4.2	Exceptional procedures	NA	
Q.951.4.6	Interaction with other supplementary services	--	
Q.951.4.6.1	Call Waiting	--	
Q.951.4.6.2	Call Transfer	--	
Q.951.4.6.3	Connected Line Identification Presentation	--	
Q.951.4.6.4	Connected Line Identification Restriction	--	
Q.951.4.6.5	Calling Line Identification Presentation	I	
Q.951.4.6.6	Calling Line Identification Restriction	NA	
Q.951.4.6.7	Closed User Group	--	
Q.951.4.6.8	Conference Calling	--	*Please refer to Q.954.1.*
Q.951.4.6.9	Direct-Dialling-In	--	
Q.951.4.6.10	Call diversion (call forwarding) services	--	
Q.951.4.6.10.1	Call Forwarding Busy	--	*Please refer to Q.952.2.*
Q.951.4.6.10.2	Call Forwarding No Reply	--	*Please refer to Q.952.3.*
Q.951.4.6.10.3	Call Forwarding Unconditional	--	*Please refer to Q.952.4.*
Q.951.4.6.10.4	Call Deflection	--	*Please refer to Q.952.5.*
Q.951.4.6.11	Line Hunting	--	
Q.951.4.6.12	Three-Party Service	--	
Q.951.4.6.13	User-to-User Signalling	--	
Q.951.4.6.13.1	Service 1	--	
Q.951.4.6.13.2	Service 2	--	
Q.951.4.6.13.3	Service 3	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.4.6.14	Multiple Subscriber Number	--	
Q.951.4.6.15	Call Hold	--	
Q.951.4.6.16	Advice of Charge	I	
Q.951.4.6.17	Sub-addressing	--	
Q.951.4.6.18	Terminal Portability	--	
Q.951.4.6.19	Completion of Calls to Busy Subscriber	--	*The ETS 300 195.39 is applicable. Please refer chapter ETS 300 359*
Q.951.4.6.20	Malicious Call Identification	--	
Q.951.4.6.21	Reverse Charging	--	
Q.951.4.6.22	Multi-level Precedence and Preemption	--	
Q.951.4.7	Interaction with other networks	--	
Q.951.4.7.1	Interaction with other networks	I	
Q.951.4.7.2	Procedures for interworking with private ISDNs	I	
Q.951.4.8	Signalling flows	--	
Q.951.4.9	Parameter values (timers)	--	
Q.951.4.10	Dynamic description	--	
Q.951.5	SUPPLEMENTARY SERVICE Connected Line Identification Presentation (COLP)	--	
Q.951.5.1	Definition	--	
Q.951.5.2	Description	--	
Q.951.5.2.1	General description	--	
Q.951.5.2.2	Specific terminology	--	
Q.951.5.2.3	Qualification on the applicability to telecommunication services	--	
Q.951.5.2.4	State definition	--	
Q.951.5.3	Operational requirements	--	
Q.951.5.3.1	Provision/withdrawal	I	
Q.951.5.3.2	Requirements on the originating network side	I	
Q.951.5.3.3	Requirements in the network	NA	
Q.951.5.3.4	Requirements on the destination network side	I	
Q.951.5.4	Coding requirements	I	
Q.951.5.4.1	Connected number information element	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.5.4.2	Connected sub-address information element	I	
Q.951.5.5	Signalling requirements	--	
Q.951.5.5.1	Activation/deactivation/registration	NA	
Q.951.5.5.2	Invocation and operation	--	
Q.951.5.5.2.1	Actions at the originating local exchange	--	
Q.951.5.5.2.1.1	Normal operation	I	
Q.951.5.5.2.1.2	Exceptional procedures	NA	
Q.951.5.5.2.2	Actions at the transit exchange	NA	
Q.951.5.5.2.3	Actions at the destination local exchange	--	
Q.951.5.5.2.3.1	Normal operation	I	
Q.951.5.5.2.3.1.1	Action at the destination user	I	
Q.951.5.5.2.3.1.2	Actions at the destination local exchange if a special arrangement does not apply	I	
Q.951.5.5.2.3.1.3	Actions at the destination local exchange if a special arrangement applies	I	
Q.951.5.5.2.3.2	Exceptional procedures	NA	
Q.951.5.6	Interaction with other supplementary services	--	
Q.951.5.6.1	Call Waiting	--	
Q.951.5.6.2	Call Transfer	--	
Q.951.5.6.3	Connected Line Identification Presentation	NA	
Q.951.5.6.4	Connected Line Identification Restriction	I	
Q.951.5.6.5	Calling Line Identification Presentation	--	
Q.951.5.6.6	Calling Line Identification Restriction	--	
Q.951.5.6.7	Closed User Group	--	
Q.951.5.6.8	Conference Calling	--	*Please refer to Q.954.1.*
Q.951.5.6.9	Direct-Dialling-in	--	
Q.951.5.6.10	Call diversion (call forwarding) services	--	
Q.951.5.6.10.1	Call Forwarding Busy	--	*Please refer to Q.952.2.*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.5.6.10.2	Call Forwarding no Reply	--	*Please refer to Q.952.3.*
Q.951.5.6.10.3	Call Forwarding Unconditional	--	*Please refer to Q.952.4.*
Q.951.5.6.10.4	Call Deflection	--	*Please refer to Q.952.5.*
Q.951.5.6.11	Line Hunting	--	
Q.951.5.6.12	Three-Party Service	--	
Q.951.5.6.13	User-to-User Signalling	--	
Q.951.5.6.13.1	Service 1	--	
Q.951.5.6.13.2	Service 2	--	
Q.951.5.6.13.3	Service 3	--	
Q.951.5.6.14	Multiple Subscriber Number	--	
Q.951.5.6.15	Call Hold	--	
Q.951.5.6.16	Advice of charge	I	
Q.951.5.6.17	Sub-addressing	--	
Q.951.5.6.18	Terminal Portability	--	
Q.951.5.6.19	Completion of Calls to Busy Subscriber	--	
Q.951.5.6.20	Malicious Call Identification	--	
Q.951.5.6.21	Reverse Charging	--	
Q.951.5.6.22	Multilevel Precedence and Preemption	--	
Q.951.5.7	Interaction with other networks	--	
Q.951.5.7.1	Interaction with non-ISDNs	I	
Q.951.5.7.2	Procedures for interworking with private ISDNs	I	
Q.951.5.8	Signalling flows	--	
Q.951.5.9	Parameter values (timers)	--	
Q.951.5.10	Dynamic description	--	
Q.951.6	SUPPLEMENTARY SERVICE Connected Line Identification Restriction (COLR)	--	
Q.951.6.1	Definition	--	
Q.951.6.2	Description	--	
Q.951.6.2.1	General description	--	
Q.951.6.2.2	Specific terminology	--	
Q.951.6.2.3	Qualification on the applicability to telecommunication services	--	
Q.951.6.2.4	State definition	--	
Q.951.6.3	Operational requirements	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.6.3.1	Provision/withdrawal	I	
Q.951.6.3.2	Requirements on the originating network side	I	
Q.951.6.3.3	Requirements in the network	NA	
Q.951.6.3.4	Requirements on the destination network side	I	
Q.951.6.4	Coding requirements	I	
Q.951.6.5	Signalling requirements	--	
Q.951.6.5.1	Activation/deactivation/registration	NA	
Q.951.6.5.2	Invocation and operation	--	
Q.951.6.5.2.1	Actions at the originating local exchange	--	
Q.951.6.5.2.1.1	Normal operation	I	
Q.951.6.5.2.1.2	Exceptional procedures	NA	
Q.951.6.5.2.2	Actions at the transit exchange	NA	
Q.951.6.5.2.3	Action at the destination user	I	
Q.951.6.5.2.4	Actions at the destination local exchange	--	
Q.951.6.5.2.4.1	Normal operation	I	
Q.951.6.5.2.4.2	Exceptional procedures	NA	
Q.951.6.6	Interaction with other supplementary services	--	
Q.951.6.6.1	Call Waiting	--	
Q.951.6.6.2	Call Transfer	--	
Q.951.6.6.3	Connected Line Identification Presentation	I	
Q.951.6.6.4	Connected Line Identification Restriction	NA	
Q.951.6.6.5	Calling Line Identification Presentation	--	
Q.951.6.6.6	Calling Line Identification Restriction	--	
Q.951.6.6.7	Closed User Group	--	
Q.951.6.6.8	Conference Calling	--	*Please refer to Q.954.1.*
Q.951.6.6.9	Direct-Dialling-In	--	
Q.951.6.6.10	Call diversion (call forwarding) services	--	
Q.951.6.6.10.1	Call Forwarding Busy	--	*Please refer to Q.952.2.*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.6.6.10.2	Call Forwarding no Reply	--	*Please refer to Q.952.3.*
Q.951.6.6.10.3	Call Forwarding Unconditional	--	*Please refer to Q.952.4.*
Q.951.6.6.10.4	Call Deflection	--	*Please refer to Q.952.5.*
Q.951.6.6.11	Line Hunting	--	
Q.951.6.6.12	Three-Party Service	--	
Q.951.6.6.13	User-to-User Signalling	--	
Q.951.6.6.13.1	Service 1	--	
Q.951.6.6.13.2	Service 2	--	
Q.951.6.6.13.3	Service 3	--	
Q.951.6.6.14	Multiple Subscriber Number	--	
Q.951.6.6.15	Call Hold	--	
Q.951.6.6.16	Advice of Charge	--	
Q.951.6.6.17	Sub-addressing	--	
Q.951.6.6.18	Terminal Portability	--	
Q.951.6.6.19	Completion of Calls to Busy Subscriber	--	
Q.951.6.6.20	Malicious Call Identification	--	
Q.951.6.6.21	Reverse Charging	--	
Q.951.6.6.22	Multilevel Precedence and Preemption	--	
Q.951.6.7	Interaction with other networks	--	
Q.951.6.7.1	Interaction with non-ISDNs	I	
Q.951.6.7.2	Procedures for interworking with private ISDNs	I	
Q.951.6.8	Signalling flows	--	
Q.951.6.9	Parameter values (timers)	--	
Q.951.6.10	Dynamic description	--	
Q.951.7.	SUPPLEMENTARY SERVICE Malicious Call Identification (MCID)	--	
Q.951.7.1	Scope	--	
Q.951.7.2	References	--	
Q.951.7.3	Definitions	--	The registration of the Calling Party Subaddress is not supported.
Q.951.7.4	Abbreviations	--	
Q.951.7.5	Description	--	
Q.951.7.6	Operational requirements	--	
Q.951.7.6.1	Provision/withdrawal	I	
Q.951.7.6.2	Requirements on the originating network side	NA	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.7.6.3	Requirements on the terminating network side	NA	
Q.951.7.7	Coding requirements	I	
Q.951.7.8	State definitions	I	
Q.951.7.9	Signalling requirements	--	
Q.951.7.9.1	Activation/deactivation/registration	NA	
Q.951.7.9.2	Invocation and operation	--	
Q.951.7.9.2.1	Normal operation	I	
Q.951.7.9.2.2	Exceptional procedures	I	
Q.951.7.10	Procedures for interworking with private ISDNs	I	
Q.951.7.11	Interactions with other networks	--	
Q.951.7.11.1	Interactions with non-ISDNs	NA	
Q.951.7.12	Interactions with other supplementary services	--	
Q.951.7.12.1	Call waiting	--	
Q.951.7.12.2	Explicit call transfer	I	
Q.951.7.12.3	Connected line identification presentation	--	
Q.951.7.12.4	Connected line identification restriction	--	
Q.951.7.12.5	Calling line identification presentation	--	
Q.951.7.12.6	Calling line identification restriction	I	
Q.951.7.12.7	Closed user group	--	
Q.951.7.12.8	Conference calling	I	
Q.951.7.12.9	Direct dialling in	--	
Q.951.7.12.10	Call diversion (call forwarding) services	--	
Q.951.7.12.10.1	Call forwarding busy	I	
Q.951.7.12.10.2	Call forwarding no reply	I	
Q.951.7.12.10.3	Call forwarding unconditional	I	
Q.951.7.12.10.4	Call deflection	I	
Q.951.7.12.11	Line hunting	--	
Q.951.7.12.12	Three-Party service	--	
Q.951.7.12.13	User-to-user signalling	--	
Q.951.7.12.13.1	Service 1	--	
Q.951.7.12.13.2	Service 2	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.951.7.12.13.3	Service 3	--	
Q.951.7.12.14	Multiple subscriber number	--	
Q.951.7.12.15	Call hold	--	
Q.951.7.12.16	Advice of charge	--	
Q.951.7.12.17	Subaddressing	--	
Q.951.7.12.18	Terminal portability	I	
Q.951.7.12.19	Completion of calls to busy subscribers	--	
Q.951.7.12.20	Malicious call identification	NA	
Q.951.7.12.21	Reverse charging	NA	
Q.951.7.12.22	Multilevel precedence and preemption	NA	
Q.951.7.12.23	Support of private numbering plan	NA	
Q.951.7.12.24	International telecommunication charge card	NA	
Q.951.7.12.25	Global virtual network services	NA	
Q.951.7.13	Parameter values (timers)	--	
Q.951.7.14	Dynamic description (SDLs)	I	
Q.952.	SUPPLEMENTARY SERVICE CALL DIVERSION	--	
Q.952.1	Definition	--	
Q.952.1.1	Scope	--	
Q.952.2	Description	--	
Q.952.2.1	General description	--	
Q.952.2.2	Definitions	--	
Q.952.2.3	Abbreviations	--	
Q.952.2.4	State definitions	--	
Q.952.3	Operational requirements	--	
Q.952.3.1	Provision/withdrawal	I	*Table 1/Q.952:* *The first, second and the seventh rows are deleted. The following row is added:* *Subscription options: Activation, deactivation and interrogation for ISDN-numbers on the same access (in case of subscription on a per ISDN number basis)(note 2)* *Value: Yes/no* *Applicability: CFU/CFB/CFNR* *Following notes are added:* *NOTE 1: These options apply separately to each instance of the supplementary service that the user has subscribed to.* *NOTE 2: This option applies to all the instances subscribed to on the access of the*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			served user for the related supplementary service. *Table 2/Q.952:* *The second, third, seventh rows and the 2 notes are deleted. The following row is added:* *Network provider options: The call-by-call indication overrides the value of the subscription option "Diverting number is released to the diverted-to user".* *Value: Yes/no* *Applicability: CD* *Following note to „Partial rerouting“ is added:* *Partial rerouting can be invoked by the private network towards the public network when the CFU, CFB, CFNR or CD supplementary services are invoked in the private network.*
Q.952.3.2	Requirements on the originating network side:	I	
Q.952.3.3	Requirements on the destination network side	I	
Q.952.4	Coding requirements	--	
Q.952.4.1	Coding of the information elements	--	
Q.952.4.1.1	Coding of the Notification indicator information element	I	*The Note of Table 3/Q.952 is deleted.*
Q.952.4.1.2	Coding of the Redirecting number information element	I	*In Table 4/Q.952:* *The note is deleted.* *The last value meaning is modified as follows : Call Deflection.*
Q.952.4.1.3	Coding of Redirection number information element	I	
Q.952.4.2	Component coding for the Facility information element	I	*Following values is deleted from EXPORTS:* *InvokeStatusType,* *Following value is replace in EXPORTS:* *InterrogationDiversion1Type with InterrogateServedUserNumbers* *Following values are added to EXPORTS:* *InvalidDivertedToNr,* *SpecialServiceNr,* *DiversionToServedUserNr,* *IncomingCallAccepted,* *NumberOfDiversionsExceeded,* *NotActivated,* *RequestAlreadyAccepted,* *invalidDivertedToNr,* *specialServiceNr,*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			diversionToServedUserNr, *incomingCallAccepted,* *numberOfDiversionsExceeded,* *notActivated,* *requestAlreadyAccepted;* *Following values are deleted from IMPORTS:* *RoutingInformation,* *CallFailure* *Following paragraph are added to the paragraph:* *The formal definition of the component types to encode these operations and errors is provided in §Q.932.C.* *The inclusion of components in Facility information elements is defined in §Q.932.8.2.3.* *All components (invoke, return result, return error and reject) shall be included within a Facility information element. This Facility information element may be included in any appropriate message as specified in §Q.932.6.3.2.1, unless a more restrictive specification is given in §Q.952.5.*
Q.952.5	Signalling procedures at the coincident S and T reference point	--	
Q.952.5.1	Activation/deactivation/interrogation	I	*This paragraph are replaced by the paragraph ETS 300 20.9.1*
ETS 300 207.9.1	*Activation, deactivation and interrogation*	--	
ETS 300 207.9.1.1	*Activation*	I	
ETS 300 207.9.1.1.1	*Normal operation*	I	
ETS 300 207.9.1.1.2	*Exceptional procedures*	I	
ETS 300 207.9.1.2	*Deactivation*	--	
ETS 300 207.9.1.2.1	*Normal operation*	I	
ETS 300 207.9.1.2.2	*Exceptional procedures*	I	
ETS 300 207.9.1.3	*Interrogation of the served user numbers*	--	
ETS 300 207.9.1.3.1	*Normal procedures*	I	
ETS 300 207.9.1.3.2	*Exceptional procedures*	I	
ETS 300 207.9.1.4	*Interrogation of a single or multiple instances of the supplementary service*	--	
ETS 300 207.9.1.4.1	*Normal operation*	I	
ETS 300 207.9.1.4.2	*Exceptional*	I	
Q.952.5.2	Invocation and operation	I	
Q.952.5.2.1	Notification of diversion to the	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
	calling user		
Q.952.5.2.1.1	Normal operation	I	*The fourth first paragraph are replaced by:* *When the first diversion after the call is requested is indicated to the calling network, and if the summary condition "calling user is notified of diversion" has a value other than "no" (in this case the summary condition is equivalent to the received subscription option) then the calling network shall send an appropriate message to the calling user with the Notification indicator information element coded "call is diverting". No other information concerning the diversion shall be included at this time.* *When a subsequent diversion is indicated to the calling network with the diverting cause diversion due to either the CFNR or the CD alerting supplementary services (i.e. the served user has reached the alerting phase), and if the summary condition "calling user is notified of diversion" has a value other than "no" then the calling network shall send an appropriate message to the calling user with the Notification indicator information element coded "call is diverting". No other information concerning the diversion shall be included at this time.*
Q.952.5.2.1.2	Exceptional procedures	I	
Q.952.5.2.2	Identification of the forwarded-to user to the calling user	--	
Q.952.5.2.2.1	Normal operation	I	*The last sentence of the first paragraph is replaced by:* *When this presentation indicator is not received, the calling network shall assume that presentation is not allowed.*
Q.952.5.2.2.2	Exceptional procedures	I	
Q.952.5.2.3	Operation at the served user	--	
Q.952.5.2.3.1	Call forwarding unconditional procedures	--	
Q.952.5.2.3.1.1	Normal operation	I	*The paragraph is replaced by ETS 300 207.9.2.4.1.1.*
Q.952.5.2.3.1.2	Exceptional procedures	I	
Q.952.5.2.3.2	Call forwarding busy “NDUB” procedures	--	
Q.952.5.2.3.2.1	Normal operation	I	*The paragraph is replaced by ETS 300 207.9.2.4.2.1.*
Q.952.5.2.3.2.2	Exceptional Procedures	I	
Q.952.5.2.3.3	Call forwarding busy “UDUB” procedures	--	
Q.952.5.2.3.3.1	Normal operation	I	*The paragraph is replaced by ETS 300 207.9.2.4.3.1.*
Q.952.5.2.3.3.2	Exceptional procedures	I	
Q.952.5.2.3.4	Call forwarding no reply procedures	--	
Q.952.5.2.3.4.1	Normal operation	I	*The paragraph is replaced by ETS 300 207.9.2.4.4.1.*
Q.952.5.2.3.4.2	Exceptional procedures	I	*The paragraph is replaced by ETS 300 207.9.2.4.4.2.*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.952.5.2.3.5	Call deflection	--	
Q.952.5.2.3.5.1	Normal operation	I	*The paragraph is replaced by ETS 300 207.9.2.4.5.1.*
Q.952.5.2.3.5.2	Exceptional procedures	I	*The paragraph is replaced by ETS 300 207.9.2.4.5.2.*
Q.952.5.2.4	Operation at the diverted-to-user	--	
Q.952.5.2.4.1	Normal operation	I	*The paragraph is replaced by ETS 300 207.9.2.5.1.*
Q.952.5.2.4.2	Exceptional procedures	I	*The paragraph is replaced by ETS 300 207.9.2.5.2.*
Q.952.5.3	Reminder notification to the served user	--	
Q.952.5.3.1	Normal operation	I	*The paragraph is modified as follows:* *If the served user has activated a call forwarding supplementary service and an outgoing call is made, the network shall, as a subscription option, include a Notification indicator information element with a notification description value of "diversion activated" in the first call control message for that call sent from the network to the served user, if the following conditions are fulfilled:* *- the number given in the Calling party number information element, if provided, is identical to the served user number; and,* *- the Bearer capability information element, and the High layer compatibility information element, if provided, indicate the same basic service as call forwarding is activated for.* *If the Calling party number information element is not included in the SETUP message, or the number is invalid, the network may use a default number of the access if provided when making the comparison. If the subscription is on a per ISDN number basis and if neither the Calling party number information element is provided nor a default number is available at the network, then no reminder notification can be provided for the access of the served user. If the subscription is for the whole access or if the MSN supplementary service does not apply and if subscribed to the reminder notification, then the reminder notification shall always be provided.*
Q.952.6	Interaction with other supplementary services	--	
Q.952.6.1	Calling Line Identification Presentation	--	
Q.952.6.2	Calling Line Identification Restriction	--	
Q.952.6.3	Connected Line Identification Presentation	I	*For Call Deflection, Call Forwarding Busy, Call Forwarding in No Reply and Call Forwarding Unconditional, the paragraph ETS 300 195.5.18 is applicable.* *For Signalling procedures at the coincident S and T reference point, in Normal operation* *For the presentation of the connected line identification to the calling user the same conditions shall apply as for the presentation of the redirection number as specified*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			in §Q.952.5.2.1.1: – *if the value of the summary condition "calling user is notified of diversion" is "no" or "yes, without diverted-to number", the presentation shall be considered as restricted;* – *if the value of the summary condition "calling user is notified of diversion" is "yes, with diverted-to number", the presentation shall be according to the received presentation indicator.*
Q.952.6.4	Connected Line Identification Restriction	I	
Q.952.6.5	Call Waiting	--	
Q.952.6.6	Closed User Group	--	
Q.952.6.7	Advice of Charge	--	
Q.952.6.8	Direct-Dialling-In	--	
Q.952.6.9	Call Hold	--	
Q.952.6.10	Three-Party Service	--	
Q.952.6.11	Conference Calling	--	
Q.952.6.12	User-to-user signalling services	--	*For Call Deflection, the ETS 300 195.5.20 is applicable.* *For Call Forwarding Busy, the ETS 300 195.5.23 is applicable.* *For Call Forwarding in No Reply, the ETS 300 195.5.26 is applicable.* *For Call Forwarding Unconditional, the ETS 300 195.5.29 is applicable.*
ETS 300 195.5.20	*The CD and UUS supplementary services*	I	
ETS 300 195.5.20.1	*Coding requirements*	I	
ETS 300 195.5.20.2	*Signalling procedures at the coincident S and T reference point*	I	
ETS 300 195.5.20.2.1	*Procedures at the served user when deflection takes place before alerting*	I	
ETS 300 195.5.20.2.1.1	*Normal operation*	I	
ETS 300 195.5.20.2.1.2	*Exceptional procedures*	I	
ETS 300 195.5.20.2.2	*Procedures at the served user when deflection takes place after alerting*	I	
ETS 300 195.5.20.2.2.1	*Service 1 implicitly requested*	I	
ETS 300 195.5.20.2.2.2	*Service 1 explicitly requested*	I	
ETS 300 195.5.20.2.2.3	*Service 2*	I	
ETS 300 195.5.20.2.2.4	*Service 3*	I	
ETS 300 195.5.20.3	*Procedures for interworking with*	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
	private ISDNs		
ETS 300 195.5.20.3.1	*Procedures where the CD supplementary service applies to the whole private ISDN*	I	
ETS 300 195.5.20.3.2	*Procedures where partial rerouteing takes place*	I	
ETS 300 195.5.23	*The CFB and UUS supplementary services*	--	
ETS 300 195.5.23.1	*Coding requirements*	I	
ETS 300 195.5.23.2	*Signalling procedures at the coincident S and T reference point*	I	
ETS 300 195.5.23.2.1	*Normal operation*	I	
ETS 300 195.5.23.2.2	*Exceptional procedures*	I	
ETS 300 195.5.23.3	*Procedures for interworking with private ISDNs*	I	
ETS 300 195.5.23.3.1	*Procedures where the CFB supplementary service applies to the whole private ISDN*	I	
ETS 300 195.5.23.3.2	*Procedures where partial rerouteing takes place*	I	
ETS 300 195.5.23.3.2.1	*Normal operation*	I	
ETS 300 195.5.23.3.2.2	*Exceptional*	NA	
ETS 300 195.5.26	*The CFNR and UUS supplementary services*	--	
ETS 300 195.5.26.1	*Coding requirements*	I	
ETS 300 195.5.26.2	*Signalling procedures at the coincident S and T reference point*	I	
ETS 300 195.5.26.2.1	*Service 1 implicitly requested*	I	
ETS 300 195.5.26.2.1.1	*Normal operation*	I	
ETS 300 195.5.26.2.1.2	*Exceptional procedures*	--	
ETS 300 195.5.26.2.2	*Service 1 explicitly requested*	--	
ETS 300 195.5.26.2.2.1	*Normal operation*	I	
ETS 300 195.5.26.2.2.2	*Exceptional procedures*	--	
ETS 300 195.5.26.2.3	*Service 2*	--	
ETS 300 195.5.26.2.3.1	*Normal operation*	I	
ETS 300 195.5.26.2.3.2	*Exceptional procedures*	--	
ETS 300 195.5.26.2.4	*Service 3*	--	
ETS 300 195.5.26.2.4.1	*Normal operation*	I	
ETS 300 195.5.26.2.4.2	*Exceptional procedures*	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 195.5.26.3	*Procedures for interworking with private ISDNs*	--	
ETS 300 195.5.26.3.1	*Procedures where the CFNR supplementary services applies to the whole private ISDN*	I	
ETS 300 195.5.26.3.2	*Procedures where partial rerouteing takes place*	I	
ETS 300 195.5.29	*The CFU and UUS supplementary services*	--	
ETS 300 195.5.29.1	*Coding requirements*	I	
ETS 300 195.5.29.2	*Signalling procedures at the coincident S and T reference point*	I	
ETS 300 195.5.29.2.1	*Normal operation*	I	
ETS 300 195.5.29.2.2	*Exceptional procedures*	I	
ETS 300 195.5.29.3	*Procedures for interworking with private ISDNs*	--	
ETS 300 195.5.29.3.1	*Procedures where the CFU supplementary service applies to the whole private ISDN*	I	
ETS 300 195.5.29.3.2	*Procedures where partial rerouteing takes place*	I	
Q.952.6.13	Malicious Call	--	
Q.952.6.14	Call Transfer	--	
Q.952.6.15	Freephone	--	
Q.952.6.16	CCBS	--	
Q.952.6.17	Terminal Portability	--	
Q.952.6.18	Sub-addressing	--	
Q.952.6.19	Multiple Subscriber Number	--	
Q.952.7	Interactions with other networks	--	
Q.952.7.1	Interactions with non-ISDNs	I	
Q.952.7.2	Procedures for interworking with private ISDNs	--	*The ETS 300 195.10 is applicable.*
ETS 300 195.10	*Procedures for interworking with private ISDNs*	--	
ETS 300 195.10.1	*Procedures where a call from the public ISDN is diverted within or beyond the private ISDN*	--	
ETS 300 195.10.1.1	*Normal operation*	*I*	
ETS 300 195.10.1.2	*Exceptional procedures*	*I*	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 195.10.2	*Presentation of a diverted call from a public ISDN to the private ISDN*	--	
ETS 300 195.10.2.1	*Normal operation*	*I*	
ETS 300 195.10.2.2	*Exceptional procedures*	*I*	
ETS 300 195.10.3	*Procedures where a call from the private ISDN is diverted within or beyond the public ISDN*	*I*	
ETS 300 195.10.4	*Presentation of a diverted call from a private ISDN to the public ISDN*	--	
ETS 300 195.10.4.1	*Normal operation*	*I*	
ETS 300 195.10.4.2	*Exceptional procedures*	*I*	
ETS 300 195.10.5	*Procedures where a call from the public ISDN is diverted within or beyond the private ISDN and partial rerouteing takes place in the public ISDN*	--	
ETS 300 195.10.5.1	*Normal operation*	*I*	
ETS 300 195.10.5.2	*Exceptional procedures*	*I*	
ETS 300 195.10.6	*Procedures where a call from the public ISDN to the private ISDN is diverted by the ISDN*	*I*	
Q.952.8	Signalling flows	--	
Q.952.9	Parameter values (timer)	--	*This paragraph is modified as follows:* *The following timer has been identified in the procedures text:* *Network timer T-CFNR: this timer shall be started when the first ALERTING message is received from the served user. This timer shall be stopped when a CONNECT message is received. On expire, call forwarding is initiated. The duration of the timer shall be a network provider option.* *The following values of timers shall be used by this application when using the procedures of §Q.952.7.2 sub paragraph 10.2 of ETS 300 196-1.* *T-ACTIVATE: The duration of the timer shall be 4 seconds.* *T-DEACTIVATE: The duration of the timer shall be 4 seconds.* *T-INTERROGATE: The duration of the timer shall be 4 seconds.*
Q.952.10	Dynamic description (SDLS)	--	
Q.952.A	Annex A	--	
Q.952.7.	Explicit call transfer	--	
Q.952.7.1	Scope	--	
Q.952.7.2	References	--	
Q.952.7.3	Definitions	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.952.7.4	Abbreviations	--	
Q.952.7.5	Description	--	*The following sentences are added:* *The procedures are currently restricted to basic telecommunication services involving a single 64 kbit/s connection. This standard is not applicable to a video telephony call involving two 64 kbit/s connections.* The ECT supplementary service is only supported for subscribrers who have two incoming calls or have one incoming and one outgoing call at which the first one is the incoming call. Clarification: – network provider option 'the ECT supplementary service can be provided at the T reference point' is supported
Q.952.7.6	Operational requirements	--	
Q.952.7.6.1	Provision and withdrawal	I	
Q.952.7.6.2	Requirements on the originating network side	I	
Q.952.7.6.3	Requirements on the destination network side	I	
Q.952.7.7	Coding requirements	--	
Q.952.7.7.1	Coding of the Facility information element components	I	In table 7-1/Q.952.7, The following operations are not supported: – EctLinkIdRequest – EctLoopTest – ExplicitEctExecute
Q.952.7.7.2	Coding of the Notification indicator information element	I	
Q.952.7.7.3	Coding of the Redirection number information element	I	
Q.952.7.8	State definitions	I	
Q.952.7.9	Signalling procedures at the coincident S and T reference point	--	
Q.952.7.9.1	Activation, deactivation and registration	NA	
Q.952.7.9.2	Invocation and operation	I	
Q.952.7.9.2.1	Explicit call transfer request using implicit linkage procedures	--	
Q.952.7.9.2.1.1	Normal operation	I	
Q.952.7.9.2.1.2	Exceptional procedures	I	The error values are not supported according ETSI.
Q.952.7.9.2.2	Explicit call transfer request using explicit linkage procedures	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.952.7.9.2.2.1	Requesting a LinkId value	--	
Q.952.7.9.2.2.1.1	Normal operation	NU	
Q.952.7.9.2.2.1.2	Exceptional procedures	NU	
Q.952.7.9.2.2.2	Requesting call transfer	--	
Q.952.7.9.2.2.2.1	Normal operation	NU	
Q.952.7.9.2.2.2.2	Exceptional procedures	NU	
Q.952.7.9.2.3	Confirmation of call transfer	--	
Q.952.7.9.2.3.1	Normal operation	NU	
Q.952.7.9.2.3.2	Exceptional procedures	NA	
Q.952.7.9.2.4	Procedures for remote users when both users are in the Active call state	--	
Q.952.7.9.2.4.1	Normal operation	I	
Q.952.7.9.2.4.2	Exceptional procedures	NA	
Q.952.7.9.2.5	Procedures for remote users with one user in the Call Delivered call state (network option)	--	
Q.952.7.9.2.5.1	Normal operation	I	
Q.952.7.9.2.5.2	Exceptional procedures	NA	
Q.952.7.9.3	Content of notification information	I	
Q.952.7.10	Procedures for interworking with private ISDNs	--	
Q.952.7.10.1	Call transfer performed in the private network, served user is connected to the private ISDN	--	
Q.952.7.10.1.1	Normal operation	I	
Q.952.7.10.1.2	Exceptional procedures	I	
Q.952.7.10.2	Call transfer performed in the public network, remote user is connected to the private ISDN	--	
Q.952.7.10.2.1	Normal operation	I	
Q.952.7.10.2.2	Exceptional procedures	I	
Q.952.7.10.3	Procedures for the mechanism to avoid looping of uncontrolled circuits	--	
Q.952.7.10.3.1	Procedures at the served network side	--	
Q.952.7.10.3.1.1	Normal operation	NU	
Q.952.7.10.3.1.2	Exceptional procedures	NU	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.952.7.10.3.2	Procedures at the remote network side	--	
Q.952.7.10.3.2.1	Normal operation	NU	
Q.952.7.10.3.2.2	Exceptional procedures	NU	
Q.952.7.10.4	Call transfer performed by the public ISDN, served user is connected to the private ISDN	I	
Q.952.7.11	Interactions with other networks	I	
Q.952.7.12	Interaction with other supplementary services	--	
Q.952.7.12.1	Call Waiting	--	
Q.952.7.12.2	Call Transfer	NA	
Q.952.7.12.3	Connected Line Identification Presentation	--	
Q.952.7.12.4	Connected Line Identification Restriction	--	
Q.952.7.12.5	Calling Line Identification Presentation	--	
Q.952.7.12.6	Calling Line Identification Restriction	--	
Q.952.7.12.7	Closed User Group	--	
Q.952.7.12.7.1	Coding requirements	--	
Q.952.7.12.7.2	Signalling procedures at the coincident S and T reference point	--	
Q.952.7.12.7.2.1	Invocation of the ECT supplementary service	--	
Q.952.7.12.7.2.1.1	Normal operation	--	
Q.952.7.12.7.2.1.2	Exceptional procedures	I	
Q.952.7.12.7.3	Procedures for interworking with private ISDNs	--	
Q.952.7.12.7.3.1	Normal operation	I	
Q.952.7.12.7.3.2	Exceptional procedure	I	
Q.952.7.12.8	Conference Calling	--	
Q.952.7.12.8.1	Coding requirements	--	
Q.952.7.12.8.2	Signalling procedures at the coincident S and T reference point	--	
Q.952.7.12.8.2.1	Served user uses the ECT supplementary service	--	
Q.952.7.12.8.2.1.1	Normal operation	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.952.7.12.8.2.1.2	Exceptional procedures	I	
Q.952.7.12.8.2.2	Remote user uses the ECT supplementary service	--	
Q.952.7.12.8.2.2.1	Normal operation	I	
Q.952.7.12.8.2.2.2	Exceptional procedures	--	
Q.952.7.12.8.3	Procedures for interworking with private ISDNs	--	
Q.952.7.12.9	Direct-Dialling-In	--	
Q.952.7.12.10	Call Diversion services	--	
Q.952.7.12.10.1	Call Forwarding Busy	--	
Q.952.7.12.10.2	Call Forwarding No Reply	--	
Q.952.7.12.10.3	Call Forwarding Unconditional	--	
Q.952.7.12.10.4	Call Deflection	--	
Q.952.7.12.11	Line Hunting	--	
Q.952.7.12.12	Three-Party Service	--	
Q.952.7.12.12.1	Coding requirements	--	
Q.952.7.12.12.2	Signalling procedures at the coincident S and T reference point	--	
Q.952.7.12.12.2.1	Transfer of a three-way conversation	--	
Q.952.7.12.12.2.1.1	Normal operation	--	
Q.952.7.12.12.2.1.2	Exceptional procedures	I	
Q.952.7.12.12.3	Procedures for interworking with private ISDNs	NA	
Q.952.7.12.13	User-to-User Signalling	--	
Q.952.7.12.13.1	Service 1	I	Please refer to §Q.957.1.6.2.
Q.952.7.12.13.2	Service 2	I	Please refer to §Q.957.1.6.2.
Q.952.7.12.13.3	Service 3	I	Please refer to §Q.957.1.6.2.
Q.952.7.12.14	Multiple Subscriber Number	--	
Q.952.7.12.15	Call Hold	--	
Q.952.7.12.16	Advice of Charge	--	
Q.952.7.12.16.1	Coding requirements	--	
Q.952.7.12.16.2	Signalling procedures at the coincident S and T reference point	--	
Q.952.7.12.16.2.1	Delivery of charging information to the transferring user	--	
Q.952.7.12.16.2.1.1	Normal procedures	I	
Q.952.7.12.16.2.1.2	Exceptional procedures	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.952.7.12.16.3	Procedures for interworking with private ISDNs	I	
Q.952.7.12.17	Sub-addressing	--	
Q.952.7.12.18	Terminal Portability	--	
Q.952.7.12.18.1	Coding requirements	--	
Q.952.7.12.18.2	Signalling procedures at the coincident S and T reference point	--	
Q.952.7.12.18.2.1	Remote user of the TP supplementary service uses the ECT supplementary service	--	
Q.952.7.12.18.2.1.1	Normal operation	I	
Q.952.7.12.18.2.1.2	Exceptional procedures	--	
Q.952.7.12.18.3	Procedures for interworking with private ISDNs	--	
Q.952.7.12.19	Completion of Calls to Busy Subscribers	--	
Q.952.7.12.20	Malicious Call Identification	--	
Q.952.7.12.20.1	Coding requirements	--	
Q.952.7.12.20.2	Signalling procedures at the coincident S and T reference point	--	
Q.952.7.12.20.2.1	Normal operation	--	
Q.952.7.12.20.2.2	Exceptional procedures	I	
Q.952.7.12.21	Reverse Charging	NU	
Q.952.7.12.21.1	Coding requirements	NU	
Q.952.7.12.21.2	Signalling procedures at the coincident S and T reference point	NU	
Q.952.7.12.21.2.1	Procedures before invocation of call transfer	NU	
Q.952.7.12.21.2.2	Procedures after call transfer	NU	
Q.952.7.12.21.2.2.1	Interaction with REV case A	NU	
Q.952.7.12.21.2.2.2	Interaction with REV case B	NU	
Q.952.7.12.21.2.2.3	Interaction with REV case C	NU	
Q.952.7.12.21.2.2.4	Interaction with REV case D	NU	
Q.952.7.12.21.3	Procedures for interworking with private ISDNs	NU	
Q.952.7.12.21.3.1	Procedures before invocation of call transfer	NU	
Q.952.7.12.21.3.2	Procedures after call transfer	NU	
Q.952.7.12.22	Multi-level Precedence and	NA	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
	Preemption		
Q.952.7.12.23	Support of Private Numbering Plans	NA	
Q.952.7.13	Parameter values (timers)	--	
Q.952.7.14	Dynamic description (SDL diagrams)	--	
Q.952.7.14.1	User side SDL	--	
Q.952.7.14.2	Network side SDL	--	
Q.953.1.	SUPPLEMENTARY SERVICE Call Waiting	--	
Q.953.1.1	Definition	--	
Q.953.1.2	Description	--	
Q.953.1.2.1	General description	--	
Q.953.1.2.2	Specific terminology	--	
Q.953.1.2.3	Qualifications on the applicability of telecommunication services	--	
Q.953.1.2.4	State definitions	--	
Q.953.1.3	Operational requirements	--	
Q.953.1.3.1	Provision/withdrawal	I	*The paragraph is modified as follows:* *This service may be provided by prior arrangement with the administration, or may be available on a general basis.* *Withdrawal shall be at the request of the customer or for administrative reasons.*
Q.953.1.3.2	Requirements on the originating network side	NA	
Q.953.1.3.3	Requirements in the network	NA	
Q.953.1.3.4	Requirements on the terminating network side	NA	
Q.953.1.3.5	Assumptions made about the terminal	--	
Q.953.1.4	Coding requirements	I	*This paragraph is modified as follows* *The notification to the calling party shall be included in the Notification indicator information element specified in Q.931.4.5.22. It shall be coded as shown in table 1.* *Table 1* *7 6 5 4 3 2 1 Meaning* *1 1 0 0 0 0 0 Call is a waiting call*
Q.953.1.4.1	Messages	--	
Q.953.1.4.1.1	ALERTING message	--	
Q.953.1.4.1.2	CALL PROCEEDING message	--	
Q.953.1.4.1.3	CONNECT message	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.953.See	Table 3-5/Q.931.	--	
Q.953.1.4.1.4	CONNECT ACKNOWLEDGE message	--	
Q.953.1.4.1.5	SETUP message	--	
Q.953.1.4.2	Information elements	--	
Q.953.1.4.2.1	Channel identification information element	--	
Q.953.1.4.2.2	Notification indicator	--	
Q.953.1.5	Signalling requirements	--	
Q.953.1.5.1	Activation/deactivation/registration	NA	
Q.953.1.5.2	Invocation and operation	--	
Q.953.1.5.2.1	Normal operation	--	
Q.953.1.5.2.1.1	Actions at the originating exchange	I	
Q.953.1.5.2.1.2	Actions at the transit exchange	NA	
Q.953.1.5.2.1.3	Actions at the destination exchange	--	
Q.953.1.5.2.1.3.1	Invocation of Call Waiting	I	*The ETS 300 058.9.4 is applicable.*
ETS 300 058.9.4	*Call offering*	--	
ETS 300 058.9.4.1	*Normal operation*	*I*	
ETS 300 058.9.4.2	*Exceptional procedures*	*NA*	
Q.953.1.5.2.1.3.2	Notification of Call Waiting	I	*The ETS 300 058.9.5 is applicable.*
ETS 300 058.9.5	*Call confirmation*	--	
ETS 300 058.9.5.1	*Normal operation*	I	
ETS 300 058.9.5.1.1	*Network determined user busy*	I	
ETS 300 058.9.5.1.2	*Subscriber resources in use*	I	
ETS 300 058.9.5.2	*Exceptional procedures*	I	
Q.953.1.5.2.1.3.3	Operation of Call Waiting	I	*The ETS 300 058.9.6 is applicable.*
ETS 300 058.9.6	*Call waiting acceptance*	--	
ETS 300 058.9.6.1	*Normal operation*	*I*	
ETS 300 058.9.6.2	*Exceptional procedures*	*I*	
Q.953.1.5.2.2	Exceptional procedures	I	
Q.953.1.6	Interactions with other supplementary services	--	
Q.953.1.6.1	Call Waiting	NA	
Q.953.1.6.2	Call Transfer	NA	
Q.953.1.6.3	Connected Line Identification Presentation	--	
Q.953.1.6.4	Connected Line Identification Restriction	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.953.1.6.5	Calling Line Identification Presentation	I	
Q.953.1.6.6	Calling Line Identification Restriction	--	
Q.953.1.6.7	Closed User Group	--	
Q.953.1.6.8	Conference Calling	NA	
Q.953.1.6.9	Direct-dialling-In	--	
Q.953.1.6.10	Call Diversion Services	--	
Q.953.1.6.10.1	Call Forwarding Busy	NA	
Q.953.1.6.10.2	Call Forwarding No Reply	NA	
Q.953.1.6.10.3	Call Forwarding Unconditional	NA	
Q.953.1.6.11	Line Hunting	NA	
Q.953.1.6.12	Three-Party Service	NA	
Q.953.1.6.13	User-to-User Signalling	--	
Q.953.1.6.13.1	Service 1	I	
Q.953.1.6.13.2	Service 2	--	
Q.953.1.6.13.3	Service 3	--	
Q.953.1.6.14	Multiple Subscriber Number	--	
Q.953.1.6.15	Call Hold	I	
Q.953.1.6.16	Advice of Charge	NA	
Q.953.1.6.17	Sub-addressing	--	
Q.953.1.6.18	Terminal Portability	--	
Q.953.1.6.19	Call Completion to Busy Subscriber	I	*The ETS 300 195.47 is applicable. Please refer to chapter ETS 300 359.*
Q.953.1.6.20	Malicious Call Identification	NA	
Q.953.1.7	Interactions with other networks	--	
Q.953.1.7.1	Procedures for interworking with private ISDNs	--	
Q.953.1.7.1.1	Served user is on a private ISDN	I	*The following sentences are added:* *The public network shall forward this notification to user C independently of subscription to the CW supplementary service.* *NOTE: During an interim period of time some networks may not support the sending of the notification to the remote user.*
Q.953.1.7.1.2	Calling user is on a private ISDN	I	
Q.953.1.8	Signalling flows	--	*The ETS 300 058.9.6 is used.*
Q.953.1.9	Parameter values (timers)	I	*This paragraph is modified as follows:* *Timer T303 associated with basic call control according to ETS 300 102-1 [4] shall apply.* *NOTE: Timer T303 is identified in the stage one service description by T1.* *The use of timer T-CW is a network option. When used, the value of timer T-CW*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			shall be set by the network as a default value subject to change only by the network. *Alternatively to timer T-CW, timer T301 associated with basic call control according to Q.931 may be used.*
Q.953.1.10	Dynamic description (SDLs)	--	*The following sentences are added:* *Q.931 shall apply, with the exception that timer T301 shall be replaced by timer T-CW, if implemented, when the SETUP message is sent with a "no-channel" condition.*
Q.953.1.10.1	User	--	
Q.953.1.10.2	Network	--	
Q.953.2.	SUPPLEMENTARY SERVICE Call Hold	--	
Q.953.2.1	Definition	--	
Q.953.2.2	Description	--	
Q.953.2.2.1	General description	--	
Q.953.2.2.2	Specific terminology	--	
Q.953.2.2.3	Qualifications on the applicability to telecommunication services	--	
Q.953.2.2.4	State definitions	--	
Q.953.2.3	Operation requirements	--	
Q.953.2.3.1	Provision/withdrawal	--	
Q.953.2.3.1.1	Network option	I	
Q.953.2.3.1.2	Terminal subscription	I	
Q.953.2.3.2	Requirements on the originating network side	NA	
Q.953.2.3.3	Requirements at the terminating network side	NA	
Q.953.2.4	Coding requirements	I	*The following paragraphs are added:* *Table 1 contains the additional codepoints for the HOLD supplementary service which shall be employed in octet 3 of the Notification indicator information element (to be conveyed in the NOTIFY message) for remote hold and remote retrieval.* *Table 1: Additional codepoints in the Notification indicator information element* *7 6 5 4 3 2 1 Meaning* *1 1 1 1 0 0 1 Remote hold* *1 1 1 1 0 1 0 Remote retrievial*
Q.953.2.5	Signalling requirements	--	
Q.953.2.5.1	Activation/deactivation/registration	I	
Q.953.2.5.2	Invocation and operation	--	
Q.953.2.5.2.1	Procedures at the originating	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
	interface		
Q.953.2.5.2.1.1	Call Hold normal operation	I	
Q.953.2.5.2.1.1.1	Holding a call before the A-B call is active	--	
Q.953.2.5.2.1.1.1.1	Holding a call after receiving a CALL PROCEEDING message (by calling user A) (U3)	I	
Q.953.2.5.2.1.1.1.2	Holding a call after receiving an ALERTING message	I	
Q.953.2.5.2.1.1.2	Holding a call once the A-B call is active	I	
Q.953.2.5.2.1.1.3	Clearing a held call	I	
Q.953.2.5.2.1.1.3.1	Clearing a held call by user A	I	
Q.953.2.5.2.1.1.3.2	Clearing a held call by service provider A	I	
Q.953.2.5.2.1.1.4	Operations available with call(s) on hold	I	
Q.953.2.5.2.1.2	Call Hold exceptional procedures	I	
Q.953.2.5.2.1.3	Call retrieve normal procedures	I	
Q.953.2.5.2.1.4	Call retrieve exceptional procedures	I	
Q.953.2.5.2.2	Procedures at the transit exchange	NA	
Q.953.2.5.2.3	Procedures at the destination user-network interface	--	
Q.953.2.6	Interactions with other supplementary services	--	
Q.953.2.6.1	Call Waiting	--	
Q.953.2.6.2	Call Transfer	--	
Q.953.2.6.3	Connected Line Identification Presentation	--	
Q.953.2.6.4	Connected Line Identification Restriction	--	
Q.953.2.6.5	Calling Line Identification Presentation	--	
Q.953.2.6.6	Calling Line Identification Restriction	--	
Q.953.2.6.7	Closed User Group	--	
Q.953.2.6.8	Conference Calling	I	
Q.953.2.6.9	Direct-Dialling-In	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.953.2.6.10	Call forwarding services	--	
Q.953.2.6.11	Line Hunting	--	
Q.953.2.6.12	Three-Party-Service	I	
Q.953.2.6.13	User-to-User Signalling	--	
Q.953.2.6.13.1	Service 1	--	
Q.953.2.6.13.2	Service 2	--	
Q.953.2.6.13.3	Service 3	--	
Q.953.2.6.14	Multiple Subscriber Number	--	
Q.953.2.6.15	Call Hold service	NA	
Q.953.2.6.16	Advice of Charge	--	
Q.953.2.6.17	Sub-addressing	--	
Q.953.2.6.18	Terminal Portability	I	*The ETS 300 195.31 is applicable.*
ETS 300 195.5.31	*The HOLD and TP supplementary services*	--	
ETS 300 195.5.31.1	*Coding requirements*	--	
ETS 300 195.5.31.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.31.2.1	*Served user of the HOLD supplementary service uses the TP supplementary service*	--	
ETS 300 195.5.31.2.1.1	*Normal operation*	--	
ETS 300 195.5.31.2.1.2	*Exceptional procedures*	*I*	
ETS 300 195.5.31.2.2	*Remote user of the HOLD supplementary service uses the TP supplementary service*	--	
ETS 300 195.5.31.2.3	*Remote user of the TP supplementary service uses the HOLD supplementary service*	--	
ETS 300 195.5.31.2.3.1	*Normal operation*	*I*	
ETS 300 195.5.31.2.3.2	*Exceptional procedures*	--	
ETS 300 195.5.31.3	*Procedures for interworking with private ISDNs*	--	
Q.953.2.6.19	Completion of Calls to Busy Subscriber	--	
Q.953.2.6.20	Malicious Call Identification	--	
Q.953.2.6.21	Reverse Charging	NA	
Q.953.2.6.22	Multilevel Precedence and Preemption	NA	
Q.953.2.7	Interactions with other networks	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.953.2.7.1	Interworking with public ISDNs	I	
Q.953.2.7.2	Interworking with private ISDNs	I	*The ETS 300 141.10 is applicable.*
ETS 300 141.10	*Procedures for interworking with private ISDNs*	--	
ETS 300 141.10.1	*User A is on a private ISDN*	--	
ETS 300 141.10.1.1	*Normal operation*	*I*	
ETS 300 141.10.1.2	*Exceptional procedures*	*I*	HOLD and RETRIEVE messages received by the network are rejected by sending HOLD REJECT and RETRIEVE REJECT.
ETS 300 141.10.2	*User B is on a private ISDN*	--	
ETS 300 141.10.2.1	*Normal operation*	*I*	
ETS 300 141.10.2.2	*Exceptional procedures*	*I*	
Q.953.2.8	Signalling flows	--	*The ETS 300 141 Annex A is used.*
Q.953.2.9	Parameter values (timers)	I	
Q.953.2.10	Dynamic description	--	
ETS.300 359 *iso* Q.953.3	SUPPLEMENTARY SERVICE Call Completion to Busy Subscriber	--	*The ETS 300 359 is applicable, because no ITU-T Recommendation exists.*
ETS.300 359.	*Foreword*	--	
ETS.300 359.1	*Scope*	--	
ETS.300 359.2	*Normative references*	--	
ETS.300 359.3	*Definitions*	--	
ETS.300 359.4	*Symbols and abbreviations*	--	
ETS.300 359.5	*Description.*	--	
ETS.300 359.6	*Operational requirements*	--	
ETS.300 359.6.1	*Provision and withdrawal*	*I*	The network option to offer CCBS with the subscription option to set the recall mode to ‘CCBS recall offered to all compatible terminals’ is not supported.
ETS.300 359.6.2	*Requirements on the network A side*	*I*	
ETS.300 359.6.3	*Requirements on the network B side*	*I*	
ETS.300 359.7	*Coding requirements*	*I*	
ETS.300 359.8	*State definitions*	--	
ETS.300 359.8.1	*User A states*	*I*	
ETS.300 359.8.2	*User B states*	--	
ETS.300 359.8.3	*Network A states*	*I*	
ETS.300 359.8.4	*Network B states*	*I*	
ETS.300 359.9	*Signalling procedures at the coincident S and T reference point*	--	
ETS.300 359.9.1	*Activation*	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS.300 359.9.1.1	*Normal operation*	*I*	
ETS.300 359.9.1.2	*Exceptional procedures*	*I*	*Eighth paragraph: The CCBSRequest return error 'supplementary ServiceInteractionNotAllowed' is not applicable.*
ETS.300 359.9.2	*User initiated deactivation procedure*	*--*	
ETS.300 359.9.2.1	*Normal operation*	*I*	
ETS.300 359.9.2.2	*Exceptional procedures*	*I*	*First paragraph:* *replace 'or user A has not subscribed to the CCBS supplementary service' by 'including the case where user A has not subscribed at the moment of the CCBS activation'.* *Remark:* *The ETSI text for this paragraph is not very exact, because it is not clear at which time the CCBS subscription has to be checked. As the used return error is 'invalid CCBS reference' and a return error 'not subscribed' is not defined it is assumed that only the CCBS subscription at the time when CCBS was activated is relevant.*
ETS.300 359.9.3	*Interrogation*	*--*	
ETS.300 359.9.3.1	*General interrogation*	*--*	
ETS.300 359.9.3.1.1	*Normal operation*	*I*	*First paragraph:* *The term 'all CCBS requests' is interpreted as follows: 'all CCBS requests which have been answered with a CCBSRequest return result.*
ETS.300 359.9.3.1.2	*Exceptional procedures*	*I*	
ETS.300 359.9.3.2	*Specific interrogation*	*--*	
ETS.300 359.9.3.2.1	*Normal operation*	*I*	
ETS.300 359.9.3.2.2	*Exceptional procedures*	*I*	
ETS.300 359.9.4	*Invocation and operation*	*--*	
ETS.300 359.9.4.1	*Recall indication*	*--*	
ETS.300 359.9.4.1.1	*Normal operation*	*I*	
ETS.300 359.9.4.1.2	*Exceptional procedures*	*I*	
ETS.300 359.9.4.2	*CCBS call request*	*--*	
ETS.300 359.9.4.2.1	*Normal operation*	*I*	
ETS.300 359.9.4.2.2	*Exceptional procedures*	*I*	
ETS.300 359.9.4.3	*CCBS call establishment*	*--*	
ETS.300 359.9.4.3.1	*Normal operation*	*I*	
ETS.300 359.9.4.3.2	*Exceptional procedures*	*I*	
ETS.300 359.9.4.4	*Network initiated deactivation procedures*	*--*	
ETS.300 359.9.4.4.1	*Normal operation*	*I*	
ETS.300 359.9.4.4.2	*Exceptional procedures*	*NA*	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS.300 359.9.4.5	*B free but A busy procedure*	--	
ETS.300 359.9.4.5.1	*Normal operation*	*I*	
ETS.300 359.9.4.5.2	*Exceptional procedures*	*I*	
ETS.300 359.9.4.6	*User A monitoring procedure*	--	
ETS.300 359.9.4.6.1	*Normal operation*	*I*	
ETS.300 359.9.4.6.2	*Exceptional procedures*	*I*	
ETS.300 359.9.5	*Procedures at network B*	--	
ETS.300 359.9.5.1	*Determination that CCBS is available*	--	
ETS.300 359.9.5.1.1	*Normal operation*	*I*	
ETS.300 359.9.5.1.2	*Exceptional procedures*	*NA*	
ETS.300 359.9.5.2	*Acceptance of a CCBS request*	--	
ETS.300 359.9.5.2.1	*Normal operation*	*I*	
ETS.300 359.9.5.2.2	*Exceptional procedures*	*I*	
ETS.300 359.9.5.3	*Queue B processing*	--	
ETS.300 359.9.5.3.1	*Normal operation*	*I*	
ETS.300 359.9.5.3.2	*Exceptional procedures*	*NA*	
ETS.300 359.9.5.4	*Determination of user B free*	--	
ETS.300 359.9.5.4.1	*Normal operation*	*I*	
ETS.300 359.9.5.4.2	*Exceptional procedures*	*I*	
ETS.300 359.9.5.5	*CCBS call*	--	
ETS.300 359.9.5.5.1	*Normal operation*	*I*	
ETS.300 359.9.5.5.2	*Exceptional procedures*	*I*	
ETS.300 359.9.6	*Call information retention*	--	
ETS.300 359.9.6.1	*Normal operation*	*I*	
ETS.300 359.9.6.2	*Exceptional procedures*	*I*	*The implementation option to stop timer T-RETENTION on receiving a reject component to the CallInfoRetain invoke component is not supported.*
ETS.300 359.9.7	*Basic call information and compatibility checking at user A*	--	
ETS.300 359.9.7.1	*Normal operation*	*I*	
ETS.300 359.9.7.2	*Exceptional procedures*	*NA*	
ETS.300 359.10	*Procedures for interworking with private ISDNs*	--	
ETS.300 359.10.1	*Procedures for the originating T reference point*	--	
ETS.300 359.10.1.1	*CCBS available indication*	--	
ETS.300 359.10.1.1.1	*Normal operation*	*I*	
ETS.300 359.10.1.1.2	*Exceptional procedures*	*NA*	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS.300 359.10.1.2	*CCBS supplementary service request*	--	
ETS.300 359.10.1.2.1	*Normal operation*	*I*	*Note 1: The functionality of timer T-CCBS6 is provided according to the timer Tsup specified in the ISUP ETS.* *Note 2: The optional parameters*
ETS.300 359.10.1.2.2	*Exceptional procedures*	*I*	
ETS.300 359.10.1.3	*User B free indication*	--	
ETS.300 359.10.1.3.1	*Normal operation*	*I*	
ETS.300 359.10.1.3.2	*Exceptional procedures*	*I*	
ETS.300 359.10.1.4	*Suspend request*	--	
ETS.300 359.10.1.4.1	*Normal operation*	*I*	
ETS.300 359.10.1.4.2	*Exceptional procedures*	*I*	
ETS.300 359.10.1.5	*Resume request*	--	
ETS.300 359.10.1.5.1	*Normal operation*	*I*	
ETS.300 359.10.1.5.2	*Exceptional procedures*	*I*	
ETS.300 359.10.1.6	*CCBS call establishment*	--	
ETS.300 359.10.1.6.1	*Normal operation*	*I*	
ETS.300 359.10.1.6.2	*Exceptional procedures*	*I*	
ETS.300 359.10.1.7	*Deactivation*	--	
ETS.300 359.10.1.7.1	*Normal operation*	*I*	
ETS.300 359.10.1.7.2	*Exceptional procedures*	*NA*	
ETS.300 359.10.2	*Procedures for the destination T reference point*	--	
ETS.300 359.10.2.1	*CCBS available indication*	--	*A CCBS possible condition exists only if the CCBS-T-Available invoke component has been received together with cause #17 and #34. A CCBS-T-Available invoke component which is received in connection with other causes will be ignored.*
ETS.300 359.10.2.1.1	*Normal operation*	*I*	*Note 1: The functionality of timer T-CCBS5 is provided according to the timer Tsup specified in the ISUP ETS.*
ETS.300 359.10.2.1.2	*Exceptional procedures*	*NA*	
ETS.300 359.10.2.2	*CCBS supplementary service request*	--	
ETS.300 359.10.2.2.1	*Normal operation*	*I*	*Timer T-CCBS5 is started on receiving the CCBS-T-Request return result component.*
ETS.300 359.10.2.2.2	*Exceptional procedures*	*I*	
ETS.300 359.10.2.3	*User B free indication*	--	
ETS.300 359.10.2.3.1	*Normal operation*	*I*	
ETS.300 359.10.2.3.2	*Exceptional procedures*	*I*	
ETS.300 359.10.2.4	*Suspend request*	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS.300 359.10.2.4.1	*Normal operation*	*I*	
ETS.300 359.10.2.4.2	*Exceptional procedures*	*I*	
ETS.300 359.10.2.5	*Resume request*	--	
ETS.300 359.10.2.5.1	*Normal operation*	*I*	
ETS.300 359.10.2.5.2	*Exceptional procedures*	*I*	
ETS.300 359.10.2.6	*CCBS call establishment*	--	
ETS.300 359.10.2.6.1	*Normal operation*	*I*	
ETS.300 359.10.2.6.2	*Exceptional procedures*	*I*	
ETS.300 359.10.2.7	*Deactivation*	--	
ETS.300 359.10.2.7.1	*Normal operation*	*I*	
ETS.300 359.10.2.7.2	*Exceptional procedures*	*I*	
ETS.300 359.11	*Interactions with other networks*	*I*	
ETS.300 359.12	*Interactions with other supplementary services*	*I*	*The ETS 300 195 is applicable.*
ETS 300 195.5.37	*The CCBS and UUS supplementary services*		
ETS 300 195.5.37.1	*Coding requirements*		
ETS 300 195.5.37.2	*Signalling procedures at the coincident S and T reference point*		
ETS 300 195.5.37.2.1	*Normal operation*	*I*	
ETS 300 195.5.37.2.2	*Exceptional procedures*	--	
ETS 300 195.5.37.3	*Procedures for interworking with private ISDNs*	*I*	
ETS 300 195.5.38	*The CCBS and CLIP supplementary services*	--	
ETS 300 195.5.38.1	*Coding requirements*	--	
ETS 300 195.5.38.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.38.2.1	*Normal operation*	*I*	
ETS 300 195.5.38.2.2	*Exceptional procedures*	*I*	
ETS 300 195.5.38.3	*Procedures for interworking with private ISDNs*	--	*CLIP for the CCBS request in case of interworking with private ISDNs is not supported, i.e., the network option to support the originatingAddress in the CCBS-T-Request invoke component is not supported. A received originatingAddress and presentationAllowedIndicator parameter in the CCBS-T-Request invoke component will be discarded.*
ETS 300 195.5.38.3.1	*Procedures for the originating T reference point*	--	
ETS 300 195.5.38.3.1.1	*Normal operation*	*I*	
ETS 300 195.5.38.3.1.2	*Exceptional procedures*	NA	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 195.5.38.3.2	*Procedures for the destination T reference point*	--	
ETS 300 195.5.38.3.2.1	*Normal operation*	*I*	
ETS 300 195.5.38.3.2.2	*Exceptional procedures*	NA	
ETS 300 195.5.39	*The CCBS and CLIR supplementary services*	--	
ETS 300 195.5.39.1	*Coding requirements*	--	
ETS 300 195.5.39.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.39.2.1	*Normal operation*	*I*	
ETS 300 195.5.39.2.2	*Exceptional procedures*	NA	
ETS 300 195.5.39.3	*Procedures for interworking with private ISDNs*	--	*CLIR for the CCBS request in case of interworking with private ISDNs is not supported, see exception on CLIP and CCBS.*
ETS 300 195.5.39.3.1	*Procedures for the originating T reference point*	--	
ETS 300 195.5.39.3.1.1	*Normal operation*	*I*	
ETS 300 195.5.39.3.1.2	*Exceptional procedures*	NA	
ETS 300 195.5.39.3.2	*Procedures for the destination T reference point*	--	
ETS 300 195.5.39.3.2.1	*Normal operation*	*I*	
ETS 300 195.5.39.3.2.2	*Exceptional procedures*	NA	
ETS 300 195.5.40	*The CCBS and CUG supplementary services*	--	
ETS 300 195.5.40.1	*Coding requirements*	--	
ETS 300 195.5.40.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.40.2.1	*Normal operation*	*I*	
ETS 300 195.5.40.2.2	*Exceptional procedures*	*I*	
ETS 300 195.5.40.3	*Procedures for interworking with private ISDNs*	--	
ETS 300 195.5.40.3.1	*Procedure for the originating T reference point*	--	
ETS 300 195.5.40.3.1.1	*Normal operation*	*I*	
ETS 300 195.5.40.3.1.2	*Exceptional procedures*	--	
ETS 300 195.5.40.3.2	*Procedures for the destination T reference point*	--	
ETS 300 195.5.41	*The CCBS and MSN supplementary services*	--	
ETS 300 195.5.41.1	*Coding requirements*	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 195.5.41.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.41.2.1	*Procedures for the originating network*	--	
ETS 300 195.5.41.2.1.1	*Normal operation*	*I*	
ETS 300 195.5.41.2.1.2	*Exceptional procedures*	*I*	
ETS 300 195.5.41.2.2	*Procedures for the remote network*	--	
ETS 300 195.5.41.2.2.1	*Normal operation*	*I*	
ETS 300 195.5.41.2.2.2	*Exceptional procedures*	--	
ETS 300 195.5.41.3	*Procedures for interworking with private ISDNs*	--	
ETS 300 195.5.42	*The CCBS and SUB supplementary services*	--	
ETS 300 195.5.42.1	*Coding requirements*	--	
ETS 300 195.5.42.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.42.2.1	*Normal operation*	*I*	
ETS 300 195.5.42.2.2	*Exceptional procedures*	--	
ETS 300 195.5.42.3	*Procedures for interworking with private ISDNs*	--	
ETS 300 195.5.47	*The CCBS and CW supplementary services*	--	
ETS 300 195.5.47.1	*Coding requirements*	--	
ETS 300 195.5.47.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.47.2.1	*Normal operation*	*I*	
ETS 300 195.5.47.2.2	*Exceptional procedures*	*I*	
ETS 300 195.5.47.3	*Procedures for interworking with private ISDNs*	--	
ETS.300 359.13	*Parameter values (timers)*	*I*	
ETS.300 359.14	*Dynamic description (SDL diagrams)*	--	
ETS.300 359.A	*Annex A (informative): CCBS signalling flows*	--	
ETS.300 359.B	*Annex B (normative): Provision of status request procedures*	*I*	
ETS.300 359.C	*Annex C (informative): Assignment of object identifier values*	--	
ETS.300 359.H	*History*	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.953.4	SUPPLEMENTARY SERVICE Terminal Portability	--	
Q.953.4.1	Scope	--	
Q.953.4.2	References	--	
Q.953.4.3	Definitions	--	
Q.953.4.4	Abbreviations	--	
Q.953.4.5	Description	--	
Q.953.4.6	Operational requirements	--	
Q.953.4.6.1	Provision/withdrawal	I	
Q.953.4.6.2	Requirements on the originating network side	I	
Q.953.4.6.3	Requirements on the destination network side	I	
Q.953.4.7	Coding requirements	I	According to the stage 1 description the call ID is limited to 2 characters. An exceeding length up to 8 octets is accepted according to Q.931.
Q.953.4.8	State definitions	I	
Q.953.4.9	Signalling procedures at the coincident S and T reference point	--	
Q.953.4.9.1	Invocation and operation	--	
Q.953.4.9.1.1	Normal operation	I	
Q.953.4.9.1.2	Exceptional procedures	I	
Q.953.4.10	Procedures for interworking with private ISDNs	I	
Q.953.4.11	Interaction with other networks	--	
Q.953.4.11.1	Interactions with non-ISDNs	--	
Q.953.4.12	Interaction with other supplementary services	--	
Q.953.4.12.1	Call Waiting	--	
Q.953.4.12.2	Explicit Call Transfer	NA	
Q.953.4.12.3	Connected Line Identification Presentation	--	
Q.953.4.12.4	Connected Line Identification Restriction	--	
Q.953.4.12.5	Calling Line Identification Presentation	--	
Q.953.4.12.6	Calling Line Identification Restriction	--	
Q.953.4.12.7	Closed User Group	--	
Q.953.4.12.8	Conference Calling	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.953.4.12.8.1	The served user of the Conference supplementary service uses the TP supplementary service	--	
Q.953.4.12.8.1.1	Normal operation	--	
Q.953.4.12.8.1.2	Exceptional procedures	I	
Q.953.4.12.8.2	The remote user of the Conference supplementary service uses the TP supplementary service	--	
Q.953.4.12.8.2.1	Normal operation	I	
Q.953.4.12.8.2.2	Exceptional procedures	--	
Q.953.4.12.9	Direct-Dialling-In	--	
Q.953.4.12.10	Call Diversion (Call Forwarding) services	--	
Q.953.4.12.10.1	Call Forwarding Busy	--	
Q.953.4.12.10.2	Call Forwarding No Reply	--	
Q.953.4.12.10.3	Call Forwarding Unconditional	--	
Q.953.4.12.10.4	Call Deflection	--	
Q.953.4.12.11	Line Hunting	--	
Q.953.4.12.12	Three-Party service	--	
Q.953.4.12.12.1	The served user of the Three-Party supplementary service uses the TP supplementary service	--	
Q.953.4.12.12.1.1	Normal operation	--	
Q.953.4.12.12.1.2	Exceptional procedures	I	
Q.953.4.12.12.2	The remote user of the Three-Party supplementary service uses the TP supplementary service	--	
Q.953.4.12.12.2.1	Normal operation	I	
Q.953.4.12.12.2.2	Exceptional procedures	--	
Q.953.4.12.13	User-to-User Signalling	--	
Q.953.4.12.13.1	Service 1	--	
Q.953.4.12.13.2	Service 2	--	
Q.953.4.12.13.3	Service 3	--	
Q.953.4.12.14	Multiple Subscriber Number	--	
Q.953.4.12.15	Call Hold	--	
Q.953.4.12.15.1	The served user of the Call Hold supplementary service uses the TP supplementary service	--	
Q.953.4.12.15.1.1	Normal operation	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.953.4.12.15.1.2	Exceptional procedures	I	
Q.953.4.12.15.2	Remote user of the HOLD supplementary service uses the TP supplementary service	--	
Q.953.4.12.16	Advice Of Charge	--	
Q.953.4.12.17	Sub-addressing	--	
Q.953.4.12.18	Terminal Portability	NA	
Q.953.4.12.19	Completion of Calls to Busy Subscriber	NA	
Q.953.4.12.20	Malicious Call Identification	--	
Q.953.4.12.21	Reverse Charging	NA	
Q.953.4.12.22	Multi-level Precedence and Preemption	NA	
Q.953.4.12.23	Support of Private Numbering Plans	NA	
Q.953.4.12.24	International Telecommunication Charge Card	NA	
Q.953.4.12.25	Global virtual network services	NA	
Q.953.4.13	Parameter values (timers)	I	
Q.953.4.14	Dynamic description (SDLs)	--	
Q.954_1	SUPPLEMENTARY SERVICES SECTION 1 – Conference Calling SECTION 2 – Three-Party Service	--	
Q.954.1	SUPPLEMENTARY SERVICE Conference calling	--	
Q.954.1.1	Definition	--	
Q.954.1.2	Description	--	
Q.954.1.2.1	General description	--	
Q.954.1.2.2	Specific terminology	--	
Q.954.1.2.2.1	User	--	
Q.954.1.2.2.2	Network	--	
Q.954.1.2.2.3	Served user	--	
Q.954.1.2.2.4	Remote user	--	
Q.954.1.2.2.5	Isolate	--	
Q.954.1.2.2.6	Reattach	--	
Q.954.1.2.2.7	Split	--	
Q.954.1.2.2.8	Drop	--	
Q.954.1.2.2.9	Floating	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.954.1.2.2.10	Conference ID	--	
Q.954.1.2.2.11	Party ID	--	
Q.954.1.2.2.12	Invoke component	--	
Q.954.1.2.2.13	Return result component	--	
Q.954.1.2.2.14	Return error component	--	
Q.954.1.2.3	Qualification on the applicability to telecommunication services	--	
Q.954.1.2.4	State definitions	--	
Q.954.1.3	Operational requirements	--	
Q.954.1.3.1	Provision and withdrawal	NA	
Q.954.1.3.2	Requirements on the originating network side	NA	
Q.954.1.3.3	Requirements on the destination network side	NA	
Q.954.1.4	Coding requirements	I	*In Table 1-1/Q.954, following values is deleted from EXPORTS: FloatCONF, EndCONF*
Q.954.1.5	Signalling requirements	--	
Q.954.1.5.1	Activation, deactivation and registration	NA	
Q.954.1.5.2	Invocation and operation	--	
Q.954.1.5.2.1	Beginning the conference from the idle state	--	
Q.954.1.5.2.1.1	Normal operation	I	
Q.954.1.5.2.1.2	Exceptional procedures	I	
Q.954.1.5.2.2	Beginning the conference from an active call	--	
Q.954.1.5.2.2.1	Normal operation	I	
Q.954.1.5.2.2.2	Exceptional procedure	I	
Q.954.1.5.2.3	Adding a party	--	
Q.954.1.5.2.3.1	Normal operation	I	
Q.954.1.5.2.3.2	Exceptional procedures	I	
Q.954.1.5.2.4	Isolate a party	--	
Q.954.1.5.2.4.1	Normal operation	I	
Q.954.1.5.2.4.2	Exceptional procedures	I	
Q.954.1.5.2.5	Reattach a party	--	
Q.954.1.5.2.5.1	Normal operation	I	
Q.954.1.5.2.5.2	Exceptional procedures	I	
Q.954.1.5.2.6	Splitting a party	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.954.1.5.2.6.1	Normal operation	I	
Q.954.1.5.2.6.2	Exceptional procedures	I	If splitting is not successful due to other reasons than stated, the network will use the return error 'notAvailable'.
Q.954.1.5.2.7	Disconnect a party	--	
Q.954.1.5.2.7.1	Normal operation	I	
Q.954.1.5.2.7.2	Exceptional procedures	I	
Q.954.1.5.2.8	Terminate the conference	--	
Q.954.1.5.2.8.1	Normal operation	I	*To terminate the conference, the served user shall clear the connection to the network by using the basic call clearing procedures according to §Q.931.5.3.3* *On sending or receiving the RELEASE COMPLETE message associated with clearing the connection, the user shall release the PartyId associated with each remote user, and shall release the ConferenceId associated with the clearing of the connection.* *On receiving the DISCONNECT message, the network shall make the conference unavailable, i.e. all subsequent operations invoked for this conference by the user shall be responded to with the appropriate return error component specifying "notActive" or "IllConferenceId" depending on the operation requested.* *On sending or receiving the RELEASE COMPLETE message associated with clearing the connection, the network shall release the PartyId associated with each remote user, and shall release the ConferenceId associated with the clearing of the connection. The ConferenceId shall be available for re-use on other conferences.*
Q.954.1.5.2.8.2	Exceptional procedures	I	*If the connection between the served user and the network is cleared for some reason, then the conference shall be terminated.*
Q.954.1.5.2.9	Disconnect the served user	--	
Q.954.1.5.2.9.1	Normal operation	NU	
Q.954.1.5.2.9.2	Exceptional procedures	NU	
Q.954.1.5.2.10	Call clearing by served user	--	
Q.954.1.5.2.10.1	Normal operation	NU	
Q.954.1.5.2.10.2	Exceptional procedures	NU	
Q.954.1.6	Interactions with other supplementary services	--	
Q.954.1.6.1	Call Waiting	--	
Q.954.1.6.2	Call Transfer	--	
Q.954.1.6.3	Connected Line Identification Presentation	--	
Q.954.1.6.4	Connected Line Identification Restriction	--	
Q.954.1.6.5	Calling Line Identification Presentation	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.954.1.6.6	Calling Line Identification Restriction	--	
Q.954.1.6.7	Closed User Group	I	*The ETS 300 195.5.12 is applicable.*
ETS 300 195.5.12	*The CONF and CUG supplementary service*	--	
ETS 300 195.5.12.1	*Coding requirements*	--	
ETS 300 195.5.12.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.12.2.1	*Adding a call*	--	
ETS 300 195.5.12.2.1.1	*Normal operation*	--	
ETS 300 195.5.12.2.1.2	*Exceptional procedures*	I	
ETS 300 195.5.12.3	*Procedures for interworking with private ISDNs*	I	
Q.954.1.6.8	Conference	--	*The ETS 300 195.5.13 is applicable.*
Q.954.1.6.8.1	Conference Call Add-on	NA	
Q.954.1.6.8.2	Meet-me Conference	NA	
ETS 300 195.5.13	*The CONF and CONF supplementary services*	--	
ETS 300 195.5.13.1	*Coding requirements*	--	
ETS 300 195.5.13.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.13.2.1	*Re-invoking the CONF supplementary service*	--	
ETS 300 195.5.13.2.1.1	*Normal operation*	--	
ETS 300 195.5.13.2.1.2	*Exceptional procedures*	*I*	
ETS 300 195.5.13.2.2	*Adding a conference call to a conference*	--	
ETS 300 195.5.13.2.2.1	*Normal operation*	--	
ETS 300 195.5.13.2.2.2	*Exceptional procedures*	*I*	
ETS 300 195.5.13.2.3	*Notification of the served user*	--	
ETS 300 195.5.13.2.3.1	*Normal procedures*	*I*	
ETS 300 195.5.13.2.3.2	*Exceptional procedures*	--	
ETS 300 195.5.13.3	*Procedures for interworking with private ISDNs*	*I*	
Q.954.1.6.9	Direct-dialling-in	--	
Q.954.1.6.10	Call diversion (call forwarding) services	--	
Q.954.1.6.10.1	Call Forwarding Busy	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.954.1.6.10.2	Call Forwarding No Reply	--	
Q.954.1.6.10.3	Call Forwarding Unconditional	--	
Q.954.1.6.10.4	Call Deflection	--	
Q.954.1.6.11	User-to-User Signalling	--	
Q.954.1.6.11.1	Service 1	--	
Q.954.1.6.11.2	Service 2	--	
Q.954.1.6.11.3	Service 3	--	
Q.954.1.6.11.3.1	Service 3 activation	I	
Q.954.1.6.11.3.2	Transfer of USER INFORMATION messages	I	*The last three paragraphs are replaced as follows:* *If the served user sends a USER INFORMATION message to the network without the above mentioned Facility information element, the network shall treat this as a request for the broadcast capability and shall send a USER INFORMATION message to each individual remote user.* *If a remote user is isolated, individual exchange of USER INFORMATION messages can be performed between that remote user and the served user provided service 3 is activated for that remote user. In case of broadcast sending from the served user, the isolated remote user shall not receive USER INFORMATION messages.* *If private communication is created with a remote user, the exchange of USER INFORMATION messages shall be as described in §q.957.9.3.2. The broadcast capability is not applicable.* *Following Flow Control in Normal operation paragraph are added:* *For the sending of USER INFORMATION messages from the served user, the flow control procedures described in §Q.957.9.3.3 shall apply for the conference controller's connection to the conference. Consequently, the served user can send up to the maximum limit of USER INFORMATION messages to the remote users in common, including broadcast sending.* *Since more than one remote user can send USER INFORMATION messages to the conference controller at the same time, the normal maximum limit can be exceeded at the served user's network side. In this case, the network shall deliver the received USER INFORMATION messages to the served user without any restrictions.* *Normal flow control procedures shall be followed at the remote user's network.*
Q.954.1.6.12	Line Hunting	--	
Q.954.1.6.13	Three-Party Service	I	*Please refer to §Q.952.7.12.12*
Q.954.1.6.16	Advice of Charge	--	
Q.954.1.6.17	Sub-addressing	--	
Q.954.1.6.18	Terminal Portability	*I*	*The ETS 300 195.5.14 is applicable.*
ETS 300 195.5.14	*The CONF and TP supplementary services*	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 195.5.14.1	*Coding requirements*	*I*	
ETS 300 195.5.14.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.14.2.1	*Served user of CONF supplementary service uses TP supplementary service*	--	
ETS 300 195.5.14.2.1.1	*Normal operation*	--	
ETS 300 195.5.14.2.1.2	*Exceptional procedures*	*I*	
ETS 300 195.5.14.2.2	*Remote user of CONF supplementary service uses TP supplementary service*	--	
ETS 300 195.5.14.2.2.1	*Normal operation*	*I*	
ETS 300 195.5.14.2.2.2	*Exceptional procedures*	--	
ETS 300 195.5.14.2.3	*Remote user of the TP supplementary service uses the CONF supplementary service*	--	
ETS 300 195.5.14.2.3.1	*Normal operation*	*I*	
ETS 300 195.5.14.2.3.2	*Exceptional procedures*	--	
Q.954.1.6.19	Completion of Calls to Busy Subscriber	--	
Q.954.1.6.20	Malicious Call Identification	*I*	*The ETS 300 195.5.46 is applicable.*
ETS 300 195.5.46	*The CONF and MCID supplementary services*	--	
ETS 300 195.5.46.1	*Coding requirements*	--	
ETS 300 195.5.46.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.46.2.1	*Normal operation*	--	
ETS 300 195.5.46.2.2	*Exceptional procedures*	*I*	
ETS 300 195.5.46.3	*Procedures for interworking with private ISDNs*	*I*	
Q.954.1.6.21	Reverse Charging	NA	
Q.954.1.6.22	Multi-Level Precedence and Preemption	NA	
Q.954.1.7	Interactions with other networks	--	
Q.954.1.7.1	Interactions with non-ISDNs	--	
Q.954.1.7.2	Procedures for interworking with private ISDNs	I	*Please refer to ETS 300 195.* The procedures for the served user are only supported if the calls involved use the same access (BA or PRA). Requests for the CONF supplementary service in other configurations are rejected.

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.954.1.8	Signalling flows	--	
Q.954.1.9	Parameter values	--	
Q.954.1.10	Dynamic description (SDLs)	--	
Q.954_2	SUPPLEMENTARY SERVICE Three-Party Service	--	
Q.954.2.1	Scope	--	
Q.954.2.2	References	--	
Q.954.2.3	Definitions	--	
Q.954.2.4	Abbreviations	--	
Q.954.2.5	Description	--	
Q.954.2.6	Operational requirements	--	
Q.954.2.6.1	Provision and withdrawal	I	
Q.954.2.6.2	Requirements on the originating network side	I	
Q.954.2.6.3	Requirements on the destination network side	I	
Q.954.2.7	Coding requirements	--	
Q.954.2.7.1	Coding of the Facility information element components	I	
Q.954.2.7.2	Coding of the Notification indicator information element	I	
Q.954.2.8	State definitions	I	
Q.954.2.9	Signalling requirements	--	
Q.954.2.9.1	Activation, deactivation and registration	NA	
Q.954.2.9.2	Invocation and operation	--	
Q.954.2.9.2.1	Request for a three-way conversation	--	
Q.954.2.9.2.1.1	Normal operation	I	
Q.954.2.9.2.1.2	Exceptional procedures	I	
Q.954.2.9.2.2	Disconnection of one remote user, and retention of the other	--	
Q.954.2.9.2.2.1	Normal operation	I	
Q.954.2.9.2.2.2	Exceptional procedures	I	
Q.954.2.9.2.3	Disconnection of both remote users, and terminating the call	--	
Q.954.2.9.2.3.1	Normal operation	I	
Q.954.2.9.2.3.2	Exceptional procedures	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.954.2.9.2.4	Creation of a private communication with a remote user	--	
Q.954.2.9.2.4.1	Normal operation	I	
Q.954.2.9.2.4.2	Exceptional procedures	I	
Q.954.2.9.2.5	Remote user terminates the call	--	
Q.954.2.9.2.5.1	Normal operation	I	
Q.954.2.9.2.5.2	Exceptional procedures	I	
Q.954.2.10	Procedures for interworking with private ISDN's	I	
Q.954.2.11	Interactions with other networks	I	
Q.954.2.12	Interactions with other supplementary services	--	
Q.954.2.12.1	Call Waiting	--	
Q.954.2.12.2	Explicit Call Transfer	I	*Please refer to §Q.952.7.12.12*
Q.954.2.12.3	Connected Line Identification Presentation	--	
Q.954.2.12.4	Connected Line Identification Restriction	--	
Q.954.2.12.5	Calling Line Identification Presentation	--	
Q.954.2.12.6	Calling Line Identification Restriction	--	
Q.954.2.12.7	Closed User Group	--	
Q.954.2.12.7.1	Coding requirements	--	
Q.954.2.12.7.2	Signalling procedures at the coincident S and T reference point	--	
Q.954.2.12.7.2.1	Creating a three-way conversation	--	
Q.954.2.12.7.2.1.1	Normal operation	--	
Q.954.2.12.7.2.1.2	Exceptional procedures	I	
Q.954.2.12.7.3	Procedures for interworking with private ISDNs	--	
Q.954.2.12.8	Conference call, add-on	--	
Q.954.2.12.8.1	Coding requirements	--	
Q.954.2.12.8.2	Signalling procedures at the coincident S and T reference point	--	
Q.954.2.12.8.2.1	Requesting a three-way conversation where one of the connections belongs to a conference call	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.954.2.12.8.2.1.1	Normal operation	--	
Q.954.2.12.8.2.1.2	Exceptional procedures	I	
Q.954.2.12.8.2.2	Adding a three-way conversation to a conference	--	
Q.954.2.12.8.2.2.1	Normal operation	--	
Q.954.2.12.8.2.2.2	Exceptional procedures	I	
Q.954.2.12.8.2.3	Invocation of the conference call, add-on supplementary service for a connection in a three-way conversation	--	
Q.954.2.12.8.2.3.1	Normal operation	--	
Q.954.2.12.8.2.3.2	Exceptional procedures	I	
Q.954.2.12.8.2.4	Remote user uses the 3PTY supplementary service	--	
Q.954.2.12.8.2.4.1	Normal operation	I	
Q.954.2.12.8.2.4.2	Exceptional procedures	--	
Q.954.2.12.8.3	Procedures for interworking with private ISDNs	I	
Q.954.2.12.9	Direct-Dialling-In	--	
Q.954.2.12.10	Diversion services	--	
Q.954.2.12.10.1	Call Forwarding Busy	--	
Q.954.2.12.10.2	Call Forwarding No Reply	--	
Q.954.2.12.10.3	Call Forwarding Unconditional	--	
Q.954.2.12.10.4	Call Deflection	--	
Q.954.2.12.11	Line Hunting	--	
Q.954.2.12.12	Three-Party	NA	
Q.954.2.12.13	User-to-User Signalling	--	
Q.954.2.12.14	Multiple Subscriber Number	--	
Q.954.2.12.15	Call Hold	I	
Q.954.2.12.15.1	Coding requirements	--	
Q.954.2.12.15.2	Signalling procedures at the coincident S and T reference point	--	
Q.954.2.12.15.2.1	Creating a three-way conversation from a held call	--	
Q.954.2.12.15.2.2	Holding a three-way conversation	I	
Q.954.2.12.15.2.3	Retrieving a three-way conversation	I	
Q.954.2.12.15.3	Procedures for interworking with	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
	private ISDNs		
Q.954.2.12.16	Advice Of Charge	I	*Please refer to §Q.956.2.12.12*
Q.954.2.12.17	Sub-addressing	--	
Q.954.2.12.18	Terminal Portability	*I*	*The ETS 300 195.5.30 is applicable.*
ETS 300 195.5.30	*The TP and 3PTY supplementary services*	--	
ETS 300 195.5.30.1	*Coding requirements*	--	
ETS 300 195.5.30.2	*Signalling procedures at the coincident S and T reference point*	--	
ETS 300 195.5.30.2.1	*Served user uses the TP supplementary service*	--	
ETS 300 195.5.30.2.1.1	*Normal operation*	--	
ETS 300 195.5.30.2.1.2	*Exceptional procedures*	*I*	
ETS 300 195.5.30.2.2	*Remote user of the TP supplementary service uses the 3PTY supplementary service*	--	
ETS 300 195.5.30.2.2.1	*Normal operation*	*I*	
ETS 300 195.5.30.2.2.2	*Exceptional procedures*	--	
ETS 300 195.5.30.3	*Procedures for interworking with private ISDNs*	--	
Q.954.2.12.19	*Completion of Calls to Busy Subscriber*	--	
Q.954.2.12.20	Malicious Call Identification	--	
Q.954.2.12.21	Reverse Charging	NA	
Q.954.2.12.22	Multi-level Precedence and Preemption	NA	
Q.954.2.12.23	Support of private numbering plan	NA	
Q.954.2.12.24	International Telecommunication Charge Card	NA	
Q.954.2.12.25	Global virtual networking service	NA	
Q.954.2.13	Parameter values (timers)	--	
Q.954.2.14	Dynamic description (SDLs	--	
Q.955_1	SUPPLEMENTARY SERVICE Closed User Group	--	
Q.955.1.1	Definition	--	
Q.955.1.2	Description	--	
Q.955.1.2.1	General description	--	
Q.955.1.2.2	Specific terminology	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.955.1.2.2.1	CUG manager	--	
Q.955.1.2.2.2	CUG index	--	
Q.955.1.2.2.3	CUG interlock code	--	
Q.955.1.2.2.4	preferential CUG	--	
Q.955.1.2.2.5	CUG only service	--	
Q.955.1.2.2.6	outgoing calls barred within the CUG	--	
Q.955.1.2.2.7	outgoing access	--	
Q.955.1.2.2.8	incoming calls barred within the CUG	--	
Q.955.1.2.2.9	Incoming access	--	
Q.955.1.2.3	Qualification on the applicability to telecommunication services	--	
Q.955.1.2.4	State definitions	--	
Q.955.1.3	Operational requirements	--	
Q.955.1.3.1	Provision/withdrawal	I	*The ETS 300 138.6.1 is applicable.*
Q.955.1.3.2	Requirements on the originating network side	--	*The following sentence is added: However, if the network knows that such interactions are not possible (e.g. the user has only the CUG supplementary service) then the information may be discarded.*
Q.955.1.3.3	Requirements in the network	NA	
Q.955.1.3.4	Requirements on the terminating network side	I	*The paragraph is modified as follows:* *For correct interactions with certain other supplementary services, the destination network side shall store, for the duration of the call, details of whether a normal or a CUG call request was passed to the called user. The CUG interlock code (if any) of the call request shall also be retained. However, if the network knows that such interactions are not possible (e.g. the user has only the CUG supplementary service) then the information may be discarded.*
Q.955.1.4	Coding requirements	--	
Q.955.1.4.1	Messages	NA	
Q.955.1.4.2	Operations (ASN.1)	I	*The ETS 300 138.7.1 is applicable.*
Q.955.1.5	Signalling requirements	--	
Q.955.1.5.1	Activation/deactivation/registration	NA	
Q.955.1.5.2	Invocation and operation	I	*The ETS 300 138.9.2.1 is applicable.*
ETS.300 188.9.2.1	Call originating from a user with the CUG supplementary service (explicit request)	--	
ETS.300 188.9.2.1.1	Normal operation	I	
ETS.300 188.9.2.1.2	Exceptional procedures	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS.300 188.9.2.2	Call originating from a user with the CUG supplementary service (default request)	--	
ETS.300 188.9.2.2.1	Normal operation	I	
ETS.300 188.9.2.2.2	Exceptional procedures	I	
ETS.300 188.9.2.3	Call originating from a user without the CUG supplementary service	--	
ETS.300 188.9.2.3.1	Normal operation	I	
ETS.300 188.9.2.3.2	Exceptional procedures	I	
ETS.300 188.9.2.4	Call terminating at a user with the CUG supplementary service	--	
ETS.300 188.9.2.4.1	Normal operation	I	
ETS.300 188.9.2.4.2	Exceptional procedures	I	
ETS.300 188.9.2.5	CUG checks at the originating and destination network	--	
Q.955.1.6	Interaction with other supplementary services	--	
Q.955.1.6.1	Call Waiting	--	
Q.955.1.6.2	Call Transfer	--	
Q.955.1.6.3	Connected Line Identification Presentation	--	
Q.955.1.6.4	Connected Line Identification Restriction	--	
Q.955.1.6.5	Calling Line Identification Presentation	--	
Q.955.1.6.6	Calling Line Identification Restriction	--	
Q.955.1.6.7	Closed User Group	NA	
Q.955.1.6.8	Conference Calling	I	*Please refer to §Q.956.1.6.7.*
Q.955.1.6.9	Direct-Dialling-in	--	
Q.955.1.6.10	Call diversion (call forwarding) services	--	
Q.955.1.6.10.1	Call Forwarding Busy	--	
Q.955.1.6.10.2	Call Forwarding No Reply	--	
Q.955.1.6.10.3	Call Forwarding Unconditional	--	
Q.955.1.6.10.4	Call Deflection	--	
Q.955.1.6.11	Line Hunting	I	*Please refer to §Q.952.1.6.7.*
Q.955.1.6.12	Three-Party-Service	I	*Please refer to §Q.954.12.7.*
Q.955.1.6.13	User-to-User Signalling	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.955.1.6.13.1	Service 1	--	
Q.955.1.6.13.2	Service 2	--	
Q.955.1.6.13.3	Service 3	--	
Q.955.1.6.14	Multiple Subscriber Number	--	
Q.955.1.6.15	Call Hold	--	
Q.955.1.6.16	Advice of Charge	--	
Q.955.1.6.17	Sub-addressing	--	
Q.955.1.6.18	Terminal Portability	--	
Q.955.1.6.19	Completion of Calls to Busy Subscriber	I	*Please refer to ETS 300 195.5.40.*
Q.955.1.6.20	Malicious Call Identification	--	
Q.955.1.7	Interaction with other networks	--	
Q.955.1.7.1	Interaction with public network	--	*The paragraph is modified as follows :* *When a CUG call fails at a gateway to a network that does not support the CUG supplementary service then if the CUG supplementary service was explicitly invoked the cUGCall return error component returned to the calling user shall indicate "userNotMemberOfCUG" and the cause should be #29 "facility rejected". If the CUG supplementary service was invoked by default, normal clearing procedures shall apply using cause #87 "user not a member of CUG".*
Q.955.1.7.2	Interaction with private ISDN	--	*The paragraph is modified as follows :* *Interworking with private ISDNs shall be according to the procedures of §Q.955.1.5.*
Q.955.1.8	Signalling flows	--	
Q.955.1.9	Parameter value (timers)	--	
Q.955.1.10	Dynamic description (SDLs)	--	
Q.955.A.1.1	Invoke component	--	
Q.955.A.1.2	Return error component	--	
Q.956_2	SUPPLEMENTARY SERVICE Advice Of Charge (AOC)	--	
Q.956.2.1	Scope	--	
Q.956.2.2	References	--	
Q.956.2.3	Definitions	--	
Q.956.2.4	Abbreviations	--	
Q.956.2.5	Description	--	
Q.956.2.5.1	Charging information at call set-up time	I	
Q.956.2.5.2	Charging information during a call	I	
Q.956.2.5.3	Charging information at the end of a call	I	
Q.956.2.6	Operational requirements	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.956.2.6.1	Provision/withdrawal	I	
Q.956.2.6.2	Requirements on the originating network side	I	
Q.956.2.6.3	Requirements on the destination network side	--	
Q.956.2.7	Coding requirements	--	
Q.956.2.7.1	General	I	
Q.956.2.7.2	Coding of the Facility information element	I	*Following items are not supported:* *In IMPORTS the supplementaryServiceInteractionNotAllowed.* If charging applies also for the operation of supplementary services, the AOCDChargingUnitInfo and the AOCEChargingUnitInfo invoke component contain both the charging for the basic communication and for the operation of supplementary services. For AOCSCurrencyInfo the following items are not supported: – data volume charge for UUS3 – optional parameter – special charging code DurationCurrency (dGranularity) supported is only the same time as the interval-time AOCSSpecialArr (AOC-S for special charging arrangement) is not supported. For AOCDChargingUnitInfo, AOCDCurrencyInfo optional parameter are not supported.
Q.956.2.8	State definitions	I	
Q.956.2.9	Signalling procedures at the coincident S and T reference point	--	
Q.956.2.9.1	Activation/deactivation/registration	--	
Q.956.2.9.1.1	Normal operation	I	
Q.956.2.9.1.2	Exceptional procedures	I	
Q.956.2.9.2	Invocation and operation	I	
Q.956.2.9.2.1	Transfer of charging information in the call establishment phase	--	
Q.956.2.9.2.1.1	Normal operation	I	
Q.956.2.9.2.1.2	Exceptional procedures	I	
Q.956.2.9.2.2	Transfer of charging information in the Active state	--	
Q.956.2.9.2.2.1	Normal operation	I	
Q.956.2.9.2.2.2	Exceptional procedures	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.956.2.9.2.3	Transfer of charging information in the call clearing phase	--	
Q.956.2.9.2.3.1	Normal operation	I	
Q.956.2.9.2.3.2	Exceptional procedures	I	
Q.956.2.9.2.4	Transfer of charging information independent of a bearer at the user-network interface	--	
Q.956.2.9.2.4.1	Normal operation	NU	
Q.956.2.9.2.4.2	Exceptional procedures	NU	
Q.956.2.10	Procedures for interworking with private ISDNs	I	
Q.956.2.11	Interactions with other networks	--	
Q.956.2.11.1	Procedures for interworking with other public networks	--	
Q.956.2.12	Interaction with other supplementary services	--	
Q.956.2.12.1	Call Waiting (CW)	--	
Q.956.2.12.2	Explicit Call Transfer (ECT)	*I*	*The ETS 300 195.5.30 is applicable.*
ETS 300 195.5.2.1	*Coding requirements*	*I*	
Q.956.2.12.2.1	Signalling procedures at the coincident S and T reference point	--	
Q.956.2.12.2.1.1	Delivery of charging information to the transferring user	--	
Q.956.2.12.2.1.1.1	Normal procedures	*I*	*The last sentence of the first paragraph is deleted.*
Q.956.2.12.2.1.1.2	Exceptional procedures	*I*	*The last sentence of the two paragraphs are deleted.*
Q.956.2.12.2.2	Procedures for interworking with private ISDNs	*I*	
Q.956.2.12.3	Connected Line Identification Presentation (COLP)	--	
Q.956.2.12.4	Connected Line Identification Restriction (COLR)	--	
Q.956.2.12.5	Calling Line Identification Presentation (CLIP)	--	
Q.956.2.12.6	Calling Line Identification Restriction (CLIR)	--	
Q.956.2.12.7	Closed User Group (CUG)	--	
Q.956.2.12.8	Conference Calling (CONF)	--	
Q.956.2.12.8.1	Signalling procedures at the coincident S and T reference point	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.956.2.12.8.1.1	Normal operation	*I*	
Q.956.2.12.8.1.2	Exceptional procedures	*I*	
Q.956.2.12.8.2	Procedures for interworking with private ISDNs	*I*	
Q.956.2.12.9	Direct-Dialling-In (DDI)	--	
Q.956.2.12.10	Call Diversion (call forwarding) services	--	
Q.956.2.12.10.1	Call Forwarding Busy (CFB)	--	*The ETS 300 195.5.5 is applicable.*
ETS 300 195.5.5.1	*Coding requirements*	*I*	*Please refer to ETS 300 195.5.2.1.*
Q.956.2.12.10.1.1	Signalling procedures at the coincident S and T reference point	I	
Q.956.2.12.10.1.1.1	Delivery of charging information to the forwarding user	--	
Q.956.2.12.10.1.1.1.1	Normal operation	I	
Q.956.2.12.10.1.1.1.2	Exceptional procedures	--	
Q.956.2.12.10.1.2	Procedures for interworking with private ISDNs	I	
Q.956.2.12.10.1.2.1	Delivery of charging information to the private network when the CFB supplementary service is provided to the private ISDN	I	
Q.956.2.12.10.1.2.2	Delivery of charging information to the private network when partial rerouting applies	--	
Q.956.2.12.10.1.2.2.1	Normal operation	I	
Q.956.2.12.10.1.2.2.2	Exceptional procedures	--	
Q.956.2.12.10.2	Call Forwarding No Reply (CFNR)	I	
Q.956.2.12.10.3	Call Forwarding Unconditional (CFU)	I	
Q.956.2.12.10.4	Call Deflection (CD)	--	*The ETS 300 195.5.4 is applicable.*
ETS 300 195.5.4.1	*Coding requirements*	*I*	*Please refer to ETS 300 195.5.2.1.*
Q.956.2.12.10.4.1	Signalling procedures at the coincident S and T reference point	I	
Q.956.2.12.10.4.1.1	Delivery of charging information to the deflecting user	--	
Q.956.2.12.10.4.1.1.1	Normal operation	I	
Q.956.2.12.10.4.1.1.2	Exceptional procedures	I	
Q.956.2.12.10.4.2	Procedures for interworking with private ISDNs	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.956.2.12.10.4.2.1	Delivery of charging information to the private network when the CD supplementary service is provided to the private ISDN	I	
Q.956.2.12.10.4.2.2	Delivery of charging information to the private network when partial rerouting applies	I	
Q.956.2.12.11	Line Hunting (LH)	--	
Q.956.2.12.12	Three-Party Service (3PTY)	--	
Q.956.2.12.12.1	Signalling procedures at the coincident S and T reference point	--	
Q.956.2.12.12.1.1	Normal operation	I	
Q.956.2.12.12.1.2	Exceptional procedures	--	
Q.956.2.12.12.2	Procedures for interworking with private ISDNs	--	
Q.956.2.12.13	User-to-User Signalling (UUS)	--	
Q.956.2.12.14	Multiple Subscriber Number (MSN)	--	
Q.956.2.12.15	Call Hold (HOLD)	--	
Q.956.2.12.16	Advice Of Charge (AOC)	--	
Q.956.2.12.16.1	AOC-S interactions to AOC-D and AOC-E	NA	
Q.956.2.12.16.2	AOC-D interactions to AOC-E	I	
Q.956.2.12.17	Sub-addressing (SUB)	--	
Q.956.2.12.18	Terminal Portability (TP)	--	
Q.956.2.12.18.1	Signalling procedures at the coincident S and T reference point	--	
Q.956.2.12.18.1.1	In the call suspension phase	--	
Q.956.2.12.18.1.1.1	Normal operation	I	
Q.956.2.12.18.1.1.2	Exceptional procedures	--	
Q.956.2.12.18.1.2	In the call resume phase	--	
Q.956.2.12.18.1.2.1	Normal operation	I	
Q.956.2.12.18.1.2.2	Exceptional procedures	--	
Q.956.2.12.18.2	Procedures for interworking with private ISDNs	--	
Q.956.2.12.19	Completion of Calls to Busy Subscriber (CCBS)	--	
Q.956.2.12.19.1	Signalling procedures at the coincident S and T reference point	--	
Q.956.2.12.19.1.1	Requesting an AOC supplementary	--	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
	service		
Q.956.2.12.19.1.1.1	Normal operation	I	
Q.956.2.12.19.1.1.2	Exceptional procedures	I	
Q.956.2.12.19.1.2	Delivery of charging information to the user	--	
Q.956.2.12.19.1.2.1	Normal operation	--	
Q.956.2.12.19.1.2.2	Exceptional procedures	--	
Q.956.2.12.19.2	Procedures for interworking with private ISDNs	--	
Q.956.2.12.19.2.1	Requesting an AOC supplementary service by the private network	--	
Q.956.2.12.19.2.1.1	Normal operation	I	
Q.956.2.12.19.2.1.2	Exceptional procedures	I	
Q.956.2.12.19.2.2	Delivery of charging information to the private network	--	
Q.956.2.12.19.2.2.1	Normal operation	I	
Q.956.2.12.19.2.2.2	Exceptional procedures	I	
Q.956.2.12.20	Malicious Call Identification (MCID)	--	
Q.956.2.12.21	Reverse Charging (REV)	NU	
Q.956.2.12.21.1	Interaction between AOC-S and REV	NU	
Q.956.2.12.21.1.1	REV case A and D	NU	
Q.956.2.12.21.1.1.1	Calling user	NU	
Q.956.2.12.21.1.1.2	Called user	NU	
Q.956.2.12.21.1.2	REV case B and C	NU	
Q.956.2.12.21.1.2.1	Calling user	NU	
Q.956.2.12.21.1.2.2	Called user	NU	
Q.956.2.12.21.2	Interaction between AOC-D and REV	NU	
Q.956.2.12.21.2.1	REV case A and D	NU	
Q.956.2.12.21.2.1.1	Calling user	NU	
Q.956.2.12.21.2.1.2	Called user	NU	
Q.956.2.12.21.2.2	REV case B	NU	
Q.956.2.12.21.2.2.1	Calling user	NU	
Q.956.2.12.21.2.2.2	Called user	NU	
Q.956.2.12.21.2.3	REV case C	NU	
Q.956.2.12.21.2.3.1	Calling user	NU	
Q.956.2.12.21.2.3.2	Called user	NU	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.956.2.12.21.3	Interaction between AOC-E and REV	NU	
Q.956.2.12.21.3.1	REV case A and D	NU	
Q.956.2.12.21.3.1.1	Calling user	NU	
Q.956.2.12.21.3.1.2	Called user	NU	
Q.956.2.12.21.3.2	REV case B	NU	
Q.956.2.12.21.3.2.1	Calling user	NU	
Q.956.2.12.21.3.2.2	Called user	NU	
Q.956.2.12.21.3.3	REV case C	NU	
Q.956.2.12.21.3.3.1	Calling user	NU	
Q.956.2.12.21.3.3.2	Called user	NU	
Q.956.2.12.22	Multi-Level Precedence and Preemption (MLPP)	NA	
Q.956.2.12.23	Support of Private Numbering Plan (SPNP)	NA	
Q.956.2.12.24	International Telecommunication Charge Card (ITCC)	NA	
Q.956.2.12.25	Global Virtual Network Services (GVNS)	NA	
Q.956.2.13	Parameter values (timers)	--	
Q.956.2.14	Dynamic description (SDLs)	--	
Q.956.I	Appendix I Signalling flows	--	
Q.957_1	SUPPLEMENTARY SERVICE User-to-User Signalling (UUS)	--	
Q.957.1.1	Definition	--	
Q.957.1.2	Description	--	
Q.957.1.2.1	General description	--	
Q.957.1.2.2	Specific terminology	--	
Q.957.1.2.3	Qualifications on the applicability to telecommunications services	--	
Q.957.1.2.4	State definitions	I	
Q.957.1.3	Operational requirements	--	
Q.957.1.3.1	Provision/withdrawal	I	*The paragraph is modified as follows:* *The UUS supplementary service shall be provided to the user after prior arrangement with the network.* *No subscription is required for the remote user.* *As a network option, one or any combination of the following possibilities can be provided separately or globally:* – *service 1 implicit, or service 1 implicit together with service 1 explicit;*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
			– *service 2;* – *service 3.* *The UUS supplementary service shall be withdrawn by the network upon request of the subscriber or for network reasons.* *As a network option, withdrawal can be done separately per service provided, or globally for all services provided to the served user.*
Q.957.1.3.2	Requirements on the originating network side	I	*The paragraph is modified as follows:* *The originating network shall be able to receive UUI from the user and convey it towards the destination network; and to receive UUI from the destination network and convey it to the user.* *For services 2 and 3, the network shall control the flow of UUI received from the local user.* *The originating network shall check that the service has been activated; otherwise appropriate error handling shall take place.*
Q.957.1.3.3	Requirements in the network	NA	
Q.957.1.3.4	Requirements on the terminating network side	I	Please refer to §Q.957.1.3.2.
Q.957.1.3.5	Assumptions made about the terminal	NU	
Q.957.1.4	Coding requirements	I	*The ETS 300 286.7 is applicable.*
ETS 300 286.7.1	*Coding of the Facility information element component*	*I*	
ETS 300 286.7.2	*Definition of messages*	*I*	
ETS 300 286.7.2.1	*CONGESTION CONTROL*	*I*	
ETS 300 286.7.2.2	*USER INFORMATION*	*I*	
ETS 300 286.7.3	*Definition of information elements*	*I*	
ETS 300 286.7.3.1	*Congestion level*	*I*	
ETS 300 286.7.3.2	*More data*	*I*	
ETS 300 286.7.3.3	*User-user*	*I*	
Q.957.1.5	Signalling requirements	--	
ETS 300 286.9.1	*Service 1*	**--**	
ETS 300 286.9.1.1	*Activation, deactivation and registration*	**I**	
ETS 300 286.9.1.1.1	*Service 1 - implicitly requested*	--	
ETS 300 286.9.1.1.1.1	*Normal operation*	*I*	
ETS 300 286.9.1.1.1.2	*Exceptional procedures*	*I*	
ETS 300 286.9.1.1.2	*Service 1 - explicitly requested*	--	
ETS 300 286.9.1.1.2.1	*Normal operation*	*I*	
ETS 300 286.9.1.1.2.2	*Exceptional procedures*	*I*	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 286.9.1.2	*Invocation*	--	
ETS 300 286.9.1.2.1	*Service 1 invocation during call establishment*	--	
ETS 300 286.9.1.2.1.1	*Normal operation*	*I*	
ETS 300 286.9.1.2.1.2	*Exceptional procedures*	*I*	
ETS 300 286.9.1.2.2	*Service 1 invocation during call clearing*	--	
ETS 300 286.9.1.2.2.1	*Normal operation*	*I*	
ETS 300 286.9.1.2.2.2	*Exceptional procedures*	*I*	
ETS 300 286.9.2	*Service 2*	--	
ETS 300 286.9.2.1	*Activation, deactivation and registration*	--	
ETS 300 286.9.2.1.1	*Normal operation*	*I*	
ETS 300 286.9.2.1.2	*Exceptional procedures*	*I*	
ETS 300 286.9.2.2	*Invocation*	--	
ETS 300 286.9.2.2.1	*Normal operation*	*I*	
ETS 300 286.9.2.2.2	*Exceptional procedures*	*I*	
ETS 300 286.9.3	*Service 3*	*I*	
ETS 300 286.9.3.1	*Activation, deactivation and registration*	*I*	
ETS 300 286.9.3.1.1	*Service 3 request during call establishment*	--	
ETS 300 286.9.3.1.1.1	*Normal operation*	*I*	
ETS 300 286.9.3.1.1.2	*Exceptional procedures*	*I*	
ETS 300 286.9.3.1.2	*Service 3 request during the Active (N10, U10) call state*	--	
ETS 300 286.9.3.1.2.1	*Normal operation*	*I*	
ETS 300 286.9.3.1.2.2	*Exceptional procedures*	*I*	
ETS 300 286.9.3.2	*Invocation*	--	
ETS 300 286.9.3.2.1	*Normal operation*	*I*	
ETS 300 286.9.3.2.2	*Exceptional procedures*	*I*	
ETS 300 286.9.3.3	*Flow control*	--	
ETS 300 286.9.3.3.1	*Normal operation*	*I*	
ETS 300 286.9.3.3.2	*Exceptional procedures*	*I*	
Q.957.1.6	Interaction with other supplementary services	--	
Q.957.1.6.1	Call Waiting	--	
Q.957.1.6.2	Call Transfer	I	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.957.1.6.2.1	Normal Call Transfer	NA	
Q.957.1.6.2.2	Explicit Call Transfer	NA	
Q.957.1.6.2.3	Single Step Call Transfer	NA	
Q.957.1.6.3	Connected Line Identification Presentation	--	
Q.957.1.6.4	Connected Line Identification Restriction	--	
Q.957.1.6.5	Calling Line Identification Presentation	--	
Q.957.1.6.6	Calling Line Identification Restriction	--	
Q.957.1.6.7	Closed User Group	--	
Q.957.1.6.8	Conference Calling	--	
Q.957.1.6.9	Direct-Dialling-In	--	
Q.957.1.6.10	Call diversion (call forwarding) services	--	
Q.957.1.6.10.1	Call Forwarding Busy		*The ETS 300 195.5.23 is applicable.*
ETS 300 195.5.23.1	*Coding requirements*	*I*	
Q.957.1.6.10.1.1	Normal operation	I	
Q.957.1.6.10.1.2	Exceptional procedures	I	
Q.957.1.6.10.2	Call Forwarding No Reply	--	*The ETS 300 195.5.26 is applicable.*
ETS 300 195.5.26.1	*Coding requirements*	*I*	*Please refer to ETS 300 195.5.23.1.*
Q.957.1.6.10.2.1	Service 1 implicitly requested	--	
Q.957.1.6.10.2.1.1	Normal operation	I	
Q.957.1.6.10.2.1.2	Exceptional procedures	--	
Q.957.1.6.10.2.2	Service 1 explicitly requested	--	
Q.957.1.6.10.2.2.1	Normal operation	*I*	*The ETS 300 195.5.26.2.2.1 is applicable.*
Q.957.1.6.10.2.2.2	Exceptional procedures	--	
Q.957.1.6.10.2.3	Service 2	--	
Q.957.1.6.10.2.3.1	Normal operation	*I*	
Q.957.1.6.10.2.3.2	Exceptional procedures	--	
Q.957.1.6.10.2.4	Service 3	--	
Q.957.1.6.10.2.4.1	Normal operation	*I*	
Q.957.1.6.10.2.4.2	Exceptional procedures	--	
Q.957.1.6.10.3	Call forwarding unconditional	--	
Q.957.1.6.10.3.1	Normal operation	I	
Q.957.1.6.10.3.2	Exceptional procedures	--	
Q.957.1.6.10.4	Call Deflection	--	*The ETS 300 195.5.20 is applicable.*

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
ETS 300 195.5.20.1	*Coding requirements*	*I*	*Please refer to ETS 300 195.5.23.1.*
Q.957.1.6.10.4.1	Procedures at the deflecting user when deflection takes place before alerting	I	
Q.957.1.6.10.4.1.1	Normal operation	I	
Q.957.1.6.10.4.1.2	Exceptional procedures	I	*The error value "supplementaryServiceInteractionNotAllowed" replace the „notAvailable“.*
Q.957.1.6.10.4.2	Procedures at the deflecting user when deflection takes place after alerting	I	
Q.957.1.6.10.4.2.1	Service 1 implicitly requested	--	
Q.957.1.6.10.4.2.1.1	Normal operation	I	
Q.957.1.6.10.4.2.1.2	Exceptional procedures	--	
Q.957.1.6.10.4.2.2	Service 1 explicitly requested	--	
Q.957.1.6.10.4.2.2.1	Normal operation	*I*	
Q.957.1.6.10.4.2.2.2	Exceptional procedures	--	
Q.957.1.6.10.4.2.3	Service 2	--	
Q.957.1.6.10.4.2.3.1	Normal operation	*I*	
Q.957.1.6.10.4.2.3.2	Exceptional procedures	--	
Q.957.1.6.10.4.2.4	Service 3	--	
Q.957.1.6.10.4.2.4.1	Normal operation	*I*	
Q.957.1.6.10.4.2.4.2	Exceptional procedures	--	
Q.957.1.6.10.5	Partial rerouting	--	*The following paragraphs are added :* *However, as a network provider option, the rerouteing of the UUI and/or request of the UUS supplementary service can be restricted to users who subscribe to the relevant UUS supplementary service.* *If the network supports this option, and the private network who invoked call rerouteing is not subscribed to the requested UUS supplementary service, then the public network shall ignore the UUS service request and shall not forward it with the deflected call.* *NOTE 3: In the case of explicit request, since the request for the UUS supplementary service request is not delivered to the forwarded-to user, no response is received on the request. Consequently, the network will reject the UUS supplementary service request towards the calling user according to the procedures specified in §Q.957.1, sub paragraphs .9.1.1.2.2, 9.2.1.2 or 9.3.1.1.21.*
Q.957.1.6.11	Line Hunting	NA	
Q.957.1.6.12	Three-Party Service	--	
Q.957.1.6.13	User-to-User Signalling	--	
Q.957.1.6.13.1	Service 1	NA	

ITU-T Rec. Paragraph	Title	Statement of Compliance	Comment
Q.957.1.6.13.2	Service 2	NA	
Q.957.1.6.13.3	Service 3	NA	
Q.957.1.6.14	Multiple Subscriber Number	--	
Q.957.1.6.15	Call Hold	--	
Q.957.1.6.16	Advice of Charge	--	
Q.957.1.6.17	Sub-addressing	--	
Q.957.1.6.18	Terminal Portability	--	
Q.957.1.6.18.1	Normal operation	*I*	*The last sentence of the first paragraph is modified as follows:* *Any CONGESTION CONTROL message which should have been sent to the user while the call is suspended shall be sent after the RESUME ACKNOWLEDGE message has been sent.*
Q.957.1.6.18.2	Exceptional procedures	*I*	*The last sentence of the second paragraph and the note are deleted.*
Q.957.1.6.19	Completion of Calls to Busy Subscriber	--	*The ETS 300 195.5.37 is applicable.*
Q.957.1.6.20	Malicious Call Identification	--	
Q.957.1.6.21	Reverse Charging	NU	
Q.957.1.6.22	Multi-Level Precedence and Preemption	NU	
Q.957.1.7	Interactions with other networks	--	
ETS 300 286.11.1	Interworking with an ISDN network supporting only a maximum User-user information element length of 35 octets	I	
Q.957.1.7.1	Interaction with non-ISDNs	I	*This paragraph are replaced by the following:* *In the case of interworking with a non-ISDN network or with a non-ISDN called user, a Progress indicator information element indicating #1 "call is not end-to-end ISDN; further progress information may be available in-band" or #2 "destination address is non-ISDN", respectively, is sent to the calling user as part of basic call.* *This progress information shall serve as an indication that the requested service cannot be guaranteed.*
Q.957.1.7.2	Procedures for interworking with private ISDNs	NA	
Q.957.1.8	Signalling flow	--	
Q.957.1.9	Parameter values (timers)	I	*This paragraph is modified as follows:* *T1-UUS3 : 10 s* *T2-UUS3 : 10 s* *T3-UUS3 : 10 s*
Q.957.1.10	Dynamic description (SDLs)		
Q.957.A	Reference		

History

Document history		
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