ETSI

AMENDMENT

ETS 300 138-1

A1

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**This amendment A1 modifies
the European Telecommunication Standard ETS 300 138-1 (1992)**

Integrated Services Digital Network (ISDN);
Closed User Group (CUG) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 1: Protocol specification

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European Telecommunications Standards Institute

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Foreword

This amendment to ETS 300 138-1 (1992) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

NOTE: ETS 300 138-1 (1992) was initially published as ETS 300 138 (1992).

This amendment modifies ETS 300 138-1 (1992) to bring it into alignment with the stage 3n specification contained in ETS 300 356-9 (1994) concerning the procedures for informing the calling user in the case of call rejection. In addition, this amendment corrects an error in subclause 9.2.4.1.

Transposition dates	
Date of adoption of this amendment:	12 January 1996
Date of latest announcement of this amendment (doa):	30 April 1996
Date of latest publication or endorsement of this amendment (dop/e):	31 October 1996
Date of withdrawal of any conflicting National Standard (dow):	31 October 1996

Amendments

Page 13, subclause 9.2

Insert the following note at the beginning of subclause 9.2:

> "NOTE: In a number of cases the procedures in the following subclauses specify that return error information shall be conveyed from the destination to the originating side. However, the current ISUP implementation (ETS 300 356-9(1994)) does not fully support the conveyance of the return error information to the originating network as cause values are the only means for conveyance of information. The mapping from return error information at the destination and vice versa at the origination is specified in annex C."

Page 16, subclause 9.2.4.1, last paragraph and items 1) and 2)

Replace the last paragraph "In case of (...) the user may:" and bullet items 1) and 2) by:

> "In case of a SETUP message sent via the broadcast datalink, the network may, as a network option retain the return error component along with the Q.931 cause retained according to subclause 5.2.5.3 of ETS 300 102-1 [10]. If there are multiple clearing messages containing return error components, the indication in the return error component contained in the first received clearing message with the highest priority cause will be sent back to the calling user. If none of the clearing messages with the highest priority cause contains return error components and other clearing messages with lower priority causes do contain return error components, no indication in these return error components shall be sent back to the calling user.

In addition to the basic call procedures defined in ETS 300 102-1 [10], when a user receives a SETUP message with a Facility information element containing a cUGCall invoke component and the user can recognize CUG call invocation procedures, the user may:

> 1) initiate appropriate user domain closed user group procedures and, if the call fails for CUG supplementary service reasons, may include in the first clearing message returned to the network (before the alerting phase) a Facility information element containing a cUGCall return error component; or

> 2) include in the first clearing message returned to the network (before the alerting phase) a Facility information element containing a cUGCall return error component with value "inconsistencyInDesignatedFacilityAndSubscriberClass" if the call fails for a reason unrelated to the CUG supplementary service."

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Insert a new annex C:

Annex C (normative):   Mapping of return errors and cause values

This annex specifies the requirements for the mapping of return error values into cause values at the destination network side, and the mapping of cause values into return error values at the originating network side.

C.1   Mapping at the destination network side

Table C.1 specifies which cause values shall be sent in ISUP towards the originating network if a CUG call is rejected as a result of the CUG check at the destination.

Table C.1: Rejection as a result of CUG check

Cause value sent in ISUP towards the originating network	The CUG call is rejected due to the following check result
#55	The attribute "incoming call barred within CUG" is set for the called user
#87	The IC does not match with the CUG index, or the IC matches with the CUG index but not for the requested service (see note *1 of table 6)
#29 with diagnostic "CUG without access"	The CUG call is towards a network not supporting the CUG supplementary service (see subclause 1.5.2.5.1 of ETS 300 356-9)
Cause #29: "facility rejected" Cause #55: "incoming calls barred within CUG" Cause #87: "user not member of CUG"	

Table C.2 specifies which cause values shall be sent in ISUP towards the originating network if a CUG call is rejected by the called user.

Table C.2: CUG rejected by the called user

Cause value used in ISUP	Information received from the called user	
	Cause value	Return error
#87	X	(1), (2), (3)
As received from DSS1	X	(4)
#55	X	(5)
As received from DSS1	X	(6)
As received from DSS1	X	None
(1): Error value "userNotMemberOfCUG" (2): Error value "invalidOrUnregisteredCUGIndex" (3): Error value "requestedBasicServiceViolatesCUGConstraints" (4): Error value "inconsistencyInDesignatedFacilityAndSubscriberClass" (5): Error value "incomingCallsBarredWithinCUG" (6): Error value "basicServiceNotProvided" X: Any basic call cause value unrelated to CUG Cause #87: "user not member of CUG" Cause #55: "incoming calls barred within CUG"		

C.2   Mapping at the originating network side

Table C.3 specifies which return error values shall be sent to the calling user as a result of the received cause value from ISUP.

Table C.3: Mapping at the originating side

Type of CUG request at the calling user	Information sent to the calling user		Cause value received from ISUP
	Cause value	Return error	
Explicit request	#29	(1)	#55
Default request	#29	None	
Not a CUG request	#87	None	
Explicit request	#29	(2)	#87
Default request	#87	None	
Not a CUG request	#87	None	
Explicit request	#29	(2)	#29 with diagnostic "CUG without access"
Default request	#87	None	
Not a CUG request	#87	None	
Explicit request	According to basic call	(3)	Other
Default request		None	
Not a CUG request		None	
(1): Error value "incomingCallsBarredWithinCUG"			
(2): Error value "userNotMemberOfCUG"			
(3): Error value "basicServiceNotProvided"			
Cause #29: "facility rejected"			
Cause #55: "incoming calls barred within CUG"			
Cause #87: "user not member of CUG"			

History

Document history	
May 1992	First Edition of ETS 300 138
April 1994	Corrigendum to First Edition of ETS 300 138
September 1995	Unified Approval Procedure UAP 35: 1995-09-04 to 1995-12-29
January 1996	Amendment 1 to First Edition of ETS 300 138-1 (including prior Corrigenda)