



Uppgjord - prepared Telefoni Ahe, RB	Faktaansvarig - Subject responsible	Nr - No 8211-A325			
Dokumentansvarig/Godkänd - Document responsible/Approved Telefoni Bengt Estmalm	Datum - Date 98-06-15	Rev B	File/Tillhör	S-klass	

ISDN-PLMN (GSM) SIGNALLING INTERFACE FOR SWEDEN

SCOPE

This specification defines an interface between a public network and a PLMN based on the GSM standard. This specification is based on prETS 300 303 (April 1994) ISDN-PLMN (GSM) Signalling interface and consists of comments, additions or deletions to the ETS. The paragraph numbers refer to the paragraph numbers in the prETS 300 303.

INTRODUCTION

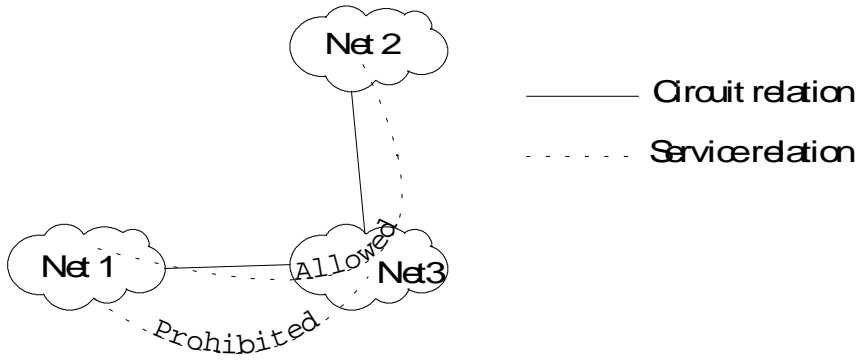
Since pr ETS 300 303 does not cover all requirements, some additional parameters and procedures are added. The addition of call diversion services shall be based on ETS 300 356-15. Since that is not published yet, the coding have been described according to ITU-T Rec. Q.732 (to which the ETSI document is an exceptions document) and ITU-T Rec. Q.763 The procedure for location number is covered in ITU-T Rec. Q.764. In Annex 1 the coding of additional parameters are given. This is given for illustrative purpose. If there is a deviation between it and ITU-T Rec. Q.763 the ITU Rec. Q.763 shall be applied with the exception for the parameter compatibility information parameter.

Revision information

Revision	Remark
Revision B	Addition of new point code value (0000010) in the nature of adress indicator in the called party number in the IAM



Uppgjord - prepared Telefoni Ahe, RB	Faktaansvarig - Subject responsible	Nr - No 8211-A325	
Dokumentansvarig/Godkänd - Document responsible/Approved Telefoni Bengt Estmalm	Datum - Date 98-06-15	Rev B	File/Tillhör S-klass

Paragraph number	Comments, additions or deletions
1 Scope	<p>Supplementary services</p> <p>Each supplementary service to be introduced between the networks requires bilateral agreements between the operators. However, a transit network may support the transport of supplementary service information in spite of that there is no bilateral agreement between the operators to provide the service. See figure 1.</p>
	<p>The interface allows for the following additional supplementary services:</p> <ul style="list-style-type: none"> - Call forwarding unconditional (CFU); - Call forwarding busy (CFB); - Call forwarding no reply (CFNR); - Call deflection (CD)
	 <p>Figure 1</p> <p>Network 3 can work as a transit network for a service between network 1 and 2 without having bilateral agreement for the service with operator 1.</p>



Uppgjord - prepared Telefoni Ahe, RB	Faktaansvarig - Subject responsible	Nr - No 8211-A325			
Dokumentansvarig/Godkänd - Document responsible/Approved Telefoni Bengt Estmalm	Datum - Date 98-06-15	Rev B	File/Tillhör	S-klass	

Paragraph number	Comments, additions or deletions
	<p style="text-align: center;">Additional parameters</p> <p>See Annex 1</p> <p>An additional parameter is added to provide the identification of the location of the calling subscriber and the identity of the calling network.</p> <p>Some additional parameters are provided to support the call diversion services.</p> <p>Parameter compatibility information parameter is added to align with 1992 years ISUP recommendation and the later addition of bits G and F in that parameter.</p>
2 Normative references	Applicable
3 Symbols and abbreviations	Applicable
4 Modification to ETS 300 121	Applicable, with the comments, additions and deletions mentioned for each section below.
4.1 Formats and codes	See comments to annex B (to ETS 300 121) and additions in annex 1 (to 8211-A325)



Uppgjord - prepared Telefoni Ahe, RB	Faktaansvarig - Subject responsible	Nr - No 8211-A325			
Dokumentansvarig/Godkänd - Document responsible/Approved Telefoni Bengt Estmalm	Datum - Date 98-06-15	Rev B	File/Tillhör	S-klass	

Paragraph number	Comments, additions or deletions
4.2.1 Basic call procedures Calls from the PLMN to the fixed network	<p style="text-align: center;">TABLE 5/Q 7.67 (exceptions to Q.764)</p> <p>2.1.2 Forward address signalling En bloc operation Only en bloc operation is applicable. SAMs are not used</p> <p>2.1.8 Continuity check Continuity check is not applied at the interface: This means that the value 01 Continuity check required is not applied. However, the value 10 continuity check performed on previous circuit must be understood and reacted on in appropriate way. This also includes the receipt of the continuity signal.</p>
	<p>Internal network number The coding of the bit is agreed between the GSM operators. The fixed network just passes the value.</p> <p>User service information No screening is made by the fixed network on the received values of User service information field.</p>
4.2.2. Basic call procedures Calls from the fixed network to the PLMN	<p style="text-align: center;">TABLE 5/Q 7.67 (exceptions to Q.764)</p> <p>2.1.2 Forward address signalling En bloc operation Only en bloc operation is applicable. SAMs are not used</p> <p>2.1.8 Continuity check Continuity check is not applied at the interface: This means that the value 01 Continuity check required is not applied. However, the value 10 continuity check performed on previous circuit must be understood and reacted on in appropriate way. This also includes the receipt of the continuity signal.</p>



Uppgjord - prepared Telefoni Ahe, RB	Faktaansvarig - Subject responsible	Nr - No 8211-A325			
Dokumentansvarig/Godkänd - Document responsible/Approved Telefoni Bengt Estmalm	Datum - Date 98-06-15	Rev B	File/Tillhör	S-klass	

Paragraph number	Comments, additions or deletions
4.2.2.1.1 IAM	Called party number Nature of adress 0000010, 0000011.0000100 are applicable. The definition of the traffic cases that make use of the code point 0000010 requires bilateral agreement.
4.2.2.1.1 IAM	Calling party adress Both international 000 0100 and national significant number 000 0011 are applicable.
5 Message transfer part (MTP)	Applicable, with the comments, additons and deletions mentioned below: The MTP protocol shall conform with 8211 A 304. The NI value 3 is used between the networks. It is up to each network to decide which value to be used inside the network.
Annex A	Informative
Annex B.1, General	NOTE: Each supplementary service requires bilateral agreement between the concerned operator.



Uppgjord - prepared Telefoni Ahe, RB	Faktaansvarig - Subject responsible	Nr - No 8211-A325			
Dokumentansvarig/Godkänd - Document responsible/Approved Telefoni Bengt Estmalm	Datum - Date 98-06-15	Rev B	File/Tillhör	S-klass	

Paragraph number	Comments, additions or deletions
Annex B.1, General functions of messages and signals	<p style="text-align: center;">Table 2/Q.767 (exceptions to Q.762)</p> <ul style="list-style-type: none">- 1.37. Subsequent address message is not applicable- 2.5 Call forwarding may occur indicator is replaced by the ISUP 1992 definition.- The following ISUP-1992 parameters are added:- 2.7 Call diversion information- 2.8 Call diversion may occur indicator.- 2.53 Generic notification- 2.76 Location number, is added- 2.100 Original called number- 2.105 Parameter compatibility information- 2.117 Redirecting number- 2.121 Redirection information- 2.122 Redirection number- 2.123 Redirection number restriction <p>All definitions to information elements contained in the above listed parameters are also added.</p>
	<p style="text-align: center;">Table 3/Q.767 (mandatory and optional parameters, Q.762)</p> <p>The parameters listed as additions to table 2 are all optional parameters except the location number that is mandatory. See also comments to tables in table 4 (Q.763) to see in which messages the new parameters are carried.</p>



Uppgjord - prepared Telefoni Ahe, RB	Faktaansvarig - Subject responsible	Nr - No 8211-A325			
Dokumentansvarig/Godkänd - Document responsible/Approved Telefoni Bengt Estmalm	Datum - Date 98-06-15	Rev B	File/Tillhör	S-klass	

Paragraph number	Comments, additions or deletions
Annex B.2 Formats and codes	<p style="text-align: center;">Table 4/Q.767 (exceptions to Q.763)</p> <ul style="list-style-type: none">- 2.1 Message type Subsequent address is not used.- 3.1 The parameters according to annex 1 to 8211-A325 (this document) shall be added. <p>TABLE 5 Address complete message shall be enhanced with:</p> <ul style="list-style-type: none">Generic notification indicatorsRedirection numberRedirection number restriction indicatorCall diversion information <p>TABLE 6 Answer message shall be enhanced with:</p> <ul style="list-style-type: none">Redirection number restriction indicator <p>TABLE 7 Call progress message shall be enhanced with:</p> <ul style="list-style-type: none">Generic notification indicatorCall diversion informationRedirection numberRedirection number restriction indicator <p>TABLE 11 Connect message shall be enhanced with:</p> <ul style="list-style-type: none">Redirection number restriction indicator <p>TABLE 16 Initial address message shall be enhanced with:</p> <ul style="list-style-type: none">Redirecting numberRedirection informationOriginal called numberLocation number
Annex C Examples of echo control procedures	Applicable