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Technical Specification

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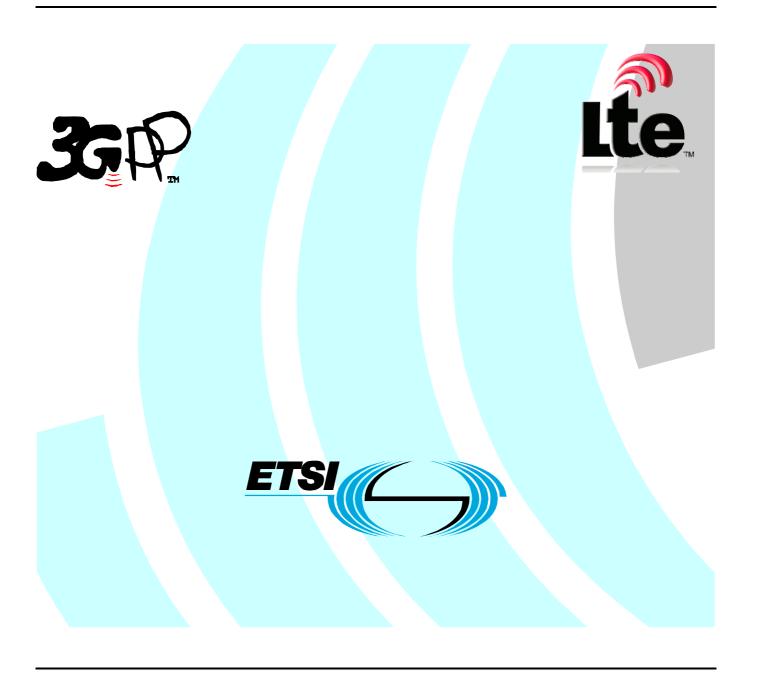
LTE;

Evolved Packet System (EPS);

3GPP Sv interface (MME to MSC, and SGSN to MSC)

for SRVCC

(3GPP TS 29.280 version 9.4.0 Release 9)



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Foreword

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1 Scope

The present document describes the Sv interface between the Mobility Management Entity (MME) or Serving GPRS Support Node (SGSN) and 3GPP MSC server enhanced for SRVCC. Sv interface is used to support Inter-RAT handover from VoIP/IMS over EPS to CS domain over 3GPP UTRAN/GERAN access or from UTRAN (HSPA) to 3GPP UTRAN/GERAN access.

If there is no specific indication, the term "MSC server" denotes 3GPP MSC server enhanced for SRVCC as defined in 3GPP TS 23.216 [2].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". [1] [2] 3GPP TR 23.216: "Single Radio Voice Call Continuity (SRVCC)". [3] 3GPP TS 29.274: "Evolved GPRS Tunnelling Protocol for Control Plane (GTPv2-C)". 3GPP TS 23.003: "Numbering, addressing and identification". [4] [5] 3GPP TS 23.007: "Restoration Procedures". 3GPP TS 33.401: "3GPP System Architecture Evolution (SAE): Security architecture". [6] [7] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3". 3GPP TS 48.008: "Mobile Switching Centre - Base Station System (MSC - BSS) interface; Layer [8] 3 specification". [9] 3GPP TS 25.413: "UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling". 3GPP TS 33.102: "3G Security; Security architecture". [10] [11] 3GPP TS 29.002: "Mobile Application Part (MAP) specification; Stage 3".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

3.2 **Symbols**

For the purposes of the present document, the following symbols apply:

3.3 **Abbreviations**

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

Session Transfer Number for SRVCC: see 3GPP TS 23.003 [4]. STN-SR

MME/SGSN MME or SGSN. C-MSISDN Correlation MSISDN.

4 **General Description**

This document describes the Sv interface related procedures, message parameters and protocol specifications. The Sv messages are based on GTP. The message format, IE coding, and protocol error handling for Sv is per GTP as specified in 3GPP TS 29.274 [3].

The general rules for IP address and UDP port number handling for the GTP messages on the Sv interface is per 3GPP TS 29.274 [3].

Sv Messages and Information Elements 5

5.1 Introduction

The Sv application defines a set of messages between the MME/SGSN and MSC Server to provide SRVCC as defined in 3GPP TS 23.216 [2]. The Sv message header is defined in 3GPP TS 29.274 [3]. The messages to be used and the information elements are described in the following sections.

5.2 Sv Messages

5.2.1 General

Sv Message Type value is defined in 3GPP TS 29.274 [3]. The message format is coded as per GTP in 3GPP TS 29.274 [3].

Table 5.2.1: Message types for Sv interface

Message Type	Message	Reference
value (Decimal)		
0	Reserved	3GPP TS 29.274 [3]
1	Echo Request	3GPP TS 29.274 [3]
2	Echo Response	3GPP TS 29.274 [3]
3	Version Not Supported Indication	3GPP TS 29.274 [3]
4-24	Reserved for S101 interface	3GPP TS 29.274 [3]
25	SRVCC PS to CS Request	5.2.2
26	SRVCC PS to CS Response	5.2.3
27	SRVCC PS to CS Complete Notification	5.2.4
28	SRVCC PS to CS Complete Acknowledge	5.2.5
29	SRVCC PS to CS Cancel Notification	5.2.6
30	SRVCC PS to CS Cancel Acknowledge	5.2.7
31	For future Sv interface use	-
32-255	Reserved for GTPv2	3GPP TS 29.274 [3]

The GTPv2-C messages shall be sent per UE on the Sv interface.

There shall be one pair of TEID-C per UE on the Sv interface. The same tunnel shall be shared for the control messages related to the same UE operation.

The TEID field in the SRVCC PS to CS Request message header shall be set to "0" because this is the first message the the MME/SGSN sends to the MSC server to establish the tunnel for a UE.

The TEID field in the SRVCC PS to CS Cancel Notification message header shall be set to "0" if the message is sent before reception of the acceptance response to the SRVCC PS to CS Request. If the MME/SGSN sends the SRVCC PS to CS Cancel Notification message after the acceptance response to the SRVCC PS to CS Request, the TEID field of the SRVCC PS to CS Cancel Notification message may be set to the MSC Server"s TEID value received in the SRVCC PS to CS Response message. Therefore the MSC Server shall be able to accept the SRVCC PS to CS Cancel Notification messages with "0" or non-zero TEID in the message header.

5.2.2 SRVCC PS to CS Request

A SRVCC PS to CS Request message shall be sent across Sv interface from the MME/SGSN to the target MSC server as part of the MME/SGSN SRVCC procedure in 3GPP TS 23.216 [2].

Table 5.2.2 specifies the presence requirements and conditions of the IEs in the message.

Table 5.2.2: Information Elements in a SRVCC PS to CS Request

Information elements	Р	Condition / Comment	IE Type	Ins.
IMSI	С	This IE shall be included in the message except for the cases:	IMSI	0
		The UE is emergency attached and it is UICCless		
		 The UE is emergency attached and the IMSI is not authenticated 		
ME Identity (MEI)	С	This IE shall be included in the message for the following cases:	MEI	0
		The UE is emergency attached and it is UICCless		
		The UE is emergency attached and the IMSI is not authenticated		
	CO	This IE shall be included for all SRVCC calls if available in		
		the MME or SGSN (NOTE 2).		
Sv Flags	С	The following flags are applicable:	Sv Flags	0
		EmInd: this flag shall be sent if this session is for		
		an emergency call.		
		ICS: this flag shall be sent to request IMS Centralized Service support.		
MME/SGSN Sv	М	This IE specifies the address for control plane message	IP-Address	0
Address for Control Plane		which is chosen by the source MME/SGSN		
MME/SGSN Sv TEID	М	This IE specifies the tunnel for control plane message	TEID-C	0
for Control Plane		which is chosen by the source MME/SGSN. The target MM shall include this TEID in the GTP header of all related		
		control plane messages which are related to the requested		
		bearer.		
C-MSISDN	С	The MME/SGSN shall include C-MSISDN IE in the	MSISDN	0
		message except for the cases:		
		The UE is emergency attached and it is UICCless		
		The UE is emergency attached and the IMSI is not authenticated		
		The C-MSISDN is defined in 3GPP TS 23.003 [4].		
STN-SR	С	The MME/SGSN shall include STN-SR IE if this session is	STN-SR	0
		not for an emergency call.		
MM Context for E-	С	The MME shall include mobile station classmarks,	MM Context for E-	0
UTRAN SRVCC		supported codecs, and CS Security key in MM Context for	UTRAN SRVCC	
		SRVCC for E-UTRAN SRVCC. The derivation of the CS security keys shall follow the		
		procedures defined 3GPP TS 33.401[7].		
MM Context for	С	The SGSN shall include mobile station classmarks,	MM Context for	0
UTRAN SRVCC		supported codecs, and CS Security key in MM Context for	UTRAN SRVCC	
		SRVCC for UTRAN (HSPA) SRVCC.		
		The derivation of the CS security keys shall follow the		
Source to Target	М	procedures defined 3GPP TS 33.102[10]. The MME or SGSN shall include Source to Target	Source to Target	0
Transparent		Transparent Container IE	Transparant	
Container			Container IE	
Target RNC ID	С	This IE shall be used to identify the target access for SRVCC handover to UTRAN (note 1).	Target RNC ID	0
Target Cell ID	С	This IE shall be used to identify the target access for	Target Global Cell	0
		SRVCC handover to GERAN (note 1).	ID	
Private Extension	0	None SRVCC Handover procedure, either Target RNC ID or Targ	Private Extension	VS

NOTE1: Based upon the SRVCC Handover procedure, either Target RNC ID or Target Cell ID shall be present in this message

NOTE2: An MME or SGSN supporting the Sv interface should attempt to get the ME Identity for all SRVCC calls for interception, charging or Automatic Device Detection in the MSC.

5.2.3 SRVCC PS to CS Response

A SRVCC PS to CS Response message shall be sent across Sv interface as a response to SRVCC PS to CS Request by the MSC server during SRVCC procedure in 3GPP TS 23.216 [2].

Table 5.2.3 specifies the presence requirements and conditions of the IEs in the message.

Cause IE indicates if the SRVCC PS to CS request has been accepted, or not. The request has not been accepted by the target MSC server if the Cause IE value differs from "Request accepted".

Table 5.2.3: Information Elements in a SRVCC PS to CS Response

Information elements	Р	Condition / Comment	IE Type	Ins.		
Cause	М		Cause	0		
SRVCC rejected Cause	M Cause O This IE may be sent if Cause value is differs from "Request accepted". MSC Server may include additional information to indicate the reason for rejecting SRVCC PS to CS request O If the Cause IE contains the value" Request accepted", the target MSC server may include MSC server Sv Address for Control Plane IE in SRVCC PS to CS Response message if target MSC Server decides to use different IP address for the subsequent communication. The source MME/SGSN shall store this MSC server address and use it when sending subsequent control plane messages to this GTP-C tunnel. C The target MSC server shall include MSC server Sv Tunnel Endpoint Identifier for Control Plane IE in SRVCC PS to CS Response message if the Cause IE contains the value "Request accepted". The source MME/SGSN shall include this TEID-C in the GTP-C header of all subsequent uplink control plane messages from the source MME/SGSN to the target MSC servers. C If the Cause IE contains the value "Request accepted", the Container IE is included to carry the Handover command from the target access network.		SRVCC Cause	0		
MSC Server Sv Address for Control Plane	0	target MSC server may include MSC server Sv Address for Control Plane IE in SRVCC PS to CS Response message if target MSC Server decides to use different IP address for the subsequent communication. The source MME/SGSN shall store this MSC server address and use it when sending subsequent control plane messages to this GTP-C		0		
MSC Server Sv TEID for Control Plane	С	Tunnel Endpoint Identifier for Control Plane IE in SRVCC PS to CS Response message if the Cause IE contains the value "Request accepted". The source MME/SGSN shall include this TEID-C in the GTP-C header of all subsequent uplink control plane messages from the source	TEID-C	0		
Target to Source	С		Target to Source	0		
Transparent Container		his IE may be sent if Cause value is differs from "Request cocepted". ISC Server may include additional information to indicate the reason for rejecting SRVCC PS to CS request the Cause IE contains the value" Request accepted", the target MSC server may include MSC server Sv Address for ontrol Plane IE in SRVCC PS to CS Response message target MSC Server decides to use different IP address for the subsequent communication. The source MME/SGSN mall store this MSC server address and use it when tending subsequent control plane messages to this GTP-C tannel. TEID-C sto CS Response message if the Cause IE contains the talue "Request accepted". The source MME/SGSN shall clude this TEID-C in the GTP-C header of all subsequent polink control plane messages from the source the Cause IE contains the value "Request accepted", the IP Address IP Addres				
Private Extension	0	None	Server may include additional information to indicate eason for rejecting SRVCC PS to CS request Cause IE contains the value" Request accepted", the tMSC server may include MSC server Sv Address for roll Plane IE in SRVCC PS to CS Response message let MSC Server decides to use different IP address for ubsequent communication. The source MME/SGSN store this MSC server address and use it when ng subsequent control plane messages to this GTP-C let Endpoint Identifier for Control Plane IE in SRVCC CS Response message if the Cause IE contains the "Request accepted". The source MME/SGSN shall let this TEID-C in the GTP-C header of all subsequent control plane messages from the source (SGSN to the target MSC servers. Cause IE contains the value "Request accepted", Transparant container IE			

5.2.4 SRVCC PS to CS Complete Notification

A SRVCC PS to CS Complete Notification message shall be sent across Sv interface to the source MME/SGSN to indicate the SRVCC handover with CS Domain has been successfully finished during SRVCC procedure in 3GPP TS 23.216 [2].

Table 5.2.4 specifies the presence requirements and conditions of the IEs in the message.

Table 5.2.4: Information Elements in a SRVCC PS to CS Complete Notification

Information elements	Р	Condition / Comment	IE Type	Ins.
IMSI	С	This IE shall be included in the message except for the cases: • The UE is emergency attached and it is UICCless • The UE is emergency attached and the IMSI is not authenticated	IMSI	0
Private Extension	0	None	Private Extension	VS

5.2.5 SRVCC PS to CS Complete Acknowledge

A SRVCC PS to CS Complete Acknowledge message shall be sent across Sv interface as a response to SRVCC PS to CS Complete Notification during SRVCC handover with CS Domain in 3GPP TS 23.216 [2].

Table 5.2.5 specifies the presence requirements and conditions of the IEs in the message.

Table 5.2.5: Information Elements in a SRVCC PS to CS Complete Acknowledge

Information elements	Р	Condition / Comment	IE Type	Ins.
Cause	M	None	Cause	0
Private Extension	0	None	Private Extension	VS

5.2.6 SRVCC PS to CS Cancel Notification

A SRVCC PS to CS Cancel Notification message shall be sent across Sv interface from the MME/SGSN to the target MSC server to request the cancellation of an ongoing SRVCC handover.

Table 5.2.6 specifies the presence requirements and conditions of the IEs in the message.

Table 5.2.6: Information Elements in a SRVCC PS to CS Cancel Notification

Information elements	Р	Condition / Comment	IE Type	Ins.
IMSI	С	This IE shall be included in the message except for the cases: The UE is emergency attached and it is UICCless The UE is emergency attached and the IMSI is not authenticated	IMSI	0
Cancel Cause	М	MME/SGSN indicates the reason for Handover cancellation	SRVCC Cause	0
ME Identity (MEI)	С	This IE shall be included in the message for the following cases: The UE is emergency attached and it is UICCless The UE is emergency attached and the IMSI is not authenticated	MEI	0
Private Extension	0	None	Private Extension	VS

5.2.7 SRVCC PS to CS Cancel Acknowledge

A SRVCC PS to CS Cancel Acknowledge message shall be sent across Sv interface as a response to SRVCC PS to CS Cancel Notification.

Table 5.2.7 specifies the presence requirements and conditions of the IEs in the message.

Table 5.2.7: Information Elements in a SRVCC PS to CS Cancel Acknowledge

Information elements	Р	Condition / Comment	IE Type	Ins.
Cause	M	None	Cause	0
Sv Flags	С	 The following flags are applicable: STI: this flag shall be sent if the MSC Server has started the IMS session transfer procedure. 	Sv Flags	0
Private Extension	0	None	Private Extension	VS

5.3 Path Management Messages

5.3.1 Introduction

The following GTP-C v2 messages support path management for the Sv interface:

- Echo Request
- Echo Response

Version Not Supported

These messages are defined for GTP-Cv2 and the handling and definition shall also be as defined in GTP-Cv2, see 3GPP TS 29.274 [3].

5.3.2 Echo Request message

3GPP TS 29.274 [6] specifies the information elements included in the Echo Request message.

5.3.3 Echo Response message

3GPP TS 29.274 [3] specifies the information elements included in the Echo Response message.

5.3.4 Version Not Supported message

3GPP TS 29.274 [3] specifies the detailed handling and information elements included in the Version Not Supported message.

5.4 Reliable Delivery of Signalling Messages

This is performed as according to GTPv2 in 3GPP TS 29.274 [3].

5.5 Error Handling

This is performed as according to GTPv2 in 3GPP TS 29.274 [3].

5.6 Restoration and Recovery

This is performed as according to GTPv2 in 3GPP TS 23.007 [5].

6 Sv Information Elements

6.1 General

IE type value used in Sv Message is defined in TS 29.274 [3]. The IE format is coded as per GTP in TS 29.274 [3].

Table 6.1 shows the IEs used for SRVCC. Within information elements, certain fields may be described as spare. These bits shall be transmitted with the value set to 0. To allow for future features, the receiver shall not evaluate these bits.

Table 6.1-1: Information Elements for SRVCC

IE Type value (Decimal)	Information elements	Comment / Reference
0	Reserved	3GPP TS 29.274 [3]
1	International Mobile Subscriber Identity (IMSI)	3GPP TS 29.274 [3]
2	Cause	3GPP TS 29.274 [3]
3	Recovery (Restart Counter)	3GPP TS 29.274 [3]
4-50	Reserved for S101 interface	3GPP TS 29.274 [3]
51	STN-SR	6.2
52	Source to Target Transparent Container	6.3
53	Target to Source Transparent Container	6.4
54	MM Context for E-UTRAN SRVCC	6.5
55	MM Context for UTRAN SRVCC	6.6
56	SRVCC Cause	6.7
57	Target RNC ID	6.8
58	Target Global Cell ID	6.9

IE Type value	Information elements	Comment / Reference
(Decimal)		
59	TEID-C	6.10
60	Sv Flags	6.11
61-70	For future Sv interface use	-
71-73	Reserved for GTPv2	3GPP TS 29.274 [3]
74	IP Address	3GPP TS 29.274 [3]
75	Mobile Equipment Identity (MEI)	3GPP TS 29.274 [3]
76	MSISDN	3GPP TS 29.274 [3]
77-254	Reserved for GTPv2	3GPP TS 29.274 [3]
255	Private Extension	3GPP TS 29.274 [3]

6.2 STN-SR

STN-SR is transferred via GTP tunnels. The sending entity copies the value part of the STN-SR into the Value field of the STN-SR IE. STN-SR is defined in 3GPP TS 23.003 [4].

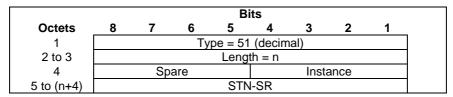


Figure 6.2-1: STN-SR

6.3 Source to Target Transparent Container

The Source to Target Transparent Container contains RAN/BSS parameters that are necessary for the target radio access network to setup radio bearer. When target network is GERAN, this container carries the *Old BSS to New BSS Information* IE defined in 3GPP TS 48.008 [8]. When target network is UTRAN, this container carries the *Source RNC to Target RNC Transparent Container* IE defined in 3GPP TS 25.413 [9]. The Transparent container field includes the IE value part as it is specified in the respective specification.

	Bits							
Octets	8	7	6	5	4	3	2	1
1	Type = 52 (decimal)							
2 to 3	Length = n (decimal)							
4	Spare Instance							
5	Length of the Transparent container							
6 to (n+3)			Tra	nspare	nt conta	iner		

Figure 6.3-1: Source to Target Transparent Container

6.4 Target to Source Transparent Container

The Transparent container field includes the IE value part as it is specified in the respective specification.

	Bits							
Octets	8	7	6	5	4	3	2	1
1	Type = 53 (decimal)							
2 to 3	Length = n							
4		Spare Instance						
5	Length of the Transparent container							
6 to (n+4)	•	•	Tra	nspare	nt conta	iner		

Figure 6.4-1: Target to Source Transparent Container

6.5 MM Context for E-UTRAN SRVCC

The MM Context information element contains mobile station classmarks, supported codec list, and the security parameters that are necessary for the MSC server to setup the ciphering connection (and integrity protection for 3G) with the target access for SRVCC. CS ciphering keys parameters: CK_{SRVCC} , IK_{SRVCC} , and eKSI for E-UTRAN SRVCC are defined in 3GPP TS 33.401 [6]. Mobile Station Classmark 2, Mobile Station Classmark 3, and Supported Codec List information Elements indicates the supported encryption algorithm for GERAN access and CS supported codec. The coding of Mobile Station Classmarks and Supported Codec List fields include the IE value part as it is specified in 3GPP TS 24.008 [7].

				В	its				
Octets	8	7	6	5	4	3	2	1	_
1 [Ту	pe = 54	(decin	nal)			
2 to 3				Leng	th = n				
4		Sp	are			Inst	ance		
5			Spare				eKSI		
6 to 21		CK _{SRVCC}							
22 to 37	IK _{SRVCC}								
38	Length of the Mobile Station Classmark 2								
39 to a	Mobile Station Classmark 2								
b		Lengt	h of the	Mobile	Station	n Classi	mark 3		
(b+1) to c	Mobile Station Classmark 3								
d	Length of the Supported Codec List								
(d+1) to			Su	pported	Codec	List			
(n+4)									

Figure 6.5-1: MM Context for E-UTRAN SRVCC

6.6 MM Context for UTRAN SRVCC

The MM Context information element contains mobile station classmarks, supported codec list, and the security parameters that are necessary for the MSC server to setup the ciphering connection (and integrity protection for 3G) with the target access for SRVCC. The usage of CK"_{CS}, IK"_{CS}, KSI"_{CS}, KC", CKSN"_{CS} are defined in 3GPP TS 33.102 [10].

Mobile Station Classmark 2, Mobile Station Classmark 3, and Supported Codec List information Elements indicates the supported encryption algorithm for GERAN access and CS supported codec. The coding of Ciphering Key Sequence Number, Mobile Station Classmarks, and Supported Codec List fields include the IE value part as it is specified in 3GPP TS 24.008 [7]

	Bits								
Octets	8	7	6	5	4	3	2	1	
1		Type = 55 (decimal)							
2 to 3				Leng	th = n				
4		Sp	are			Inst	ance		
5		Sp	are			KS	SI"cs		
6 to 21				CK	"cs				
22 to 37				IK	"cs				
38 to 45			Ci	iphering	Key (K	(c)			
46	CKSN" _{CS}								
47	Length of the Mobile Station Classmark 2								
48 to a			Mobile	Station	n Classi	mark 2			
b	Length of the Mobile Station Classmark 3								
(b+1) to c	Mobile Station Classmark 3								
d	Length of the Supported Codec List								
(d+1) to	Supported Codec List								
(n+4)									

Figure 6.6-1: MM Context for UTRAN SRVCC

6.7 SRVCC Cause

SRVCC Cause IE is coded as this is depicted in Figure 6.7-1.

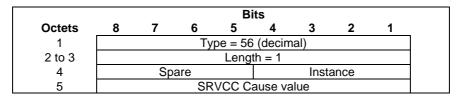


Figure 6.7-1: SRVCC Cause

The SRVCC Cause value indicates the reason for cancellation or the rejection of the SRVCC PS to CS Request.

Table 6.7-1: SRVCC Cause values

Cause value (decimal)	Meaning
0	Reserved. Shall not be sent and if received the Cause shall be treated as an invalid IE
1	Unspecified
2	Handover/Relocation cancelled by source system
3	Handover /Relocation Failure with Target system
4	Handover/Relocation Target not allowed
5	Unknown Target ID
6	Target Cell not available
7	No Radio Resources Available in Target Cell
8	Failure in Radio Interface Procedure
9-255	Spare. This value range is reserved for SRVCC Cause values

6.8 Target RNC ID

This IE shall contain the identity of the target RNC. The encoding of this IE is defined in 3GPP TS 29.002 [11].

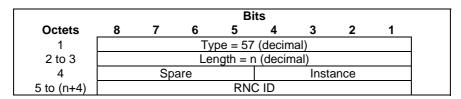


Figure 6.8-1: Target RNC ID

6.9 Target Global Cell ID

This IE shall contain the identity of the target GSM Cell ID. The encoding of this IE is defined in 3GPP TS 29.002 [11].

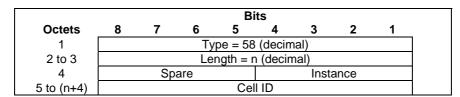


Figure 6.9-1: Target Cell ID

6.10 Tunnel Endpoint Identifier for Control Plane (TEID-C)

Tunnel Endpoint Identifier for Control Plane (TEID-C) is coded as depicted in Figure 6.10-1.

				Bi	ts			
Octets	8	7	6	5	4	3	2	1
1		Type = 59 (decimal)						
2-3			Le	ngth = 4	l (decin	nal)		
4	Spare Instance							
5-8	Tunnel Endpoint Identifier for Control Plane (TEID-C)							
9-(n+4)	Thes	se octet	(s) is/ar	e prese	nt only	if explic	itly spe	cified

Figure 6.10-1: Tunnel Endpoint Identifier for Control Plane (TEID-C)

6.11 Sv Flags

Sv Flags is coded as depicted in Figure 6.11-1.

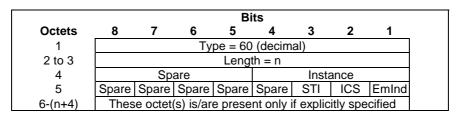


Figure 6.11-1: Sv Flags

The following bits within Octet 5 indicate:

- Bit 1 EmInd (Emergency Indicator): This flag is used to indicate the IMS emergency session.
- Bit 2 ICS (IMS Centralized Service): This flag is used to request ICS support.
- Bit 3 STI (Session Transfer Indicator): This flag is used to indicate IMS session transfer has been invoked.

Annex A (informative): Change history

Date	TSG #	TSG Doc	CT4 Doc	CR	Rev	Cat	Subject/Comment	Old	New
2008-12	CT#42	CP-080715			V2.0.0 approved in CT#42		2.0.0	8.0.0	
2009-03	CT#43	CP-090047	C4-090919	0001	3	F	Finalizing Sv spec	8.0.0	8.1.0
2009-09	CT#45	CP-090544	C4-091655	0003	0003 Definition of TEID-C IE		8.1.0	8.2.0	
2009-09	CT#45	CP-090544	C4-091860	0004		Cleanup of ENs			
2009-09	CT#45	CP-090544	C4-092117	0005	2		HSPA security parameter alignment		
2009-09	CT#45	CP-090561	C4-091939	0006	2		IMEI Changes for SRVCC	8.2.0	9.0.0
2009-12	CT#46	CP-090777	C4-094068	0011	1		MSISDN Correction	9.0.0	9.1.0
2009-12	CT#46	CP-090825	-	0012	2		Alignment with stage 2 for SRVCC HO cancellation procedure		
2010-03	CT#47	CP-100027	C4-1000422	0015		F	TEID-C, IP Address and UDP Port handling on Sv interface	9.1.0	9.2.0
		CP-100027	C4-100432	0018		F	IE type value correction		
		CP-100047	C4-100425	0016		F	IMSI IE presence corrections		
2010-06	CT#48	CP-100280	C4-101534	0020	1	F	Session continuity terminology is not	9.2.0	9.3.0
							correct		
2010-09	CT#49	CP-100457	C4-102409	0021	2	F	IMEI over the Sv Interface	9.3.0	9.4.0

History

	Document history					
V9.1.0	January 2010	Publication				
V9.2.0	April 2010	Publication				
V9.3.0	June 2010	Publication				
V9.4.0	October 2010	Publication				