

HLR Subscriber Data Type Definitions

Ericsson Dynamic Activation 1

DATA TYPE DESCRIPT.

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1 Introduction

This section contains information about the prerequisites, purpose, scope, and target group for the document. This section also contains explanations of typographic conventions used in this document.

1.1 Purpose and Scope

This document describes all Home Location Register (HLR) Subscriber Data Definitions, that exist in Ericsson™ Dynamic Activation (EDA).

1.2 Target Groups

The target groups for this document are as follows:

- System Integrator
- Network Administrator

For more information on target groups, see *Library Overview*, Reference [2].

1.3 Typographic Conventions

Typographic conventions are described in *Library Overview*, Reference [2].

1.4 Prerequisites

To use this document fully, user must meet the following prerequisites:

- Basic knowledge about the Dynamic Activation product
- Knowledge about HLR layered interfaces.





2 Data Type Definitions

This section defines data types mentioned in this document. The following data types are explained here:

- `bs`, see Section 2.1 on page 3
- `bsg`, see Section 2.2 on page 4
- `cpd`, see Section 2.3 on page 6
- `ss`, see Section 2.4 on page 7
- `sud`, see Section 2.5.2 on page 9
- `rid`, see Section 2.5.1 on page 9
- `tdp`, see Section 2.6 on page 32

2.1 Basic Service

This section cover BS.

When a certain BS (a Bearer Service or Teleservice) is not supported by the system, the corresponding string cannot be recognized by it.

The following table covers the available BS codes:

Table 1 BS Codes

BS Code	Description	Action ⁽¹⁾
BS21	Bearer service "Data circuit asynchronous 300 b/s"	P/D/T
BS22	Bearer service "Data circuit asynchronous 1200 b/s"	P/D/T
BS23	Bearer service "Data circuit asynchronous 1200-75 b/s"	P/D/T
BS24	Bearer service "Data circuit asynchronous 2400 b/s"	P/D/T
BS25	Bearer service "Data circuit asynchronous 4800 b/s"	P/D/T
BS26	Bearer service "Data circuit asynchronous 9600 b/s"	P/D/T
BS2G	General asynchronous bearer service	P/D/T
BS31	Bearer service "Data circuit synchronous 1200 b/s"	P/D/T



BS Code	Description	Action ⁽¹⁾
BS32	Bearer service "Data circuit synchronous 2400 b/s"	P/D/T
BS33	Bearer service "Data circuit synchronous 4800 b/s"	P/D/T
BS34	Bearer service "Data circuit synchronous 9600 b/s"	P/D/T
BS3G	General synchronous bearer service	P/D/T
TS11	Teleservice "Telephony"	P/D/T
TS21	Teleservice "Short Message MT/PP"	P/D
TS22	Teleservice "Short Message MO/PP"	P/D
TS61	Teleservice "Alternate Speech and Facsimile Group 3"	P/D/T
TS62	Teleservice "Automatic Facsimile Group 3"	P/D/T
TSD1	Teleservice "Auxiliary Telephony"	P/D/T

(1) The actions are explained in Table 2.

The following table contains explanations for the **Action** column in the table above.

Table 2 Actions

Action Identifier	Description
P	This string can be used in the CLI command <code>HECDBDP</code> .
D	This string can appear in the printout initiated by MML command <code>HGSDP</code> (PERMANENT SUBSCRIBER DATA) and in the CLI command <code>HEMSSDP</code> .
T	This string can be used in the MML commands <code>HGCTI</code> and <code>HGCTE</code> to initiate and end CAMEL triggering criteria data, and can also appear in the printout initiated by command <code>HGCMP</code> (HLR CAMEL SUBSCRIPTION DATA). The string can also appear in the response from the CLI command <code>HEMSCMP</code> .

2.2 Basic Service Group

This section covers BSGs.

For information on which Supplementary Services (SSs) apply to a Basic Service Group (BSG), see Table 5.

When a certain Basic Service Group is not supported by the system, the corresponding string cannot be recognized by it.

2.2.1 BSG Identifiers

All Available BSG Identifiers are covered in the following table.



Table 3 BSG Identifiers

BSG Identifier	Description	Action ⁽¹⁾
ALLAS	ALL DATA ASYNCHRONOUS SERVICES	I/E
ALLBES	ALL BEARER SERVICES	I/E
ALLDCA	ALL DATA CIRCUIT ASYNCHRONOUS SERVICES	I/E
ALLDCS	ALL DATA CIRCUIT SYNCHRONOUS SERVICES	I/E
ALLDTS	ALL DATA TELESERVICES	I/E
ALLSYS	ALL DATA SYNCHRONOUS SERVICES	I/E
ALLTS	ALL TELESERVICES	I/E
BS20	ALL DATA CIRCUIT ASYNCHRONOUS SERVICES	I/E/P/C/T
BS30	ALL DATA CIRCUIT SYNCHRONOUS SERVICES	I/E/P/C/T
TS10	ALL SPEECH TRANSMISSION SERVICES	I/E/P/C/T
TS20	ALL SHORT MESSAGE SERVICES	I/E/P
TS60	ALL FACSIMILE TRANSMISSION SERVICES	I/E/P/C/T
TSD0	AUXILIARY SPEECH SERVICES	I/E/P/C/T
TSEXSM	ALL DATA TELESERVICES EXCEPT SHORT MESSAGE SERVICES	I/E

(1) The actions are explained in Table 4.

Table 4 Actions

Action Identifier	Description
I	This string can be used in the MML command HGSSI to initiate a Supplementary Service.
E	This string can be used in the MML command HGSSE to end a Supplementary Service.
P	This string can appear in the printout initiated by MML command HGSDP (SUPPLEMENTARY SERVICE DATA) and in the CLI command HEMSSDP.
C	This string can be used in the MML commands HGCUI, HGCUC, and HGCSC and can appear in the printout initiated by commands HGCSP (HLR CLOSED USER GROUP BASIC SERVICE GROUP OPTIONS DATA) and HGCUP (HLR CLOSED USER GROUP DATA) when the CUG functionality is available.
T	This string can be used in the MML commands HGCTI and HGCTE to initiate and end CAMEL triggering criteria data, and can also appear in the printout initiated by command HGCMP (HLR CAMEL SUBSCRIPTION DATA).

2.2.2 Applicability of SS to BSGs

The following table shows which SSs that apply to which BSGs when using the commands Create Supplementary Service and Delete Supplementary Service.

**Table 5** *Applicability of SS to BSGs*

SS	Basic Service Groups					
	BS20	BS30	TS10	TS20	TS60	TSD0
BAIC	YES	YES	YES	YES	YES	YES
BAOC	YES	YES	YES	YES	YES	YES
BICRO	YES	YES	YES	YES	YES	YES
BOIC	YES	YES	YES	YES	YES	YES
BOIEXH	YES	YES	YES	YES	YES	YES
CFU	YES	YES	YES	-	YES	YES
CFB	YES	YES	YES	-	YES	YES
CFNRC	YES	YES	YES	-	YES	YES
CFNRY	YES	YES	YES	-	YES	YES
CAW	YES	YES	YES	-	YES	YES
SPN	-	-	YES	-	-	-
DCF	YES	YES	YES	-	YES	YES

The following SSs are not used in the commands Create Supplementary Service and Delete Supplementary Service:

ACR	COLR	ICI	RTCA
AOC	CREL	MCA	SERVTL
ASL	CUG	MPTY	TICK
BSL	CUNRL	OICK	TIN
CLIP	ECT	OIN	TTP
CLIR	EMLPP	PLMNO	UNIV
COLP	HOLD		

2.3 CAMEL Profile Data

The parameter CPD is expressed as *<a>-*

<a> is CPD code part

** is CPD value part

The following table covers all accepted values for CPD:

Table 6 *CAMEL Profile Data*

CPD Code Part	Description	CPD Value Part
DCSI	Dialled Services CAMEL Subscription Information	0 = Not provided 1 = Provided



CPD Code Part	Description	CPD Value Part
GPRCSI	GPRS CAMEL Subscription Information	0 = Not provided 1 = Provided
MCSI	Mobility Management CAMEL Subscription Information	0 = Not provided 1 = Provided
OCSI	Originating CAMEL Subscription Information	0 = Not provided 1 = Provided
OSMCSI	Originating SMS CAMEL Subscription Information	0 = Not provided 1 = Provided
TCSI	Terminating CAMEL Subscription Information	0 = Not provided 1 = Provided
TSMCSI	Terminating SMS CAMEL Subscription Information	0 = Not provided 1 = Provided
VTCSI	Visited MSC Terminating CAMEL Subscription Information	0 = Not provided 1 = Provided

2.4 Supplementary Service

This section covers Supplementary Services (SSs).

2.4.1 SS Identifiers

All allowed SS identifiers are listed in the following table.

Table 7 SS Identifiers

SS Identifier	Description	Action ⁽¹⁾
ALLSS	All SSs	D
BAC	All call restriction services	D
BAIC	Barring of all incoming calls	A/D/P
BAOC	Barring of all outgoing calls	A/D/P
BIC	Barring of incoming calls	D
BICRO	Barring of all incoming calls when roaming outside the Home Public Land Mobile Network (PLMN) country	A/D/P
BOC	Barring of outgoing calls	D
BOIC	Barring of all outgoing international calls	A/D/P
BOIEXH	Barring of all outgoing international calls except those directed to the home PLMN country	A/D/P
CAW	Call waiting	A/D/P
CCFS	All conditional forwarding services	R/A/E/D



SS Identifier	Description	Action ⁽¹⁾
CFB	Call forwarding on mobile subscriber busy	R/A/E/D/P
CFNRC	Call forwarding on mobile subscriber not reachable	R/A/E/D/P
CFNRY	Call forwarding on no reply	R/A/E/D/P
CFS	All forwarding services	R/A/E/D
CFU	Call forwarding unconditional	R/A/E/D/P
DCF	Default call forwarding	R/E/P
SPN	Single personal number	R/E/P

(1) The actions are explained in Table 8.

The following table contains explanations for the **Action** column in the table above.

Table 8 Actions

Action Identifier	Description
R	This string can be used in the MML command HGSSI to register a Supplementary Service.
A	This string can be used in the MML command HGSSI to activate a Supplementary Service
E	This string can be used in the MML command HGSSE to erase a Supplementary Service
D	This string can be used in the MML command HGSSE to deactivate a Supplementary Service.
P	This string can appear in the printout initiated by MML command HGSDP (SUPPLEMENTARY SERVICE DATA).

2.4.2 Supplementary Information for SS

The following services cannot be used as arguments of the command parameter SS:

ACR	HOLD
AOC	ICI
ASL	MCA
BSL	MPTY
CLIP	OICK
CLIR	OIN
COLP	PLMNO
COLR	RTCA
CREL	SERVTL
CUG	TICK
CUNRL	TIN
ECT	TTP
EMLPP	UNIV



The services above are used as an argument of command parameter `Subscriber Data (SUD)`, see Section 2.5 on page 9, except for provisioning of the following services:

ASL	PLMNO
BSL	SERVTL
CREL	TTP
CUG	UNIV
CUNRL	

2.5 SUD

2.5.1 RID

Parameter RID can take several values.

If the RID value contains one ampersand (&), several RIDs are specified (one by one). If the value contains two ampersands (&&), the RID range is specified.

Example:

```
RID = 2, 5 and 9-12 => HEMSMP:MSISDNS=msisdns,RID=2&5&9&&12;
```

2.5.2 SUD

SUD is expressed as `<a>--<c>`, where `-<c>` is optional.

`<a>` is a SUD code (string 3-9 characters). See Section 2.5.2.1 on page 9 for acceptable values and explanations.

`` is SUD value part 1 (integer 0-65535). See Section 2.5.2.1 on page 9 for explanations and individual value ranges.

`<c>` is SUD value part 2 (integer 0-4095). See Section 2.5.2.1 on page 9 for explanations and individual value ranges.

2.5.2.1 SUD Codes

The following tables cover all SUD.

**Table 9 SUD Codes ACC-ASL**

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action⁽¹⁾
ACC	Account codes	0 = Not provided 1 = Provided and mandatory 2 = Provided and optional	-	L/P/S/D
ACR	Anonymous call rejection	0 = Not provided 1 = Provided and not active 2 = Provided and active	-	L/P/S/D
AOC	Advice of Charge	0 = Advice of Charge not provided 1 = Advice of Charge information provided 2 = Advice of Charge charging provided	-	L/P/S/D/R
ARD	Access restriction data	0 = no access restriction 1 = UTRAN not allowed 2 = GERAN not allowed	-	L/P/S/D/R/I
ASL	Semi-autonomous self location mobile originating location services LCS class	0 = Not provided 1 = Provided	-	L/D

(1) Actions are explained in Table 27.

Table 10 SUD Codes BAIC-BOIEXH

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action⁽¹⁾
BAIC	Barring of all incoming calls	0 = Not provided 1 = Provided	-	L/P/S/D/R/I
BAOC	Barring of all outgoing calls	0 = Not provided 1 = Provided	-	L/P/S/D/R/I
BICRO	Barring of all incoming calls when roaming outside the home PLMN country	0 = Not provided 1 = Provided	-	L/P/S/D
BOIC	Barring of all outgoing international calls	0 = Not provided 1 = Provided	-	L/P/S/D/R/I
BOIEXH	Barring of all outgoing international calls except those directed to the home PLMN country	0 = Not provided 1 = Provided	-	L/P/S/D/R/I

(1) Actions are explained in Table 27.



Table 11 SUD Codes BS21-BS2G

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
BS21	Bearer service "Data circuit asynchronous 300 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
BS22	Bearer service "Data circuit asynchronous 1200 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
BS23	Bearer service "Data circuit asynchronous 1200-75 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
BS24	Bearer service "Data circuit asynchronous 2400 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
BS25	Bearer service "Data circuit asynchronous 4800 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
BS26	Bearer service "Data circuit asynchronous 9600 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
BS2F	Fallback asynchronous bearer service ⁽⁴⁾⁽⁵⁾	0 = No fallback bearer service subscribed 1 = The fallback bearer service is BS21 2 = The fallback bearer service is BS22 3 = The fallback bearer service is BS24 4 = The fallback bearer service is BS25 5 = The fallback bearer service is BS26	-	L/P/S/D
BS2G	General asynchronous bearer service ⁽⁴⁾⁽⁶⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D

(1) Actions are explained in Table 27.

(2) Incompatible with BS2G when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), and their values are different from zero.

(3) Incompatible with BS2F when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), and their values are different from zero.

(4) Incompatible with BS21, BS22, BS23, BS24, BS25, and BS26, when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), and their values are different from zero.

(5) Incompatible with BS2G when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), BS2G value is zero and BS2F value is different from zero.

(6) Incompatible with BS2F when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), BS2G value is zero and BS2F value is different from zero.

Table 12 SUD Codes BS31-BS3G

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
BS31	Bearer service "Data circuit synchronous 1200 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
BS32	Bearer service "Data circuit synchronous 2400 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
BS33	Bearer service "Data circuit synchronous 4800 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
BS34	Bearer service "Data circuit synchronous 9600 b/s" ⁽²⁾⁽³⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
BS3F	Fallback synchronous bearer service ⁽⁴⁾⁽⁵⁾	0 = No fallback bearer service subscribed 1 = The fallback bearer service is BS31 2 = The fallback bearer service is BS32 3 = The fallback bearer service is BS33 4 = The fallback bearer service is BS34	-	L/P/S/D
BS3G	General synchronous bearer service ⁽⁴⁾⁽⁶⁾	0 = Not subscribed 1 = Subscribed	-	L/P/S/D

(1) Actions are explained in Table 27.

(2) Incompatible with BS3G when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), and their values are different from zero.

(3) Incompatible with BS3F when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), and their values are different from zero.

(4) Incompatible with BS31, BS32, BS33, and BS34 when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), and their values are different from zero.

(5) Incompatible with BS3G when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), and BS3G value is zero and BS3F value is different from zero.

(6) Incompatible with BS3F when both SUDs are entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Subscriber Profile* (*sud*), and BS3G value is zero and BS3F value is different from zero.

Table 13 SUD Codes BSL-CBNF

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
BSL	Basic self-location mobile originating LCS class	0 = Not provided 1 = Provided	-	L/D
CAPL	Channel allocation priority level	0 = No priority level assigned 1-14 = Priority level ⁽²⁾ 15 = Priority level not used	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
CAT	Subscriber category	0 = Calling party is unknown at this time 1 = Operator, language French 2 = Operator, language English 3 = Operator, language German 4 = Operator, language Russian 5 = Operator, language Spanish 6 = Available to administrations for selecting a particular language by mutual agreement 7 = Available to administrations for selecting a particular language by mutual agreement 8 = Available to administrations for selecting a particular language by mutual agreement 9 = Reserved 10 = Ordinary calling subscriber 11 = Calling subscriber with priority 12 = Data call (voice band data) 13 = Test call 14 = Not used 15 = Payphone 16-223 = Not used 224-254 = National use 255 = Not used 256 = No Subscriber Category induced in a roaming service induction profile.	-	L/P/S/D/I
CAW	Call waiting	0 = Not provided 1 = Provided	-	L/P/S/D
CBNF	Call barring notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D

(1) Actions are explained in Table 27.

(2) A lower number means a higher priority



Table 14 SUD Codes CFB-CWNF

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
CFB	Call forwarding on mobile subscriber busy	0 = Not provided 1 = Provided	-	L/P/S/D/R
CFNF	Call forwarding notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
CFNRC	Call forwarding on mobile subscriber not reachable	0 = Not provided 1 = Provided	-	L/P/S/D/R
CFNRY	Call forwarding on no reply	0 = Not provided 1 = Provided	-	L/P/S/D/R
CFU	Call forwarding unconditional	0 = Not provided 1 = Provided	-	L/P/S/D/R
CHNF	Call hold notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
CLIP	Calling line identification presentation	0 = Not provided 1 = Provided	-	L/P/S/D
CLIPNF	Calling line identification presentation notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
CLIR	Calling line identification restriction	0 = Not provided 1 = Provided	-	L/P/S/D
CLIRNF	Calling line identification restriction notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
COLP	Connected line identification presentation	0 = Not provided 1 = Provided	-	L/P/S/D
COLR	Connected line identification restriction	0 = Not provided 1 = Provided	-	L/P/S/D
CREL	Call/session related LCS privacy class	0 = Not provided 1 = Provided	-	L/D
CSP	CAMEL subscription profile	0 = No CAMEL 1-8160 = CAMEL subscription profile	-	L/P/S/D
CUG	Closed user group	0 = Not provided 1 = Provided	-	L/P/S/D
CUNRL	Call/session unrelated LCS privacy class	0 = Not provided 1 = Provided	-	L/D
CWNF	Call waiting notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D

(1) Actions are explained in Table 27.



Table 15 SUD Codes DBSG-GSAP

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
DBSG	Default basic service group	1 = All speech transmission services (TS10) 2 = Not used 3 = All facsimile transmission services (TS60) 4 = Not used 5 = All data circuit asynchronous services (BS20) 6 = All data circuit synchronous Services (BS30)	-	L/P/S/D
DCF	Default call forwarding	0 = Not registered 1 = Registered	-	L
DCSI	Dialled services CAMEL subscription information	0 = Not provided 1 = Provided	-	L/D
DCSINF	Dialled services CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
DCSIST	Dialled services CAMEL subscription information activation state	0 = Not Active 1 = Active	-	L/P/S/D
DEMLPP	Enhanced multi-level precedence and preemption default priority level ⁽²⁾⁽³⁾	6 = Priority level A (highest) 5 = Priority level B 0 = Priority level 0 1 = Priority level 1 2 = Priority level 2 3 = Priority level 3 4 = Priority level 4 (lowest)	-	L/P/S/D
ECT	Explicit call transfer	0 = Not provided 1 = Provided	-	L/P/S/D
ECTNF	Explicit call transfer notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
EMLPP	Enhanced multi-level precedence and preemption ⁽⁴⁾	0 = Not provided 1 = Provided	-	L/P/S/D
GPRCSI	General Packet Radio Service (GPRS) Customized Applications for Mobile Networks Enhanced Logic (CAMEL) subscription information	0 = Not provided 1 = Provided	-	L/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
GPRSCSINF	General Packet Radio Service (GPRS) CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
GPRSCSIST	General Packet Radio Service (GPRS) CAMEL subscription information activation state	0 = Not Active 1 = Active	-	L/P/S/D
GRDP	GPRS roaming distribution profile	0 = No profile assigned 1–32 = Roaming distribution profile	-	L/P/S/D
GSAP	gsmSCF profile	0 = No profile assigned 1-255 = gsmSCF profile		L/P/S/D

(1) Actions are explained in Table 27.

(2) Incompatible when entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* commands *Set Subscriber Profile* (*sud*) or *Set Subscriber Data* (*sud*), and its priority level is higher than *MEMLPP* priority level already stored in the database.

(3) Incompatible when entered in the CLI command *HEMSMCI* (*newsud*) or the *CAI3G* command *Set Subscriber Profile* (*sud*), and *DEMLPP* value is higher than *MEMLPP* value.

(4) When the Wireless Priority Service functionality is available, *EMLPP* is incompatible with specific format of stored forwarded-to-number.

Table 16 SUD Codes *HOLD-ISTVSO*

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
HOLD	Call hold	0 = Not provided 1 = Provided	-	L/P/S/D/R
ICI	Immediate call itemization	0 = Not provided 1 = Provided	-	L/P/S/D
IST	Immediate Service Termination (IST) alert timer	0 = Subscriber not under IST condition 15-255 = Subscriber under IST condition, IST alert timer in minutes	-	L/P/S/D
ICS	IMS Centralized Services (ICS) indicator	0= Not Provided 1= Provided	-	L/P/S/D
ISTCSO	IST call subscription option	0 = Call allowed when the IST Alert message is received from G(MSC-VLR). 1 = Call not allowed when the IST Alert message is received from G(MSC-VLR).	-	L/P/S/D

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
ISTGSO	IST GMSC subscription option	0 = Service allowed when IST is not supported in the interrogated GMSC 1 = Only Operator Determined Barring of all incoming calls when IST is not supported in the interrogated GMSC	-	L/P/S/D
ISTVSO	IST VLR subscription option	0 = Service allowed when IST is not supported in the serving VLR 1 = Network induced activation of SS Barring of All Outgoing Calls (BAOC) performed when IST is not supported in the serving VLR	-	L/P/S/D

(1) Actions are explained in Table 27.

Table 17 SUD Codes LMU-NAM

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
LMU	Location measurement unit	0 = Not LMU subscription 1 = LMU subscription	-	L/D
MCA	Missed call alert	0 = Not provided 1 = Provided	-	L/P/S/D
MCSI	Mobility management CAMEL subscription information	0 = Not provided 1 = Provided	-	L/D
MCSINF	Mobility management CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
MCSIST	Mobility management CAMEL subscription information activation state	0 = Not active 1 = Active	-	L/P/S/D
MEMLPP	Enhanced multi level precedence and preemption maximum priority level ⁽²⁾⁽³⁾	6 = Priority level A (highest) 5 = Priority level B 0 = Priority level 0 1 = Priority level 1 2 = Priority level 2 3 = Priority level 3 4 = Priority level 4 (lowest)	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
MMINT	Mobility management Intelligent Network (IN) triggering subscription data. This string is displayed in the Get Subscriber Data Command only if the service is activated for the subscriber.	0 = Not provided 1 = Provided	-	L/D
MPTY	Multiparty service	0 = Not provided 1 = Provided	-	L/P/S/D/R
MRDMCH	Multiple Redundancy Mechanism	1 = Primary HLR identity assigned using the Number Series Analysis Function 2 = Primary HLR identity assigned not using the Number Series Analysis Function	-	L/P/S/D
MRDPID	Multiple Redundancy Primary HLR Identity ^{(4) (5) (6)}	0 = Indicates not redundant subscriber 1-15 = Redundancy Group	1-32 = HLR Identity	L/P/S/D
MSIM	Multiple Subscription	0 = Not active 1 = Active	-	L/D
NAM	Network access mode Only one NAM is allowed as <i>newsud</i> in the CLI command HEMSMCI. The CAI3G command Set Subscriber Data does not apply.	0 = Both GPRS and non-GPRS networks 1 = Only non-GPRS network 2 = Only GPRS network	-	L/P/S/D

(1) Actions are explained in Table 27.

(2) Incompatible when entered in the CLI command HEMSMCI (*newsud*) or the CAI3G commands Set Subscriber Profile (*sud*) or Set Subscriber Data (*sud*), and its priority level is lower than DEMLPP priority level already stored in the database.

(3) Incompatible with DEMLPP when both SUDs are entered in the CLI command HEMSMCI (*newsud*) or the CAI3G command Set Subscriber Profile (*sud*), and the DEMLPP value is higher than the MEMLPP value.

(4) Incompatible with MRDMCH when both SUDs are entered in the CLI command HEMSMCI (parameter *newsud*) and MRDMCH has the value 1.

(5) Incompatible with MRDMCH when both SUDs are entered in the CLI command HEMSMCI (MRDMCH in parameter *sud* and MRDPID in parameter *newsud*) and MRDMCH has the value 1.

(6) Incompatible when entered in the CLI command HEMSMCI (in parameter *sud* or parameter *newsud*) and MRDMCH has the value 1 already stored in the database.



Table 18 SUD Codes OBA-OBMCT

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
OBA	Operator determined barring of all incoming and outgoing calls. ⁽²⁾⁽³⁾	0 = No operator barring of any call, active (in this case the value of OBI as well as OBO must be set to 0) 1 = Operator barring of all calls, active (in this case the value of OBI as well as OBO must be set to 1)	-	S
OBCC	Operator determined barring of collect call dialling automatic call	0 = Not active 1 = Active	-	L/P/S/D
OBCT	Operator determined barring of invocation of call transfer	0 = Not active 1 = Operator determined barring of invocation of Call Transfer, active 2 = Operator determined barring of invocation of Call Transfer where at least one of the two calls is a call charged to the served subscriber, active 3 = Operator determined barring of invocation of Call Transfer where at least one of the two calls is a call charged to the served subscriber at international rates, active 4 = Operator determined barring of invocation of Call Transfer where at least one of the two calls is a call charged to the served subscriber at inter-zonal rates, active	-	L/P/S/D
OB DCT	Operator determined barring of invocation of call transfer where both calls are charged to the served subscriber	0 = Not active 1 = Active	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
OBI	Operator determined barring of all incoming calls ⁽⁴⁾	0 = Not active 1 = Operator determined barring of all incoming calls, active 2 = Operator determined barring of all incoming calls when roaming outside home PLMN country, active	-	L/P/S/D
OBMCT	Operator determined barring of further invocation of call transfer if there is already one ongoing transferred call for the served subscriber in the serving mobile services MSC/VLR.	0 = Not active 1 = Active	-	L/P/S/D

(1) Actions are explained in Table 27.

(2) Incompatible with OBI when both SUDs are entered in the CLI command *HEMSMCI (newsud)* and their values are different.

(3) Incompatible with OBO when both SUDs are entered in the CLI command *HEMSMCI (newsud)* and their values are different.

(4) Incompatible with OBA when both SUDs are entered in the CLI command *HEMSMCI (newsud)* and their values are different.

Table 19 SUD Codes OBO-OBRF

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
OBO	Operator determined barring of all outgoing calls ⁽²⁾	0 = Not active 1 = Operator determined barring of all outgoing calls, active 2 = Operator determined barring of all outgoing international calls, active 3 = Operator determined barring of all outgoing international calls except for those directed to home PLMN country, active 4 = Operator determined barring of all outgoing calls when roaming outside home PLMN country, active	-	L/P/S/D/R
OBOPRE	Operator determined barring of outgoing premium rate calls (entertainment)	0 = Not active 1 = Active	-	L/P/S/D/R
OBOPRI	Operator determined barring of outgoing premium rate calls (information)	0 = Not active 1 = Active	-	L/P/S/D/R



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
OBP	Operator determined barring of packet-oriented services	0 = Not active 1 = Operator determined barring of all packet-oriented services, active 2 = Operator determined barring of packet-oriented services from access points that are within the home PLMN while the subscriber is roaming in a visited PLMN, active 3 = Operator determined barring of packet-oriented services from access points that are within the roamed visited PLMN, active	-	L/P/S/D/R
OBR	Operator determined barring of roaming	0 = Not active 1 = Operator determined barring when roaming outside home PLMN, active 2 = Operator determined barring when roaming outside home PLMN country active	-	L/P/S/D
OBRF	Operator determined barring of registration of forwarded-to number	0 = Not active 1 = Operator determined barring of registration of any call forwarded-to number, active 2 = Operator determined barring of registration of any international call forwarded-to number, active 3 = Operator determined barring of registration of any international call forwarded-to number except to a number within the HPLMN country, active 4 = Operator determined barring of registration of interzonal forwarded-to number, active 5 = Operator determined barring of registration of any interzonal forwarded-to number except to a number within the HPLMN country, active	-	L/P/S/D

(1) Actions are explained in Table 27.

(2) Incompatible with OBA when both SUDs are entered in the CLI command `HEMSMCI (newsud)` and their values are different.



Table 20 SUD Codes OBSSM-ORA

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
OBSSM	Operator determined barring of SSs management	0 = Not active 1 = Active	-	L/P/S/D
OBZI	Operator determined barring of incoming interzonal calls	0 = Not active 1 = Operator Determined Barring of incoming calls when roaming outside the zone of the HPLMN country, active	-	L/P/S/D
OBZO	Operator determined barring of outgoing interzonal calls	0 = Not active 1 = Operator Determined Barring of outgoing interzonal calls, active 2 = Operator Determined Barring of outgoing interzonal calls except those directed to the home PLMN country, active 3 = Operator Determined Barring of outgoing international calls except those directed to the home PLMN country AND barring of outgoing interzonal calls, active	-	L/P/S/D/R
OCSI	Originating CAMEL subscription information	0 = Not provided 1 = Provided	-	L/D
OCSINF	Originating CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
OCSIST	Originating CAMEL subscription information activation state	0 = Not active 1 = Active		L/P/S/D
ODBNF	Operator determined barring notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
OFA	Origin for forwarded-to number analysis	0-511	-	L/P/S/D
OICK	Originating intelligent network category key	0 = Not provided 1-999 = Provided	-	L/P/S/D/R
OIN	Originating intelligent network	0 = Not provided 1 = Provided	-	L/P/S/D
ORA	Origin for Restriction in number series Analysis	0 = Not provided 1- 255 = Provided	-	L/P/S/D

(1) Actions are explained in Table 27.



Table 21 SUD Codes OSB1-PICI3

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
OSB1	When registered in the hplmn, operator-specific barring (type 1)	0 = Not active 1 = Active	-	L/P/S/D
OSB2	When registered in the hplmn, operator-specific barring (type 2)	0 = Not active 1 = Active	-	L/P/S/D
OSB3	When registered in the hplmn, operator-specific barring (type 3)	0 = Not active 1 = Active	-	L/P/S/D
OSB4	When registered in the hplmn, operator-specific barring (type 4)	0 = Not active 1 = Active	-	L/P/S/D
OSMCSI	Originating SMS CAMEL subscription information	0 = Not provided 1 = Provided	-	L/D
OSMCSINF	Originating Short Message Service (SMS) CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
OSMCSIST	Originating Short Message Service (SMS) CAMEL subscription information activation state	0 = Not active 1 = Active		L/P/S/D
PDPCP	PDP context profile ⁽²⁾	0 = No PDP context profile assigned 1-8160 = PDP context profile	-	L/P/S/D
PICI	Preferred Interexchange Carrier identifier ⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾	0 = No preferred Interexchange Carrier assigned 1-255 = preferred Interexchange Carrier identifier	0-2 Desired use 0 = Both national and international calls 1 = National long-distance calls only (default) 2 = International calls only	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
PIC12	Preferred Interexchange Carrier identifier 2 ⁽⁷⁾⁽⁴⁾⁽⁸⁾⁽⁶⁾	0 = No preferred Interexchange Carrier assigned 1-255 = preferred Interexchange Carrier identifier	0-2 Desired use 0 = Both national and international calls 1 = National long-distance calls only (default) 2 = International al calls only	L/P/S/D
PIC13	Preferred Interexchange Carrier identifier 3 ⁽⁷⁾⁽⁵⁾⁽⁸⁾⁽⁶⁾	0 = No preferred Interexchange Carrier assigned 1-255 = preferred Interexchange Carrier identifier	0-2 Desired use 0 = Both national and international calls 1 = National long-distance calls only (default) 2 = International al calls only	L/P/S/D

(1) Actions are explained in Table 27.

(2) Only one PDPCP is allowed as NEWSUD in the CLI command HEMSMCI

(3) Incompatible with PIC12 when entered in the CLI command HEMSMCI (parameter newsud), the MML commands HGSDC (parameter SUD) or HGSPC (parameter SUD) and their values are equal to PIC12 or PIC13 value already stored in the database.

(4) Incompatible with PIC13 when entered in the CLI command HEMSMCI (parameter newsud), the MML commands HGSDC (parameter SUD) or HGSPC (parameter SUD) and their values are equal to PIC12 or PIC13 value already stored in the database.

(5) Incompatible with PIC12 when both SUDs are entered in the CLI command HEMSMCI (parameter newsud) or the MML command HGSPC (parameter SUD) and its value is equal.

(6) Incompatible with PIC13 when both SUDs are entered in the CLI command HEMSMCI (parameter newsud) or the MML command HGSPC (parameter SUD) and its value is equal.

(7) Incompatible with PIC1 when entered in the CLI command HEMSMCI (parameter newsud), the MML commands HGSDC (parameter SUD) or HGSPC (parameter SUD) and their values are equal to PIC12 or PIC13 value already stored in the database.

(8) Incompatible with PIC1 when both SUDs are entered in the CLI command HEMSMCI (parameter newsud) or the MML command HGSDC (parameter SUD) and its value is equal.

Table 22 SUD Codes PLMNO-SCHAR

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
PLMNO	PLMN operator LCS privacy class	0 = Not provided 1 = Provided	-	L/D
PRBT	Personalized ring back tone	0 = Not provided 1 = Provided	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
PWD	Subscriber password	0-9999 = Password	-	L/S/D
RDP	Roaming distribution profile	0 = No profile assigned 1-32 = Roaming distribution profile	-	L/P/S/D
REGSER	Regional services	0 = Not provided 1-65534 = Zone code set number	-	L/S/D
RSA	Roaming service area identifier	0 = No roaming service area assigned 1-4096 = Roaming service area	-	L/P/S/D
RTCA	Real-time charging for all	0 = Not provided 1 = Provided	-	L/P/S/D
SCHAR	Subscriber charging characteristics	0-15 = Profile Index	0-4095 GPRS support node behavior	L/P/S/D

(1) Actions are explained in Table 27.

Table 23 SUD Codes SERVTL-SOCFU

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
SERVTL	Service type LCS list	0 = Not provided 1 = Provided	-	L/D
SMSHR1	SMS Home Routing Data SMS Router ID and MT-SMS Screening profile 1	0-128 MT-SMS screening activation status 0 = Not active 1 - 128 = Active	0 - 63 MT-SMS screening profile identifier 0 = Default	L/P/S/D
SMSHR2	SMS Home Routing Data SMS Router ID and MT-SMS Screening profile 2	0-128 MT-SMS screening activation status 0 = Not active 1 - 128 = Active	0 - 63 MT-SMS screening profile identifier 1 = Default	L/P/S/D
SMSPAM	Spam control for MT-SMS activation status	0 = Not active 1 = Active	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
SOCB	Subscription option control of barring services	<p>0 = By the operator</p> <p>1 = By the operator and the mobile subscriber (using password)</p> <p>2 = Only operator because of unsupported services. This value can be set automatically when the subscriber is located in a MSC/VLR which does not support a service. The previous value is recovered when the cause which provokes it is ended.</p> <p>3 = Only operator because of password blocked. This value can be set automatically when the password is blocked by the subscriber. The previous value is recovered when the password is unblocked by the operator.</p>	-	<p>L/P/S for values 0-1</p> <p>D for values 0-3</p>
SOCFB	Subscription option call forwarding on mobile subscriber busy	<p>0 = No notification to calling nor to served subscribers when the call is forwarded</p> <p>1 = Only calling subscriber is notified when the call is forwarded</p> <p>2 = Only served subscriber is notified when the call is forwarded</p> <p>3 = Both calling and served subscribers are notified when the call is forwarded</p>	-	L/P/S/D
SOCFRC	Subscription option call forwarding on mobile subscriber not reachable	<p>0 = No notification to calling subscriber when the call is forwarded</p> <p>1 = Notification to calling subscriber when the call is forwarded</p>	-	L/P/S/D
SOCFRY	Subscription option call forwarding on no reply	<p>0 = No notification to calling nor to served subscribers when the call is forwarded</p> <p>1 = Only calling subscriber is notified when the call is forwarded</p> <p>2 = Only served subscriber is notified when the call is forwarded</p> <p>3 = Both calling and served subscribers are notified when the call is forwarded</p>	-	L/P/S/D
SOCFU	Subscription option call forwarding unconditional	<p>0 = No notification to calling subscriber when the call is forwarded</p> <p>1 = Notification to calling subscriber when the call is forwarded</p>	-	L/P/S/D

(1) Actions are explained in Table 27.

**Table 24** *SUD Codes SOCLIP-SOSDCF*

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action⁽¹⁾
SOCLIP	Subscription option calling line identification presentation	0 = Without override category 1 = With override category	-	L/P/S/D
SOCLIR	Subscription option calling line identification restriction	0 = Permanent mode 1 = Temporary mode, presentation restricted 2 = Temporary mode, presentation allowed	-	L/P/S/D
SOCOLP	Subscription option connected line identification presentation	0 = Without override category 1 = With override category	-	L/P/S/D
SOSDCF	Subscription option for notification of default call forwarding	0 = No notification to calling nor to served subscribers when the call is forwarded 1 = Notification to calling subscriber when the call is forwarded 2 = Notification to served subscriber when the call is forwarded 3 = Notification to both, calling and served subscribers when the call is forwarded	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
SOPLCS	Subscription option for LCS	0 = Allow mobile subscriber registration in serving node without sending LCS data when LCS capability set 3 is not supported by the VLR/SGSN 1 = Allow mobile subscriber registration in serving node sending LCS data without the service type list when LCS capability set 3 is not supported by the VLR/SGSN	-	L/P/S/D
SOSDCF	Subscription option for specification of forwarding conditions for DCF SS	1 = When the called mobile subscriber is busy 2 = When the called mobile subscriber does not reply 3 = When the called mobile subscriber is busy and does not reply 4 = When the called mobile subscriber is not reachable 5 = When the called mobile subscriber is busy and not reachable 6 = When the called mobile subscriber is not reachable and does not reply 7 = When the called mobile subscriber is busy, not reachable and does not reply	-	L/P/S/D

(1) Actions are explained in Table 27.

Table 25 SUD Codes SPN-TRC

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
SPN	Single personal number	0 = Not registered 1 = Registered	-	L
STE	Spatial triggers	0 = Not provided 1 = Provided	-	L/D
STYPE	Subscription type	0 = Not provided 1-127 = Provided	-	L/P/S/D/I
TCSI	Terminating CAMEL subscription information	0 = Not provided 1 = Provided	-	L/D
TCSINF	Terminating CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
TCSIST	Terminating CAMEL subscription information activation state	0 = Not active 1 = Active		L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
TICK	Terminating intelligent network category key	0 = Not provided 1-999 = Provided	-	L/P/S/D/R/I
TIN	Terminating intelligent network	0 = Not provided 1 = Provided	-	L/P/S/D
TIFCSINF	Translation information flag to CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
TRC	Subscriber tracing	0 = Not active 1 = Active	-	L/D

(1) Actions are explained in Table 27.

Table 26 SUD Codes TS11-VTCSIST

SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
TS11	Teleservice "Telephony"	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
TS21	Teleservice "Short message MT/PP"	0 = Not subscribed 1 = Subscribed	-	L/P/S/D/R
TS22	Teleservice "Short message MO/PP"	0 = Not subscribed 1 = Subscribed	-	L/P/S/D/R
TS61	Teleservice "Automatic facsimile group 3"	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
TS62	Teleservice "Automatic facsimile group 3"	0 = Not subscribed 1 = Subscribed	-	L/P/S/D
TSD1	Teleservice "Auxiliary telephony"	0 = Not subscribed 1 = Subscribed	-	L/D
TSMCSI	Terminating SMS CAMEL subscription information	0 = Not provided 1 = Provided	-	L/D
TSMCSINF	Terminating SMS CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
TSMCSIST	Terminating SMS CAMEL subscription information activation state	0 = Not active 1 = Active	-	L/P/S/D



SUD Code	Description	SUD Value Part 1	SUD Value Part 2	Action ⁽¹⁾
TSMO	Transfer of Short Message option	0 = Transfer of Short Message through the MSC 1 = Transfer of Short Message through the Serving GPRS Support Node (SGSN)	-	L/S/D
TTP	Transfer to third-party mobile originating LCS class	0 = Not provided 1 = Provided	-	L/D
UNIV	Universal LCS privacy class	0 = Not provided 1 = Provided	-	L/D
VTCSI	Visited MSC terminating CAMEL subscription information	0 = Not provided 1 = Provided	-	L/D
VTCSINF	Visited MSC terminating CAMEL subscription information notification flag	0 = Notification not required 1 = Notification required	-	L/P/S/D
VTCSIST	Visited MSC terminating CAMEL subscription information activation state	0 = Not active 1 = Active		L/P/S/D

(1) Actions are explained in Table 27.

The following table contains explanations for the **Action** column in the tables above.

Table 27 SUD Actions

Action Identifier	Description
L	This string can be used in the CLI commands <code>HEMSLIP</code> and can appear in its printout (HLR CONDITIONAL SUBSCRIBER LIST). This string can also be used as parameter SUD in the CLI command <code>HEMSMCI</code> .
P	This string can be used in the MML command <code>HGSPC</code> to change profile data, and can also appear in the printout initiated by MML command <code>HGSP</code> (HLR SUBSCRIBER PROFILE DATA).
S	This string can be used in the MML command <code>HGSDC</code> to change Subscriber Data. This string can also be used as parameter NEWSUD in the CLI command <code>HEMSMCI</code> .
D	This string can appear in the printout initiated by MML command <code>HGSDP</code> (PERMANENT SUBSCRIBER DATA) and in the CLI command <code>HEMSSDP</code> .
R	This string can be used in the command <code>HECDRPC</code> to change roaming service restriction profile data, and can also appear in the printout initiated by command <code>HECDRPP</code> (HLR ROAMING SERVICE PROFILE DATA)
I	This string can be used in the command <code>HECDRPC</code> to change roaming service induction profile data, and can also appear in the printout initiated by command <code>HECDRPP</code> (HLR ROAMING SERVICE PROFILE DATA)



2.5.2.2 Supplementary Information for SUD

When a certain SUD is not supported by the system, the corresponding string cannot be recognized by it.

Some SUDs are only returned (printouts HLR SUBSCRIBER PROFILE DATA and PERMANENT SUBSCRIBER DATA) if the SUD value part 1 for these SUD codes is different from 0. Effected SUDs are the following:

Account Codes	Location Measurement Unit	Regional Services
Basic Services	Mobility Management IN Triggering	Roaming Service Area
CAMEL Subscription Information	Multiple subscription data provision status	Service Type LCS List
CAMEL Subscription Profile	Operator Determined Barring	Spam Control for MT-SMS activation status
Channel Allocation Priority Level	PDP Context Profile	SSs
Immediate Call Itemization	Personalized Ring Back Tone	Subscriber Tracing
IST, Spatial Triggers	Positioning Allowed Indicator	Subscription Type
LCS-Classes	Preferred Interexchange Carrier Identifiers	

Subscription options for SUD are only printed if the SUD has been provided.

Subscription options for SSs and SS-related data are only fetched if the SS has been provided, except for the subscription options related to the Default Call Forwarding SS. They are always fetched.

When the SS is not provided, although the change of the related data and subscription option is accepted by the MML commands HGSDC and HGSPC. The new value is not relevant until the service is provided.

2.6 TDP Types and Values

`tdp` and `tdptype` are closely related. A certain Trigger Detection Point (TDP) type implies a certain value range on `tdp`. The implication is shown in the following table.

Table 28 TDP Type Implications

TDP Type	<code>tdp</code> Possible Values
DSTDTP	1-10
GPRSTDP	1 = Attach 2 = Change of position GPRS session 11 = PDP context establishment 12 = PDP context establishment acknowledgment 14 = Change of position context



TDP Type	Possible Values
MMTDP	0 = Location update in the same VLR service area 1 = Location update to another VLR service area 2 = International Mobile Subscriber Identity (IMSI) attach 3 = Mobile Station (MS) initiated IMSI detach (explicit detach) 4 = Network initiated IMSI detach (implicit detach)
OCTDP	2 = Collected info 4 = Route select failure
OSMSTDP	1 = SMS collected info
TCTDP	12 = Terminating attempt authorized 13 = Terminator busy 14 = Terminator no answer
TSMSTDP	2 = SMS Delivery Request
VTTDP	12 = Terminating attempt authorized 13 = Terminator busy 14 = Terminator no answer





Reference List

Ericsson Documents

- [1] *Glossary of Terms and Acronyms*, 0033-CSH 109 628 Uen
- [2] *Library Overview*, 18/1553-CSH 109 628 Uen