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Part 2: Test Suite Structure (TSS) and Test Purposes (TP)

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Contents

Intelle	ectual Property Rights	4
Forew	vord	4
Moda	ıl verbs terminology	4
1	Scope	5
2	References	5
2.1	Normative references	5
2.2	Informative references	5
3	Definitions and abbreviations	6
3.1	Definitions	
3.2	Abbreviations	6
4	Test Suite Structure (TSS) and Test Purposes (TP)	6
т 4.1	Test Suite Structure (193) and Test 1 diposes (11)	
4.1.1	TP naming convention	
4.1.2	Test strategy	
4.1.3	TP structure	
4.2	Test Purposes.	
4.2.1	MME Role	
4.2.1.1	1 Update Location	8
4.2.1.2	2 Cancel Location	10
4.2.1.3	Purge UE	11
4.2.1.4		
4.2.1.5		
4.2.1.6		
4.2.1.7	=	
4.2.1.8		
4.2.2	HSS Role	
4.2.2.1	- r	
4.2.2.2		
4.2.2.3		
4.2.2.4 4.2.2.5		
4.2.2.3 4.2.2.6		
4.2.2.0 4.2.2.7		
4.2.2. <i>1</i> 4.2.2.8		
Histor		44

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Core Network and Interoperability Testing (INT).

The present document is part 2 of a multi-part deliverable covering the test specifications for the Diameter protocol on the S6a interface, as identified below:

Part 1: "Protocol Implementation Conformance Statement (PICS)";

Part 2: "Test Suite Structure (TSS) and Test Purposes (TP)";

Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "may not", "need", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

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1 Scope

The present document provides the Test Suite Structure (TSS) and Test Purposes (TP) for the test specifications for the Diameter protocol on the S6a interface as specified in TS 129 272 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4] and ETS 300 406 [5].

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are necessary for the application of the present document.

IETF RFC 3588: "Diameter Base Protocol".

[1]	ETSI TS 129 272 (V10.8.0): "Universal Mobile Telecommunications System (UMTS); LTE; Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 10.8.0 Release 10)".
[2]	ETSI TS 103 261-1: "Core Network and Interoperability Testing (INT); Diameter Conformance testing for S6a interface; (3GPP Release 10); Part 1: Protocol Implementation Conformance Statement (PICS)".
[3]	ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
[4]	ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
[5]	ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

[6]

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 129 272 [1] and the following apply:

Abstract Test Method (ATM): Refer to ISO/IEC 9646-1 [3].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [3].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [3].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [3].

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TS 129 272 [1] and the following apply:

TP Test Purpose
TSS Test Suite Structure

4 Test Suite Structure (TSS) and Test Purposes (TP)

4.1 Test Suite Structure

4.1.1 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS.

Table 1: TP identifier naming convention scheme

```
Identifier: <TP>_<iut>_<scope>_<nn>
                  Test Purpose:
                                           fixed to "TP"
   <tp>
   <iut>
                  type of IUT:
                                           MME or HSS
   <scope>
                  group
                                           UL
                                                   Update Location
                                           CL
                                                   Cancel Location
                                           PUE
                                                   Purge UE
                                           ISD
                                                   Insert Subscriber Data
                                           DSD
                                                   Delete Subscriber Data
                                                   Authentication Information Retrieval
                                           AIR
                                           RES
                                                   Reset
                                           NOT
                                                   Notification
                  sequential number
                                           (01 to 99)
   <nn>
```

4.1.2 Test strategy

As the base standard TS 129 272 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification TS 103 261-1 [2].

4.1.3 TP structure

Each TP has been written in a manner which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used which is illustrated in table 2. This table should be read in conjunction with any TP, i.e. please use a TP as an example to facilitate the full comprehension of table 2.

Table 2: Structure of a single TP

TP part	Text	Example	
Header	<ld><ldentifier></ldentifier></ld>	see table 1	
	<clause 129="" 272="" [1]="" base="" in="" number="" ts=""></clause>	clause 5.2.1.1.2	
	<pics reference=""></pics>	A.2/3	
Summary	Short free text description of the test objective	Verify that the IUT can successfully	
		process all mandatory AVPs in a	
		UL-Request received due to IP-CAN	
		session establishment.	
Initial	Free text description of the condition that the IUT has reached	The IUT has received AF provisions	
condition	before the test purpose applies.	information about the AF signalling	
(optional)		flows between UE and AF.	
Start poin			
	<state> see RFC 3588 [6] clause 5.6</state>	Open state	
	and/or further actions before stimulus	having sent an AA-Request	
	if the action is sending/receiving		
	see below for message structure		
Stimulus	<trigger>, see below for message structure</trigger>	on receipt of a Capabilities-Exchange-	
		Request (see note 2)	
	or <goal></goal>	to require PCC supervision	
Reaction	<action>.</action>	sends, saves, does, etc.	
	if the action is sending		
	see below for message structure		
	<next action="">, etc.</next>		
Message	<message type=""></message>	Capabilities-Exchange-Answer, etc.	
structure	A)/D	(see note 2)	
	a) containing a(n) <avp name=""> AVP</avp>	Vendor-Id, etc.	
	b) indicating <coding field="" of="" the=""></coding>		
NOTE 4	and back to a) or b) (see note 3)	for a selection and association for	
	Text in italics will not appear in TPs and text between <> is filled in	for each TP and may differ from one	
	TP to the next.		
	All messages shall be considered as "valid and compatible" unless		
	purpose. This includes the presence of all mandatory AVPs as spe	cilied in AFC 3588 [6] and in	
	S 129 272 [1], clause 7.		
	AVP can be embedded into another AVP. This is expressed by indentations, e.g. if Message1 contains /P1 and AVP2 where AVP1 has AVP3 embedded this will be expressed like this:		
	sends/receives Message 1	DIESSEU IINE [IIIS.	
	containing AVP1		
	containing AVP1 containing AVP3		
	indicating		
	containing AVP2		
	indicating		
	mulcaling		

4.2 Test Purposes

All PICS items referred to in this clause are as specified in TS 103 261-1 [2] unless indicated otherwise by another numbered reference. PICS items are only meant for test selection, therefore only PICS items with status optional or conditional are explicitly mentioned.

4.2.1 MME Role

Test Selection: IUT takes the role of the MME; PICS A.2/1

4.2.1.1 Update Location

Test Selection: IUT supports location management procedures; PICS A.3/1.

TP_MME_UL_01	Standards Reference: 5.2.1.1.1 and 7.2.3	PICS item:
Summary:	Verify that the IUT can indicate request for u	pdate location information to inform HSS
-	about the identity of the currently serving us	er.
Test purpose:	Ensure that the IUT	
	to indicate a request for update location information,	
	sends a UL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a RAT-Type AVP	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	containing a Visited-PLMN-ID AVP	
Comments:		

TP_MME_UL_02	Standards Reference:	PICS item:
	5.2.1.1.2¶4	A.2/1.2
Summary:	Verify that the IUT due to an inter node (SGSN to MME) update sends UL-Request	
	where "Single-Registration-Indication" shall	be set.
Test purpose:	Ensure that the IUT	
	to indicate an inter node update,	
	sends a UL-Request	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	with Single-Registration-Indication bit set	
Comments:		

TP MME UL 03	Standards Reference:	PICS item:
	5.2.1.1.2¶5	
Summary:	Verify that the IUT can indicate request for u	pdate location information which is sent due
	to an initial attach.	
Test purpose:	Ensure that the IUT	
	to indicate a request for update location	information due to an initial attach,
	sends a UL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a RAT-Type AVP	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	with Initial-Attach-Indicator bit set	
	containing a Visited-PLMN-ID AVP	
Comments:		

TP_MME_UL_04	Standards Reference:	PICS item:
	5.2.1.1.2¶6	A.2/1.1
Summary:	Verify that the IUT, when subscriber data are	e already available due to previous location
	update, shall successfully process additiona	I request for update location information.
Test purpose:	Ensure that the IUT	
	sends a UL-Request and	
	on receipt of a UL-Answer	
	to indicate additional request for update	location information,
	sends a UL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a RAT-Type AVP	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	with Skip-Subscriber-Data bit set	
	containing a Visited-PLMN-ID AVP	
Comments:		

TP_MME_UL_05	Standards Reference:	PICS item:
	5.2.1.1.2¶7	A.2/1.1 and A.3/1.1
Summary:	Verify that the IUT, that has chosen the option to include the SSGN number within ULR request shall be prepared to receive a single subscription data update message IDR from HSS when the subscription data is modified.	
Test purpose:	Ensure that the IUT sends a UL-Request containing a SGSN-Number AVP on receipt of a UL-Answer and on receipt of an ID-Request sends an ID-Answer	
Comments:		

TP_MME_UL_06	Standards Reference:	PICS item:
	5.2.1.1.2¶7	A.2/1.1 and A.3/1.1
Summary:	Verify that the IUT, that has chosen the option to include the SSGN number within ULR request shall be prepared to receive a single subscription data update message DSR from HSS when the subscription data is modified	
Test purpose:	Ensure that the IUT sends a UL-Request containing a SGSN-Number AVP on receipt of a UL-Answer and on receipt of an DS-Request sends an DS-Answer	
Comments:		

TP_MME_UL_07	Standards Reference:	PICS item:
	5.2.1.1.2¶10	NOT A.2/1.1
Summary:	Verify that the standalone IUT, shall not indicate its support for any SGSN specific	
	features and shall not request explicitly the download of GPRS data	
Test purpose:	Ensure that the IUT	
	sends a UL-Request	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	with GPRS-Subscription-Data-Indicator bit not set	
	with Node-Type-Indicator bit not set	
	containing a Supported-Features AVP	
	not containing any SGSN specific features	
Comments:		

4.2.1.2 Cancel Location

Test Selection: IUT supports cancel location procedures; PICS A.3/2.

TP_MME_CL_01	Standards Reference: Table 5.2.1.2.1/2 and 5.2.1.2.2¶2 and	PICS item:
	7.2.8	
Summary:	Verify that the IUT when receiving Cancel lo	
	is known and if not the IUT shall return Cand	cel location response with all mandatory
	AVP's and with appropriate result code.	
Test purpose:	Ensure that the IUT	
	on receipt of a CL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Host AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	indicating not known IMSI	
	containing a Cancelation-Type AVP,	
	sends a CL-Answer	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
Comments:	NOTE: In case if new and old MMEs are present also ULR and ULA shall be handled	
	on HSS as a TS component.	

TP_MME_CL_02	Standards Reference: Table 5.2.1.2.1/2 and 5.2.1.2.2¶3 and	PICS item:
	7.2.8	
Summary:		cation request shall check whether the IMSI
	is known and if cancelation type of "Initial att	
	shall return Cancel location response with a	ppropriate result code.
Test purpose:	Ensure that the IUT	
	on receipt of a CL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Host AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Cancelation-Type AVP	
	indicating INITIAL_ATTACH_PROCEDURE,	
	sends a CL-Answer	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Result-Code AVP	
0	indicating DIAMETER_SUCCESS	
Comments:		present also ULR and ULA shall be handled
	on HSS as a TS component.	

4.2.1.3 Purge UE

Test Selection: IUT supports Purge UE procedures; PICS A.3/3.

TP_MME_PUE_01	Standards Reference:	PICS item:
	Table 5.2.1.3.1/1 and 7.2.13	
Summary:	Verify that the IUT can indicate request for p	urge UE procedure
Test purpose:	Ensure that the IUT	
	to indicate a request for purge UE procedure,	
	sends a PU-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
Comments:		

TP_MME_PUE_02	Standards Reference:	PICS item:
	5.2.1.3.2¶1	
Summary:	Verify that the IUT shall make use of UE Pu	rge procedure and set appropriate flag when
	the subscription profile is deleted from database or after long UE inactivity.	
Test purpose:	Ensure that the IUT	
	to indicate a request for purge UE procedure,	
	sends a PU-Request	
	containing a PUR-Flags AVP	
	with "UE Purged in MME" bit set	
Comments:		

TP_MME_PUE_03	Standards Reference:	PICS item:
	5.2.1.3.2¶3	A.2 /1.1
Summary:	Verify that the IUT shall make use of UE Pur when the subscription profile is deleted from registered accesses.	
Test purpose:	Ensure that the IUT to indicate a request for purge UE processends a PU-Request containing a PUR-Flags AVP with "UE Purged in MME" bit set with "UE Purged in SGSN" bit set	
Comments:		

TP_MME_PUE_04	Standards Reference:	PICS item:
	5.2.1.3.2¶3	A.2/1.1 and A.4/13
Summary:	Verify that in case when HSS indicates supp	
	indicate a Purge of the UE in only one of the	serving nodes in the combined node (either
	in the MME or in the SGSN)	
Test purpose:	Ensure that the IUT	
	to indicate a request for update location	information,
	sends a UL-Request	
	on receipt of a UL-Answer	
	containing a Supported-Features AVP	
	containing a Vendor-Id AVP	
	containing a Feature-List-ID AVP	
	containing a Feature-List AVP	
	indicating Partial Purge	
	sends a PU-Request	
	containing a PUR-Flags AVP	
	either	
	with "UE Purged in MME" bit set or	
	with "UE Purged in SGSN" bit set	
Comments:		

4.2.1.4 Insert Subscriber Data

Test Selection: IUT supports subscriber data handling procedures; PICS A.3/4.

Table 5.2.2.1.1/2 and 5.2.2.1.2¶4 and 7.2.10 Summary: Verify that the IUT when receiving an ID-Request shall check whether the IMSI is known and it shall return Insert Subscriber Data response with all mandatory AVP's and with appropriate result code Test purpose: Ensure that the IUT on receipt of an ID-Request containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing a Destination-Host AVP containing a Destination-Host AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Host AVP containing an Origin-Host AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS	TP_MME_ISD_01	Standards Reference:	PICS item:	
Summary: Verify that the IUT when receiving an ID-Request shall check whether the IMSI is known and it shall return Insert Subscriber Data response with all mandatory AVP's and with appropriate result code Test purpose: Ensure that the IUT on receipt of an ID-Request		Table 5.2.2.1.1/2 and 5.2.2.1.2¶4 and		
and it shall return Insert Subscriber Data response with all mandatory AVP's and with appropriate result code Test purpose: Ensure that the IUT on receipt of an ID-Request		7.2.10		
appropriate result code Test purpose: Ensure that the IUT on receipt of an ID-Request	Summary:			
Test purpose: Ensure that the IUT on receipt of an ID-Request containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Destination-Host AVP containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS		and it shall return Insert Subscriber Data res	sponse with all mandatory AVP's and with	
on receipt of an ID-Request containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Destination-Host AVP containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS		appropriate result code		
containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Destination-Host AVP containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS	Test purpose:			
containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Destination-Host AVP containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Destination-Host AVP containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
containing an Origin-Host AVP containing an Origin-Realm AVP containing a Destination-Host AVP containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
containing an Origin-Realm AVP containing a Destination-Host AVP containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS			NED	
containing a Destination-Host AVP containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
containing a Destination-Realm AVP containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
containing a User-Name AVP indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
indicating known IMSI containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
containing a Subscription-Data AVP, sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
sends an ID-Answer containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
containing a Session-ID AVP containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
containing an Auth-Session-State AVP indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
indicating NO_STATE_MAINTAINED containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS		· ·	/D	
containing an Origin-Host AVP containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS				
containing an Origin-Realm AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS			NED	
containing a Result-Code AVP indicating DIAMETER_SUCCESS				
indicating DIAMETER_SUCCESS				
			3	
	Comments:	IIIdicaling Dirivic Lett_0000000		

TP_MME_ISD_02	Standards Reference:	PICS item:
	5.2.2.1.2¶1,2 and 7.4.3	
Summary:	Verify that the IUT when receiving an ID-Red	quest shall check whether the IMSI is known
	and if not the IUT shall return Insert Subscril	per Data response with appropriate result
	code.	
Test purpose:	Ensure that the IUT	
	on receipt of an ID-Request	
	containing a User-Name AVP	
	indicating not known IMSI,	
	sends an ID-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result A	
	containing an Experimental-Resu	lt-Code AVP
	indicating DIAMETER_ERRO	R_USER_UNKNOWN
Comments:		

TP_MME_ISD_03	Standards Reference:	PICS item:
	5.2.2.1.2¶18	
Summary:	Verify that the IUT when receiving an ID-Rec	quest with IDR-Flags with "T-ADS Data
	Request" bit set and when UE is in attached	state the IUT shall return Insert Subscriber
	Data response with time stamp of UE's mos	
	RAT Type, and an indication of whether or n	ot IMS Voice over PS is supported.
Test purpose:	Ensure that the IUT	
	on receipt of an ID-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing an IDR-Flags AVP	
	with T-ADS Data Request bit set,	
	sends an ID-Answer	
	containing an IMS-Voice-Over-PS-Sessions-Supported AVP	
	containing a Last-UE-Activity-Time A	VP
	containing a RAT-Type AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
Comments:		

TP_MME_ISD_04	Standards Reference:	PICS item:
	5.2.2.1.2¶18	
Summary:	Verify that the IUT when receiving an ID-Rec	
	Request" bit set and when UE is in detached	
	Data response not including any of T_ADS I	Es.
Test purpose:	Ensure that the IUT	
	on receipt of an ID-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing an IDR-Flags AVP	
	with T-ADS Data Request bit set,	
	sends an ID-Answer	
	not containing an IMS-Voice-Over-Ps	S-Sessions-Supported AVP
	not containing a Last-UE-Activity-Tim	ne AVP
	not containing a RAT-Type AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
Comments:		

TP_MME_ISD_05	Standards Reference:	PICS item:
	5.2.2.1.2¶19	
Summary:	Verify that the IUT when receiving an ID-Rec	quest with IDR-Flags with "EPS User State
	Request" bit set the IUT shall return Insert S	ubscriber Data response including the
	corresponding user information.	,
Test purpose:	Ensure that the IUT	
	on receipt of an ID-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing an IDR-Flags AVP	
	with EPS User State Request bit	set,
	sends an ID-Answer	
	containing an EPS-User-State AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	8
Comments:		

TP_MME_ISD_06	Standards Reference:	PICS item:
	5.2.2.1.2¶19	
Summary:	Verify that the IUT when receiving an ID-Re-	quest with IDR-Flags with "EPS Location
	Information Request" bit set the IUT shall re	turn Insert Subscriber Data response
	including the corresponding user information	ì.
Test purpose:	Ensure that the IUT	
	on receipt of an ID-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing an IDR-Flags AVP	
	with EPS Location Information Request bit set,	
	sends an ID-Answer	·
	containing an EPS-Location-Informat	ion AVP
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
Comments:		

TP_MME_ISD_07	Standards Reference:	PICS item:
	5.2.2.1.2¶19	
Summary:	Verify that the IUT when receiving an ID-Rec	
	Request" bit set and with "EPS Location Info	ormation Request" bit set the IUT shall return
	Insert Subscriber Data response including the	ne corresponding user informations.
Test purpose:	Ensure that the IUT	
	on receipt of an ID-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing an IDR-Flags AVP	
	with EPS User State Request bit set and	
	with EPS Location Information Request bit set,	
	sends an ID-Answer	
	containing an EPS-User-State AVP	
	containing an EPS-Location-Information AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
Comments:		

TP_MME_ISD_08	Standards Reference: 5.2.2.1.2¶19	PICS item:	
Summary:	Verify that the IUT when receiving an ID-Rec	quest with IDR-Flags with "EPS User State	
_	Request" bit set and with "EPS Location Info		
	Location Request" bit set and UE is in idle m	node the IUT shall return Insert Subscriber	
	Data response including the most up-to-date	corresponding user information.	
Test purpose:	Ensure that the IUT		
	on receipt of an ID-Request		
	containing a User-Name AVP		
	indicating known IMSI		
	containing an IDR-Flags AVP		
	with EPS User State Request bit set and		
	with EPS Location Information Request bit set		
	with Current Location Request bit set,		
	to indicate most corresponding up-to-date user information		
	sends an ID-Answer		
	containing an EPS-User-State AVP		
		containing an EPS-Location-Information AVP	
		containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS		
Comments:			

TP_MME_ISD_09	Standards Reference:	PICS item:	
	5.2.2.1.2¶19 and 7.4.3		
Summary:	Verify that the IUT when receiving an ID-Rec		
	Location Request" bit set the IUT shall return	n Insert Subscriber Data response including	
	corresponding result code.		
Test purpose:	Ensure that the IUT		
	on receipt of an ID-Request	on receipt of an ID-Request	
	containing a User-Name AVP		
	indicating known IMSI		
	containing an IDR-Flags AVP		
	with Current Location Request bit set,		
	sends an ID-Answer		
	containing a Result-Code AVP		
	indicating DIAMETER_UNABLE_	TO_COMPY	
Comments:			

TP_MME_ISD_10	Standards Reference: 5.2.2.1.2¶4,5 and 7.2.9	PICS item:
Summary:	Verify that the IUT can successfully process all mandatory and optional AVPs in an	
- Cummary.	ID-Request.received due to subscriber data	
	related to the user's subscribed APN configurations for EPS.	
Test purpose:	Ensure that the IUT	
	on receipt of an ID-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	/P
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Host AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Subscription-Data AVP	
	containing an APN-Configuration-Profile AVP	
	containing a Context-Identifier AVP	
	containing an APN Configurations-Included-Indicator AVP	
	containing an APN-Configuration AVP containing a Context-Identifier AVP	
	containing a PDN-Type AVP	
	containing an Service-Selection AVP	
	containing an MIP6-Agent-Info AVP, sends an ID-Answer	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	/P
	indicating NO STATE MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
Comments:	NOTE: PDN GW address has been statically allocated and PDN-GW-Allocation-Type	
	AVP is not present within an APN	I-Configuration AVP.

TP_MME_ISD_11	Standards Reference:	PICS item:	
	5.2.2.1.2¶9 and 7.2.9		
Summary:	Verify that the IUT can successfully process all mandatory and optional AVPs in an ID-		
	Request.received due to subscriber data handling procedure where information is related		
	to the user profile relevant for GPRS.		
Test purpose:	Ensure that the IUT		
	on receipt of an ID-Request		
	containing a Session-ID AVP		
	containing an Auth-Session-State AV		
	indicating NO_STATE_MAINTAIN	NED	
	containing an Origin-Host AVP		
	containing an Origin-Realm AVP		
	containing a Destination-Host AVP		
	containing a Destination-Realm AVP		
	containing a User-Name AVP		
	indicating known IMSI		
	containing a Subscription-Data AVP		
	containing a GPRS-Subscription-Data AVP		
	containing a Complete-Data-List-Included-Indicator AVP		
	containing a PDP-Context AVP		
	containing a Context-Identifier AVP		
	containing a PDN-Type AVP		
	containing a QoS-Subscribed AVP		
	containing a Service-Selection AVP,		
	sends an ID-Answer		
	containing a Session-ID AVP	/D	
	indicating NO STATE MAINTAIN	containing an Auth-Session-State AVP	
	containing an Origin-Host AVP	NLD	
	containing an Origin-Realm AVP		
	containing an Origin-Health AVI		
	indicating DIAMETER SUCCESS		
Comments:	<u> </u>		

TP MME ISD 12	Standards Reference:	PICS item:
	5.2.2.1.2¶12-17 and 7.2.9	
Summary:	Verify that the IUT can successfully process all mandatory and optional AVPs in an ID-	
	Request.received due to subscriber data ha	
Test purpose:	Ensure that the IUT	-
	on receipt of an ID-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Host AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Subscription-Data AVP	
	containing a Operator-Determined-Barring AVP	
	containing an Access-Restriction-Data AVP	
	containing an APN-OI-Replacement AVP	
	containing an Regional-Subscription-Zone-Code AVP	
	containing a CSG-Subscription-Data AVP	
	containing a CSG-Id AVP	
	containing a Teleservice-List AVP	
	containing a TS-Code AVP	
	containing a Call-Barring-Info AVP	
	containing an SS-Code AVP	
	containing an SS-Status AVP	
	containing a LCS-Info AVP,	
	sends an ID-Answer	
	containing a Session-ID AVP	/D
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP containing a Result-Code AVP	
	indicating DIAMETER SUCCESS	
Comments:	maicating birtivic ren_0000E00	

4.2.1.5 Delete Subscriber Data

Test Selection: IUT supports delete subscriber data procedures; PICS A.3/5.

TP MME DSD 01	Standards Reference:	PICS item:
	Table 5.2.2.2.1/2 and 5.2.2.2.2¶5 and	
	7.2.12	
Summary:	Verify that the IUT when receiving a DS-Rec	quest shall check whether the IMSI is known
		iber Data response with all mandatory AVP's
	and with appropriate result code.	
Test purpose:	Ensure that the IUT	
	on receipt of a DS-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Host AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a DSR-Flags AVP, sends an DS-Answer	
	containing a Session-ID AVP containing an Auth-Session-State AV	/D
	indicating NO STATE MAINTAIN	
	containing an Origin-Host AVP	VLD
	containing an Origin-Realm AVP	
	containing a Result-Code AVP	
	indicating DIAMETER SUCCESS	3
Comments:		

TP_MME_DSD_02	Standards Reference:	PICS item:
	5.2.2.2.2¶2 and 7.4.3	
Summary:	Verify that the IUT when receiving a DS-Request shall check whether the IMSI is known and if not the IUT shall return Delete Subscriber Data response with appropriate result code.	
Test purpose:	Ensure that the IUT on receipt of a DS-Request containing a User-Name AVP indicating not known IMSI, sends a DS-Answer not containing a Result-Code AVP containing an Experimental-Result A' containing an Experimental-Result Indicating DIAMETER_ERRO	lt-Code AVP
Comments:		

TP_MME_DSD_03	Standards Reference:	PICS item:
	5.2.2.2.2¶3 and 7.4.3	
Summary:	Verify that the IUT when receiving a DS-Rec	quest shall check whether the IMSI is known
	and if it is and Context-Identifier is associate	d with the default APN configuration the IUT
	shall return Delete Subscriber Data respons	e with appropriate result code.
Test purpose:	Ensure that the IUT	
	on receipt of a DS-Request	
	containing a User-Name AVP	
	indicating not known IMSI	
	containing a Context-Identifier AVP	
	indicating default APN configuration	
	containing a DSR-Flags AVP	
	with PDN-subscription-context-Withdrawal bit set,,	
	sends a DS-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_UNABLE_	TO_COMPLY
Comments:		

TP_MME_DSD_04	Standards Reference:	PICS item:
	5.2.2.2.2¶4 and 7.4.3	
Summary:		uest shall check whether the IMSI is known
		Profile-Withdrawal bit is set within DSR-flags
	then the IUT shall return Delete Subscriber I	Data response with appropriate result code.
Test purpose:	Ensure that the IUT	
	on receipt of a DS-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a DSR-Flags AVP	
	with Complete-APN-Configuration-Profile-Withdrawal bit set,	
	sends a DS-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_UNABLE_	TO_COMPLY
Comments:		

4.2.1.6 Authentication Information Retrieval

Test Selection: IUT supports Authentication Information Retrieval procedures; PICS A.3/6.

TP_MME_AIR_01	Standards Reference:	PICS item:	
	5.2.3.1.2¶3,5 and 7.2.5		
Summary:	Verify that the IUT can indicate request for A	Authentication Information Retrieval	
	Procedure triggered by a synchronization fail	ilure during E-UTRAN authentication.	
Test purpose:	Ensure that the IUT		
	to indicate a request for Authentication	Information Retrieval Procedure,	
	sends an Al-Request		
	containing a Session-ID AVP	containing a Session-ID AVP	
	containing an Auth-Session-State AVP		
	indicating NO_STATE_MAINTAINED		
	containing an Origin-Host AVP		
	containing an Origin-Realm AVP		
	containing a Destination-Realm AVP		
	containing a User-Name AVP		
	containing a Visited-PLMN-ID AVP		
	containing a Requested-EUTRAN-Authentication-Info AVP		
	containing a Re-Synchronization-Info AVP		
	ifpresent containing a Requested-UTRAN-GERAN-Authentication-Info AVP		
	not containing a Re-Synchronization-Info AVP.		
Comments:			

TP_MME_AIR_02	Standards Reference:	PICS item:
	5.2.3.1.2¶4,5 and 7.2.5	A.2/1.1
Summary:	Verify that the IUT can indicate request for A	Authentication Information Retrieval
	Procedure triggered by a synchronization fa	ilure during UTRAN or GERAN
	authentication.	_
Test purpose:	Ensure that the IUT	
	to indicate a request for Authentication	Information Retrieval Procedure,
	sends an Al-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a Visited-PLMN-ID AVP	
	containing a Requested-UTRAN-GERAN-Authentication-Info AVP	
	containing a Re-Synchronization-Info AVP	
	ifpresent containing a Requested-EUTRAN-Authentication-Info AVP	
	not containing a Re-Synchroniza	tion-Info AVP.
Comments:		

TP_MME_AIR_03	Standards Reference:	PICS item:
	5.2.3.1.2¶8 and 7.2.5	A.2/1.1 and A.3/6.2
Summary:	Verify that the IUT may indicate request for	Authentication Information Retrieval
	Procedure with the Requested-UTRAN-GEF	
	Requested-EUTRAN-Authentication-Info the	en the Immediate-Response-Preferred AVP
	shall not be present in both.	
Test purpose:	Ensure that the IUT	
	to indicate a request for Authentication	Information Retrieval Procedure,
	sends an Al-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a Visited-PLMN-ID AVP	
	((containing a Requested-UTRAN-GI	ERAN-Authentication-Info AVP and
	containing a Requested-EUTRAN-Au	
	containing an Immediate-Response-Preferred AVP only in one of above AVPs).	
Comments:	,	

4.2.1.7 Reset

Test Selection: IUT supports Reset procedures; PICS A.3/7.

TP_MME_RES_01	Standards Reference:	PICS item:
	Table 5.2.4.1.1/2 and 5.2.4.1.2 and	
	7.2.16	
Summary:	Verify that the IUT when receiving a RS-Rec	quest shall return RS-Answer with all
	mandatory AVP's and with appropriate resul	t code.
Test purpose:	Ensure that the IUT	
	on receipt of an RS-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO STATE MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Host AVP	
	containing a Destination-Realm AVP,	
	sends an RS-Answer	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	P
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	8
Comments:		

4.2.1.8 Notification

Test Selection: IUT supports Notification procedures; PICS A.3/8.

TP_MME_NOT_01	Standards Reference:	PICS item:
	Table 5.2.5.1.1/1 and 5.2.5.1.2 and	
	7.2.17	
Summary:	Verify that the IUT shall not support Emerge	ncy services and therefore can indicate
	request for Notification Procedure.	
Test purpose:	Ensure that the IUT	
	to indicate a request for Notification Procedure,	
	sends an NO-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP.	
Comments:		

4.2.2 HSS Role

Test Selection: IUT takes the role of the HSS; PICS A.2.2.

4.2.2.1 Update Location

Test Selection: IUT supports Management Location procedures; PICS A.5/1.

TP_HSS_UL_01	Standards Reference: Table 5.2.1.1.1/2 and 5.2.1.1.3¶26 and	PICS item:
	7.2.4	
Summary:	Verify that the IUT can successfully process	all mandatory AVPs in a UL-
	Request.received due to Update Location pr	ocedure.
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a Session-ID AVP	_
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a RAT-Type AVP containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	containing a Visited-PLMN-ID AVP,	
	sends a UL-Answer	
	containing a Session-ID AVP	
	containing a Result-Code AVP	
	indicating DIAMETER SUCCESS	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a ULA-Flags AVP	
	with Separation-indicator bit set	
	containing a Subscription-Data AVP.	
Comments:		

TP_HSS_UL_02	Standards Reference:	PICS item:
	Table 5.2.1.1.1/2 and 5.2.1.1.2¶8,9 and	
	5.2.1.1.3¶26 and 7.2.4	
Summary:	Verify that the IUT can successfully process	
	Request.received due to Update Location pr	rocedure.
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a RAT-Type AVP	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set containing a Visited-PLMN-ID AVP	
	containing a Visited-PLIVIN-ID AVP containing a Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions AVP	
	containing an Active-APN AVP	
	containing a Context-Identifier AVP	
	containing Service-Selection AVP	
	containing MIP6-Agent-Info AVP	
	containing Visited-Network-Identifier AVP,	
	sends a UL-Answer	,
	containing a Session-ID AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
	containing an Auth-Session-State AV	P
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a ULA-Flags AVP	
	with Separation-indicator bit set	
	containing a Subscription-Data AVP.	
Comments:		

TP_HSS_UL_03	Standards Reference:	PICS item:
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶1,2 and	
	7.4.3	
Summary:	Verify that the IUT shall check whether subscription data exists for IMSI and if not IUT shall return appropriate Result-Code AVP.	
Toot nurnees	Ensure that the IUT	
Test purpose:		
	on receipt of a UL-Request	
	containing a User-Name AVP	
	indicating not existing IMSI,	
	sends a UL-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result AVP	
	containing an Experimental-Result-Code AVP	
	indicating DIAMETER ERROR USER UNKNOWN	
	not containing a ULA-Flags AVP	
	not containing a Subscription-Data A	VP.
Comments:		

TP_HSS_UL_04	Standards Reference: Table 5.2.1.1.1/2 and 5.2.1.1.3¶3 and 7.4.3	PICS item:
Summary:	Verify that the IUT in case if subscriber has appropriate Result-Code AVP.	not any APN configuration shall return
Test purpose:	Ensure that the IUT on receipt of a UL-Request, sends a UL-Answer not containing a Result-Code AVP containing an Experimental-Result A' containing an Experimental-Resu indicating DIAMETER_ERRO not containing a ULA-Flags AVP not containing a Subscription-Data A	lt-Code AVP R_UNKNOWN_EPS_SUBSCRIPTION
Comments:		

TP_HSS_UL_05	Standards Reference: Table 5.2.1.1.1/2 and 5.2.1.1.3¶5 and 7.4.3	PICS item: A.5/1.1
Summary:	Verify that the IUT in case if subscriber has	not any APN configuration shall return
	appropriate Result-Code AVP.	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request,	
	sends a UL-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result AVP	
	containing an Experimental-Result-Code AVP	
	indicating DIAMETER ERROR UNKNOWN EPS SUBSCRIPTION	
	containing an Error-Diagnostic AVP	
	not containing a ULA-Flags AVP	
	not containing a Subscription-Data A	VP.
Comments:		

TP_HSS_UL_06	Standards Reference:	PICS item:	
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶6 and		
	7.4.3		
Summary:	Verify that the IUT in case if the RAT Type the	ne UE is using is not allowed shall return	
	appropriate Result-Code AVP.		
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request,		
	containing a RAT-Type AVP		
	indicating different value then UE using it		
	sends a UL-Answer		
	not containing a Result-Code AVP		
	containing an Experimental-Result AVP		
	containing an Experimental-Result-Code AVP		
	indicating DIAMETER ERROR RAT NOT ALLOWED		
	not containing a ULA-Flags AVP		
	not containing a Subscription-Data AVP.		
Comments:			

TP_HSS_UL_07	Standards Reference:	PICS item:
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶7 and	A.5/1.2
	7.4.3	
Summary:	Verify that the IUT in case if roaming is not a	allowed in the VPLMN due to ODB shall
	return appropriate Result-Code AVP.	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request,	
	sends a UL-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result AVP	
	containing an Experimental-Result-Code AVP	
	indicating DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
	not containing a ULA-Flags AVP	
	not containing a Subscription-Data A	VP.
Comments:		

TP_HSS_UL_08	Standards Reference: Table 5.2.1.1.1/2 and 5.2.1.1.3¶8	PICS item:
Summary:	Verify that the IUT when UL Request is rece previous old MME.	ived over S6a shall send CL Request to the
Test purpose:	Ensure that the IUT on receipt of a UL-Request from new M sends a CL-Request to previous MME containing a Cancellation-Type AVP indicating MME_UPDATE_PROC on receipt of a CL-Answer from previous sends a UL-Answer to new MME	EDURE
Comments:	NOTE: 2 MME will be involved as test co	mponents.

TP_HSS_UL_09	Standards Reference:	PICS item:
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶8	
Summary:	Verify that the IUT when UL Request is rece	ived over S6a shall send CL Request to the
	previous old SGSN	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request from new N	MME
	containing a ULR-Flags AVP	
	with Single-Registration-Indication bit set,	
	sends a CL-Request to previous SGSN	
	containing a Cancellation-Type AVP	
	indicating SGSN_UPDATE_PROCEDURE	
	on receipt of a CL-Answer from previous SGSN	
	sends a UL-Answer to new MME	
Comments:	NOTE: MME and old SGSN will be involved	ved as test components.

TP_HSS_UL_10	Standards Reference:	PICS item:
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶8	
Summary:	Verify that the IUT when UL Request is rece	ived over S6a shall send CL Request to the
	previous old SGSN.	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request from new N	MME
	containing a ULR-Flags AVP	
	with Initial-Attach-Indicator bit set,	
	sends a CL-Request to previous SGSN	
	containing a Cancellation-Type AVP	
	indicating INITIAL_ATTACH_PROCEDURE	
	on receipt of a CL-Answer from previous SGSN	
	sends a UL-Answer to new MME	
Comments:	NOTE: MME and old SGSN will be involved	ved as test components.

TP_HSS_UL_11	Standards Reference:	PICS item:
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶8	
Summary:	Verify that the IUT when UL Request is rece	ived over S6a shall send CL Request to the
	previous old SGSN.	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request from new N	MME
	containing a ULR-Flags AVP	
	with Single-Registration-Indication bit set	
	with Initial-Attach-Indicator bit set,	
	sends a CL-Request to previous SGSN	
	containing a Cancellation-Type AVP	
	indicating INITIAL_ATTACH_PROCEDURE	
	on receipt of a CL-Answer from previous SGSN	
	sends a UL-Answer to new MME	
Comments:	NOTE: MME and old SGSN will be involved	ved as test components.

TP_HSS_UL_12	Standards Reference:	PICS item:
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶15,23,24	
	and 7.3.34 and 7.3.35	
Summary:	Verify that the IUT can successfully process	all required AVPs in a UL-Answer when the
	APN-Configuration-Profile AVP is present in	the Subscription-Data AVP.
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request,	
	sends a UL-Answer	
	containing a Subscription-Data AVP	
	containing an APN-Configuration-Profile AVP	
	containing a Context-Identifier AVP	
	containing an All-APN-Configurations-Included-Indicator AVP	
	containing an APN-Configuration AVP	
	containing a Context-Identifier AVP	
	containing a PDN-Type AVP	
	containing a Service-Selection AVP	
	containing EPS-Subscribe	d-QoS Profile AVP
	containing an AMBR AVP	
	not containing a Specific-A	APN-Info AVP
	containing an AMBR AVP.	
Comments:		·

TP_HSS_UL_13	Standards Reference: Table 5.2.1.1.1/2 and 5.2.1.1.3¶21	PICS item:
Summary:	Verify that the IUT can successfully process Subscription-Status AVP is present in the St	all required AVPs in a UL-Answer when the ubscription-Data AVP.
Test purpose:	Ensure that the IUT on receipt of a UL-Request, sends a UL-Answer containing a Subscription-Data AVP containing a Subscription-Status, indicating OPERATOR_DETE (containing an Operator-Determine containing an HPLMN-ODB AVP)	RMINED_BARRING ned-Barring AVP or
Comments:		

4.2.2.2 Cancel Location

Test Selection: IUT supports Cancel Location procedures; PICS A.5/2.

NOTE: ULR should be sent from MME before Cancel procedure is required.

TP_HSS_CL_01	Standards Reference:	PICS item:
	5.2.1.2.1¶1(1 st dashed line) and Table	A.5/2
	5.2.1.2.1/1 and 5.2.1.2.3¶2 and 7.2.7	
Summary:	Verify that the IUT can successfully initiate a Cancel Location procedure to inform MME a	
Test purpose:	Ensure that the IUT	
	to indicate a request for cancel location	procedure to inform MME about subscriber's
	subscription withdrawal,	
	sends a CL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a Cancelation-Type AVP	
	indicating SUBSCRIPTION_WITH	IDRAWAL.
Comments:	NOTE: 2 MME could be involved as test	components.

TP_HSS_CL_02	Standards Reference:	PICS item:
	5.2.1.2.1¶1(2 nd dashed line) and Table	A.5/2
	5.2.1.2.1/1 and 5.2.1.2.3¶2 and 7.2.7	
Summary:	Verify that the IUT can successfully initiate a	Il mandatory AVPs in a CL-Request due to
	Cancel Location procedure to inform MME a	bout an ongoing update procedure.
Test purpose:	Ensure that the IUT	
	to indicate a request for cancel location	procedure to inform MME about an ongoing
	update procedure,	
	sends a CL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a Cancelation-Type AVP	
	indicating MME_UPDATE_PROC	EDURE.
Comments:	NOTE: 2 MME could be involved as test	components.

TP_HSS_CL_03	Standards Reference:	PICS item:
	5.2.1.2.1¶1(3 rd dashed line) and Table	A.5/2
	5.2.1.2.1/1 and 5.2.1.2.3¶2 and 7.2.7	
Summary:	Verify that the IUT can successfully initiate a	
	Cancel Location procedure to inform MME a	bout an initial attach procedure.
Test purpose:	Ensure that the IUT	
	to indicate a request for cancel location	procedure to inform MME about an initial
	attach procedure,	
	sends a CL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a Cancelation-Type AVP	
	indicating INITIAL_ATTACH_PRO	OCEDURE.
Comments:	NOTE: 2 MME could be involved as test	components.

TP_HSS_CL_04	Standards Reference:	PICS item:
	5.2.1.2.1¶1 and Table 5.2.1.2.1/1 and	A.5/2
	5.2.1.2.3¶2 and 7.2.7	
Summary:	Verify that the IUT can successfully initiate a	
	Cancel Location procedure and IUT sends C	CLR to combined MME/SGSN during initial
	attach procedure.	
Test purpose:	Ensure that the IUT	
	to indicate a request for cancel location	procedure which has to be sent to combined
	MME/SGSN during initial attach procedure,	
	sends a CL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	containing a Cancelation-Type AVP	
	indicating INITIAL_ATTACH_PRO	OCEDURE
	containing a CLR-Flags AVP	
	with S6a-indicator bit set.	
Comments:	NOTE: One combined MME/SGSN involved	ved as test components.

4.2.2.3 Purge UE

Test Selection: IUT supports Purge UE procedures; PICS A.5/3.

TP_HSS_PUE_01	Standards Reference: Table 5.2.1.3.1/2 and 7.2.14	PICS item:
Summary:	Verify that the IUT can successfully process all mandatory and optional AVPs in a PU-Request.received due to purge UE procedure.	
Test purpose:	Ensure that the IUT on receipt of a PU-Request containing a Session-ID AVP containing an Auth-Session-State AV indicating NO_STATE_MAINTAIN containing an Origin-Host AVP containing an Origin-Realm AVP containing a Destination-Realm AVP containing a User-Name AVP, sends a PU-Answer containing a Session-ID AVP containing a Result-Code AVP indicating DIAMETER_SUCCESS containing an Auth-Session-State AV indicating NO_STATE_MAINTAIN containing an Origin-Host AVP	/P NED
Comments:	containing an Origin-Realm AVP.	

TP_HSS_PUE_02	Standards Reference:	PICS item:
	5.2.1.3.3¶1,2 and 7.4.3	
Summary:	Verify that the IUT when receiving PU-Requ	
	and if not the IUT shall return PU-Answer with appropriate result code.	
Test purpose:	Ensure that the IUT	
	on receipt of a PU-Request	
	containing a User-Name AVP	
	indicating not known IMSI,	
	sends a PU-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result AVP	
	containing an Experimental-Result-Code AVP	
	indicating DIAMETER_ERROR_USER_UNKNOWN.	
Comments:		

TP_HSS_PUE_03	Standards Reference:	PICS item:
	5.2.1.3.3¶1,3 first dash line	A.5/3.1
Summary:	Verify that the IUT when receiving PU-Requ	est shall check if the IMSI is known and
	received identity matches the stored MME-ic	
	the Partial Purge is supported IUT shall set I	PUA flags according to the serving node
	where the purge was done(MME).	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request,	
	sends a UL-Answer	
	containing a Supported-Features AVI	P
	containing a Vendor-Id AVP	
	containing a Feature-List-ID AVP	
	containing a Feature-List AVP	
	indicating Partial Purge	
	on receipt of a PU-Request	
	containing an Origin-Host AVP	
	indicating stored MME identity and	d stored SGSN identity
	containing a User-Name AVP	
	indicating known IMSI	
	containing a PUR-Flags AVP	
	with "UE Purged in MME" bit set	
	sends a PU-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
	containing a PUA-Flags AVP	
	with "freeze M-TMSI" bit set	
Comments:	NOTE: UE Purged in MME.	

TP_HSS_PUE_04	Standards Reference:	PICS item:
	5.2.1.3.3¶1,3 first dash line	A.5/3.1
Summary:	Verify that the IUT when receiving PU-Request shall check if the IMSI is known and	
	received identity matches the stored MME-ic	lentity and stored SGSN-identity and when
	the Partial Purge is supported IUT shall set I	PUA flags according to the serving node
	where the purge was done(SGSN).	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request,	
	sends a UL-Answer	
	containing a Supported-Features AV	P
	containing a Vendor-Id AVP	
	containing a Feature-List-ID AVP	
	containing a Feature-List AVP	
	indicating Partial Purge	
	on receipt of a PU-Request	
	containing an Origin-Host AVP	
	indicating stored MME identity and stored SGSN identity	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a PUR-Flags AVP	
	with "UE Purged in SGSN" bit set,	
	sends a PU-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	5
	containing a PUA-Flags AVP	
	with "freeze P-TMSI" bit set.	
Comments:		

TP_HSS_PUE_05	Standards Reference:	PICS item:
	5.2.1.3.3¶1,3 second dash line	A.5/3.1
Summary:	Verify that the IUT when receiving PU-Requ	
	received identity matches the stored MME-ic	
	the Partial Purge is not supported IUT shall	set PUA flags "freeze M-TMSI" and "freeze
	P-TMSI".	
Test purpose:	Ensure that the IUT	
	on receipt of a PU-Request	
	containing an Origin-Host AVP	
	indicating stored MME identity and stored SGSN identity	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a PUR-Flags AVP	
	with "UE Purged in MME" bit set and	
	with "UE Purged in SGSN" bit set,	
	sends a PU-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	S
	containing a PUA-Flags AVP	
	with "freeze M-TMSI" bit set and	
	with "freeze P-TMSI" bit set.	
Comments:		

TP_HSS_PUE_06	Standards Reference:	PICS item:
	5.2.1.3.3¶4	
Summary:	Verify that the IUT when receiving PU-Requ	est shall check if the IMSI is known and
	received identity matches the stored MME-ic	dentity but not the stored SGSN-identity IUT
	shall set PUA flag "freeze M-TMSI" and clea	r PUA flag "freeze P-TMSI".
Test purpose:	Ensure that the IUT	
	on receipt of a PU-Request	
	containing an Origin-Host AVP	
	indicating stored MME-identity and not stored SGSN-identity	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a PUR-Flags AVP	
	with "UE Purged in MME" bit set	
	sends a PU-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER SUCCESS	
	containing a PUA-Flags AVP	
	with "freeze M-TMSI" bit set and	
	with "freeze P-TMSI" bit not set.	
Comments:		

TP_HSS_PUE_07	Standards Reference:	PICS item:	
	5.2.1.3.3¶5		
Summary:	Verify that the IUT when receiving PU-Requ	est shall check if the IMSI is known and	
	received identity matches the stored SGSN-	identity but not the stored MME-identity IUT	
	shall set PUA flag "freeze P-TMSI" and clear	r PUA flag "freeze M-TMSI".	
Test purpose:	Ensure that the IUT		
	on receipt of a PU-Request		
	containing an Origin-Host AVP		
	indicating stored SGSN-identity and not stored MME-identity		
	containing a User-Name AVP		
	indicating known IMSI		
	containing a PUR-Flags AVP		
	with "UE Purged in SGSN" bit set		
	sends a PU-Answer		
	containing a Result-Code AVP		
	indicating DIAMETER_SUCCESS		
	containing a PUA-Flags AVP		
	with "freeze P-TMSI" bit set and		
	with "freeze M-TMSI" bit not set.		
Comments:			

TP_HSS_PUE_08	Standards Reference:	PICS item:	
	5.2.1.3.3¶5		
Summary:	Verify that the IUT when receiving PU-Requ		
	received identity not matches the stored MM		
	SGSN-identity IUT shall clear PUA flags "fre	eze P-TMSI" and "freeze M-TMSI".	
Test purpose:	Ensure that the IUT		
	on receipt of a PU-Request		
	containing an Origin-Host AVP		
	indicating not stored SGSN-identity and not stored MME-identity		
	containing a User-Name AVP		
	indicating known IMSI		
	sends a PU-Answer		
	containing a Result-Code AVP		
	indicating DIAMETER SUCCESS		
	containing a PUA-Flags AVP		
	with "freeze P-TMSI" bit not set and		
	with "freeze M-TMSI" bit not set.		
Comments:			

4.2.2.4 Insert Subscriber Data

Test Selection: IUT supports subscriber data handling procedures; PICS A.5/4.

TP_HSS_ISD_01	Standards Reference:	PICS item:	
	Table 5.2.2.1.1/1 and 5.2.2.1.3¶2 and		
	7.2.9		
Summary:		an ID-Request including all mandatory AVP's	
	and Subscriber-Status AVP within Subscript	ion-Data AVP to remove all Operator	
	Determined Barring Categories.		
Test purpose:	Ensure that the IUT		
	to indicate a request to remove all Oper	ator Determined Barring Categories	
	sends an ID-Request		
	containing a Session-ID AVP		
	containing an Auth-Session-State AVP		
	indicating NO_STATE_MAINTAINED		
	containing an Origin-Host AVP		
	containing an Origin-Realm AVP		
	containing a Destination-Host AVP		
	containing a Destination-Realm AVP		
	containing a User-Name AVP		
	containing a Subscription-Data AVP		
	containing a Subscriber-Status A'	VP	
	indicating SERVICE_GRANTI	ED	
Comments:		·	

TP_HSS_ISD_02	Standards Reference:	PICS item:	
	Table 5.2.2.1.1/1 and 5.2.2.1.3¶2 and		
	7.2.9		
Summary:	Verify that the IUT can successfully initiate a	an ID-Request including Access-Restriction-	
	Data AVP within Subscription-Data AVP if the	ne current value for Operator Determined	
	Barring in MME needs to be changed.	·	
Test purpose:	Ensure that the IUT		
	to indicate a request to change the current value for Operator Determined Barring		
	sends an ID-Request		
	containing a Subscription-Data AVP		
	containing a Subscriber-Status AVP		
	indicating OPERATOR DETERMINED BARRING		
	(containing an Operator-Determined-Barring AVP or		
	containing an HPLMN-ODB AVP)		
Comments:	,		

TP_HSS_ISD_03	Standards Reference:	PICS item:	
	Table 5.2.2.1.1/1 and 5.2.2.1.3¶3 and		
	7.2.9		
Summary:	Verify that the IUT can successfully initiate a	an ID-Request including Access-Restriction-	
	Data AVP within Subscription-Data AVP to modify stored information in MME.		
Test purpose:	Ensure that the IUT		
	to indicate a request to modify stored information in MME about Access-Restriction-		
	Data		
	sends an ID-Request		
	containing a Subscription-Data AVP		
	containing an Access-Restriction-	-Data AVP	
Comments:			

TP_HSS_ISD_04	Standards Reference: Table 5.2.2.1.1/1 and 5.2.2.1.3¶4 and 7.2.9	PICS item:
Summary:	Verify that the IUT can successfully initiate a Replacement AVP within Subscription-Data has been added or modified.	
Test purpose:	Ensure that the IUT to indicate a request when the UE level modified sends an ID-Request containing a Subscription-Data AVP containing an APN-OI-Replacement	APN-OIReplacement has been added or ent AVP
Comments:		

TP_HSS_ISD_05	Standards Reference:	PICS item:	
	Table 5.2.2.1.1/1 and 5.2.2.1.3¶5,6 and		
	7.2.9 and 7.3.34 and 7.3.35		
Summary:	Verify that the IUT can successfully initiate a	n ID-Request including APN-Configuration-	
	Profile AVP within Subscription-Data AVP if the default APN has changed.		
Test purpose:	Ensure that the IUT		
	to indicate a request when the UE level	APN-OIReplacement has been added or	
	modified		
	sends an ID-Request		
	containing a Subscription-Data AVP		
	containing an APN-Configuration-Profile AVP		
	containing a Context-Identifier		
	containing an All-APN-Configurations-Included-Indicator AVP		
	containing an APN-Configuration AVP		
	containing a Context-Identifier AVP		
	containing a PDN-Type AVP		
	containing a Service-Selection AVP		
	containing an EPS-Subscribed-QoS Profile AVP		
	containing an AMBR AVP		
	not containing a Specific-APN-Info AVP.		
Comments:			

TP_HSS_ISD_06	Standards Reference: Table 5.2.2.1.1/1 and 5.2.2.1.3¶7 and	PICS item:	
	7.2.9	10.0	
Summary:	Verify that the IUT can successfully initiate a		
	Subscription-Data AVP within Subscription-I		
	Indicator information was previously receive location procedure.	d as set in the OLK-Flags during update	
Test purpose:	Ensure that the IUT		
rest purpose.	on receipt of a UL-Request		
	containing a ULR-Flags AVP		
	with S6a-indicator bit set		
	with GPRS-Subscription-Data-Indicator bit set		
	sends a UL-Answer		
	sends an ID-Request		
	containing a Subscription-Data AVP		
	containing a GPRS-Subscription-Data AVP		
	containing a Complete-Data-List-Included-Indicator AVP		
	containing a PDP-Context AVP		
	containing a Context-Identifier AVP		
	containing a PDN-Type A\		
	containing a QoS-Subscribed AVP		
Comments:	containing a Service-Select NOTE: TS as combined MME/SGSN con		
Comments:	INOTE. TO as combined MIME/SGSN con	iponent.	

TP_HSS_ISD_07		Standards Reference:	PICS item:
	Table 5	5.2.2.1.1/1 and 5.2.2.1.3¶13 and	
		7.2.9	
Summary:	Verify that the IUT can successfully initiate an ID-Request including empty Subscription-		
	Data AVP for the only purpose to request the MME about the UE reachability status notification.		
Test purpose:	Ensure that the IUT		
	to indicate a request for the only purpose to request the MME about the UE		
	reachability status notification		
	sends an ID-Request		
	containing an empty Subscription-Data AVP		
Comments:	NOTE:	Could be that at least some not re	elated AVP should be present within
		Subscriber Data AVP and correct	tion within TP if needed, will be done due to
		validation results.	

TP_HSS_ISD_08		Standards Reference:	PICS item:
	Table 5	.2.2.1.1/1 and 5.2.2.1.3¶14 and	
		7.2.9	
Summary:	Verify that	t the IUT in case when receives me	essage from a service related entity
	requestin	g EPS User State or EPS Location	Information than IUT successfully initiate an
	ID-Reque	est including empty Subscription-Da	ata AVP for the only purpose to request the
	MME Úse	er State or Location Information.	
Test purpose:	Ensure that the IUT		
	to indicate a request for the only purpose to request the MME about the User State		
	or Location Information		
	sends an ID-Request		
	containing an empty Subscription-Data AVP		
	containing an IDR-Flags AVP		
	with EPS User State Request bit set or		
	with EPS Location Information Request bit set		
Comments:	NOTE: Could be that at least some not related AVP should be present within		
		Subscriber Data AVP and correct	ion within TP if needed, will be done due to
		validation results.	

TP_HSS_ISD_09		Standards Reference:	PICS item:
	Table 5	5.2.2.1.1/1 and 5.2.2.1.3¶15 and	
		7.2.9	
Summary:			essage from an AS requesting the current
	access n	etwork's support status of IMS Voic	e over PS Session than IUT successfully
	initiate ar	n ID-Request including empty Subs	cription-Data AVP for the only purpose to
	retrieve I	MS Voice over PS Session Suppor	ted indication from MME.
Test purpose:	Ensure that the IUT		
	to indicate a request for the only purpose to retrieve IMS Voice over PS Session		
	Supported indication from MME.		
	sends an ID-Request		
	containing an empty Subscription-Data AVP		
	containing an IDR-Flags AVP		
	with T-ADS Data Request bit set.		
Comments:	NOTE:		elated AVP should be present within
		Subscriber Data AVP and correct	ion within TP if needed, will be done due to
		validation results.	

4.2.2.5 Delete Subscriber Data

Test Selection: IUT supports delete subscriber data procedures; PICS A.5/5.

TP_HSS_DSD_01	Standards Reference:	PICS item:	
	Table 5.2.2.2.1/1 and 5.2.2.2.3¶1 and		
	7.2.11		
Summary:	Verify that the IUT can successfully initiate a	a DS-Request including all mandatory AVP's	
	to remove deleted subscription data from the	e MME.	
Test purpose:	Ensure that the IUT		
	to indicate a request to remove deleted	subscription data from the MME	
	sends a DS-Request		
	containing a Session-ID AVP		
	containing an Auth-Session-State AVP		
	indicating NO_STATE_MAINTAINED		
	containing an Origin-Host AVP		
	containing an Origin-Realm AVP		
	containing a Destination-Host AVP		
	containing a Destination-Realm AVP		
	containing a User-Name AVP		
	containing a DSR-Flags AVP		
Comments:			

TP_HSS_DSD_02	Standards Reference:	PICS item:	
	Table 5.2.2.2.1/1 and 5.2.2.2.3¶2		
Summary:	Verify that the IUT can successfully initiate a		
	subscription data at the combined MME/SGS	SN.	
Test purpose:	Ensure that the IUT		
	to indicate a request to remove deleted	to indicate a request to remove deleted GPRS subscription data at the combined	
	MME/SGSN		
	sends a DS-Request		
	containing a DSR-Flags AVP		
	with PDP-Context-Withdrawal bit set		
	containing a Context-Identifier AVP		
Comments:	NOTE 1: TS as combined MME/SGSN con	nponent.	
	NOTE 2: Continuation of TP_HSS_ISD_06	•	

TP_HSS_DSD_03	Standards Reference:	PICS item:
	5.2.2.2.3¶3 and 7.3.25/Bit1	
Summary:	Verify that the IUT can successfully initiate a	DS-Request with DSR-Flags AVP where
	Complete-APN-Configuration-Profile-Withdrawal shall not be set.	
Test purpose:	Ensure that the IUT	
	to indicate a request to remove any subscription data from the MME	
	sends a DS-Request	
	containing a DSR-Flags AVP	
	with Complete-APN-Configuration	n-Profile-Withdrawal bit not set.
Comments:		

4.2.2.6 Authentication Information Retrieval

Test Selection: IUT supports Authentication Information Retrieval procedures; PICS A.5/6.

TP_HSS_AIR_01	Standards Reference:	PICS item:
	5.2.3.1.3¶1,13 and 7.2.6	
Summary:	Verify that the IUT can successfully process	all mandatory AVPs in an AI-
	Request.received due to Authentication Info	rmation Retrieval Procedure.
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Visited-PLMN-ID AVP	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	containing a Re-Synchronization-Info AVP	
	sends an Al-Answer	
	containing a Session-ID AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
Commonto	containing an Origin-Realm AVP.	
Comments:		

TP_HSS_AIR_02	Standards Reference:	PICS item:
	5.2.3.1.3¶1,13 and 7.2.6	A.2/1.1
Summary:	Verify that the IUT can successfully process all mandatory AVPs in an AI-	
	Request.received due to Authentication Info	rmation Retrieval Procedure.
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Visited-PLMN-ID AVP	
	containing a Requested-UTRAN-GERAN-Authentication-Info AVP	
	containing a Re-Synchronization-Info AVP	
	sends an Al-Answer	
	containing a Session-ID AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
	containing an Auth-Session-State AV	
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
Comments	containing an Origin-Realm AVP.	
Comments:	NOTE: TS as combined MME/SGSN con	nponent.

TP_HSS_AIR_03	Standards Reference:	PICS item:
	5.2.3.1.3¶1,2 and 7.4.3	
Summary:	Verify that the IUT when receiving AI-Reque	st shall check whether there is not any type
	of subscription for the IMSI and then the IUT	shall return Al-Answer with appropriate
	result code.	
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating not known IMSI	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	containing a Re-Synchronization-Info AVP	
	sends an Al-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result AVP	
	containing an Experimental-Result-Code AVP	
	indicating DIAMETER_ERROR_USER_UNKNOWN.	
Comments:		

TP_HSS_AIR_04	Standards Reference:	PICS item:
	5.2.3.1.3¶3 and 7.4.3	
Summary:	Verify that the IUT when receiving Al-Request shall check whether subscriber has neither EPS subscription nor GPRS subscription data and then the IUT shall return Al-Answer with appropriate result code.	
Test purpose:	Ensure that the IUT on receipt of an AI-Request containing a User-Name AVP indicating IMSI without EPS nor C sends an AI-Answer not containing a Result-Code AVP containing an Experimental-Result A' containing an Experimental-Result indicating DIAMETER_ERRO	VP
Comments:		

TP_HSS_AIR_05	Standards Reference:	PICS item:
	5.2.3.1.3¶3,4 and 7.4.3 and 7.3.128	A.5/6.1
Summary:	Verify that the IUT when receiving AI-Reque	st shall check whether subscriber has
	neither EPS subscription nor GPRS subscrip	
	Answer with appropriate result code and Err	or-Diagnostic AVP.
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating IMSI without EPS nor GPRS subscription data	
	sends an Al-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result AVP	
	containing an Experimental-Result-Code AVP	
	indicating DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
	containing an Error-Diagnostic AVP	
	indicating GPRS_DATA_SUBSCRIBED or	
	indicating NO_GPRS_DATA_SUI	BSCRIBED
Comments:		

TP_HSS_AIR_06	Standards Reference:	PICS item:	
	5.2.3.1.3¶1,6 and 7.3.18		
Summary:	Verify that the IUT when receiving AI-Reque		
	for the IMSI and in case when EUTRAN-Authentication-Info is requested the IUT shall		
	return Al-Answer with KASME-AVP within E-UTRAN-Vector.		
Test purpose:	Ensure that the IUT		
	on receipt of an Al-Request		
	containing a User-Name AVP	containing a User-Name AVP	
	indicating known IMSI		
	containing a Requested-EUTRAN-Authentication-Info AVP		
	containing a Re-Synchronization-Info AVP		
	sends an Al-Answer		
	containing a Result-Code AVP		
	indicating DIAMETER_SUCCESS		
	containing an E-UTRAN-Vector AVP		
	containing RAND AVP		
	containing XRES AVP		
	containing AUTN AVP		
	containing KASME AVP.		
Comments:			

TP_HSS_AIR_07	Standards Reference:	PICS item:
	5.2.3.1.3¶1,7	
Summary:	Verify that the IUT when receiving AI-Reque	st and in case if the AuC is unable to
	calculate any corresponding AVs due to una	llowed attachment for UE the IUT shall
	return Al-Answer with appropriate result cod	e.
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	containing a Re-Synchronization-Info AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_AUTHORIZATION_REJECTED	
	not containing an Authentication-Info AVP.	
Comments:	NOTE: The AuC is unable to calculate ar	y corresponding AVs.

TP_HSS_AIR_08	Standards Reference: 5.2.3.1.3¶1,7	PICS item:	
0	" ,		
Summary:	Verify that the IUT when receiving Al-Reque		
		able to calculate any corresponding AVs due	
	to unknown failures, such as the internal dat	abase error, the IUT shall return Al-Answer	
	with appropriate result code.		
Test purpose:	Ensure that the IUT		
	on receipt of an Al-Request		
	containing a User-Name AVP		
	indicating known IMSI		
	containing a Requested-EUTRAN-Authentication-Info AVP		
	containing a Re-Synchronization-Info AVP		
	sends an Al-Answer		
	not containing a Result-Code AVP		
	containing an Experimental-Result AVP		
	containing an Experimental Result-Code AVP		
	indicating DIAMETER AUTHENTICATION DATA UNAVAILABLE.		
Comments:		AV is available and the AuC is unable to	
		due to unknown failures, such as the internal	
	, , ,	due to difficioni fallules, such as the internal	
	database error.		

TP_HSS_AIR_09	Standards Reference:	PICS item:	
	5.2.3.1.3¶1,9,13		
Summary:	Verify that the IUT when receiving AI-Reque		
	for the IMSI and in case when EUTRAN-Aut	hentication-Info is requested the IUT shall	
	return AI-Answer with E-UTRAN authenticat	ion vectors.	
Test purpose:	Ensure that the IUT		
	on receipt of an Al-Request	on receipt of an Al-Request	
	containing a User-Name AVP		
	indicating known IMSI		
	containing a Requested-EUTRAN-Authentication-Info AVP		
	containing a Number-Of-Requested-Vectors AVP		
	sends an Al-Answer		
	containing a Result-Code AVP		
	indicating DIAMETER_SUCCESS		
	containing an Authentication-Info AVP		
	containing an E-UTRAN-Vector AVP.		
Comments:			

TP_HSS_AIR_10	Standards Reference:	PICS item:
	5.2.3.1.3¶1,9,13	A.2/1.1
Summary:	Verify that the IUT when receiving AI-Reque	
	for the IMSI and in case when UTRAN-GER	AN-Authentication-Info is requested the IUT
	shall return Al-Answer with UTRAN or GERAN authentication vectors to combined MME/SGSN.	
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Requested-UTRAN-GERAN-Authentication-Info AVP	
	containing a Number-Of-Requested-Vectors AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
	containing an Authentication-Info AVP	
	containing an UTRAN-Vector AVP or	
	containing a GERAN-Vector AVP.	
Comments:	NOTE: TS as combined MME/SGSN con	nponent.

TP_HSS_AIR_11	Standards Reference:	PICS item:
	5.2.3.1.3¶1,10,13	A.5/6.2
Summary:	Verify that the IUT when receiving AI-Reque	st shall check whether there is subscription
	for the IMSI and in case when Immediate-Re	
	the IUT shall return Al-Answer with less retu	rned vectors than requested.
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	containing a Immediate-Response-Preferred AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
	containing an Authentication-Info AVP	
	containing an E-UTRAN-Vector A	VP.
Comments:		

TP_HSS_AIR_12	Standards Reference:	PICS item:
	5.2.3.1.3¶1,10,13	A.5/6.2
Summary:	Verify that the IUT when receiving AI-Reque	st shall check whether there is subscription
	for the IMSI and in case when Immediate-Re	
	and Number-Of-Requested-Vectors AVP is	present the IUT shall return AI-Answer with
	less returned vectors than requested.	
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	containing a Number-Of-Requested-Vectors AVP	
	containing an Immediate-Response-Preferred AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
	containing an Authentication-Info AV	
	containing an E-UTRAN-Vector AVP.	
Comments:		

TP_HSS_AIR_13	Standards Reference:	PICS item:
	5.2.3.1.3¶1,10,13	A.2/1.1 and A.5/6.2
Summary:	Verify that the IUT when receiving Al-Request shall check whether there is subscription for the IMSI and in case when UTRAN-GERAN-Authentication-Info and EUTRAN-Authentication-Info is requested and one of them include the Immediate Response Preferred parameter the IUT shall return Al-Answer with KASME including E-UTRAN authentication vectors to combined MME/SGSN.	
Test purpose:	Ensure that the IUT on receipt of an Al-Request containing a User-Name AVP indicating known IMSI containing a Requested-EUTRAN-Au containing an Immediate-Response containing a Requested-UTRAN-GEF containing a Number-Of-Requested sends an Al-Answer containing a Result-Code AVP indicating DIAMETER_SUCCESS containing an Authentication-Info AVI containing an E-UTRAN-Vector A containing a KASME AVP.	se-Preferred AVP RAN-Authentication-Info AVP ed-Vectors AVP
Comments:	NOTE 1: TS as combined MME/SGSN con NOTE 2: Immediate-Response-Preferred A Authentication-Info AVP.	

TP_HSS_AIR_14	Standards Reference:	PICS item:
	5.2.3.1.3¶1,10,13	A.2/1.1 and A.5/6.2
Summary:	Verify that the IUT when receiving AI-Reque	
	for the IMSI and in case when UTRAN-GER.	
	Authentication-Info is requested and one of	
	Preferred parameter the IUT shall return Al-	
	authentication vectors to combined MME/SG	SN.
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	containing a Number-Of-Requested-Vectors AVP	
	containing a Requested-UTRAN-GERAN-Authentication-Info AVP	
	containing an Immediate-Response-Preferred AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
	containing an Authentication-Info AV	
	containing an E-UTRAN-Vector A	VP or
	containing a KASME AVP.	
Comments:	NOTE 1: TS as combined MME/SGSN con	
	NOTE 2: Immediate-Response-Preferred A	VP within Requested-UTRAN-GERAN-
	Authentication-Info AVP.	

TP_HSS_AIR_15	Standards Reference:	PICS item:
	5.2.3.1.3¶1,11	
Summary:	Verify that the IUT when receiving AI-Reque	
	for the IMSI and in case when EUTRAN-Aut	
	Synchronization-Info AVP is present the IUT	shall return Al-Answer including
	authentication vectors to MME.	
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	containing a Re-Synchronization-Info AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER SUCCESS	
	containing an Authentication-Info AVP	
	containing an E-UTRAN-Vector AVP.	
Comments:		

TP_HSS_AIR_16	Standards Reference:	PICS item:
	5.2.3.1.3¶1,11	
Summary:	Verify that the IUT when receiving Al-Request shall check whether there is subscription for the IMSI and in case when UTRAN-GERAN-Authentication-Info and EUTRAN-Authentication-Info is requested and both of them include the Re-Synchronization-Info AVP the IUT shall return Al-Answer with appropriate result code and any authentication vectors shall not be present.	
Test purpose:	Ensure that the IUT on receipt of an Al-Request containing a User-Name AVP indicating known IMSI containing a Requested-EUTRAN-Au containing a Re-Synchronization- containing a Requested-UTRAN-GEF containing a Re-Synchronization- sends an Al-Answer containing a Result-Code AVP indicating DIAMETER_UNABLE_ not containing an Authentication-Info	Info AVP RAN-Authentication-Info AVP Info AVP TO_COMPLY
Comments:	Ŭ	

TP_HSS_AIR_17	Standards Reference:	PICS item:
	5.2.3.1.3¶1,12	
Summary:	Verify that the IUT when receiving AI-Reque	st shall check whether there is subscription
	for the IMSI and in case when more than on	e EPS or UTRAN or GERAN Vector is to be
	included within one Authorization-Info AVP t	he IUT shall return Al-Answer with
	appropriate result code and the Item-Number	er AVP shall be present within each Vector.
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
	containing an Authentication-Info AVP.	
	containing an E-UTRAN-Vector AVP	
	containing an Item-Number AVP for each Vector	
Comments:	NOTE: More than one EPS Vector to be	included in one Authentication-Info AVP.

TP_HSS_AIR_18	Standards Reference:	PICS item:
	5.2.3.1.3¶1,12	
Summary:	Verify that the IUT when receiving AI-Reque	
	for the IMSI and in case when more than on	e EPS or UTRAN or GERAN Vector is to be
	included within one Authorization-Info AVP t	he IUT shall return Al-Answer with
	appropriate result code and the Item-Number	r AVP shall be present within each Vector.
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	containing a Requested-UTRAN-GERAN-Authentication-Info AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
	containing an Authentication-Info AVP.	
	(containing a UTRAN-Vector AVP or	
	containing a GERAN-Vector AVP)	
	containing an Item-Number AVP for each Vector	
Comments:	NOTE 1: TS as combined MME/SGSN con	nponent.
	NOTE 2: more than one UTRAN or GERAN	Nector to be included in one
	Authentication-Info AVP.	

4.2.2.7 Reset

Test Selection: IUT supports Reset procedures; PICS A.5/7.

TP_HSS_RES_01	Standards Reference:	PICS item:
	Table 5.2.4.1.1/1 and 5.2.4.1.3 and	
	7.2.15	
Summary:		an RS-Request including all mandatory AVP's
	to indicate to all relevant MMEs and combin	ed MIME/SGSNS that 101 has restarted.
Test purpose:	Ensure that the IUT	
	to indicate to the MME that IUT has restarted	
	sends an RS-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO STATE MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Host AVP	
	containing a Destination-Realm AVP	
Comments:		

4.2.2.8 Notification

Test Selection: IUT supports Notification procedures; PICS A.5/8.

TP_HSS_NOT_01	Standards Reference:	PICS item:
	Table 5.2.5.1.1/2 and 5.2.5.1.3¶4 and	
	7.2.18	
Summary:	Verify that the IUT can successfully process	all mandatory AVPs in an NO-
	Request.received due to Notification Proced	ure.
Test purpose:	Ensure that the IUT	
	on receipt of an NO-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	P
	indicating NO STATE MAINTAINED	
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Destination-Realm AVP	
	containing a User-Name AVP	
	indicating known IMSI	
	sends an NO-Answer	
	containing a Session-ID AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
	containing an Auth-Session-State AV	P
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP.	
Comments:		

TP_HSS_NOT_02	Standards Reference:	PICS item:
	5.2.5.1.3¶1,2 and 7.4.3	
Summary:	Verify that the IUT when receiving an NO-Re	equest shall check whether the IMSI is
	known and if not then the IUT shall return NO-Answer with appropriate result code.	
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating not known IMSI	
	sends an Al-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result AVP	
	containing an Experimental-Result-Code AVP	
	indicating DIAMETER_ERROR_USER_UNKNOWN.	
Comments:		

TP_HSS_NOT_03	Standards Reference:	PICS item:
	5.2.5.1.3¶1,3 and 7.4.3	
Summary:	Verify that the IUT when receiving an NO-Re	equest shall check whether the IMSI is
	known and source MME originating is not cu	rrently registered within IUT for that UE then
	the IUT shall return NO-Answer with appropriate result code.	
Test purpose:	Ensure that the IUT	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	indicating known IMSI	
	sends an Al-Answer	
	not containing a Result-Code AVP	
	containing an Experimental-Result AVP	
	containing an Experimental-Result-Code AVP	
	indicating DIAMETER_ERROR_UNKNOWN_SERVING_NODE.	
Comments:		

History

Document history		
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