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Contents

Intelle	ectual Property Rights	4
Forew	vord	4
Moda	l verbs terminology	4
1	Scope	5
2	References	5
2.1 2.2	Normative references	5
3	Definitions and abbreviations	6
3.1 3.2	Definitions	6 6
4	Test Suite Structure (TSS) and Test Purposes (TP)	6
4.1	Test Suite Structure	6
4.1.1	TP naming convention	6
4.1.2	Test strategy	6
4.1.3	TP structure	6
4.2	Test Purposes	7
4.2.0	PICS references	7
4.2.1	MME Role	7
4.2.1.0) Test Selection	
4.2.1.1	Update Location	8
4.2.1.2	Cancel Location	10
4.2.1.3	Purge UE	
4.2.1.4	Insert Subscriber Data	
4.2.1.5	Delete Subscriber Data.	
4.2.1.0	Authentication Information Retrieval	
4.2.1./	V Keset	
4.2.1.0	Nouncation	
4.2.2	Tost Colorian	
4.2.2.0	Undate Location	
4.2.2.1	Concel Location	
4.2.2.2	2 Durge UE	20 28
4.2.2.3	Insert Subscriber Data	
4225	Delete Subscriber Data	
4226	Authentication Information Retrieval	,
4227	Reset	
4.2.2.8	Notification	
Histor	ry	45

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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

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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 ETSI 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 ETSI ETS 300 406 [5].

2 References

2.1 Normative 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.

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

- [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".
- [6] IETF RFC 3588: "Diameter Base Protocol".

2.2 Informative 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.

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

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.

3 Definitions and abbreviations

3.1 Definitions

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

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

4.1.2 Test strategy

As the base standard ETSI 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 ETSI 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.

TP part	Text	Example		
Header	<identifier></identifier>	see table 1		
	<clause 129="" 272="" [1]="" base="" etsi="" 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		
lucities l		session establishment.		
Initial	Free text description of the condition that the IUT has reached	I he IUT has received AF provisions		
condition	before the test purpose applies.	Information about the AF signalling		
(optional) Start poin	t Engure that the ILIT in the	nows between DE and AF.		
Start poin		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, etc.		
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) containing $a(n) < ave names AV/P$	(See hote 2)		
	b) indicating $a(n) < avp name > AvP$			
	and back to a) or b) (see note 3)			
NOTE 1.	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.			
NOTE 2:	All messages shall be considered as "valid and compatible" unless	otherwise specified in the test		
	purpose. This includes the presence of all mandatory AVPs as spe	cified in IETF RFC 3588 [6] and in		
	ETSI TS 129 272 [1], clause 7.			
NOTE 3:	An AVP can be embedded into another AVP. This is expressed by	AVP can be embedded into another AVP. This is expressed by indentations, e.g. if Message1 contains		
	AVP1 and AVP2 where AVP1 has AVP3 embedded this will be exp	pressed like this:		
	sends/receives Message 1			
	containing AVP1			
	containing AVP3			
	Indicating			
	indianting AVP2			
1	multating			

Table 2: Structure of a single TP

4.2 Test Purposes

4.2.0 PICS references

All PICS items referred to in this clause are as specified in ETSI 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

4.2.1.0 Test Selection

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

Test Selection:	IUT supports location m	anagement procedures; PICS A.3/1.
1 000 000000000000000000000000000000000	re i supporto rocution in	

	Standards Peference:	PICS item:
	5.2.1.1.1 and 7.2.2	FIGS item.
	5.2.1.1.1 allu 7.2.5	
Summary:	Verify that the IUT can indicate request for u	pdate location information to inform HSS
	about the identity of the currently serving use	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 AV	'P
	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	
Comments:		

TP_MME_UL_02	Standards Reference: 5.2.1.1.2¶4	PICS item: A.2/1.2
Summary:	Verify that the IUT due to an inter node (SG where "Single-Registration-Indication" is set	SN to MME) update sends UL-Request
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	n bit set
Comments:		

TP MME UI 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_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		
	with Initial-Attach-Indicator bit set		
	containing a Visited-PLMN-ID AVP		
Comments:			

TP_MME_UL_04	Standards Reference:	PICS item:	
		A.2/1.1	
Summary:	Verify that the IUI, when subscriber data are	e already available due to previous location	
	update, successfully processes additional re	equest 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 AV	′P	
	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		
	with Skip-Subscriber-Data bit set		
	containing a Visited-PI MN-ID AVP		
Comments:			
00111101113.			

TP_MME_UL_05	Standards Reference:	PICS item:
	J.Z. I. I.Z /	A.2/1.1 dilu A.3/1.1
Summary:	Verify that the IUT, that has chosen the optic request is prepared to receive a single subs when the subscription data is modified.	on to include the SSGN number within ULR cription data update message IDR from HSS
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¶/	A.2/1.1 and A.3/1.1
Summary:	Verify that the IUT, that has chosen the optic request is prepared to receive a single subs HSS when the subscription data is modified	on to include the SSGN number within ULR cription data update message DSR from
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, does not indicate its support for any SGSN specific	
	features and does 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-Inc	licator bit not set
	with Node-Type-Indicator bit not	set
Comments:		

4.2.1.2 Cancel Location

Test Sciention. To T supports cancel location procedures, Tres A.3/2	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	cation request checks whether the IMSI is
	known and if not the IUT shall return Cancel	location response with all mandatory AVPs
	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	Ϋ́Ρ
	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:		

TP MME CL 02	Standards Reference:	PICS item:
	Table 5.2.1.2.1/2 and 5.2.1.2.2¶3 and	
	7.2.8	
Summary:	Verify that the IUT when receiving Cancel lo	cation request checks whether the IMSI is
	known and if cancelation type of "Initial attac	ch procedure" is received then the IUT shall
	return Cancel location response with approp	priate 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	/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 Cancelation-Type AVP	
	indicating INITIAL_ATTACH_PROCEDURE,	
	sends a CL-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	
Comments:		

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 purge UE procedure.	
Test purpose:	Ensure that the IUT	
	to indicate a request for purge UE proceed	dure,
	sends a PU-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVF	
	indicating NO_STATE_MAINTAIN	ED
	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 makes use of UE Purge	procedure and sets appropriate flag when the
	subscription profile is deleted from database	e 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: 5.2.1.3.2¶3	PICS item: A.2/1.1
Summary:	Verify that the IUT makes use of UE Purge the subscription profile is deleted from datability registered accesses.	procedure and sets appropriate flags when base or after long UE inactivity on all
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 with "UE Purged in SGSN" bit set	
Comments:		

TP_MME_PUE_04	Standards Reference: 5.2.1.3.2¶3	PICS item: A.2/1.1 and A.4/13
Summary:	Verify that in case when HSS indicates support for Partial Purge feature IUT may also 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 sends a UL-Request on receipt of a UL-Answer containing a Supported-Features AV 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 with "UE Purged in SGSN" bit set	n information, P
Comments:		

4.2.1.4 Insert Subscriber Data

Test Selection:	IUT supports subscriber data handling procedures; PICS A.3/4.
rest selection.	To I supports subscriber duta nunaning procedures, 11cb 11.5/1.

TP_MME_ISD_01	Standards Reference: Table 5.2.2.1.1/2 and 5.2.2.1.2¶4 and	PICS item:
Summariu	Varify that the UIT when receiving on ID De	upot abable whether the IMCL is known and
Summary.	returns lagert Subscriber Dete response with	quest checks whether the INSLIS known and
	result and	an manualory AVPS and with appropriate
Test numeros		
Test purpose:	Ensure that the IUI	
	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,	
	sends an ID-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	
Comments:		

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-Re	quest checks whether the IMSI is known and	
	if not the IUT returns Insert Subscriber 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 AVP		
	containing an Experimental-Result-Code AVP		
	indicating DIAMETER_ERROR_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 returns Insert Subscriber Data
	response with time stamp of UE's most rece	nt radio contact, and the associated RAT
	Type, and an indication of whether or not IM	S 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-Se	essions-Supported AVP
	containing a Last-UE-Activity-Time A	VP
	containing a RAT-Type AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	
Comments:		

TP MME ISD 04	Standards Reference:	PICS item:
	5.2.2.1.2¶18	
Summary:	Verify that the IUT when receiving an ID-Re	quest with IDR-Flags with "T-ADS Data
	Request" bit set and when UE is in detached	state the IUT returns Insert Subscriber Data
	response not including any of T_ADS IEs.	
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-P	S-Sessions-Supported AVP
	not containing a Last-UE-Activity-Tin	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-Re	quest with IDR-Flags with "EPS User State
	Request" bit set the IUT returns Insert Subs	criber 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	3
Comments:		

TP_MME_ISD_06	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 Location
	Information Request" bit set the IUT returns Insert Subscriber 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 Location Information Re	equest bit set,
	sends an ID-Answer	
	containing an EPS-Location-Informat	ion AVP
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
Comments:		

		DIOO it	
IP_MME_ISD_07	Standards Reference:	PICS item:	
	5.2.2.1.2¶19		
Summary:	Verify that the IUT when receiving an ID-Red	quest with IDR-Flags with "EPS User State	
	Request" bit set and with "EPS Location Information Request" bit set the IUT returns		
	Insert Subscriber 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 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-Request with IDR-Flags with "EPS User State	
	Request" bit set and with "EPS Location Information Request" bit set and with "Current	
	Location Request" bit set and UE is in idle mode the IUT returns 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 Re	equest 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-Informat	ion AVP
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	8
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	quest with IDR-Flags with only "Current
	Location Request" bit set the IUT returns Insert Subscriber Data response including	
	corresponding result code.	
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 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:	PICS item:
Summaria	S.2.2.1.2 4,5 and 7.2.9	l mandatory and antianal AV/Da in an
Summary.	Up Bequest reacting due to subscriber date heading processes an manuality and optional AVFS in an	
	related to the user's subscribed APN configu	rations for EPS
Test nurneses	Ensure that the ULT	
rest purpose.	on receipt of an ID-Pequest	
	containing a Session-ID AVP	
	containing a Session-ID AVP	
	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 All-APN-Configu	urations-Included-Indicator AVP
	containing an APN-Configurat	ion AVP
	containing a Context-Ident	ifier AVP
	containing a PDN-Type A	/P
	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	′Ρ
	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:	NOTE: PDN GW address has been static	cally allocated and PDN-GW-Allocation-Type
	AVP is not present within an APN	-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 successfully processes 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	(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 a GPRS-Subscription-	Data AVP
	containing a Complete-Data-L	ist-Included-Indicator AVP
	containing a PDP-Context AV	P
	containing a Context-Ident	tifier AVP
	containing a PDP-Type A	/P
	containing a QoS-Subscrit	bed AVP
	containing a Service-Selec	ction AVP,
	sends an ID-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:		

TP_MME_ISD_12	Standards Reference:	PICS item:
	5.2.2.1.2¶12-17 and 7.2.9	
Summary:	Verify that the IUT successfully processes al	II mandatory and optional AVPs in an
	ID-Request received due to subscriber data	handling.
Test purpose:	Ensure that the IUT	
	on receipt of an ID-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	Ϋ́Ρ
	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 Operator-Determine	
	containing an ACCess-Restriction-	
	containing an APN-OI-Replaceme	ion Zono Codo AVR
	containing an Regional-Subscription	
	containing a CSG-Subscription-D	
	containing a COO-lu AVI	
	containing a TS-Code AVP	
	containing a Call-Barring-Info AV	C
	containing an SS-Code AVP	
	containing an SS-Status AVP	
	containing a LCS-Info AVP,	
	sends an ID-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:		

4.2.1.5 Delete Subscriber Data

Test Selection. TO I supports defete subscriber data procedures, Thes A.S.	Test Selection:	IUT supports delete subscriber data procedures; PICS A.3/5
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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 ILIT when receiving a DS-Rec	uest shall check whether the IMSI is known
ounnury.	and if it is the IUT returns Delete Subscriber	Data response with all mandatory AVPs 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	Ϋ́Ρ
	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 INISI	
	containing a DSR-Flags AVP,	
	containing a Session-ID AVP	
	containing a Session-D AVI	′P
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	3
Comments:		

18

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 returns 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	VP
	containing an Experimental-Resu	It-Code AVP
	indicating DIAMETER_ERRO	R_USER_UNKNOWN
Comments:		

TP MME DSD 03	Standards Reference:	PICS item:
		r ioo item.
	5.2.2.2¶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 associated with the default APN configuration the IUT	
	returns 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	
	containing a Context-Identifier AVP	
	indicating default APN configurati	on
	containing a DSR-Flags AVP	
	with PDN-subscription-context-W	ithdrawal 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:	Verify that the IUT when receiving a DS-Rec	uest checks whether the IMSI is known and
	in case if Complete-APN-Configuration-Profile-Withdrawal bit is set within DSR-flags	
	then the IUT returns 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 known IMSI	
	containing a DSR-Flags AVP	
	with Complete-APN-Configuration	n-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	uthentication Information Retrieval	
	Procedure triggered by a synchronization fai	lure 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 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 Authentication Information Retrieval		
-	Procedure triggered by a synchronization fai	lure during UTRAN or GERAN	
	authentication.		
Test purpose:	Ensure that the IUT		
	to indicate a request for Authentication	nformation 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-GEF	RAN-Authentication-Info AVP	
	containing a Re-Synchronization-	Info AVP	
	itpresent containing a Requested-EU	JIRAN-Authentication-Info AVP	
	not containing a Re-Synchronizat	ION-INTO AVP	
Comments:			

		DIGG 14
IP_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 A	Authentication Information Retrieval
	Procedure with the Requested-UTRAN-GER	AN-Authentication-Info AVP and the
	Requested-EUTRAN-Authentication-Info the	n the Immediate-Response-Preferred AVP
	shall not be present in both.	
Test purpose:	Ensure that the IUT	
	to indicate a request for Authentication I	nformation 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 and	
	containing a Requested-EUTRAN-Au	thentication-Info AVP)
	containing an Immediate-Respons	se-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	uest returns RS-Answer with all mandatory
	AVPs and with appropriate result 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	IED
	containing an Origin-Host AVP	
	containing an Origin-Realm AVP	
	containing a Result-Code AVP	
	indicating DIAMETER_SUCCESS	6
Comments:		

4.2.1.8 Notification

TP_MME_NOT_01	Standards Reference: Table 5.2.5.1.1/1 and 5.2.5.1.2 and 7.2.17	PICS item:
Summary:	Verify that the IUT that does not support Em Notification Procedure.	ergency services can indicate request for
Test purpose:	Ensure that the IUT to indicate a request for Notification Pro sends an NO-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	ocedure, /P NED
Comments:		

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

4.2.2 HSS Role

4.2.2.0 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 successfully processes a	I mandatory AVPs in a UL-Request received	
	due to Update Location procedure.		
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request		
	containing a Session-ID AVP		
	containing an Auth-Session-State AV	Ϋ́Ρ	
	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 KAI-Type AVP		
	containing a ULR-Flags AVP		
	with Soa-multator bit set		
	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 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 successfully processes al	I mandatory and optional AVPs in a
	UL-Request received due to Update Locatio	n procedure.
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	P
	indicating NO_STATE_MAINTAIN	IED
	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 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions AVP	
	containing an Active-APN AVP	_
	containing a Context-Identifier AV	P
	containing Service-Selection AVP	
	containing MIP6-Agent-Info AVP	
	containing Visited-Network-Identif	ier AVP,
	sends a UL-Answer	
	containing a Session-ID AVP	
	containing a Result-Code AVP	
	Indicating DIAMETER_SUCCESS	
	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 checks whether subscript	tion data exists for IMSI and if not IUT returns
	appropriate Result-Code AVP.	
Test purpose:	Ensure that the IUT	
	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 no APN configuration returns 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 A containing an Experimental-Result indicating DIAMETER_ERRO not containing a ULA-Flags AVP not containing a Subscription-Data A	VP lt-Code AVP R_UNKNOWN_EPS_SUBSCRIPTION .VP
Comments:		

TP_HSS_UL_05	Standards Reference:	PICS item:	
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶5 and	A.5/1.1	
	7.4.3		
Summary:	Verify that the IUT in case if subscriber has	no APN configuration returns 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	nat the UE is using is not allowed returns
	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 A	VP
Comments:		

TP_HSS_UL_07	Standards Reference:	PICS item:
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶7 and 7.4.3	A.5/1.2
Summary:	Verify that the IUT in case if roaming is not allowed in the VPLMN due to ODB returns 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 A containing an Experimental-Result indicating DIAMETER_ERRO not containing a ULA-Flags AVP not containing a Subscription-Data A	VP llt-Code AVP R_ROAMING_NOT_ALLOWED
Comments:		

TP_HSS_UL_08	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 sends CL Request to the	
	previous old MME.		
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request from previo	us MME	
	containing a ULR-Flags AVP	containing a ULR-Flags AVP	
	with S6a bit set		
	sends a UL-Answer to previous MME		
	on receipt of a UL-Request from new MME,		
	sends a CL-Request to previous MME		
	containing a Cancellation-Type AVP		
	indicating MME_UPDATE_PROCEDURE		
	on receipt of a CL-Answer from previous MME		
	sends a UL-Answer to new MME		
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 sends CL Request to the	
	previous old SGSN.	· · · · · · · · · · · · · · · · · · ·	
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request from previo	ous SGSN	
	containing a ULR-Flags AVP		
	with S6a bit not set		
	sends a UL-Answer to previous SGSN		
	on receipt of a UL-Request from new MME		
	containing a ULR-Flags AVP		
	with Single-Registration-Indication bit set		
	with S6a 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 involv	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 sends CL Request to the	
	previous old SGSN.		
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request from previo	us SGSN	
	containing a ULR-Flags AVP		
	with S6a bit not set		
	sends a UL-Answer to previous SGSN		
	on receipt of a UL-Request from new MME		
	containing a ULR-Flags AVP		
	with Initial-Attach-Indicator bit set		
	with S6a 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 involv	red 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 sends CL Request to the	
	previous old SGSN.		
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request from previo	us SGSN	
	containing a ULR-Flags AVP		
	with S6a bit not set		
	sends a UL-Answer to previous SGSN		
	on receipt of a UL-Request from new MME		
	containing a ULR-Flags AVP		
	with Single-Registration-Indication bit set		
	with Initial-Attach-Indicator bit set		
	with S6a 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 involv	ed as test components.	

TP_HSS_UL_12	Standards Reference:	PICS item:	
	and 7.3.34 and 7.3.35		
Summary:	Verify that the IUT successfully processes a	UL-Request and sends a UL-Answer with	
	the APN-Configuration-Profile AVP 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:	PICS item:	
	Table 5.2.1.1.1/2 and 5.2.1.1.3¶21		
Summary:	Verify that the IUT successfully processes a	UL-Request and sends a UL-Answer with	
	the Subscriber-Status AVP present in the Subscriber-Status AVP	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 Subscriber-Status AVP		
	indicating OPERATOR_DETERMINED_BARRING		
	(containing an Operator-Determined-Barring AVP or		
	containing an HPLMN-ODB AVP		
Comments:			

26

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	A.5/2	
	Table 5.2.1.2.1/1 and 5.2.1.2.3 2 and 7.2.7		
Summary:	Verify that the IUT successfully initiates all ma	ndatory AVPs in a CL-Request due to	
	Cancel Location procedure to inform MME abo	out subscriber's subscription withdrawal.	
Test purpose:	Ensure that the IUT		
	to indicate a request for cancel location p	rocedure to inform MME about subscriber's	
	subscription withdrawal,		
	sends a CL-Request to previous MME		
	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_WITHE	DRAWAL	
Comments:			

	Ctondordo Deference:		
1P_H55_CL_02	Standards Reference:	PICS Item:	
	5.2.1.2.1¶1(2 nd dashed line) and	A.5/2	
	Table 5.2.1.2.1/1 and 5.2.1.2.3 and 7.2.7		
Summary:	Verify that the IUT successfully initiates all ma	ndatory AVPs in a CL-Request due to	
	Cancel Location procedure to inform MME abo	out an ongoing update procedure.	
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request from previous	s MME	
	containing a ULR-Flags AVP		
	with S6a bit set		
	sends a UL-Answer to previous MME		
	on receipt of a UL-Request from new MME		
	sends a CL-Request to previous MME		
	containing a Session-ID AVP		
	containing an Auth-Session-State AVP		
	indicating NO_STATE_MAINTAINE	D	
	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_PROCE	DURE	
	on receipt of a CL-Answer from previous MME		
	sends a UL-Answer to new MME		
Comments:	NOTE: 2 MME could be involved as test co	mponents.	

TP HSS CL 03	Standards Reference:	PICS item:
II _1100_0E_00	5.2.1.2.1¶1/3 rd dashed line) and	Δ 5/2
	$5.2.1.2.1$ [1(5^{-1} udsheu iiie) aliu Table 5.2.1.2.1/1 and 5.2.1.2.2 [2] and 7.2.7	A.3/2
•		
Summary:	Verify that the IUT successfully initiates all ma	ndatory AVPs in a CL-Request due to
	Cancel Location procedure to inform MME abo	out an initial attach procedure.
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request from previous	s MME
	containing a ULR-Flags AVP	
	with S6a bit set	
	sends a UL-Answer to previous MME	
	on receipt of a UL-Request from new MME	
	containing a ULR-Flags AVP	
	with Initial-Attach-Indicator bit set	
	with S6a bit set,	
	sends a CL-Request to previous MME	
	containing a Session-ID AVP	
	containing an Auth-Session-State AVP	
	indicating NO_STATE_MAINTAINE	D
	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_PROC	EDURE
	on receipt of a CL-Answer from previous	MME
	sends a UL-Answer to new MME	

Comments:	NOTE:	2 MME could be involved as test components.

	Standards Peference:	PICS item:
TF_H33_CL_04	5.2.1.2.1 and Table 5.2.1.2.1/1 and	
	5.2.1.2.1 and Table $5.2.1.2.1$ and $5.2.1.2.1$	R.3/2
Cummon/	S.2.1.2.5 [] 2 and 7.2.7	andatam (A)/Da in a CL Dequast due to
Summary:	Ceneral Leastion presedure and ULT conde	Inductory AVPS In a CL-Request due to
	Cancel Location procedure and for sends C	LR to combined MME/SGSN during Initial
Teet numeeee	attach procedure.	
Test purpose:	Ensure that the IU	
	on receipt of a UL-Request from previo	US MIME/SGSN
	containing a ULR-Flags AVP	
	with S6a bit set	
	with Node-Type-Indicator bit set	001
	sends a UL-Answer to previous MIME/S	
	on receipt of a UL-Request from new N	1ME
	containing a ULR-Flags AVP	
	with Initial-Attach-Indicator bit set	
	with Soa bit set,	
	sends a CL-Request to previous MIME/S	SGSN
	containing a Session-ID AVP	
	containing an Auth-Session-State AV	
		NED
	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_PRC	DCEDURE
	containing a CLR-Flags AVP	
	with S6a-indicator bit set	
	on receipt of a CL-Answer from previou	JS MME/SGSN
	sends a UL-Answer to new MME	
Comments:	NOTE: Combined MME/SGSN and new	MME involved as test components.

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

TP HSS PUE 01	Standards Reference:	PICS item:		
	Table 5.2.1.3.1/2 and 7.2.14			
Summary:	Verify that the IUT successfully processes a	Il mandatory and optional AVPs in a		
	PU-Request received due to purge UE proce	edure.		
Test purpose:	Ensure that the IUT			
	on receipt of a PU-Request			
	containing a Session-ID AVP			
	containing an Auth-Session-State AV	Ϋ́Ρ		
	indicating NO_STATE_MAINTAINED			
	containing an Origin-Host AVP			
	containing an Origin-Realm AVP			
	containing a Destination-Realm AVP			
	containing a User-Name AVP,			
	sends a PU-Answer	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	NED		
	containing an Origin-Host AVP			
	containing an Origin-Realm AVP			
Comments:				

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-Request checks whether the IMSI is known and if		
	not the IUT returns 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 A	VP	
	containing an Experimental-Resu	It-Code AVP	
	indicating DIAMETER_ERRO	R_USER_UNKNOWN	
Comments:			

TP HSS PUE 03	Standards Reference:	PICS item:
	5.2.1.3.3¶1,3 first dash line	A.2/1.1 and A.5/3.1
Summary:	Verify that the IUT when receiving PU-Request checks if the IMSI is known and received	
	identity matches the stored MME-identity an	d stored SGSN-identity and when the Partial
	Purge is supported IUT sets 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,	
	containing a ULR-Flags AVP	
	with Node-Type-indicator bit set	
	sends 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	
	on receipt of a PU-Request	
	containing an Origin-Host AVP	
	indicating stored MME identity an	d stored SGSN identity
	containing a User-Name AVP	
	Indicating known IMSI	
	containing a PUR-Flags AVP	
	With "UE Purged in WIVIE" bit set	
	sends a PU-Answer	
	indiacting DIAMETER SUCCESS	`
	Indicating DIAMETER_SUCCESS	
	with "froozo M TMSI" bit sot	
Commonts:		
comments:	INUTE. DE Pulged IN MIME.	

TP_HSS_PUE_04	Standards Reference:	PICS item:
	5.2.1.3.3¶1,3 first dash line	A.2/1.1 and A.5/3.1
Summary:	Verify that the IUT when receiving PU-Request checks if the IMSI is known and received	
	identity matches the stored MME-identity an	d stored SGSN-identity and when the Partial
	Purge is supported IUT sets PUA flags acco	rding to the serving node where the purge
	was done (SGSN).	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request,	
	containing a ULR-Flags AVP	
	with Node-Type-indicator bit set	
	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 an	d 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	
		6
	containing a PUA-Flags AVP	
Commenter	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.2/1.1 and Not A.5/3.1
Summary:	Verify that the IUT when receiving PU-Request checks if the IMSI is known and received	
	identity matches the stored MME-identity and stored SGSN-identity and when the Partial	
	Purge is not supported IUT sets PUA flags "	freeze M-TMSI" and "freeze P-TMSI".
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a ULR-Flags AVP	
	with Node-Type-indicator bit set	
	sends a UL-Answer	
	not containing a Supported-Features AVP	
	containing a Feature-List AVP	
	indicating Partial Purge	
	on receipt of a PU-Request	
	containing an Origin-Host AVP	
	indicating stored MME identity an	d 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	
	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	A.2/1.1
Summary:	Verify that the IUT when receiving PU-Requi	est checks if the IMSI is known and received
	identity matches the stored MME-identity bu	t not the stored SGSN-identity IUT sets PUA
	flag "freeze M-TMSI" and clears PUA flag "fr	eeze P-TMSI".
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a ULR-Flags AVP	
	with Node-Type-indicator bit set	
	sends a UL-Answer	
	on receipt of a PU-Request	
	containing an Origin-Host AVP	
	indicating stored MME-identity an	d 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	6
	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-Request checks if the IMSI is known and received	
	identity matches the stored SGSN-identity b	ut not the stored MME-identity IUT sets PUA
	flag "freeze P-TMSI" and clears PUA flag "fr	eeze M-TMSI".
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a ULR-Flags AVP	
	with Node-Type-indicator bit set	
	sends a UL-Answer	
	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	8
	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	A.2/1.1
Summary:	Verify that the IUT when receiving PU-Requi	est checks if the IMSI is known and received
	identity not matches the stored MME-identity	/ and not matches the stored SGSN-identity
	IUT clears PUA flags "freeze P-TMSI" and "f	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	3
	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

upports subscriber da	ata handling procedur	es; PICS A.5/4.
ι	apports subscriber da	apports subscriber data handling procedure

TP HSS ISD 01	Standards Reference:	PICS item:	
11_1100_102_01	Table 5.2.2.1.1/1 and 5.2.2.1.3¶2 and		
	7 2 9		
Summany	Varify that the ILIT app augages fully initiate a	D Request including all mandatory AV/Re	
Summary.			
	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_GRANT	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	In ID-Request including Access-Restriction-
	Data AVP within Subscription-Data AVP if th	e 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: Table 5.2.2.1.1/1 and 5.2.2.1.3¶3 and 7.2.9	PICS item:
Summary:	Verify that the IUT can successfully initiate a Data AVP within Subscription-Data AVP to r	an ID-Request including Access-Restriction- 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:	PICS item:
	Table 5.2.2.1.1/1 and 5.2.2.1.3¶4 and	
	7.2.9	
Summary:	Verify that the IUT can successfully initiate a	In ID-Request including APN-OI-
	has been added or modified	
	nas been added of modilied.	
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-OI-Replaceme	ent AVP
Comments:		

TP HSS ISD 05	Standards Reference:	PICS item:	
11_1100_100_00	Table 5.2.2.1.1/1 and 5.2.2.1.3 \P 5.6 and		
	7.2.0 and 7.2.24 and 7.2.25		
-	7.2.9 and 7.3.34 and 7.3.35		
Summary:	Verify that the IUT can successfully initiate a	In 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 AVP		
	containing an All-APN-Configurations-Included-Indicator AVP		
	containing an APN-Configuration AVP		
	containing a Context-Identifier AVP		
	containing a Context-restined AVI		
	containing a FDIN-Type AVP		
	containing a Service-Selection AVP		
	containing an EPS-Subsci	IDed-Q05 PTOTIle AVP	
	containing an AMBR AVP		
	not containing a Specific-A	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		
Summary:	Verify that the IUT can successfully initiate a	in ID-Request including a GPRS-	
	Subscription-Data AVP within Subscription-I	Data AVP if the GPRS-Subscription-Data-	
	Indicator information was previously receive	d as set in the ULR-Flags during update	
	location procedure.		
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request		
	containing a ULR-Flags AVP		
	with S6a-indicator bit set		
	with GPRS-Subscription-Data-Indicator bit set		
	with Node-Type-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 AV	P	
	containing a Context-Ident	ifier AVP	
	containing a PDP-Type A	/P	
	containing a QoS-Subscrit	bed AVP	
	containing a Geo Casedin	ation AVP	
Comments:	NOTE: TS as combined MME/SGSN con	nponent.	

	reachabi send co	lity status notification Is an ID-Request ontaining an empty Subscription-Data AVP
Comments:	NOTE:	Could be that at least some not related AVP should be present within Subscriber Data AVP and correction within TP if needed, will be done due to validation results.

		Standarda Deference:	DICC itom
IP_H35_I3D_00		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 it receives i	message from a service related entity
_	requestin	g EPS User State or EPS Location	Information than IUT successfully initiates
	an ID-Re	quest including empty Subscription	-Data AVP for the only purpose to request
	the MME User 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 Re	equest bit set
Comments:	NOTE:	Could be that at least some not re	elated AVP should be present within
		Subscriber Data AVP and correct validation results.	tion within TP if needed, will be done due to

TP_HSS_ISD_09	Standards Reference: Table 5.2.2.1.1/1 and 5.2.2.1.3¶15 and 7.2.9	PICS item:
Summary:	Verify that the IUT in case when it receives message from an AS requesting the current access network's support status of IMS Voice over PS Session than IUT successfully initiates an ID-Request including empty Subscription-Data AVP for the only purpose to retrieve IMS Voice over PS Session Supported 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: Could be that at least some no Subscriber Data AVP and corr validation results.	ot related AVP should be present within rection within TP if needed, will be done due to

4.2.2.5 Delete Subscriber Data

Test Selection:	IUT supports delete subscriber data procedures; PICS A.5/5.
1 000 000000000000000000000000000000000	

TP_HSS_DSD_01	Standards Reference: Table 5.2.2.2.1/1 and 5.2.2.2.3¶1 and 7 2 11	PICS item:
Summary:	Verify that the IUT can successfully initiate a to remove deleted subscription data from the	a DS-Request including all mandatory AVPs
Test purpose:	Ensure that the IUT to indicate a request to remove deleted sends a DS-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-Host AVP containing a Destination-Realm AVP containing a User-Name AVP containing a DSR-Flags AVP	subscription data from the MME /P NED
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	DS-Request to remove deleted GPRS	
	subscription data at the combined MME/SG	SN.	
Test purpose:	Ensure that the IUT		
	on receipt of a UL-Request		
	containing a ULR-Flags AVP		
	with S6a-indicator bit set		
	with Node-Type-indicator bit set		
	sends a UL-Answer		
	to indicate a request to remove deleted GPRS subscription data		
	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:	
0	Verify the state of UT and a susceptibility initiate of		
Summary:	Verify that the IUT can successfully initiate a	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-Profile-Withdrawal bit not set		
Comments:			

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 successfully processes a	II mandatory AVPs in an	
	AI-Request received due to Authentication In	nformation 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	Ϋ́Ρ	
	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 Visited-PLMIN-ID AVP	
	containing a Requested-EUTRAN-Au	ithentication-Info AVP	
	containing a Re-Synchronization-Info AVP		
	sends an Al-Answer		
	containing a Session-ID AVP		
	containing a Result-Code AVP		
	Indicating DIAMETER_SUCCES		
	containing an Auth-Session-State AV		
	Indicating NO_STATE_MAINTAIN	NED	
	containing an Origin-Host AVP		
0	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	
Summary:	Verify that the IUT successfully processes all mandatory AVPs in an AI-Request	
	received due to Authentication Information F	Retrieval Procedure.
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	with Node-Type-indicator bit set	
	sends a UL-Answer	
	on receipt of an Al-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	
	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	8
	containing an Auth-Session-State AV	Ϋ́Ρ
	indicating NO_STATE_MAINTAIN	NED
	containing an Origin-Host AVP	
	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-Request checks whether there is not any type of subscription for the IMSI and then the IUT returns AI-Answer with appropriate result	
	code.	
lest purpose:	Ensure that the IUT on receipt of an AI-Request containing a User-Name AVP indicating not known IMSI containing a Requested-EUTRAN-Au containing a Re-Synchronization- sends an AI-Answer not containing a Result-Code AVP containing an Experimental-Result AV containing an Experimental-Result AV containing an Experimental-Result AV	Ithentication-Info AVP Info AVP VP It-Code AVP
Comments:		

TP HSS AIR 04	Standards Reference:	PICS item:
11_1100_AIX_04	5 2 3 1 2 1 2 and 7 4 3	
	5.2.5.1.5¶5 anu 7.4.5	
Summary:	Verify that the IUT when receiving AI-Request checks whether subscriber has neither	
	EPS subscription nor GPRS subscription da	ta and then the IUT returns AI-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 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_ERRO	R_UNKNOWN_EPS_SUBSCRIPTION
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 checks whether subscriber has neither
	EPS subscription nor GPRS subscription da	ta and then the IUT returns AI-Answer with
	appropriate result code and Error-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_SUBSCRIBED	
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	st checks whether there is subscription for	
	the IMSI and in case when EUTRAN-Authentication-Info is requested the IUT returns AI-		
	Answer with KASME-AVP within E-UTRAN-Vector.		
Test purpose:	Ensure that the IUT		
	on receipt of an AI-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		
	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 returns
	AI-Answer with appropriate result code.	
Test purpose:	Ensure that the IUT	
	on receipt of an AI-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:	PICS item:	
Summary:	Verify that the IUT when receiving Al-Reque	st and in case if no corresponding pre-	
• • • • • • • • • • • • • • • • • • •	computed AV is available and the AuC is un	able to calculate any corresponding AVs due	
	to unknown failures, such as the internal dat	abase error, the IUT returns	
	Al-Answer with appropriate result code.		
Test purpose:	Ensure that the IUT		
	on receipt of an AI-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-Resu	It-Code AVP	
	indicating DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE		
Comments:	NOTE: No corresponding pre-computed	AV is available and the AuC is unable to	
	calculate any corresponding AVs	due to unknown failures, 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	st checks whether there is subscription for	
	the IMSI and in case when EUTRAN-Auther	tication-Info is requested the IUT returns	
	AI-Answer with E-UTRAN authentication veo	ctors.	
Test purpose:	Ensure that the IUT		
	on receipt of an AI-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	
Summary:	Verify that the IUT when receiving AI-Reque	st checks whether there is subscription for
	the IMSI and in case when UTRAN-GERAN	Authentication-Info is requested the IUI
	returns AI-Answer with UTRAN or GERAN a	uthentication vectors to combined
	MME/SGSN.	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	with Node-Type-indicator bit set	
	sends a UL-Answer	
	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 AV	P
	containing an UTRAN-Vector AV	^o or
	containing a GERAN-Vector AVP	
Comments:	NOTE: TS as combined MME/SGSN con	nponent.

TP_HSS_AIR_11	Standards Reference: 5.2.3.1.3¶1,10,13	PICS item: A.5/6.2
Summary:	Verify that the IUT when receiving AI-Request checks whether there is subscription for	
	IUT returns AI-Answer with less returned vectors than requested.	
Test purpose:	Ensure that the IUT on receipt of an AI-Request containing a User-Name AVP indicating known IMSI containing a Requested-EUTRAN-Au containing an Immediate-Respons sends an AI-Answer containing a Result-Code AVP indicating DIAMETER_SUCCESS containing an Authentication-Info AVI	Ithentication-Info AVP se-Preferred AVP
Commonto	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-Request checks whether there is subscription for		
	the IMSI and in case when Immediate-Resp	onse-Preferred parameter is requested and	
	Number-Of-Requested-Vectors AVP is pres	ent the IUT returns AI-Answer with less	
	returned vectors than requested.		
Test purpose:	Ensure that the IUT		
	on receipt of an AI-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 AVP		
	containing an E-UTRAN-Vector AVP		
Comments:			

TP_HSS_AIR_13	Standards Reference:	PICS item:
	5.2.3.1.3¶1,10,13	A.5/6.2
Summary:	Verify that the IUT when receiving AI-Request checks whether there is subscription for the IMSI and in case when UTRAN-GERAN-Authentication-Info and EUTRAN- Authentication-Info is requested and EUTRAN-Authentication-Info include the Immediate Response Preferred parameter the IUT returns AI-Answer with KASME including E-UTRAN authentication vectors to combined MME/SGSN.	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	with Node-Type-indicator bit set	
	senas a UL-Answer	
	on receipt of an Al-Request	
	indicating known IMSI	
	containing a Requested-EUTRAN-Authentication-Info AVP	
	containing an Immediate-Response-Preferred AVP	
	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	3
	containing an Authentication-Info AV	P
	containing an E-UTRAN-Vector A	VP
	containing a KASME AVP	
Comments:	NOTE 1: TS as combined MME/SGSN con	nponent.
	NOTE 2: Immediate-Response-Preferred A	VP within Requested-EUTRAN-
	Authentication-Info AVP.	

TP_HSS_AIR_14	Standards Reference:	PICS item:
	5.2.3.1.3¶1,10,13	A.5/6.2
Summary:	Verify that the IUT when receiving AI-Request checks whether there is subscription for the IMSI and in case when UTRAN-GERAN-Authentication-Info and EUTRAN- Authentication-Info is requested and UTRAN-GERAN-Authentication-Info include the Immediate Response Preferred parameter the IUT returns AI-Answer with GERAN or UTRAN authentication vectors to combined MME/SGSN.	
Test purpose:	Ensure that the IUT	
	on receipt of a UL-Request	
	containing a ULR-Flags AVP	
	with S6a-indicator bit set	
	with Node-Type-indicator bit set	
	sends a UL-Answer	
	on receipt of an Al-Request	
	containing a User-Name AVP	
	containing a Requested-FLITRANLAuthentication-Info AV/R	
	containing a Nequested-EOTRAN-Authentication-Into AVF	
	containing a Requested ITRANLGERANLAuthentication Info AVP	
	containing a Nequested of NAN-GENAN-Authentication-Into AVP	
	sends an Al-Answer	
	containing a Result-Code AVP	
	indicating DIAMETER SUCCESS	
	containing an Authentication-Info AV	D
	containing a UTRAN-Vector AVP	or
	containing a GERAN-Vector AVP	
Comments:	NOTE 1: TS as combined MME/SGSN con	nponent.
	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	st checks whether there is subscription for
	the IMSI and in case when EUTRAN-Auther	ntication-Info is requested and the
	Re-Synchronization-Info AVP is present the	IUT returns AI-Answer including
	authentication vectors to MME.	
Test purpose:	Ensure that the IUT	
	on receipt of an AI-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 AI-Request checks 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 returns AI-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-Authentication-Info AVP		
	containing a Re-Synchronization-Info AVP		
	containing a Requested-UTRAN-GEF	RAN-Authentication-Info AVP	
	containing a Re-Synchronization-	Info AVP	
	sends an Al-Answer		
	containing a Result-Code AVP		
	indicating DIAMETER_UNABLE_TO_COMPLY		
	not containing an Authentication-Info	AVP	
Comments:			

TP_HSS_AIR_17	Standards Reference:	PICS item:	
	5.2.3.1.3¶1,12		
Summary:	Verify that the IUT when receiving AI-Request checks whether there is subscription for		
	the IMSI and in case when more than one EPS or UTRAN or GERAN Vector is to be		
	included within one Authorization-Info AVP t	he IUT returns AI-Answer with appropriate	
	result code and the Item-Number 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 A	VP for each Vector	
Comments:	NOTE: More than one EPS Vector to be included in one Authentication-Info AVP.		

TP_HSS_AIR_18	Standards R	eference:	PICS item:
	5.2.3.1.3	¶1,12	
Summary:	Verify that the IUT when receiving AI-Request checks whether there is subscription for		
	the IMSI and in case when more than one EPS or UTRAN or GERAN Vector is to be		
	included within one Aut	horization-Info AVP t	he IUT returns AI-Answer with appropriate
	result code and the Item-Number 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: More than or	ne UTRAN or GERAN	Vector to be included in one
	Authenticatio	on-Info AVP.	

Test Selection: IU	UT supports Reset r	procedures; PICS A.5/7.
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TP_HSS_RES_01	Standards Reference: Table 5.2.4.1.1/1 and 5.2.4.1.3 and 7.2.15	PICS item:
Summary:	Verify that the IUT can successfully initiate a to indicate to all relevant MMEs and combin	an RS-Request including all mandatory AVPs ed MME/SGSNs that IUT 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	
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 successfully processes a	II mandatory AVPs in an	
	NO-Request received due to Notification Pro	ocedure.	
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_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		
	sends an NO-Answer		
	containing a Session-ID AVP		
	containing a Result-Code AVP		
	indicating DIAMETER_SUCCESS	6	
	containing an Auth-Session-State AV	Ϋ́Ρ	
	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-Request checks whether the IMSI is known		
	and if not then the IUT returns NO-Answer w	vith appropriate result code.	
Test purpose:	Ensure that the IUT		
	on receipt of an NO-Request		
	containing a User-Name AVP		
	indicating not known IMSI		
	sends an NO-Answer		
	not containing a Result-Code AVP		
	containing an Experimental-Result A	VP	
	containing an Experimental-Resu	It-Code AVP	
	indicating DIAMETER_ERRO	R_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-Request checks whether the IMSI is known		
	and source MME originating is not currently registered within IUT for that UE then the		
	IUT returns NO-Answer with appropriate res	ult code.	
Test purpose:	Ensure that the IUT		
	on receipt of an NO-Request		
	containing a User-Name AVP		
	indicating known IMSI		
	sends an NO-Answer		
	not containing a Result-Code AVP		
	containing an Experimental-Result A	VP	
	containing an Experimental-Resu	It-Code AVP	
	indicating DIAMETER_ERRO	R_UNKNOWN_SERVING_NODE	
Comments:			

History

Document history		
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45