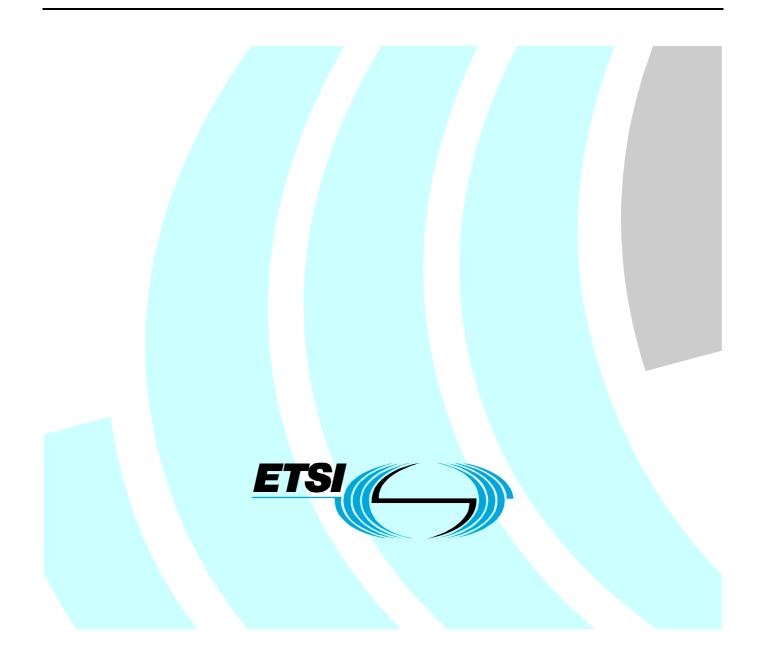
ETSI TS 102 891-2 V3.2.1 (2011-08)

Technical Specification

Technical Committee for IMS Network Testing (INT); Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Part 2: Test Suite Structure and Test Purposes (TSS&TP)



Reference RTS/INT-00056-2

Keywords

MWI, SIP, testing, TSS&TP

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Foreword

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

The present document is part 2 of a multi-part deliverable covering the test specification for Message Waiting Indication (MWI), as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS)";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP)";

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

1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) of the Message Waiting Indication (MWI) service, based on 3GPP stage three Protocol Description of the (MWI) service, based on stage one and two of the ISDN MWI supplementary services.

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.

[1]	ETSI TS 124 606 (V8.2.0): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Message Waiting Indication (MWI)using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification (3GPP TS 24.606 version 8.2.0 Release 8)".
[2]	ETSI TS 102 891-1: "Technical Committee for IMS Network Testing (INT); Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Part 1: Protocol Implementation Conformance Statement (PICS)".
[3]	IETF RFC 3842: "A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP)".
[4]	IETF RFC 3265: "Session Initiation Protocol (SIP)-Specific Event Notification".
[5]	ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

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.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 124 606 [1] and the following apply:

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [5].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [5].

PICS proforma: Refer to ISO/IEC 9646-1 [5].

point of control and observation: Refer to ISO/IEC 9646-1 [5].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [5].

System Under Test (SUT): Refer to ISO/IEC 9646-1 [5].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [5].

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TS 124 606 [1] and the following apply:

ATM	Abstract Test Method
ATS	Abstract Test Suite
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
SUT	System Under Test
TP	Test Purpose
TSS	Test Suite Structure
TSS&TP	Test Suite Structure and Test Purposes

4 Test Suite Structure (TSS)

UserEquipment			
		MWI_U01_xxx	
Network			
	AS ServedUser	OIP N01 xxx	

4.1 Configuration

The scope of the present document is to test the signalling and procedural aspects of the stage 3 requirements as described in [1]. The stage 3 description respects the requirements to several network entities and also to requirements regarding to end devices. Therefore several interfaces (reference points) are addressed to satisfy the test of the different entities.

Therefore to test the appropriate entities the configurations below are applicable:

Testing of the Application Server. This entity is responsible to perform the service. Hence the ISC interface is the appropriate access point. Figure 1 points to this.

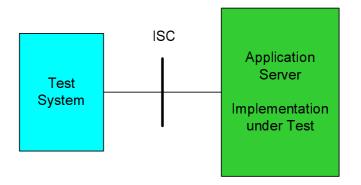


Figure 1: Applicable interface to test AS functionalities

If the ISC interface is not accessible it is also applicable to perform the test of the AS using any NNI (Mw, Mg, Mx) interface (consider figure 2). In case only the Gm interface is accessible this shall be used instead. In this case, be aware that the verification of several requirements is impeded.

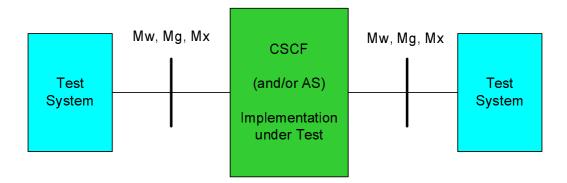


Figure 2: Applicable interfaces to test using the (generic) NNI interface

Figure 3 illustrates the usage of any NNI interface.

Testing of User Equipment. There are several requirements regarding to the end devices. Therefore a special configuration appears.

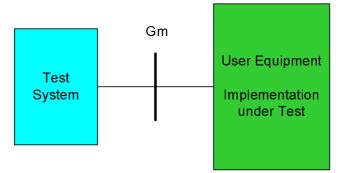


Figure 3: Applicable configuration to test the User Equipment

5 Test Purposes (TP)

5.1 Introduction

For each requirement in TS 124 606 [1] a TP is defined.

5.1.1 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 1).

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<ss></ss>	=	supplementary service:	e.g. "MWI"	
<iut></iut>	=	type of IUT:	U N	User - equipment Network
<group></group>	=	group	2 digit field re	epresenting group reference according to TSS
<nnn></nnn>	=	3 digit sequential number	(001-999)	

5.1.2 Test strategy

As the base standard TS 124 606 [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 102 891-1 [2]. The criteria applied include the following:

• whether or not a test case can be built from the TP is not considered.

5.1.3 Reference column "MWI reference"

The column "MWI reference" makes reference to TS 124 606 [1], except where explicitly stated otherwise.

5.2 Invocation and operation

5.2.1 Actions at the UE

TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_001	4.7.2.1	PICS 2/1
Test purpose:		·	
Initial subscription for a public user identity ι	using the public servi	ce identity	
Ensure that the user equipment is able to su			
ine contains the public service identity of the			summary, the Expires header
s set to a proper value, Accept header is se			
SIP header: SUBSCRIBE sip: public serv		SIP/2.0	
Event: message-summary Expires: 			
Accept: application/simple	-message-summary		
Comments:	-message-summary		
User Equipment		Tes	st Equipment
• •	→	SUBSCRIBE	•••
	+	200 OK (SUBSCRIB	E)
		X	
TSS	TP	MWI reference	Selection expression
JserEquipment	MWI_U01_002	4.7.2.1	PICS 2/2
Test purpose:			
Initial subscription for a public user identity u	using the public user	identity	
Ensure that the user equipment is able to su	ubscribe to the MWI s		message is sent. The Reques
ine contains the public user identity of the s			
neader is set to a proper value, Accept head	der is set to 'application	on/simple-message-sum	
neader is set to a proper value, Accept head SIP header: SUBSCRIBE sip: public user	der is set to 'application' identity@server SI	on/simple-message-sum	
header is set to a proper value, Accept head SIP header: SUBSCRIBE sip: public user Event: message-summary	der is set to 'application' identity@server SI	on/simple-message-sum	
header is set to a proper value, Accept head SIP header: SUBSCRIBE sip: public user	der is set to 'application' r identity @server Sli /	on/simple-message-sum	
header is set to a proper value, Accept head SIP header: SUBSCRIBE sip: public user Event: message-summary Expires: Accept: application/simple	der is set to 'application' r identity @server Sli /	on/simple-message-sum	
header is set to a proper value, Accept head SIP header: SUBSCRIBE sip: public user Event: message-summary Expires: 	der is set to 'application' r identity @server Sli /	on/simple-message-sum P/2.0 Tes	
header is set to a proper value, Accept head SIP header: SUBSCRIBE sip: public user Event: message-summary Expires: Accept: application/simple Comments:	der is set to 'application' r identity @server Sli /	on/simple-message-sum P/2.0	st Equipment

TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_003	4.7.2.1,	-
		RFC 3842 [3] 3.6	
Test purpose:			
Re-Subscription before subscription is ex	pired		
Ensure that the user equipment is able to			
SUBSCRIBE message is sent. The Event			
value, Accept header is set to 'application subscription.	simple-message-sum	hary. The Call-ID is equal to	o the Call-ID of the Initial
SUBSCRIBE			
Event: message-summary			
Expires: 500			
Accept: application/simple-	message-summary		
Comments:	message summary		
User Equipment		Test E	quipment
	→	SUBSCRIBE	
	+	200 OK (SUBSCRIBE)	
	Before subscriptic		
	→	SUBSCRIBE	
	+	200 OK (SUBSCRIBE)	
TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_004	4.7.2.1,	
		RFC 3842 [3] 3.6	
Test purpose:			
Subscription after re-subscription fails			
Ensure that the user equipment is able to	aubaariba ta tha MM//	onvigo ofter a re subscriptic	n foiled A SURSCRIPE
Ensure that the user equipment is able to message is sent. The Event header is set			
header is set to 'application/simple-messa		, the Expires header is set	to a proper value, Accept
SIP header: SUBSCRIBE 1	ige-summary.		
Event: message-summa	arv		
Expires: 500	ary		
Accept: application/sim	ole-message-summarv		
SUBSCRIBE 2	sie meeerge euminaly		
Call-ID: <different from<="" td=""><td>Call-ID of SUBCRIBE 1</td><td>></td><td></td></different>	Call-ID of SUBCRIBE 1	>	
Event: message-summa			
Event. message-summa Expires: 500			
	-		
Expires: 500 Accept: application/simp Comments:	-		
Expires: 500 Accept: application/sim	-	Test E	quipment
Expires: 500 Accept: application/simp Comments:	-	Test E SUBSCRIBE	quipment
Expires: 500 Accept: application/simp Comments:	ble-message-summary → ←	SUBSCRIBE 200 OK (SUBSCRIBE)	quipment
Expires: 500 Accept: application/simp Comments:	ble-message-summary → ← Before subscriptio	SUBSCRIBE 200 OK (SUBSCRIBE) on expires	quipment
Expires: 500 Accept: application/simp Comments:	ble-message-summary → ← Before subscriptic →	SUBSCRIBE 200 OK (SUBSCRIBE) on expires SUBSCRIBE 1	quipment
Expires: 500 Accept: application/simp Comments:	ble-message-summary → ← Before subscriptio	SUBSCRIBE 200 OK (SUBSCRIBE) on expires	quipment
Expires: 500 Accept: application/simp Comments:	ble-message-summary → ← Before subscriptio → ←	SUBSCRIBE 200 OK (SUBSCRIBE) on expires SUBSCRIBE 1 500	quipment
Expires: 500 Accept: application/simp Comments:	ble-message-summary → ← Before subscriptic →	SUBSCRIBE 200 OK (SUBSCRIBE) on expires SUBSCRIBE 1	quipment

TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_005	4.7.2.1,	•
		RFC 3265 [4] 3.1.4.3	
Test purpose:	·		
Unsubscribe from MWI service			
Ensure that the user equipment is able to Event header is set to 'message-summary'. SIP header: SUBSCRIBE2 Event: message-summ Expires: 0 Accept: application/sir	ary', the Expires header i The Call-ID is equal to the call-ID is equal to the second se	s set to zero, Accept heade he Call-ID of the initial subs	er is set to
Comments:	npie-message-summary		
User Equipment		Test E	Equipment
	→	SUBSCRIBE1	
	+	200 OK (SUBSCRIBE)	
	→	SUBSCRIBE2	
	+	200 OK (SUBSCRIBE)	

TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_006	4.7.2.1,	
		RFC 3842 [3] 3.9	
Test purpose:			
Reception of status information after subsci	ription		
Upon receipt of a valid NOTIFY request after	er subscription, the us	ser equipment accepts th	e information and sends a
200 OK response.			
SIP header: NOTIFY			
Event: message-summary	y		
Subscription-State: active			
Content-Type: application	/simple-message-su	mmary	
Messages-Waiting: yes			
Message-Account: sip:se	rved_user@Server		
Voice-Message: 4/1 (2/0)			
Video-Message: 3/1 (1/0)			
Fax-Message: 2/1 (0/1)			
Comments:			
User Equipment		Tes	t Equipment
	→	SUBSCRIBE	
	+	200 OK (SUBSCRIBE	E)
Status information indicate to the user	+	NOTIFY	

TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_007	4.7.2.1,	•
		RFC 3842 [3] 3.9	
Test purpose:			
Reception of subsequent status informa	tion after state change		
Upon receipt of a valid NOTIFY request		deposited messages, the	user equipment accepts the
information and sends a 200 OK respon	se.		
SIP header: NOTIFY 1			
Event: message-sumr			
Subscription-State: ac			
Content-Type: applica	tion/simple-message-su	mmary	
Messages-Waiting: ye	S		
	served_user@Server		
Voice-Message: 4/1 (2			
Video-Message: 3/1 (
Fax-Message: 2/1 (0/1			
NOTIFY 2			
-	2011		
Event: message-sumr			
Subscription-State: ac			
Content-Type: applica	tion/simple-message-su	mmary	
Messages-Waiting: ye	S		
Message-Account: sip	:served_user@Server		
Voice-Message: 5/1 (2	2/0)		
Video-Message: 3/1 (1	1/0)		
Fax-Message: 2/1 (0/1)		
Comments:		-	· Fauliament
User Equipment	.`		t Equipment
	→ ←	SUBSCRIBE	->
	4	200 OK (SUBSCRIBE	-)
Status information indicate to the use	er 🗲	NOTIFY 1	
	→	200 OK (NOTIFY)	
	New voice message in		
Status information indicate to the use	er 🗲	NOTIFY 2	
	→	200 OK (NOTIFY)	

5.2.2 Actions at the AS

TSS	ТР	MWI reference	Selection expression
Network/AS_ServedUser	MWI_ N01_001	4.7.2.5,	Selection expression
		RFC 3842 [3] 3.4,	
		RFC 3265 [4]	
		3.1.4.1, 3.1.6.2	
Test purpose:		0, 0	
Subscription to the message waiting service, all rele	vant headers prese	ent	
Verify that the SUBSCRIBE request will be accepted	d with following Sub	scribe-specific headers	. Event Evnires and
Accept. The 200 OK (SUBSCRIBE) contains the Ex			
service. A NOTIFY is sent immediately the actual st			
the NOTIFY are equal to the values in the SUBSCR			
SIP header: SUBSCRIBE			
Event: message-summary			
Expires: 7200			
Accept: application/simple-messag	be-summarv		
NOTIFY	g		
Preconditions: An arrangement exists with the serv	vice provider to deli	ver state changes	
Comments:			
ISC		S	UT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	+		
200 OK (NOTIFY)	→		
TSS	ТР	MWI reference	Selection expression
Network/AS_ServedUser	MWI_N01_002	4.7.2.5,	Selection expression
Network/AS_ServedOser	101001_002	RFC 3265 [4]	
		3.1.4.3	
Test purpose:		0.1.1.0	
The user is able to unsubscribe the service			
Verify that the SUBSCRIBE request will be accepted	d with Expires head	ler with value zero; Che	ck that the 2xx response
to the unsubscription contains also an Expires head			•
SIP header: SUBSCRIBE			
Event: message-summary			
Expires: 0			
Accept: application/simple-message	ge-summary		
200 OK (SUBCRIBE)			
Expires: 0			
NOTIFY			
Event: message-summary			
Subscription-State: terminated(; re			
Preconditions: An arrangement exists with the serv	vice provider to deli	ver state changes	
Comments:		-	
ISC		S	UT
	→		
SUBSCRIBE 200 OK (SUBSCRIBE)	→ ←		
200 OK (SUBSCRIBE)	+		

TSS	ТР	MWI reference	Selection expression
Network/AS_ServedUser	MWI_N01_003	4.7.2.5, RFC 3265 [4] 3.1.6.2	
Test purpose:			
Refresh of current subscription.			
Verify that a SUBSCRIBE request wil header tag and the Call-ID in the subs A NOTIFY is sent.			
SIP header: SUBSCRIBE 1			
To-header with tag=			
CallId=callId_value	l		
SUBSCRIBE 2			
To-header with tag			
CallId=_callId_value Preconditions: An arrangement exis		liver state changes	
Comments:		inver state changes	
ISC			SUT
SUBSCRIBE 1	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	÷		
NOTIFY	+		
200 OK (NOTIFY)	→		
	Refreshing of Subscrip	tion	
SUBSCRIBE 2	→		
200 OK (SUBSCRIBE) CASE B	÷		
202 Accepted	+		
NOTIFY	+		
200 OK (NOTIFY)	÷		

TSS	TP	MWI reference	Selection expression
Network/AS ServedUser	MWI N01 004	4.7.2.5,	
—		RFC 3265 [4]	
		3.1.4.2	
Test purpose:			
Unsuccessful refresh of subscription			
Verify that a SUBSCRIBE request will be	e rejected with a "481 Call/Trai	nsaction Does Not Exi	st" response after expiry of
the subscription when the subsequent S	UBSCRIBE request uses the s	same dialog (From tag	, CallId) as the actual
expired subscription.			
SIP header: SUBSCRIBE 1			
To-header with tag=ta	g_value1		
CallId=_callId_value1			
SUBSCRIBE 2			
To-header with tag=ta	g_value1		
CallId=callId_value1			
Preconditions: An arrangement exists	with the service provider to del	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE 1	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	←		
200 OK (NOTIFY)	→		
	Subscription time expi	red	
SUBSCRIBE 2	→		
481 Call/Transaction Does Not Exist	+		

TSS	TP	MWI reference	Selection expression
Network/AS_ServedUser	MWI_N01_005	4.7.2.5,	
		RFC 3265 [4] 3.2.2	
Test purpose:			
NOTIFY request after initial subscription			
Verify that after a successfully subscription a N			
value "active" and an "expires" parameter whi			ion. The From header tag
and the Call-ID in the NOTIFY are equal to the	e values in the SUBSCRI	BE.	
The NOTIFY includes:			
 Event header set to message-summary Subscription State header set to active (a) 		an aat ta tha timaa namai	ning og the gylperiotics
 Subscription-State header set to active (o Content-Type header set to application/si 			ning on the subscription
MIME body:	mple-message-summary		
 Messages-Waiting: yes 			
 Message-Account: identifying the served 	user (optional)		
 msg-summary-line(s) (optional) 			
SIP header: SUBSCRIBE			
Event: message-summary			
Expires: 7200			
Accept: application/simple-m	nessage-summary		
NOTIFY			
Event: message-summary			
Subscription-State: active; e			
Content-Type: application/si Messages-Waiting: yes	mple-message-summary		
Messages-Waiting. yes			
Preconditions: An arrangement exists with th	e service provider to deli	iver state changes	
Comments:			
ISC		:	SUT
SUBSCRIBE	→		
CASE A	_		
200 OK (SUBSCRIBE)	+		
CASE B			
	Z		
202 Accepted	÷		
	+ +		

TSS	TP	MWI reference	Selection expression
Network/AS_ServedUser	MWI_N01_006	4.7.2.5,	
		RFC 3265 [4] 3.2.2	
Test purpose:			
Subscription terminates after 481 respons	e to NOTIFY request		
Verify that a non-200 response (e. g. 481)	after a received NOTIFY req	uest will remove the co	rresponding subscription;
Check that no further NOTIFY responses	will be received.		
SIP header: SUBSCRIBE			
Event: message-summa	ry		
Expires: 7200			
Accept: application/simp			
Preconditions: An arrangement exists with	th the service provider to deli	ver state changes	
Comments:			
ISC		5	SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B	_		
202 Accepted	+		
NOTIFY	+		
481 Call/Transaction Does Not Exist	→		
Action ca	uses in a message summa No subsequent NOTIFY is		

TSS	ТР	MWI reference	Selection expression
letwork/AS_ServedUser	MWI_N01_007	4.7.2.5,	
		RFC 3842 [3] 3.5,	
		5.2	
est purpose:			· · · · · · · · · · · · · · · · · · ·
Message indicated in the NOTIFY reque	est after initial subscription.		
/erify that after a successfully subscript	ion, when a message is waiting	, a NOTIFY request is	s sent with a body
containing a message summary indicati	ng "Messages-Waiting: yes".		
SIP header: SUBSCRIBE			
Event: message-sumr	nary		
Expires: 7200			
	nple-message-summary		
NOTIFY			
Event: message-sumr			
	tive; expires= 		
	tion/simple-message-summary	,	
Messages-Waiting: ye			
Preconditions: An arrangement exists	with the service provider to deli	iver state changes	
Comments:			
SC			SUT
SUBSCRIBE	→		
200 OK (SUBSCRIBE) CASE B	÷		
	+		
202 Accepted	4		
NOTIFY	+		
200 OK (NOTIFY)	→		
rss	TP	MWI reference	Selection expression
Network/AS_ServedUser	MWI_N01_008	4.7.2.5,	PICS 3/1
		RFC 3842 [3] 3.5,	1100 3/1
		5.2	
lest purpose:	I	10.2	L
Message indicated in the NOTIFY reque	est after initial subscription, msg	g-account present	
erify that after a successfully subscript			
containing a message summary indicati	ng "Messages-Waiting: yes" an	id containing an "msg-	account" line.

containing a message summar	y indicating "Messages-Waiting: yes" and containing an	"msg-account" line.
SIP header: SUBSCRIBE		
Event: messa	age-summary	
Expires: 720	C	
Accept: appli	cation/simple-message-summary	
NOTIFY		
Event: messa	age-summary	
Subscription	State: active	
Content-Type	e: application/simple-message-summary	
Messages-W	aiting: yes	
Message-Ac	count: sip: <uri mwi="" of="" served="" user=""></uri>	
Preconditions: An arrangeme	nt exists with the service provider to deliver state chang	jes
Comments:		
ISC		SUT
SUBSCRIBE	→	
CASE A		
200 OK (SUBSCRIBE)	+	
CASE B		
202 Accepted	←	
NOTIFY	←	
200 OK (NOTIFY)	→	

TSS	TP	MWI reference	Selection expression
Network/AS_ServedUser	MWI_N01_009	4.7.2.5,	PICS 3/2
		RFC 3842 [3] 3.5,	
		5.2	
Test purpose:			
Message indicated in the NOTIFY reque	st after initial subscription, ms	g-summary-line preser	nt
Verify that after a successfully subscription			
containing a message summary indicatin	ig "Messages-Waiting: yes" ar	nd containing an "msg-	summary-line" line.
SIP header: SUBSCRIBE			
Event: message-summ	ary		
Expires: 7200			
1 11	ple-message-summary		
NOTIFY			
Event: message-summ	2		
Subscription-State: act			
	ion/simple-message-summary	/	
Messages-Waiting: yes			
	id value> / (<a< td=""><td></td><td>l value>)</td></a<>		l value>)
Preconditions: An arrangement exists v			
Comments: The "new-urgentmsgs SLAS	SH old-urgentmsgs" is optiona	l	
SC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	+		
200 OK (NOTIFY)	→		

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TSS	ТР	MIA/I reference	Coloction oversocian
Network/AS_ServedUser	MWI_N01_010	MWI reference 4.7.2.5,	Selection expression
Network/AS_ServedOser		4.7.2.5, RFC 3842 [3] 3.5,	
		5.2	
Test purpose:		0.2	
NOTIFY indicates state change due to	a message after successful sub	oscription	
Verify that after a successfully subscrip			
NOTIFY request is sent with a body co			
change in the subscribed state occurs,		eceived at the Messa	ge account. The From
header tag and the Call-ID in the two N	OTIFY requests are equal.		
SIP header: SUBSCRIBE			
Event: message-sum	mary		
Expires: 7200			
NOTIFY 1	mple-message-summary		
Event: message-sum	many		
	ctive; expires= 		
	ation/simple-message-summary	,	
NOTIFY 2			
Event: message-sum	marv		
	ctive; expires= 		
Content-Type: applic	ation/simple-message-summary	,	
Messages-Waiting: y			
Preconditions: An arrangement exists	with the service provider to deli	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASE A	_		
200 OK (SUBSCRIBE)	÷		
CASE B	←		
202 Accepted	T		
NOTIFY 1	(
200 OK (NOTIFY)	× →		
	causes in a message summa	rv state change	
NOTIFY 2	←	,	
200 OK (NOTIFY)	→		

TSS Network/AS_ServedUser	TP MWI_N01_011	MWI reference 4.7.2.5, RFC 3842 [3] 3.5, 5.2	Selection expression PICS 3/3
Test purpose: NOTIFY indicates state change due to a mess	age after successful sub	oscription, opt-msg-hea	ders are present
Verify that after a successfully subscription a NOTIFY request is sent with a body containing opt-msg-headers that describe newly added m message has been received at the Message a requests are equal.	g a message summary in nessage(s) when a chang	dicating "Messages-W ge in the subscribed st	aiting: yes" and containing ate occurs, e.g. a new
SIP header: SUBSCRIBE			
Event: message-summary Expires: 7200			
Accept: application/simple-m	essage-summary		
Event: message-summary Subscription-State: active			
Content-Type: application/sin Messages-Waiting: yes NOTIFY 2	mple-message-summary	,	
Event: message-summary			
Subscription-State: active			
Content-Type: application/sin Messages-Waiting: yes	mple-message-summary	,	
To: <user1_public1@home1 From: <user3_public1@hom Message-ID: </user3_public1@hom </user1_public1@home1 	le1.net> ⊳>		
Message-Context: voice-me Preconditions: An arrangement exists with th		iver state changes	
Comments: Any set of opt-msg-headers is			ves only as an example
ISC	·		SUT
SUBSCRIBE	→		
CASE A 200 OK (SUBSCRIBE)	4		
CASE B	V		
202 Accepted	←		
NOTIFY 1	÷		
200 OK (NOTIFY)	→		
	s in a message summa	iry state change	
NOTIFY 2	←		

TSS	TP	MWI reference	Selection expression
Network/AS_ServedUser	MWI_N03_012	4.7.2.5,	• • • • •
_		RFC 3842 [3]	
		3.1.4.2	
Test purpose:		•	
Refresh of subscription in a new dialog	gue		
Verify that at any time before a subscr			
SUBSCRIBE request on a different dia			
header tag and the Call-ID in the SUB	CRIBE 1 are unequal to the value	es in the SUBSCRIB	= 2.
SIP header: SUBSCRIBE 1			
Event: message-sur	nmary		
Expires: 7200			
	simple-message-summary		
SUBSCRIBE 2			
Event: message-sur	nmary		
Expires: 7200			
	simple-message-summary		
Preconditions: An arrangement exist	s with the service provider to deli	iver state changes	
Comments:			0.17
			SUT
SUBSCRIBE 1 CASE A	→		
	(
200 OK (SUBSCRIBE) CASE B	C		
	←		
202 Accepted	F		
NOTIFY	+		
200 OK (NOTIFY)	→		
	Refreshing of Subscript	tion	
SUBSCRIBE 2	→ ·		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	←		
200 OK (NOTIFY)	→		

6 Compliance

An ATS which complies with the present document shall:

- a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 5;
- b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 4;
- c) use the same naming conventions for the test groups and test cases;
- d) maintain the relationship specified in clause 5 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection.

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 5 shall be included in a compliant ATS.

History

	Document history		
V3.1.1	July 2010	Publication	
V3.2.1	August 2011	Publication	

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