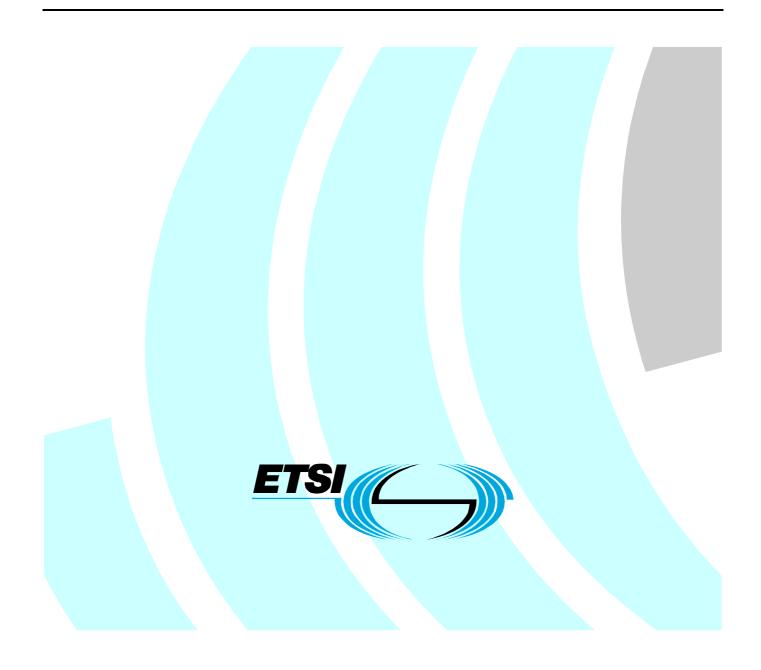
ETSI TS 102 891-2 V3.1.1 (2010-07)

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 DTS/INT-00023-2

Keywords MWI, SIP, testing, TSS&TP

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Foreword

This Technical Specification (TS) has been produced by 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)";

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Part 2: "Test Suite Structure and Test Purposes (TSS&TP)";
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Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT)".

Introduction

The present document has been produced by ETSI Technical Committee IMS Network Testing (INT). To evaluate conformance of a particular implementation, it is necessary to have test purposes as a basis to perform conformance tests selected upon the answers requested in the PICS.

1 Scope

The present document specifies the Test Suite Structure and Test Purposes of the Message Waiting Indication (MWI) service, based on 3GPP stage three Protocol Description of the Message Waiting Indication (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.

[]]	ETSI TS 124 406 (2008): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); TISPAN; PSTN/ISDN simulation services; Message Waiting Indication (MWI): Protocol specification (3GPP TS 24.406 Release 8)".
[2	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	3]	IETF RFC 3842: "A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP)".
[4	1]	IETF RFC 2543: "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 124 406 [1] and the following apply:

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

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

test equipment: combination of equipment and procedures that can perform: the derivation of test cases, the selection of test cases, the parameterization of test cases, the execution of test cases; and the production of a conformance log

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

User Equipment (UE): allows a user access to network services

NOTE: For the purpose of 3GPP specifications the interface between the UE and the network is the radio interface. A User Equipment can be subdivided into a number of domains, the domains being separated by reference points. Currently the User Equipment is subdivided into the UICC domain and the ME Domain. The ME Domain can further be subdivided into one or more Mobile Termination (MT) and Terminal Equipment (TE) components showing the connectivity between multiple functional groups.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TS 124 406 [1] and the following apply:

AS	Application Server
CDIV	Communication DIVersion services
CFB	Communication Forwarding Busy
CFU	Communication Forwarding Unconditional
ISC	IP Multimedia Subsystem Service Control
IUT	Implementation Under Test
MWI	Message Waiting Indication
NNI	Network - Network Interface
S-CSCF	Serving Call Session Control Function
SUT	System Under Test
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure (TSS)

UserEquipment		
		MWI_U01_xxx
Network		
	ServingS-CSCF	OIP_N01_xxx
	AS_ServedUser	OIP_N03_xxx

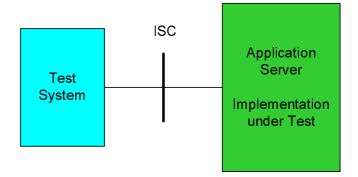
Interaction		
	CallDiversionService	OIP_N04_xxx

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.





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.

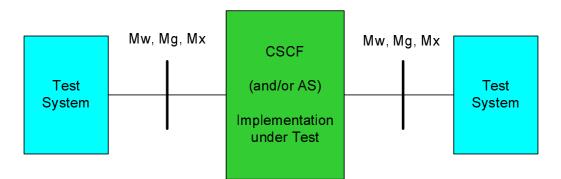


Figure 2: Applicable interfaces to test using the (generic) NNI interface

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.

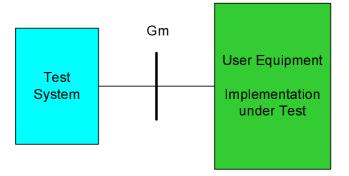


Figure 3: Applicable configuration to test the User Equipment

5 Test Purposes (TP)

5.1 Introduction

For each requirement in [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).

Table 1: TP identifier naming convention schem	me
--	----

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

5.1.2 Test strategy

As the base standard TS 124 406 [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 124 406 [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 1.2/1			
Test purpose:			· · · · ·			
Initial subscription for a public user identity using the public service identity						
Ensure that the user equipment is able to subscribe to the MWI service. A SUBSCRIBE message is sent. The Request line contains the public service identity of the MWI service. The Event header is set to 'message-summary', the Expires						
header is set to a proper value, Accept header is set to 'application/simple-message-summary'.						
SIP header: SUBSCRIBE sip: public service identity@server SIP/2.0						
Event: message-summary						
Expires: 						
Accept: application/simple-	message-summary					
Comments:						
User Equipment Test Equipment						
→ SUBSCRIBE						
← 200 OK (SUBSCRIBE)						

TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_002	4.7.2.1	PICS 1.2/2
Test purpose:			
Initial subscription for a public user iden	tity using the public user	identity	
Ensure that the user equipment is able t			
ine contains the public user identity of the			
header is set to a proper value, Accept h			mary'.
SIP header: SUBSCRIBE sip: public u		P/2.0	
Event: message-sumn			
Expires: <a td="" valid="" value<=""><td></td><td></td><td></td>			
	nple-message-summary		
Comments:		_	
User Equipment	、		t Equipment
	→ ←	SUBSCRIBE	-,
	–	200 OK (SUBSCRIBI	=)
TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_003	4.7.2.1	
Test purpose:			
Re-Subscription before subscription is e	expired		
······································	xpiica		
		nt subscription before the	e subscription expires. A
Ensure that the user equipment is able t	o re-subscribe the curre		
Ensure that the user equipment is able t SUBSCRIBE message is sent. The Eve	o re-subscribe the current the current the current to be a cur	age-summary', the Expir	es header is set to a proper
Ensure that the user equipment is able t SUBSCRIBE message is sent. The Even value, Accept header is set to 'application	o re-subscribe the current the current the current to be a cur	age-summary', the Expir	es header is set to a proper
Ensure that the user equipment is able t SUBSCRIBE message is sent. The Even value, Accept header is set to 'applications subscription.	o re-subscribe the current the current the current to be a cur	age-summary', the Expir	es header is set to a proper
Ensure that the user equipment is able t SUBSCRIBE message is sent. The Even value, Accept header is set to 'applications subscription.	to re-subscribe the current nt header is set to 'mess on/simple-message-sumr	age-summary', the Expir	es header is set to a proper
Ensure that the user equipment is able t SUBSCRIBE message is sent. The Even value, Accept header is set to 'application subscription. SIP header: SUBSCRIBE Event: message-summary Expires: 500	o re-subscribe the curren nt header is set to 'mess on/simple-message-sumr	age-summary', the Expir	es header is set to a proper
Ensure that the user equipment is able t SUBSCRIBE message is sent. The Even value, Accept header is set to 'application subscription. SIP header: SUBSCRIBE Event: message-summary	o re-subscribe the curren nt header is set to 'mess on/simple-message-sumr	age-summary', the Expir	es header is set to a proper
Ensure that the user equipment is able to SUBSCRIBE message is sent. The Event value, Accept header is set to 'application subscription. SIP header: SUBSCRIBE Event: message-summary Expires: 500 Accept: application/simple	o re-subscribe the curren nt header is set to 'mess on/simple-message-sumr	age-summary', the Expir	es header is set to a proper
Ensure that the user equipment is able t SUBSCRIBE message is sent. The Even value, Accept header is set to 'application subscription. SIP header: SUBSCRIBE Event: message-summary Expires: 500 Accept: application/simple	o re-subscribe the curren nt header is set to 'mess on/simple-message-sumr	age-summary', the Expir nary'. The Call-ID is equ	es header is set to a proper
Ensure that the user equipment is able t SUBSCRIBE message is sent. The Even value, Accept header is set to 'application subscription. SIP header: SUBSCRIBE Event: message-summary Expires: 500 Accept: application/simple	o re-subscribe the curren nt header is set to 'mess on/simple-message-sumr	age-summary', the Expir nary'. The Call-ID is equ Tes SUBSCRIBE	es header is set to a proper al to the Call-ID of the initial t Equipment
Ensure that the user equipment is able to SUBSCRIBE message is sent. The Event value, Accept header is set to 'application subscription. SIP header: SUBSCRIBE Event: message-summary Expires: 500 Accept: application/simple	to re-subscribe the current nt header is set to 'mess on/simple-message-sumr y e-message-summary → ←	age-summary', the Expir nary'. The Call-ID is equ Tes SUBSCRIBE 200 OK (SUBSCRIBI	es header is set to a proper al to the Call-ID of the initial t Equipment
Ensure that the user equipment is able to SUBSCRIBE message is sent. The Event value, Accept header is set to 'application subscription. SIP header: SUBSCRIBE Event: message-summary Expires: 500 Accept: application/simple	to re-subscribe the current nt header is set to 'mess on/simple-message-sumr y e-message-summary e-message-summary → Eefore subscriptic	age-summary', the Expir nary'. The Call-ID is equ Tes SUBSCRIBE 200 OK (SUBSCRIBI on expires	es header is set to a proper al to the Call-ID of the initial t Equipment
Ensure that the user equipment is able to SUBSCRIBE message is sent. The Event value, Accept header is set to 'application subscription. SIP header: SUBSCRIBE Event: message-summary Expires: 500 Accept: application/simple	to re-subscribe the current nt header is set to 'mess on/simple-message-sumr y e-message-summary → ←	age-summary', the Expir nary'. The Call-ID is equ Tes SUBSCRIBE 200 OK (SUBSCRIBI	es header is set to a proper al to the Call-ID of the initial t Equipment E)

TSS	ТР	MWI reference	Selection expression
JserEquipment	MWI_U01_004	4.7.2.1	
lest purpose:			
Subscription after re-subscription fails			
Ensure that the user equipment is able to			
nessage is sent. The Event header is set		', the Expires header is se	et to a proper value, Accept
neader is set to 'application/simple-messa	ge-summary'.		
SIP header: SUBSCRIBE 1			
Event: message-summa	ary		
Expires: 500			
Accept: application/simp	le-message-summary		
SUBSCRIBE 2			
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	ary		
Expires: 500			
Accept: application/simp	le-message-summary		
Comments:		Test	
User Equipment	-		Equipment
	→ ↓	SUBSCRIBE	`
	E Refere cubecrintia	200 OK (SUBSCRIBE)
	Before subscriptio	SUBSCRIBE 1	
	,	500	
	×	300	
	→	SUBSCRIBE 2	
	+	200 OK (SUBSCRIBE)
		,	/
TSS	TP	MWI reference	Selection expression
UserEquipment	MWI_U01_005	4.7.2.1	-
Test purpose:			
Unsubscribe in case of logoff			
Ensure that the user equipment is able to			
A SUBSCRIBE message is sent. The Eve			
value, Accept header is set to 'application/		nary. The Call-ID is equa	ii to the Call-ID of the Initial
subscription. The Expires header is set to SIP header: SUBSCRIBE 1	2010.		
	. m /		
Event: message-summa	шу		
Expires: 0			
Accept: application/simp	ie-message-summary		
User Equipment		Test	Equipment
	→	SUBSCRIBE	• •
	+	200 OK (SUBSCRIBE)
			/
	Logoff in pro	cess	
	Logoff in pro-	Cess SUBSCRIBE 1 200 OK (SUBSCRIBE	

TSS	TP	MWI reference	Selection expression				
UserEquipment	MWI_U01_006	4.7.2.1					
Test purpose:	·	·					
Reception of status information after subsc	ription						
Upon receipt of a valid NOTIFY request after			ely renders the message status				
and summary information received in the N	IIME body to the end	user.					
SIP header: NOTIFY							
Event: message-summar	у						
Subscription-State: active	9						
Content-Type: application	Content-Type: application/simple-message-summary						
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	st Equipment				
	→	SUBSCRIBE					
	+	200 OK (SUBSCRIBI	E)				
Status information indicate to the user	+	NOTIFY					
	→	200 OK (NOTIFY)					

TSS	TP		MWI reference	Selection expression
UserEquipment	MWI_U01	_007	4.7.2.1	
Test purpose:				
Reception of status information after state of	change			
Upon receipt of a valid NOTIEV request to	unfunch tha ata			, a su lis sa a st issue a diata h i
Upon receipt of a valid NOTIFY request to renders the message status and summary i				
SIP header: NOTIFY 1				1961.
Event: message-summar	v			
Subscription-State: active				
Content-Type: application		age-sumr	nary	
Messages-Waiting: yes	much upor @(Convor		
Message-Account: sip: se Voice-Message: 4/1 (2/0)		Server		
Video-Message: 3/1 (1/0)				
Fax-Message: 2/1 (0/1)				
NOTIFY 2				
Event: message-summar				
Subscription-State: active				
Content-Type: application	1/simple-mess	age-sumr	nary	
Messages-Waiting: yes				
Message-Account: sip:se	rved user@	Server		
Voice-Message: 5/1 (2/0)				
Video-Message: 3/1 (1/0)				
Fax-Message: 2/1 (0/1)				
Comments:				
User Equipment				uipment
		→ ←		
		~	200 OK (SUBSCRIBE)	
Status information indicate to the user		÷	NOTIFY 1	
		→	200 OK (NOTIFY)	
	ew voice mes			
Status information indicate to the user		+	NOTIFY 2	
		→	200 OK (NOTIFY)	

5.2.2 Actions at the serving S-CSCF

TSS		TP		MWI reference	Selection expression
Netwwork/ServingS-CSCF		MWI_N01_00	1	4.7.2.3	
Test purpose:					
Initial filter criteria to activate the	message waitin	g indication service	e using	g the public service	identity in the request line
This Initial Filter Criteria informs	the originating S	-CSCF to route the	SUB	SCRIBE request to	the application server that
provides MWI service addressed	with the public	service identity.			
SIP header: SUBSCRIBE sip:<	MWI account>@	home network SI	P/2.0		
Event: messag	e-summary				
Expires: 7200	-				
Accept: applica	ation/simple-mes	sage-summary			
Preconditions: An arrangement	exists with the	service provider to	delive	r state changes	
Comments:		•			
Mw		SUT		ISC	
SUBSCRIBE	→		→	SUBSCRIBE	
200 OK (SUBSCRIBE)	÷		←	200 OK (SUBS	CRIBE)
NOTIFY	+		←	NOTIFY	
200 OK (NOTIFY)	→		→	200 OK (NOTIF	\mathbf{v}

5.2.3 Actions at the AS

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_001	4.7.2.5	
		3.4 [3]	
		3.1.4.1 [4]	
		3.1.6.2 [4]	
Test purpose:			
Subscription to the message waiting se	rvice, all relevant headers pres	ent	
Verify that the SUBSCRIBE request will	be accepted with following Su	bscribe-specific heade	ers: Event, Expires and
Accept. The 200 OK (SUBSCRIBE) cor			
service. A NOTIFY is sent immediately		account. The From he	ader tag and the Call-ID in
the NOTIFY are equal to the values in the	he SUBSCRIBE.		-
SIP header: SUBSCRIBE			
Event: message-sum	mary		
Expires: 7200			
Accept: application/sir	nple-message-summary		
NOTIFY			
Preconditions: An arrangement exists	with the service provider to del	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	+		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	+		
200 OK (NOTIFY)	→		

TSS	ТР	MWI reference	Selection expression
letwwork/AS_ServedUser	MWI_N03_002	4.7.2.5	
		3.4 [3]	
		3.1.4.1 [4]	
Test purpose:			·
SUBSCRIBE request without Expires he	ader		
Verify that the SUBSCRIBE request will			the 2xx response contains
an Expires header. The default value for	this subscription is equal to or	ne hour.	
SIP header: SUBSCRIBE			
Event: message-sumn	nary		
Accept: application/sin	nple-message-summary		
200 OK (SUBSCRIBE)			
o: message-summary			
Expires: 3600			
Accept: application/sin	ple-message-summary		
Preconditions: An arrangement exists v	with the service provider to del	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	÷		
NOTIFY	÷		
200 OK (NOTIFY)	→		
TSS	TP	MWI reference	Selection expression

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_003	4.7.2.5	
		3.4 [3]	
		3.1.4.1 [4]	
Test purpose:			
Subscription request with the minimum	duration.		
Verify that the SUBSCRIBE request wi	Il be accepted with a minimum d	uration period, e.g. 6	0 s.
SIP header: SUBSCRIBE			
Event: message-sum	mary		
Expires: 60			
Accept: application/si	mple-message-summary		
Preconditions: An arrangement exists	with the service provider to deli	ver state changes	
clause 3.4 of [3]	-	-	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASEB			
202 Accepted	+		
NOTIFY	+		
200 OK (NOTIFY)	→		

TSS	ТР		
Netwwork/AS_ServedUser	MWI_N03_004	MWI reference 4.7.2.5	Selection expression
inetwwork/AS_ServedOser	IVIV1_INU3_004	_	
		3.4 [3]	
		3.1.4.1 [4]	
Test purpose:			
Subscription request with the minimum duration	on with a duration smalle	r than the network du	ration time
Verify that the SUBSCRIBE request will be re	jected with a "423 Subscr	iption Too Brief" resp	onse if the requested
duration period is set too short, e.g. 10s; Che	ck also that the "423" resp	oonse contains a "Mir	h-Expires" header field
containing the min duration time for MWI.			
SIP header: SUBSCRIBE			
Event: message-summary			
Expires: 10			
Accept: application/simple-r	nessage-summarv		
423 Subscription Too Brief	j.		
Min-Expires: <a td="" valid="" values<=""><td>></td><td></td><td></td>	>		
Preconditions: An arrangement exists with the	he service provider to deli	ver state changes	
Comments:		ter etate enangee	
ISC			SUT
SUBSCRIBE	→		001
423 Subscription Too Brief	÷		
	X		
TOO	Тр	MW/L reference	Coloction expression
		MWI reference	Selection expression
	TP MWI_N03_005	4.7.2.5	Selection expression
		4.7.2.5 6.3 [4]	Selection expression
TSS Netwwork/AS_ServedUser		4.7.2.5	Selection expression
Netwwork/AS_ServedUser Test purpose:		4.7.2.5 6.3 [4]	Selection expression
Netwwork/AS_ServedUser		4.7.2.5 6.3 [4]	Selection expression
Netwwork/AS_ServedUser Test purpose: Header in compact form		4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac		4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac		4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary		4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200	MWI_N03_005	4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary	MWI_N03_005	4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r	MWI_N03_005	4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th	MWI_N03_005	4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th Comments:	MWI_N03_005	4.7.2.5 6.3 [4] 3.1.4.1 [4]	
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th Comments: ISC	Compared with the relevant intersage-summary	4.7.2.5 6.3 [4] 3.1.4.1 [4]	ict form.
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th Comments: ISC SUBSCRIBE	message-summary he service provider to deli	4.7.2.5 6.3 [4] 3.1.4.1 [4]	ict form.
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th Comments: ISC SUBSCRIBE CASE A	message-summary he service provider to deli	4.7.2.5 6.3 [4] 3.1.4.1 [4]	ict form.
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th Comments: ISC SUBSCRIBE CASE A 200 OK (SUBSCRIBE)	message-summary he service provider to deli	4.7.2.5 6.3 [4] 3.1.4.1 [4]	ict form.
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th Comments: ISC SUBSCRIBE CASE A 200 OK (SUBSCRIBE) CASE B	MWI_N03_005	4.7.2.5 6.3 [4] 3.1.4.1 [4]	ict form.
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200	message-summary he service provider to deli	4.7.2.5 6.3 [4] 3.1.4.1 [4]	ict form.
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th Comments: ISC SUBSCRIBE CASE A 200 OK (SUBSCRIBE) CASE B 202 Accepted	message-summary he service provider to deli	4.7.2.5 6.3 [4] 3.1.4.1 [4]	ict form.
Netwwork/AS_ServedUser Test purpose: Header in compact form Verify that the SUBSCRIBE request will be ac SIP header: SUBSCRIBE o: message-summary Expires: 7200 Accept: application/simple-r Preconditions: An arrangement exists with th Comments: ISC SUBSCRIBE CASE A 200 OK (SUBSCRIBE) CASE B	MWI_N03_005	4.7.2.5 6.3 [4] 3.1.4.1 [4]	ict form.

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_006	4.7.2.5 3.1.6.1 [4]	
Test purpose:			
Unknown event rejected			
Verify that the SUBSCRIBE request will be	e reiected with a "489 Bad Ev	/ent" response if the r	equested Event header is
not understood, e.g. unknown; Check also			
the 489 response.			
SIP header: SUBSCRIBE			
Event: unknown-event			
Expires: 7200 489 Bad Event			
Allow-Events: message	summarv		
Preconditions: An arrangement exists wi	th the service provider to deli	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE 489 Bad Event	→ ←		
	F		
		<i>_</i>	
TSS	TP MWI_N03_007	MWI reference 4.7.2.5	Selection expression
Netwwork/AS_ServedUser	MIVI_N03_007	4.7.2.5 3.1.6.3 [4]	
Test purpose:		0.1.0.0 [+]	
Authentication required			
Verify that the SUBSCRIBE request will be	a authenticated always with a	"401" response. The	user is authorized by
sending a REGISTER request. The subse			
the 200 OK (REGISTER).			
SIP header: SUBSCRIBE			
F (
Event: message-summa	ıry		
Expires: 7200			
Expires: 7200 Accept: application/simp	le-message-summary	in a state show and	
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi	le-message-summary	iver state changes	
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi Comments:	le-message-summary	iver state changes	SUT
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi Comments: ISC	le-message-summary	iver state changes	SUT
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi Comments: ISC SUBSCRIBE	le-message-summary th the service provider to deli	iver state changes	SUT
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi Comments: ISC SUBSCRIBE 401 Unauthorized REGISTER	ble-message-summary th the service provider to deli → ← →	iver state changes	SUT
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi Comments: ISC SUBSCRIBE 401 Unauthorized REGISTER 200 OK (REGISTER)	le-message-summary th the service provider to deli → ← → ←	iver state changes	SUT
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi Comments: ISC SUBSCRIBE 401 Unauthorized REGISTER 200 OK (REGISTER) SUBSCRIBE	lle-message-summary th the service provider to deli → ← → ← →	iver state changes	SUT
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi Comments: ISC SUBSCRIBE 401 Unauthorized REGISTER 200 OK (REGISTER)	le-message-summary th the service provider to deli → ← → ←	iver state changes	SUT
Expires: 7200 Accept: application/simp Preconditions: An arrangement exists wi Comments: ISC SUBSCRIBE 401 Unauthorized REGISTER 200 OK (REGISTER) SUBSCRIBE	lle-message-summary th the service provider to deli → ← → ← →	iver state changes	SUT

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_008	4.7.2.5 3.1.6.3 [4]	Selection expression
Test purpose:		0.1.0.0[1]	
Authentication fails			
Verify that the SUBSCRIBE request will be reju	ected with a "403 Forbide	den" or "603 Decline"	response if the subscriber
is not authorized to subscribe to the MWI servi	ce.		
SIP header: SUBSCRIBE			
Event: message-summary			
Expires: 7200			
Accept: application/simple-m			
Preconditions: No arrangement exists with th	e service provider to del	iver state changes	
Comments:			
	、		SUT
	→		
403 Forbidden	4		
CASE B	v		
603 Decline	+		
TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_009	4.7.2.5	
		3.1.4.3 [4]	
Test purpose: The user is able to unsubscribe the service			
The user is able to unsubscribe the service		3.1.4.3 [4]	thad with Evolution booder of
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I	MWI service by sending	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the l zero; Check that the 2xx response to the unsu	MWI service by sending	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE	MWI service by sending	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the l zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary	MWI service by sending	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the l zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0	MWI service by sending bscription contains also a	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the l zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m	MWI service by sending bscription contains also a	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the l zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0	MWI service by sending bscription contains also a	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE)	MWI service by sending bscription contains also a	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE) Expires: 0 NOTIFY Event: message-summary	MWI service by sending bscription contains also a nessage-summary	3.1.4.3 [4]	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE) Expires: 0 NOTIFY Event: message-summary Subscription-State: terminate	MWI service by sending bscription contains also a nessage-summary ed(; reason=timeout)	3.1.4.3 [4] of a SUBSCRIBE me an Expires header of	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE) Expires: 0 NOTIFY Event: message-summary Subscription-State: terminate Preconditions: An arrangement exists with th	MWI service by sending bscription contains also a nessage-summary ed(; reason=timeout)	3.1.4.3 [4] of a SUBSCRIBE me an Expires header of	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE) Expires: 0 NOTIFY Event: message-summary Subscription-State: terminate Preconditions: An arrangement exists with th Comments:	MWI service by sending bscription contains also a nessage-summary ed(; reason=timeout)	3.1.4.3 [4] of a SUBSCRIBE me an Expires header of	zero. A NOFIFY is sent.
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE) Expires: 0 NOTIFY Event: message-summary Subscription-State: terminate Preconditions: An arrangement exists with th Comments: ISC	MWI service by sending bscription contains also a nessage-summary ed(; reason=timeout) e service provider to deli	3.1.4.3 [4] of a SUBSCRIBE me an Expires header of	
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE) Expires: 0 NOTIFY Event: message-summary Subscription-State: terminate Preconditions: An arrangement exists with th Comments: ISC SUBSCRIBE	MWI service by sending bscription contains also a nessage-summary ed(; reason=timeout)	3.1.4.3 [4] of a SUBSCRIBE me an Expires header of	zero. A NOFIFY is sent.
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE) Expires: 0 NOTIFY Event: message-summary	MWI service by sending bscription contains also a nessage-summary ed(; reason=timeout) e service provider to deli	3.1.4.3 [4] of a SUBSCRIBE me an Expires header of	zero. A NOFIFY is sent.
The user is able to unsubscribe the service Verify that the user is able to unsubscribe the I zero; Check that the 2xx response to the unsu SIP header: SUBSCRIBE Event: message-summary Expires: 0 Accept: application/simple-m 200 OK (SUBCRIBE) Expires: 0 NOTIFY Event: message-summary Subscription-State: terminate Preconditions: An arrangement exists with th Comments: ISC SUBSCRIBE	MWI service by sending bscription contains also a nessage-summary ed(; reason=timeout) e service provider to deli	3.1.4.3 [4] of a SUBSCRIBE me an Expires header of	zero. A NOFIFY is sent.

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_010	4.7.2.5	
		3.1.4.2 [4]	
Test purpose:	· · · · · · · · · · · · · · · · · · ·		
Refresh of current subscription.			
Verify that at any time before a subscrip			
SUBSCRIBE request on the same dialo		The From header tag	and the Call-ID in the
SUBCRIBE 1 are equal to the values in	the SUBSCRIBE 2.		
SIP header: SUBSCRIBE 1			
Event: message-sum	mary		
Expires: 7200			
SUBSCRIBE 2	mple-message-summary		
Event: message-sumr	mary		
Expires: 7200	-		
	mple-message-summary		
Preconditions: An arrangement exists	with the service provider to deli	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE 1	→		
	←		
200 OK (SUBSCRIBE) CASE B	T		
202 Accepted	(
	×		
NOTIFY	+		
200 OK (NOTIFY)	→		
	Refreshing of Subscript	tion	
SUBSCRIBE 2	→		
CASE A	_		
200 OK (SUBSCRIBE)	(
202 Accepted	+		
NOTIFY	←		
200 OK (NOTIFY)	→		

		MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_011	4.7.2.5 3.1.4.2 [4]	
Test purpose:			
Unsuccessful refresh of subscription			
Verify that after expiry of the subscription	a SUBSCRIBE request on th	e same dialog as the	actual expired subscription
will be rejected with a "481" response. Th			
in the SUBSCRIBE 2.	-		
SIP header: SUBSCRIBE 1			
Event: message-summa	ary		
Expires: 7200			
Accept: application/sim SUBSCRIBE 2	ple-message-summary		
Event: message-summa	ary		
Expires: 7200			
Accept: application/sim			
Preconditions: An arrangement exists w	ith 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
Netwwork/AS_ServedUser	MWI_N03_012	4.7.2.5 3.1.2 [4]	
Test purpose:			
MWI subscription fails if no Event header	is included		
Verify that the SUBSCRIBE request will b			

Verify that the SUBSCRIBE request will be rejected with a "489 Bad Event" response if the mandatory Event header is not included. SIP header: SUBSCRIBE

Expires: 7200			
Accept: application/s	simple-message-summary		
Preconditions: An arrangement exist	ts with the service provider to deliver state c	hanges	
Comments:			
ISC		SUT	
SUBSCRIBE	→		
489 Bad Event	+		

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_013	4.7.2.5	
Test purpose:	·		
Refresh of subscription in a new dialogu	le		
Verify that at any time before a subscrip SUBSCRIBE request on a different dialo			
header tag and the Call-ID in the SUBC			
SIP header: SUBSCRIBE 1			
Event: message-summ	nary		
Expires: 7200	,		
	nple-message-summary		
SUBSCRIBE 2			
Event: message-sumn	nary		
Expires: 7200			
Accept: application/sin	nple-message-summary		
Preconditions: An arrangement exists	with the service provider to del	liver state changes	
Comments:			
ISC	_		SUT
SUBSCRIBE 1	→		
	←		
200 OK (SUBSCRIBE) CASE B	F		
202 Accepted	←		
	C		
NOTIFY	+		
200 OK (NOTIFY)	÷		
	Refreshing of Subscrip	tion	
SUBSCRIBE 2	→ →		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	÷		
200 OK (NOTIFY)	→		

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_014	4.7.2.5	• • • • •
_		3.1.6.2 [4]	
		3.2.2 [4]	
Test purpose:			
NOTIFY request after initial subscription			
Verify that after a successfully subscription			
"Subscription-State" header with the value			
the subscription. The From header tag and The NOTIFY includes:	I the Call-ID in the NOTIFY a	are equal to the value	s in the SUBSCRIBE.
 Event header set to message-summar 	D/		
 Subscription-State header set to active 		or sot to the time rom	aining on the subscription
 Content-Type header set to application 			alling on the subscription
MIME body:	n/simple-message-summary		
 Messages-Waiting: yes 			
 Message-Account: identifying the serv 	ed user (optional)		
 msg-summary-line(s) (optional) 			
SIP header: SUBSCRIBE			
Event: message-summar	ry		
Expires: 7200	-		
Accept: application/simpl	e-message-summary		
NOTIFY			
Event: message-summar			
	e; expires= n/simple-message-summary		
Messages-Waiting: yes	n/simple-message-summary		
wessages-waiting. yes			
Preconditions: An arrangement exists wit	h the service provider to deli	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B	-		
202 Accepted	+		
NOTIFY	+		
200 OK (NOTIFY)	→		

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_015	4.7.2.5	-
		3.1.6.4 [4]	
Test purpose:			
Subscription is not refreshed, terminati	ion by send a NOTIFY		
Verify that after a successfully subscrip	ption a NOTIFY message will be	successfully retransn	nitted if no "200 OK"
response has been received; Check th			
NVITE transaction timeout; 64*T1) by			
"terminated" including a reasonable "re		ated". The From heade	er tag and the Call-ID in the
NOTIFY are equal to the values in the	SUBSCRIBE.		
SIP header: SUBSCRIBE			
Event: message-summa	ry		
Expires: 60			
Accept: application/simp	le-message-summary		
NOTIFY 2			
Event: message-summa			
	inated(; reason=timeout)		
Preconditions: An arrangement exists	s with the service provider to de	liver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASEA	_		
200 OK (SUBSCRIBE)	+		
CASE B	_		
202 Accepted	←		
NOTIFY 1	+		
200 OK (NOTIFY)	→		
	Subscription timeou	It	
NOTIFY 2	+		
200 OK (NOTIFY)	+		

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_016	4.7.2.5	
		3.2.2 [4]	
Test purpose:			
Subscription terminates after 403 res	ponse to NOTIFY request		
Verify that a non-200 response (e.g.	403) after a received NOTIFY rec	uest will be consider	ed the subscription failed;
Check that no further NOTIFY respon	ses will be received.		
SIP header: SUBSCRIBE			
Event: message-su	mmary		
Expires: 7200			
Accept: application/	simple-message-summary		
Preconditions: An arrangement exis	ts with the service provider to deli	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	+		
403 Forbidden	→		
Actio	n causes in a message summa	ry state change	
		No s	ubsequent NOTIFY is sent

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_017	4.7.2.5	_
		3.2.2 [4]	
Test purpose:			
Subscription terminates after 481 respon	nse to NOTIFY request		
Verify that a non-200 response (e. g. 48		quest will remove the	corresponding subscriptio
Check that no further NOTIFY responses	s will be received.		
SIP header: SUBSCRIBE			
Event: message-summ	hary		
Expires: 7200			
	ple-message-summary		
Preconditions: An arrangement exists v	with the service provider to del	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	+		
481 Call/Transaction Does Not Exist	→		
Action of	causes in a message summa	ry state change	
		No s	ubsequent NOTIFY is se
TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_018	4.7.2.5	
		3.2.2 [4]	
Test purpose:			
Subscription terminates after no respons	se to NOTIFY request		
Verify that after a successfully subscription			nitted if no "200 OK"
response has been received (this results	in intervals of 500ms, 1s, 2s,	4s, 4s, 4s, etc.);	
SIP header: SUBSCRIBE			
Event: message-summ	harv		

SIP header: SUBSCRIBE		
Event: message-summ	ary	
Expires: 7200	•	
Accept: application/sim	ple-message-summary	
Preconditions: An arrangement exists w		ate changes
Comments:		
ISC		SUT
SUBSCRIBE	→	
CASE A		
200 OK (SUBSCRIBE)	+	
CASE B		
202 Accepted	←	
NOTIFY	←	
NOTIFY	←	
NOTIFY	+	
NOTIFY	+	
Action c	auses in a message summary sta	te change
	c ,	No subsequent NOTIFY is sent

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_019	4.7.2.5	-
		3.5 [3]	
		3.2 [4]	
Fest purpose:			
Voice message indicated in the NOT	IFY request after initial subscription	on.	
Verify that after a successfully subsc	ription a NOTIFY message has be	en received a simple	status line the body due to
a voice message in the deposit.	· · · · · · · · · · · · · · · · · · ·		-
SIP header: SUBSCRIBE			
Event: message-su	Immary		
Expires: 7200	-		
Accept: application	/simple-message-summary		
NOTIFY			
Event: message-su	Immary		
Subscription-State:	active; expires= 		
Content-Type: app	lication/simple-message-summary	1	
Messages-Waiting	yes		
Preconditions: An arrangement exis	sts with the service provider to deli	iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	÷		
CASEB			
202 Accepted	←		
NOTIFY	+		
200 OK (NOTIFY)	→		
TSS	ТР	MWI reference	Selection expression
Netwwork/AS ServedUser	MWI N03 020	4.7.2.5	PICS 1.3/1

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_020	4.7.2.5	PICS 1.3/1
		3.5 [3]	
		3.2 [4]	
Test purpose:			
Voice message indicated in the NOTIE	/ request after initial subscriptic	on msa-account prese	ent

Voice message indicated in the NOTIFY request after initial subscription msg-account present

Verify that after a successfully subscription a NOTIFY message has been received containing a "msg-account" line in the body due to a voice message in the deposit.

the body due to a voice message in the d		
SIP header: SUBSCRIBE		
Event: message-summ	ary	
Expires: 7200		
Accept: application/sim	ple-message-summary	
NOTIFY		
Event: message-summ	ary	
Subscription-State: acti	ve	
Content-Type: applicati	on/simple-message-summary	
Messages-Waiting: yes	i	
Message-Account: sip:-	<uri mwi="" of="" served="" user=""></uri>	
Preconditions: An arrangement exists w	ith the service provider to deliver state cha	anges
Comments:		
ISC		SUT
SUBSCRIBE	→	
CASE A		
200 OK (SUBSCRIBE)	+	
CASE B		
202 Accepted	+	
NOTIFY	+	
200 OK (NOTIFY)	→	

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_021	4.7.2.5	PICS 1.3/2
		3.5 [3]	
		3.2 [4]	
est purpose:			
/oice message indicated in the NOTIFY	request after initial subscription	on msg-summary-line	present
/erify that after a successfully subscription		en received containir	ng a "msg-summary-line"
ine in the body due to a Voice message	in the deposit.		
SIP header: SUBSCRIBE			
Event: message-summ	hary		
Expires: 7200			
	ple-message-summary		
NOTIFY			
Event: message-summ			
Subscription-State: act			
	ion/simple-message-summary		
Messages-Waiting: yes		valid values I ve vali	
voice-message. <a td="" val<=""><td>id value> / (<a< td=""><td>iver state shap as</td><td></td></a<></td>	id value> / (<a< td=""><td>iver state shap as</td><td></td></a<>	iver state shap as	
Preconditions: An arrangement exists v			
Comments: The "new-urgentmsgs SLAS	SH old-urgentmsgs is optional	1	SUT
	→		501
SUBSCRIBE CASE A	7		
200 OK (SUBSCRIBE)	←		
CASE B	C		
202 Accepted	←		
202 Accepted	E.		
NOTIFY	+		
200 OK (NOTIFY)	→ →		
		1	
TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_022	4.7.2.5	
		3.5 [3]	
		3.2 [4]	
Test purpose:			
Fax message indicated in the NOTIFY re	equest after initial subscription.		
Verify that after a successfully subscription	on a NOTIFY message has be	en received a simple	status line the body due t
a <i>Fax</i> message in the deposit.			
SIP header: SUBSCRIBE			
Event: message-summ	arv		
	·-·· ,		
Expires: 7200			

Event: message-sumr	mary	
Expires: 7200		
Accept: application/sir	mple-message-summary	
NOTIFY		
Event: message-sumr	mary	
Subscription-State: ac	ctive	
Content-Type: applica	ation/simple-message-summary	
Messages-Waiting: ye	es	
Preconditions: An arrangement exists	with the service provider to deliver state ch	nanges
Comments:		
ISC		SUT
SUBSCRIBE	→	
CASE A		
200 OK (SUBSCRIBE)	+	
CASE B		
202 Accepted	÷	
NOTIFY	+	
200 OK (NOTIFY)	→	

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_023	4.7.2.5 3.5 [3]	PICS 1.3/1
Test purpose:		3.2 [4]	
Fax message indicated in the NOTIFY request after	r initial subscription	msg-account present	
		•	
Verify that after a successfully subscription a NOTIF the body due to a <i>Fax</i> message in the deposit.	⁻ Y message has be	en received containing	a "msg-account " line in
SIP header: SUBSCRIBE			
Event: message-summary Expires: 7200 Accept: application/simple-messa NOTIFY	ge-summary		
Event: message-summary			
Subscription-State: active Content-Type: application/simple-	message-summary		
Messages-Waiting: yes	rund MW/Lucors		
Message-Account: sip: <uri of="" se<br="">Preconditions: An arrangement exists with the server</uri>	vice provider to deli	ver state changes	
Comments:			
ISC SUBSCRIBE	→	\$	SUT
CASE A 200 OK (SUBSCRIBE) CASE B	+		
202 Accepted	÷		
NOTIFY	(
200 OK (NOTIFY)	→		
TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_024	4.7.2.5 3.5 [3]	PICS 1.3/2
		3.2 [4]	
Test purpose:			•
Fax message indicated in the NOTIFY request after	r initial subscription	msg-summary-line pre	sent
Verify that after a successfully subscription a NOTIF in the body due to a <i>Fax</i> message in the deposit.	-Y message has be	en received containing	a "Voice-Message:" line
SIP header: SUBSCRIBE			
Event: message-summary			
Expires: 7200 Accept: application/simple-messa NOTIFY	ge-summary		
Event: message-summary			
Subscription-State: active			
Content-Type: application/simple- Messages-Waiting: yes	message-summary		
fax-message: /<a< td=""><td></td><td></td><td>le>)</td></a<>			le>)
Preconditions: An arrangement exists with the ser Comments: The "new-urgentmsgs SLASH old-urge			
ISC	interiority is optional		SUT
	→	·	
200 OK (SUBSCRIBE) CASE B	+		
202 Accepted	+		
	+ -		
200 OK (NOTIFY)	→		

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_025	4.7.2.5	• • • • •
		3.5 [3]	
		3.2 [4]	
Test purpose:			
NOTIFY indicates state change due t	o Voice message after successfu	Il subscription	
Verify that after a successfully subscr			
an additional NOTIFY request will be			
message have been received at the N			MIME body. The From
header tag and the Call-ID in the NO	ITEY 1 are equal to the values in t	the NOTIFY 2.	
SIP header: SUBSCRIBE			
Event: message-su	mmary		
Expires: 7200	/simple-message-summary		
NOTIFY 1	simple-message-summary		
Event: message-su	mmary		
	active; expires= 		
	ication/simple-message-summary	/	
NOTIFY 2			
Event: message-su			
	active; expires= 		
	ication/simple-message-summary		
Preconditions: An arrangement exis	ts with the service provider to del	iver state changes	
Comments:			
ISC SUBSCRIBE	→		SUT
CASE A	7		
200 OK (SUBSCRIBE)	←		
CASE B	•		
202 Accepted	+		
NOTIFY 1	+		
200 OK (NOTIFY)	→		
Actic	on causes in a message summa	ary state change	
NOTIFY 2	÷		
200 OK (NOTIFY)	→		

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_026	4.7.2.5	PICS 1.3/1
		3.5 [3]	
		3.2 [4]	
Test purpose:			
NOTIFY indicates state change due to	o Voice message after successfu	Il subscription msg-ac	count line is present
Verify that after a successfully subscri	iption a NOTIFY message has be	en received immedia	tely; Afterwards verify that
an additional NOTIFY request will be			
message have been received at the N			MIME body. The From
header tag and the Call-ID in the NOT	TIFY 1 are equal to the values in	the NOTIFY 2.	
SIP header: SUBSCRIBE			
Event: message-sur	nmary		
Expires: 7200			
	simple-message-summary		
NOTIFY 1			
Event: message-sur			
Subscription-State:			
	cation/simple-message-summary	/	
Messages-Waiting:			
Message-Account: s NOTIFY 2	sip: <uri mwi="" of="" served="" user=""></uri>		
	~~~~~~		
Event: message-sur Subscription-State:			
	cation/simple-message-summary	1	
Messages-Waiting:			
	sip: <uri mwi="" of="" served="" user=""></uri>		
Preconditions: An arrangement exist		iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	<b>→</b>		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B	_		
202 Accepted	+		
NOTIFY 1	+		
200 OK (NOTIFY)	→		
	n causes in a message summa	ary state change	
NOTIFY 2	+		
200 OK (NOTIFY)	→ →		

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_027	4.7.2.5	PICS 1.3/2
_		3.5 [3]	
		3.2 [4]	
Test purpose:		·	
NOTIFY indicates state change due to	> Voice message after successfu	I subscription msg-su	mmary-line is present
Verify that after a successfully subscri			
an additional NOTIFY request will be			
message have been received at the N			
header tag and the Call-ID in the NOT	IFY 1 are equal to the values in	the NOTIFY 2. The "n	ewmsgs" attribute is
incremented by one.			
SIP header: SUBSCRIBE			
Event: message-sur	nmary		
Expires: 7200			
	simple-message-summary		
NOTIFY 1			
Event: message-sur			
Subscription-State:			
	cation/simple-message-summary	у	
Messages-Waiting:			
	valid value>/ <a valid="" value=""></a>		
NOTIFY 2			
Event: message-sur			
Subscription-State:			
	cation/simple-message-summary	У	
Messages-Waiting:			
	valid value> + 1/ <a valid="" value=""></a>		
Preconditions: An arrangement exist	s with the service provider to de	liver state changes	
Comments:			0.17
ISC	、		SUT
SUBSCRIBE	<b>→</b>		
200 OK (SUBSCRIBE)	÷		
CASE B			
202 Accepted	+		
NOTIFY 1	+		
200 OK (NOTIFY)	· · · · ·		
	n causes in a message summa	ary state change	
NOTIFY 2	÷		
200 OK (NOTIFY)	→		

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_028	4.7.2.5	PICS 1.3/3
	10101_1003_020	3.5 [3]	1166 1.5/5
		3.2 [4]	
Test purpose:		0.2 [1]	
NOTIFY indicates state change due to Voice me	essage after successfu	l subscription opt-msc	n-headers are present
Verify that after a successfully subscription a NC	OTIFY message has be	en received immediat	ely: Afterwards verify that
an additional NOTIFY request will be sent imme			
message have been received at the Message a	ccount. The subsequer	nt NOTIFY contains m	essage headers, which
further describe newly added message(s). The I	From header tag and th	ne Call-ID in the NOTI	FY 1 are equal to the
values in the NOTIFY 2.	-		-
SIP header: SUBSCRIBE			
Event: message-summary			
Expires: 7200			
Accept: application/simple-me	ssage-summary		
NOTIFY 1			
Event: message-summary			
Subscription-State: active			
Content-Type: application/sim	ple-message-summary	,	
Messages-Waiting: yes			
NOTIFY 2			
Event: message-summary			
Subscription-State: active			
Content-Type: application/sim	ple-message-summary	1	
Messages-Waiting: yes			
To: <user1_public1@home1.r< td=""><td>ot&gt;</td><td></td><td></td></user1_public1@home1.r<>	ot>		
From: <user3_public1@home< td=""><td></td><td></td><td></td></user3_public1@home<>			
Message-ID: <a valid="" value="">&gt;</a>			
Message-Context: voice-mess			
<b>Preconditions:</b> An arrangement exists with the		iver state changes	
Comments:			
ISC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	←		
CASE B			
202 Accepted	+		
NOTIFY 1	+		
200 OK (NOTIFY)	<b>→</b>		
	in a message summa	ry state change	
NOTIFY 2	+		
200 OK (NOTIFY)	<b>→</b>		

' <b>SS</b> letwwork/AS_ServedUser	TP		
ielwwork/AS_ServeuUSer	MWI_N03_029	MWI reference 4.7.2.5	Selection expression
	101001_1003_029	3.5 [3]	
		3.2 [4]	
		3.2 [4]	
' <b>est purpose:</b> IOTIFY indicates state change due to Fax mes	sage after successful s	ubscription	
erify that after a successfully subscription a NC			
n additional NOTIFY request will be sent imme			
nessage have been received at the Message a			MIME body. The From
eader tag and the Call-ID in the NOTIFY 1 are	equal to the values in t	he NOTIFY 2.	
SIP header: SUBSCRIBE			
Event: message-summary			
Expires: 7200			
Accept: application/simple-me	ssage-summary		
NOTIFY 1			
Event: message-summary			
Subscription-State: active; exp			
Content-Type: application/sim	ple-message-summary	,	
Messages-Waiting: yes			
NOTIFY 2			
Event: message-summary			
Subscription-State: active; exp			
Content-Type: application/sim	ple-message-summary	•	
Messages-Waiting: yes			
Preconditions: An arrangement exists with the	service provider to deli	iver state changes	
Comments:			
SC	_		SUT
SUBSCRIBE	<b>→</b>		
ASE A	-		
00 OK (SUBSCRIBE)	←		
CASE B	-		
02 Accepted	+		
IOTIFY 1	+		
00 OK (NOTIFY)	→		
	in a message summa	rv state change	
IOTIFY 2	m a message summa ←	i y state onange	
00 OK (NOTIFY)	÷		

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_030	4.7.2.5	PICS 1.3/1
_		3.5 [3]	
		3.2 [4]	
Test purpose:			
NOTIFY indicates state change due to I	Fax message after successful s	subscription; msg-acc	ount line is present
Verify that after a successfully subscript			
an additional NOTIFY request will be se			
message have been received at the Me			MIME body. The From
header tag and the Call-ID in the NOTIF	Y 1 are equal to the values in t	the NOTIFY 2.	
SIP header: SUBSCRIBE			
Event: message-sumr	nary		
Expires: 7200			
Accept: application/sir	nple-message-summary		
NOTIFY 1			
Event: message-sumr			
Subscription-State: ac			
	tion/simple-message-summary	1	
Messages-Waiting: ye			
	: <uri mwi="" of="" served="" user=""></uri>		
NOTIFY 2			
Event: message-sumr			
Subscription-State: ac			
	tion/simple-message-summary	/	
Messages-Waiting: ye			
	: <uri mwi="" of="" served="" user=""></uri>		
Preconditions: An arrangement exists Comments:	with the service provider to del	iver state changes	
ISC			SUT
SUBSCRIBE	<b>→</b>		
CASE A	2		
200 OK (SUBSCRIBE)	+		
CASE B	-		
202 Accepted	+		
NOTIFY 1	+		
200 OK (NOTIFY)	<b>→</b>		
	causes in a message summa	ry state change	
NOTIFY 2	←	- 0	
200 OK (NOTIFY)	<b>→</b>		

TSS	TP	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_031	4.7.2.5	PICS 1.3/2
—		3.5 [3]	
		3.2 [4]	
Test purpose:			
NOTIFY indicates state change due to Fa	ax message after successful s	subscription; msg-sum	nmary-line is present
Verify that after a successfully subscriptic			
an additional NOTIFY request will be sen			
message have been received at the Mes			
header tag and the Call-ID in the NOTIFY	(1 are equal to the values in t	the NOTIFY 2. The "n	ewmsgs" attribute is
ncremented by one.			
SIP header: SUBSCRIBE			
Event: message-summ	ary		
Expires: 7200			
Accept: application/sim	ple-message-summary		
NOTIFY 1			
Event: message-summ			
Subscription-State: acti			
	on/simple-message-summary	1	
Messages-Waiting: yes			
fax-message: <a td="" v<="" valid=""><td>/alue&gt;/<a valid="" value=""></a></td><td></td><td></td></a>	/alue>/ <a valid="" value=""></a>		
NOTIFY 2			
Event: message-summ			
Subscription-State: acti			
Content-Type: applicati	on/simple-message-summary	/	
Messages-Waiting: yes			
	value> + 1/ <a valid="" value=""></a>		
Preconditions: An arrangement exists w Comments:	ith the service provider to del	iver state changes	
SC			SUT
SUBSCRIBE	<b>→</b>		
CASE A	-		
200 OK (SUBSCRIBE)	F		
CASE B	-		
202 Accepted	+		
NOTIFY 1	+		
200 OK (NOTIFY)	<b>→</b>		
	auses in a message summa	ry state change	
NOTIFY 2	←	,	

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N03_032	4.7.2.5	PICS 1.3/3
		3.5 [3]	1100 110,0
		3.2 [4]	
Test purpose:			
NOTIFY indicates state change due to	o Fax message after successful s	subscription; opt-msg-	headers are present
5	3	1 / 1 0	
Verify that after a successfully subscri			
an additional NOTIFY request will be			
message have been received at the N		nt NOTIFY contains m	essage headers, which
further describe newly added messag	e(s).		
SIP header: SUBSCRIBE			
Event: message-su	nmary		
Expires: 7200			
	simple-message-summary		
NOTIFY 1			
Event: message-su			
Subscription-State:			
	cation/simple-message-summary	/	
Messages-Waiting:	yes		
NOTIFY 2	mmon/		
Event: message-su Subscription-State:			
	cation/simple-message-summary	1	
Messages-Waiting:			
messages waiting.	yes		
To: <user1_public1< td=""><td>@home1.net&gt;</td><td></td><td></td></user1_public1<>	@home1.net>		
From: <user3_publi< td=""><td></td><td></td><td></td></user3_publi<>			
Message-ID: <a td="" val<=""><td></td><td></td><td></td></a>			
Message-Context: f			
Preconditions: An arrangement exis	ts with the service provider to del	iver state changes	
Comments:	-		
ISC			SUT
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	÷		
	+		
200 OK (NOTIFY)	→	wy ofoto chonge	
NOTIFY 2	n causes in a message summa ←	iny state change	
200 OK (NOTIFY)	← →		
	7		

# 5.3 Interaction with other services

### 5.3.1 Communication DIVersion services (CDIV)

### 5.3.1.1 Communication Forwarding Unconditional (CFU)

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N04_001	4.9.7.1	-
Test purpose:			
Call forwarding unconditional is ignore	d in case of a NOTIFY due to su	bscription	
Verify that after a successfully subscrip		orwarded uncondition	al. The NOTIFY request is
forwarded to the served users current	location.		
SIP header:			
Preconditions: An arrangement exists	s with the service provider to deli	ver state changes, Cl	FU is activated.
Comments:			
ISC			SUT
	CFU is already activate	ed	
SUBSCRIBE	· •		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY	+		
200 OK (NOTIFY)	<b>→</b>		

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N04_002	4.9.7.1]	
Test purpose:			
Call forwarding unconditional is ignore	ed in case of a NOTIFY due to sta	ite change	
	intion a NOTIEV manager indicati	na ostato abonas io	a at famula d
Verify that after a successfully subscri	· · · · ·	0 0	not forwarded
unconditional. The NOTIFY request is	forwarded to the served users cu	irrent location.	
SIP header:			
Preconditions: An arrangement exist	ts with the service provider to delive	ver state changes, Cl	-U is activated.
Comments:			
ISC			SUT
	CFU is already activate	ed	
SUBSCRIBE	<b>→</b>		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
	_		
NOTIFY	+		
200 OK (NOTIFY)	<b>→</b>		
Actio	n causes in a message summa	ry state change	
NOTIFY	+		
200 OK (NOTIFY)	→ →		

### 5.3.1.2 Communication Forwarding Busy (CFB)

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N04_003	4.9.7.2	
Test purpose:			
Call forwarding busy is ignored in case	e of a NOTIFY due to subscriptior	า	
Verify that after a successfully subscri	ption a NOTIFY message is not for	orwarded network de	termined user busy. The
NOTIFY request is forwarded to the se	erved users current location.		
SIP header:			
Preconditions: An arrangement exist	s with the service provider to delive	ver state changes, Cl	FB is activated.
Comments:			
ISC			SUT
	CFB is already activate	ed	
SUBSCRIBE	→		
CASE A			
200 OK (SUBSCRIBE)	+		
CASE B			
202 Accepted	+		
NOTIFY 2	+		
200 OK (NOTIFY)	→		
TSS	ТР	MWI reference	Selection expression

TSS	TP	,	MWI reference	Selection expression
Netwwork/AS_ServedUser	MV	VI_N04_004	4.9.7.2	
Test purpose:				
Call forwarding busy is ignor	ed in case of a NOTIFY due	to state cha	nge	
Verify that after a successfull	ly subscription a NOTIFY m	essage indica	ating a state change is i	not forwarded network
determined user busy. The N	IOTIFY request is forwarded	to the serve	ed users current location	۱.
SIP header:				
Preconditions: An arrangen	nent exists with the service	provider to de	eliver state changes, CF	B is activated.
Comments:				
ISC				SUT
	CFB is al	ready activa	ited	
SUBSCRIBE		<b>→</b>		
CASE A				
200 OK (SUBSCRIBE)		÷		
CASE B				
202 Accepted		+		
NOTIFY		÷		
200 OK (NOTIFY)		<b>→</b>		
	Action causes in a me	ssage summ	nary state change	
NOTIFY 2		<b>~</b>		
200 OK (NOTIFY)		<b>→</b>		

TSS	ТР	MWI reference	Selection expression
Netwwork/AS_ServedUser	MWI_N04_005	4.9.7.5	
lest purpose:		uniter (i.e. un	
Communication deflection is ignored	In case of a INUTIFY due to subsc	ription	
/erify that after a successfully subsc	ription a NOTIFY message is forwa	arded to the served us	sers current location. The
AS shall ignore the redirection inform			
Jnavailable response.	·	·	
SIP header:			
Preconditions: An arrangement exist	sts with the service provider to deli-	ver state changes, CI	D is activated.
Comments:			<b></b>
SC			SUT
	CD is already activated	d	
SUBSCRIBE CASE A	→		
200 OK (SUBSCRIBE)	←		
CASE B	•		
202 Accepted	+		
•			
NOTIFY 2	<del>~</del>		
302 Moved Temporarily	<b>→</b>		
r <b>SS</b> Netwwork/AS_ServedUser	MWI_N04_006	MWI reference 4.9.7.5	Selection expression
<b>Fest purpose:</b> Communication deflection is ignored	in case of a NOTIEV due to state	changa	
	in case of a NOTIFY due to state	change	
/erify that after a successfully subsc	ription a NOTIFY message indicati	ing a state change is t	orwarded to the served
users current location. The AS shall	ignore the redirection information r	eceived from the UE	and process a 3xx
esponse as a 480 Temporarily Unav			•
ND headar			
SIP header: Preconditions: An arrangement exist	sts with the service provider to deli	ver state changes, CI	D is activated.
Preconditions: An arrangement exis	sts with the service provider to deli	ver state changes, CI	
Preconditions: An arrangement exis			D is activated.
Preconditions: An arrangement exis Comments: SC	CD is already activated		
Preconditions: An arrangement exis Comments: SC SUBSCRIBE			
Preconditions: An arrangement exis Comments: SC SUBSCRIBE CASE A	CD is already activated		
	CD is already activated		
Preconditions: An arrangement exis Comments: SC SUBSCRIBE CASE A 200 OK (SUBSCRIBE) CASE B	CD is already activated		
Preconditions: An arrangement exis Comments: SC SUBSCRIBE CASE A 200 OK (SUBSCRIBE) CASE B 202 Accepted	CD is already activated → ←		
Preconditions: An arrangement exis Comments: SC SUBSCRIBE CASE A 200 OK (SUBSCRIBE) CASE B 202 Accepted NOTIFY 200 OK (NOTIFY)	CD is already activated → ← ← →	d	
Preconditions: An arrangement exis Comments: SC GUBSCRIBE CASE A 200 OK (SUBSCRIBE) CASE B 202 Accepted NOTIFY 200 OK (NOTIFY) Activ	CD is already activated → ← ← ←	d	
Preconditions: An arrangement exis Comments: SC SUBSCRIBE CASE A 200 OK (SUBSCRIBE) CASE B 202 Accepted NOTIFY 200 OK (NOTIFY)	CD is already activated → ← ← →	d	

# Annex A (informative): Bibliography

ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".

# History

Document history		
V3.1.1	July 2010	Publication