### 3GPP TSG CN Meeting #27 9th - 11th March 2005. Tokyo, Japan.

TSG CN WG1
CR to Rel-6 WI "PRESNC" for TS 24.229 and TS 24.141
9.2
APPROVAL

This document contains 5 **CRs on Rel-6 Work Item "PRESNC"**, that have been agreed by TSG CN WG1 CN#37 meeting and forwarded to TSG CN Plenary meeting #27 for approval.

			CR				
TDoc #	Tdoc Title	Spec	#	Rev	CAT	C_Version	WI
N1- 050082	Authentication proxy for presence	24.141	035		F	6.2.0	PRESNC
N1- 050244	XCAP-change correction	24.141	38		F	6.2.0	PRESNC
N1- 050245	IFC corrections	24.141	39		F	6.2.0	PRESNC
N1- 050306	Sip-profile package in major capabilities	24.229	795	1	F	6.5.1	PRESNC
N1- 050243	XCAP-change clarrification	24.141	37		D	6.2.0	PRESNC

# 3GPP TSG-CN1 Meeting #37 Sydney, Australia, 14-18 February 2004

CHANGE REQUEST													
æ	24.	. <mark>141</mark>	CR	35		жrev	-	ж	Curre	nt vers	sion:	6.2.0	ж
For <u>HELP</u> on u	For <u><b>HELP</b></u> on using this form, see bottom of this page or look at the pop-up text over the $\Re$ symbols.												
Proposed change affects: UICC apps 郑 ME Radio Access Network Core Network X													
Title: ೫	Aut	hentic	ation p	roxy for p	oreser	ice							
Source: ೫	Sie	mens											
Work item code: ೫	PR	ESNC							D	ate: #	12/	01/2005	
Category: अ	<b>F</b> Use <u>o</u> Detai be fo	one of F (con A (cor B (add C (fun D (edi iled exp und in	the follo rection) respond dition of ctional r torial me blanation 3GPP <u>1</u>	wing cate Is to a cor feature), modification ns of the a <u>R 21.900</u>	egories rrectior on of fe 1) above	n in an ea eature) categorie	arlier n	eleas	<b>Relea</b> Use F F F F F F F F F	ase: ₩ o <u>ne</u> of 2h2 296 297 298 299 201-4 201-5 201-6 201-7	Contractions of the formation of the for	I-6 Illowing re A Phase 2 pase 1996 pase 1997 pase 1999 pase 1999 pase 4) pase 5) pase 6) pase 7)	leases: ) ) )
Reason for change	e: Ж	Up ti	ll now r	no prese	nce sr	ecific re	auire	men	ts have	been	stand	ardized	for an
, see an		auth	enticati	on proxy	acting	g within	the c	onte	ct of pre	esence	e. Hov	wever 33.	141
Summary of chang	<b>де:</b> Ж	In ca "X-3	ise of a GPP-In	cting as tended-l	an AP dentity	for Pre	sence f the '	e the "X-30	AP sha SPP-As	all sup sserted	port ti d-Iden	<mark>ne handli</mark> Itity" head	ng of the ders.
Consequences if not approved:	Ħ	Stag	e-2 req	uiremen	ts not	implem	ented						
Clauses affected:	ж	6.2.3	3										
Other specs affected:	ж	Y N X X X	Other Test s O&M	core spe specificat Specifica	ecifica tions ations	tions	ж						
Other comments:	Ħ												

#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. Below is a brief summary:

1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

3

# 6.2.3 Authentication proxy

The generic requirements for an Authentication Proxy are defined in 3GPP TS 24.109 [7].

In addition an authentication proxy acting within the scope of Presence shall:

- 1) verify the content of the "X-3GPP-Intended-Identity" header in case it is available in HTTP requests; and
- 2) indicate an asserted identity of the user in the "X-3GPP-Asserted-Identity" header in HTTP requests sent to the <u>AS.</u>
- Editor's note: This sub-clause will contain service specific requirements for an authentication proxy. It is for furtherstudy whether presence specific requirements exist or whether all requirements are covered in 3GPP TS 24.109 [7].

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CHANGE REQUEST								
ж	<b>24.141</b> CR <b>37 # rev</b> - <sup># Current version: 6.2.0 <sup>#</sup></sup>							
For <u>HELP</u> of	n using this form, see bottom of this page or look at the pop-up text over the $st$ symbols.							
Proposed chang	ge affects:       UICC apps       ME X       Radio Access Network       Core Network							
Title:	%     XCAP-change clarification							
Source:	೫ Nokia							
Work item code	: ፝ PRESNC <b>Date:</b> ፝ <sup>03/02/2005</sup>							
Category:	<b>B</b> Release: %       Rel-6         Use one of the following categories:       Use one of the following releases:       Ph2       (GSM Phase 2)         A       (corresponds to a correction in an earlier release)       R96       (Release 1996)         B       (addition of feature),       R97       (Release 1997)         C       (functional modification of feature)       R98       (Release 1998)         D       (editorial modification)       R99       (Release 1999)         Detailed explanations of the above categories can be found in 3GPP TR 21.900.       Rel-4       (Release 5)         Rel-6       (Release 6)       Rel-7       (Release 7)							
Reason for char	nge: % The description for Event header is incomplete.							
Summary of cha	nge: # Additional text added to Event header description.							
Consequences in not approved:	if # Event header parameters are not explained.							
Clauses affected	d: 第 A.3.6.1 (the complete clause is not included)							
Other specs affected:	Y       N         X       Other core specifications       %         X       Test specifications       %         X       O&M Specifications       %							
Other comments	s: X							

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# A.3.6.1 Watcher subscribing to XCAP change in his resource list, UE in visited network - Successful subscription



Figure A.3.6.1-1: Watcher subscribing to XCAP change in his resource list

Figure A.3.6.1-1 shows a watcher subscribing to XCAP change event notification. The details of the flows as follows:

#### 1. SUBSCRIBE request (UE to P-CSCF) – see example in table A.3.6.1-1

A watcher agent in a UE wishes to get notification when his resource list gets modified via XCAP. In order to initiate a subscription to XCAP changes in RLS, the UE generates a SUBSCRIBE request indicating support for "xcap-change", together with an indication of the length of time this periodic subscription should last.

3

#### Table A.3.6.1-1: SUBSCRIBE request (UE to P-CSCF)

```
SUBSCRIBE sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
Max-Forwards: 70
P-Access-Network-Info: 3GPP-UTRAN-TDD; utran-cell-id-3gpp=234151D0FCE11
Route: <sip:pcscfl.visitedl.net:7531;lr;comp=sigcomp>, <sip:orig@scscfl.homel.net;lr>
P-Preferred-Identity: <sip:user1_public1@home1.net>
Privacy: none
From: <sip:user1_public1@home1.net>;tag=31415
To: <sip:user1_public1@home1.net>
Call-ID: b89rjhnedlrfjflslj40a222
CSeq: 123 SUBSCRIBE
Require: sec-agree
Proxy-Require: sec-agree
Security-Verify: ipsec-3gpp; q=0.1; alg=hmac-sha-1-96; spi-c=98765432; spi-s=87654321; port-
     c=8642; port-s=7531
Event: sip-profile;profile-type=application;app-id=resource-lists;document="users/user1"
Expires: 7200
Accept: application/xcap-diff+xml
Contact: <sip:[5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp>
Content-Length: 0
```

**Request-URI:** The users own SIP URI to get notifications of changes on all lists owned by the user.

- Event:This field is populated with the value "sip-profile" to specify the use of the sip-profile package to<br/>get notified of changes to XCAP documents. The "app-id" in the field identifies the XCAP<br/>application usage. The "document" further details the document that is being subscribed.
- Accept: This field is populated with the value application/xcap-diff+xml ' indicating that the UE supports the MIME type.
- To: Same as the Request-URI.

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CHANGE REQUEST								
æ	24.1	<mark>41</mark> CR	038	жrev	<b>-</b> X	Current vers	<sup>ion:</sup> 6.2.0 <sup>#</sup>	
For <u>HELP</u> on	using thi	s form, se	e bottom of th	his page or	look at th	e pop-up text	over the X symbols.	
Proposed change affects:       UICC apps       ME X Radio Access Network       Core Network								
Title:	f XCAI	P-change	corrections					
Source:	<mark>∜ Nokia</mark>	a						
Work item code: ୨	f PRE	SNC				<i>Date:</i> ೫	03/02/2005	
Category: 3	€ F Use <u>on</u> F A B C D Detaile be four	e of the fol (correction (correspor (addition c (functional (editorial n d explanati nd in 3GPP	owing categori ) ds to a correct f feature), modification o nodification) ons of the abov <u>TR 21.900</u> .	ies: tion in an ear of feature) ve categorie:	rlier releaso s can	Release: ¥ Use <u>one</u> of Ph2 e) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6 Rel-7	Rel-6 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	
Reason for chang	<b>ye:</b> ૠ Ⅰ	Errors in X	CAP change	subscriptio	n messag	ge flows.		
Consequences if not approved:	i <b>ge:</b>	Errors in s	pecification.	to sip-profi	lie.			
Clauses affected:	° # /	<mark>A.3.6.1 (th</mark>	e complete c	<mark>lause is not</mark>	included	)		
Other specs affected:	۲ ۲	N       X       Othe       X       Test       X       O&N	r core specifi specification I Specificatio	ications s ns	ж			

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Other comments:

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# A.3.6.1 Watcher subscribing to XCAP change in his resource list, UE in visited network - Successful subscription



#### Figure A.3.6.1-1: Watcher subscribing to XCAP change in his resource list

Figure A.3.6.1-1 shows a watcher subscribing to XCAP change event notification. The details of the flows as follows:

#### 1. SUBSCRIBE request (UE to P-CSCF) – see example in table A.3.6.1-1

A watcher agent in a UE wishes to get notification when his resource list gets modified via XCAP. In order to initiate a subscription to XCAP changes in RLS, the UE generates a SUBSCRIBE request indicating support for "xeap-changesip-profile", together with an indication of the length of time this periodic subscription should last.

#### Table A.3.6.1-1: SUBSCRIBE request (UE to P-CSCF)

```
SUBSCRIBE sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
Max-Forwards: 70
P-Access-Network-Info: 3GPP-UTRAN-TDD; utran-cell-id-3gpp=234151D0FCE11
Route: <sip:pcscfl.visitedl.net:7531;lr;comp=sigcomp>, <sip:orig@scscfl.homel.net;lr>
P-Preferred-Identity: <sip:user1_public1@home1.net>
Privacy: none
From: <sip:user1 public1@home1.net>;tag=31415
To: <sip:user1_public1@home1.net>
Call-ID: b89rjhnedlrfjflslj40a222
CSeq: 123 SUBSCRIBE
Require: sec-agree
Proxy-Require: sec-agree
Security-Verify: ipsec-3gpp; q=0.1; alg=hmac-sha-1-96; spi-c=98765432; spi-s=87654321; port-
     c=8642; port-s=7531
Event: sip-profile;profile-type=application;app-id=resource-lists;document="users/user1"
Expires: 7200
Accept: application/xcap-diff+xml
Contact: <sip:[5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp>
Content-Length: 0
```

**Request-URI:** The users own SIP URI to get notifications of changes on all lists owned by the user.

- **Event:** This field is populated with the value "sip-profile" to specify the use of the sip-profile package to get notified of changes to XCAP documents.
- Accept: This field is populated with the value application/xcap-diff+xml ' indicating that the UE supports the MIME type.

**To:** Same as the Request-URI.

#### 2. SUBSCRIBE request (P-CSCF to S-CSCF) - see example in table A.3.6.1-2

The P-CSCF looks up the serving network information for the public user identity that was stored during the registration procedure. The SUBSCRIBE request is forwarded to S-CSCF#1. A Route header is inserted into SUBSCRIBE request. The information for the Route header is taken from the service route determined during registration.

#### Table A.3.6.1-2: SUBSCRIBE request (P-CSCF to S-CSCF)

```
SUBSCRIBE sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP pcscfl.visitedl.net;branch=z9hG4bK120f34.1, SIP/2.0/UDP
     [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
P-Access-Network-Info:
Route: <sip:orig@scscfl.homel.net;lr>
Max-Forwards: 69
P-Asserted-Identity: <sip:user1_public1@home1.net>
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=223551024"
Privacy:
Record-Route: <sip:pcscfl.visitedl.net;lr>
Route: <sip:scscfl.homel.net;lr>
From:
To:
Call-ID:
CSeq:
Event:
Supported:
Expires:
Accept:
Contact:
Content-Length:
```

#### 3. Evaluation of initial filter criteria

The S-CSCF validates the service profile of this subscriber and evaluates the initial filter criteria. For sip:user1\_public1@home1.net the S-CSCF has originating initial Filter Criteria with Service Point Trigger of Method = SUBSCRIBE AND Event = "xcap changesip-profile" that informs the S-CSCF to route the SUBSCRIBE request to the Application Server sip:rls.home1.net.

#### 4. SUBSCRIBE request (S-CSCF to RLS) - see example in table A.3.6.1-4

The S-CSCF forwards the SUBSCRIBE request to the RLS.

#### Table A.3.6.1-4 SUBSCRIBE request (S-CSCF to RLS)

```
SUBSCRIBE sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP scscf1.homel.net;branch=z9hG4bK344a65.1, SIP/2.0/UDP
      pcscfl.visitedl.net;branch=z9hG4bK120f34.1, SIP/2.0/UDP
      [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
Max-Forwards: 68
P-Access-Network-Info:
P-Asserted-Identity: <sip:user1_public1@home1.net>, <tel:+1-212-555-1111>
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=223551024"; orig-ioi=home1.net
P-Charging-Function-Addresses: ccf=[5555::b99:c88:d77:e66]; ccf=[5555::a55:b44:c33:d22];
      ecf=[5555::1ff:2ee:3dd:4ee]; ecf=[5555::6aa:7bb:8cc:9dd]
Privacy:
Record-Route: <sip:orig@scscfl.homel.net;lr>, <sip:pcscfl.visitedl.net;lr>
Route: <sip:rls.homel.net;lr>, <sip:orig@scscf1.homel.net;lr>
From:
To:
Call-ID:
CSeq:
Event:
Supported:
Expires:
Accept:
Contact:
Content-Length:
```

P-Charging-Vector:	The S-CSCF populates the identifier of its own network to the originating Inter Operator Identifier (IOI) parameter of this header.
P-Charging-Function-Addresses:	The S-CSCF populates the P-Charging-Function-Addresses header field to be passed to the RLS.
5. Authorization	

The RLS performs the necessary authorization checks on the originator to ensure that he/she is authorized to subscribe to xcap-change. In this example this condition has been met, so the RLS sends a 200 (OK) response to the S-CSCF.

#### 6. 200 (OK) response (RLS to S-CSCF) - see example in table A.3.6.1-6

The RLS sends the response to the S-CSCF.

```
Table A.3.6.1-6: 200 (OK) response (RLS to S-CSCF)
```

```
SIP/2.0 200 OK
Via: SIP/2.0/UDP scscfl.homel.net;branch=z9hG4bK344a65.1, SIP/2.0/UDP
        pcscfl.visitedl.net;branch=z9hG4bKl20f34.1, SIP/2.0/UDP
        [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=223551024"; orig-ioi=homel.net;
        term-ioi=homel.net
Record-Route:
From:
To: <sip:userl_publicl@homel.net>;tag=151170
Call-ID:
CSeq:
Expires:
Contact:
Content-Length: 0
```

#### 7. 200 (OK) response (S-CSCF to P-CSCF) - see example in table A.3.6.1-7

The S-CSCF forwards the response to the P-CSCF.

6

SIP/2.0 200 OK
Via: SIP/2.0/UDP pcscfl.visitedl.net;branch=z9hG4bK120f34.1, SIP/2.0/UDP
[5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=223551024"
Record-Route:
From:
To:
Call-ID:
CSeq:
Expires:
Contact:
Content-Length:

Table A.3.6.1-7: 200 (OK) response (S-CSCF to P-CSCF)

#### 8. 200 (OK) response (P-CSCF to UE) - see example in table A.3.6.1-8

The P-CSCF forwards the response to the watcher agent in the UE.

```
Table A.3.6.1-8: 200 (OK) response (P-CSCF to UE)
```

```
SIP/2.0 200 OK
Via: SIP/2.0/UDP [5555::aaa:bbb:ccc:dd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
Record-Route: <sip:orig@scscfl.homel.net;lr>, <sip:pcscfl.visitedl.net:7531;lr;comp=sigcomp>
From:
To:
Call-ID:
CSeq:
Expires:
Contact:
Content-Length:
```

#### 9. NOTIFY request (RLS to S-CSCF) – see example in table A.3.6.1-9

The RLS generates a NOTIFY request including the xcap-change-diff document as a result of the SUBSCRIBE request. As this is the initial NOTIFY it contains only the new-etag, previous-etag and document-selector elements.

Table A.3.6.1-9 NOTIFY request (RLS to S-CSCF)

```
NOTIFY sip:[5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp SIP/2.0
Via: SIP/2.0/UDP rls.home1.net;branch=z9hG4bK240f34.1
Max-Forwards: 70
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=323551024"; orig-ioi=homel.net
P-Charging-Function-Addresses: ccf=[5555::b99:c88:d77:e66]; ccf=[5555::a55:b44:c33:d22];
      ecf=[5555::1ff:2ee:3dd:4ee]; ecf=[5555::6aa:7bb:8cc:9dd]
Route: <sip:scscfl.homel.net;lr>, <sip:pcscfl.visitedl.net;lr>
From: <sip:user1_@home1.net>;tag=151170
To: <sip:user1_public1@home1.net>;tag=31415
Call-ID: b89rjhnedlrfjflslj40a222
CSeq: 89 NOTIFY
Subscription-State: active; expires=7200
Event: xcap changesip-profile
Contact: <sip:rls.homel.net>
Content-Type: application/xcap-diff+xml;charset="UTF-8"
Content-Length:
<?xml version="1.0" encoding="UTF-8"?>
<xcap-diff xmlns="urn:ietf:params:xml:ns:xcap-diff"
         xcap-root="http://xcap.homel.net/services">
    <document doc-selector="resource-lists/users/user1/friends"</pre>
           new-etag="7hahsd" previous-etag="7hahsd"/>
    </document>
    <document doc-selector="resource-lists/users/user1/coworkers"</pre>
              new-etag="ffds66a" previous-etag="ffds66a">
    </document>
</xcap-diff>
```

The content of the document element contains a new-etag and a previous etag element with identical value and no list of instructions. This way it is indicated that this is the reference XML diff document. This documents has only the information about the etags and the document URI's covered by that subscription.

# 3GPP TSG-CN1 Meeting #37 Sydney, Australia, 14-18 February 2004

	CHANGE REQUEST	CR-Form-v7.1						
ж	<b>24.141</b> CR 039 <b># rev</b> - <sup>#</sup> Current v	ersion: 6.2.0 <sup>#</sup>						
For <u>HELP</u> o	on using this form, see bottom of this page or look at the pop-up te	ext over the						
Proposed change affects: UICC apps # ME Radio Access Network Core Network X								
Title:	策 IFC corrections							
Source:	육 Nokia							
Work item code	le: # PRESNC Date:	₩ <mark>03/02/2005</mark>						
Category:	<b>F Release:</b> Use <u>one</u> of the following categories:       Use <u>one</u> <b>F</b> (correction)       Ph2 <b>A</b> (corresponds to a correction in an earlier release)       R96 <b>B</b> (addition of feature),       R97 <b>C</b> (functional modification of feature)       R98 <b>D</b> (editorial modification)       R99         Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u> .       Rel-5	<ul> <li>Rel-6</li> <li>of the following releases:</li> <li>(GSM Phase 2)</li> <li>(Release 1996)</li> <li>(Release 1997)</li> <li>(Release 1998)</li> <li>(Release 1999)</li> <li>(Release 4)</li> <li>(Release 5)</li> <li>(Release 6)</li> <li>(Release 7)</li> </ul>						
Reason for cha	ange: # IFC service point triggers are incorrect							
Summary of ch	hange: # Corrections of iFC SPT in examples							
Consequences not approved:	s if # Error in specification.							
Clauses affecte	ed: # A.4.2.1, A.4.3.1, A.6.2 (not the complete clauses are sl	hown)						
Other specs affected:	YN%XXOther core specificationsXTest specificationsXO&M Specifications							
Other comment	nts: X							

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Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.



# A.4.2.1 Successful publication

Figure A.4.2.1-1: UE publishing presence information

The UE may publish the partial presence information or the full presence information about a presentity to the PS. In this example, it is assumed that the UE publishes the full presence information. Figure A.4.2.1-1 shows a UE publishing or modifying already existing presence information about a presentity. The details of the signalling flows as follows:

#### 1. PUBLISH request (UE to P-CSCF) - see example in table A.4.2.1-1

A PUA in a UE wishes to publish presence information. To initiate the publication, the UE generates a PUBLISH request according to RFC 3903 [23] containing the presence information that it wishes to publish.

The message body in the PUBLISH request that carries the PUA presence update state is formed as indicated in draft-ietf-simple-presence-data-model [44], RFC 3863 [21], draft-ietf-simple-rpid [26], draft-ietf-simple-cipid[32], and draft-ietf-simple-prescaps-ext [25].

#### Table A.4.2.1-1: PUBLISH request (UE to P-CSCF)

```
PUBLISH sip:user1 public1@home1.net SIP/2.0
Via: SIP/2.0/UDP [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKnashds7
Max-Forwards: 70
P-Access-Network-Info: 3GPP-UTRAN-TDD; utran-cell-id-3gpp=234151D0FCE11
Route: <sip:pcscfl.visitedl.net:7531;lr;comp=sigcomp>, <sip:orig@scscfl.homel.net;lr>
P-Preferred-Identity: <sip:user1_public1@home1.net>
Privacy: none
From: <sip:user1_public1@home1.net>;tag=31415
To: <sip:user1_public1@home1.net>
Call-ID: b89rjhnedlrfjflslj40a222
CSeq: 61 PUBLISH
Require: sec-agree
Proxy-Require: sec-agree
Security-Verify: ipsec-3qpp; q=0.1; alg=hmac-sha-1-96; spi-c=98765432; spi-s=87654321; port-
     c=8642; port-s=7531
Event: presence
Expires: 7200
Content-Type: application/pidf+xml
Content-Length: (...)
<?xml version="1.0" encoding="UTF-8"?>
   <presence xmlns="urn:ietf:params:xml:ns:pidf"</pre>
             xmlns:es="urn:ietf:params:xml:ns:pidf:status:rpid-status"
             xmlns:et="urn:ietf:params:xml:ns:pidf:rpid-tuple"
             xmlns:ep="urn:ietf:params:xml:ns:pidf:rpid-person"
             xmlns:dmp="urn:ietf:params:xml:ns:pidf:person"
             xmlns:pcp="urn:ietf:params:xml:ns:pidf:servcaps"
             xmlns:ci="urn:ietf:params:xml:ns:pidf:cipid"
             entity="pres:user2_public1@home2.net">
     <tuple id="a8098a.672364762364">
       <status>
         <basic>open</basic>
         <es:privacy><text/></es:privacy>
         <es:status-icon>http://example.com/~user2/icon.gif</es:status-icon>
       </status>
       <et:class>sip</et:class>
       <pcp:video>false</pcp:video>
       <pcp:audio>true</pcp:audio>
       <contact priority="0.8">sip:user2_public1@home2.net</contact>
       <note xml:lang="en">Don't Disturb Please!</note>
       <note xml:lang="fr">Ne derangez pas, s'il vous plait</note>
       <timestamp>2003-08-27T11:49:29Z</timestamp>
     </tuple>
     <tuple id="jklhgf9788934774.78">
       <status>
         <basic>open</basic>
       </status>
       <et:class>assistant</et:class>
       <et:relationship>assistant</et:relationship>
       <contact priority="1.0">tel:+1-212-555-2222</contact>
       <note xml:lang="en">She's my secretary</note>
       <timestamp>2003-08-27T11:49:29Z</timestamp>
     </tuple>
     <dmp:person>
       <ep:class>presentity</ep:class>
       <ci:homepage>http://example.com/~user2</ci:homepage>
       <ci:card>http://example.com/~user2/card.vcd</ci:card>
       <dmp:status>
```

Error! No text of specified style in document.

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```
<ep:place-type until="2003-08-27T17:30:00Z">office</ep:place-type>
</dmp:status>
</dmp:person>
```

</presence>

**Request-URI:** Public user identity whose presence information the PUA intends to publish.

**Event:** This field is populated with the value "presence" to specify the use of the presence package.

To: Same as the Request-URI.

**Content-Type:** Set to the value 'application/pidf+xml'.

#### 2. PUBLISH request (P-CSCF to S-CSCF) - see example in table A.4.2.1-2

P-CSCF looks up the serving network information for the public user identity that was stored during the registration procedure. The PUBLISH request is forwarded to the S-CSCF. A Route header is inserted into PUBLISH request. The information for the Route header is taken from the service route determined during registration.

#### Table A.4.2.1-2: PUBLISH request (P-CSCF to S-CSCF)

```
PUBLISH sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP pcscfl.homel.net;branch=z9hG4bK240f34.1, SIP/2.0/UDP
      [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKnashds7
P-Access-Network-Info:
Max-Forwards: 69
P-Asserted-Identity: <sip:user1_public1@home1.net>
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=023551024"
Privacy:
Route: <sip:orig@scscf1.home1.net;lr>
From:
То:
Call-ID:
CSeq:
Event:
Expires:
Content-Type:
Content-Length:
(....)
```

#### 3. Evaluation of initial filter criteria

S-CSCF validates the service profile of the publisher and evaluates the initial filter criteria. For user1\_public1@home1.net S-CSCF#1 has originating initial Filter Criteria with Service Points of Interest-Trigger of Method = PUBLISH AND Event = "presence" AND To Request-URI = "sip:user1\_public1@home1.net" that informs the S-CSCF to route the PUBLISH request to the PS ps.home1.net.

-----NEXT CHANGE-----

# A.4.3.1 Successful refresh



Figure A.4.3.1-1: UE updating presence information

Figure A.4.3.1-1 shows an UE refreshing the presence information about a presentity. The details of the signalling flows are as follows:

#### 1. PUBLISH request (UE to P-CSCF) – see example in table A.4.3.1-1

A PUA in a UE wishes to refresh already existing presence information. To initiate the publication, the UE generates a PUBLISH request according to RFC 3903 [23].

#### Table A.4.3.1-1: PUBLISH request (UE to P-CSCF)

```
PUBLISH sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKnashds7
Max-Forwards: 70
P-Access-Network-Info: 3GPP-UTRAN-TDD; utran-cell-id-3gpp=234151D0FCE11
Route: <sip:pcscfl.visitedl.net:7531;lr;comp=sigcomp>, <sip:orig@scscfl.homel.net;lr>
P-Preferred-Identity: <sip:user1_public1@home1.net>
Privacy: none
From: <sip:user1_public1@home1.net>;tag=31415
To: <sip:user1_public1@home1.net>
Call-ID: b89rjhnedlrfjflslj40a111
CSeq: 61 PUBLISH
Require: sec-agree
Proxy-Require: sec-agree
Security-Verify: ipsec-3gpp; q=0.1; alg=hmac-sha-1-96; spi-c=98765432; spi-s=87654321; port-
      c=8642; port-s=7531
Event: presence
SIP-If-Match: 123xy
Expires: 7200
Content-Length: 0
```

Request-URI: Public user identity whose presence information the PUA intends to publish.

**Event:** This field is populated with the value "presence" to specify the use of the presence package.

**To:** Same as the Request-URI.

**SIP-If-Match:** This field is populated with the entity-tag earlier provided by the PS in the SIP-ETag header field of the previous 200(OK) response and is used as a versioning precondition to the PUBLISH refresh.

#### 2. PUBLISH request (P-CSCF to S-CSCF) - see example in table A.4.3.1-2

P-CSCF looks up the serving network information for the public user identity that was stored during the registration procedure. The PUBLISH request is forwarded to the S-CSCF. A Route header is inserted into PUBLISH request. The information for the Route header is taken from the service route determined during registration.

#### Table A.4.3.1-2: PUBLISH request (P-CSCF to S-CSCF)

```
PUBLISH sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP pcscfl.homel.net;branch=z9hG4bK240f34.1, SIP/2.0/UDP
      [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKnashds7
P-Access-Network-Info:
Max-Forwards: 69
P-Asserted-Identity: <sip:user1_public1@home1.net>
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=023551024"
Privacy:
Route: <sip:orig@scscf1.home1.net;lr>
From:
To:
Call-ID:
CSeq:
Event:
SIP-If-Match:
Expires:
Content-Length:
```

P-Charging-Vector: The P-CSCF populates the icid parameter with a globally unique value.

#### 3. Evaluation of initial filter criteria

S-CSCF#1 validates the service profile of this publisher and evaluates the initial filter criteria. For user1\_public1@home1.net the S-CSCF has originating initial Filter Criteria with Service Points of InterestTrigger of Method = PUBLISH AND Event = "presence" AND To-Request-URI = "sip:user1\_public1@home1.net" that informs the S-CSCF to route the PUBLISH request to the PS ps.home1.net.

-----NEXT CHANGE-----

A.6.2 PUA subscribing to watcher list and receiving a notification of an already pending watcher subscription followed by a notification of a subscription from a new watcher not already in the watcher list

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Figure A.6.2-1: PUA subscribing to watcher list and receiving a notification of an already pending watcher subscription followed by a notification of a subscription from a new watcher not already in the watcher list

Figure A.6.2-1 shows a PUA subscribing to watcher list and receiving a notification of an already pending watcher subscription followed by a notification of a subscription from a new watcher not already in the watcher list. In this

example the default watcherinfo subscription filtering policy is applied meaning that a partial state of a watcher-info document is transported in the notifys. The details of the signalling flows as follows:

#### 1. SUBSCRIBE request (UE to P-CSCF) – see example in table A.6.2-1

The presentity wishes to watch his own watcher information, therefore he subscribes for the watcher information template-package of presence. The UE generates a SUBSCRIBE request containing the presence.winfo event, together with an indication of the length of time this periodic subscription should last.

#### Table A.6.2-1: SUBSCRIBE request (UE to P-CSCF)

```
SUBSCRIBE sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
Max-Forwards: 70
P-Access-Network-Info: 3GPP-UTRAN-TDD; utran-cell-id-3gpp=234151D0FCE11
Route: <sip:pcscfl.visitedl.net:7531;lr;comp=sigcomp>, <sip:orig@scscfl.homel.net;lr>
P-Preferred-Identity: <sip:user1_public1@home1.net>
Privacy: none
From: <sip:user1_public1@home1.net>;tag=31415
To: <sip:user1_public1@home1.net>
Call-ID: b89rjhnedlrfjflslj40a222
CSeq: 123 SUBSCRIBE
Require: sec-agree
Proxy-Require: sec-agree
Security-Verify: ipsec-3gpp; q=0.1; alg=hmac-sha-1-96; spi-c=98765432; spi=87654321; port-
     c=8642; port-s=7531
Event: presence.winfo
Expires: 7200
Accept: application/watcherinfo+xml
Contact: <sip:[5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp>
Content-Length: 0
```

- **Request URI:** Public user identity whose events the subscriber subscribes to. In this case the Public User Identity of the presentity in SIP URI format.
- **Event:** This field is populated with the value "presence.winfo" to specify the use of the watcher information template-package of presence.
- Accept: This field is populated with the value 'application/watcherinfo+xml' indicating that the UE supports this body type for notification.
- **To:** Same as the Request-URI.

#### 2. SUBSCRIBE request (P-CSCF to S-CSCF) – see example in table A.6.2-2

The P-CSCF looks up the serving network information for the public user identity that was stored during the registration procedure. The SUBSCRIBE request is forwarded to the S-CSCF. A Route header is inserted into SUBSCRIBE request.

#### Table A.6.2-2: SUBSCRIBE request (P-CSCF to S-CSCF)

```
SUBSCRIBE sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP pcscfl.visitedl.net;branch=z9hG4bK120f34.1 ,SIP/2.0/UDP
      [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
P-Access-Network-Info:
Max-Forwards: 69
P-Asserted-Identity: <sip:user1_public1@home1.net>
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=023551024"
Privacy:
Route: <sip:orig@scscfl.homel.net;lr>
Record-Route: <sip:pcscfl.visitedl.net;lr>
From:
To:
Call-ID:
CSeq:
Event:
Expires:
Accept:
Contact:
Content-Length:
```

#### 3. Evaluation of initial filter criteria

The S-CSCF validates the service profile of this subscriber and evaluates the initial filter criteria. For sip:user1\_public1@home1.net the S-CSCF has originating initial Filter Criteria with Service Point Trigger of Method = SUBSCRIBE AND Event = "presence.winfo" that informs the S-CSCF to route the SUBSCRIBE request to the Application Server sip:ps.home1.net.

#### 4. SUBSCRIBE request (S-CSCF to PS) – see example in table A.6.2-4

The S-CSCF forwards the SUBSCRIBE request to the PS.

#### Table A.6.2-4: SUBSCRIBE request (S-CSCF to PS)

```
SUBSCRIBE sip:user1_public1@home1.net SIP/2.0
Via: SIP/2.0/UDP scscf1.home1.net;branch=z9hG4bK344a65.1, SIP/2.0/UDP
      pcscfl.visitedl.net;branch=z9hG4bK120f34.1, SIP/2.0/UDP
      [5555::aaa:bbb:ccc:ddd]:1357;comp=sigcomp;branch=z9hG4bKehuefdam
P-Access-Network-Info:
Max-Forwards: 68
P-Asserted-Identity: <sip:user1_public1@home1.net>, <tel:+1-212-555-1111>
P-Charging-Vector: icid-value="AyretyU0dm+602IrT5tAFrbHLso=023551024"; orig-ioi=homel.net
P-Charging-Function-Addresses: ccf=[5555::b99:c88:d77:e66]; ccf=[5555::a55:b44:c33:d22];
      ecf=[5555::1ff:2ee:3dd:4ee]; ecf=[5555::6aa:7bb:8cc:9dd]
Privacy:
Route: <sip:ps.homel.net;lr>, <sip:scscf1.homel.net;lr>
Record-Route: <sip:scscfl.homel.net;lr>, <sip:pcscfl.visitedl.net;lr>
From:
To:
Call-ID:
CSeq:
Event:
Expires:
Accept:
Contact:
Content-Length:
```

P-Charging-Vector:	The S-CSCF inserts the originating Inter Operator Identifier (IOI) parameter received and populates the identifier of its own network to the originating Inter Operator Identifier (IOI) parameter of this header.
P-Charging-Function-Addresses:	The S-CSCF stores the P-Charging-Function-Addresses header field and passes this header to the PS.

#### 5. Authorization

The PS performs the necessary authorization checks on the originator. In this example, the originator is the owner of the watcher information, so he/she is authorized to see the full watcher information.

In other examples (when the originator is not the owner of the watcher information) subscribers are only allowed to monitor the state of their own subscription, which means that they will receive notifications only containing the state of their own subscription. This requires that a terminating initial Filter Criteria with Service Point Trigger of Method = SUBSCRIBE AND Event = "presence.winfo" AND To =-"sip:user1\_public1@home1.net" has been defined for the user sip:user1\_public1@home1.net.

# 3GPP TSG-CN1 Meeting #37 Sydney, Australia, 14-18 February 2004

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#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. Below is a brief summary:

1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# \*\*\*\* 1<sup>st</sup> change \*\*\*\*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.002: "Network architecture".
- [3] 3GPP TS 23.003: "Numbering, addressing and identification".
- [4] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".
- [4A] 3GPP TS 23.107: "Quality of Service (QoS) concept and architecture".
- [5] 3GPP TS 23.218: "IP Multimedia (IM) Session Handling; IM call model".
- [6] 3GPP TS 23.221: "Architectural requirements".
- [7] 3GPP TS 23.228: "IP multimedia subsystem; Stage 2".
- [8] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core Network protocols; Stage 3".
- [8A] 3GPP TS 24.141: "Presence service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".
- [8B] 3GPP TS 24.147: "Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".
- [9] 3GPP TS 25.304: "UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode".
- [9A] 3GPP TS 25.331: "Radio Resource Control (RRC); Protocol Specification".
- [10] 3GPP TS 26.235: "Packet switched conversational multimedia applications; Default codecs".
- [10A] 3GPP TS 27.060: "Mobile Station (MS) supporting Packet Switched Services".
- [11] 3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting Packet Based Services and Packet Data Networks (PDN)".
- [11A] 3GPP TS 29.162: "Interworking between the IM CN subsystem and IP networks".
- [12] 3GPP TS 29.207: "Policy control over Go interface".
- [13] 3GPP TS 29.208: "End to end Quality of Service (QoS) signalling flows".
- [13A] 3GPP TS 29.209: "Policy control over Gq interface".
- [14] 3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents".

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- [15] 3GPP TS 29.229: "Cx and Dx Interfaces based on the Diameter protocol, Protocol details".
- [16] 3GPP TS 32.240: "Telecommunication management; Charging management; Charging architecture and principles".
- [17] 3GPP TS 32.260: "Telecommunication management; Charging management; IP Multimedia Subsystem (IMS) charging".
- [18] 3GPP TS 33.102: "3G Security; Security architecture".
- [19] 3GPP TS 33.203: "Access security for IP based services".
- [19A] 3GPP TS 33.210: "IP Network Layer Security".
- [20] 3GPP TS 44.018: "Mobile radio interface layer 3 specification, Radio Resource Control Protocol".
- [20A] RFC 2401 (November 1998): "Security Architecture for the Internet Protocol".
- [20B] RFC 1594 (March 1994): "FYI on Questions and Answers to Commonly asked "New Internet User" Questions".
- [20C] RFC 2403 (November 1998) "The Use of HMAC-MD5-96 within ESP and AH".
- [20D] RFC 2404 (November 1998) "The Use of HMAC-SHA-1-96 within ESP and AH".
- [20E] RFC 2462 (November 1998): "IPv6 Address Autoconfiguration".
- [21] RFC 2617 (June 1999): "HTTP Authentication: Basic and Digest Access Authentication".
- [22] draft-ietf-iptel-rfc2806bis-09 (June 2004): "The tel URI for Telephone Numbers".

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

- [23] RFC 2833 (May 2000): "RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals".
- [24] RFC 3761 (April 2004): "The E.164 to Uniform Resource Identifiers (URI) Dynamic Delegation Discovery System (DDDS) Application (ENUM)".
- [25] RFC 2976 (October 2000): "The SIP INFO method".
- [25A] RFC 3041 (January 2001): "Privacy Extensions for Stateless Address Autoconfiguration in IPv6".
- [26] RFC 3261 (June 2002): "SIP: Session Initiation Protocol".
- [27] RFC 3262 (June 2002): "Reliability of provisional responses in Session Initiation Protocol (SIP)".
- [28] RFC 3265 (June 2002): "Session Initiation Protocol (SIP) Specific Event Notification".
- [29] RFC 3311 (September 2002): "The Session Initiation Protocol (SIP) UPDATE method".
- [30] RFC 3312 (October 2002): "Integration of resource management and Session Initiation Protocol (SIP)".
- [31] RFC 3313 (January 2003): "Private Session Initiation Protocol (SIP) Extensions for Media Authorization".
- [32] RFC 3320 (March 2002): "Signaling Compression (SigComp)".
- [33] RFC 3323 (November 2002): "A Privacy Mechanism for the Session Initiation Protocol (SIP)".
- [34] RFC 3325 (November 2002): "Private Extensions to the Session Initiation Protocol (SIP) for Network Asserted Identity within Trusted Networks".
- [34A] RFC 3326 (December 2002): "The Reason Header Field for the Session Initiation Protocol (SIP)".
- [35] RFC 3327 (December 2002): "Session Initiation Protocol Extension Header Field for Registering Non-Adjacent Contacts".

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[36]		RFC 3515 (April 2003): "The Sessi	on Initiation Proto	col (SIP) REFER method".
[37]		RFC 3420 (November 2002): "Inter	rnet Media Type m	nessage/sipfrag".
[38]		RFC 3608 (October 2003): "Session Route Discovery During Registration	n Initiation Protoco	ol (SIP) Extension Header Field for Service
[39]		draft-ietf-mmusic-sdp-new-13 (Mag	y 2003): "SDP: Se	ssion Description Protocol".
Edit	or's note: Th	e above document cannot be formall	y referenced until	it is published as an RFC.
[40]		RFC 3315 (July 2003): "Dynamic H	lost Configuration	Protocol for IPv6 (DHCPv6)".
[41]		RFC 3319 (July 2003): "Dynamic H Initiation Protocol (SIP) Servers".	Iost Configuration	Protocol (DHCPv6) Options for Session
[42]		RFC 3485 (February 2003): "The S Protocol (SDP) static dictionary for	ession Initiation Provident Signaling Compre	rotocol (SIP) and Session Description ession (SigComp)".
[43]		RFC 3680 (March 2004): "A Sessio	on Initiation Protoc	col (SIP) Event Package for Registrations".
[44]		Void.		
[45]		Void.		
[46]		Void.		
[47]		Void.		
[48]		RFC 3329 (January 2003): "Securit (SIP)".	y Mechanism Agre	eement for the Session Initiation Protocol
[49]		RFC 3310 (September 2002): "Hyp Authentication and Key Agreement	ertext Transfer Pro (AKA)".	otocol (HTTP) Digest Authentication Using
[50]		RFC 3428 (December 2002): "Sess	ion Initiation Prote	ocol (SIP) Extension for Instant Messaging".
[51]		Void.		
[52]		RFC 3455 (January 2003): "Private Protocol (SIP) for the 3rd-Generation	Header (P-Header on Partnership Pro	r) Extensions to the Session Initiation ject (3GPP)".
[53]		RFC 3388 (December 2002): "Grou	ping of Media Lin	nes in Session Description Protocol".
[54]		RFC 3524 (April 2003): "Mapping	of Media Streams	to Resource Reservation Flows".
[55]		RFC 3486 (February 2003): "Comp	pressing the Session	n Initiation Protocol (SIP)".
[56]		RFC 3556 (July 2003): "Session De Control Protocol (RTCP) Bandwidt	escription Protocol	(SDP) Bandwidth Modifiers for RTP
[56A	A]	RFC 3581 (August 2003): "An External Response Routing".	ension to the Session	on Initiation Protocol (SIP) for Symmetric
[56E	3]	RFC 3841 (August 2004): "Caller H	Preferences for the	Session Initiation Protocol (SIP)"
[57]		ITU-T Recommendation E.164: "T	he international pu	blic telecommunication numbering plan".
[58]		draft-ietf-sip-session-timer-15 (Nov Protocol (SIP)".	/ember 2004): "Ses	ssion Timers in the Session Initiation
Edit	or's note: Th	e above document cannot be formall	y referenced until	it is published as an RFC.
[59]		RFC 3892 (September 2004): "The	Session Initiation	Protocol (SIP) Referred-By Mechanism".
[60]		RFC 3891 (September 2004): "The	Session Inititation	Protocol (SIP) "Replaces" Header".

[61] RFC 3911 (October 2004): "The Session Initiation Protocol (SIP) "Join" Header".

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- [62] RFC 3840 (August 2004): "Indicating User Agent Capabilities in the Session Initiation Protocol (SIP)"
- [63] RFC 3861 (August 2004): "Address Resolution for Instant Messaging and Presence".
- [70] RFC 3903 (October 2004): "An Event State Publication Extension to the Session Initiation Protocol (SIP)".
- [71] Void.
- [72] RFC 3857 (August 2004): "A Watcher Information Event Template Package for the Session Initiation Protocol (SIP)".
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- [75] draft-ietf-simple-event-list-04 (June 2003): "A Session Initiation Protocol (SIP) Event Notification Extension for Collections".

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[77] draft-ietf-sipping-config-framework-05 (October 2004): "A Framework for Session Initiation Protocol User Agent Profile Delivery".draft ietf simple xcap package 01 (February 2004): "A Session Initiation Protocol (SIP) Event Package for Modification Events for the Extensible Markup Language (XML) Configuration Access Protocol (XCAP) Managed Documents".

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[79] draft-ietf-rohc-sigcomp-sip-01 (February 2004): "Applying Signaling Compression (SigComp) to the Session Initiation Protocol (SIP)".

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

# \*\*\*\*\* next change \*\*\*\*\*

## A.2.1 User agent role

### A.2.1.1 Introduction

This subclause contains the ICS proforma tables related to the user role. They need to be completed only for UA implementations:

Prerequisite: A.2/1 - - user agent role.

# A.2.1.2 Major capabilities

Table	A.4:	Major	capabilit	ies
-------	------	-------	-----------	-----

Capabilities within man protocol         coldent behaviour for registration?         [26] subclause 10.3         o         cd3           2         registration of multiple contracts for a single address of record         [26] subclause 13.2         o         o         o           3         client behaviour for INVITE requests?         [26] subclause 13.2         c18         c18         c18           4         server behaviour for INVITE requests?         [26] subclause 13.2         c18         c18         c18           5         session release?         [26] subclause 13.2         c18         c18         c18           6         timestamping of requests?         [26] subclause 22.2         c3.4         c3.4         c3.4           8         authentication between UA and DXP         [26] 20.28, 22.3         o         o         o           9         server handling of merged requests and registrat?         [26] subclause 20.17         o         o         o           10         client thandling of merged requests and regionses         [26] subclause 20.17         o         o         o           11         insertion of date in requests and regionses         [26] subclause 20.4         o         o         o           12         downloading of aleriting information?         [26] subclause 20	ltem	Does the implementation support	Reference	RFC status	Profile status
1         client behaviour for registration?         [26] subclause 10.2         o         c3           2         registration of multiple contracts for a single address of record         [26] subclause 13         o         o           28         initiating a session?         [26] subclause 13         o         o         o           28         initiating a session?         [26] subclause 13.2         c18         c18         c18           4         server behaviour for INVTE requests?         [26] subclause 2.6.1         o         o         o           5         session release?         [26] subclause 2.2.1         c34         c18         c18           6         timestamping of requests?         [26] subclause 2.2.2         c34         c34           7         authentication between UA and proxy?         [26] 20.28, 22.3         o         o           7         due to forking?         [26] subclause 20.17         o         o           10         client handing of merged requests and         [26] subclause 20.4         o         o           11         insettion of date in requests and         [26] subclause 20.4         o         o           12         downoading of alerting information?         [26] subclause 20.4         o         o		Capabilities within main protocol			
2         registrator         [26] subclause 10.3         0         c4           2A         registrator of multiple contracts for a single address of record         [26] subclause 13.2         c16         0           3         client behaviour for INVITE requests?         [26] subclause 13.2         c18         c18           4         server behaviour for INVITE requests?         [26] subclause 13.2         c18         c18           5         setsion releaser?         [26] subclause 15.1         c18         c18           6         timestamping of requests?         [26] subclause 22.2         c34         c34           7         authentication between UA and V2 [28] subclause 22.2         o         n/a         n/a           7         authentication between UA and prox?         [26] subclause 20.17         o         o         o           8.4         authentication between UA and prox?         [26] subclause 20.17         o         o         o           9         server handling of multiple responses         [26] subclause 20.4         o         o         o           10         client handling of multiple responses in SIP?         [27]         c19         c18         c18           11         insertion of date in requests and Inforegrame additin request and Info Information?	1	client behaviour for registration?	[26] subclause 10.2	0	c3
2A         registration of multiple contacts for a single address of record         [26] subclause 13         0         0           2B         initiating a session?         [26] subclause 13         0         0           3         client behaviour for INVITE requests?         [26] subclause 13.2         c18         c18           5         session release?         [26] subclause 13.2         c18         c18           5         session release?         [26] subclause 2.2         c3.4         c34           6         timestamping of requests?         [26] subclause 2.2.2         c3.4         c34           8         authentication between UA and proxy?         [26] 20.28, 22.3         o         o           8         authentication between UA and proxy?         [26] 20.28, 22.3         o         o           10         client handling of merged requests and registrar?         [26] 13.2.2.4         m         m           11         insertion of date in requests and due to forking?         [26] subclause 20.17         o         o           12         downloading of aleriting information?         [26] subclause 20.4         o         o           13         the SIP DNFO method?         [26]         o         n/a           14         reliability of provisional re	2	registrar?	[26] subclause 10.3	0	c4
single address of record         [26]         unknown         [26]         [27]         [26]         [27]         [27]         [27]         [28]         [28]         [28]         [28]         [28]         [28]         [28]         [28]         [28]         [28]	 2A	registration of multiple contacts for a	[26] 10.2.1.2. 16.6	0	0
28         initiating a session?         [26] subclause 13         0         0           3         citem behaviour for INVITE requests?         [26] subclause 13.3         c18         c18           4         server behaviour for INVITE requests?         [26] subclause 13.3         c18         c18           5         session release?         [26] subclause 82.6.1         0         0           7         authentication between UA and UA?         [26] subclause 22.2         c34         c34           8         authentication between UA and Part [26] subclause 22.2         c34         c34           8         authentication between UA and prox?         [26] subclause 22.7         m         m           8         authentication between UA and prox?         [26] subclause 22.7         m         m           10         clent handling of merged requests due to totking?         m         m         m           11         insertion of date in requests and responses         [26] subclause 20.17         o         o           12         downloading of alerting information?         [26] subclause 20.4         o         o         o           13         the SIP INFO method?         [25]         o         n/a         n           14         reliability of provision		single address of record	[_0],	•	·
3         Client behaviour for INVITE requests?         126 subclause 13.3         c18         c18           4         server behaviour for INVITE requests?         126 subclause 13.3         c18         c18         c18           5         session release?         126 subclause 15.1         c18         c18         c18           6         timestamping of requests?         126 subclause 22.2         c34         c34           7         authentication between UA and UA?         [26] subclause 22.2         o         n/a           7         authentication between UA and proxy?         [26] 20.28, 22.3         o         o           8         authentication between UA and proxy?         [26] 3.2.2.4         m         m           9         server handling of multiple responses         [26] 13.2.2.4         m         m           10         client handling of multiple responses         [26] subclause 20.17         o         o           11         insertion of date in requests and responses in [27]         [26] subclause 20.4         o         o           12         downloading of alering information?         [26] subclause 20.4         o         o           13         the SIP INFO method?         [25]         o         n/a           14 <td< td=""><td>2B</td><td>initiating a session?</td><td>[26] subclause 13</td><td>0</td><td>0</td></td<>	2B	initiating a session?	[26] subclause 13	0	0
4         server behaviour for INVITE requests?         [26] subclause 13.3         c18         c18           5         session release?         [26] subclause 15.1         c18         c18           6         timestamping of requests?         [26] subclause 22.1         c34         c34           7         authentication between UA and UA?         [26] subclause 22.2         c34         c34           8         authentication between UA and proxy?         [26] subclause 22.3         o         o           8         authentication between UA and proxy?         [26] subclause 22.3         o         o           9         server handling of metged requests due to foking?         [26] 13.2.2.4         m         m         m           10         client handling of alerting information?         [26] subclause 20.17         o         o         o           11         insertion of date in requests and responses in SIP?         [26]         o         n/a         n           12         downloading of alerting information?         [26] subclause 20.4         o         o         o           13         the SIP IPC method?         [26]         o         n/a         n           14         reliability of provisional responses in SIP?         [36]         o         <	3	client behaviour for INVITE requests?	[26] subclause 13 2	c18	c18
5         session release?         126 subclause 12.1         c18         c18           6         timestamping of requests?         [26] subclause 12.6.1         0 <td>4</td> <td>server behaviour for INVITE requests?</td> <td>[26] subclause 13.3</td> <td>c18</td> <td>c18</td>	4	server behaviour for INVITE requests?	[26] subclause 13.3	c18	c18
6         timestamping of requests?         [26] subclause 8.2.6.1         0         0           7         authentication between UA and UA?         [26] subclause 22.2         C34         C34           8         authentication between UA and registrar?         [26] subclause 22.2         0         n/a           8.4         authentication between UA and proxy?         [26] subclause 22.2         0         n/a           9         server handling of merged requests due to forking?         [26] subclause 22.2         m         m         m           10         client handling of multiple responses         [26] 13.2.2.4         m         m         m           11         insertion of date in requests and responses?         [26] subclause 20.47         o         o         o           12         downloading of alerting information?         [26] subclause 20.4         o         o         o           13         the SIP INFO method?         [36]         o         c.33         o         c.33           14         reliability of provisional responses in SIP?         [27]         c.19         c.18           15         the SIP UPDATE method?         [36]         o         c.33           16         integration of resource management authorization?         [28]	5	session release?	[26] subclause 15.1	c18	c18
7authentication between UA and UA?126 subclause 22.2034C348authentication between UA and registrar?126 subclause 22.20n/a8Aauthentication between UA and prox?126 subclause 22.20n/a9server handling of mutgiel responses due to forking?126 subclause 20.170010client handling of mutgiel responses due to forking?126 subclause 20.170011insertion of date in requests and responses?126 subclause 20.170012downloading of alerting information?126 subclause 20.170013the SIP INFO method?1250n/a14reliability of provisional responses in SIP?137c19c1815the REFER method?1360c3316integration of resource management and SIP?1310c1421the SIP UPDATE method?1280c1322acting as the notifier of event information?1280c1423acting as the subscriber to event information?128c2c1623acting as the subscriber to event information?1310c624session inflation protocol extension header field tor registering non-adjacent contacts?133c9n/a24acting as the subscriber to event information?133c9n/a25privacy mechanism for the Session 	6	timestamping of requests?	[26] subclause 8 2 6 1	0	0
B       authentication between UA and registrar?       I20 joundate 22.2 o       O       n'a         8A       authentication between UA and proxy?       [26] subclause 22.2 o       O       n'a         9       server handling of merged requests due to forking?       [26] subclause 20.2 (26] subclause 20.17       O       O         10       client handling of multiple responses due to forking?       [26] subclause 20.17       O       O         11       insertion of date in requests and responses?       [26] subclause 20.4       O       O         12       downloading of alerting information?       [26] subclause 20.4       O       O         12       downloading of alerting information?       [26] subclause 20.4       O       O         14       SIP reliability of provisional responses in SIP?       [27]       C19       C18         15       the REFER method?       [30]       C       C19       C18         19       SIP extensions for media authorization?       [28]       O       c14         20       SIP pedific event notification?       [28]       O       c14         21       the use of NOTEV to establish a dialog?       [28] 4.2       O       n/a         22       acting as the notifier of event inintermation Protocol stension hinitiation Pr	7	authentication between LIA and LIA?	[26] subclause 22.2	c34	c34
0       authentication between UA and proxy?       [26] 20.28, 22.3       0       0         9       server handling of multiple responses due to forking?       [26] 3.2.2.4       m       m         10       client handling of multiple responses due to forking?       [26] subclause 20.17       0       0         11       insertion of date in requests and responses?       [26] subclause 20.17       0       0         12       downloading of alerting information?       [26] subclause 20.17       0       0         13       the SIP INFO method?       [26]       0       n/a         14       reliability of provisional responses in SIP?       [27]       C19       c18         15       the REFER method?       [36]       0       c33         16       integration of resource management and SIP?       [31]       0       c14         19       SIP exensions for media authorization?       [28]       0       c13         17       the SIP UPDATE method?       [28]       0       c14         20       SIP specific event notification?       [28]       0       c13         21       the use of NOTIFY to establish a dialog?       [28]       c2       c16         23       acting as the subscriber to event informati	8	authentication between UA and	[26] subclause 22.2	0	n/a
8A       authentication between UA and proxy?       [26] 20.28, 22.3       o       o         9       server handling of merged requests due to forking?       [26] 3.2.2.2       m       m         10       client handling of multiple responses due to forking?       [26] 13.2.2.4       m       m         11       insertion of date in requests and responses?       [26] 13.2.2.4       m       m         11       insertion of date in requests and responses?       [26] subclause 20.4       o       o         12       downloading of alerting information?       [26] subclause 20.4       o       o         13       the SIP INFO method?       [25]       o       n/a         14       reliability of provisional responses in SIP?       [27]       c19       c18         15       the REFER method?       [36]       o       c33       c18         16       integration of resource management and SIP?       [30]       c19       c18         21       the use of NOTIFY to establish a dialog?       [31]       o       c14         22       acting as the notifier of event information?       [28]       c2       c16         22       acting as the notifier of event information?       [28]       c2       c16         23<	0	registrar?		0	n/α
9     server handling of merged requests due to forking?     [26] 3.2.2.4     m     m       10     client handling of multiple responses due to forking?     [26] 3.2.2.4     m     m       11     insertion of date in requests and responses?     [26] subclause 20.17     o     o       12     downloading of alerting information?     [26] subclause 20.17     o     o       13     the SIP INFO method?     [26] subclause 20.4     o     o       14     reliability of provisional responses in SIP?     [27]     c19     c18       15     the REFER method?     [36]     o     c33       16     integration of resource management and SIP?     [31]     o     c14       20     SIP specific event notification?     [28]     o     c13       21     the use of NOTIFY to estabilish a dialog?     [28] 4.2     o     n/a       22     acting as the notifier of event information?     [28]     c2     c16       23     acting as the subscriber to event information?     [33]     o     m       24     session initiation protocol extension header field for registering non-adjacent contacts?     [33]     c9     c11       25     private extensions to the Session Initiation Protocol (SIP)?     [33]     c9     c12       26     a pri	84	authentication between LIA and proxy?	[26] 20 28 22 3	0	0
10       to forking?       Image: marger requests and clear the sponses       [26] 13.2.2.4       m       m         11       insertion of date in requests and responses of the sponses?       [26] 13.2.2.4       m       m         11       insertion of date in requests and responses of the sponses?       [26] subclause 20.4       o       o         12       downloading of alering information?       [26] subclause 20.4       o       o         13       the SIP INFO method?       [25]       o       n/a         14       reliability of provisional responses in [27]       c19       c18         15       the REFER method?       [36]       o       c33         16       integration of resource management and SIP?       c19       c14         20       SIP extensions for media authorization?       [31]       o       c14         20       SIP extensions for media authorization?       [28]       o       c13         21       the use of NOTIFY to establish a diag?       [28]       c2       c16         21       the use of NOTIFY to establish a diag?       [28]       c2       c16         22       acting as the notifier of event information?       [28]       c2       c16         23       acting as the notifier of e	9	server handling of merged requests due	[26] 8 2 2 2	m	m
10     client handling of multiple responses due to forking?     [26] 13.2.2.4     m     m     m       11     insertion of date in requests and responses?     [26] subclause 20.17     o     o       12     downloading of alerting information?     [26] subclause 20.4     o     o       13     the SIP INFO method?     [25]     o     n/a       14     reliability of provisional responses in SIP?     [27]     c19     c18       15     the REFER method?     [36]     o     c33       16     integration of resource management and SIP?     [30]     c19     c18       17     the SIP UPDATE method?     [28]     o     c13       20     SIP specific event notification?     [31]     o     c14       21     acting as the notifier of event information?     [28]     c2     c15       21     acting as the subscriber to event information?     [35]     o     c6       22     acting as the subscriber to event information?     [36]     o     m       23     acting as the subscriber to event information?     [33]     o     m       24     session initiation protocol (SIP) for network asserted identity within trusted networks?     [33]     c9     n/a       26     a privacy mechanism for the Session initiation Proto	5	to forking?	[20] 0.2.2.2		111
10Description <th< td=""><td>10</td><td>client handling of multiple responses</td><td>[26] 13 2 2 4</td><td>m</td><td>m</td></th<>	10	client handling of multiple responses	[26] 13 2 2 4	m	m
11insertion of date in requests and responses?[26] subclause 20.170012downloading of alerting information?[26] subclause 20.170013the SIP INFO method?[25]0n/a14reliability of provisional responses in SIP?[27]c19c1815the REFER method?[36]0c3316integration of resource management and SIP?[30]c19c1817the SIP UPDATE method?[29]c5c1819SIP extensions for media authorization?[31]0c1420SIP specific event notification?[28]0c1321the use of NOTIFY to establish a dialog?[28]c2c1622acting as the notifier of event information?[28]c2c1623acting as the notifier of event information?[35]oc624session initiation protocol extension header field for registering non-adjacent contacts?[34]om26a privacy mechanism for the Session Initiation Protocol (SIP)?[33]c9c1126a privacy mechanism for the Session Initiation Protocol (SIP) for network asserted identity within trusted networks?c33c9c1226a privacy mechanism for the Session Initiation Protocol (SIP) for network asserted identity of the privacy based on the received Privacy header transparently?[33]c9c1226Dapplication of the privacy option "header"	10	due to forking?	[20] 10.2.2.4		111
Instruction of decision and exponents       [26] subclause 20.4       0       0         12       downloading of alerting information?       [26] subclause 20.4       0       0         13       the SIP INFO method?       [25]       0       n/a         14       reliability of provisional responses in SIP?       [27]       c19       c18         15       the REFER method?       [36]       0       c33         16       integration of resource management and SIP?       [29]       c5       c18         17       the SIP UPDATE method?       [29]       c5       c18         19       SIP extensions for media authorization?       [28]       0       c14         20       SIP specific event notification?       [28]       0       c13         21       the use of NOTIFY to establish a dialog?       [28] 4.2       0       n/a         22       acting as the subscriber to event information?       [28]       c2       c16         information?       [28]       c2       c16       c16         information?       [28]       c2       c16       c16         24       session initiation protocol extension header field for registering non-adjacent contacts?       contacts?       c6       c6	11	insertion of date in requests and	[26] subclause 20.17	0	0
12       downloading of alerting information?       [26] subclause 20.4       o       o         13       the SIP INFO method?       [25]       o       n/a         14       reliability of provisional responses in SIP?       [27]       c19       c18         15       the REFER method?       [36]       o       c33       c18         15       the REFER method?       [36]       o       c33       c18         16       integration of resource management and SIP?       [29]       c5       c18         17       the SIP UPDATE method?       [28]       o       c14         20       SIP specific event notification?       [28]       o       c13         21       the use of NOTIFY to establish a [28] 4.2       o       n/a       c13(2)?         22       acting as the notifier of event information?       [28]       c2       c16         23       acting as the subscriber to event information?       [28]       o       c6         24       session initiation protocol extension header field for registering non-adjacent contacts?       [35]       o       c6         25       privacy mechanism for the Session Initiation Protocol (SIP) for network asserted identity within trusted networks?       [33]       c9       c11     <		responses?		0	0
12Downloading of alerting information120 subclase 20.40013the SIP INFO method?[25]on/a14reliability of provisional responses in SIP?[27]c19c1815the REFER method?[36]oc3316integration of resource management and SIP?[30]c19c1817the SIP UPDATE method?[29]c5c1819SIP extensions for media authorization?[28]oc1320SIP specific event notification?[28]oc1321the use of NOTIFY to establish a dialog?[28]c2c1523acting as the notifier of event information?[28]c2c1624session initiation protocol extension header field for registering non-adjacent contacts?[35]om25private extensions to the Session Initiation Protocol (SIP) for network asserted identity within trusted networks?[33]c9c1126a privacy mechanism for the Session received Privacy based on the received Privacy based on the received Privacy based on the received Privacy based on the received Privacy header?[33] 5.1c10c2726Eapplication of the privacy option received Privacy option received Privacy potion received Priva	12	downloading of alerting information?	[26] subclause 20.4	0	0
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"session" such that anonymization for	200	session such that anonymization for	[33] 3.2		621

#### 8

	the session(s) initiated by this message				
	occurs?				
26F	application of the privacy option "user" such that user level privacy functions	[33] 5.3	c10	c27	
	are provided by the network?	10.41.7	10	1	
26G	application of the privacy option "id"	[34] 7	c10	n/a	
	such that privacy of the network				
	asserted identity is provided by the				
07		[50]	_	-7	
21	Session Initiation Protocol (SIP)?	[50]	0	C7	
28	session initiation protocol extension	[38]	0	c17	
	header field for service route discovery				
	during registration?				
29	compressing the session initiation	[55]	0	c8	
	protocol?				
30	private header extensions to the	[52]	0	m	
	session initiation protocol for the 3rd-				
	Generation Partnership Project				
	(3GPP)?				
31	the P-Associated-LIRI header	[52] 4 1	c21	c22	
01	extension?	[02] 4.1	021	022	
22	the R Called Party ID header	[52] 4 2	021	022	
32	avtension?	[32] 4.2	621	623	
	extension?	1501.4.0	-04	-04	
33	the P-VIsited-INetwork-ID header	[52] 4.3	C21	C24	
	extension?				
34	the P-Access-Network-Info header	[52] 4.4	c21	c25	
	extension?				
35	the P-Charging-Function-Addresses	[52] 4.5	c21	c26	
	header extension?				
36	the P-Charging-Vector header	[52] 4.6	c21	c26	
	extension?				
37	security mechanism agreement for the	[48]	0	c20	
	session initiation protocol?				
38	the Reason header field for the session	[34A]	0	o (note 1)	
	initiation protocol?		-		
39	an extension to the session initiation	[56A]	0	x	
00	protocol for symmetric response		U	^	
	routeing?				
40	coller proferences for the session	[56P]	C20	c20	
40	initiation protocol2	[505]	023	029	
40.4	the prove directive within coller	[E6D] 0 1	o 5	0.5	
40A	ne proxy-directive within caller-	[506] 9.1	0.5	0.5	
400	preferences?			- 5	
40B	the cancel-directive within caller-	[208] 9.1	0.5	0.5	
400	preferences?				
400	the fork-directive within caller-	[56B] 9.1	0.5	C28	
_	preferences?				
40D	the recurse-directive within caller-	[56B] 9.1	0.5	0.5	
	preferences?				
40E	the parallel-directive within caller-	[56B] 9.1	0.5	c28	
	preferences?				
40F	the queue-directive within caller-	[56B] 9.1	0.5	0.5	
	preferences?				
41	an event state publication extension to	[70]	0	c30	
	the session initiation protocol?		-		
42	SIP session timer?	[58]	c19	c19	
43	the SIP Referred-By mechanism?	[59]	0	c33	
44	the Session Inititation Protocol (SIP)	[60]	c19	c19 (note 1)	
	"Replaces" header?	[00]	010		
45	the Session Inititation Protocol (SIP)	[61]	c19	c19 (note 1)	
+5	" loin" header?		013		
46	the college conshilities?	[62]		c25	
+0		1021		000	

02:	IF A.4/20 I TEIN 0.1 ELSE IVA SIF Specific event notification extension. IF A 2/4 OP A 2/4 THEN IN FLOE IN/A - THE or S CSCE functional activity
C3:	IF A.3/1 OR A.3/4 THEN M ELSE I/A UE of S-CSCF functional entity.
C4:	IF A.3/4 THEN M ELSE IF A.3/7 THEN O ELSE n/a S-CSCF or AS functional entity.
C5:	IF A.4/16 THEN m ELSE 0 integration of resource management and SIP extension.
C6:	IF A.3/4 OR A.3/1 THEN M ELSE Ma S-CSCF OF UE.
c7:	IF A.3/1 OR A.3/4 OR A.3/7A OR A.3/7B OR A.3/7D THEN M ELSE n/a UA or S-CSCF or AS acting as
	terminating UA or AS acting as originating UA or AS performing 3° party call control.
c8:	IF A.3/1 THEN M ELSE n/a UE behaviour.
c9:	IF A.4/26 THEN 0.2 ELSE n/a a privacy mechanism for the Session Initiation Protocol (SIP).
c10:	IF A.4/26B THEN 0.3 ELSE n/a application of privacy based on the received Privacy header.
c11:	IF A.3/1 OR A.3/6 THEN 0 ELSE n/a UE or MGCF.
c12:	IF A.3/7D THEN m ELSE n/a AS performing 3rd-party call control.
c13:	IF A.3/1 OR A.3/2 OR A.3/4 THEN m ELSE o UE behaviour or S-CSCF.
c14:	IF A.3/1 THEN M ELSE IF A.3/2 THEN O ELSE n/a – UE or P-CSCF.
c15:	IF A.4/20 and A.3/4 THEN m ELSE o – SIP specific event notification extensions and S-CSCF.
c16:	IF A.4/20 and (A.3/1 OR A.3/2) THEN m ELSE o SIP specific event notification extension and UE or P- CSCF.
c17:	IF A.3/1 or A.3/4 THEN m ELSE n/a UE or S-CSCF.
c18:	IF A.4/2B THEN m ELSE n/a initiating sessions.
c19:	IF A.4/2B THEN o ELSE n/a initiating sessions.
c20:	IF A.3/1 THEN m ELSE n/a UE behaviour.
c21:	IF A.4/30 THEN 0.4 ELSE n/a private header extensions to the session initiation protocol for the 3rd-
	Generation Partnership Project (3GPP).
c22:	IF A.4/30 AND (A.3/1 OR A.3/4) THEN m ELSE n/a private header extensions to the session initiation protocol for the 3rd-Generation Partnership Project (3GPP) and S-CSCF or UA.
c23:	IF A 4/30 AND A 3/1 THEN o ELSE n/a private header extensions to the session initiation protocol for
	the 3rd-Generation Partnership Project (3GPP) and UE.
c24:	IF A.4/30 AND A.3/4) THEN m ELSE n/a private header extensions to the session initiation protocol for
	the 3rd-Generation Partnership Project (3GPP) and S-CSCF.
c25:	IF A.4/30 AND (A.3/1 OR A.3/4 OR A.3/7A OR A.3/7D) THEN m ELSE n/a private header extensions to
	the session initiation protocol for the 3rd-Generation Partnership Project (3GPP) and UE. S-CSCF or AS
	acting as terminating UA or AS acting as third-party call controller.
c26:	IF A.4/30 AND (A.3/6 OR A.3/7A OR A.3/7B or A.3/7D) THEN m ELSE n/a private header extensions to
	the session initiation protocol for the 3rd-Generation Partnership Project (3GPP) and MGCF, AS acting as a
	terminating UA, or AS acting as an originating UA, or AS acting as third-party call controller.
c27:	IF A.3/7D THEN o ELSE x AS performing 3rd party call control.
c28:	IF A.3/1 THEN m ELSE 0.5 UE.
c29:	IF A.4/40A OR A.4/40B OR A.4/40C OR A.4/40D OR A.4/40E OR A.4/40F THEN m ELSE n/a support of
	any directives within caller preferences for the session initiation protocol.
c30:	IF A.3A/1 OR A.3A/2 THEN m ELSE IF A.3/1 THEN o ELSE n/a presence server, presence user agent.
	UE, AS.
c33:	IF A.3/11 OR A.3/12 OR A.4/44 THEN m ELSE o conference focus or conference participant or the
	Session Inititation Protocol (SIP) "Replaces" header.
c34:	IF A.4/44 OR A.4/45 THEN m ELSE n/a the Session Inititation Protocol (SIP) "Replaces" header or the
	Session Inititation Protocol (SIP) "Join" header.
c35:	IF A.3/4 THEN m ELSE IF (A.3/1 OR A.3/6 OR A.3/7 OR A.3/8) THEN o ELSE n/a UE, MGCF, AS
	MRFC or S-CSCF functional entity.
0.1:	At least one of these capabilities is supported.
o.2:	At least one of these capabilities is supported.
o.3:	At least one of these capabilities is supported.
o.4:	At least one of these capabilities is supported.
0.5:	At least one of these capabilities is supported.
NOTE 1:	At the MGCF, the interworking specifications do not support a handling of the header associated with this
	extension.
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Prerequisite A.5/20 - - SIP specific event notification

Item	Does the implementation	Subscriber			Notifier			
	support	Ref.	RFC	Profile	Ref.	RFC	Profile	
			status	status		status	status	
1	reg event package?	[43]	c1	c3	[43]	c2	c4	
2	refer package?	[36] 3	c13	c13	[36] 3	c13	c13	
3	presence package?	[74] 6	c1	c5	[74] 6	c2	c6	
4	eventlist with underlying	[75], [74]	c1	c7	[75], [74]	c2	c8	
	presence package?	6			6			
5	presence.winfo template-	[72] 4	c1	c9	[72] 4	c2	c10	
	package?							
6	xcap-change-sip-profile	[77] <mark>23</mark>	c1	c11	[77] <mark>23</mark>	c2	c12	
	package?							
7	conference package?	[78] 3	c1	c21	[78] 3	c1	c22	
c1:	IF A.4/23 THEN o ELSE n/a acting as the subscriber to event information.							
c2:	IF A.4/22 THEN o ELSE n/a acting as the notifier of event information.							
c3:	IF A.3/1 OR A.3/2 THEN m ELSE IF A.3/7 THEN 0 ELSE n/a UE, P-CSCF, AS.							
c4:	IF A.3/4 THEN m ELSE n/a S-CSCF.							
c5:	IF A.3A/3 OR A.3A/4 THEN m ELSE IF A.4/23 THEN o ELSE n/a resource list server or watcher, acting							
	as the subscriber to event inform	mation.						
c6:	IF A.3A/1 THEN m ELSE IF A.4/22 THEN o ELSE n/a watcher, acting as the notifier of event information.							
c7: IF A.3A/4 THEN m ELSE IF A.4/23 THEN o ELSE n/a watcher					ting as the subscriber to event			
	information.							
c8:	28: IF A.3A/3 THEN m ELSE IF A.4/22 THEN o ELSE n/a resource list server, acting as the notified					ier of event		
	information.							
c9:	IF A.3A/1 THEN m ELSE IF A.4/23 THEN o ELSE n/a presence user agent, acting as the subscriber to							
	event information.		/					
c10:	IF A.3A/2 THEN m ELSE IF A.4/22 THEN o ELSE n/a presence server, acting as the notifier of event							
	information.			05 /				
C11:	c11: IF A.3A/2 OR A.3A/4 THEN o ELSE IF A.4/23 THEN o ELSE n/a watcher or presence user a					sence user a	gent, acting	
- 10-	as the subscriber to event information.						- 11-4	
C12:	12: IF A.3A/1 OR A.3A/3 THEN m ELSE IF A.4/22 THEN o ELSE n/a presence server or resource lis						elist	
0121	Server, acting as the notifier of e		ition.					
013.		IF A.4/15 THEN M ELSE N/A the REFER method.						
621.	IF A.JA/ IZ ITEN III ELSE IF A	.4/23 INEN (		- comerence	participant 0	r acting as th	C	
c22.				- conference	focus or acti	na as the not	ifier of	
022.	IF A.3A/II I TEN III ELSE IF A	.4/22 INEN (		- comerence		ny as the not		
	event iniornation.							

Table A.4A: Supported event packages