## 3GPP TSG-CN Meeting #24 2<sup>nd</sup> – 4<sup>th</sup> June 2004. Seoul, Korea.

Source:	TSG CN WG 1
Title:	CRs to Rel-6 on Work Item PRESNC towards 24.229
Agenda item:	9.2
Document for:	APPROVAL

#### Introduction:

This document contains 2 CRs, **Rel-6** Work Item "**PRESNC**", that have been agreed by **TSG CN WG1 in CN1#34 meeting**, and are forwarded to TSG CN Plenary meeting #24 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Version- Current	Doc-2nd- Level
24.229	629	2	Rel-6	Addition of PRESNC material	В	6.2.0	N1-040996
24.229	652		Rel-6	Creation of separate event package table for UA role	С	6.2.0	N1-041066

## 3GPP TSG-CN1 Meeting #34 Zagreb, Croatia 10 – 14 May 2004

## Tdoc N1-040996

## was Tdoc N1-040621, Tdoc N1-040766

	CHANGE REQUEST									
ж	24	.229	CR <mark>62</mark> 9	Ð	жrev	2	Ħ	Current vers	<sup>sion:</sup> 6.2.0	<b>H</b>
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Title:	ж <mark>Ас</mark>	ldition o	f PRESNC	material						
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Work item cod	<b>le:</b>	RESNC						<i>Date:</i> ೫	22/03/2004	
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Reason for ch	ange: ¥	In 3G 24.84 opera perfo	PP CN1, t 1. This inc ation, and t rms that tra	ne PRESI ludes ma herefore r ansfer of r	NC work terial that needs to naterial.	item h is ne be pla	nas b eded iced i	een progress I for PRESNO in 3GPP TS	sed as 3GPP C, but is gene 24.229. This (	TR ric in its CR
Summary of c	hange: ¥	New New Requ 412 s	procedures procedures irements fi tatus-code	are adde are adde om the di are adde	ed for app ed for thro aft-ietf-si ed to the \$	olication ottling pping SIP pr	on se at th -publ ofile.	erver authentine application lish draft, e.g	ication require server. PUBLISH m	ements. ethod and
Consequences not approved:	sif ₩	PRES	SNC will no	ot be in re	lease 6.					
Clauses affect	ted: भ	2, 5.7	.1.4 (new)	, 5.7.1.5 (	new), 5.7	. <b>1.6</b> (I	new)	, A.2.1.2, A.2	2.1.3, A.2.1.4.	1,
Other specs affected:	¥	A.2.1 Y N B X X X X	Other core Test spec O&M Spe	e specifications	2.3, A.2.	2.4.1, X	A.2.2	2.4.1UA		
Other commen	nts: ೫	8								

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. 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.

## **PROPOSED 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".
- [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)".
- [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".
- [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] RFC 2806 (April 2000): "URLs for Telephone Calls".
- [23] RFC 2833 (May 2000): "RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals".
- [24] RFC 2916 (September 2000): "E.164 number and DNS".
- [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".
- [36] RFC 3515 (April 2003): "The Session Initiation Protocol (SIP) REFER method".
- [37] RFC 3420 (November 2002): "Internet Media Type message/sipfrag".
- [38] RFC 3608 (October 2003): "Session Initiation Protocol (SIP) Extension Header Field for Service Route Discovery During Registration".

[39]	draft-ietf-mmusic-sdp-new-13 (May 2003): "SDP: Session Description Protocol".
Editor's note: T	he above document cannot be formally referenced until it is published as an RFC.
[40]	RFC 3315 (July 2003): "Dynamic Host Configuration Protocol for IPv6 (DHCPv6)".
[41]	RFC 3319 (July 2003): "Dynamic Host Configuration Protocol (DHCPv6) Options for Session Initiation Protocol (SIP) Servers".
[42]	RFC 3485 (February 2003): "The Session Initiation Protocol (SIP) and Session Description Protocol (SDP) static dictionary for Signaling Compression (SigComp)".
[43]	draft-ietf-sipping-reg-event-00 (October 2002): "A Session Initiation Protocol (SIP) Event Package for Registrations".
Editor's note: T	he above document cannot be formally referenced until it is published as an RFC.
[44]	Void.
[45]	Void.
[46]	Void.
[47]	Void.
[48]	RFC 3329 (January 2003): "Security Mechanism Agreement for the Session Initiation Protocol (SIP)".
[49]	RFC 3310 (September 2002): "Hypertext Transfer Protocol (HTTP) Digest Authentication Using Authentication and Key Agreement (AKA)".
[50]	RFC 3428 (December 2002): "Session Initiation Protocol (SIP) Extension for Instant Messaging".
[51]	Void.
[52]	RFC 3455 (January 2003): "Private Header (P-Header) Extensions to the Session Initiation Protocol (SIP) for the 3rd-Generation Partnership Project (3GPP)".
[53]	RFC 3388 (December 2002): "Grouping of Media Lines in Session Description Protocol".
[54]	RFC 3524 (April 2003): "Mapping of Media Streams to Resource Reservation Flows".
[55]	RFC 3486 (February 2003): "Compressing the Session Initiation Protocol (SIP)".
[56]	RFC 3556 (July 2003): "Session Description Protocol (SDP) Bandwidth Modifiers for RTP Control Protocol (RTCP) Bandwidth".
[56A]	RFC 3581 (August 2003): "An Extension to the Session Initiation Protocol (SIP) for Symmetric Response Routing".
[56B]	draft-ietf-sip-callerprefs-10 (October 2003): "Caller Preferences for the Session Initiation Protocol (SIP)"
Editor's note: T	he above document cannot be formally referenced until it is published as an RFC.
[57]	ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
[70]	draft-ietf-sip-publish-02 (January 2004): "Session Initiation Protocol (SIP) Extension for Presence Publication".
[71]	draft-niemi-sipping-event-throttle-00 (October 2003): "Session Initiation Protocol (SIP) Event Notification Throttles".
[72]	draft-ietf-simple-winfo-package-05 (January 2003): "A Session Initiation Protocol (SIP) Event Template-Package for Watcher Information".
[73]	<u>3GPP TS 24.141: "Presence service using the IP Multimedia (IM) Core Network (CN) subsystem;</u> <u>Stage 3".</u>

[74]	draft-ietf-simple-presence-10 (January 2003): "A Presence Event Package for the Session
	Initiation Protocol (SIP)".
[75]	draft-ietf-simple-event-list-04 (June 2003): "A Session Initiation Protocol (SIP) Event Notification
	Extension for Collections".
[76]	draft-ietf-simple-winfo-package-05 (January 2003): "A Session Initiation Protocol (SIP) Event
	Template-Package for Watcher Information".
[77]	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".

## PROPOSED CHANGE

## 5.7.1 Common Application Server (AS) procedures

#### 5.7.1.1 Notification about registration status

The AS may support the REGISTER method in order to discover the registration status of the user. If a REGISTER request arrives containing information about the user's registration status and the AS supports the REGISTER method, the AS shall store the Expires parameter from the request and generate a 200 (OK) response or an appropriate failure response. For the success case, the 200 (OK) response shall contain Expires value equal to the value received in the REGISTER request. The AS shall store the values received in P-Charging-Function-Addresses header. Also, the AS shall store the values of the icid parameter in the P-Charging-Vector header from the REGISTER request.

Upon receipt of a third-party REGISTER request, the AS may subscribe to the reg event package for the public user identity registered at the users registrar (S-CSCF) as described in draft-ietf-sipping-reg-event-00 [43].

On sending a SUBSCRIBE request, the AS shall populate the header fields as follows:

- a) a Request URI set to the resource to which the AS wants to be subscribed to, i.e. to a SIP URI that contains the public user identity of the user that was received in the To header field of the third-party REGISTER request;
- b) a From header field set to the AS's SIP URI;
- c) a To header field, set to a SIP URI that contains the public user identity of the user that was received in the To header field of the third-party REGISTER request;
- d) an Event header set to the "reg" event package;
- e) a P-Asserted-Identity header field set to the SIP URI of the AS; and
- NOTE 1: The S-CSCF expects the SIP URI used in the P-Asserted-Identity header to correspond to the SIP URI, which identified this AS in the initial filter criteria of the user to whose registration state the AS subscribes to.
- f) a P-Charging-Vector header with the icid parameter populated as specified in 3GPP TS 32.260 [17].

Upon receipt of a 2xx response to the SUBSCRIBE request, the AS shall store the information for the so established dialog and the expiration time as indicated in the Expires header of the received response.

NOTE 2: Upon receipt of a NOTIFY request with all <registration> element(s) having their state attribute set to "terminated" (i.e. all public user identities are deregistered) and the Subscription-State header set to "terminated", the AS considers the subscription to the reg event package terminated, i.e. as if the AS had sent a SUBSCRIBE request with an Expires header containing a value of zero.

#### 5.7.1.2 Extracting charging correlation information

When an AS receives an initial request for a dialog or a request (excluding ACK requests and CANCEL requests and responses) for a standalone transaction, the AS shall store the values received in the P-Charging-Vector header, e.g. icid

parameter, and retain the P-Charging-Vector header in the message. The AS shall store the values received in the P-Charging-Function-Addresses header and retain the P-Charging-Function-Addresses header in the message.

When an AS sends any request or response related to a dialog or standalone transaction, the AS may insert previously saved values into the P-Charging-Vector and P-Charging-Function-Addresses headers before sending the message.

#### 5.7.1.3 Access-Network-Info

The AS may receive in any request or response (excluding ACK requests and CANCEL requests and responses) information about the served user access network. This information is contained in the P-Access-Network-Info header. The AS can use the header to provide an appropriate service to the user.

#### 5.7.1.4 User identify verification at the AS

The procedures at the AS to accomplish user identity verification are described with the help of figure 5-1.

When the AS receives a SIP initial or standalone request that does not contain credentials, the AS shall:

- Editor's Note: it is not clear what are the mechanisms available to transport the credentials. These mechanisms can include, among others, P-Asserted-Identity, Authorization header, digital signatures, S/MIME body, etc.
- a) if a Privacy header is present in the initial or standalone request and the Privacy header value is set to "id" or "user", then the user and the request are considered as anonymous, and no further actions are required. The AS shall consider the request as authenticated;
- b) if there is no Privacy header present in the initial or standalone request, or if the Privacy header contains a value other than "id" or "user", then the AS shall check for the presence of a P-Asserted-Identity header in the initial or standalone request. Two cases exists:
  - i) the initial or standalone request contains a P-Asserted-Identity header. This is typically the case when the user is located inside a trusted domain as defined by subclause 4.4. In this case, the AS is aware of the identity of the user and no extra actions are needed. The AS shall consider the request as authenticated.
  - ii) the initial or standalone request does not contain a P-Asserted-Identity header. This is typically the case when the user is located outside a trusted domain as defined by subclause 4.4. In this case, the AS does not have a verified identity of the user. The AS shall check the From header of the initial or standalone request. If the From header value in the SUBSCRIBE request is set to "Anonymous", then the user and the request are considered as anonymous and no further actions are required. If the From header value does not indicate anonymity, then the AS shall challenge the user by issuing a 401 (Unauthorized) response including a challenge as per procedures described in RFC 3261 [26].

When the AS receives a SIP initial or standalone request that contains credentials but it does not contain a P-Asserted-Identity header the AS shall check the correctness of the credentials as follows:

- a) If the credentials are correct, then the AS shall consider the identity of the user verified, and the AS shall consider the request as authenticated;
- b) If the credentials are not correct, the AS may either rechallenge the user by issuing a 401 (Unauthorized)
   response including a challenge as per procedures described in RFC 3261 [26] (up to a predetermined maximum number of times predefined in the AS configuration data), or consider the user as anonymous. If the user is considered anonymous, the PS shall consider the request as authenticated.

Editor's Note: It needs to be investigated whether the *maximum number of times predefined in the AS configuration* <u>data creates a potential denial of service attack, as it requires the AS to keep states between different</u> <u>different authentications trials.</u>





## 5.7.1.5 Request authorization

Once the AS have tried to verify the identity of the user, the AS either has a verified identity of the user or it considers the user as anonymous.

If the user is considered anonymous, the AS shall check whether the authorization policy defined for this request allows anonymous requests. If anonymous requests are allowed, then the AS can proceed with the requested functionality, otherwise, the AS shall not proceed with the requested functionality.

If the user is identified by an identity, the AS shall apply the authorization policy related to the requested functionality to detect whether the particular user is allowed to request the functionality. The authorization policy may require a verified identity of a user.

If the request is authorized then the AS shall continue with the procedures as defined for that request.

If the request is not authorized, the AS shall either:

- reject the request according to the procedures defined for that request e.g., by issuing a 403 (Forbidden) response; or
- send a 2xx final response if the authorization policy requires to deny the requested functionality, whilst appearing to the user as if the request has been granted.

### 5.7.1.6 Event notification throttling

If the user has indicated a preference for throttling of SIP event notifications using the parameters defined in draftniemi-sipping-event-throttle-00 [71], then the AS shall generate notifications in accordance with the user's preference and possibly other policies (e.g., AS internal policy) applied to the case.

Editor's Note: draft-niemi-sipping-event-throttle-00 [71] is one solution for the requirement. If other solutions are identified, the text shall be updated to reflect the chosen solution.

# PROPOSED CHANGE

# A.1.3 Roles

#### Table A.2: Roles

ltem	Roles	Reference	RFC status	Profile status		
1	User agent	[26]	0.1	o.1		
2	Proxy	[26]	0.1	o.1		
o.1: It	o.1: It is mandatory to support exactly one of these items.					
NOTE: Fo sp er	TE: For the purposes of the present document it has been chosen to keep the specification simple by the tables specifying only one role at a time. This does not preclude implementations providing two roles, but an entirely separate assessment of the tables shall be made for each role.					

ltem	Roles	Reference	RFC status	Profile status		
1	UE	5.1	n/a	0.1		
2	P-CSCF	5.2	n/a	0.1		
3	I-CSCF	5.3	n/a	0.1		
ЗA	I-CSCF (THIG)	5.3	n/a	c1		
4	S-CSCF	5.4	n/a	0.1		
5	BGCF	5.6	n/a	0.1		
6	MGCF	5.5	n/a	0.1		
7	AS	5.7	n/a	0.1		
7A	AS acting as terminating UA, or redirect	5.7.2	n/a	c2		
	server					
7B	AS acting as originating UA	5.7.3	n/a	c2		
7C	AS acting as a SIP proxy	5.7.4	n/a	c2		
7D	AS performing 3rd party call control	5.7.5	n/a	c2		
8	MRFC	5.8	n/a	0.1		
c1: IF	A.3/3 THEN o ELSE x I-CSCF.					
c2: IF	A.3/7 THEN 0.2 ELSE n/a AS.					
o.1: It	is mandatory to support exactly one of thes	e items.				
o.2: It	.2: It is mandatory to support at least one of these items.					
NOTE: Fo	or the purposes of the present document it	has been chosen to l	keep the specification	simple by the tables		
sp	becifying only one role at a time. This does	not preclude implem	entations providing two	o roles, but an		
er	tirely separate assessment of the tables sh	hall be made for each	n role.			

#### Table A.3: Roles specific to this profile

#### Table A.3A: Roles specific to additional capabilities

Item	Roles	Reference	RFC status	Profile status			
<u>1</u>	Presence server	3GPP TS 24.141	<u>n/a</u>	<u>c1</u>			
		[73]					
<u>2</u>	Presence user agent	3GPP TS 24.141	<u>n/a</u>	<u>c2</u>			
		[73]					
<u>3</u>	Resource list server	<u>3GPP TS 24.141</u>	<u>n/a</u>	<u>c3</u>			
		[73]					
<u>4</u>	Watcher	3GPP TS 24.141	<u>n/a</u>	<u>c4</u>			
		[73]					
<u>c1:</u> IF	<u> </u>	AS acting as terminat	ing UA, or redirect se	rver and AS acting			
<u>a</u>	s originating UA.						
<u>c2:</u> IF	<u> A.3/1 THEN o ELSE n/a UE.</u>						
<u>c3:</u> IF	F A.3/7A THEN o ELSE n/a AS acting as	terminating UA, or re-	direct server.				
<u>c4:</u> IF	c4: IF A.3/1 OR A.3/7B THEN o ELSE n/a UE or AS acting as originating UA.						
NOTE: F	NOTE: For the purposes of the present document it has been chosen to keep the specification simple by the tables						
S	pecifying only one role at a time. This does	not preclude impleme	ntations providing two	<u>o roles, but an</u>			
e	<u>ntirely separate assessment of the tables sh</u>	nall be made for each	<u>role.</u>				

# PROPOSED CHANGE

# A.2.1.2 Major capabilities

#### Table A.4: Major capabilities

11

Item	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
1	client behaviour for registration?	[26] subclause 10.2	0	c3
2	registrar?	[26] subclause 10.3	0	c4
2A	registration of multiple contacts for a single address of record	[26] 10.2.1.2, 16.6	0	0
2B	initiating a session?	[26] subclause 13	0	0
3	client behaviour for INVITE requests?	[26] subclause 13.2	c18	c18
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 8.2.6.1	0	0
7	authentication between UA and UA?	[26] subclause 22.2	0	0
8	authentication between UA and registrar?	[26] subclause 22.2	0	n/a
8A	authentication between UA and proxy?	[26] 20.28, 22.3	0	0
9	server handling of merged requests due to forking?	[26] 8.2.2.2	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] subclause 20.17	0	0
12	downloading of alerting information?	[26] subclause 20.4	0	0
	Extensions			-
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	0
16	integration of resource management and SIP?	[30]	c19	c18
17	the SIP UPDATE method?	[29]	c5	c18
19	SIP extensions for media authorization?	[31]	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 notifier of event information?	[28]	c2	c15
23	acting as the subscriber to event	[28]	c2	c16
24	session initiation protocol extension header field for registering non-adjacent contacts?	[35]	0	c6
25	private extensions to the Session Initiation Protocol (SIP) for network asserted identity within trusted networks?	[34]	0	m
26	a privacy mechanism for the Session Initiation Protocol (SIP)?	[33]	0	m
26A	request of privacy by the inclusion of a Privacy header indicating any privacy option?	[33]	c9	c11
26B	application of privacy based on the received Privacy header?	[33]	c9	n/a
26C	passing on of the Privacy header transparently?	[33]	c9	c12
26D	application of the privacy option "header" such that those headers which cannot be completely expunged of identifying information without the	[33] 5.1	c10	c27

	assistance of intermediaries are			
005	ODSCURED?	1001 5 0	- 40	-07
26E	application of the privacy option	[33] 5.2	C10	C27
	the session such that anonymization for			
	accure?			
265	opplication of the privacy option "uppr"	[22] 5 2	010	027
201	application of the privacy option user	[33] 5.3	010	627
	are provided by the network?			
260	and provided by the network?	[24] 7	c10	n/a
200	such that privacy of the network	[34] /	010	11/d
	asserted identity is provided by the			
	network?			
27	a messaging mechanism for the	[50]	0	c7
21	Session Initiation Protocol (SIP)?	[00]	0	01
28	session initiation protocol extension	[38]	0	c17
20	header field for service route discovery	[00]	Ŭ	011
	during registration?			
29	compressing the session initiation	[55]	0	c8
20	protocol?	[00]	U U	
30	private header extensions to the	[52]	0	m
	session initiation protocol for the 3rd-	[0-]	U U	
	Generation Partnership Project			
	(3GPP)?			
31	the P-Associated-URI header	[52] 4.1	c21	c22
01	extension?	[0-]		
32	the P-Called-Party-ID header	[52] 4.2	c21	c23
	extension?	[]		
33	the P-Visited-Network-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	х
	protocol for symmetric response			
	routeing?			
40	caller preferences for the session	[56B]	C29	c29
	initiation protocol?			
40A	the proxy-directive within caller-	[56B] 9.1	0.5	0.5
	preferences?			
40B	the cancel-directive within caller-	[56B] 9.1	0.5	0.5
	preferences?			
40C	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
105	preterences?	15001.0.4	-	-
40F	the queue-directive within caller-	[56B] 9.1	0.5	0.5
	preterences?	[70]		-00
<u>xx</u>	an event state publication extension to	<u>[/0]</u>	<u>o</u>	<u>c30</u>
1	the session initiation protocol?	1	1	1

c2:	IF A.4/20 THEN 0.1 ELSE n/a SIP specific event notification extension.
c3:	IF A.3/1 OR A.3/4 THEN m ELSE n/a UE or 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 o integration of resource management and SIP extension.
c6:	IF A.3/4 OR A.3/1 THEN m ELSE n/a S-CSCF or 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 <sup>rd</sup> 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 o 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.3/4 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-
0.01	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 FLSE n/a initiating sessions.
c20:	F A 3/1 THEN m ELSE n/a UE behaviour.
c21:	F A 4/30 THEN 0.4 FLSE 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 $p/a - private header extensions to the session initiation$
022.	protocol for the 3rd-Generation Partnership Project (3GPP) and S-CSCE or IIA
c23 <sup>.</sup>	E A 4/30 AND A 3/1 THEN o ELSE n/a private header extensions to the session initiation protocol for
020.	the 3rd-Generation Partnership Project (3GPP) and UF.
c24:	IF A 4/30 AND A 3/4) THEN m FLSE n/a private header extensions to the session initiation protocol for
	the 3rd-Generation Partnership Project (3GPP) and S-CSCF.
c25:	F 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 FLSE x AS performing 3rd party call control
c28	F A 3/1 THEN m ELSE 0.5 - 1 JE
c29:	IF A 4/40A OR A 4/40B OR A 4/40C OR A 4/40D OR A 4/40E OR A 4/40E THEN m ELSE n/a support of
0201	any directives within caller preferences for the session initiation protocol
c30:	F 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,
o.1:	At least one of these capabilities is supported.
o.2:	At least one of these capabilities is supported.
0.3:	At least one of these capabilities is supported.
0.4:	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.

Table A.4A of 3GPP TS 24.229 is modified with the following additional rows (This table is added to 24.229 by a CR to the June 2004 plenary):

<u>Item</u>	Does the implementation	Subscriber			Notifier		
	<u>support</u>	Ref.	RFC	Profile	Ref.	RFC	Profile
			<u>status</u>	status		<u>status</u>	<u>status</u>
<u>aa</u>	presence package?	<u>[8.74] 6</u>	<u>c1</u>	<u>c5</u>	<u>[8.74] 6</u>	<u>c2</u>	<u>c6</u>
bb	eventlist with underlying	<u>[8.75],</u>	<u>c1</u>	<u>c7</u>	[8.75],	<u>c2</u>	<u>c8</u>
	presence package?	<u>[8.74] 6</u>			<u>[8.74] 6</u>		
<u>CC</u>	presence.winfo template-	<u>[8.76] 4</u>	<u>c1</u>	<u>c9</u>	[8.76] 4	<u>c2</u>	<u>c10</u>
	<u>package?</u>						
dd	xcap-change package?	<u>[8.77] 2</u>	<u>c1</u>	<u>c11</u>	<u>[8.77] 2</u>	<u>c2</u>	<u>c12</u>
<u>c1:</u>	IF A.4/23 THEN o ELSE n/a a	acting as the	subscriber to	event inform	nation.		
<u>c2:</u>	IF A.4/22 THEN o ELSE n/a a	acting as the	notifier of ev	ent informatio	<u>on.</u>		
<u>c5:</u>	IF A.3A/3 OR A.3A/4 THEN m E	LSE IF A.4/2	2 <u>3 THEN o E</u>	<u>LSE n/a re</u>	source list se	erver or watc	her, acting
	as the subscriber to event inforn	nation.					
<u>c6:</u>	IF A.3A/1 THEN m ELSE IF A.4,	<u>/22 THEN o l</u>	<u>ELSE n/a '</u>	watcher, actir	ng as the not	ifier of event	information.
<u>c7:</u>	IF A.3A/4 THEN m ELSE IF A.4,	/ <u>23 THEN o l</u>	<u>ELSE n/a '</u>	watcher, actir	ng as the sub	scriber to ev	<u>ent</u>
	information.						
<u>c8:</u>	IF A.3A/3 THEN m ELSE IF A.4,	<u>/22 THEN o l</u>	<u>ELSE n/a</u>	resource list s	server, acting	as the notifi	er of event
	information.						
<u>c9:</u>	IF A.3A/1 THEN m ELSE IF A.4,	/ <u>23 THEN o l</u>	ELSE n/a	presence use	er agent, actir	ng as the sub	scriber to
	event information.						
<u>c10:</u>	IF A.3A/2 THEN m ELSE IF A.4,	/ <u>22 THEN o l</u>	<u>ELSE n/a </u>	presence ser	ver, acting as	<u>s the notifier (</u>	of event
	information.						
<u>c11:</u>	IF A.3A/2 OR A.3A/4 THEN o El	<u>_SE IF A.4/2</u>	<u>3 THEN o EL</u>	<u>.SE n/a wa</u>	atcher or pres	sence user ag	gent, acting
	as the subscriber to event inforn	<u>nation.</u>					
<u>c12:</u>	IF A.3A/1 OR A.3A/3 THEN m E	LSE IF A.4/2	22 THEN o E	<u>LSE n/a pr</u>	esence serve	er or resourc	<u>e list</u>
	server, acting as the notifier of e	vent informa	<u>tion.</u>				

# PROPOSED CHANGE

## A.2.1.3 PDUs

ltem	PDU		Sending			Receiving	
		Ref.	RFC	Profile	Ref.	RFC	Profile
			status	status		status	status
1	ACK request	[26] 13	c10	c10	[26] 13	c11	c11
2	BYE request	[26] 15.1	c12	c12	[26] 15.1	c12	c12
3	BYE response	[26] 15.1	c12	c12	[26] 15.1	c12	c12
4	CANCEL request	[26] 9	m	m	[26] 9	m	m
5	CANCEL response	[26] 9	m	m	[26] 9	m	m
8	INVITE request	[26] 13	c10	c10	[26] 13	c11	c11
9	INVITE response	[26] 13	c11	c11	[26] 13	c10	c10
9A	MESSAGE request	[50] 4	c7	c7	[50] 7	c7	c7
9B	MESSAGE response	[50] 4	c7	c7	[50] 7	c7	c7
10	NOTIFY request	[28] 8.1.2	c4	c4	[28] 8.1.2	c3	c3
11	NOTIFY response	[28] 8.1.2	c3	c3	[28] 8.1.2	c4	c4
12	OPTIONS request	[26] 11	m	m	[26] 11	m	m
13	OPTIONS response	[26] 11	m	m	[26] 11	m	m
14	PRACK request	[27] 6	c5	c5	[27] 6	c5	c5
15	PRACK response	[27] 6	c5	c5	[27] 6	c5	c5
<u>15A</u>	PUBLISH request	[70] 3	<u>c20</u>	<u>c20</u>	[70] 3	<u>c20</u>	<u>c20</u>
15B	PUBLISH response	[70] 3	<u>c20</u>	<u>c20</u>	[70] 3	<u>c20</u>	<u>c20</u>
16	REFER request	[36] 3	c1	c1	[36] 3	c1	c1
17	REFER response	[36] 3	c1	c1	[36] 3	c1	c1
18	REGISTER request	[26] 10	c8	c8	[26] 10	c9	c9
19	REGISTER response	[26] 10	c9	c9	[26] 10	c8	c8
20	SUBSCRIBE request	[28] 8.1.1	c3	c3	[28] 8.1.1	c4	c4
21	SUBSCRIBE response	[28] 8.1.1	c4	c4	[28] 8.1.1	c3	c3
22	UPDATE request	[30] 6.1	c6	c6	[30] 6.2	c6	c6
23	UPDATE response	[30] 6.2	c6	c6	[30] 6.1	c6	c6
c1:	IF A.4/15 THEN m ELSE n/a	the REFER r	nethod exten	sion.			
c3:	IF A.4/23 THEN m ELSE n/a	recipient for e	event informa	ation.			
c4:	IF A.4/22 THEN m ELSE n/a	notifier of eve	ent informatio	on.			
c5:	IF A.4/14 THEN m ELSE n/a	reliability of p	provisional re	sponses exte	nsion.		
c6:	IF A.4/17 THEN m ELSE n/a	the SIP upda	te method ex	tension.			
c7:	IF A.4/27 THEN m ELSE n/a	the SIP MES	SAGE metho	od.			
c8:	IF A.4/1 THEN m ELSE n/a c	lient behavio	ur for registra	ition.			
c9:	IF A.4/2 THEN m ELSE n/a re	egistrar.					
c10:	IF A.4/3 THEN m ELSE n/a c	lient behavio	ur for INVITE	requests.			
c11:	IF A.4/4 THEN m ELSE n/a s	erver behavio	our for INVIT	⊨ requests.			
c12:	IF A.4/5 THEN m ELSE n/a s	ession releas	se.				
c20:	IF A.4/xx THEN m ELSE n/a.						

#### Table A.5: Supported methods

#### Error! No text of specified style in document.

# PROPOSED CHANGE

### A.2.1.4.1 Status-codes

#### Table A.6: Supported status-codes

Item	Header	Sending			Receiving			
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status	
1	100 (Trying)	[26] 21.1.1	n/a	n/a	[26] 21.1.1	m	m	
2	180 (Ringing)	[26] 21.1.2	c2	c2	[26] 21.1.2	c1	c1	
3	181 (Call Is Being Forwarded)	[26] 21.1.3	c2	c2	[26] 21.1.3	c1	c1	
4	182 (Queued)	[26] 21.1.4	c2	c2	[26] 21.1.4	c1	c1	
5	183 (Session Progress)	[26] 21.1.5	c1	c1	[26] 21.1.5	c1	c1	
6	200 (OK)	[26] 21.2.1			[26] 21.2.1			
7	202 (Accepted)	[28] 8.3.1	c3	c3	[28] 8.3.1	c3	c3	
8	300 (Multiple Choices)	[26] 21.3.1			[26] 21.3.1			
9	301 (Moved Permanently)	[26] 21.3.2			[26] 21.3.2			
10	302 (Moved Temporarily)	[26] 21.3.3			[26] 21.3.3			
11	305 (Use Proxy)	[26] 21.3.4			[26] 21.3.4			
12	380 (Alternative Service)	[26] 21.3.5			[26] 21.3.5			
13	400 (Bad Request)	[26] 21.4.1			[26] 21.4.1			
14	401 (Unauthorized)	[26] 21.4.2			[26] 21.4.2			
15	402 (Payment Required)	[26] 21.4.3			[26] 21.4.3			
16	403 (Forbidden)	[26] 21.4.4			[26] 21.4.4			
17	404 (Not Found)	[26] 21.4.5			[26] 21.4.5			
18	405 (Method Not Allowed)	[26] 21.4.6			[26] 21.4.6			
19	406 (Not Acceptable)	[26] 21.4.7			[26] 21.4.7			
20	407 (Proxy Authentication Required)	[26] 21.4.8			[26] 21.4.8			
21	408 (Request Timeout)	[26] 21.4.9			[26] 21.4.9			
22	410 (Gone)	[26] 21.4.10			[26] 21.4.10			
<u>22A</u>	412 (Precondition Failed)	[70] 7.2.1	<u>c20</u>	<u>c20</u>	[70] 7.2.1	<u>c20</u>	<u>c20</u>	
23	413 (Request Entity Too Large)	[26] 21.4.11			[26] 21.4.11			
24	414 (Request-URI Too Large)	[26] 21.4.12			[26] 21.4.12			
25	415 (Unsupported Media Type)	[26] 21.4.13			[26] 21.4.13			
26	416 (Unsupported URI Scheme)	[26] 21.4.14			[26] 21.4.14			
27	420 (Bad Extension)	[26] 21.4.15			[26] 21.4.15			
28	421 (Extension Required)	[26] 21.4.16			[26] 21.4.16			
29	423 (Interval Too Brief)	[26] 21.4.17	c4	c4	[26] 21.4.17	m	m	
30	480 (Temporarily Unavailable)	[26] 21.4.18			[26] 21.4.18			
31	481 (Call/Transaction Does Not Exist)	[26] 21.4.19			[26] 21.4.19			
32	482 (Loop Detected)	[26] 21.4.20			[26] 21.4.20			
33	483 (Too Many Hops)	[26] 21.4.21			[26] 21.4.21			
34	484 (Address Incomplete)	[26] 21.4.22			[26] 21.4.22			
35	485 (Ambiguous)	[26] 21.4.23			[26] 21.4.23			
36	486 (Busy Here)	[26] 21.4.24			[26] 21.4.24			
37	487 (Request Terminated)	[26] 21.4.25			[26] 21.4.25	ļ		
38	488 (Not Acceptable Here)	[26] 21.4.26	-	-	[26] 21.4.26	L		
39	489 (Bad Event)	[28] 7.3.2	c3	c3	[28] 7.3.2	c3	c3	
40	491 (Request Pending)	[26] 21.4.27			[26] 21.4.27			
41	493 (Undecipherable)	[26] 21.4.28	-5	-5	[26] 21.4.28	-0	-0	
41A	Required)	[48] 2	C5	C5	[48] 2	Ср	Ср	
42	500 (Internal Server Error)	[26] 21.5.1			[26] 21.5.1	ļ		
43	501 (Not Implemented)	[26] 21.5.2			[26] 21.5.2			

3GPP

ltem	Header		Sending		F	Receiving			
		Ref.	RFC	Profile	Ref.	RFC	Profile		
			status	status		status	status		
44	502 (Bad Gateway)	[26] 21.5.3			[26] 21.5.3				
45	503 (Service Unavailable)	[26] 21.5.4			[26] 21.5.4				
46	504 (Server Time-out)	[26] 21.5.5			[26] 21.5.5				
47	505 (Version not	[26] 21.5.6			[26] 21.5.6				
	supported)								
48	513 (Message Too Large)	[26] 21.5.7			[26] 21.5.7				
49	580 (Precondition Failure)	[30] 8			[30] 8				
50	600 (Busy Everywhere)	[26] 21.6.1			[26] 21.6.1				
51	603 (Decline)	[26] 21.6.2			[26] 21.6.2				
52	604 (Does Not Exist	[26] 21.6.3			[26] 21.6.3				
	Anywhere)								
53	606 (Not Acceptable)	[26] 21.6.4			[26] 21.6.4				
c1:	IF A.5/9 THEN m ELSE n/a	INVITE respo	nse.						
c2:	IF A.5/9 THEN o ELSE n/a -	- INVITE respon	nse.						
c3:	IF A.4/20 THEN m ELSE n/a	1 SIP specific	event notifica	tion extension	on.				
c4:	IF A.5/19 OR A.5/21 THEN r	m ELSE n/a F	REGISTER re	sponse or Sl	JBSCRIBE resp	ponse.			
c5:	IF A.4/37 AND A.4/2 THEN I	m ELSE n/a s	security mech	anism agreei	ment for the sea	ssion initiati	on protocol		
	and registrar.								
c6:	IF A.4/37 THEN m ELSE n/a	1 security med	chanism agree	ement for the	e session initiati	on protocol			
<u>c20:</u>	IF A.4/xx THEN m ELSE n/a								

# PROPOSED CHANGE - new subclause

### A.2.1.4.10A PUBLISH method

Editor's note: The base draft does not yet contain an analysis of header usage within this method, and therefore this clause will have to be reviewed and completed when such an analysis is available.

#### Prerequisite A.5/15A – PUBLISH request

### Table A.104A: Supported headers within the PUBLISH request

Item	Header	Sending			Receiving			
		Ref.	RFC	Profile	Ref.	RFC	Profile	
			status	status		status	status	
1	Accept-Contact	[56B] 9.2	<u>c24</u>	<u>c24</u>	[56B] 9.2	<u>n/a</u>	<u>n/a</u>	
2	Allow	[26] 20.5	<u>o</u>	<u>o</u>	[26] 20.5	<u>m</u>	<u>m</u>	
3	Allow-Events	[26] 7.2.2	<u>c1</u>	<u>c1</u>	[26] 7.2.2	<u>c2</u>	<u>c2</u>	
4	Authorization	[26] 20.7	<u>c3</u>	<u>c3</u>	[26] 20.7	<u>c3</u>	<u>c3</u>	
5	Call-ID	[26] 20.8	m	m	[26] 20.8	m	m	
6	Call-Info	[26] 20.9	0	0	[26] 20.9	0	0	
<u>7</u>	Content-Disposition	[26] 20.11	<u>0</u>	<u>o</u>	[26] 20.11	<u>m</u>	<u>m</u>	
8	Content-Encoding	[26] 20.12	0	<u>0</u>	[26] 20.12	<u>m</u>	m	
9	Content-Language	[26] 20.13	0	<u>0</u>	[26] 20.13	m	m	
<u>10</u>	Content-Length	[26] 20.14	<u>m</u>	<u>m</u>	[26] 20.14	<u>m</u>	<u>m</u>	
<u>11</u>	Content-Type	[26] 20.15	<u>m</u>	<u>m</u>	[26] 20.15	<u>m</u>	<u>m</u>	
<u>12</u>	Cseq	[26] 20.16	<u>m</u>	<u>m</u>	[26] 20.16	<u>m</u>	<u>m</u>	
<u>13</u>	Date	[26] 20.17	<u>c4</u>	<u>c4</u>	[26] 20.17	<u>m</u>	<u>m</u>	
14	Event	[28] 8.2.1	m	m	[28] 8.2.1	m	m	
<u>15</u>	Expires	[26]	<u>o (note 1)</u>	<u>o (note 1)</u>	[26]	<u>m</u>	<u>m</u>	
		20.19,			20.19,			
		[ <u>70]</u> 7.1.1			[ <u>70] 7.1.1</u>			
<u>16</u>	<u>From</u>	[26] 20.20	<u>m</u>	<u>m</u>	[26] 20.20	<u>m</u>	<u>m</u>	
<u>17</u>	In-Reply-To	[26] 20.21	<u>o</u>	<u>o</u>	[26] 20.21	<u>o</u>	<u>o</u>	
<u>18</u>	Max-Forwards	[26] 20.22	<u>m</u>	<u>m</u>	[26] 20.22	<u>n/a</u>	<u>n/a</u>	
<u>19</u>	MIME-Version	[26] 20.24	<u>o</u>	<u>o</u>	[26] 20.24	<u>m</u>	<u>m</u>	
<u>20</u>	Organization	[26] 20.25	<u>o</u>	<u>o</u>	[26] 20.25	<u>o</u>	<u>o</u>	
<u>21</u>	P-Access-Network-Info	[52] 4.4	<u>c15</u>	<u>c16</u>	<u>[52] 4.4</u>	<u>c15</u>	<u>c17</u>	
<u>22</u>	P-Asserted-Identity	[ <u>34] 9.1</u>	<u>n/a</u>	<u>n/a</u>	[ <u>34] 9.1</u>	<u>c11</u>	<u>c11</u>	
<u>23</u>	P-Called-Party-ID	[52] 4.2	X	<u>×</u>	[ <u>52] 4.2</u>	<u>c13</u>	<u>c13</u>	
<u>24</u>	P-Charging-Function-	[ <u>52] 4.5</u>	<u>c20</u>	<u>c21</u>	[ <u>52] 4.5</u>	<u>c20</u>	<u>c21</u>	
	<u>Addresses</u>							
<u>25</u>	P-Charging-Vector	[ <u>52] 4.6</u>	<u>c18</u>	<u>c19</u>	[ <u>52] 4.6</u>	<u>c18</u>	<u>c19</u>	
<u>26</u>	P-Preferred-Identity	[ <u>34] 9.2</u>	<u>c11</u>	<u>c7</u>	[ <u>34] 9.2</u>	<u>n/a</u>	<u>n/a</u>	
<u>27</u>	P-Visited-Network-ID	[ <u>52] 4.3</u>	<u>x (note 3)</u>	X	[ <u>52] 4.3</u>	<u>c14</u>	<u>n/a</u>	
<u>28</u>	<u>Priorità</u>	[26] 20.26	<u>o</u>	<u>0</u>	[ <u>26] 20.26</u>	<u>0</u>	<u>0</u>	
<u>29</u>	Privacy	[33] 4.2	<u>c12</u>	<u>c12</u>	<u>[33] 4.2</u>	<u>c12</u>	<u>c12</u>	
<u>30</u>	Proxy-Authorization	[26] 20.28	<u>c5</u>	<u>c5</u>	[26] 20.28	<u>n/a</u>	<u>n/a</u>	
<u>31</u>	Proxy-Require	[26] 20.29	<u>0</u>	<u>n/a</u>	[26] 20.29	<u>n/a</u>	<u>n/a</u>	
<u>32</u>	Reason	[ <u>34A] 2</u>	<u>c8</u>	<u>c8</u>	[34A] 2	<u>c8</u>	<u>c8</u>	
<u>33</u>	Reject-Contact	[56B] 9.2	<u>c22</u>	<u>c22</u>	[56B] 9.2	<u>n/a</u>	<u>n/a</u>	
<u>34</u>	Request-Disposition	[56B] 9.1	<u>c22</u>	<u>c22</u>	[56B] 9.1	<u>n/a</u>	<u>n/a</u>	
<u>35</u>	Reply-To	26 20.31	<u>0</u>	<u>0</u>	[26] 20.31	<u>o</u>	<u>0</u>	
<u>36</u>	Require	[26] 20.32	<u>o</u>	<u>o</u>	[26] 20.32	<u>m</u>	<u>m</u>	
<u>37</u>	Route	[26] 20.34	<u>m</u>	<u>m</u>	[26] 20.34	<u>n/a</u>	<u>n/a</u>	
<u>38</u>	Security-Client	[48] 2.3.1	<u>c9</u>	<u>c9</u>	[48] 2.3.1	<u>n/a</u>	<u>n/a</u>	
<u>39</u>	Security-Verify	[ <u>48] 2.3.1</u>	<u>c10</u>	<u>c10</u>	[ <u>48] 2.3.1</u>	<u>n/a</u>	<u>n/a</u>	
<u>40</u>	SIP-If-Match	[70] 7.3.2	<u>0</u>	<u>0</u>	<u>[70] 7.3.2</u>	<u>m</u>	<u>m</u>	
<u>41</u>	Subject	[26] 20.36	<u>0</u>	<u>0</u>	[26] 20.36	<u>0</u>	<u>0</u>	
<u>42</u>	Supported	[26]	<u>o</u>	<u>o</u>	[26]	<u>m</u>	<u>m</u>	
		<u>20.37,</u>			$\frac{20.37}{100174}$			
40	Time a stance	26 7.1	- 0	-0	<u> 26  7.1</u>		+	
43		[26] 20.38	<u>Cb</u>	<u>Cb</u>	<u>[26] 20.38</u>	<u>m</u>	<u>m</u>	
44	10	[26] 20.39	<u>m</u>	<u>m</u>	[26] 20.39	<u>m</u>	<u>m</u>	
<u>40</u> 40			<u>u</u>	<u>u</u>	[20] 20.41	<u>u</u>	<u>u</u>	
40	Vid	20 20.42	m	l m	20 20.42	l m	m	

c1·	IF A 4/20 THEN o FLSE n/a SIP specific event potification extension
<u>01.</u> 02:	E = A/20 THEN m ELSE $p/a$ SID specific event patification extension
<u>62.</u>	$\Gamma = A_{1/2}$ THEN IN ELSE $n/a = -$ subspitiation extension.
<u>CS.</u>	IF A.4// THEN THE SE T/a authentication between OA and OA.
<u>c4:</u>	IF A.4/11 THEN O ELSE D/a Insertion of date in requests and responses.
<u>c5:</u>	IF A.4/8A I HEN m ELSE n/a authentication between UA and proxy.
<u>c6:</u>	IF A.4/6 THEN o ELSE n/a timestamping of requests.
<u>c7:</u>	IF A.3/1 AND A.4/25 THEN o ELSE n/a UE and private extensions to the Session Initiation Protocol
	(SIP) for asserted identity within trusted networks.
<u>c8:</u>	IF A.4/38 THEN o ELSE n/a the Reason header field for the session initiation protocol.
c9:	IF A.4/37 THEN o ELSE n/a security mechanism agreement for the session initiation protocol (note 2).
c10:	IF A.4/37 THEN m ELSE n/a security mechanism agreement for the session initiation protocol.
c11:	IF A.4/25 THEN o ELSE n/a private extensions to the Session Initiation Protocol (SIP) for asserted
	identity within trusted networks.
c12:	IF A.4/26 THEN o ELSE n/a a privacy mechanism for the Session Initiation Protocol (SIP).
c13:	IF A.4/32 THEN o ELSE n/a the P-Called-Party-ID extension.
c14:	IF A.4/33 THEN o ELSE n/a the P-Visited-Network-ID extension.
c15:	IF A.4/34 THEN o ELSE n/a the P-Access-Network-Info header extension.
c16:	IF A.4/34 AND A.3/1 THEN m ELSE n/a the P-Access-Network-Info header extension and UE.
c17:	IF A.4/34 AND (A.3/7A OR A.3/7D) THEN m ELSE n/a the P-Access-Network-Info header extension and
	AS acting as terminating UA or AS acting as third-party call controller.
c18:	IF A.4/36 THEN o ELSE n/a the P-Charging-Vector header extension.
c19:	IF A.4/36 THEN m ELSE n/a the P-Charging-Vector header extension.
c20:	IF A.4/35 THEN o ELSE n/a the P-Charging-Function-Addresses header extension.
c21:	IF A.4/35 THEN m ELSE n/a the P-Charging-Function-Addresses header extension.
c22:	IF A.4/40 THEN o ELSE p/a caller preferences for the session initiation protocol.
c24:	IF A.162/50 THEN m ELSE n/a caller preferences for the session initiation protocol.
NOTE 1:	The strength of this requirement is RECOMMENDED rather than OPTIONAL.
NOTE 2	Support of this header in this method is dependent on the security mechanism and the security architecture
	which is implemented
NOTE 3	The strength of this requirement in REC 3455 [52] is SHOULD NOT rather than MUST NOT
<u>NOTE 3:</u>	The strength of this requirement in RFC 3455 [52] is SHOULD NOT, rather than MUST NOT.

Prerequisite A.5/15A - - PUBLISH request

#### Table A.104B: Supported message bodies within the PUBLISH request

<u>Item</u>	<u>Header</u>	<u>Sending</u>			Receiving		
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status
1							

#### Prerequisite A.5/15B - - PUBLISH response

#### Table A.104C: Supported headers within the PUBLISH response - all remaining status-codes

Item	Header		Sending			Receiving	
		Ref.	RFC	Profile	Ref.	RFC	Profile
			status	status		status	status
1	Call-ID	[26] 20.8	m	m	[26] 20.8	m	m
2	Call-Info	[26] 24.9	0	0	[26] 24.9	m	m
3	Content-Disposition	[26] 20.11	0	0	[26] 20.11	m	m
4	Content-Encoding	[26] 20.12	0	0	[26] 20.12	m	m
5	Content-Language	[26] 20.13	0	0	[26] 20.13	m	m
6	Content-Length	[26] 20.14	m	m	[26] 20.14	m	m
7	Content-Type	[26] 20.15	m	m	[26] 20.15	m	m
8	Cseq	[26] 20.16	m	m	[26] 20.16	m	m
9	Date	[26] 20.17	<u>c1</u>	<u>c1</u>	[26] 20.17	m	m
10	From	[26] 20.20	m	m	[26] 20.20	m	m
11	MIME-Version	[26] 20.24	0	0	[26] 20.24	m	m
12	Organization	[26] 20.25	0	0	[26] 20.25	0	0
13	P-Access-Network-Info	[52] 4.4	<u>c5</u>	<u>c6</u>	[52] 4.4	<u>c5</u>	<u>c7</u>
14	P-Asserted-Identity	[34] 9.1	n/a	n/a	[34] 9.1	<u>c3</u>	<u>c3</u>
15	P-Charging-Function-	[52] 4.5	c10	c11	[52] 4.5	c10	c11
_	Addresses						
<u>16</u>	P-Charging-Vector	[52] 4.6	<u>c8</u>	<u>c9</u>	[52] 4.6	<u>c8</u>	<u>c9</u>
17	P-Preferred-Identity	[34] 9.2	<u>c3</u>	X	[34] 9.2	n/a	n/a
18	Privacy	[33] 4.2	<u>c4</u>	<u>c4</u>	[33] 4.2	<u>c4</u>	<u>c4</u>
<u>19</u>	Require	[26] 20.32	<u>m</u>	<u>m</u>	[26] 20.32	<u>m</u>	<u>m</u>
20	Server	[26] 20.35	<u>0</u>	<u>o</u>	[26] 20.35	<u>0</u>	<u>0</u>
21	Timestamp	[26] 20.38	<u>m</u>	<u>m</u>	[26] 20.38	<u>c2</u>	<u>c2</u>
22	To	[26] 20.39	<u>m</u>	<u>m</u>	[26] 20.39	<u>m</u>	<u>m</u>
23	User-Agent	[26] 20.41	<u>m</u>	<u>m</u>	[26] 20.41	i	i
24	Via	[26] 20.42	<u>m</u>	<u>m</u>	[26] 20.42	<u>m</u>	<u>m</u>
25	Warning	[26] 20.43	0	<u>0</u>	[26] 20.43	<u>0</u>	<u>0</u>
<u>c1:</u>	IF A.4/11 THEN o ELSE n/a i	nsertion of da	ate in reques	ts and respor	nses.		
<u>c2:</u>	IF A.4/6 THEN m ELSE n/a ti	mestamping	of requests.				
<u>c3:</u>	IF A.4/25 THEN o ELSE n/a p	orivate extens	sions to the S	Session Initiat	tion Protocol	(SIP) for ass	<u>erted</u>
	identity within trusted networks.						
<u>c4:</u>	IF A.4/26 THEN o ELSE n/a a	a privacy med	chanism for t	<u>he Session Ir</u>	nitiation Proto	<u>ocol (SIP).</u>	
<u>c5:</u>	<u>IF A.4/34 THEN o ELSE n/a t</u>	he P-Access	-Network-Info	<u>o header exte</u>	ension.		
<u>c6:</u>	IF A.4/34 AND A.3/1 THEN m E	<u>LSE n/a th</u>	ne P-Access-	Network-Info	header exter	nsion and UE	<u>.</u>
<u>c7:</u>	IF A.4/34 AND (A.3/7A OR A.3/7	<u>7D) THEN m</u>	<u>ELSE n/a</u>	the P-Acces	s-Network-In	fo header ext	ension and
	AS acting as terminating UA or A	AS acting as	third-party ca	all controller.			
<u>C8:</u>	<u>IF A.4/36 THEN 0 ELSE N/a - t</u>	ne P-Chargir	ng-vector hea	ader extensio	<u>n.</u>		
<u>C9:</u>	IF A.4/36 THEN M ELSE N/a	the P-Chargi	ng-vector he	ader extension	<u>on.</u> Inder externet	<b></b>	
010:		the P-Chargin	Ig-FUNCTION-/	Addrosses Ne	eauer extensi	<u>un.</u>	
	IF A.4/33 ITIEN III ELSE II/a	vroepopoo	hig status is l		DED rother t		A1
INUTE:		<u>) response, ti</u>	nis status IS I				<u>AL.</u>

#### Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/7 - - 200 (OK)

#### Table A.104D: Supported headers within the PUBLISH response

<u>Item</u>	Header	<u>Sending</u>			Receiving			
		<u>Ref.</u>	<u>RFC</u>	Profile	<u>Ref.</u>	<u>RFC</u>	Profile	
			status	status		status	status	
1	Allow	[26] 20.5	<u>o</u>	<u>0</u>	[26] 20.5	<u>m</u>	<u>m</u>	
2	Authentication-Info	[26] 20.6	<u>c1</u>	<u>c1</u>	[26] 20.6	<u>c2</u>	<u>c2</u>	
<u>3</u>	Expires	[26]	<u>m</u>	<u>m</u>	[26]	<u>m</u>	<u>m</u>	
		20.19,			20.19,			
		[70] 7.1.1			[70] 7.1.1			
<u>4</u>	<u>SIP-Etag</u>	[70] 7.3.1	<u>m</u>	<u>m</u>	[ <u>70] 7.3.1</u>	<u>m</u>	<u>m</u>	
<u>5</u>	Supported	[26] 20.37	<u>m</u>	m	[26] 20.37	m	<u>m</u>	
c1:	IF A.4/7 THEN o ELSE n/a au	uthentication	between UA	and UA.				
c2:	IF A.4/7 THEN m ELSE n/a a	uthentication	between UA	and UA.				

#### Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/8 OR A.6/9 OR A.6/10 OR A.6/11 OR A.6/12 OR A.6/35 - - 3xx or 485 (Ambiguous)

#### Table A.104E: Supported headers within the PUBLISH response

<u>ltem</u>	Header	<u>Sending</u>			Receiving			
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
1	Allow	[26] 20 5	0	0	[26] 20 5	m	m	
	Contact	[20] 20.3		<u> </u>	[20] 20.0	<u> </u>	<u> </u>	
<u> </u>	Contact	20 20.10	<u>o (note)</u>	0	20 20.10	<u>m</u>	m	
<u>3</u>	Error-Info	[26] 20.18	<u>0</u>	<u>o</u>	[ <u>26] 20.18</u>	<u>0</u>	<u>o</u>	
<u>4</u>	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	<u>m</u>	
NOTE:	The strength of this requirement	is <b>RECOMM</b>	IENDED rath	er than OPTI	ONAL.			

Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/8 OR A.6/9 OR A.6/10 OR A.6/11OR A.6/12 - 401 (Unauthorized)

#### Table A.104F: Supported headers within the PUBLISH response

Item	Header	Sending			Receiving			
		<u>Ref.</u>	<u>RFC</u> status	Profile status	Ref.	<u>RFC</u> status	Profile status	
<u>1</u>	Allow	[26] 20.5	<u>0</u>	<u>0</u>	[26] 20.5	<u>m</u>	<u>m</u>	
2	Error-Info	[26] 20.18	<u>0</u>	<u>0</u>	[26] 20.18	<u>0</u>	<u>o</u>	
<u>3</u>	Proxy-Authenticate	[26] 20.27	<u>c1</u>	<u>c1</u>	[26] 20.27	<u>c1</u>	<u>c1</u>	
4	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	<u>m</u>	
<u>5</u>	WWW-Authenticate	[26] 20.44	<u>m</u>	<u>m</u>	[26] 20.44	<u>m</u>	<u>m</u>	
<u>c1:</u>	IF A.5/7 THEN m ELSE n/a :	support of aut	hentication b	etween UA a	nd UA.			

#### Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/17 OR A.6/23 OR A.6/30 OR A.6/36 OR A.6/42 OR A.6/45 OR A.6/50 OR A.6/51 - - 404, 413, 480, 486, 500, 503, 600, 603

#### Table A.104G: Supported headers within the PUBLISH response

<u>ltem</u>	Header		<u>Sending</u>		Receiving			
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
<u>1</u>	Allow	[26] 20.5	<u>o</u>	<u>o</u>	[ <u>26] 20.5</u>	<u>m</u>	<u>m</u>	
<u>2</u>	Error-Info	[26] 20.18	<u>o</u>	<u>o</u>	[ <u>26] 20.18</u>	<u>0</u>	<u>0</u>	
<u>3</u>	Retry-After	[26] 20.33	<u>o</u>	<u>o</u>	[26] 20.33	<u>0</u>	<u>0</u>	
4	Supported	[26] 20.37	m	m	[26] 20.37	m	m	

Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/18 - - 405 (Method Not Allowed)

#### Table A.104H: Supported headers within the PUBLISH response

<u>ltem</u>	Header	<u>Sending</u>			Receiving			
		<u>Ref.</u> <u>RFC</u> <u>Profile</u>			<u>Ref.</u>	<u>RFC</u>	Profile	
			status	<u>status</u>		<u>status</u>	<u>status</u>	
<u>1</u>	Allow	[26] 20.5	m	<u>m</u>	[26] 20.5	<u>m</u>	<u>m</u>	
<u>2</u>	Error-Info	[26] 20.18	<u>o</u>	<u>o</u>	[ <u>26] 20.18</u>	<u>0</u>	<u>0</u>	
<u>3</u>	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	<u>m</u>	

Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/20 - - 407 (Proxy Authentication Required)

#### Table A.104I: Supported headers within the PUBLISH response

<u>ltem</u>	Header	Sending			Receiving			
		<u>Ref.</u>	<u>RFC</u> <u>status</u>	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
1	Allow	[26] 20.5	<u>o</u>	<u>o</u>	[26] 20.5	<u>m</u>	<u>m</u>	
2	Error-Info	[26] 20.18	<u>o</u>	<u>o</u>	[26] 20.18	<u>0</u>	<u>0</u>	
3	Proxy-Authenticate	[26] 20.27	<u>c1</u>	<u>c1</u>	[26] 20.27	<u>c1</u>	<u>c1</u>	
4	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	<u>m</u>	
<u>5</u>	WWW-Authenticate	[26] 20.44	<u>o</u>	<u>o</u>	[26] 20.44	<u>0</u>	<u>0</u>	
c1:	IF A.5/7 THEN m ELSE n/a support of authentication between UA and UA.							

Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/25 - - 415 (Unsupported Media Type)

#### Table A.104J: Supported headers within the PUBLISH response

Item	Header	Sending			Receiving		
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status
<u>1</u>	Accept	[26] 20.1	<u>o.1</u>	<u>o.1</u>	[26] 20.1	<u>m</u>	<u>m</u>
2	Accept-Encoding	[26] 20.2	<u>o.1</u>	<u>o.1</u>	[26] 20.2	<u>m</u>	<u>m</u>
3	Accept-Language	[26] 20.3	<u>o.1</u>	<u>o.1</u>	[26] 20.3	<u>m</u>	<u>m</u>
4	Allow	[26] 20.5	<u>0</u>	<u>o</u>	[26] 20.5	<u>m</u>	<u>m</u>
<u>5</u>	Error-Info	[26] 20.18	<u>o</u>	<u>o</u>	[26] 20.18	<u>o</u>	<u>0</u>
<u>6</u>	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	m
<u>o.1</u>	At least one of these capabilities	s is supported	<u>.</u>				

#### Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/27 - - 420 (Bad Extension)

#### Table A.104K: Supported headers within the PUBLISH response

<u>ltem</u>	<u>Header</u>	Sending			Receiving		
		<u>Ref.</u>	<u>RFC</u>	Profile status	<u>Ref.</u>	<u>RFC</u>	Profile status
			<u>518105</u>	Status		<u>518105</u>	Status
<u>1</u>	Allow	[26] 20.5	<u>o</u>	<u>o</u>	[26] 20.5	<u>m</u>	<u>m</u>
<u>2</u>	Error-Info	[26] 20.18	<u>o</u>	<u>0</u>	[ <u>26] 20.18</u>	<u>o</u>	<u>0</u>
<u>3</u>	<u>Supported</u>	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	<u>m</u>
4	Unsupported	[26] 20.40	m	m	[26] 20.40	m	m

Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/28 OR A.6/41A - - 421 (Extension Required), 494 (Security Agreement Required)

#### Table A.104L: Supported headers within the PUBLISH response

Item	Header	Sending			Receiving			
		<u>Ref.</u>	RFC status	Profile status	<u>Ref.</u>	RFC status	Profile status	
1	Allow	[26] 20.5	0	<u>o</u>	[26] 20.5	m	<u>m</u>	
2	Error-Info	[26] 20.18	0	<u>o</u>	[26] 20.18	0	<u>o</u>	
<u>3</u>	Security-Server	[48] <u>2</u>	X	X	[48] <u>2</u>	<u>c1</u>	<u>c1</u>	
4	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	<u>m</u>	
<u>c1:</u>	IF A.4/37 THEN m ELSE n/a security mechanism agreement for the session initiation protocol.							

Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/29 - - 423 (Interval Too Brief)

#### Table A.104M: Supported headers within the PUBLISH response

<u>Item</u>	<u>Header</u>	Sending			Receiving		
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status
<u>1</u>	Allow	[26] 20.5	<u>0</u>	0	[26] 20.5	<u>E</u>	<u>m</u>
2	Error-Info	[26] 20.18	<u>0</u>	<u>0</u>	[26] 20.18	<u>0</u>	<u>0</u>
<u>3</u>	<u>Min-Expires</u>	[ <u>26]</u> 20.23, [70] 6	<u>m</u>	El	[ <u>26]</u> 20.23, [70] 6	EI	E
<u>4</u>	<u>Supported</u>	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	<u>m</u>

Prerequisite A.5/15B - - PUBLISH response

Prerequisite: A.6/34 - - 484 (Address Incomplete)

#### Table A.104N: Supported headers within the PUBLISH response

<u>ltem</u>	Header	<u>Sending</u>			Receiving		
		Ref.	<u>RFC</u>	Profile	Ref.	<u>RFC</u>	Profile
			status	status		<u>status</u>	status
1	Allow	[26] 20.5	<u>o</u>	<u>o</u>	[26] 20.5	<u>m</u>	<u>m</u>
2	Error-Info	[26] 20.18	<u>0</u>	<u>0</u>	[ <u>26] 20.18</u>	<u>o</u>	<u>0</u>
<u>3</u>	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	m	<u>m</u>

#### Prerequisite A.5/15B - - PUBLISH response

#### Prerequisite: A.6/39 - - 489 (Bad Event)

#### Table A.104O: Supported headers within the PUBLISH response

<u>ltem</u>	<u>Header</u>	Sending			Receiving		
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status
1	Allow	[26] 20.5	0	0	[26] 20.5	m	m
2	Allow-Events	[28] 8.2.2	m	m	[28] 8.2.2	m	m
3	Error-Info	[26] 20.18	0	0	[26] 20.18	<u>0</u>	<u>0</u>

Prerequisite A.5/15B - - PUBLISH response

#### Table A.104P: Supported message bodies within the PUBLISH response

<u>Item</u>	Header	Sending			Receiving		
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status
<u>1</u>							

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# PROPOSED CHANGE

# A.2.2.2 Major capabilities

#### Table A.162: Major capabilities

Item	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
3	initiate session release?	[26] 16	х	c27
4	stateless proxy behaviour?	[26] 16.11	0.1	c28
5	stateful proxy behaviour?	[26] 16.2	o.1	c29
6	forking of initial requests?	[26] 16.1	c1	c31
7	support of TLS connections on the	[26] 16.7	0	n/a
	upstream side?			
8	support of TLS connections on the downstream side?	[26] 16.7	0	n/a
8A	authentication between UA and proxy?	[26] 20.28, 22.3	0	х
9	insertion of date in requests and responses?	[26] 20.17	0	0
10	suppression or modification of alerting information data?	[26] 20.4	0	0
11	reading the contents of the Require header before proxying the request or response?	[26] 20.32	0	0
12	adding or modifying the contents of the Require header before proxying the REGISTER request or response	[26] 20.32	0	m
13	adding or modifying the contents of the Require header before proxying the request or response for methods other than REGISTER?	[26] 20.32	0	0
14	being able to insert itself in the subsequent transactions in a dialog (record-routing)?	[26] 16.6	0	c2
15	the requirement to be able to use separate URIs in the upstream direction and downstream direction when record routeing?	[26] 16.7	c3	с3
16	reading the contents of the Supported header before proxving the response?	[26] 20.37	0	0
17	reading the contents of the Unsupported header before proxying the 420 response to a REGISTER?	[26] 20.40	0	m
18	reading the contents of the Unsupported header before proxying the 420 response to a method other than REGISTER?	[26] 20.40	0	0
19	the inclusion of the Error-Info header in 3xx - 6xx responses?	[26] 20.18	0	0
19A	reading the contents of the Organization header before proxying the request or response?	[26] 20.25	0	0
19B	adding or concatenating the Organization header before proxying the request or response?	[26] 20.25	0	0
19C	reading the contents of the Call-Info header before proxying the request or response?	[26] 20.25	0	0
19D	adding or concatenating the Call-Info header before proxying the request or response?	[26] 20.25	0	0
19E	delete Contact headers from 3xx responses prior to relaying the	[26] 20	0	0

	response?			
	Extensions			
20	the SIP INFO method?	[25]	0	0
21	reliability of provisional responses in SIP?	[27]	0	i
22	the REFER method?	[36]	0	0
23	integration of resource management and SIP?	[30]	0	i
24	the SIP UPDATE method?	[29]	c4	i
26	SIP extensions for media authorization?	[31]	0	c7
27	SIP specific event notification	[28]	0	i
28	the use of NOTIFY to establish a dialog	[28] 4.2	0	n/a
29	Session Initiation Protocol Extension Header Field for Registering Non- Adjacent Contacts	[35]	0	c6
30	extensions to the Session Initiation Protocol (SIP) for asserted identity within trusted networks	[34]	0	m
30A	act as first entity within the trust domain for asserted identity	[34]	c5	c8
30B	act as subsequent entity within trust network that can route outside the trust network	[34]	c5	c9
31	a privacy mechanism for the Session Initiation Protocol (SIP)	[33]	0	m
31A	request of privacy by the inclusion of a Privacy header	[33]	n/a	n/a
31B	application of privacy based on the received Privacy header	[33]	c10	c12
31C	passing on of the Privacy header transparently	[33]	c10	c13
31D	application of the privacy option "header" such that those headers which cannot be completely expunged of identifying information without the assistance of intermediaries are obscured?	[33] 5.1	X	x
31E	application of the privacy option "session" such that anonymization for the session(s) initiated by this message occurs?	[33] 5.2	n/a	n/a
31F	application of the privacy option "user" such that user level privacy functions are provided by the network?	[33] 5.3	n/a	n/a
31G	application of the privacy option "id" such that privacy of the network asserted identity is provided by the network?	[34] 7	c11	c12
32	Session Initiation Protocol Extension Header Field for Service Route Discovery During Registration	[38]	0	c30
33	a messaging mechanism for the Session Initiation Protocol (SIP)	[50]	0	m
34	Compressing the Session Initiation Protocol	[55]	0	c7
35	private header extensions to the session initiation protocol for the 3rd- Generation Partnership Project (3GPP)?	[52]	0	m
36	the P-Associated-URI header extension?	[52] 4.1	c14	c15
37	the P-Called-Party-ID header extension?	[52] 4.2	c14	c16
38	the P-Visited-Network-ID header extension?	[52] 4.3	c14	c17
39	reading, or deleting the P-Visited-	[52] 4.3	c18	n/a

	request or response?			
41	the P-Access-Network-Info header extension?	[52] 4.4	c14	c19
42	act as first entity within the trust domain for access network information?	[52] 4.4	c20	c21
43	act as subsequent entity within trust network for access network information that can route outside the trust network?	[52] 4.4	c20	c22
44	the P-Charging-Function-Addresses header extension?	[52] 4.5	c14	m
44A	adding, deleting or reading the P- Charging-Function-Addresses header before proxying the request or response?	[52] 4.6	c25	c26
45	the P-Charging-Vector header extension?	[52] 4.6	c14	m
46	adding, deleting, reading or modifying the P-Charging-Vector header before proxying the request or response?	[52] 4.6	c23	c24
47	security mechanism agreement for the session initiation protocol?	[48]	0	c7
48	the Reason header field for the session initiation protocol	[34A]	0	0
49	an extension to the session initiation protocol for symmetric response routeing	[56A]	0	x
50	caller preferences for the session initiation protocol?	[56B]	c33	c33
50A	the proxy-directive within caller- preferences?	[56B] 9.1	0.4	0.4
50B	the cancel-directive within caller- preferences?	[56B] 9.1	0.4	0.4
50C	the fork-directive within caller- preferences?	[56B] 9.1	0.4	c32
50D	the recurse-directive within caller- preferences?	[56B] 9.1	0.4	0.4
50E	the parallel-directive within caller- preferences?	[56B] 9.1	0.4	c32
50F	the queue-directive within caller- preferences?	[56B] 9.1	0.4	0.4
<u>xx</u>	an event state publication extension to the session initiation protocol?	[70]	<u>0</u>	m

-	
c1:	IF A.162/5 THEN o ELSE n/a stateful proxy behaviour.
c2 <sup>.</sup>	IF A 3/2 OR A 3/3A OR A 3/4 THEN m FLSE 0 P-CSCE I-CSCE(THIG) or S-CSCE
02.	
03.	IF (A. 162/7 AND NOT A. 162/8) OR (NOT A. 162/7 AND A. 162/8) THEN III ELSE IF
	A.162/14 THEN 0 ELSE n/a TLS interworking with non-TLS else proxy insertion.
c4:	IF A.162/23 THEN m ELSE o integration of resource management and SIP.
c5 <sup>.</sup>	IF A 162/30 THEN o FLSE n/a extensions to the Session Initiation Protocol (SIP) for
00.	assorted identity within trusted networks
	asserted identity within trusted networks.
c6:	IF A.3/2 OR A.3/3A THEN m ELSE n/a P-CSCF or I-CSCF (THIG).
c7:	IF A.3/2 THEN m ELSE n/a P-CSCF.
c8·	IF A 3/2 AND A 162/30 THEN m ELSE n/a P-CSCE and extensions to the Session
00.	in A.G. 2 AND A. 102/00 MERCHINE Edit Internet and extensions to the dession
-	initiation Protocol (SIP) for asserted identity within trusted networks.
c9:	IF A.3/2 AND A.162/30 THEN m ELSE IF A.3/7C AND A.162/30 THEN o ELSE n/a
	S-CSCF or AS acting as proxy and extensions to the Session Initiation Protocol (SIP)
	for asserted identity within trusted networks (NOTE)
010.	If $A = 162/21$ THEN $a = 2$ EF SE $a/a = -a$ privacy machines for the Section latitation
C10.	IF A. 102/31 THEN 0.2 ELSE II/a a privacy mechanism for the Session initiation
	Protocol (SIP).
c11:	IF A.162/31B THEN o ELSE x application of privacy based on the received Privacy
	header
c12·	
-10	
C13:	IF A.162/31 AND (A.3/2 OR A.3/3 OR A.3/7C) THEN M ELSE h/a P-CSCF OR I-
	CSCF OR AS acting as a SIP proxy.
c14:	IF A.162/35 THEN 0.3 ELSE n/a private header extensions to the session initiation
	protocol for the 3rd-Generation Partnership Project (3GPP)
015	$F = A + 62/35$ AND (A 2/2 OD A 2/2) THEN IN THEN A ELSE $h_0$ private booder
C15.	IF A. 102/33 AND (A.3/2 OK A.3/3) THEIN II THEIN 0 ELSE I/A pivate fleader
	extensions to the session initiation protocol for the 3rd-Generation Partnership Project
	(3GPP) and P-CSCF or I-CSCF.
c16:	IF A.162/35 AND (A.3/2 OR A.3/3 OR A.3/4) THEN m ELSE n/a private header
	extensions to the session initiation protocol for the 3rd-Generation Partnership Project
	(2CBD) and D CCC or L CCCC or S CCCCC
47	
C17:	IF A.162/35 AND (A.3/2 OR A.3/3) THEN m ELSE n/a private header extensions to
	the session initiation protocol for the 3rd-Generation Partnership Project (3GPP) and
	P-CSCF or I-CSCF.
c18 <sup>.</sup>	IF A 162/38 THEN o FLSE n/a the P-Visited-Network-ID header extension
010.	$17 \wedge 162/36$ AND ( $\wedge 2/2 \cap D \wedge 2/3 \cap D \wedge 3/4 \cap D \wedge 3/7$ THEN as ELSE also private
019.	IF A. 162/35 AND (A.3/2 OR A.3/3 OR A.3/4 OR A.3/7 THEN III ELSE II/a private
	header extensions to the session initiation protocol for the 3rd-Generation Partnership
	Project (3GPP) and P-CSCF, I-CSCF, S-CSCF, AS acting as a proxy.
c20 <sup>.</sup>	IF A 162/41 THEN o FLSE n/a the P-Access-Network-Info beader extension
c21.	IF A 162/41 AND A 3/2 THEN IN ELSE $p/2 = the P_Access_Network_Info header$
021.	I A. 102/41 AND A.0/2 THEN III LESE 11/4 the F-Access-Network-Into header
	extension and P-CSCF.
c22:	IF A.162/41 AND A.3/4 THEN m ELSE n/a the P-Access-Network-Info header
	extension and S-CSCF.
c23 <sup>.</sup>	IF A 162/45 THEN o FLSE n/a the P-Charging-Vector header extension
020.	EA 162/16 THEN mELCE n/a the D Charging Voter header extension
024.	IF A. 102/45 THEN IT ELSE I/A the P-Charging-Vector header extension.
C25:	IF A.162/44 THEN 0 ELSE n/a the P-Charging-Function-Addresses header
	extension.
c26:	IF A.162/44 THEN m ELSE n/a the P-Charging-Function Addresses header
	extension.
c27·	IEA 3/2 OP A 3/4 THEN m ELSEX P-CSCE or S-CSCE
027.	
C28:	IF A.3/2 OR A.3/4 OR A.3/6 then m ELSE 0 P-CSCF of S-CSCF of MGCF.
c29:	IF A.3/2 OR A.3/4 OR A.3/6 then o ELSE m P-CSCF or S-CSCF of MGCF.
c30:	IF A.3/2 o ELSE i P-CSCF.
c31 <sup>.</sup>	IF A 3/4 THEN m FLSE x S-CSCE
001.	
- 00	
033	IF A. 162/50A OR A. 162/50B OR A. 162/50C OR A. 162/50D OR A. 162/50E OR
	A.162/50F THEN m ELSE n/a support of any directives within caller preferences for
	the session initiation protocol.
0.1:	It is mandatory to support at least one of these items.
0.2	It is mandatory to support at least one of these items
0.2.	It is mandatory to support at loast one of these items.
0.5.	n is manuatory to support at least one of these items.
0.4	At least one of these capabilities is supported.
NOTE:	An AS acting as a proxy may be outside the trust domain, and therefore not able to
	support the capability for that reason; in this case it is perfectly reasonable for the
	header to be passed on transparently, as specified in the PDU parts of the profile.

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# PROPOSED CHANGE

## A.2.2.3 PDUs

Item	PDU		Sending			Receiving	
		Ref.	RFC	Profile	Ref.	RFC	Profile
			status	status		status	status
1	ACK request	[26] 13	m	m	[26] 13	m	m
2	BYE request	[26] 16	m	m	[26] 16	m	m
3	BYE response	[26] 16	m	m	[26] 16	m	m
4	CANCEL request	[26] 16.10	m	m	[26] 16.10	m	m
5	CANCEL response	[26] 16.10	m	m	[26] 16.10	m	m
8	INVITE request	[26] 16	m	m	[26] 16	m	m
9	INVITE response	[26] 16	m	m	[26] 16	m	m
9A	MESSAGE request	[50] 4	c5	c5	[50] 7	c5	c5
9B	MESSAGE response	[50] 4	c5	c5	[50] 7	c5	c5
10	NOTIFY request	[28] 8.1.2	c3	c3	[28] 8.1.2	c3	c3
11	NOTIFY response	[28] 8.1.2	c3	c3	[28] 8.1.2	c3	c3
12	OPTIONS request	[26] 16	m	m	[26] 16	m	m
13	OPTIONS response	[26] 16	m	m	[26] 16	m	m
14	PRACK request	[27] 6	c6	c6	[27] 6	c6	c6
15	PRACK response	[27] 6	c6	c6	[27] 6	c6	c6
15A	PUBLISH request	[70] 3	<u>c20</u>	<u>c20</u>	[70] 3	<u>c20</u>	<u>c20</u>
<u>15B</u>	PUBLISH response	[70] 3	<u>c20</u>	<u>c20</u>	[70] <u>3</u>	<u>c20</u>	<u>c20</u>
16	REFER request	[36] 3	c1	c1	[36] 3	c1	c1
17	REFER response	[36] 3	c1	c1	[36] 3	c1	c1
18	REGISTER request	[26] 16	m	m	[26] 16	m	m
19	REGISTER response	[26] 16	m	m	[26] 16	m	m
20	SUBSCRIBE request	[28] 8.1.1	c3	c3	[28] 8.1.1	c3	c3
21	SUBSCRIBE response	[28] 8.1.1	c3	c3	[28] 8.1.1	c3	c3
22	UPDATE request	[30] 7	c4	c4	[30] 7	c4	c4
23	UPDATE response	[30] 7	c4	c4	[30] 7	c4	c4
c1:	IF A.162/22 THEN m ELSE n/a	the REFEI	R method.	•		•	•
c3	IF A.162/27 THEN m ELSE n/a	SIP specif	ic event notif	ication.			
c4	IF A.162/24 THEN m ELSE n/a	the SIP UI	PDATE meth	od.			
c5:	IF A.162/33 THEN m ELSE n/a	the SIP M	ESSAGE me	thod.			
c6:	ÌF A.162/21 THEN m ELSE n/a	reliability o	of provisional	responses.			
c20:	IF A.4/xx THEN m ELSE n/a	-					

#### Table A.163: Supported methods

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# PROPOSED CHANGE

### A.2.2.4.1 Status-codes

#### Table A.164: Supported-status codes

Item	Header	Sending			Receiving			
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status	
1	100 (Trying)	[26] 21.1.1	c1	c1	[26] 21.1.1	c2	c2	
2	180 (Ringing)	[26] 21.1.2	c3	сЗ	[26] 21.1.2	c3	c3	
3	181 (Call Is Being Forwarded)	[26]	c3	c3	[26]	c3	c3	
4	182 (Queued)	[26]	c3	c3	[26]	c3	c3	
5	183 (Session Progress)	[26]	c3	c3	[26]	c3	c3	
6	200 (OK)	[26]			[26]			
7	202 (Accepted)	[28] 8.3.1	c4	c4	[28] 8.3.1	c4	c4	
8	300 (Multiple Choices)	[26]			[26]			
9	301 (Moved Permanently)	[26] 21.3.2			[26] 21.3.2			
10	302 (Moved Temporarily)	[26] 21.3.3			[26] 21.3.3			
11	305 (Use Proxy)	[26] 21.3.4			[26] 21.3.4			
12	380 (Alternative Service)	[26] 21.3.5			[26] 21.3.5			
13	400 (Bad Request)	[26] 21.4.1			[26] 21.4.1			
14	401 (Unauthorized)	[26] 21.4.2			[26] 21.4.2			
15	402 (Payment Required)	[26] 21.4.3			[26] 21.4.3			
16	403 (Forbidden)	[26] 21.4.4			[26] 21.4.4			
17	404 (Not Found)	[26] 21.4.5			[26] 21.4.5			
18	405 (Method Not Allowed)	[26] 21.4.6			[26] 21.4.6			
19	406 (Not Acceptable)	[26] 21.4.7			[26] 21.4.7			
20	407 (Proxy Authentication Required)	[26] 21.4.8			[26] 21.4.8			
21	408 (Request Timeout)	[26] 21.4.9			[26] 21.4.9			
22	410 (Gone)	[26] 21.4.10			[26] 21.4.10			
<u>22A</u>	412 (Precondition Failed)	[70] 7.2.1	<u>c20</u>	<u>c20</u>	[70] 7.2.1	<u>c20</u>	<u>c20</u>	
23	413 (Request Entity Too Large)	[26] 21.4.11			[26] 21.4.11			
24	414 (Request-URI Too Large)	[26] 21.4.12			[26] 21.4.12			
25	415 (Unsupported Media Type)	[26] 21.4.13			[26] 21.4.13			
26	416 (Unsupported URI Scheme)	[26] 21.4.14			[26] 21.4.14			
27	420 (Bad Extension)	[26] 21.4.15			[26] 21.4.15			
28	421 (Extension Required)	[26]			[26]			

Item	Header	Sending			Receiving			
		Ref.	RFC	Profile	Ref.	RFC	Profile	
			status	status		status	status	
		21.4.16	_		21.4.16	-		
29	423 (Interval Too Brief)	[26]	c5	c5	[26]	c6	c6	
20	400 (Terraneverily rest	21.4.17			21.4.17			
30	480 (Temporarily not	21 / 18			[20]			
31	481 (Call /Transaction Does	[26]			[26]			
01	Not Exist)	21.4.19			21.4.19			
32	482 (Loop Detected)	[26]			[26]			
-	- ( )	21.4.20			21.4.20			
33	483 (Too Many Hops)	[26]			[26]			
		21.4.21			21.4.21			
34	484 (Address Incomplete)	[26]			[26]			
0.5		21.4.22			21.4.22			
35	485 (Ambiguous)	[26]			[26]			
26	486 (Buey Hore)	21.4.23			21.4.23			
30	400 (Busy Here)	21 4 24			[20] 21 4 24			
37	487 (Request Terminated)	[26]			[26]			
07		21.4.25			21.4.25			
38	488 (Not Acceptable Here)	[26]			[26]			
		21.4.26			21.4.26			
39	489 (Bad Event)	[28] 7.3.2	c4	c4	[28] 7.3.2	c4	c4	
40	491 (Request Pending)	[26]			[26]			
		21.4.27			21.4.27			
41	493 (Undecipherable)	[26]			[26]			
		21.4.28			21.4.28			
41A	494 (Security Agreement	[48] 2	c7	c7	[48] 2	n/a	n/a	
10	Required)	[26]			[26]	1		
42	500 (Internal Server Enol)	21 5 1			[20] 21.5.1			
43	501 (Not Implemented)	[26]			[26]			
10		21.5.2			21.5.2			
44	502 (Bad Gateway)	[26]			[26]			
		21.5.3			21.5.3			
45	503 (Service Unavailable)	[26]			[26]			
		21.5.4			21.5.4			
46	504 (Server Time-out)	[26]			[26]			
47		21.5.5			21.5.5			
47	505 (Version not supported)	[20]			[20]			
48	513 (Message Too Large)	[26]			[26]			
-0	o to (message too Earge)	21.5.7			21.5.7			
49	580 (Precondition Failure)	[30] 8			[30] 8			
50	600 (Busy Everywhere)	[26]			[26]			
		21.6.1			21.6.1			
51	603 (Decline)	[26]			[26]			
		21.6.2			21.6.2			
52	604 (Does Not Exist	[26]			[26]			
50	Anywhere)	21.6.3		+	21.6.3			
53	606 (Not Acceptable)	[26]			[26]			
<u></u>		∠1.0.4			21.0.4	1	I	
c2.	IF A. 102/13 THEN III ELSE Π/8	the requirem	oxy.	le to use serv	arate I IRIe in	the unstream	direction	
0 <u>2</u> .	and downstream direction when	n record route	eina.	10 10 036 36p		and upsuicall		
c3:	IF A.163/9 THEN m ELSE n/a	- INVITE res	ponse.					
c4:	IF A.162/27 THEN m ELSE n/a	SIP speci	fic event noti	fication.				

IF A.163/19 OR A.163/21 THEN m ELSE n/a - - REGISTER response or SUBSCRIBE response. IF A.163/19 OR A.163/21 THEN i ELSE n/a - - REGISTER response or SUBSCRIBE response. IF A.162/47 THEN m ELSE n/a - - security mechanism agreement for the session initiation protocol. c5:

c6:

c7:

IF A.4/xx THEN m ELSE n/a c20

# PROPOSED CHANGE – new subclause

### A.2.2.4.10A PUBLISH method

Editor's note: The base draft does not yet contain an analysis of header usage within this method, and therefore this clause will have to be reviewed and completed when such an analysis is available.

Prerequisite A.163/15A - - PUBLISH request

#### Table A.260A: Supported headers within the PUBLISH request

Item	Header		<u>Sending</u>		Receiving			
		Ref.	<u>RFC</u>	<b>Profile</b>	Ref.	<u>RFC</u>	Profile	
			<u>status</u>	<u>status</u>		<u>status</u>	<u>status</u>	
<u>1</u>	Accept-Contact	[56B] 9.2	<u>c28</u>	<u>c28</u>	[56B] 9.2	<u>c28</u>	<u>c29</u>	
<u>2</u>	Allow	[ <u>26] 20.5</u>	<u>m</u>	<u>m</u>	[26] 20.5	i	<u>i</u>	
<u>3</u>	Allow-Events	[ <u>28] 7.2.2</u>	<u>m</u>	<u>m</u>	[28] 7.2.2	<u>c29</u>	<u>c29</u>	
<u>4</u>	Authorization	[ <u>26] 20.7</u>	<u>m</u>	<u>m</u>	[26] 20.7	i	<u>i</u>	
<u>5</u>	Call-ID	[26] 20.8	<u>m</u>	<u>m</u>	[26] 20.8	<u>m</u>	<u>m</u>	
<u>6</u>	Call-Info	[26] 24.9	<u>m</u>	<u>m</u>	[26] 24.9	<u>c4</u>	<u>c4</u>	
<u>7</u>	Content-Disposition	[26] 20.11	<u>m</u>	<u>m</u>	[26] 20.11	i	<u>i</u>	
<u>8</u>	Content-Encoding	[26] 20.12	<u>m</u>	<u>m</u>	[26] 20.12	i	<u>i</u>	
9	Content-Language	[26] 20.13	<u>m</u>	<u>m</u>	[26] 20.13	i	i	
<u>10</u>	Content-Length	[26] 20.14	<u>m</u>	<u>m</u>	[26] 20.14	<u>m</u>	<u>m</u>	
<u>11</u>	Content-Type	[26] 20.15	<u>m</u>	<u>m</u>	[26] 20.15	į	<u>i</u>	
<u>12</u>	Cseq	[26] 20.16	<u>m</u>	<u>m</u>	[26] 20.16	<u>m</u>	<u>m</u>	
<u>13</u>	Date	[26] 20.17	<u>m</u>	<u>m</u>	[26] 20.17	<u>c2</u>	<u>c2</u>	
<u>14</u>	Event	[70] 3.6	<u>m</u>	<u>m</u>	[70] 3.6	<u>m</u>	<u>m</u>	
<u>15</u>	Expires	[26]	<u>m</u>	<u>m</u>	[26]	i	<u>i</u>	
		<u>20.19,</u>			<u>20.19,</u>			
		[70] 7.1.1			<u>[70] 7.1.1</u>			
<u>16</u>	From	[26] 20.20	<u>m</u>	<u>m</u>	[26] 20.20	<u>m</u>	<u>m</u>	
<u>17</u>	In-Reply-To	[26] 20.21	<u>m</u>	<u>m</u>	[26] 20.21	i	i	
<u>18</u>	Max-Forwards	[26] 20.22	<u>m</u>	<u>m</u>	[26] 20.22	<u>m</u>	<u>m</u>	
<u>19</u>	MIME-Version	[26] 20.24	<u>m</u>	<u>m</u>	[26] 20.24	i	i	
<u>20</u>	Organization	[26] 20.25	<u>m</u>	<u>m</u>	[26] 20.25	<u>c3</u>	<u>c3</u>	
<u>21</u>	P-Access-Network-Info	[ <u>52] 4.4</u>	<u>c23</u>	<u>c23</u>	[52] 4.4	<u>c24</u>	<u>c24</u>	
<u>22</u>	P-Asserted-Identity	[ <u>34] 9.1</u>	<u>c10</u>	<u>c10</u>	[ <u>34] 9.1</u>	<u>c11</u>	<u>c11</u>	
23	P-Called-Party-ID	[52] 4.2	<u>c14</u>	<u>c14</u>	[ <u>52] 4.2</u>	<u>c15</u>	<u>c16</u>	
<u>24</u>	P-Charging-Function-	[52] 4.5	<u>c21</u>	<u>c21</u>	[ <u>52] 4.5</u>	<u>c22</u>	<u>c22</u>	
	Addresses							
<u>25</u>	P-Charging-Vector	[ <u>52] 4.6</u>	<u>c19</u>	<u>c19</u>	[ <u>52] 4.6</u>	<u>c20</u>	<u>c20</u>	
<u>26</u>	P-Preferred-Identity	[34] 9.2	X	x	[34] 9.2	<u>c9</u>	<u>c9</u>	

27	P-Visited-Network-ID	[52] 4.3	c17	n/a	[52] 4.3	c18	n/a					
28	Priorità	[26] 20 26	m	m	[26] 20 26	i	i					
20	Privacy	[33] 4 2	<u></u> 	<u></u>	[33] 4 2	<u>-</u> c13	<u>-</u> c13					
20	Drovu Authorization	[36] 20 29	<u>012</u>	<u>012</u>	[26] 20 29	07	07					
21	Provid Deguire	[20] 20.20	<u> </u>	<u></u>	[20] 20.20	<u>07</u>	<u>07</u>					
<u>31</u>	Proxy-Require	20 20.29	<u>m</u>	<u>III</u>	20 20.29	<u>m</u>	<u>m</u>					
32	Reason	[34A] 2	<u>C8</u>	<u>C8</u>	[34A] 2	<u>C1</u>	<u>C1</u>					
33	Reply-10	26 20.31	<u>m</u>	<u>m</u>	26 20.31	1	1					
<u>34</u>	Reject-Contact	<u>[56B] 9.2</u>	<u>c27</u>	<u>c27</u>	<u> 56B  9.2</u>	<u>c27</u>	<u>c28</u>					
<u>35</u>	Request-Disposition	[ <u>56B] 9.1</u>	<u>c27</u>	<u>c27</u>	[ <u>56B] 9.1</u>	<u>c27</u>	<u>c27</u>					
<u>36</u>	Require	[26] 20.32	<u>m</u>	<u>m</u>	[26] 20.32	<u>c5</u>	<u>c5</u>					
<u>37</u>	Route	[ <u>26] 20.34</u>	<u>m</u>	<u>m</u>	[ <u>26] 20.34</u>	<u>m</u>	<u>m</u>					
<u>38</u>	Security-Client	[48] 2.3.1	x	<u>×</u>	[48] 2.3.1	<u>c25</u>	<u>c25</u>					
<u>39</u>	Security-Verify	[48] 2.3.1	X	X	[48] 2.3.1	<u>c26</u>	<u>c26</u>					
40	SIP-If-Match	[70] 7.3.2	m	m	[70] 7.3.2	i	i					
41	Subject	[26] 20.36	m	m	[26] 20.36	i	i					
42	Supported	[26] 20.37	m	m	[26] 20.37	c6	<u>c6</u>					
43	Timestamp	[26] 20.38	m	m	[26] 20.38		i					
44	Το	[26] 20.39	m	m	[26] 20.39	m	m					
45	User-Agent	[26] 20 41	m	m	[26] 20 41	i	i					
46	Via	[26] 20 42	m	<u>m</u>	[26] 20 42	m	m					
<u>-10</u>	<u>  Via</u>   <u> 20  20.42   M</u>   <u>126  20.42   M</u> <u>M</u>											
<u>c2</u> :	IF A 162/9 THEN m ELSE i ir	sertion of da	te in request	s and respon	soc	1010001.						
02.	IF A 162/10A OR A 162/10B TH	EN m ELSE	i reading	adding or cor	<u>ses.</u> Nationating t	ho Organizat	ion hoodor					
<u>c</u> 4:	IF A 162/19C OR A 162/19D TH	EN m ELSE	i reading,	adding or col	ncatenating t	he Call-Info k	lon neader					
<u>0</u> <del>.</del>	IF A 162/11 OP A 162/13 THEN	m ELSE i	reading the	contents of th	Poquire b	ander before	provving					
<u></u>	the request or response or addir	a or modifyi	ng the conter	of the Rec	uire beader	before proxvi	ng the					
	request or response for methods	other than	REGISTER				<u>ing the</u>					
c6·	request or response for methods other than REGISTER.											
<u></u>	IF A. 102/10 THEM IN ELSE I reading the contents of the Supported header before proxying the response											
c7 <sup>.</sup>	IF A 162/8A THEN m FLSE i	authenticatio	n between U	A and proxy								
<u>c8</u> :	IF A 162/48 THEN m ELSE n/a	- the Reaso	n header fiel	d for the sess	ion initiation	protocol						
<u>c9</u> :	IF A 162/30A THEN m ELSE n/2	- - act as fir	st entity withi	n the trust do	main for ass	erted identity						
c10:	IF A 162/30 THEN m FLSE n/a	- extensions	s to the Sess	ion Initiation	Protocol (SIP	) for asserted	<u>.</u> 1 identity					
<u>010.</u>	within trusted networks											
c11 <sup>.</sup>	IF A 162/30A or A 162/30B THEN m ELSE i extensions to the Session Initiation Protocol (SIP) for											
<u>.</u>	asserted identity within trusted n	etworks or s	ubsequent er	ntity within tru	ist network th	at can route	outside the					
	trust network.											
c12:	IF A.162/31 THEN m ELSE n/a	a privacy i	mechanism fo	or the Sessio	n Initiation Pr	rotocol (SIP).						
c13:	IF A.162/31D OR A.162/31G TH	EN m ELSE	IF A.162/310	C THEN I ELS	SE n/a app	olication of th	e privacy					
	option "header" or application of	the privacy of	option "id" or	passing on o	f the Privacy	header trans	parently.					
c14:	IF A.162/37 THEN m ELSE n/a	- the P-Call	ed-Party-ID h	eader extens	sion.		<u> </u>					
c15:	IF A.162/37 THEN i ELSE n/a -	the P-Calle	d-Party-ID he	ader extension	on.							
c16:	IF A.162/37 AND A.3/2 THEN m	ELSE IF A. <sup>2</sup>	162/37 AND	A.3/3 THEN i		the P-Callec	I-Partv-ID					
	header extension and P-CSCF of	or I-CSCF.										
c17:	IF A.162/38 THEN m ELSE n/a	- the P-Visit	ed-Network-	ID header ext	ension.							
c18:	IF A.162/39 THEN m ELSE i	reading, or d	eleting the P	Visited-Netw	ork-ID heade	er before prop	wing the					
	request or response.											
<u>c19:</u>	IF A.162/45 THEN m ELSE n/a	<u>- the P</u> -Cha	rging-Vector	header exter	<u>ision.</u>							
c20:	IF A.162/46 THEN m ELSE IF A	.162/45 THE	N i ELSE n/a	ı adding, d	eleting, readi	ing or modify	ing the P-					
	Charging-Vector header before	oroxying the	request or re	sponse or the	e P-Charging	-Vector head	<u>ler</u>					
	extension.	-										
<u>c21:</u>	IF A.162/44 THEN m ELSE n/a	<ul> <li>- the P-Cha</li> </ul>	rging-Functio	on-Addresses	header exte	<u>nsion.</u>						
<u>c22:</u>	IF A.162/44A THEN m ELSE IF	<u>A.162/44 TH</u>	IEN i ELSE n	<u>/a adding,</u>	deleting or r	eading the P	-Charging-					
	Function-Addresses header before	ore proxying	the request c	or response, c	or the P-Char	ging-Functio	<u>n-</u>					
	Addresses header extension.											
<u>c23:</u>	IF A.162/43 THEN x ELSE IF A.	<u>162/41 THEI</u>	<u>N m ELSE n/</u>	<u>a act as su</u>	ibsequent en	tity within tru	st network					
	for access network information t	hat can route	e outside the	trust network	, the P-Acces	ss-Network-Ir	nfo header					
	extension.											
<u>c24:</u>	IF A.162/43 THEN m ELSE IF A	<u>.162/41 THE</u>	N i ELSE n/a	<u>i act as su</u>	bsequent ent	ity within true	st network					
	for access network information t	hat can route	e outside the	trust network	, the P-Acces	<u>ss-Network-Ir</u>	nfo header					
	extension.											
<u>c25:</u>	IF A.162/47 THEN o ELSE n/a -	- security me	echanism agi	reement for th	<u>ne session in</u>	Itiation protoc	<u>col (note 1).</u>					
<u>c26:</u>	IF A.162/47 THEN m ELSE n/a	security m	echanism ag	reement for t	<u>ne session ir</u>	nitiation proto	<u>col.</u>					
<u>c27:</u>	IF A.162/50 THEN m ELSE n/a	- caller pref	erences for t	ne session ini	itiation protoc	<u>col.</u>						
<u>c28:</u>	IF A.162/50 AND A.4/3 THEN m	ELSE IF A.	162/50 AND	NOT A.4/3 TH	<u>HEN i ELSE r</u>	n/a caller p	oreterences					
e20:	Tor the session initiation protoco	, and S-CSC	<u>/ .</u>	n outerration (	noto O							
<u>c29:</u>	<u>IF A.4/20 THEN M ELSET SII</u>	<ul> <li>specific even</li> </ul>	ent notificatio	n extension (	<u>note 2).</u>							

NOTE 1:	Support of this header in this method is dependent on the security mechanism and the security architecture
	which is implemented.
<b>NOTE 2</b> :	c29 refers to the UA role major capability as this is the case of a proxy that also acts as a UA specifically for
	SUBSCRIBE and NOTIFY.

Prerequisite A.163/15A - - PUBLISH request

#### Table A.260B: Supported message bodies within the PUBLISH request

Item	Header	Sending			Receiving		
		<u>Ref.</u>	<u>RFC</u> status	<u>Profile</u> status	<u>Ref.</u>	<u>RFC</u> status	<u>Profile</u> status
<u>1</u>							

#### Prerequisite A.163/15B - - PUBLISH response

#### Table A.260C: Supported headers within the PUBLISH response - all remaining status-codes

Item	Header	Sending			Receiving						
		Ref.	RFC	Profile	Ref.	RFC	Profile				
			status	status		status	status				
1	Call-ID	[26] 20.8	m	m	[26] 20.8	m	m				
2	Call-Info	[26] 24.9	<u>m</u>	<u>m</u>	[26] 24.9	<u>c3</u>	<u>c3</u>				
3	Content-Disposition	[26] 20.11	<u>m</u>	<u>m</u>	[26] 20.11	i	i				
4	Content-Encoding	[26] 20.12	<u>m</u>	<u>m</u>	[26] 20.12	į	i				
<u>5</u>	Content-Language	[26] 20.13	<u>m</u>	<u>m</u>	[26] 20.13	<u>i</u>	<u>i</u>				
<u>6</u>	Content-Length	[26] 20.14	<u>m</u>	<u>m</u>	[26] 20.14	<u>m</u>	<u>m</u>				
<u>7</u>	Content-Type	[26] 20.15	<u>m</u>	<u>m</u>	[26] 20.15	<u>i</u>	<u>i</u>				
<u>8</u>	Cseq	[26] 20.16	<u>m</u>	<u>m</u>	[26] 20.16	<u>m</u>	<u>m</u>				
<u>9</u>	Date	[26] 20.17	<u>m</u>	<u>m</u>	[26] 20.17	<u>c1</u>	<u>c1</u>				
<u>10</u>	<u>From</u>	[ <u>26] 20.20</u>	<u>m</u>	<u>m</u>	[ <u>26] 20.20</u>	<u>m</u>	<u>m</u>				
<u>11</u>	MIME-Version	[26] 20.24	<u>m</u>	<u>m</u>	[26] 20.24	i	i				
<u>12</u>	Organization	[26] 20.25	<u>m</u>	<u>m</u>	[26] 20.25	<u>c2</u>	<u>c2</u>				
<u>13</u>	P-Access-Network-Info	[ <u>52] 4.4</u>	<u>c13</u>	<u>c13</u>	[ <u>52] 4.4</u>	<u>c14</u>	<u>c14</u>				
<u>14</u>	P-Asserted-Identity	[ <u>34] 9.1</u>	<u>c5</u>	<u>c5</u>	[ <u>34] 9.1</u>	<u>c6</u>	<u>c6</u>				
<u>15</u>	P-Charging-Function- Addresses	[ <u>52] 4.5</u>	<u>c11</u>	<u>c11</u>	<u>[52] 4.5</u>	<u>c12</u>	<u>c12</u>				
<u>16</u>	P-Charging-Vector	[52] 4.6	<u>c9</u>	<u>n/a</u>	<u>[52] 4.6</u>	<u>c10</u>	<u>n/a</u>				
<u>17</u>	P-Preferred-Identity	[34] 9.2	X	x	[34] 9.2	<u>c4</u>	<u>n/a</u>				
<u>18</u>	<u>Privacy</u>	[ <u>33] 4.2</u>	<u>c7</u>	<u>c7</u>	[ <u>33] 4.2</u>	<u>c8</u>	<u>c8</u>				
<u>19</u>	<u>Require</u>	[26] 20.32	<u>m</u>	<u>m</u>	[26] 20.32	<u>c15</u>	<u>c15</u>				
<u>20</u>	<u>Server</u>	[26] 20.35	<u>m</u>	<u>m</u>	[26] 20.35	i	<u>i</u>				
<u>21</u>	<u>Timestamp</u>	[26] 20.38	<u>m</u>	<u>m</u>	[26] 20.38	<u>i</u>	<u>i</u>				
<u>22</u>	<u>To</u>	[26] 20.39	<u>m</u>	<u>m</u>	[ <u>26] 20.39</u>	<u>m</u>	<u>m</u>				
<u>23</u>	<u>User-Agent</u>	[26] 20.41	<u>m</u>	<u>m</u>	[ <u>26] 20.41</u>	i	<u>i</u>				
<u>24</u>	Via	[26] 20.42	<u>m</u>	<u>m</u>	[26] 20.42	<u>m</u>	<u>m</u>				
<u>25</u>	Warning         [26] 20.43         m         m         [26] 20.43         i         i										
<u>c1:</u>	IF A.162/9 THEN m ELSE i insertion of date in requests and responses.										
<u>C2:</u>	IF A.162/19A OR A.162/19B TH	EN MELSE	<u>i reading,</u>	adding or col	ncatenating t	he Organizat	ion header.				
<u>C3:</u>	IF A.162/19C OR A.162/19D TH	<u>IEN MELSE</u>	<u>1 reading,</u>	adding or co	ncatenating t	ne Call-Info r	ieader.				
<u>04.</u> c5:	IF A 162/30 THEN m ELSE n/a	$\frac{1}{2} - \frac{1}{2} $	sto the Sees	ion Initiation	Protocol (SIP	tor assorted	<u>.</u> Lidontity				
<u></u>	within trusted networks		5 10 1116 0655	ION INITIATION							
c6 <sup>.</sup>	IF A 162/30A or A 162/30B THE	N m ELSE i -	extension	s to the Sessi	on Initiation I	Protocol (SIP	) for				
<u></u>	asserted identity within trusted n	etworks or s	ubsequent er	ntity within tru	ist network th	at can route	outside the				
	trust network.										
<u>c7:</u>	IF A.162/31 THEN m ELSE n/a	a privacy r	nechanism f	or the Sessio	n Initiation P	rotocol (SIP).					
c8:	IF A.162/31D OR A.162/31G TH	IEN m ELSE	IF A.162/310	C THEN I ELS	SE n/a app	lication of th	e privacy				
	option "header" or application of	the privacy of	option "id" or	passing on o	f the Privacy	header trans	parently.				
<u>c9:</u>	IF A.162/45 THEN m ELSE n/a	<u> the P-Cha</u>	rging-Vector	header exter	<u>nsion.</u>						
<u>c10:</u>	IF A.162/46 THEN m ELSE IF A	. <u>162/45 THE</u>	<u>N i ELSE n/a</u>	a adding, d	eleting, read	ing or modify	ing the P-				
	Charging-Vector header before	proxying the	request or re	sponse or the	e P-Charging	-Vector head	er				
	extension.										
<u>c11:</u>	IF A.162/44 THEN m ELSE n/a	the P-Cha	rging-Functio	on-Addresses	header exte	<u>nsion.</u>					
<u>c12:</u>	IF A.162/44A THEN M ELSE IF	<u>A.162/44 TH</u>	<u>ENTELSE n</u>	<u>/a adding,</u>	deleting or r	eading the P	-Charging-				
	Addresses header extension	bre proxying	the request of	<u>or response, c</u>	or the P-Char	ging-Functio	<u>n-</u>				
012:					ubcoquent en	tity within tru	st potwork				
<u>013.</u>	for access network information t	hat can route	<u>NIII ELSE II/</u>	<u>a aci as si</u> trust notwork	the P-Acces	<u>ally within tru</u>	ofo beader				
	extension			trust network		55-INCLIVOIR-II	no neader				
c14 <sup>.</sup>	IF A 162/43 THEN m ELSE IF A	162/41 THE	N i ELSE n/a	a act as su	hsequent ent	ity within true	at network				
<u>014</u> .	for access network information t	hat can route	outside the	trust network	the P-Acces	ss-Network-li	ofo header				
	extension.				,		<u>no noudor</u>				
c15:	IF A.162/11 OR A.162/13 THEN	m ELSE i	reading the	contents of t	ne Require h	eader before	proxving				
<u></u>	the request or response or addir	ng or modifvir	ng the conter	nts of the Red	uire header	before proxvi	ng the				
	request or response for methods	s other than F	REGISTER.				<u> </u>				

Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/7 - - 200 (OK)

<u>Item</u>	Header	<u>Sending</u>			Receiving						
		Ref.	<u>RFC</u>	Profile	<u>Ref.</u>	<u>RFC</u>	Profile				
			<u>status</u>	<u>status</u>		<u>status</u>	<u>status</u>				
<u>1</u>	Allow	[26] 20.5	<u>m</u>	<u>m</u>	[26] 20.5	i	i				
<u>2</u>	Authentication-Info	[26] 20.6	<u>m</u>	<u>m</u>	[26] 20.6	i	i				
<u>3</u>	<u>Expires</u>	[26]	<u>m</u>	<u>m</u>	[26]	i	<u>i</u>				
		<u>20.19,</u>			<u>20.19,</u>						
		[70] 7.1.1			[70] 7.1.1						
<u>4</u>	<u>SIP-Etag</u>	[70] 7.3.1	<u>m</u>	<u>m</u>	[70] 7.3.1	i	i				
<u>5</u>	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	i	i				

#### Table A.260D: Supported headers within the PUBLISH response

Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/8 OR A.164/9 OR A.164/10 OR A.164/11 OR A.164/12 OR A.164/35 - - 3xx or 485 (Ambiguous)

#### Table A.260E: Supported headers within the PUBLISH response

<u>ltem</u>	Header	Sending			Receiving				
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status		
1	Allow	[26] 20 5	m	m	[26] 20 5	i	i		
2	Contact	[26] 20.10	m	m	[26] 20.10	<u>.</u> c1	 c1		
3	Error-Info	[26] 20.18	m	m	[26] 20.18		i		
4	Supported	[26] 20.37	m	m	[26] 20.37	i	i		
c1:	IF A 162/19F THEN m FLSE i deleting Contact headers.								

Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/8 OR A.164/9 OR A.164/10 OR A.164/11 OR A.164/12 - 401 (Unauthorized)

#### Table A.260F: Supported headers within the PUBLISH response

<u>ltem</u>	Header	Sending			Receiving			
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
1	Allow	[26] 20.5	m	m	[26] 20.5	i	i	
2	Error-Info	[26] 20.18	m	m	[26] 20.18	i	i	
<u>3</u>	Proxy-Authenticate	[26] 20.27	<u>m</u>	m	[26] 20.27	<u>m</u>	m	
4	Supported	[26] 20.37	<u>m</u>	m	[26] 20.37	i	i	
<u>5</u>	WWW-Authenticate	[26] 20.44	m	m	[26] 20.44	i	i	

Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/17 OR A.164/23 OR A.164/30 OR A.164/36 OR A.164/42 OR A.164/45 OR A.164/50 OR A.164/51 - - 404, 413, 480, 486, 500, 503, 600, 603

#### Table A.260G: Supported headers within the PUBLISH response

Item	Header	Sending			Receiving			
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
1	Allow	[26] 20.5	<u>m</u>	<u>m</u>	[26] 20.5	i	i	
2	Error-Info	[26] 20.18	<u>m</u>	<u>m</u>	[26] 20.18	i	i	
3	Retry-After	[26] 20.33	<u>m</u>	<u>m</u>	[26] 20.33	i	i	
<u>4</u>	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	i	i	

#### Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/18 -- 405 (Method Not Allowed)

#### Table A.260H: Supported headers within the PUBLISH response

<u>ltem</u>	<u>Header</u>	Sending			Receiving		
		Ref.	<u>RFC</u>	Profile	<u>Ref.</u>	<u>RFC</u>	Profile
			<u>status</u>	<u>status</u>		<u>status</u>	<u>status</u>
1	Allow	[26] 20.5	m	m	[26] 20.5		<u>.</u>
<u>2</u>	Error-Info	[26] 20.18	<u>m</u>	<u>m</u>	[ <u>26] 20.18</u>		i
3	Supported	[26] 20.37	m	m	[26] 20.37	-	i

Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/20 - - 407 (Proxy Authentication Required)

#### Table A.260I: Supported headers within the PUBLISH response

<u>ltem</u>	Header	Sending			Receiving			
		<u>Ref.</u>	RFC status	Profile status	<u>Ref.</u>	RFC status	Profile status	
<u>1</u>	Allow	[26] 20.5	m	<u>m</u>	[26] 20.5	i	i	
2	Error-Info	[26] 20.18	<u>m</u>	<u>m</u>	[26] 20.18	i	i	
<u>3</u>	Proxy-Authenticate	[26] 20.27	<u>m</u>	<u>m</u>	[26] 20.27	<u>m</u>	m	
4	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	i	i	
5	WWW-Authenticate	[26] 20.44	m	m	[26] 20.44	i	i	

Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/25 -- 415 (Unsupported Media Type)

#### Table A.260J: Supported headers within the PUBLISH response

<u>ltem</u>	Header	Sending			Receiving			
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
<u>1</u>	Accept	[26] 20.1	<u>m</u>	<u>m</u>	[26] 20.1	i	i	
2	Accept-Encoding	[26] 20.2	<u>m</u>	<u>m</u>	[26] 20.2	i	i	
<u>3</u>	Accept-Language	[26] 20.3	<u>m</u>	<u>m</u>	[26] 20.3	i	i	
<u>4</u>	Allow	[26] 20.5	<u>m</u>	<u>m</u>	[26] 20.5	i	i	
<u>5</u>	Error-Info	[26] 20.18	<u>m</u>	<u>m</u>	[26] 20.18	i	i	
<u>6</u>	Supported	[26] 20.37	m	m	[26] 20.37	i	i	

#### Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/27 - - 420 (Bad Extension)

#### Table A.260K: Supported headers within the PUBLISH response

<u>Item</u>	Header	Sending			Receiving			
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
<u>1</u>	Allow	[26] 20.5	<u>m</u>	<u>m</u>	[26] 20.5	i	i	
<u>2</u>	Error-Info	[26] 20.18	<u>m</u>	<u>m</u>	[26] 20.18	i	i	
<u>3</u>	<u>Supported</u>	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	i	i	
<u>4</u>	Unsupported	[26] 20.40	<u>m</u>	<u>m</u>	[26] 20.40	<u>c3</u>	<u>c3</u>	
<u>c3:</u>	IF A.162/18 THEN m ELSE i reading the contents of the Unsupported header before proxying the 420							
	response to a method other than	n REGISTER						

#### Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/28 OR A.164/41A - - 421 (Extension Required), 494 (Security Agreement Required)

#### Table A.260L: Supported headers within the PUBLISH response

<u>ltem</u>	Header	<u>Sending</u>			Receiving					
		Ref. <u>RFC</u> <u>Profile</u>		<u>Ref.</u>	RFC	Profile				
			<u>status</u>	<u>status</u>		<u>status</u>	<u>status</u>			
<u>1</u>	Allow	[26] 20.5	<u>0</u>	<u>o</u>	[26] 20.5	<u>m</u>	m			
<u>2</u>	Error-Info	[26] 20.18	<u>0</u>	<u>0</u>	[26] 20.18	0	<u>0</u>			
<u>3</u>	Security-Server	[ <u>48] 2</u>	<u>c1</u>	<u>c1</u>	[ <u>48] 2</u>	<u>n/a</u>	<u>n/a</u>			
<u>4</u>	<u>Supported</u>	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	<u>m</u>	<u>m</u>			
c1:	IF A 162/47 THEN m ELSE n/a	IF A 162/47 THEN m ELSE n/a security mechanism agreement for the session initiation protocol								

Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/29 - - 423 (Interval Too Brief)

#### Table A.260M: Supported headers within the PUBLISH response

Item	Header	Sending			Receiving			
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
<u>1</u>	Allow	[26] 20.5	m	m	[26] 20.5	i	i	
2	Error-Info	[26] 20.18	<u>0</u>		[26] 20.18	<u>0</u>		
<u>3</u>	Min-Expires	[ <u>26]</u> 20.23, [70] 6	m	m	[ <u>26]</u> 20.23, [70] 6	<u>i</u>	į	
<u>4</u>	Supported	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	i	i	

#### Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/34 - - 484 (Address Incomplete)

#### Table A.260N: Supported headers within the PUBLISH response

<u>Item</u>	Header	Sending			Receiving		
		<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	<u>Profile</u> status
1	Allow	[26] 20.5	m	m	[26] 20.5	i	i
<u>2</u>	Error-Info	[26] 20.18	<u>m</u>	<u>m</u>	[26] 20.18	<u>i</u>	i
<u>3</u>	<u>Supported</u>	[26] 20.37	<u>m</u>	<u>m</u>	[26] 20.37	i	i

#### Prerequisite A.163/15B - - PUBLISH response

Prerequisite: A.164/39 - - 489

#### Table A.260O: Supported headers within the PUBLISH response

<u>ltem</u>	Header	<u>Sending</u>			<u>Receiving</u>		
		<u>Ref.</u>	RFC	Profile	<u>Ref.</u>	<u>RFC</u>	Profile
			status	status		status	status
1	Allow	[26] 20.5	<u>m</u>	<u>m</u>	[26] 20.5	<u>i</u>	<u>i</u>
2	Allow-Events	[28] 8.2.2	<u>m</u>	<u>m</u>	[28] 8.2.2	<u>i</u>	i
<u>3</u>	Error-Info	[26] 20.18	<u>m</u>	<u>m</u>	[ <u>26] 20.18</u>	<u>i</u>	<u>i</u>

#### Prerequisite A.163/17 - - PUBLISH response

#### Table A.260P: Supported message bodies within the PUBLISH response

Item	Header	<u>Sending</u>			Receiving			
		<u>Ref.</u>	<u>RFC</u> <u>status</u>	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status	
1								

# 3GPP TSG-CN1 Meeting #34 Zagreb, Croatia 10 – 14 May 2004

		CHANGE	REQ	UES	т			CR-Form-v7
<sup>ж</sup> 2	2 <mark>4.229</mark> CR	<mark>652</mark>	ж <b>rev</b>	<b>-</b> #	Current v	version:	6.2.0	ж
For <mark>HELP</mark> on usin	ng this form, se	e bottom of this	s page or	look at	the pop-up t	text over	the	nbols.
Proposed change aff	ects: UICC	apps#	ME X	Radio	Access Net	work	Core Ne	etwork X
Title: ೫ (	Creation of sep	parate event pa	<mark>ckage tab</mark>	le for U	A role			
Source: ೫ L	Lucent Techno	logies						
Work item code: ೫ <mark>।</mark>	MS2, PRESN	C			Date	: ೫ <mark>12/</mark>	05/2004	
Category: # U	C se <u>one</u> of the fo F (correction A (correspo B (addition of C (functional D (editorial etailed explanat e found in 3GPF	llowing categorie. nds to a correction of feature), I modification of the modification) ions of the above <u>TR 21.900</u> .	s: on in an ear feature) e categories	rlier relea s can	Release Use <u>one</u> 2 ase) R96 R97 R98 R99 Rel- Rel- Rel-	: X Re of the fo (GSM (Rele (Rele (Rele 4 (Rele 5 (Rele 6 (Rele	I-6 M Phase 2) Pase 1996) Pase 1997) Pase 1998) Pase 1999) Pase 4) Pase 5) Pase 6)	eases:
Reason for change:	# IETF is de requests of and notifie major cap The capal seen by th This table conference	efining a numbe called event pace abilities as the obilities need to be ne proxy role. is expected to ing and present	r of struct ckages. Th oport does support fo e defined be used s ce, but thi	ures for nese ard not col br both e for the l ubstant s usage	message b e defined fo nveniently fi ends is differ JA role only ially for furth is covered	odies us r use bet t into tab rent. rent. r, as the ner exter in other	ed in NOT tween sub le A.4 defi packages nsions for and future	TFY scriber ining are not e CRs.
Summary of change:	H A new tab may be us reg-event An error in the P-CS0 extension	le A.4A is adde sed by any UA i package. In table A.4 is als CF is added to t because the F	ed to the p role. This so correct he list of e P-CSCF m	rofile su table is ed relat entities ust sup	ummarizing used in this ed to the su which mand port reg eve	the even docume pport of latorily se	t package ent to desc RFC 3265 upport the	s that ribe the 5, where
Consequences if not approved:	発 <mark>Support o</mark>	f event package	es will not	be ade	quately doc	umented	l.	
Clauses affected:	೫ <mark>A.2.1.2</mark>							
Other specs affected:	Y         N           X         Oth           X         Tes           X         O&I	er core specifica t specifications A Specifications	ations	ж				

#### Other comments: ೫

#### 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.

# A.2.1.2 Major capabilities

Table A.4: Major capabilities

ltem	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
1	client behaviour for registration?	[26] subclause 10.2	0	c3
2	registrar?	[26] subclause 10.3	0	c4
2A	registration of multiple contacts for a	[26] 10.2.1.2. 16.6	0	0
	single address of record			
2B	initiating a session?	[26] subclause 13	0	0
3	client behaviour for INVITE requests?	[26] subclause 13.2	c18	c18
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 8.2.6.1	0	0
7	authentication between UA and UA?	[26] subclause 22.2	0	0
8	authentication between UA and	[26] subclause 22.2	0	n/a
	registrar?			
8A	authentication between UA and proxy?	[26] 20.28, 22.3	0	0
9	server handling of merged requests due	[26] 8.2.2.2	m	m
-	to forking?			
10	client handling of multiple responses	[26] 13.2.2.4	m	m
	due to forking?			
11	insertion of date in requests and	[26] subclause 20.17	0	0
	responses?			
12	downloading of alerting information?	[26] subclause 20.4	0	0
	Extensions			
13	the SIP INFO method?	[25]	0	n/a
14	reliability of provisional responses in	[27]	c19	c18
	SIP?			
15	the REFER method?	[36]	0	0
16	integration of resource management	[30]	c19	c18
	and SIP?			
17	the SIP UPDATE method?	[29]	c5	c18
19	SIP extensions for media authorization?	[31]	0	c14
20	SIP specific event notification?	[28]	0	c13
21	the use of NOTIFY to establish a	[28] 4.2	0	n/a
	dialog?			
22	acting as the notifier of event	[28]	c2	c15
	information?			
23	acting as the subscriber to event	[28]	c2	c16
	information?			
24	session initiation protocol extension	[35]	0	c6
	header field for registering non-adjacent			
	contacts?			
25	private extensions to the Session	[34]	0	m
	Initiation Protocol (SIP) for network			
	asserted identity within trusted			
	networks?			
26	a privacy mechanism for the Session	[33]	0	m
	Initiation Protocol (SIP)?			
26A	request of privacy by the inclusion of a	[33]	c9	c11
	Privacy header indicating any privacy			
	option?	1001		
26B	application of privacy based on the	[33]	C9	n/a
	received Privacy header?	[00]	<u>^</u>	10
26C	passing on of the Privacy header	[33]	C9	c12
200	transparently?	[22] 5 4	-10	-07
26D	application of the privacy option	[33] 5.1	C10	C27
	neader such that those headers which			
	identifying information without the			
	assistance of intermediarios are			
	obscured?			
26F	application of the privacy option	[33] 5 2	c10	c27
	"session" such that anonymization for	[00] 0.2		

	the session(s) initiated by this message			
	occurs?			
26F	application of the privacy option "user"	[33] 5.3	c10	c27
	such that user level privacy functions			
	are provided by the network?			
26G	application of the privacy option "id"	[34] 7	c10	n/a
	such that privacy of the network			
	asserted identity is provided by the			
	network?			
27	a messaging mechanism for the 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-URI header	[52] 4.1	c21	c22
	extension?			
32	the P-Called-Party-ID header	[52] 4.2	c21	c23
_	extension?		-	
33	the P-Visited-Network-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	х
	protocol for symmetric response	1		
	routeing?			
40	caller preferences for the session	[56B]	C29	c29
	initiation protocol?			
40A	the proxy-directive within caller-	[56B] 9.1	0.5	0.5
	preferences?			
40B	the cancel-directive within caller-	[56B] 9.1	0.5	0.5
	preferences?			
40C	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?			

<ul> <li>c3: IF A.3/1 OR A.3/4 THEN m ELSE n/a UE or S-CSCF functional entity.</li> <li>c4: IF A.3/4 THEN m ELSE IF A.3/7 THEN o ELSE n/a S-CSCF or AS functional entity.</li> <li>c5: IF A.4/16 THEN m ELSE o integration of resource management and SIP extension.</li> <li>c6: IF A.3/4 OR A.3/1 THEN m ELSE n/a S-CSCF or UE.</li> <li>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 a terminating UA or AS acting as originating UA or AS performing 3<sup>rd</sup> party call control.</li> </ul>
<ul> <li>c4: IF A.3/4 THEN m ELSE IF A.3/7 THEN o ELSE n/a S-CSCF or AS functional entity.</li> <li>c5: IF A.4/16 THEN m ELSE o integration of resource management and SIP extension.</li> <li>c6: IF A.3/4 OR A.3/1 THEN m ELSE n/a S-CSCF or UE.</li> <li>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 a terminating UA or AS acting as originating UA or AS performing 3<sup>rd</sup> party call control.</li> </ul>
<ul> <li>c5: IF A.4/16 THEN m ELSE o integration of resource management and SIP extension.</li> <li>c6: IF A.3/4 OR A.3/1 THEN m ELSE n/a S-CSCF or UE.</li> <li>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 a terminating UA or AS acting as originating UA or AS performing 3<sup>rd</sup> party call control.</li> </ul>
<ul> <li>c6: IF A.3/4 OR A.3/1 THEN m ELSE n/a S-CSCF or UE.</li> <li>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 a terminating UA or AS acting as originating UA or AS performing 3<sup>rd</sup> party call control.</li> </ul>
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 a terminating UA or AS acting as originating UA or AS performing 3 <sup>rd</sup> party call control.
terminating UA or AS acting as originating UA or AS performing 3 <sup>rd</sup> 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 o ELSE n/a UE or MGCF.
c12: IF A.3/7D THEN m ELSE n/a AS performing 3rd-party call control.
1 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 F
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 o.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 fo
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
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
the session initiation protocol for the 3rd-Generation Partnership Project (3GPP) and MGCF, AS acting 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 suppor
any directives within caller preferences for the session initiation protocol.
0.1: At least one of these capabilities is supported.
0.2: At least one of these capabilities is supported.
0.3: At least one of these capabilities is supported.
0.4. At least one of these capabilities is supported.
U.D. At least one of these capabilities is supported.
NOTE 1: At the INGUE, the Interworking specifications do not support a nandling of the header associated with the
extension.

#### Prerequisite A.5/20 - - SIP specific event notification

## Table A.4A: Supported event packages

<u>Item</u>	Does the implementation	Subscriber			Notifier		
	<u>support</u>	<u>Ref.</u>	<u>RFC</u> status	Profile status	<u>Ref.</u>	<u>RFC</u> status	Profile status
1	reg event package?	[43]	<u>c1</u>	<u>c3</u>	[43]	<u>c2</u>	<u>c4</u>
<u>2</u>	refer package?	[36] 3	<u>c5</u>	<u>c5</u>	[36] 3	<u>c5</u>	<u>c5</u>
<u>c1:</u>	IF A.4/23 THEN o ELSE n/a acting as the subscriber to event information.						
<u>c2:</u>	IF A.4/22 THEN o ELSE n/a acting as the notifier of event information.						
<u>c3:</u>	IF A.3/1 OR A.3/2 THEN m ELSE IF A.3/7 THEN o ELSE n/a UE, P-CSCF, AS.						
<u>c4:</u>	IF A.3/4 THEN m ELSE n/a S-CSCF.						
c5:	IF A.4/15 THEN m ELSE n/a the REFER method.						