Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Agenda Item: 8.2

WI / Topic: SIP Call Control protocol for the IM Subsystem

Source: Lucent Technologies

Title: Material on profile tables for future inclusion in 24.229

Effected Specifications / Releases: 24.229

Document for: Information

Date: 24th February 2001

0   Abstract

This contribution gives examples of how the ideas discussed in N1-010095 would be implemented in 24.229.

1   Discussion

At the Beijing CN1 #15 meeting, N1-010095 discussed using requirements lists based on implementation conformance statement proformas as a means of documenting the requirements needed from the IETF SIP documentation, and the way it would be modified within 3GPP.

This document is finalised version of the information given in N1-010272, which was presented as advance information at the New Jersey meeting.

Note that these tables only change the status of a requirement and show that something that is optional in IETF, or conditional on a particular set of constraints, would become implemented as a more restrictive set of constraints, or mandatory in 3GPP.

Where new requirements are determined not covered by IETF (e.g. Path header) then requirements in text form will still have to be provided as a separate set of subclauses within 24.229.

3GPP TSG CN Plenary   Tdoc NP-010140

Meeting #11, Palm Springs, U.S.A

14th - 16th March 2001

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

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2 How have the tables been filled so far

2.1 Drafts included

All SIP RFCs internet drafts that are working group documents, and in standards track, have been included in this document. This is represented by the list of references in the current 24.229, with the exception of the final reference to SDP. It excludes RFC 2543, as the bis draft has been taken as the basis.

Note that most of the drafts giving extensions refer to RFC 2543, rather than to the bis draft, and most do not acknowledge the existence of each other, therefore the substance of the methods and headers relating to these drafts where they interact is somewhat conjectural – see the editors notes in the text. Therefore these areas should in particular be taken as a basis for contribution, both here and in to the IETF. In some cases, the tables in the internet-drafts appear to be just wrong!

2.2 Headers

1. Where the RFC indicates a header is mandatory to include, then the RFC status has been given as mandatory for both send and receive, and the profile status has also been similarly filled.

2. Where the TFC indicates that a header need not be included, the RFC status has been filled in as optional for both send and receive, and the profile status has not been completed. It is expected that any columns (i.e. send / receive, RFC status / profile status) of these entries may be changed after discussion to become conditional or even mandatory. It should be noted that many of these optional headers will be conditional, with very complex preconditions.

3. Where the RFC indicates that a header is not applicable, the row has been omitted from the table.

4. For responses, rather than insert the predicates, where the status is dependent on the status-code this has been temporarily noted beside the status (for the sending side only). This is pending a further discussion of the format of the response tables.

5. Separate message body tables have been provided to those for the headers, in cases where message bodies are allowed (they are not allowed for the CANCEL method).

3GPP TSG CN Plenary
Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001

Tdoc NP-010140

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

3   Proposal

It is proposed that the above tables are incorporated into 24.229 at the appropriate places. This replaces existing tables relating to methods and headers. The replace of other areas requires further discussion and input material. It is proposed that the editor reorganises existing material as appropriate.

It is proposed that these tables are included in the main body of the document, as they do not represent any technical decisions that need to stabilise before incorporation.

At the stage of development shown in this contribution, the tables for the other roles can be copied from those shown for the user role.

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

Attachment

x.1   Introduction to methodology within this profile

This clause does not reflect dynamic conformance requirements but static ones. In particular, an condition for support of a PDU parameter does not reflect requirements about the syntax of the PDU (i.e. the presence of a parameter) but the capability of the implementation to support the parameter.

In the sending direction, the support of a parameter means that the implementation is able to send this parameter (but it does not mean that the implementation always sends it).

In the receiving direction, it means that the implementation supports the whole semantic of the parameter.

As a consequence, PDU parameter tables in this clause are not the same as the tables describing the syntax of a PDU in the reference specification, e.g. RFC2543bis [1] table 5. It is not rare to see a parameter which is optional in the syntax but mandatory in clause below.

The various statii used in this clause are in accordance with the rules in table x.1.

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.1: Key to status codes

Status code	Status name	Meaning
m	mandatory	the capability shall be supported. It is a static view of the fact that the conformance requirem ents related to the capability in the reference specification are mandatory requirements. This does not mean that a given behaviour shall always be observed (this would be a dynamic view), but that it shall be observed when the implementation is placed in conditions where the conformance requirements from the reference specification compel it to do so. For instance, if the support for a parameter in a sent PDU is mandatory, it does not mean that it shall always be present, but that it shall be present according to the description of the behaviour in the reference specification (dynamic conformance requirement).
o	optional	the capability may or may not be supported. It is an implementation choice.
n/a	not applicable	it is impossible to use the capability. No answer in the support column is required.
x	prohibited (excluded)	It is not allowed to use the capability. This is more common for a profile.
c <integer>	conditional	the requirement on the capability ("m", "o", "n/a" or "x") depends on the support of other **optional or conditional** items. <integer> is the identifier of the conditional expression.
o.<integer>	qualified optional	for mutually exclusive or selectable options from a set. <integer> is the identifier of the group of options, and the logic of selection of the options.
i	irrelevant	capability outside the scope of the given specification. Normally, this notation should be used in a base specification ICS proforma only for transparent parameters in received PDUs. However, it may be useful in other cases, when the base specification is in fact based on another standard.

x.2   Roles

x.3   User agent role

x.3.1   Major capabilities

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

x.3.2   PDUs

Table x.2: Supported methods

Item	PDU	Sending			Receiving		
		Ref.	**RFC status**	**Profile status**	**Ref.**	**RFC status**	**Profile status**
1	ACK request	[1] 4.2.2	m	m	[1] 4.2.2	m	m
2	BYE request	[1] 4.2.4	o		[1] 4.2.4	o	
3	BYE response	[1] 4.2.4	o		[1] 4.2.4	o	
4	CANCEL request	[1] 4.2.5	o		[1] 4.2.5	o	
5	CANCEL response	[1] 4.2.5	o		[1] 4.2.5	o	
6	COMET request	[8] 5	o		[8] 5	o	
7	COMET response	[8] 5	o		[8] 5	o	
8	INFO request	[2] 2	o		[2] 2	o	
9	INFO response	[2] 2	o		[2] 2	o	
10	INVITE request	[1] 4.2.1	m	m	[1] 4.2.1	m	m
11	INVITE response	[1] 4.2.1	m	m	[1] 4.2.1	m	m
12	OPTIONS request	[1] 4.2.3	m	m	[1] 4.2.3	m	m
13	OPTIONS response	[1] 4.2.3	m	m	[1] 4.2.3	m	m
14	PRACK request	[3] 5.1	o		[3] 5.2	o	
15	PRACK response	[3] 5.1	o		[3] 5.2	o	
16	REFER request	[5] 3	o		[5] 3	o	
17	REFER response	[5] 3	o		[5] 3	o	
18	REGISTER request	[1] 4.2.6	o		[1] 4.2.6	n/a	
19	REGISTER response	[1] 4.2.6	n/a		[1] 4.2.6	m	

Editor's note: Optional status of BYE in RFC status is given because RFC states SHOULD (client and server).

Editor's note: Optional status of REGISTER in RFC status is given because RFC states RECOMMENDED (client); for the UAS, not statement is made, but it is assumed that this therefore means n/a.

x.3.3   PDU parameters

x.3.3.1   ACK method

Prerequisite 2/1 – ACK request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.3: Supported headers within the ACK request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 6.10	o		[1] 6.10	o	
2	Authorization	[1] 6.12	o		[1] 6.12	o	
3	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
4	Contact	[1] 6.15	o		[1] 6.15	o	
5	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
6	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
7	Content-Language	[1] 6.18	o		[1] 6.18	o	
8	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
9	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
10	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
11	Date	[1] 6.22	o		[1] 6.22	o	
12	Encryption	[1] 6.23	o		[1] 6.23	o	
13	From	[1] 6.26	m	m	[1] 6.26	m	m
14	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
15	MIME-Version	[1] 6.29	o		[1] 6.29	o	
16	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
17	Proxy-Require	[1] 6.34	o		[1] 6.34	o	
18	Record-Route	[1] 6.35	o		[1] 6.35	o	
19	Require	[1] 6.36, [6] 2.2	o		[1] 6.36, [6] 2.2	o	
20	Route	[1] 6.39	o		[1] 6.39	o	
21	State	[10] 5.1	o		[10] 5.1	o	
22	Timestamp	[1] 6.43	o		[1] 6.43	o	
23	To	[1] 6.44	m	m	[1] 6.44	m	m
24	User-Agent	[1] 6.46	o		[1] 6.46	o	
25	Via	[1] 6.47	m	m	[1] 6.47	m	m

Editor's note: Is the following table a suitable way of showing the contents of message bodies.

Table x.4: Supported message bodies within the ACK request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

x.3.3.2   BYE method

Prerequisite 2/2 – BYE request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.5: Supported headers within the BYE request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 6.7	o		[1] 6.7	o	
4	Accept-Language	[1] 6.8	o		[1] 6.8	o	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
8	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
9	Content-Language	[1] 6.18	o		[1] 6.18	o	
10	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
11	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
12	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
13	Date	[1] 6.22	o		[1] 6.22	o	
14	Encryption	[1] 6.23	o		[1] 6.23	o	
15	From	[1] 6.26	m	m	[1] 6.26	m	m
16	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
17	MIME-Version	[1] 6.29	o		[1] 6.29	o	
18	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
19	Proxy-Require	[1] 6.34, [10] 3	o		[1] 6.34, [10] 3	o	
20	Record-Route	[1] 6.35	o		[1] 6.35	o	
21	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
22	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
23	Require	[1] 6.36, [6] 2.2, [10] 3	o		[1] 6.36, [6] 2.2, [10] 3	o	
24	Response-Key	[1] 6.37	o		[1] 6.37	o	
25	Route	[1] 6.39	o		[1] 6.39	o	
26	State	[10] 5.1	o		[10] 5.1	o	
27	Supported	[1] 6.42, [6] 2.1, [7] 5, [10] 3	o		[1] 6.42, [6] 2.1, [7] 5, [10] 3	o	
28	Timestamp	[1] 6.43	o		[1] 6.43	o	
29	To	[1] 6.44	m	m	[1] 6.44	m	m
30	User-Agent	[1] 6.46	o		[1] 6.46	o	
31	Via	[1] 6.47	m	m	[1] 6.47	m	m

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.6: Supported message bodies within the BYE request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Prerequisite 2/3 – BYE response

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

26 February 2001 to 01 March 2001,

Sophia France

Tdoc N1-010410

Table x.7: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o (415 only)		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o (415 only)		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o (415 only)		[1] 6.8	o	
4	Allow	[1] 6.10	m (405 only)		[1] 6.10	m	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Contact	[1] 6.15	o (3xx and 485 only)		[1] 6.15	o	
8	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
9	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
10	Content-Language	[1] 6.18	o		[1] 6.18	o	
11	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
12	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
13	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
14	Date	[1] 6.22	o		[1] 6.22	o	
15	Encryption	[1] 6.23	o		[1] 6.23	o	
16	Error-Info	[1] 6.24	o		[1] 6.24	o	
17	From	[1] 6.26	m	m	[1] 6.26	m	m
18	MIME-Version	[1] 6.29	o		[1] 6.29	o	
19	Proxy-Authenticate	[1] 6.32	o (401 and 407 only)		[1] 6.32	o	
20	Record-Route	[1] 6.35	o (2xx, 401, 484 only)		[1] 6.35	o	
21	Require	[6] 2.2	o		[6] 2.2	o	
22	Retry-After	[1] 6.38	o (404, 413, 480, 486, 500, 503, 600, 603 only)		[1] 6.38	o	
23	Rseq	[3] 5.1	o (1xx only)		[3] 5.2		
24	Server	[1] 6.40	o		[1] 6.40	o	
25	State	[10] 5.1	o		[10] 5.1	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

26	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	
27	Timestamp	[1] 6.43	o		[1] 6.43	o	
28	To	[1] 6.44	m	m	[1] 6.44	m	m
29	Unsupported	[1] 6.45	o (420 only)		[1] 6.45	o	
30	User-Agent	[1] 6.46	o		[1] 6.46	o	
31	Via	[1] 6.47	m	m	[1] 6.47	m	m
32	Warning	[1] 6.48	o		[1] 6.48	o	
33	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

Table x.8: Supported message bodies within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

x.3.3.3   CANCEL method

Prerequisite 2/4 – CANCEL request

3GPP TSG CN Plenary   Tdoc NP-010140
Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.9: Supported headers within the CANCEL request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 6.7	o		[1] 6.7	o	
4	Accept-Language	[1] 6.8	o		[1] 6.8	o	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Content-Language	[1] 6.18	o		[1] 6.18	o	
8	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
9	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
10	Date	[1] 6.22	o		[1] 6.22	o	
11	Encryption	[1] 6.23	o		[1] 6.23	o	
12	From	[1] 6.26	m	m	[1] 6.26	m	m
13	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
14	MIME-Version	[1] 6.29	o		[1] 6.29	o	
15	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
16	Proxy-Require	[1] 6.34, [10] 3	o		[1] 6.34, [10] 3	o	
17	Record-Route	[1] 6.35	o		[1] 6.35	o	
18	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
19	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
20	Require	[1] 6.36, [6] 2.2, [10] 3	o		[1] 6.36, [6] 2.2, [10] 3	o	
21	Response-Key	[1] 6.37	o		[1] 6.37	o	
22	State	[10] 5.1	o		[10] 5.1	o	
23	Supported	[1] 6.42, [6] 2.1, [7] 5, [10] 3	o		[1] 6.42, [6] 2.1, [7] 5, [10] 3	o	
24	Timestamp	[1] 6.43	o		[1] 6.43	o	
25	To	[1] 6.44	m	m	[1] 6.44	m	m
26	User-Agent	[1] 6.46	o		[1] 6.46	o	
27	Via	[1] 6.47	m	m	[1] 6.47	m	m

Prerequisite 2/5 – CANCEL request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Table x.10: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o (415 only)		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o (415 only)		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o (415 only)		[1] 6.8	o	
4	Allow	[1] 6.10	m (405 only)		[1] 6.10, [1] 4.2.1	m	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Content-Language	[1] 6.18	o		[1] 6.18	o	
8	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
9	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
10	Date	[1] 6.22	o		[1] 6.22	o	
11	Encryption	[1] 6.23	o		[1] 6.23	o	
12	From	[1] 6.26	m	m	[1] 6.26	m	m
13	MIME-Version	[1] 6.29	o		[1] 6.29	o	
14	Proxy-Authenticate	[1] 6.32	o (401 and 407 only)		[1] 6.32	o	
15	Record-Route	[1] 6.35	o (2xx, 401, 484 only)		[1] 6.35	o	
16	Require	[6] 2.2	o		[6] 2.2	o	
17	Retry-After	[1] 6.38	o (404, 413, 480, 486, 500, 503, 600, 603 only)		[1] 6.38	n/a	
18	Rseq	[3] 5.1	o (1xx only)		[3] 5.2		
19	State	[10] 5.1	o		[10] 5.1	o	
20	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	
21	Timestamp	[1] 6.43	o		[1] 6.43	o	
22	To	[1] 6.44	m	m	[1] 6.44	m	m
23	Unsupported	[1] 6.45	o (420 only)		[1] 6.45	o	
24	User-Agent	[1] 6.46	o		[1] 6.46	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

25	Via	[1] 6.47	m	m	[1] 6.47	m	m
26	Warning	[1] 6.48	o		[1] 6.48	o	
27	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

x.3.3.4   COMET method

Prerequisite 2/6 – COMET request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.11: Supported headers within the COMET request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 6.7	o		[1] 6.7	o	
4	Accept-Language	[1] 6.8	o		[1] 6.8	o	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Contact	[1] 6.15	o		[1] 6.15	o	
8	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
9	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
10	Content-Language	[1] 6.18	o		[1] 6.18	o	
11	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
12	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
13	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
14	Date	[1] 6.22	o		[1] 6.22	o	
15	Encryption	[1] 6.23	o		[1] 6.23	o	
16	Expires	[1] 6.25	o		[1] 6.25	o	
17	From	[1] 6.26	m	m	[1] 6.26	m	m
18	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
19	MIME-Version	[1] 6.29	o		[1] 6.29	o	
20	Organization	[1] 6.30	o		[1] 6.30	o	
21	Priority	[1] 6.31	o		[1] 6.31	o	
22	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
23	Proxy-Require	[1] 6.34, [10] 3	o		[1] 6.34, [10] 3	o	
24	Record-Route	[1] 6.35	o		[1] 6.35	o	
25	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
26	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
27	Require	[1] 6.36, [6] 2.2, [10] 3	o		[1] 6.36, [6] 2.2, [10] 3	o	
28	Response-Key	[1] 6.37	o		[1] 6.37	o	
29	Route	[1] 6.39	o		[1] 6.39	o	
30	State	[10] 5.1	o		[10] 5.1	o	
31	Subject	[1] 6.41	o		[1] 6.41	o	
32	Supported	[1] 6.42, [6] 2.1, [7] 5, [10] 3	o		[1] 6.42, [6] 2.1, [7] 5, [10] 3	o	
33	Timestamp	[1] 6.43	o		[1] 6.43	o	
34	To	[1] 6.44	m	m	[1] 6.44	m	m
35	User-Agent	[1] 6.46	o		[1] 6.46	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

| 36 | Via | [1] 6.47 | m | m | [1] 6.47 | m | m |

Editor's note: For those headers and status-codes that were not defined in the original RFC 2543, the above is a best guess at the application. The Hide header has not been included as its usage is now deprecated.

Table x.12: Supported message bodies within the COMET request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Prerequisite 2/7 – COMET response

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.13: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o (415 only)		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o (415 only)		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o (415 only)		[1] 6.8	o	
4	Allow	[1] 6.10	m (200, 405 only)		[1] 6.10	m	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Contact	[1] 6.15	o (3xx and 485 only)		[1] 6.15	o	
8	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
9	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
10	Content-Language	[1] 6.18	o		[1] 6.18	o	
11	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
12	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
13	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
14	Date	[1] 6.22	o		[1] 6.22	o	
15	Encryption	[1] 6.23	o		[1] 6.23	o	
16	Error-Info	[1] 6.24	o		[1] 6.24	o	
17	Expires	[1] 6.25	o		[1] 6.25	o	
18	From	[1] 6.26	m	m	[1] 6.26	m	m
19	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
20	MIME-Version	[1] 6.29	o		[1] 6.29	o	
21	Organization	[1] 6.30	o		[1] 6.30	o	
22	Proxy-Authenticate	[1] 6.32	o (401 and 407 only)		[1] 6.32	o	
23	Record-Route	[1] 6.35	o (2xx only)		[1] 6.35	o	
24	Require	[6] 2.2	o		[6] 2.2	o	
25	Retry-After	[1] 6.38	o (404, 480, 486, 503, 600, 603 only)		[1] 6.38	o	
26	Rseq	[3] 5.1	o (1xx only)		[3] 5.2		
27	Server	[1] 6.40	o		[1] 6.40	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

28	State	[10] 5.1	o		[10] 5.1	o	
29	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	
30	Timestamp	[1] 6.43	o		[1] 6.43	o	
31	To	[1] 6.44	m	m	[1] 6.44	m	m
32	Unsupported	[1] 6.45	o (420 only)		[1] 6.45	o	
33	User-Agent	[1] 6.46	o		[1] 6.46	o	
34	Via	[1] 6.47	m	m	[1] 6.47	m	m
35	Warning	[1] 6.48	o		[1] 6.48	o	
36	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

Editor's note: For those headers and status-codes that were not defined in the original RFC 2543, the above is a best guess at the application. The Hide header has not been included as its usage is now deprecated.

Table x.14: Supported message bodies within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

x.3.3.5 INFO method

Prerequisite 2/8 – INFO request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Table x.15: Supported headers within the INFO request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 6.7	o		[1] 6.7	o	
4	Accept-Language	[1] 6.8	o		[1] 6.8	o	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m		[1] 6.13	m	
7	Contact	[1] 6.15	o		[1] 6.15	o	
8	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
9	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
10	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
11	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
12	Date	[1] 6.22	o		[1] 6.22	o	
13	Encryption	[1] 6.23	o		[1] 6.23	o	
14	Expires	[1] 6.25	o		[1] 6.25	o	
15	From	[1] 6.26	m	m	[1] 6.26	m	m
16	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
17	Organization	[1] 6.30	o		[1] 6.30	o	
18	Priority	[1] 6.31	o		[1] 6.31	o	
19	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
20	Proxy-Require	[1] 6.34, [10] 3	o		[1] 6.34, [10] 3	o	
21	Record-Route	[1] 6.35	o		[1] 6.35	o	
22	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
23	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
24	Require	[1] 6.36, [6] 2.2, [10] 3	o		[1] 6.36, [6] 2.2, [10] 3	o	
25	Response-Key	[1] 6.37	o		[1] 6.37	o	
26	Route	[1] 6.39	o		[1] 6.39	o	
27	State	[10] 5.1	o		[10] 5.1	o	
28	Subject	[1] 6.41	o		[1] 6.41	o	
29	Supported	[1] 6.42, [6] 2.1, [7] 5, [10] 3	o		[1] 6.42, [6] 2.1, [7] 5, [10] 3	o	
30	Timestamp	[1] 6.43	o		[1] 6.43	o	
31	To	[1] 6.44	m	m	[1] 6.44	m	m
32	User-Agent	[1] 6.46	o		[1] 6.46	o	
33	Via	[1] 6.47	m	m	[1] 6.47	m	m

3GPP TSG CN Plenary   Tdoc NP-010140

Meeting #11, Palm Springs, U.S.A

14th - 16th March 2001

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Editor's note: This comment may be academic as we are probably not supporting the INFO method. The contents of the above table differ from the contents of other tables due to the RFC for the INFO method being based on RFC 2543. Headers which would be expected in this table, i.e. Content-Disposition, Content-Language, and MIME-Version, are therefore not included. While the Hide header has been defined in the RFC, it has been omitted from this table as its use is not allowed in the bis draft. Supported has been added because the bis draft indicates it is included in all responses.

Editor's note: [4] does not define whether the Accept-Contact, Reject-Contact or Request-Disposition headers should be used in this request, but they have been included on the assumption of applicability to all methods where exceptions are not stated.

Table x.16: Supported message bodies within the INFO request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Prerequisite 2/9 – INFO response

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.17: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 6.10	m (200 and 405 only)		[1] 6.10	m	
2	Authorization	[1] 6.12	o		[1] 6.12	o	
3	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
4	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
5	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
6	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
7	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
8	Date	[1] 6.22	o		[1] 6.22	o	
9	Encryption	[1] 6.23	o		[1] 6.23	o	
10	Expires	[1] 6.25	o		[1] 6.25	o	
11	From	[1] 6.26	m	m	[1] 6.26	m	m
12	Organization	[1] 6.30	o		[1] 6.30	o	
13	Proxy-Authenticate	[1] 6.32	o (407 only)		[1] 6.32	o	
14	Record-Route	[1] 6.35	o (2xx only)		[1] 6.35	o	
15	Require	[6] 2.2	o		[6] 2.2	o	
16	Retry-After	[1] 6.38	o (404, 480, 486, 503, 600, 603 only)		[1] 6.38	o	
17	Rseq	[3] 5.1	o (1xx only)		[3] 5.2	o	
18	Server	[1] 6.40	o		[1] 6.40	o	
19	State	[10] 5.1	o		[10] 5.1	o	
20	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	
21	Timestamp	[1] 6.43	o		[1] 6.43	o	
22	To	[1] 6.44	m	m	[1] 6.44	m	m
23	Unsupported	[1] 6.45	o (420 only)		[1] 6.45	o	
24	User-Agent	[1] 6.46	o		[1] 6.46	o	
25	Via	[1] 6.47	m	m	[1] 6.47	m	m
26	Warning	[1] 6.48	o		[1] 6.48	o	
27	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Editor's note: This comment may be academic as we are probably not supporting the INFO method. The contents of the above table differ from the contents of other tables due to the RFC for the INFO method being based on RFC 2543. Headers which would be expected in this table, i.e. Accept, Accept-Encoding, Accept-Language, Content-Disposition, Content-Language, Error-Info, and MIME-Version, are therefore not included. Supported has been included as it is indicated that it is allowed in all responses in the bis draft.

Table x.18: Supported message bodies within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

x.3.3.6   INVITE method

Prerequisite 2/10 – INVITE request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Table x.19: Supported headers within the INVITE request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 6.7	o		[1] 6.7	o	
4	Accept-Language	[1] 6.8	o		[1] 6.8	o	
5	Alert-Info	[1] 6.9	o		[1] 6.9	o	
6	Allow	[1] 6.10, [1] 4.2.1	o		[1] 6.10, [1] 4.2.1	o	
7	Anonymity	[9] 5.2	o		[9] 5.2		
8	Authorization	[1] 6.12	o		[1] 6.12	o	
9	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
10	Call-Info	[1] 6.14	o		[1] 6.14	o	
11	Contact	[1] 6.15	m		[1] 6.15	m	
12	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
13	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
14	Content-Language	[1] 6.18	o		[1] 6.18	o	
15	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
16	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
17	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
18	Date	[1] 6.22	o		[1] 6.22	o	
19	Encryption	[1] 6.23	o		[1] 6.23	o	
20	Expires	[1] 6.25	o		[1] 6.25	o	
21	From	[1] 6.26	m	m	[1] 6.26	m	m
22	In-Reply-To	[1] 6.27	o		[1] 6.27	o	
23	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
24	MIME-Version	[1] 6.29	o		[1] 6.29	o	
25	Organization	[1] 6.30	o		[1] 6.30	o	
26	Priority	[1] 6.31	o		[1] 6.31	o	
27	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
28	Proxy-Require	[1] 6.34, [7] 4, [9] 4, [10] 3	o		[1] 6.34, [7] 4, [9] 4, [10] 3	o	
29	Record-Route	[1] 6.35	o		[1] 6.35	o	
30	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
31	Remote-Party-ID	[9] 5.1	o		[9] 5.1	o	
32	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
33	Require	[1] 6.36, [6] 2.2, [7] 4, [10] 3	o		[1] 6.36, [6] 2.2, [7] 4, [10] 3	o	
34	Response-Key	[1] 6.37	o		[1] 6.37	o	
35	Route	[1] 6.39	o		[1] 6.39	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

36	Session expires	[7] 3	o		[7] 3	o	
37	State	[10] 5.1	o		[10] 5.1	o	
38	Subject	[1] 6.41	o		[1] 6.41	o	
39	Supported	[1] 6.42, [1] 4.2.1, [6] 2.1, [7] 5, [10] 3	o		[1] 6.42, [1] 4.2.1, [6] 2.1, [7] 5, [10] 3	o	
40	Timestamp	[1] 6.43	o		[1] 6.43	o	
41	To	[1] 6.44	m	m	[1] 6.44	m	m
42	User-Agent	[1] 6.46	o		[1] 6.46	o	
43	Via	[1] 6.47	m	m	[1] 6.47	m	m

Table x.20: Supported message bodies within the INVITE request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Prerequisite 2/11 – INVITE response

Tdoc NP-010140

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Table x.21: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o (415 only)		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o (415 only)		[1] 6.8	o	
4	Allow	[1] 6.10	m (405 only) o (200 only)		[1] 6.10	m/o	
5	Anonymity	[9] 5.2	o		[9] 5.2		
6	Authorization	[1] 6.12	o		[1] 6.12	o	
7	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
8	Call-Info	[1] 6.14	o		[1] 6.14	o	
9	Contact	[1] 6.15	o (1xx, 3xx and 485 only) m (2xx only)		[1] 6.15	o/m	
10	Content-Disposition	[1] 6.16, [8] 8.3	o		[1] 6.16, [8] 8.3	o	
11	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
12	Content-Language	[1] 6.18	o		[1] 6.18	o	
13	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
14	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
15	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
16	Date	[1] 6.22	o		[1] 6.22	o	
17	Encryption	[1] 6.23	o		[1] 6.23	o	
18	Error-Info	[1] 6.24	o		[1] 6.24	o	
19	Expires	[1] 6.25	o		[1] 6.25	o	
20	From	[1] 6.26	m	m	[1] 6.26	m	m
21	Media-Authorization	[11] 5.1	o		[11] 5.1	o	
22	MIME-Version	[1] 6.29	o		[1] 6.29	o	
23	Organization	[1] 6.30	o		[1] 6.30	o	
24	Proxy-Authenticate	[1] 6.32	o (401 and 407 only)		[1] 6.32	o	
25	Record-Route	[1] 6.35	o (2xx, 401, 484 only)		[1] 6.35	o	
26	Remote-Party-ID	[9] 5.1	o		[9] 5.1	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

27	Require	[6] 2.2, [7] 5.2	o		[6] 2.2, [7] 5.2	o	
28	Retry-After	[1] 6.38	o (404, 413, 480, 486, 500, 503, 600, 603 only)		[1] 6.38	n/a	
29	Rseq	[3] 5.1	o (1xx only)		[3] 5.2		
30	Server	[1] 6.40	o		[1] 6.40	o	
31	Session expires	[7] 3	o		[7] 3	o	
32	State	[10] 5.1	o		[10] 5.1	o	
33	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	
34	Timestamp	[1] 6.43	o		[1] 6.43	o	
35	To	[1] 6.44	m	m	[1] 6.44	m	m
36	Unsupported	[1] 6.45	o (420 only)		[1] 6.45	o	
37	User-Agent	[1] 6.46	o		[1] 6.46	o	
38	Via	[1] 6.47	m	m	[1] 6.47	m	m
39	Warning	[1] 6.48	o		[1] 6.48	o	
40	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

Table x.22: Supported message bodies within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

x.3.3.7   OPTIONS method

Prerequisite 2/12 – OPTIONS request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.23: Supported headers within the OPTIONS request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 6.7	o		[1] 6.7	o	
4	Accept-Language	[1] 6.8	o		[1] 6.8	o	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Call-Info	[1] 6.14	o		[1] 6.14	o	
8	Contact	[1] 6.15	m		[1] 6.15	m	
9	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
10	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
11	Content-Language	[1] 6.18	o		[1] 6.18	o	
12	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
13	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
14	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
15	Date	[1] 6.22	o		[1] 6.22	o	
16	Encryption	[1] 6.23	o		[1] 6.23	o	
17	From	[1] 6.26	m	m	[1] 6.26	m	m
18	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
19	MIME-Version	[1] 6.29	o		[1] 6.29	o	
20	Organization	[1] 6.30	o		[1] 6.30	o	
21	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
22	Proxy-Require	[1] 6.34, [10] 3	o		[1] 6.34, [10] 3	o	
23	Record-Route	[1] 6.35	o		[1] 6.35	o	
24	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
25	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
26	Require	[1] 6.36, [6] 2.2, [10] 3	o		[1] 6.36, [6] 2.2, [10] 3	o	
27	Response-Key	[1] 6.37	o		[1] 6.37	o	
28	Route	[1] 6.39	o		[1] 6.39	o	
29	State	[10] 5.1	o		[10] 5.1	o	
30	Supported	[1] 6.42, [6] 2.1, [7] 5, [10] 3	o		[1] 6.42, [6] 2.1, [7] 5, [10] 3	o	
31	Timestamp	[1] 6.43	o		[1] 6.43	o	
32	To	[1] 6.44	m	m	[1] 6.44	m	m
33	User-Agent	[1] 6.46	o		[1] 6.46	o	
34	Via	[1] 6.47	m	m	[1] 6.47	m	m

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Table x.24: Supported message bodies within the OPTIONS request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Prerequisite 2/13 – OPTIONS response

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

26 February 2001 to 01 March 2001,

Sophia France

Tdoc N1-010410

Table x.25: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o (415 only)		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o (415 only)		[1] 6.8	o	
4	Allow	[1] 6.10	o (200 only) m (405 only)		[1] 6.10	o/m	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Call-Info	[1] 6.14	o		[1] 6.14	o	
8	Contact	[1] 6.15	o (1xx, 2xx, 3xx and 485 only)		[1] 6.15	o	
9	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
10	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
11	Content-Language	[1] 6.18	o		[1] 6.18	o	
12	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
13	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
14	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
15	Date	[1] 6.22	o		[1] 6.22	o	
16	Encryption	[1] 6.23	o		[1] 6.23	o	
17	Error-Info	[1] 6.24	o		[1] 6.24	o	
18	From	[1] 6.26	m	m	[1] 6.26	m	m
19	MIME-Version	[1] 6.29	o		[1] 6.29	o	
20	Organization	[1] 6.30	o		[1] 6.30	o	
21	Proxy-Authenticate	[1] 6.32	o (401 and 407 only)		[1] 6.32	o	
22	Record-Route	[1] 6.35	o (2xx, 401, 484 only)		[1] 6.35	o	
23	Require	[6] 2.2	o		[6] 2.2	o	
24	Retry-After	[1] 6.38	o (404, 413, 480, 486, 500, 503, 600, 603 only)		[1] 6.38	n/a	
25	Rseq	[3] 5.1	o (1xx		[3] 5.2		

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

			only)				
26	Server	[1] 6.40	o		[1] 6.40	o	
27	State	[10] 5.1	o		[10] 5.1	o	
28	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	
29	Timestamp	[1] 6.43	o		[1] 6.43	o	
30	To	[1] 6.44	m	m	[1] 6.44	m	m
31	Unsupported	[1] 6.45	o (420 only)		[1] 6.45	o	
32	User-Agent	[1] 6.46	o		[1] 6.46	o	
33	Via	[1] 6.47	m	m	[1] 6.47	m	m
34	Warning	[1] 6.48	o		[1] 6.48	o	
35	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

Table x.26: Supported message bodies within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

x.3.3.1   PRACK method

Prerequisite 2/14 – PRACK request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Table x.27: Supported headers within the PRACK request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 6.7	o		[1] 6.7	o	
4	Accept-Language	[1] 6.8	o		[1] 6.8	o	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
8	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
9	Content-Language	[1] 6.18	o		[1] 6.18	o	
10	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
11	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
12	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
13	Date	[1] 6.22	o		[1] 6.22	o	
14	Encryption	[1] 6.23	o		[1] 6.23	o	
15	From	[1] 6.26	m	m	[1] 6.26	m	m
16	MIME-Version	[1] 6.29	o		[1] 6.29	o	
17	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
18	Proxy-Require	[1] 6.34, [10] 3	o		[1] 6.34, [10] 3	o	
19	RAck	[3] 5.1	m		[3] 5.1	m	
20	Record-Route	[1] 6.35	o		[1] 6.35	o	
21	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
22	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
23	Require	[1] 6.36, [6] 2.2, [10] 3	o		[1] 6.36, [6] 2.2, [10] 3	o	
24	Route	[1] 6.39	o		[1] 6.39	o	
25	State	[10] 5.1	o		[10] 5.1	o	
26	Supported	[1] 6.42, [6] 2.1, [7] 5, [10] 3	o		[1] 6.42, [6] 2.1, [7] 5, [10] 3	o	
27	Timestamp	[1] 6.43	o		[1] 6.43	o	
28	To	[1] 6.44	m	m	[1] 6.44	m	m
29	User-Agent	[1] 6.46	o		[1] 6.46	o	
30	Via	[1] 6.47	m	m	[1] 6.47	m	m

Editor's note: As [3] does not give a definitive list of headers that can be included in the PRACK method, the above table is a best guess at what SIP allows.

3GPP TSG CN Plenary   Tdoc NP-010140
Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Editor's note: [4] does not define whether the Accept-Contact, Reject-Contact or Request-Disposition headers
should be used in this request, but they have been included on the assumption of applicability to all
methods where exceptions are not stated.

Editor's note: Supported has been added as the bis draft indicates it is included in all headers and all responses.

Table x.28: Supported message bodies within the PRACK request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Prerequisite 2/15 – PRACK response

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.29: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o (415 only)		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o (415 only)		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o (415 only)		[1] 6.8	o	
4	Allow	[1] 6.10	m (405 only)		[1] 6.10	m	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Contact	[1] 6.15	o (3xx and 485 only)		[1] 6.15	o	
8	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
9	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
10	Content-Language	[1] 6.18	o		[1] 6.18	o	
11	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
12	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
13	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
14	Date	[1] 6.22	o		[1] 6.22	o	
15	Encryption	[1] 6.23	o		[1] 6.23	o	
16	Error-Info	[1] 6.24	o		[1] 6.24	o	
17	From	[1] 6.26	m	m	[1] 6.26	m	m
18	MIME-Version	[1] 6.29	o		[1] 6.29	o	
19	Proxy-Authenticate	[1] 6.32	o (401 and 407 only)		[1] 6.32	o	
20	Record-Route	[1] 6.35	o (2xx, 401, 484 only)		[1] 6.35	o	
21	Retry-After	[1] 6.38	o (404, 413, 480, 486, 500, 503, 600, 603 only)		[1] 6.38	n/a	
22	Server	[1] 6.40	o		[1] 6.40	o	
23	State	[10] 5.1	o		[10] 5.1	o	
24	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

26 February 2001 to 01 March 2001,

Sophia France

Tdoc N1-010410

25	Timestamp	[1] 6.43	o		[1] 6.43	o	
26	To	[1] 6.44	m	m	[1] 6.44	m	m
27	User-Agent	[1] 6.46	o		[1] 6.46	o	
28	Via	[1] 6.47	m	m	[1] 6.47	m	m
29	Warning	[1] 6.48	o		[1] 6.48	o	
30	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

Editor's note: As the 100rel draft does not give a definitive list of headers that can be included in the PRACK method, the above table is a best guess at what SIP allows.

Editor's note: Supported has been added as the bis draft indicates it is included in all headers and all responses.

Table x.30: Supported message bodies within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

x.3.3.9 REFER method

Prerequisite 2/16 – REFER request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.31: Supported headers within the REFER request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
2	Accept-Language	[1] 6.8	o		[1] 6.8	o	
3	Authorization	[1] 6.12	o		[1] 6.12	o	
4	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
5	Contact	[1] 6.15	o		[1] 6.15	o	
6	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
7	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
8	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
9	Date	[1] 6.22	o		[1] 6.22	o	
10	Encryption	[1] 6.23	o		[1] 6.23	o	
11	Expires	[1] 6.25	o		[1] 6.25	o	
12	From	[1] 6.26	m	m	[1] 6.26	m	m
13	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
14	MIME-Version	[1] 6.29	o		[1] 6.29	o	
15	Organization	[1] 6.30	o		[1] 6.30	o	
16	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
17	Proxy-Require	[1] 6.34, [10] 3	o		[1] 6.34, [10] 3	o	
18	Record-Route	[1] 6.35	o		[1] 6.35	o	
19	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
20	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
21	Require	[1] 6.36, [6] 2.2, [10] 3	o		[1] 6.36, [6] 2.2, [10] 3	o	
22	Response-Key	[1] 6.37	o		[1] 6.37	o	
23	Route	[1] 6.39	o		[1] 6.39	o	
24	State	[10] 5.1	o		[10] 5.1	o	
25	Supported	[1] 6.42, [1] 4.2.1, [7] 5, [10] 3	o		[1] 6.42, [1] 4.2.1, [7] 5, [10] 3	o	
26	Timestamp	[1] 6.43	o		[1] 6.43	o	
27	To	[1] 6.44	m	m	[1] 6.44	m	m
28	User-Agent	[1] 6.46	o		[1] 6.46	o	
29	Via	[1] 6.47	m	m	[1] 6.47	m	m

3GPP TSG CN Plenary   Tdoc NP-010140
Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Editor's note: The contents of the above table differ from the contents of other tables due to the cc-transfer draft
being based on RFC 2543. Headers which would be expected in this table, i.e. Content-Disposition,
Content-Language, MIME-Version and Supported, have been included, while not defined in cc-transfer.
While the Hide header has been defined in the RFC, it has been omitted from this table as its use is not
allowed in the bis draft.

Table x.32: Supported message bodies within the REFER request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Prerequisite 2/17 – REFER response

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Table x.33: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o (415 only)		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o (415 only)		[1] 6.8	o	
4	Allow	[1] 6.10	m (405 only)		[1] 6.10	o	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Contact	[1] 6.15	o (2xx through 6xx only)		[1] 6.15	o	
8	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
9	Content-Language	[1] 6.18	o		[1] 6.18	o	
10	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
11	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
12	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
13	Date	[1] 6.22	o		[1] 6.22	o	
14	Encryption	[1] 6.23	o		[1] 6.23	o	
15	Expires	[1] 6.25	o		[1] 6.25	o	
16	From	[1] 6.26	m	m	[1] 6.26	m	m
17	MIME-Version	[1] 6.29	o		[1] 6.29	o	
18	Organization	[1] 6.30	o		[1] 6.30	o	
19	Proxy-Authenticate	[1] 6.32	o (401 and 407 only)		[1] 6.32	o	
20	Record-Route	[1] 6.35	o (2xx)		[1] 6.35	o	
21	Require	[6] 2.2	o		[6] 2.2	o	
22	Retry-After	[1] 6.38	o (404, 480, 486, 503, 600, 603 only)		[1] 6.38	o	
23	Rseq	[3] 5.1	o (1xx only)		[3] 5.2		
24	Server	[1] 6.40	o		[1] 6.40	o	
25	State	[10] 5.1	o		[10] 5.1	o	
26	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	
27	Timestamp	[1] 6.43	o		[1] 6.43	o	

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

28	To	[1] 6.44	m	m	[1] 6.44	m	m
29	Unsupported	[1] 6.45	o (420 only)		[1] 6.45	o	
30	User-Agent	[1] 6.46	o		[1] 6.46	o	
31	Via	[1] 6.47	m	m	[1] 6.47	m	m
32	Warning	[1] 6.48	o		[1] 6.48	o	
33	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

Editor's note: The contents of the above table differ from the contents of other tables due to the cc-transfer draft being based on RFC 2543. Headers which would be expected in this table, i.e. Content-Disposition, Content-Language, MIME-Version and Supported, have been included, while not defined in cc-transfer. While the Hide header has been defined in the RFC, it has been omitted fro m this table as its use is not allowed in the bis draft.

Table x.34: Supported message bodies within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

x.3.3.9   REGISTER method

Prerequisite 2/18 – REGISTER request

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.35: Supported headers within the REGISTER request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o		[1] 6.8	o	
4	Authorization	[1] 6.12	o		[1] 6.12	o	
5	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
6	Call-Info	[1] 6.14	o		[1] 6.14	o	
7	Contact	[1] 6.15	m		[1] 6.15	m	
8	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
9	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
10	Content-Language	[1] 6.18	o		[1] 6.18	o	
11	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
12	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
13	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
14	Date	[1] 6.22	o		[1] 6.22	o	
15	Encryption	[1] 6.23	o		[1] 6.23	o	
16	Expires	[1] 6.25	o		[1] 6.25	o	
17	From	[1] 6.26	m	m	[1] 6.26	m	m
18	Max-Forwards	[1] 6.28	o		[1] 6.28	o	
19	MIME-Version	[1] 6.29	o		[1] 6.29	o	
20	Organization	[1] 6.30	o		[1] 6.30	o	
21	Proxy-Authorisation	[1] 6.33	o		[1] 6.33	o	
22	Proxy-Require	[1] 6.34, [10] 3	o		[1] 6.34, [10] 3	o	
23	Record-Route	[1] 6.35	o		[1] 6.35	o	
24	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
25	Require	[1] 6.36, [6] 2.2, [10] 3	o		[1] 6.36, [6] 2.2, [10] 3	o	
26	Response-Key	[1] 6.37	o		[1] 6.37	o	
27	Retry-After	[1] 6.38	o		[1] 6.38	o	
28	Route	[1] 6.39	o		[1] 6.39	o	
29	State	[10] 5.1	o		[10] 5.1	o	
30	Supported	[1] 6.42, [6] 2.1, [7] 5, [10] 3	o		[1] 6.42, [6] 2.1, [7] 5, [10] 3	o	
31	Timestamp	[1] 6.43	o		[1] 6.43	o	
32	To	[1] 6.44	m	m	[1] 6.44	m	m
33	User-Agent	[1] 6.46	o		[1] 6.46	o	
34	Via	[1] 6.47	m	m	[1] 6.47	m	m

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

Table x.36: Supported message bodies within the REGISTER request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Prerequisite 2/19 – REGISTER response

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

Tdoc N1-010410

26 February 2001 to 01 March 2001,

Sophia France

Table x.37: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 6.6	o		[1] 6.6	o	
2	Accept-Encoding	[1] 6.7	o (415 only)		[1] 6.7	o	
3	Accept-Language	[1] 6.8	o (415 only)		[1] 6.8	o	
4	Allow	[1] 6.10	o (200 only) m (405 only)		[1] 6.10	o / m	
5	Authorization	[1] 6.12	o		[1] 6.12	o	
6	Call-ID	[1] 6.13	m	m	[1] 6.13	m	m
7	Call-Info	[1] 6.14	o		[1] 6.14	o	
8	Contact	[1] 6.15	o (2xx, 3xx and 485 only)		[1] 6.15	o	
9	Content-Disposition	[1] 6.16	o		[1] 6.16	o	
10	Content-Encoding	[1] 6.17	o		[1] 6.17	o	
11	Content-Language	[1] 6.18	o		[1] 6.18	o	
12	Content-Length	[1] 6.19	m	m	[1] 6.19	m	m
13	Content-Type	[1] 6.20	m	m	[1] 6.20	m	m
14	Cseq	[1] 6.21	m	m	[1] 6.21	m	m
15	Date	[1] 6.22	o		[1] 6.22	o	
16	Encryption	[1] 6.23	o		[1] 6.23	o	
17	Error-Info	[1] 6.24	o		[1] 6.24	o	
18	Expires	[1] 6.25	o		[1] 6.25	o	
19	From	[1] 6.26	m	m	[1] 6.26	m	m
20	Organization	[1] 6.30	o		[1] 6.30	o	
21	MIME-Version	[1] 6.29	o		[1] 6.29	o	
22	Proxy-Authenticate	[1] 6.32	o (401 and 407 only)		[1] 6.32	o	
23	Record-Route	[1] 6.35	o (2xx, 401, 484 only)		[1] 6.35	o	
24	Require	[6] 2.2	o		[6] 2.2	o	
25	Retry-After	[1] 6.38	o (404, 413, 480, 486, 500, 503, 600, 603 only)		[1] 6.38	n/a	
26	Rseq	[3] 5.1	o (1xx		[3] 5.2		

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Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

26 February 2001 to 01 March 2001,

Sophia France

Tdoc N1-010410

			only)				
27	Server	[1] 6.40	o		[1] 6.40	o	
28	State	[10] 5.1	o		[10] 5.1	o	
29	Supported	[1] 6.42, [6] 2.1, [10] 3	o		[1] 6.42, [6] 2.1, [10] 3	o	
30	Timestamp	[1] 6.43	o		[1] 6.43	o	
31	To	[1] 6.44	m	m	[1] 6.44	m	m
32	Unsupported	[1] 6.45	o (420 only)		[1] 6.45	o	
33	User-Agent	[1] 6.46	o		[1] 6.46	o	
34	Via	[1] 6.47	m	m	[1] 6.47	m	m
35	Warning	[1] 6.48	o		[1] 6.48	o	
36	WWW-Authenticate	[1] 6.49	o (401 only)		[1] 6.49	o	

Table x.38: Supported message bodies within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1							

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16

26 February 2001 to 01 March 2001,

Sophia France

Tdoc N1-010410

x.4   Proxy role (towards a user agent)

x.4.1   Major capabilities

x.4.2   PDUs

Table x.39: Supported methods

Item	PDU	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	ACK request	[1] 4.2.2	m	m	[1] 4.2.2	m	m
2	BYE request	[1] 4.2.4	o		[1] 4.2.4	o	
3	BYE response	[1] 4.2.4	o		[1] 4.2.4	o	
4	CANCEL request	[1] 4.2.5	o		[1] 4.2.5	o	
5	CANCEL response	[1] 4.2.5	o		[1] 4.2.5	o	
6	COMET request	[8] 5	o		[8] 5	o	
7	COMET response	[8] 5	o		[8] 5	o	
8	INFO request	[2] 2	o		[2] 2	o	
9	INFO response	[2] 2	o		[2] 2	o	
10	INVITE request	[1] 4.2.1	m	m	[1] 4.2.1	m	m
11	INVITE response	[1] 4.2.1	m	m	[1] 4.2.1	m	m
12	OPTIONS request	[1] 4.2.3	m	m	[1] 4.2.3	m	m
13	OPTIONS response	[1] 4.2.3	m	m	[1] 4.2.3	m	m
14	PRACK request	[3] 5.1	o		[3] 5.2	o	
15	PRACK response	[3] 5.1	o		[3] 5.2	o	
16	REFER request	[5] 3	o		[5] 3	o	
17	REFER response	[5] 3	o		[5] 3	o	
18	REGISTER request	[1] 4.2.6	m	m	[1] 4.2.6	m	m
19	REGISTER response	[1] 4.2.6	m	m	[1] 4.2.6	m	m

Source: **TSG CN WG 1**

Title: **Editorial comments to TS 24.229**

Agenda item:

Document for:

3GPP TSG-CN-WG1, Meeting #16   *Tdoc N1-010410*

26 February 2001 to 01 March 2001,

Sophia France

x.4.3   PDU parameters

x.5   Proxy role (towards another proxy)

x.5.1   Major capabilities

x.5.2   PDUs

Table x.40: Supported methods

Item	PDU	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	ACK request	[1] 4.2.2	m	m	[1] 4.2.2	m	m
2	BYE request	[1] 4.2.4	o		[1] 4.2.4	o	
3	BYE response	[1] 4.2.4	o		[1] 4.2.4	o	
4	CANCEL request	[1] 4.2.5	o		[1] 4.2.5	o	
5	CANCEL response	[1] 4.2.5	o		[1] 4.2.5	o	
6	COMET request	[8] 5	o		[8] 5	o	
7	COMET response	[8] 5	o		[8] 5	o	
8	INFO request	[2] 2	o		[2] 2	o	
9	INFO response	[2] 2	o		[2] 2	o	
10	INVITE request	[1] 4.2.1	m	m	[1] 4.2.1	m	m
11	INVITE response	[1] 4.2.1	m	m	[1] 4.2.1	m	m
12	OPTIONS request	[1] 4.2.3	m	m	[1] 4.2.3	m	m
13	OPTIONS response	[1] 4.2.3	m	m	[1] 4.2.3	m	m
14	PRACK request	[3] 5.1	o		[3] 5.2	o	
15	PRACK response	[3] 5.1	o		[3] 5.2	o	
16	REFER request	[5] 3	o		[5] 3	o	
17	REFER response	[5] 3	o		[5] 3	o	
18	REGISTER request	[1] 4.2.6	m	m	[1] 4.2.6	m	m
19	REGISTER response	[1] 4.2.6	m	m	[1] 4.2.6	m	m

x.5.3   PDU parameters