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Abstract of document:

The present document defines a call control protocol for use in the IP multimedia (IM) Core Network (CN) subsystem based on the Session Initiation Protocol (SIP), and the associated Session Description Protocol (SDP).

The present document is applicable to all interfaces where SIP is used within the IM CN subsystem, or for access to the IM CN subsystem.

Where possible this document specifies the requirements for this protocol by reference to specifications produced by the IETF within the scope of SIP and SDP. Where this is not possible, extensions to SIP and SDP are defined within this document. The document has therefore been structured in order to allow both forms of specification.

Changes since last presentation to TSG <WG> Meeting #<N>:

The document has not been previously presented to TSG CN

Outstanding Issues:

CN1 believes the document is 60% stable, however there are a number of areas of functionality which remain to be defined. No special procedures have yet been identified for the MGCF, the MRFC or the AS. A number of areas of the profile specification remain to be completed.

Contentious Issues:

There is a dependency on IETF internet drafts which have yet to become RFCs. We are working closely with IETF to achieve completion of the majority of these by the proposed approval date.

**3rd Generation Partnership Project;
Technical Specification Group Core Network;
IP Multimedia Call Control Protocol based on SIP and SDP**

(Release 5)



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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

This clause is optional. If it exists, it is always the third unnumbered clause.

1 Scope

The present document defines a call control protocol for use in the IP multimedia (IM) Core Network (CN) subsystem based on the Session Initiation Protocol (SIP), and the associated Session Description Protocol (SDP).

The present document is applicable to:

- the interface between the User Equipment (UE) and the Call Session Control Function (CSCF);
- the interface between the CSCF and any other CSCF;
- the interface between the CSCF and an Application Server (AS);
- the interface between the CSCF and the Media Gateway Control Function (MGCF);
- the interface between the S-CSCF and the Media Resource Function Controller (MRFC)
- the interface between the CSCF and the Breakout Gateway Control Function (BGCF);
- the interface between the BGCF and the MGCF;
- the interface between the BGCF and any other BGCF; and
- the interface between the CSCF and an external Multimedia IP network.

Where possible this document specifies the requirements for this protocol by reference to specifications produced by the IETF within the scope of SIP and SDP. Where this is not possible, extensions to SIP and SDP are defined within this document. The document has therefore been structured in order to allow both forms of specification.

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.

This specification may contain references to pre-Release-4 GSM specifications. These references shall be taken to refer to the Release 5 version where that version exists. Conversion from the pre-Release-4 number to the Release 4 (onwards) number is given in subclause 6.1 of 3GPP TR 41.001.

[1] draft-ietf-sip-rfc2543bis-05 (October 2001): "SIP: Session Initiation Protocol".

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

[2] RFC 2976 (October 2000): "The SIP INFO method".

[3] draft-ietf-sip-100rel-04 (September 2001): "Reliability of provisional responses in SIP".

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

[4] draft-ietf-sip-callerprefs-04 (June 2001): "SIP caller preferences and callee capabilities".

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

[5] draft-ietf-sip-refer-02 (October 2001): "The REFER method".

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

[6] draft-ietf-sip-session-timer-07 (October 2001): "The SIP session timer".

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

[7] draft-sip-manyfolks-resource-02 (August 2001): "Integration of resource management and SIP".

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

[8] draft-sip-privacy-02 (May 2001): "SIP extensions for caller identity and privacy".

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

[9] draft-sip-state-02 (August 2001): "SIP extensions for supporting distributed call state".

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

[10] draft-sip-call-auth-02 (August 2001): "SIP extensions for media authorization".

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

[11] draft-ietf-mmusic-sdp-new-03 (January 2002): "SDP: Session Description Protocol".

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

[12] 3GPP TS 23.218: "3rd Generation Partnership Project; Technical Specification Group Core Network; IP Multimedia (IM) Session Handling; IP Multimedia (IM) call model (Release 5)".

[13] 3GPP TS 23.221: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Architectural requirements".

[14] 3GPP TS 23.002: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Network architecture".

[15] 3GPP TS 23.228: "Technical Specification Group Services and System Aspects; IP Multimedia Subsystem (IMS); Stage 2".

[16] RFC 2806: "URLs for Telephone Calls"

[17] RFC 2916: "E.164 number and DNS"

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the [following] terms and definitions [given in ... and the following] apply.

For the purposes of the present document, the following terms and definitions apply.

Header:

Editor's note: To be provided.

Option tag: Option tags are unique identifiers used to designate new options in SIP. These tags are used in Require, Supported and Unsupported header fields.

Editor's note: Text extracted from RFC2543bis, but not specified as a definition.

Private user identity: see 3GPP TS 23.228 [15] clause 4.3.3.1.

Public user identity: see 3GPP TS 23.228 [15] clause 4.3.3.2.

Redirect server: A redirect server is a server that accepts a SIP request, maps the address into zero or more new addresses and returns these addresses to the client. Unlike a proxy server, it does not initiate its own SIP request. Unlike a user agent server, it does not accept calls.

Editor's note: Previous version of this definition was in the bis draft, but has now been removed. Requires further study as to whether there is a more preferred term.

Status code: The Status-Code is a 3-digit integer result code that indicates the outcome of the attempt to understand and satisfy the request.

Editor's note: Text extracted from RFC2543bis, but not specified as a definition.

For the purposes of the present document, the following terms and definitions given in RFC 2543bis [1] (*Editor's note – working title*) apply.

Client
Dialog
Method
Proxy, proxy server
Registrar
Server
Session
(SIP) transaction
Stateful proxy
Stateless proxy
User agent client (UAC)
User agent server (UAS)
User agent (UA)

3.2 Symbols

For the purposes of the present document, the following symbols apply:

Symbol format

<symbol> <Explanation>

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AS	Application Server
BGCF	Breakout Gateway Control Function
c	conditional
CN	Core Network
CSCF	Call Session Control Function
DNS	Domain Name System
FQDN	Fully Qualified Domain Name
i	irrelevant
I-CSCF	Interrogating CSCF
IM	IP Multimedia
IP	Internet Protocol
ISC	IP multimedia Subsystem Service Control
m	mandatory
MGCF	Media Gateway Control Function
MRFC	Media Resource Function Controller
n/a	not applicable
o	optional
P-CSCF	Proxy CSCF
PDU	Protocol Data Unit
RTP	Real-time Transport Protocol'
S-CSCF	Serving CSCF
SDP	Session Description Protocol
SIP	Session Initiation Protocol
UA	User Agent
UE	User Equipment

UAC	User Agent Client
UAS	User Agent Server
URI	Universal Resource Identifier
URL	Universal Resource Locator
x	prohibited

4 General

4.1 Conformance of IM CN subsystem entities to SIP

SIP defines a number of roles which entities can implement in order to support capabilities. These roles are defined in Annex A.

Each IM CN subsystem functional entity using an interface at the Gm reference point, the Mg reference point, the Mi reference point, the Mj reference point, the Mk reference point, the Mm reference point, the Mr reference point and the Mw reference point, and also using the IP multimedia Subsystem Service Control (ISC) Interface, shall implement SIP, as defined by the referenced specifications in Annex A, and in accordance with the constraints and provisions specified in Annex A, according to the following roles.

The Gm reference point, the Mg reference point, the Mi reference point, the Mj reference point, the Mk reference point, the Mm reference point and the Mw reference point are defined in 3GPP TS 23.002 [14]

The Mr reference point is defined in 3GPP TS 23.228 [15]

The ISC interface is defined in 3GPP TS 23.228 [15] clause 4.2.4.

- The User Equipment (UE) may provide either the User Agent (UA) role, or may provide a more complex configuration providing a number of intermediate proxy roles, terminating in a User Agent role, with the exceptions and additional capabilities as described in clause 5.1.
- The P-CSCF shall provide the proxy role, with the exceptions and additional capabilities as described in clause 5.2.

Editor's note: Discussion is still required as to whether the proxy role is appropriate, or whether under some conditions (e.g. session termination) the S-CSCF may become a back-to-back user agent (B2BUA) in which case it provides the User Agent (UA) role. The scope of this decision could range from all the time, to behaviour only under tightly constrained conditions. The cases where this entity does provide the UA role should be defined here, as the reader will need to conform to the UA role tables under these conditions.

It is currently believed that many of the exceptions that tend towards B2BUA functionality for this functional entity are best described as exceptions and additional capabilities to a proxy role, and this is the working basis for the development of the text at this time.

- The I-CSCF shall provide the proxy role, with the exceptions and additional capabilities as described in clause 5.3.
- The S-CSCF shall provide the proxy role, with the exceptions and additional capabilities as described in clause 5.4. The S-CSCF shall provide the user agent role with the additional capabilities as described in clause 5.4. The S-CSCF shall also act as a registrar, with the exceptions and additional capabilities as described in clause 5.4.

Editor's note: Discussion is still required as to whether the proxy role is appropriate, or whether under some conditions (e.g. session termination) the S-CSCF may become a back-to-back user agent (B2BUA). The scope of this decision could range from all the time, to behaviour only under tightly constrained conditions. The cases where this entity does provide the UA role should be defined here, as the reader will need to conform to the UA role tables under these conditions.

Editor's note: The registrar requirement will need to refer to the appropriate Annex A major capability when this has been defined. It should also be noted that when processing the REGISTER method, a registrar looks more like a UA for its functions, e.g. in the interpretation of many headers. Should we define the registrar as a UA for the purposes of processing the REGISTER method, or define exceptions to proxy behaviour in the proxy tables.

- The BGCF shall provided the proxy role, with the exceptions and additional capabilities as described in clause 5.5.
- The MGCF shall provide the User Agent (UA) role, with the exceptions and additional capabilities as described in clause 5.6.
- The AS, acting as terminating UA, or redirect server (as defined in 3GPP TS 23.218 [12]), shall provide the User Agent (UA) role, with the exceptions and additional capabilities as described in clause 5.7.1.
- The AS, acting as originating UA (as defined in 3GPP TS 23.218 [12]), shall provide the User Agent (UA) role, with the exceptions and additional capabilities as described in clause 5.7.2.
- The AS, acting as a SIP proxy (as defined in 3GPP TS 23.218 [12]), shall provided the proxy role, with the exceptions and additional capabilities as described in clause 5.7.3.
- The AS, performing 3rd party call control (as defined in 3GPP TS 23.218 [12]), shall provide the User Agent (UA) role, with the exceptions and additional capabilities as described in clause 5.7.4.
- The MRFC shall provide the User Agent (UA) role, with the exceptions and additional capabilities as described in clause 5.8.

4.2 URL and address assignments

Editor's note: Some text for this clause is included in Annex B.

5 Application usage of SIP

5.1 Procedures at the UE

5.1.1 Registration and authentication

Editor's Note: Normal and Exceptional Procedures might be splitted in sub-sections of the following clauses. This is true for all of the sub-sections

5.1.1.1 General

Editor's note: Some text for this clause is included in Annex B.

5.1.1.2 Initial registration

Editor's note: Some text for this clause is included in Annex B.

5.1.1.3 Initial subscription to the registration-state event package

Editor's note: Some text for this clause is included in Annex B.

5.1.1.4 User-initiated re-registration

Editor's note: Some text for this clause is included in Annex B.

5.1.1.5 Authentication

5.1.1.5.1 General

Editor's note: Some text for this clause is included in Annex B.

5.1.1.5.2 Initial authentication

Editor's note: Some text for this clause is included in Annex B.

5.1.1.5.3 Re-authentication

Editor's note: Some text for this clause is included in Annex B.

5.1.1.5.4 Network-initiated re-authentication

Editor's note: Some text for this clause is included in Annex B.

5.1.1.6 Mobile-initiated deregistration

Editor's note: Some text for this clause is included in Annex B.

5.1.1.7 Network-initiated deregistration

Editor's note: Some text for this clause is included in Annex B.

5.1.2 Subscription and notification

5.1.2.1 Notification about multiple registered public user identities

Editor's note: Some text for this clause is included in Annex B.

Editor's Note: 5.1.2.2 is reserved for subscription and notification to future events

5.1.3 Call initiation - mobile originating case

Editor's Note: A more detailed description of the INVITE responses (183, 180, 200...) might be needed here.

5.1.3.1 Initial INVITE

Editor's note: Some text for this clause is included in Annex B.

5.1.3.2 PRACK

5.1.3.3 COMET

5.1.3.4 Re-INVITE

5.1.4 Call initiation - mobile terminating case

Editor's Note: A more detailed description of the INVITE responses (183, 180, 200...) might be needed here.

5.1.4.1 Initial INVITE

5.1.4.2 PRACK

5.1.4.3 COMET

5.1.4.4 Re-INVITE

5.1.5 Call release

5.1.5.1 MO call release

5.1.5.2 MT call release

5.1.6 Call-related information

5.1.6.1 REFER

5.1.6.2 INFO

5.1.7 Call-independent information

5.1.7.1 OPTIONS

5.2 Procedures at the P-CSCF

5.2.1 General

Editor's note: Some text for this clause is included in Annex B.

5.2.2 Registration

Editor's note: Some text for this clause is included in Annex B.

5.2.3 Subscription to the users registration-state event package

Editor's note: Some text for this clause is included in Annex B.

5.2.4 Registration of multiple public identities

Editor's note: Some text for this clause is included in Annex B.

5.2.5 Deregistration

5.2.5.1 User-initiated deregistration

Editor's note: Some text for this clause is included in Annex B.

5.2.5.2 Network-initiated deregistration

Editor's note: Some text for this clause is included in Annex B.

5.2.6 Subscription and notification

Editors Note: Further discussion is needed if the P-CSCF “looks into” the NOTIFY messages sent to the UE or subscribes itself.

5.2.6.1 Handling of SUBSCRIBE originated by the UE

Editor's note: Some text for this clause is included in Annex B.

5.2.6.2 Handling of SUBSCRIBE destined to the UE

Editor's note: Some text for this clause is included in Annex B.

5.2.6.3 Handling of NOTIFY destined to the UE

Editor's note: Some text for this clause is included in Annex B.

5.2.6.4 Handling of NOTIFY originated by the UE

Editor's note: Some text for this clause is included in Annex B.

5.2.7 Initial INVITE

5.2.7.1 Determination MO or MT case

Editor's Note: It has to be discussed whether this section is needed or if the determination of MO/MT case at the P-CSCF shall be left implementation dependent.

5.2.7.2 Mobile-originating case

Editor's note: Some text for this clause is included in Annex B.

5.2.7.3 Mobile-terminating case

Editor's note: Some text for this clause is included in Annex B.

5.2.8 Call release

5.2.8.1 P-CSCF-initiated call release

5.2.8.2 Call release initiated by any other entity

Editor's note: Some text for this clause is included in Annex B.

5.2.9 Subsequent requests

5.2.9.1 Mobile-originating case

Editor's note: Some text for this clause is included in Annex B.

5.2.9.2 Mobile-terminating case

Editor's note: Some text for this clause is included in Annex B.

5.2.10 Further initial requests

5.2.10.1 Mobile-originating case

Editor's note: Some text for this clause is included in Annex B.

5.2.10.2 Mobile-terminating case

Editor's note: Some text for this clause is included in Annex B.

5.3 Procedures at the I-CSCF

5.3.1 Registration procedure

Editor's note: Some text for this clause is included in Annex B.

5.3.2 Transactions for sessions initiated by the UE

Editor's note: Some text for this clause is included in Annex B.

Editor's note: INVITE requires 3GPP specific handling (HSS query)

Editor's note: Responses follow standard SIP routing (Via)

5.3.3 THIG functionality in the I-CSCF(THIG)

Editor's note: Some text for this clause is included in Annex B.

5.4 Procedures at the S-CSCF

5.4.1 Registration and authentication

5.4.1.1 Introduction

Editor's note: Some text for this clause is included in Annex B.

5.4.1.2 Initial registration and user-initiated reregistration

Editor's note: Some text for this clause is included in Annex B.

5.4.1.3 User-initiated deregistration

Editor's note: Some text for this clause is included in Annex B.

5.4.1.4 Network-initiated deregistration

Editor's note: Some text for this clause is included in Annex B.

5.4.1.5 Network-initiated reauthentication

Editor's note: Some text for this clause is included in Annex B.

5.4.2 Subscription and notification

Editors Note: This should be handled in a generic way

5.4.2.1 Subscriptions to S-CSCF events

5.4.2.1.1 Subscription to the event providing registration state

Editor's note: Some text for this clause is included in Annex B.

5.4.2.1.2 Notification about registration state

Editor's note: Some text for this clause is included in Annex B.

5.4.2.2 Proxy behaviour for SUBSCRIBE / NOTIFY

5.4.3 Call initiation

5.4.3.1 Initial INVITE

5.4.3.1.1 Determination of served user

5.4.3.1.2 Mobile-originating case

Editor's note: Some text for this clause is included in Annex B.

5.4.3.1.3 Mobile-terminating case

Editor's note: Some text for this clause is included in Annex B.

5.4.3.2 Subsequent requests

Editor's Note: PRACK and COMET can be handled in a generic way.

5.4.4 Call release

5.4.4.1 User-initiated call release

5.4.4.2 P-CSCF-initiated call release

Editor's Note: This is a requirement from 23.228 and needs further discussion.

5.4.4.3 S-CSCF-initiated call release

Editor's Note: Application Server initiated Call Release needs further investigation.

5.4.5 Call-related requests

5.4.5.1 Re-INVITE

5.4.5.1.1 Determination of served user

5.4.5.1.2 Mobile-originating case

5.4.5.1.3 Mobile-terminating case

5.4.5.2 REFER

5.4.5.2.1 Mobile-originating case

5.4.5.2.2 Mobile-terminating case

5.4.5.2.3 REFER initiating a new session

5.4.5.2.4 REFER replacing an existing session

5.4.5.3 INFO

Editor's Note: It has to be determined which of these requests can be handled in a generic way.

5.4.6 Further initial requests

Editor's note: Some text for this clause is included in Annex B.

Editor's Note: Generic handling of e.g. OPTIONS should be described here

5.5 Procedures at the MGCF

5.5.1 General

Editor's note: Some text for this clause is included in Annex B.

5.5.2 Subscription and notification

Editors Note: This should be handled in a generic way.

- 5.5.2.1 Subscriptions to MGCF events
- 5.5.2.2 Gateway behaviour for SUBSCRIBE / NOTIFY
- 5.5.3 Call initiation
 - 5.5.3.1 Initial INVITE
 - 5.5.3.1.1 PSTN-originating case
 - 5.5.3.1.2 PSTN-terminating case
 - 5.5.3.2 Subsequent requests

Editor's Note: PRACK and COMET can be handled in a generic way.

5.5.4 Call release

- 5.5.4.1 PSTN-initiated call release
- 5.5.4.2 S-CSCF-initiated call release

5.5.5 Call-related requests

- 5.5.5.1 Re-INVITE
 - 5.5.5.1.1 PSTN-originating case
 - 5.5.5.1.2 PSTN-terminating case
- 5.5.5.2 REFER
 - 5.5.5.2.1 PSTN-originating case
 - 5.5.5.2.2 PSTN-terminating case
 - 5.5.5.2.3 REFER initiating a new session
 - 5.5.5.2.4 REFER replacing an existing session
- 5.5.5.3 INFO

Editor's Note: It has to be determined which of these requests can be handled in a generic way.

5.5.6 Further initial requests

Editor's Note: Generic handling of e.g. OPTIONS should be described here

5.6 Procedures at the BGCF

5.6.1 General

Editor's note: Some text for this clause is included in Annex B.

5.6.2 Session initiation transaction

Editor's note: Some text for this clause is included in Annex B.

5.7 Procedures at the Application Server (AS)

NOTE: This clause defines only the requirements on the application server that relate to SIP. Other requirements are defined in 3GPP TS 23.218.

5.7.1 Application Server (AS) acting as terminating UA, or redirect server

Editor's note: This clause should be structured according to any agreements for the structure for the MGCF.

5.7.2 Application Server (AS) acting as originating UA

Editor's note: This clause should be structured according to any agreements for the structure for the MGCF.

5.7.3 Application Server (AS) acting as a SIP proxy

Editor's note: This clause should be structured according to any agreements for the structure for the BGCF.

5.7.4 Application Server (AS) performing 3rd party call control

Editor's note: This clause should be structured according to any agreements for the structure for the MGCF.

5.8 Procedures at the MRFC

5.8.1 General

5.8.2 Call initiation

5.8.2.1 Initial INVITE

5.8.2.1.1 MRFC-terminating case

5.8.2.1.2 MRFC-originating case

5.8.2.2 Subsequent requests

Editor's Note: PRACK and COMET can be handled in a generic way.

5.8.3 Call release

5.8.3.1 S-CSCF-initiated call release

5.8.3.2 MRFC-initiated call release

5.8.4 Call-related requests

5.8.4.1 Re-INVITE

5.8.4.1.1 MRFC-terminating case

5.8.4.1.2 MRFC-originating case

5.8.4.2 REFER

5.8.4.2.1 MRFC-terminating case

5.8.4.2.2 MRFC-originating case

5.8.4.2.3 REFER initiating a new session

5.8.4.2.4 REFER replacing an existing session

5.8.4.3 INFO

Editor's Note: It has to be determined which of these requests can be handled in a generic way.

5.8.5 Further initial requests

Editor's Note: Generic handling of e.g. OPTIONS should be described here

6 Application usage of SDP

6.1 Procedures at the UE

Editor's note: Some text for this clause is included in Annex B.

6.2 Procedures at the P-CSCF

Editor's note: Some text for this clause is included in Annex B.

6.3 Procedures at the S-CSCF

6.4 Procedures at the MGCF

6.5 Procedures at the MRFC

7 SIP requirements within this specification

7.1 SIP methods defined within this specification

Editor's note: This clause is to be used to document those SIP methods that require complete documentation within this specification, because they are not defined elsewhere in a form that can be endorsed, either with or without modification.

7.2 SIP headers defined within this specification

Editor's note: This clause is to be used to document those SIP headers that require complete documentation within this specification, because they are not defined elsewhere in a form that can be endorsed, either with or without modification.

Editor's note: Some text for this clause is included in Annex B.

7.3 Option tags defined within this specification

Editor's note: This clause is to be used to document those option tags that require complete documentation within this specification, because they are not defined elsewhere in a form that can be endorsed, either with or without modification.

Editor's note: Some text for this clause is included in Annex B.

7.4 Status codes defined within this specification

Editor's note: This clause is to be used to document those status-codes that require complete documentation within this specification, because they are not defined elsewhere in a form that can be endorsed, either with or without modification.

7.5 Session description types defined within this specification

Editor's note: This clause is to be used to document those session description types that require complete documentation within this specification, because they are not defined elsewhere in a form that can be endorsed, either with or without modification.

8 SIP compression

Editor's note: Some text for this clause is included in Annex B.

Annex A (normative): Profiles of IETF RFCs for 3GPP usage

A.1 Profiles

A.1.1 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 2 and 3. 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 A.1.1.

Table A.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 requirements 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.

A.1.2 Roles

Table A.2: Roles

Item	Roles	Reference	RFC status	Profile status
1	User agent		o.1	o.1
2	Proxy		o.1	o.1

o.1: It is mandatory to support exactly one of these items.

NOTE: For the purposes of this specification 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.

A.2 Profile definition for the SIP protocol as used in this specification

A.2.1 User agent role

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

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

A.2.1.1 Major capabilities

Table A.3: Major capabilities

Item	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
1	client behaviour for registration?	[1]	m	m
2	server behaviour for registration?	[1]	n/a	n/a
3	registrar?	[1]	n/a	n/a
4	client behaviour for session requests?	[1]	m	o
5	server behaviour for session requests?	[1]	m	o
6	session release?	[1]	m	c1
7	timestamping of requests?	[1]	o	o
8	authentication between UA and UA?	[1] 22.4	o	o
9	authentication between UA and registrar?	[1] 22.4	o	n/a
10	insertion of date in requests and responses?	[1] 22.1722.17	o	o
11	downloading of alerting information?	[1] 22.422.4	o	o
	Extensions			
12	The SIP INFO method?	[2]	o	n/a
13	Reliability of provisional responses in SIP?	[3]	o	m
14	SIP caller preferences and callee capabilities?	[4]	o	o
15	the REFER method?	[5]	o	o
16	The SIP session timer?	[6]	o	o
17	Integration of resource management and SIP?	[7]	o	m
18	SIP extensions for caller identity and privacy?	[8]	o	m
19	SIP extensions for supporting distributed call state?	[9]	o	o
20	SIP extensions for media authorization?	[10]	o	m

c1: IF A.3/4 OR A.3/5 THEN m ELSE o

A.2.1.2 PDUs

Table A.4: Supported methods

Item	PDU	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	ACK request	[1] 13	m	m	[1] 13	m	m
2	BYE request	[1] 15.1	o		[1] 15.1	o	
3	BYE response	[1] 15.1	o		[1] 15.1	o	
4	CANCEL request	[1] 16.8	o		[1] 16.8	o	
5	CANCEL response	[1] 16.8	o		[1] 16.8	o	
6	COMET request	[7] 5	o		[7] 5	o	
7	COMET response	[7] 5	o		[7] 5	o	
8	INFO request	[2] 2	c2	n/a	[2] 2	c2	n/a
9	INFO response	[2] 2	c2	n/a	[2] 2	c2	n/a
10	INVITE request	[1] 13	m	m	[1] 13	m	m
11	INVITE response	[1] 13	m	m	[1] 13	m	m
12	OPTIONS request	[1] 11	m	m	[1] 11	m	m
13	OPTIONS response	[1] 11	m	m	[1] 11	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	c1	c1	[5] 3	c1	c1
17	REFER response	[5] 3	c1	c1	[5] 3	c1	c1
18	REGISTER request	[1] 10	o		[1] 10	n/a	
19	REGISTER response	[1] 10	n/a		[1] 10	m	

c2: IF A.3/12 THEN m ELSE n/a

c1: IF A.3/15 THEN m ELSE n/a

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.

A.2.1.3 PDU parameters

A.2.1.3.1 Status codes

Table A.5: Supported status codes within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	"100" Trying	[1] 23.1.1	n/a	n/a	[1] 23.1.1	m	m
2	"180" Ringing	[1] 23.1.2	c2	c2	[1] 23.1.2	c1	c1
3	"181" Call Is Being Forwarded	[1] 23.1.3	c2	c2	[1] 23.1.3	c1	c1
4	"182" Queued	[1] 23.1.4	c2	c2	[1] 23.1.4	c1	c1
5	"183" Session Progress	[1] 23.1.5	c1	c1	[1] 23.1.5	c1	c1
6	"200" OK						
7	"300" Multiple Choices						
8	"301" Moved Permanently						
9	"302" Moved Temporarily						
10	"305" Use Proxy						
11	"380" Alternative Service						
12	"400" Bad Request						
13	"401" Unauthorized						
14	"402" Payment Required						
15	"403" Forbidden						
16	"404" Not Found						
17	"405" Method Not Allowed						
18	"406" Not Acceptable						
19	"407" Proxy Authentication Required						
20	"408" Request Timeout						
21	"409" Conflict						
22	"410" Gone						
23	"411" Length Required						
24	"413" Request Entity Too Large						
25	"414" Request-URI Too Large						
26	"415" Unsupported Media Type						
27	"420" Bad Extension						
28	"421" Extension Required"						
29	"480" Temporarily not available						
30	"481" Call Leg/Transaction Does Not Exist						
31	"482" Loop Detected						
32	"483" Too Many Hops						
33	"484" Address Incomplete						
34	"485" Ambiguous						
35	"486" Busy Here						
36	"487" Request Cancelled						
37	"488" Not Acceptable Here						
38	"500" Internal Server Error						
39	"501" Not Implemented						
40	"502" Bad Gateway						
41	"503" Service Unavailable						
42	"504" Gateway Time-out						
43	"505" SIP Version not supported						
44	"580" Precondition Failure						
45	"600" Busy Everywhere						
46	"603" Decline						
47	"604" Does not exist anywhere						
48	"606" Not Acceptable						

c1: IF A.4/11 THEN m ELSE n/a

c2: IF A.4/11 THEN o ELSE n/a

A.2.1.3.2 ACK method

Prerequisite A.4/1 – ACK request

Table A.6: Supported headers within the ACK request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	o		[1] 22.5	o	
2	Authorization	[1] 22.7	c1	c1	[1] 22.7	c1	c1
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
16	Proxy-Require	[1] 22.28	o	n/a	[1] 22.28	n/a	n/a
17	Record-Route	[1] 22.29	o	o	[1] 22.29	m	m
18	Referred-By	[5] 3.3	c3	c3	[5] 3.3	c4	c4
19	Require	[1] 22.30	o		[1] 22.30	o	
20	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
21	State	[9] 5.1	o		[9] 5.1	o	
22	Timestamp	[1] 22.36	c5	c5	[1] 22.36	m	m
23	To	[1] 22.37	m	m	[1] 22.37	m	m
24	User-Agent	[1] 22.39	o		[1] 22.39	o	
25	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/8 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/15 THEN o ELSE n/a

c4: IF A.3/15 THEN m ELSE n/a

c5: IF A.3/7 THEN o ELSE n/a

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

Table A.7: Supported message bodies within the ACK request

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

A.2.1.3.3 BYE method

Prerequisite A.4/2 – BYE request

Table 7.8: Supported headers within the BYE request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	c1	c1	[1] 22.7	c1	c1
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
18	Proxy-Require	[1] 22.28	o	n/a	[1] 22.28, [9] 3	n/a	n/a
19	Record-Route	[1] 22.29	o		[1] 22.29	o	
20	Referred-By	[5] 3.3	c3	c3	[5] 3.3	c4	c4
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
24	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
25	State	[9] 5.1	o		[9] 5.1	o	
26	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
27	Timestamp	[1] 22.36	c5	c5	[1] 22.36	m	m
28	To	[1] 22.37	m	m	[1] 22.37	m	m
29	User-Agent	[1] 22.39	o		[1] 22.39	o	
30	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/8 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/15 THEN o ELSE n/a

c4: IF A.3/15 THEN m ELSE n/a

c5: IF A.3/7 THEN o ELSE n/a

Table A.9: Supported message bodies within the BYE request

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

Prerequisite A.4/3 – BYE response

Prerequisite A.5/26 -- "415" Unsupported Media Type

Table A.10: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.11: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Require		o			o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous"

Table A.12: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Require		o			o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 – 401

Table A.13: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
13	Record-Route	[1] 22.29	o		[1] 22.29	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	
23	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 – 407

Table A.14: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
13	Require		o			o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/6 – 2xx

Table A.15: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Record-Route	[1] 22.29	o		[1] 22.29	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN o ELSE n/a

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/33 – 484

Table A.16: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Record-Route	[1] 22.29	o		[1] 22.29	o	
13	Require		o			o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN o ELSE n/a

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/1 – 100 Trying

Table A.17: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
2	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
3	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
4	Date	[1] 22.17	n/a	n/a	[1] 22.17	m	m
5	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
6	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
7	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/27 – 420

Table A.18: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Require		o			o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	Unsupported	[1] 22.38	o		[1] 22.38	o	
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/3 – BYE response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.19: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Require		o			o	
13	Retry-After	[1] 22.31	o		[1] 22.31	o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Table A.20: Supported message bodies within the BYE response

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

A.2.1.3.4 CANCEL method

Prerequisite A.4/4 – CANCEL request

Table A.21: Supported headers within the CANCEL request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	c1	c1	[1] 22.7	c1	c1
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
15	Proxy-Require	[1] 22.28	o	n/a	[1] 22.28, [9] 3	n/a	n/a
16	Record-Route	[1] 22.29	o		[1] 22.29	o	
17	Referred-By	[5] 3.3	c3	c3	[5] 3.3	c4	c4
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
21	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
22	State	[9] 5.1	o		[9] 5.1	o	
23	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
24	Timestamp	[1] 22.36	c5	c5	[1] 22.36	m	m
25	To	[1] 22.37	m	m	[1] 22.37	m	m
26	User-Agent	[1] 22.39	o		[1] 22.39	o	
27	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/8 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/15 THEN o ELSE n/a

c4: IF A.3/15 THEN m ELSE n/a

c5: IF A.3/7 THEN o ELSE n/a

Table A.22: Supported message bodies within the CANCEL request

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

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/26 -- "415" Unsupported Media Type

Table A.23: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	From	[1] 22.20	m	m	[1] 22.20	m	m
10	MIME-Version	[1] 22.23	o		[1] 22.23	o	
11	Require		o			o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.24: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5, [1] 5.1	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Language	[1] 22.13	o		[1] 22.13	o	
4	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
7	From	[1] 22.20	m	m	[1] 22.20	m	m
8	MIME-Version	[1] 22.23	o		[1] 22.23	o	
9	Require		o			o	
10	State	[9] 5.1	o		[9] 5.1	o	
11	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
12	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
13	To	[1] 22.37	m	m	[1] 22.37	m	m
14	User-Agent	[1] 22.39	o		[1] 22.39	o	
15	Via	[1] 22.40	m	m	[1] 22.40	m	m
16	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous" @@@ combine in others

Table A.25: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Require		o			o	
9	State	[9] 5.1	o		[9] 5.1	o	
10	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
11	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
12	To	[1] 22.37	m	m	[1] 22.37	m	m
13	User-Agent	[1] 22.39	o		[1] 22.39	o	
14	Via	[1] 22.40	m	m	[1] 22.40	m	m
15	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 – 401

Table A.26: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
9	Record-Route	[1] 22.29	o		[1] 22.29	o	
10	Require		o			o	
11	State	[9] 5.1	o		[9] 5.1	o	
12	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
13	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
14	To	[1] 22.37	m	m	[1] 22.37	m	m
15	User-Agent	[1] 22.39	o		[1] 22.39	o	
16	Via	[1] 22.40	m	m	[1] 22.40	m	m
17	Warning	[1] 22.41	o		[1] 22.41	o	
18	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 – 3xx @@@ Combine with common

Table A.27: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Require		o			o	
9	State	[9] 5.1	o		[9] 5.1	o	
10	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
11	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
12	To	[1] 22.37	m	m	[1] 22.37	m	m
13	User-Agent	[1] 22.39	o		[1] 22.39	o	
14	Via	[1] 22.40	m	m	[1] 22.40	m	m
15	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/6 OR A.5/33 – 2xx, 484

Table A.28: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Record-Route	[1] 22.29	o		[1] 22.29	o	
9	Require		o			o	
10	State	[9] 5.1	o		[9] 5.1	o	
11	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
12	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
13	To	[1] 22.37	m	m	[1] 22.37	m	m
14	User-Agent	[1] 22.39	o		[1] 22.39	o	
15	Via	[1] 22.40	m	m	[1] 22.40	m	m
16	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/1 – 100 Trying

Table A.29: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
2	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
3	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
4	Date	[1] 22.17	n/a	n/a	[1] 22.17	m	m
5	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
6	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
7	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/27 – 420

Table A.30: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Require		o			o	
9	State	[9] 5.1	o		[9] 5.1	o	
10	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
11	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
12	To	[1] 22.37	m	m	[1] 22.37	m	m
13	Unsupported	[1] 22.38	o		[1] 22.38	o	
14	User-Agent	[1] 22.39	o		[1] 22.39	o	
15	Via	[1] 22.40	m	m	[1] 22.40	m	m
16	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/5 – CANCEL response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.31: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Require		o			o	
9	State	[9] 5.1	o		[9] 5.1	o	
10	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
11	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
12	To	[1] 22.37	m	m	[1] 22.37	m	m
13	User-Agent	[1] 22.39	o		[1] 22.39	o	
14	Via	[1] 22.40	m	m	[1] 22.40	m	m
15	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Table A.32: Supported message bodies within the CANCEL response

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

A.2.1.3.5 COMET method

Prerequisite A.4/6 – COMET request

Table A.33: Supported headers within the COMET request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	c1	c1	[1] 22.7	c1	c1
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Contact	[1] 22.10	o		[1] 22.10	o	
8	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
9	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
10	Content-Language	[1] 22.13	o		[1] 22.13	o	
11	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
12	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
13	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
14	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
15	Expires	[1] 22.19	o		[1] 22.19	o	
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Organization	[1] 22.24	o		[1] 22.24	o	
20	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
21	Proxy-Require	[1] 22.28	o	n/a	[1] 22.28, [9] 3	n/a	n/a
22	Record-Route	[1] 22.29	o		[1] 22.29	o	
23	Referred-By	[5] 3.3	c3	c3	[5] 3.3	c4	c4
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
27	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
28	State	[9] 5.1	o		[9] 5.1	o	
29	Subject	[1] 22.34	o		[1] 22.34	o	
30	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
31	Timestamp	[1] 22.36	c5	c5	[1] 22.36	m	m
32	To	[1] 22.37	m	m	[1] 22.37	m	m
33	User-Agent	[1] 22.39	o		[1] 22.39	o	
34	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/8 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/15 THEN o ELSE n/a

c4: IF A.3/15 THEN m ELSE n/a

c5: IF A.3/7 THEN o ELSE n/a

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 A.34: Supported message bodies within the COMET request

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

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/26 -- "415" Unsupported Media Type

Table A.35: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Organization	[1] 22.24	o		[1] 22.24	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.36: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous"

Table A.37: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 – 3xx

Table A.38: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/19 – 407

Table A.39: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
24	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
25	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
26	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
27	Content-Language	[1] 22.13	o		[1] 22.13	o	
28	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
29	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
30	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
31	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
32	Error-Info	[1] 22.18	o		[1] 22.18	o	
33	Expires	[1] 22.19	o		[1] 22.19	o	
34	From	[1] 22.20	m	m	[1] 22.20	m	m
35	MIME-Version	[1] 22.23	o		[1] 22.23	o	
36	Organization	[1] 22.24	o		[1] 22.24	o	
37	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
38	Require		o			o	
39	Server	[1] 22.33	o		[1] 22.33	o	
40	State	[9] 5.1	o		[9] 5.1	o	
41	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
42	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
43	To	[1] 22.37	m	m	[1] 22.37	m	m
44	User-Agent	[1] 22.39	o		[1] 22.39	o	
45	Via	[1] 22.40	m	m	[1] 22.40	m	m
46	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/6 – 2xx

Table A.40: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Record-Route	[1] 22.29	o		[1] 22.29	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/1– 100 Trying

Table A.41: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
2	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
3	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
4	Date	[1] 22.17	n/a	n/a	[1] 22.17	m	m
5	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
6	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
7	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/27 – 420

Table A.42: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	Unsupported	[1] 22.38	o		[1] 22.38	o	
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/7 – COMET response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 480, 486, 500, 503, 600, 603

Table A.43: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Retry-After	[1] 22.31 22.31	o		[1] 22.31	o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

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 A.44: Supported message bodies within the COMET response

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

A.2.1.3.6 INFO method

Prerequisite A.4/8 – INFO request

Table A.45: Supported headers within the INFO request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	c1	c1	[1] 22.7	c1	c1
6	Call-ID	[1] 22.8	m		[1] 22.8	m	
7	Contact	[1] 22.10	o		[1] 22.10	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
16	Organization	[1] 22.24	o		[1] 22.24	o	
17	Priority	[1] 22.25	o	o	[1] 22.25	o	o
18	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
19	Proxy-Require	[1] 22.28	o	n/a	[1] 22.28, [9] 3	n/a	n/a
20	Record-Route	[1] 22.29	o		[1] 22.29	o	
21	Referred-By	[5] 3.3	c3	c3	[5] 3.3	c4	c4
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
25	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
26	State	[9] 5.1	o		[9] 5.1	o	
27	Subject	[1] 22.34	o		[1] 22.34	o	
28	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
29	Timestamp	[1] 22.36	c5	c5	[1] 22.36	m	m
30	To	[1] 22.37	m	m	[1] 22.37	m	m
31	User-Agent	[1] 22.39	o		[1] 22.39	o	
32	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/8 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/15 THEN o ELSE n/a

c4: IF A.3/15 THEN m ELSE n/a

c5: IF A.3/7 THEN o ELSE n/a

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 A.46: Supported message bodies within the INFO request

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

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/26 -- "415" Unsupported Media Type @@@ combine

Table A.47: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.48: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
5	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
6	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
7	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
8	Expires	[1] 22.19	o		[1] 22.19	o	
9	From	[1] 22.20	m	m	[1] 22.20	m	m
10	Organization	[1] 22.24	o		[1] 22.24	o	
11	Require		o			o	
12	Server	[1] 22.33	o		[1] 22.33	o	
13	State	[9] 5.1	o		[9] 5.1	o	
14	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
15	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
16	To	[1] 22.37	m	m	[1] 22.37	m	m
17	User-Agent	[1] 22.39	o		[1] 22.39	o	
18	Via	[1] 22.40	m	m	[1] 22.40	m	m
19	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous" @@@ combine

Table A.49: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/13 – 401

Table A.50: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	
19	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 – 3xx

Table A.51: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/6 OR A.5/33 – 2xx, 484 @@@combine

Table A.52: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m (200 and 405 only)		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
5	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
6	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
7	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
8	Expires	[1] 22.19	o		[1] 22.19	o	
9	From	[1] 22.20	m	m	[1] 22.20	m	m
10	Organization	[1] 22.24	o		[1] 22.24	o	
11	Proxy-Authenticate	[1] 22.26	o (407 only)		[1] 22.26	o	
12	Record-Route	[1] 22.29	o (2xx only)		[1] 22.29	o	
13	Require		o			o	
14	Retry-After	[1] 22.31	o (404, 480, 486, 503, 600, 603 only)		[1] 22.31	o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	Unsupported	[1] 22.38	o (420 only)		[1] 22.38	o	
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	
24	WWW-Authenticate	[1] 22.42	o (401 only)		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/1 – 100 Trying

Table A.53: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 10.8	n/a	n/a	[1] 10.8	m	m
2	Content-Length	[1] 10.14	n/a	n/a	[1] 10.14	m	m
3	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
4	Date	[1] 10.17	n/a	n/a	[1] 10.17	m	m
5	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
6	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
7	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/27 – 420

Table A.54: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 10.8	m	m	[1] 10.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 10.14	m	m	[1] 10.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 10.17	c1	c1	[1] 10.17	m	m
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	Unsupported	[1] 22.38	o		[1] 22.38	o	
17	User-Agent	[1] 22.39	o		[1] 22.39	o	
18	Via	[1] 22.40	m	m	[1] 22.40	m	m
19	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/9 – INFO response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.55: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 10.8	m	m	[1] 10.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 10.14	m	m	[1] 10.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 10.17	c1	c1	[1] 10.17	m	m
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Retry-After	[1] 22.31	o		[1] 22.31	o	
12	Server	[1] 22.33	o		[1] 22.33	o	
13	State	[9] 5.1	o		[9] 5.1	o	
14	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
15	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
16	To	[1] 22.37	m	m	[1] 22.37	m	m
17	User-Agent	[1] 22.39	o		[1] 22.39	o	
18	Via	[1] 22.40	m	m	[1] 22.40	m	m
19	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

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 A.56: Supported message bodies within the INFO response

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

A.2.1.3.7 INVITE method

Prerequisite A.4/10 – INVITE request

Table A.57: Supported headers within the INVITE request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Alert-Info	[1] 22.4	o	o	[1] 22.4	c1	c1
6	Allow	[1] 22.5, [1] 5.1	o		[1] 22.5, [1] 5.1	o	
7	Anonymity	[8] 5.2	o		[8] 5.2		
8	Authorization	[1] 22.7	c2	c2	[1] 22.7	c2	c2
9	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
10	Call-Info	[1] 22.9	o		[1] 22.9	o	
11	Contact	[1] 22.10	m		[1] 22.10	m	
12	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
13	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
14	Content-Language	[1] 22.13	o		[1] 22.13	o	
15	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
16	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
17	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
18	Date	[1] 22.17	c3	c3	[1] 22.17	m	m
19	Expires	[1] 22.19	o		[1] 22.19	o	
20	From	[1] 22.20	m	m	[1] 22.20	m	m
21	In-Reply-To	[1] 22.21	o	o	[1] 22.21	o	o
22	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
23	MIME-Version	[1] 22.23	o		[1] 22.23	o	
24	Organization	[1] 22.24	o		[1] 22.24	o	
25	Priority	[1] 22.25	o	o	[1] 22.25	o	o
26	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
27	Proxy-Require	[1] 22.28, [6] 4, [8] 4	c4	c4	[1] 22.28, [6] 4, [8] 4, [9] 3	n/a	n/a
28	Record-Route	[1] 22.29	o		[1] 22.29	o	
29	Referred-By	[5] 3.3	c5	c5	[5] 3.3	c6	c6
30	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
31	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
32	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
33	Require	[1] 22.30, [6] 4, [9] 3	o		[1] 22.30, [6] 4, [9] 3	o	
34	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
35	Session expires	[6] 3	o		[6] 3	o	
36	State	[9] 5.1	o		[9] 5.1	o	
37	Subject	[1] 22.34	o		[1] 22.34	o	
38	Supported	[1] 22.35, [1] 5.1, [6] 5, [9] 3	o		[1] 22.35, [1] 5.1, [6] 5, [9] 3	o	
39	Timestamp	[1] 22.36	c7	c7	[1] 22.36	m	m
40	To	[1] 22.37	m	m	[1] 22.37	m	m
41	User-Agent	[1] 22.39	o		[1] 22.39	o	
42	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/11 THEN m ELSE n/a

c2: IF A.3/8 THEN m ELSE n/a

c3: IF A.3/10 THEN o ELSE n/a

c4: IF A.3/18 THEN m ELSE o -- (NOTE)

c5: IF A.3/15 THEN o ELSE n/a

c6: IF A.3/15 THEN m ELSE n/a

c7: IF A.3/7 THEN o ELSE n/a

NOTE: No distinction has been made in these tables between first use of a request on a From/To/Call-ID combination, and the usage in a subsequent one. Therefore the use of "o" etc. above has been included from a viewpoint of first usage.

Table A.58: Supported message bodies within the INVITE request

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

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/26 -- "415" Unsupported Media Type

Table A.59: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Anonymity	[8] 5.2	o		[8] 5.2		
5	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
6	Call-Info	[1] 22.9	o		[1] 22.9	o	
7	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
14	Error-Info	[1] 22.18	o		[1] 22.18	o	
15	Expires	[1] 22.19	o		[1] 22.19	o	
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Organization	[1] 22.24	o		[1] 22.24	o	
20	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
21	Require	[6] 5.2	o		[6] 5.2	o	
22	Server	[1] 22.33	o		[1] 22.33	o	
23	Session expires	[6] 3	o		[6] 3	o	
24	State	[9] 5.1	o		[9] 5.1	o	
25	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
26	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
27	To	[1] 22.37	m	m	[1] 22.37	m	m
28	User-Agent	[1] 22.39	o		[1] 22.39	o	
29	Via	[1] 22.40	m	m	[1] 22.40	m	m
30	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.60: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	m		[1] 22.5	m/o	
3	Anonymity	[8] 5.2	o		[8] 5.2	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	Expires	[1] 22.19	o		[1] 22.19	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
17	MIME-Version	[1] 22.23	o		[1] 22.23	o	
18	Organization	[1] 22.24	o		[1] 22.24	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous"

Table A.61: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Contact	[1] 22.10	o		[1] 22.10	o/m	
6	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	Expires	[1] 22.19	o		[1] 22.19	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
17	MIME-Version	[1] 22.23	o		[1] 22.23	o	
18	Organization	[1] 22.24	o		[1] 22.24	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/13 – 401

Table A.62: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
19	Record-Route	[1] 22.29	o		[1] 22.29	o	
20	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
21	Require	[6] 5.2	o		[6] 5.2	o	
22	Server	[1] 22.33	o		[1] 22.33	o	
23	Session expires	[6] 3	o		[6] 3	o	
24	State	[9] 5.1	o		[9] 5.1	o	
25	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
26	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
27	To	[1] 22.37	m	m	[1] 22.37	m	m
28	User-Agent	[1] 22.39	o		[1] 22.39	o	
29	Via	[1] 22.40	m	m	[1] 22.40	m	m
30	Warning	[1] 22.41	o		[1] 22.41	o	
31	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/19 – 407

Table A.63: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/6 – 2xx

Table A.64: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	o		[1] 22.5	o	
3	Anonymity	[8] 5.2	o		[8] 5.2		
4	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
5	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
6	Call-Info	[1] 22.9	o		[1] 22.9	o	
7	Contact	[1] 22.10	m		[1] 22.10	m	
8	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
9	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
10	Content-Language	[1] 22.13	o		[1] 22.13	o	
11	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
12	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
13	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
14	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
15	Error-Info	[1] 22.18	o		[1] 22.18	o	
16	Expires	[1] 22.19	o		[1] 22.19	o	
17	From	[1] 22.20	m	m	[1] 22.20	m	m
18	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
19	MIME-Version	[1] 22.23	o		[1] 22.23	o	
20	Organization	[1] 22.24	o		[1] 22.24	o	
21	Record-Route	[1] 22.29	o		[1] 22.29	o	
22	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
23	Require	[6] 5.2	o		[6] 5.2	o	
24	Server	[1] 22.33	o		[1] 22.33	o	
25	Session expires	[6] 3	o		[6] 3	o	
26	State	[9] 5.1	o		[9] 5.1	o	
27	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
28	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
29	To	[1] 22.37	m	m	[1] 22.37	m	m
30	User-Agent	[1] 22.39	o		[1] 22.39	o	
31	Via	[1] 22.40	m	m	[1] 22.40	m	m
32	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/33 – 484

Table A.65: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Record-Route	[1] 22.29	o		[1] 22.29	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – BYE response

Prerequisite: A.5/1 – 100 Trying

Table A.66: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
2	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
6	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
8	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
12	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
20	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
22	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/2 OR A.5/3 OR A.5/4 OR A.5/5 – 1xx

Table A.67: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Contact	[1] 22.10	o		[1] 22.10	o/m	
6	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	Expires	[1] 22.19	o		[1] 22.19	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
17	MIME-Version	[1] 22.23	o		[1] 22.23	o	
18	Organization	[1] 22.24	o		[1] 22.24	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Rseq	[3] 5.1	o		[3] 5.2		
22	Server	[1] 22.33	o		[1] 22.33	o	
23	Session expires	[6] 3	o		[6] 3	o	
24	State	[9] 5.1	o		[9] 5.1	o	
25	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
26	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
27	To	[1] 22.37	m	m	[1] 22.37	m	m
28	User-Agent	[1] 22.39	o		[1] 22.39	o	
29	Via	[1] 22.40	m	m	[1] 22.40	m	m
30	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/27 – 420

Table A.68: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
19	Require	[6] 5.2	o		[6] 5.2	o	
20	Server	[1] 22.33	o		[1] 22.33	o	
21	Session expires	[6] 3	o		[6] 3	o	
22	State	[9] 5.1	o		[9] 5.1	o	
23	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
24	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
25	To	[1] 22.37	m	m	[1] 22.37	m	m
26	Unsupported	[1] 22.38	o		[1] 22.38	o	
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/11 – INVITE response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.69: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
19	Require	[6] 5.2	o		[6] 5.2	o	
20	Retry-After	[1] 22.31	o		[1] 22.31	n/a	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Table A.70: Supported message bodies within the INVITE response

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

A.2.1.3.8 OPTIONS method

Prerequisite A.4/12 – OPTIONS request

Table A.71: Supported headers within the OPTIONS request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	c1	c1	[1] 22.7	c1	c1
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Call-Info	[1] 22.9	o		[1] 22.9	o	
8	Contact	[1] 22.10	m		[1] 22.10	m	
9	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
10	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
11	Content-Language	[1] 22.13	o		[1] 22.13	o	
12	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
13	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
14	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
15	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Organization	[1] 22.24	o		[1] 22.24	o	
20	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
21	Proxy-Require	[1] 22.28	o	o (NOTE)	[1] 22.28, [9] 3	n/a	n/a
22	Record-Route	[1] 22.29	o		[1] 22.29	o	
23	Referred-By	[5] 3.3	c3	c3	[5] 3.3	c4	c4
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
27	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
28	State	[9] 5.1	o		[9] 5.1	o	
29	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
30	Timestamp	[1] 22.36	c5	c5	[1] 22.36	m	m
31	To	[1] 22.37	m	m	[1] 22.37	m	m
32	User-Agent	[1] 22.39	o		[1] 22.39	o	
33	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/8 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/15 THEN o ELSE n/a

c4: IF A.3/15 THEN m ELSE n/a

c5: IF A.3/7 THEN o ELSE n/a

NOTE: No distinction has been made in these tables between first use of a request on a From/To/Call-ID combination, and the usage in a subsequent one. Therefore the use of "o" etc. above has been included from a viewpoint of first usage.

Table A.72: Supported message bodies within the OPTIONS request

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

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/26 -- "415" Unsupported Media Type

Table A.73: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Organization	[1] 22.24	o		[1] 22.24	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF 0.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.74: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	m	m	[1] 22.5	m	m
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous"

Table A.75: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/13 – 401

Table A.76: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	
25	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/19 – 407

Table A.77: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/6 – 2xx

Table A.78: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	o		[1] 22.5	o/m	
3	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Contact	[1] 22.10	o		[1] 22.10	o	
7	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
14	Error-Info	[1] 22.18	o		[1] 22.18	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Record-Route	[1] 22.29	o		[1] 22.29	o	
19	Require		o			o	
20	Server	[1] 22.33	o		[1] 22.33	o	
21	State	[9] 5.1	o		[9] 5.1	o	
22	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
23	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
24	To	[1] 22.37	m	m	[1] 22.37	m	m
25	User-Agent	[1] 22.39	o		[1] 22.39	o	
26	Via	[1] 22.40	m	m	[1] 22.40	m	m
27	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/33 – 484

Table A.79: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	Record-Route	[1] 22.29	o		[1] 22.29	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/1 – 100 Trying

Table A.80: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
2	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
3	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
4	Date	[1] 22.17	n/a	n/a	[1] 22.17	m	m
5	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
6	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
7	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/27 – 420

Table A.81: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	Unsupported	[1] 22.38	o		[1] 22.38	o	
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/13 – OPTIONS response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.82: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Retry-After	[1] 22.31	o		[1] 22.31	n/a	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Table A.83: Supported message bodies within the OPTIONS response

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

A.2.3.3.9 PRACK method

Prerequisite A.4/14 – PRACK request

Table A.84: Supported headers within the PRACK request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	c1	c1	[1] 22.7	c1	c1
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
18	Proxy-Require	[1] 22.28	o	n/a	[1] 22.28, [9] 3	n/a	n/a
19	RAck	[3] 5.1	m		[3] 5.1	m	
20	Record-Route	[1] 22.29	o		[1] 22.29	o	
21	Referred-By	[5] 3.3	c3	c3	[5] 3.3	c4	c4
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
25	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
26	State	[9] 5.1	o		[9] 5.1	o	
27	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
28	Timestamp	[1] 22.36	c5	c5	[1] 22.36	m	m
29	To	[1] 22.37	m	m	[1] 22.37	m	m
30	User-Agent	[1] 22.39	o		[1] 22.39	o	
31	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/8 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/15 THEN o ELSE n/a

c4: IF A.3/15 THEN m ELSE n/a

c5: IF A.3/7 THEN o ELSE n/a

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.

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.

Editor's note: No account has been taken of the requirement in the 100 rel draft to reflect in a PRACK request the timestamp received in a previous response. Further information is needed on the handling of this requirement within IETF.

Table A.85: Supported message bodies within the PRACK request

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

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/26 -- "415" Unsupported Media Type

Table A.86: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.87: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous"

Table A.88: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/13 – 401

Table A.89: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
13	Record-Route	[1] 22.29	o		[1] 22.29	o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	
22	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/19 – 407

Table A.90: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/6 OR A.5/33 – 2xx, 484

Table A.91: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Record-Route	[1] 22.29	o		[1] 22.29	o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/1 – 100 Trying

Table A.92: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
2	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
3	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
4	Date	[1] 22.17	n/a	n/a	[1] 22.17	m	m
5	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
6	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
7	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/27 – 420@@@combine

Table A.93: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Server	[1] 22.33	o		[1] 22.33	o	
13	State	[9] 5.1	o		[9] 5.1	o	
14	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
15	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
16	To	[1] 22.37	m	m	[1] 22.37	m	m
17	User-Agent	[1] 22.39	o		[1] 22.39	o	
18	Via	[1] 22.40	m	m	[1] 22.40	m	m
19	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/15 – PRACK response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.94: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Retry-After	[1] 22.31	o		[1] 22.31	n/a	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

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 A.95: Supported message bodies within the PRACK response

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

A.2.1.3.10 REFER method

Prerequisite A.4/16 – REFER request

Table A.96: 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] 22.3	o		[1] 22.3	o	
3	Authorization	[1] 22.7	c1	c1	[1] 22.7	c1	c1
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Contact	[1] 22.10	o		[1] 22.10	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
16	Proxy-Require	[1] 22.28	o	n/a	[1] 22.28, [9] 3	n/a	n/a
17	Record-Route	[1] 22.29	o		[1] 22.29	o	
18	Refer-To	[5] 3.3	m	m	[5] 3.3	m	m
19	Referred-By	[5] 3.3	m	m	[5] 3.3	m	m
20	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
21	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
22	Require	[1] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
23	Route	[1] 22.32	m	m	[1] 22.32	n/a	n/a
24	State	[9] 5.1	o		[9] 5.1	o	
25	Supported	[1] 22.35, [1] 13, [6] 5, [9] 3	o		[1] 22.35, [1] 13, [6] 5, [9] 3	o	
26	Timestamp	[1] 22.36	c3	c3	[1] 22.36	m	m
27	To	[1] 22.37	m	m	[1] 22.37	m	m
28	User-Agent	[1] 22.39	o		[1] 22.39	o	
29	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/8 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/7 THEN o ELSE n/a

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 A.97: Supported message bodies within the REFER request

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

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/26 -- "415" Unsupported Media Type

Table A.98: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.99: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	m	m	[1] 22.5	m	m
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous"@@@combine

Table A.100: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Contact	[1] 22.10	o		[1] 22.10	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 – 401

Table A.101: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Expires	[1] 22.19	o		[1] 22.19	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Organization	[1] 22.24	o		[1] 22.24	o	
13	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	
23	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/19 – 407

Table A.102: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
9	Expires	[1] 22.19	o		[1] 22.19	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Organization	[1] 22.24	o		[1] 22.24	o	
13	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/6 – 2xx

Table A.103: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Record-Route	[1] 22.29	o		[1] 22.29	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/33 – 484@@@combine

Table A.104: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Contact	[1] 22.10	o		[1] 22.10	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/1 – 100 Trying

Table A.105: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
2	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
3	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
4	Date	[1] 22.17	n/a	n/a	[1] 22.17	m	m
5	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
6	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
7	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/27 – 420

Table A.106: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Contact	[1] 22.10	o		[1] 22.10	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	Unsupported	[1] 22.38	o		[1] 22.38	o	
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/17 – REFER response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.107: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Contact	[1] 22.10	o		[1] 22.10	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Retry-After	[1] 22.31	o		[1] 22.31	o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

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 A.108: Supported message bodies within the REFER response

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

A.2.1.3.11 REGISTER method

Prerequisite A.4/18 – REGISTER request

Table A.109: Supported headers within the REGISTER request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Authorization	[1] 22.7	c1	n/a	[1] 22.7	c1	n/a
5	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
6	Call-Info	[1] 22.9	o		[1] 22.9	o	
7	Contact	[1] 22.10	m		[1] 22.10	m	
8	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
9	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
10	Content-Language	[1] 22.13	o		[1] 22.13	o	
11	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
12	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
13	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
14	Date	[1] 22.17	c2	c2	[1] 22.17	m	m
15	Expires	[1] 22.19	o		[1] 22.19	o	
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Organization	[1] 22.24	o		[1] 22.24	o	
20	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
21	Proxy-Require	[1] 22.28	o	o (NOTE)	[1] 22.28, [9] 3	n/a	n/a
22	Record-Route	[1] 22.29	o		[1] 22.29	o	
23	Referred-By	[5] 3.3	c3	c3	[5] 3.3	c4	c4
24	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
25	Require	[1] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
26	Retry-After	[1] 22.31	o		[1] 22.31	o	
27	Route	[1] 22.32	o	n/a	[1] 22.32	n/a	n/a
28	State	[9] 5.1	o		[9] 5.1	o	
29	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
30	Timestamp	[1] 22.36	m	m	[1] 22.36	c5	c5
31	To	[1] 22.37	m	m	[1] 22.37	m	m
32	User-Agent	[1] 22.39	o		[1] 22.39	o	
33	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.3/9 THEN m ELSE n/a

c2: IF A.3/10 THEN o ELSE n/a

c3: IF A.3/15 THEN o ELSE n/a

c4: IF A.3/15 THEN m ELSE n/a

c5: IF A.3/7 THEN m ELSE n/a

NOTE: No distinction has been made in these tables between first use of a request on a From/To/Call-ID combination, and the usage in a subsequent one. Therefore the use of "o" etc. above has been included from a viewpoint of first usage.

Table A.110: Supported message bodies within the REGISTER request

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

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/26 -- "415" Unsupported Media Type

Table A.111: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	Expires	[1] 22.19	o		[1] 22.19	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	Organization	[1] 22.24	o		[1] 22.24	o	
17	MIME-Version	[1] 22.23	o		[1] 22.23	o	
18	Require		o			o	
19	Server	[1] 22.33	o		[1] 22.33	o	
20	State	[9] 5.1	o		[9] 5.1	o	
21	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
22	Timestamp	[1] 22.36	c2	c2	[1] 22.36	m	m
23	To	[1] 22.37	m	m	[1] 22.37	m	m
24	User-Agent	[1] 22.39	o		[1] 22.39	o	
25	Via	[1] 22.40	m	m	[1] 22.40	m	m
26	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN o ELSE n/a

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/17 -- "405" Method Not Allowed

Table A.112: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	m		[1] 22.5	m	
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/7 OR A.5/8 OR A.5/9 OR A.5/10 OR A.5/11 OR A.5/34 – 3xx or 485 "Ambiguous"

Table A.113: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/13 – 401

Table A.114: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Record-Route	[1] 22.29	o		[1] 22.29	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	
26	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/19 – 407

Table A.115: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/6 – 2xx

Table A.116: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	o		[1] 22.5	o	
3	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Contact	[1] 22.10	o		[1] 22.10	o	
7	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
14	Error-Info	[1] 22.18	o		[1] 22.18	o	
15	Expires	[1] 22.19	o		[1] 22.19	o	
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Record-Route	[1] 22.29	o		[1] 22.29	o	
20	Require		o			o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	State	[9] 5.1	o		[9] 5.1	o	
23	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
24	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
25	To	[1] 22.37	m	m	[1] 22.37	m	m
26	User-Agent	[1] 22.39	o		[1] 22.39	o	
27	Via	[1] 22.40	m	m	[1] 22.40	m	m
28	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/33 – 484

Table A.117: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Record-Route	[1] 22.29	o		[1] 22.29	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/1 – 100 Trying

Table A.118: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
2	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
3	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
4	Date	[1] 22.17	n/a	n/a	[1] 22.17	m	m
5	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
6	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
7	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/27 – 420

Table A.119: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	Unsupported	[1] 22.38	o		[1] 22.38	o	
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Prerequisite A.4/19 – REGISTER response

Prerequisite: A.5/16 OR A.5/24 OR A.5/29 OR A.5/35 OR A.5/38 OR A.5/41 OR A.5/45 OR A.5/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.120: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	c1	c1	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Require		o			o	
17	Retry-After	[1] 22.31	o		[1] 22.31	n/a	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c2	c2
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.3/10 THEN o ELSE n/a

c2: IF A.3/7 THEN m ELSE n/a

Table A.121: Supported message bodies within the REGISTER response

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

A.2.2 Proxy role

This clause contains the ICS proforma tables related to the proxy role. They need to be completed only for proxy implementations:

Prerequisite: A.2/2 -- proxy role

A.2.2.1 Major capabilities

Table A.122: Major capabilities

Item	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
1	client behaviour for registration?	[1]	m	m
2	server behaviour for registration?	[1]	m	m
3	registrar?	[1]	o	
4	client behaviour for session requests?	[1]	m	m
5	server behaviour for session requests?	[1]	m	m
6	session release?	[1]	m	m
7	Stateless proxy behaviour?	[1]	o.1	
8	Stateful proxy behaviour?	[1]	o.1	
9	insertion of date in requests and responses	[1] !Undefined Bookmark, REFDATE	o	o
10	suppression or modification of alerting information data	[1] 22.4	o	o
	Extensions			
11	The SIP INFO method?	[2]	o	o
12	Reliability of provisional responses in SIP?	[3]	o	m
13	SIP caller preferences and callee capabilities?	[4]	o	o
14	the REFER method?	[5]	o	o
15	The SIP session timer?	[6]	o	o
16	Integration of resource management and SIP?	[7]	o	m
17	SIP extensions for caller identity and privacy?	[8]	o	m
18	SIP extensions for supporting distributed call state?	[9]	o	o
19	SIP extensions for media authorization?	[10]	o	m

o.1: It is mandatory to support at least one of these items.

A.2.2.2 PDUs

Table A.123: Supported methods

Item	PDU	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	ACK request	[1] 13	m	m	[1] 13	m	m
2	BYE request	[1] 15.1	o	m	[1] 15.1	o	m
3	BYE response	[1] 15.1	o	m	[1] 15.1	o	m
4	CANCEL request	[1] 16.8	o	m	[1] 16.8	o	m
5	CANCEL response	[1] 16.8	o	m	[1] 16.8	o	m
6	COMET request	[7] 5	o	m	[7] 5	o	m
7	COMET response	[7] 5	o	m	[7] 5	o	m
8	INFO request	[2] 2	c2	c2	[2] 2	c2	c2
9	INFO response	[2] 2	c2	c2	[2] 2	c2	c2
10	INVITE request	[1] 13	m	m	[1] 13	m	m
11	INVITE response	[1] 13	m	m	[1] 13	m	m
12	OPTIONS request	[1] 11	m	m	[1] 11	m	m
13	OPTIONS response	[1] 11	m	m	[1] 11	m	m
14	PRACK request	[3] 5.1	o	m	[3] 5.2	o	m
15	PRACK response	[3] 5.1	o	m	[3] 5.2	o	m
16	REFER request	[5] 3	c1	c1	[5] 3	c1	c1
17	REFER response	[5] 3	c1	c1	[5] 3	c1	c1
18	REGISTER request	[1] 10	m	m	[1] 10	m	m
19	REGISTER response	[1] 10	m	m	[1] 10	m	m

c2: IF A.122/11 THEN m ELSE n/a

c1: IF A.122/14 THEN m ELSE n/a

A.2.2.3 PDU parameters

A.2.2.3.1 Status codes

Table A.124: Supported status codes within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	"100" Trying	[1] 23.1.1	c1	c1	[1] 23.1.1	c2	c2
2	"180" Ringing	[1] 23.1.2	c3	c3	[1] 23.1.2	c3	c3
3	"181" Call Is Being Forwarded	[1] 23.1.3	c3	c3	[1] 23.1.3	c3	c3
4	"182" Queued	[1] 23.1.4	c3	c3	[1] 23.1.4	c3	c3
5	"183" Session Progress	[1] 23.1.5	c3	c3	[1] 23.1.5	c3	c3
6	"200" OK						
7	"300" Multiple Choices						
8	"301" Moved Permanently						
9	"302" Moved Temporarily						
10	"305" Use Proxy						
11	"380" Alternative Service						
12	"400" Bad Request						
13	"401" Unauthorized						
14	"402" Payment Required						
15	"403" Forbidden						
16	"404" Not Found						
17	"405" Method Not Allowed						
18	"406" Not Acceptable						
19	"407" Proxy Authentication Required						
20	"408" Request Timeout						
21	"409" Conflict						
22	"410" Gone						
23	"411" Length Required						
24	"413" Request Entity Too Large						
25	"414" Request-URI Too Large						
26	"415" Unsupported Media Type						
27	"420" Bad Extension						
28	"421" Extension Required"						
29	"480" Temporarily not available						
30	"481" Call Leg/Transaction Does Not Exist						
31	"482" Loop Detected						
32	"483" Too Many Hops						
33	"484" Address Incomplete						
34	"485" Ambiguous						
35	"486" Busy Here						
36	"487" Request Cancelled						
37	"488" Not Acceptable Here						
38	"500" Internal Server Error						
39	"501" Not Implemented						
40	"502" Bad Gateway						
41	"503" Service Unavailable						
42	"504" Gateway Time-out						
43	"505" SIP Version not supported						
44	"580" Precondition Failure						
45	"600" Busy Everywhere						
46	"603" Decline						
47	"604" Does not exist anywhere						
48	"606" Not Acceptable						

c1: IF A.122/8 THEN m ELSE n/a

c2: IF A.122/8 THEN m ELSE i

c3: IF A.123/11 THEN m ELSE n/a

A.2.2.3.2 ACK method

Prerequisite A.123/1 – ACK request

Table A.125: Supported headers within the ACK request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	o		[1] 22.5	o	
2	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
16	Proxy-Require	[1] 22.28	m	m	[1] 22.28	m	m
17	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
18	Referred-By	[5] 3.3	c2	c2	[5] 3.3	c3	c3
19	Require	[1] 22.30	o		[1] 22.30	o	
20	Route	[1] 22.32	m	m	[1] 22.32	m	m
21	State	[9] 5.1	o		[9] 5.1	o	
22	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
23	To	[1] 22.37	m	m	[1] 22.37	m	m
24	User-Agent	[1] 22.39	o		[1] 22.39	o	
25	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

c2: IF A.122/14 THEN m ELSE n/a

c3: IF A.122/14 THEN i ELSE n/a

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

Table A.126: Supported message bodies within the ACK request

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

A.2.2.3.3 BYE method

Prerequisite A.123/2 – BYE request

Table A.127: Supported headers within the BYE request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
18	Proxy-Require	[1] 22.28, [9] 3	m	m	[1] 22.28, [9] 3	m	m
19	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
20	Referred-By	[5] 3.3	c2	c2	[5] 3.3	c3	c3
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
24	Route	[1] 22.32	m	m	[1] 22.32	m	m
25	State	[9] 5.1	o		[9] 5.1	o	
26	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
27	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
28	To	[1] 22.37	m	m	[1] 22.37	m	m
29	User-Agent	[1] 22.39	o		[1] 22.39	o	
30	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

c2: IF A.122/14 THEN m ELSE n/a

c3: IF A.122/14 THEN i ELSE n/a

Table A.128: Supported message bodies within the BYE request

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

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/26 -- "415" Unsupported Media Type

Table A.129: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	o		[1] 22.36	o	
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.130: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Require		o			o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485 "Ambiguous"

Table A.131: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Require		o			o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 – 401

Table A.132: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
13	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	
23	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 – 407

Table A.133: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
13	Require		o			o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/6 – 2xx

Table A.134: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/33 – 484

Table A.135: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
13	Require		o			o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/1– 100 Trying

Table A.136: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
3	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
4	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
5	From	[1] 22.20	m	m	[1] 22.20	m	m
6	To	[1] 22.37	m	m	[1] 22.37	m	m

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/27 – 420

Table A.137: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Require		o			o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	Unsupported	[1] 22.38	o		[1] 22.38	o	
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/3 – BYE response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.138: Supported headers within the BYE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Require		o			o	
13	Retry-After	[1] 22.31	o		[1] 22.31	o	
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Table A.139: Supported message bodies within the BYE response

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

A.2.2.3.4 CANCEL method

Prerequisite A.123/4 – CANCEL request

Table A.140: Supported headers within the CANCEL request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
15	Proxy-Require	[1] 22.28, [9] 3	m	m	[1] 22.28, [9] 3	m	m
16	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
17	Referred-By	[5] 3.3	c2	c2	[5] 3.3	c3	c3
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
21	Route	[1] 22.32	m	m	[1] 22.32	m	m
22	State	[9] 5.1	o		[9] 5.1	o	
23	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
24	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
25	To	[1] 22.37	m	m	[1] 22.37	m	m
26	User-Agent	[1] 22.39	o		[1] 22.39	o	
27	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

c2: IF A.122/14 THEN m ELSE n/a

c3: IF A.122/14 THEN i ELSE n/a

Table A.141: Supported message bodies within the CANCEL request

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

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/26 -- "415" Unsupported Media Type

Table A.142: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	From	[1] 22.20	m	m	[1] 22.20	m	m
10	MIME-Version	[1] 22.23	o		[1] 22.23	o	
11	Require		o			o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.143: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5, [1] 13	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Language	[1] 22.13	o		[1] 22.13	o	
4	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
7	From	[1] 22.20	m	m	[1] 22.20	m	m
8	MIME-Version	[1] 22.23	o		[1] 22.23	o	
9	Require		o			o	
10	State	[9] 5.1	o		[9] 5.1	o	
11	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
12	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
13	To	[1] 22.37	m	m	[1] 22.37	m	m
14	User-Agent	[1] 22.39	o		[1] 22.39	o	
15	Via	[1] 22.40	m	m	[1] 10.46	m	m
16	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485 "Ambiguous" @@@ combine in others

Table A.144: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Require		o			o	
9	State	[9] 5.1	o		[9] 5.1	o	
10	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
11	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
12	To	[1] 22.37	m	m	[1] 22.37	m	m
13	User-Agent	[1] 22.39	o		[1] 22.39	o	
14	Via	[1] 22.40	m	m	[1] 22.40	m	m
15	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 – 401

Table A.145: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
9	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
10	Require		o			o	
11	State	[9] 5.1	o		[9] 5.1	o	
12	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
13	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
14	To	[1] 22.37	m	m	[1] 22.37	m	m
15	User-Agent	[1] 22.39	o		[1] 22.39	o	
16	Via	[1] 22.40	m	m	[1] 22.40	m	m
17	Warning	[1] 22.41	o		[1] 22.41	o	
18	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 – 3xx @@@ Combine with common

Table A.146: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Require		o			o	
9	State	[9] 5.1	o		[9] 5.1	o	
10	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
11	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
12	To	[1] 22.37	m	m	[1] 22.37	m	m
13	User-Agent	[1] 22.39	o		[1] 22.39	o	
14	Via	[1] 22.40	m	m	[1] 22.40	m	m
15	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/6 OR A.124/33 – 2xx, 484

Table A.147: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
9	Require		o			o	
10	State	[9] 5.1	o		[9] 5.1	o	
11	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
12	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
13	To	[1] 22.37	m	m	[1] 22.37	m	m
14	User-Agent	[1] 22.39	o		[1] 22.39	o	
15	Via	[1] 22.40	m	m	[1] 22.40	m	m
16	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/1 – 100 Trying

Table A.148: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
3	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
4	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
5	From	[1] 22.20	m	m	[1] 22.20	m	m
6	To	[1] 22.37	m	m	[1] 22.37	m	m
7	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/27 – 420

Table A.149: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Language	[1] 22.13	o		[1] 22.13	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
5	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
6	From	[1] 22.20	m	m	[1] 22.20	m	m
7	MIME-Version	[1] 22.23	o		[1] 22.23	o	
8	Require		o			o	
9	State	[9] 5.1	o		[9] 5.1	o	
10	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
11	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
12	To	[1] 22.37	m	m	[1] 22.37	m	m
13	Unsupported	[1] 22.38	o		[1] 22.38	o	
14	User-Agent	[1] 22.39	o		[1] 22.39	o	
15	Via	[1] 22.40	m	m	[1] 22.40	m	m
16	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/5 – CANCEL response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.150: Supported headers within the CANCEL response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
17	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
18	Content-Language	[1] 22.13	o		[1] 22.13	o	
19	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
20	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
21	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
22	From	[1] 22.20	m	m	[1] 22.20	m	m
23	MIME-Version	[1] 22.23	o		[1] 22.23	o	
24	Require		o			o	
25	State	[9] 5.1	o		[9] 5.1	o	
26	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
27	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
28	To	[1] 22.37	m	m	[1] 22.37	m	m
29	User-Agent	[1] 22.39	o		[1] 22.39	o	
30	Via	[1] 22.40	m	m	[1] 22.40	m	m
31	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Table A.151: Supported message bodies within the CANCEL response

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

A.2.2.3.5 COMET method

Prerequisite A.123/6 – COMET request

Table A.152: Supported headers within the COMET request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Contact	[1] 22.10	o		[1] 22.10	o	
8	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
9	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
10	Content-Language	[1] 22.13	o		[1] 22.13	o	
11	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
12	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
13	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
14	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
15	Expires	[1] 22.19	o		[1] 22.19	o	
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Organization	[1] 22.24	o		[1] 22.24	o	
20	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
21	Proxy-Require	[1] 22.28, [9] 3	m	m	[1] 22.28, [9] 3	m	m
22	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
23	Referred-By	[5] 3.3	c2	c2	[5] 3.3	c3	c3
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
27	Route	[1] 22.32	m	m	[1] 22.32	m	m
28	State	[9] 5.1	o		[9] 5.1	o	
29	Subject	[1] 22.34	o		[1] 22.34	o	
30	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
31	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
32	To	[1] 22.37	m	m	[1] 22.37	m	m
33	User-Agent	[1] 22.39	o		[1] 22.39	o	
34	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

c2: IF A.122/14 THEN m ELSE n/a

c3: IF A.122/14 THEN i ELSE n/a

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.

Editors Note: IETF#50 Agreed that use of Record-Route inside an Invite transaction should be ignored at the UA. It is anticipated that this will be reflected in future IETF drafts and this table will then need to be updated accordingly

Editor's note to editor's note: It is believed that the above editors note refers to the use of record-route headers within reliable responses.

Table A.153: Supported message bodies within the COMET request

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

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/26 -- "415" Unsupported Media Type

Table A.154: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Organization	[1] 22.24	o		[1] 22.24	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.155: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485 "Ambiguous"

Table A.156: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 – 3xx

Table A.157: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/19 – 407

Table A.158: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/6 – 2xx

Table A.159: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Editors Note: IETF#50 Agreed that use of Record-Route inside an Invite transaction should be ignored at the UA. It is anticipated that this will be reflected in future IETF drafts and this table will then need to be updated accordingly

Editor's note to editor's note: It is believed that the above editors note refers to the use of record-route headers within reliable responses.

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/1 – 100 Trying

Table A.160: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
3	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
4	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
5	From	[1] 22.20	m	m	[1] 22.20	m	m
6	To	[1] 22.37	m	m	[1] 22.37	m	m
7	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/27 – 420

Table A.161: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	Unsupported	[1] 22.38	o		[1] 22.38	o	
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/7 – COMET response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 480, 486, 500, 503, 600, 603

Table A.162: Supported headers within the COMET response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Retry-After	[1] 22.31	o		[1] 22.31	o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

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 A.163: Supported message bodies within the COMET response

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

A.2.2.3.6 INFO method

Prerequisite A.123/8 – INFO request

Table A.164: Supported headers within the INFO request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
6	Call-ID	[1] 22.8	m		[1] 22.8	m	
7	Contact	[1] 22.10	o		[1] 22.10	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
16	Organization	[1] 22.24	o		[1] 22.24	o	
17	Priority	[1] 22.25	m	m	[1] 22.25	i	i
18	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
19	Proxy-Require	[1] 22.28, [9] 3	m	m	[1] 22.28, [9] 3	m	m
20	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
21	Referred-By	[5] 3.3	c2	c2	[5] 3.3	c3	c3
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
25	Route	[1] 22.32	m	m	[1] 22.32	m	m
26	State	[9] 5.1	o		[9] 5.1	o	
27	Subject	[1] 22.34	o		[1] 22.34	o	
28	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
29	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
30	To	[1] 22.37	m	m	[1] 22.37	m	m
31	User-Agent	[1] 22.39	o		[1] 22.39	o	
32	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

c2: IF A.122/14 THEN m ELSE n/a

c3: IF A.122/14 THEN i ELSE n/a

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 A.165: Supported message bodies within the INFO request

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

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/26 -- "415" Unsupported Media Type @@@ combine

Table A.166: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.167: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
5	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
6	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
7	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
8	Expires	[1] 22.19	o		[1] 22.19	o	
9	From	[1] 22.20	m	m	[1] 22.20	m	m
10	Organization	[1] 22.24	o		[1] 22.24	o	
11	Require		o			o	
12	Server	[1] 22.33	o		[1] 22.33	o	
13	State	[9] 5.1	o		[9] 5.1	o	
14	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
15	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
16	To	[1] 22.37	m	m	[1] 22.37	m	m
17	User-Agent	[1] 22.39	o		[1] 22.39	o	
18	Via	[1] 22.40	m	m	[1] 22.40	m	m
19	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485 "Ambiguous" @@@ combine

Table A.168: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/13 – 401

Table A.169: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	
19	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 – 3xx

Table A.170: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	User-Agent	[1] 22.39	o		[1] 22.39	o	
17	Via	[1] 22.40	m	m	[1] 22.40	m	m
18	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/6 OR A.124/33 – 2xx, 484 @@@combine

Table A.171: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m (200 and 405 only)		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
5	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
6	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
7	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
8	Expires	[1] 22.19	o		[1] 22.19	o	
9	From	[1] 22.20	m	m	[1] 22.20	m	m
10	Organization	[1] 22.24	o		[1] 22.24	o	
11	Proxy-Authenticate	[1] 22.26	o (407 only)		[1] 22.26	o	
12	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
13	Require		o			o	
14	Retry-After	[1] 22.31	o (404, 480, 486, 503, 600, 603 only)		[1] 22.31	o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	Unsupported	[1] 22.38	o (420 only)		[1] 22.38	o	
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	
24	WWW-Authenticate	[1] 22.42	o (401 only)		[1] 22.42	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/1 – 100 Trying

Table A.172: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
3	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
4	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
5	From	[1] 22.20	m	m	[1] 22.20	m	m
6	To	[1] 22.37	m	m	[1] 22.37	m	m
7	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/27 – 420

Table A.173: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Server	[1] 22.33	o		[1] 22.33	o	
12	State	[9] 5.1	o		[9] 5.1	o	
13	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
14	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
15	To	[1] 22.37	m	m	[1] 22.37	m	m
16	Unsupported	[1] 22.38	o		[1] 22.38	o	
17	User-Agent	[1] 22.39	o		[1] 22.39	o	
18	Via	[1] 22.40	m	m	[1] 22.40	m	m
19	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/9 – INFO response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.174: Supported headers within the INFO response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
3	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
4	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
5	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
6	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
7	Expires	[1] 22.19	o		[1] 22.19	o	
8	From	[1] 22.20	m	m	[1] 22.20	m	m
9	Organization	[1] 22.24	o		[1] 22.24	o	
10	Require		o			o	
11	Retry-After	[1] 22.31	o		[1] 22.31	o	
12	Server	[1] 22.33	o		[1] 22.33	o	
13	State	[9] 5.1	o		[9] 5.1	o	
14	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
15	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
16	To	[1] 22.37	m	m	[1] 22.37	m	m
17	User-Agent	[1] 22.39	o		[1] 22.39	o	
18	Via	[1] 22.40	m	m	[1] 22.40	m	m
19	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

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 A.175: Supported message bodies within the INFO response

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

A.2.2.3.7 INVITE method

Prerequisite A.123/10 – INVITE request

Table A.176: Supported headers within the INVITE request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Alert-Info	[1] 22.4	c1	c1	[1] 22.4	c2	c2
6	Allow	[1] 22.5, [1] 13	o		[1] 22.5, [1] 13	o	
7	Anonymity	[8] 5.2	o		[8] 5.2		
8	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
9	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
10	Call-Info	[1] 22.9	o		[1] 22.9	o	
11	Contact	[1] 22.10	m		[1] 22.10	m	
12	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
13	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
14	Content-Language	[1] 22.13	o		[1] 22.13	o	
15	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
16	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
17	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
18	Date	[1] 22.17	m	m	[1] 22.17	c3	c3
19	Expires	[1] 22.19	o		[1] 22.19	o	
20	From	[1] 22.20	m	m	[1] 22.20	m	m
21	In-Reply-To	[1] 22.21	m	m	[1] 22.21	i	i
22	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
23	MIME-Version	[1] 22.23	o		[1] 22.23	o	
24	Organization	[1] 22.24	o		[1] 22.24	o	
25	Priority	[1] 22.25	m	m	[1] 22.25	i	i
26	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
27	Proxy-Require	[1] 22.28, [6] 4, [8] 4, [9] 3	m	m	[1] 22.28, [6] 4, [8] 4, [9] 3	m	m
28	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
29	Referred-By	[5] 3.3	c4	c4	[5] 3.3	c5	c5
30	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
31	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
32	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
33	Require	[1] 22.30, [6] 4, [9] 3	o		[1] 22.30, [6] 4, [9] 3	o	
34	Route	[1] 22.32	m	m	[1] 22.32	m	m
35	Session expires	[6] 3	o		[6] 3	o	
36	State	[9] 5.1	o		[9] 5.1	o	
37	Subject	[1] 22.34	o		[1] 22.34	o	
38	Supported	[1] 22.35, [1] 13, [6] 5, [9] 3	o		[1] 22.35, [1] 13, [6] 5, [9] 3	o	
39	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
40	To	[1] 22.37	m	m	[1] 22.37	m	m
41	User-Agent	[1] 22.39	o		[1] 22.39	o	
42	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/10 THEN n/a ELSE m

c2: IF A.122/10 THEN m ELSE i

c3: IF A.122/9 THEN m ELSE i

c4: IF A.122/14 THEN m ELSE n/a

c5: IF A.122/14 THEN i ELSE n/a

Table A.177: Supported message bodies within the INVITE request

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

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/26 -- "415" Unsupported Media Type

Table A.178: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Anonymity	[8] 5.2	o		[8] 5.2		
5	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
6	Call-Info	[1] 22.9	o		[1] 22.9	o	
7	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
14	Error-Info	[1] 22.18	o		[1] 22.18	o	
15	Expires	[1] 22.19	o		[1] 22.19	o	
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Organization	[1] 22.24	o		[1] 22.24	o	
20	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
21	Require	[6] 5.2	o		[6] 5.2	o	
22	Server	[1] 22.33	o		[1] 22.33	o	
23	Session expires	[6] 3	o		[6] 3	o	
24	State	[9] 5.1	o		[9] 5.1	o	
25	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
26	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
27	To	[1] 22.37	m	m	[1] 22.37	m	m
28	User-Agent	[1] 22.39	o		[1] 22.39	o	
29	Via	[1] 22.40	m	m	[1] 22.40	m	m
30	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.179: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	m		[1] 22.5	m/o	
3	Anonymity	[8] 5.2	o		[8] 5.2	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	Expires	[1] 22.19	o		[1] 22.19	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
17	MIME-Version	[1] 22.23	o		[1] 22.23	o	
18	Organization	[1] 22.24	o		[1] 22.24	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485 "Ambiguous"

Table A.180: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Contact	[1] 22.10	o		[1] 22.10	o/m	
6	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	Expires	[1] 22.19	o		[1] 22.19	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
17	MIME-Version	[1] 22.23	o		[1] 22.23	o	
18	Organization	[1] 22.24	o		[1] 22.24	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/13 – 401

Table A.181: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
19	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
20	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
21	Require	[6] 5.2	o		[6] 5.2	o	
22	Server	[1] 22.33	o		[1] 22.33	o	
23	Session expires	[6] 3	o		[6] 3	o	
24	State	[9] 5.1	o		[9] 5.1	o	
25	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
26	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
27	To	[1] 22.37	m	m	[1] 22.37	m	m
28	User-Agent	[1] 22.39	o		[1] 22.39	o	
29	Via	[1] 22.40	m	m	[1] 22.40	m	m
30	Warning	[1] 22.41	o		[1] 22.41	o	
31	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/19 – 407

Table A.182: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/6 – 2xx

Table A.183: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	o		[1] 22.5	o	
3	Anonymity	[8] 5.2	o		[8] 5.2		
4	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
5	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
6	Call-Info	[1] 22.9	o		[1] 22.9	o	
7	Contact	[1] 22.10	m		[1] 22.10	m	
8	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
9	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
10	Content-Language	[1] 22.13	o		[1] 22.13	o	
11	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
12	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
13	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
14	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
15	Error-Info	[1] 22.18	o		[1] 22.18	o	
16	Expires	[1] 22.19	o		[1] 22.19	o	
17	From	[1] 22.20	m	m	[1] 22.20	m	m
18	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
19	MIME-Version	[1] 22.23	o		[1] 22.23	o	
20	Organization	[1] 22.24	o		[1] 22.24	o	
21	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
22	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
23	Require	[6] 5.2	o		[6] 5.2	o	
24	Server	[1] 22.33	o		[1] 22.33	o	
25	Session expires	[6] 3	o		[6] 3	o	
26	State	[9] 5.1	o		[9] 5.1	o	
27	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
28	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
29	To	[1] 22.37	m	m	[1] 22.37	m	m
30	User-Agent	[1] 22.39	o		[1] 22.39	o	
31	Via	[1] 22.40	m	m	[1] 22.40	m	m
32	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/33 – 484

Table A.184: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – BYE response

Prerequisite: A.124/1 – 100 Trying

Table A.185: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
2	Call-ID	[1] 22.8	n/a	n/a	[1] 22.8	m	m
6	Content-Length	[1] 22.14	n/a	n/a	[1] 22.14	m	m
8	Cseq	[1] 22.16	n/a	n/a	[1] 22.16	m	m
12	From	[1] 22.20	n/a	n/a	[1] 22.20	m	m
20	To	[1] 22.37	n/a	n/a	[1] 22.37	m	m
22	Via	[1] 22.40	n/a	n/a	[1] 22.40	m	m

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/2 OR A.124/3 OR A.124/4 OR A.124/5 – 1xx

Table A.186: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Contact	[1] 22.10	o		[1] 22.10	o/m	
6	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	Expires	[1] 22.19	o		[1] 22.19	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
17	MIME-Version	[1] 22.23	o		[1] 22.23	o	
18	Organization	[1] 22.24	o		[1] 22.24	o	
19	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
20	Require	[6] 5.2	o		[6] 5.2	o	
21	Rseq	[3] 5.1	o		[3] 5.2		
22	Server	[1] 22.33	o		[1] 22.33	o	
23	Session expires	[6] 3	o		[6] 3	o	
24	State	[9] 5.1	o		[9] 5.1	o	
25	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
26	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
27	To	[1] 22.37	m	m	[1] 22.37	m	m
28	User-Agent	[1] 22.39	o		[1] 22.39	o	
29	Via	[1] 22.40	m	m	[1] 22.40	m	m
30	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/27 – 420

Table A.187: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
19	Require	[6] 5.2	o		[6] 5.2	o	
20	Server	[1] 22.33	o		[1] 22.33	o	
21	Session expires	[6] 3	o		[6] 3	o	
22	State	[9] 5.1	o		[9] 5.1	o	
23	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
24	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
25	To	[1] 22.37	m	m	[1] 22.37	m	m
26	Unsupported	[1] 22.38	o		[1] 22.38	o	
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/11 – INVITE response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.188: Supported headers within the INVITE response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Anonymity	[8] 5.2	o		[8] 5.2		
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11, [7] 8.3	o		[1] 22.11, [7] 8.3	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Media-Authorization	[10] 5.1	o		[10] 5.1	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Remote-Party-ID	[8] 5.1	o		[8] 5.1	o	
19	Require	[6] 5.2	o		[6] 5.2	o	
20	Retry-After	[1] 22.31	o		[1] 22.31	n/a	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	Session expires	[6] 3	o		[6] 3	o	
23	State	[9] 5.1	o		[9] 5.1	o	
24	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
25	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
26	To	[1] 22.37	m	m	[1] 22.37	m	m
27	User-Agent	[1] 22.39	o		[1] 22.39	o	
28	Via	[1] 22.40	m	m	[1] 22.40	m	m
29	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Table A.189: Supported message bodies within the INVITE response

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

A.2.2.3.8 OPTIONS method

Prerequisite A.123/12 – OPTIONS request

Table A.190: Supported headers within the OPTIONS request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Call-Info	[1] 22.9	o		[1] 22.9	o	
8	Contact	[1] 22.10	m		[1] 22.10	m	
9	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
10	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
11	Content-Language	[1] 22.13	o		[1] 22.13	o	
12	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
13	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
14	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
15	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Organization	[1] 22.24	o		[1] 22.24	o	
20	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
21	Proxy-Require	[1] 22.28, [9] 3	m	m	[1] 22.28, [9] 3	m	m
22	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
23	Referred-By	[5] 3.3	c2	c2	[5] 3.3	c3	c3
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
27	Route	[1] 22.32	m	m	[1] 22.32	m	m
28	State	[9] 5.1	o		[9] 5.1	o	
29	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
30	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
31	To	[1] 22.37	m	m	[1] 22.37	m	m
32	User-Agent	[1] 22.39	o		[1] 22.39	o	
33	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

c2: IF A.122/14 THEN m ELSE n/a

c3: IF A.122/14 THEN i ELSE n/a

Table A.191: Supported message bodies within the OPTIONS request

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

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/26 -- "415" Unsupported Media Type

Table A.192: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Organization	[1] 22.24	o		[1] 22.24	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.193: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	m	m	[1] 22.5	m	m
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485 "Ambiguous"

Table A.194: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/13 – 401

Table A.195: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	
25	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/19 – 407

Table A.196: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/6 – 2xx

Table A.197: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	o		[1] 22.5	o/m	
3	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Contact	[1] 22.10	o		[1] 22.10	o	
7	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
14	Error-Info	[1] 22.18	o		[1] 22.18	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
19	Require		o			o	
20	Server	[1] 22.33	o		[1] 22.33	o	
21	State	[9] 5.1	o		[9] 5.1	o	
22	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
23	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
24	To	[1] 22.37	m	m	[1] 22.37	m	m
25	User-Agent	[1] 22.39	o		[1] 22.39	o	
26	Via	[1] 22.40	m	m	[1] 22.40	m	m
27	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/33 – 484

Table A.198: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/1 – 100 Trying

Table A.199: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
3	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
4	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
5	From	[1] 22.20	m	m	[1] 22.20	m	m
6	To	[1] 22.37	m	m	[1] 22.37	m	m
7	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/27 – 420

Table A.200: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	Unsupported	[1] 22.38	o		[1] 22.38	o	
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/13 – OPTIONS response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.201: Supported headers within the OPTIONS response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Retry-After	[1] 22.31	o		[1] 22.31	n/a	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Table A.202: Supported message bodies within the OPTIONS response

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

A.2.2.3.9 PRACK method

Prerequisite A.123/14 – PRACK request

Table A.203: Supported headers within the PRACK request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Contact	[4] 5.2	o		[4] 5.2	o	
3	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
4	Accept-Language	[1] 22.3	o		[1] 22.3	o	
5	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
6	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
7	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Max-Forwards	[1] 22.22	o	o	[1] 22.22	n/a	n/a
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
18	Proxy-Require	[1] 22.28, [9] 3	m	m	[1] 22.28, [9] 3	m	m
19	RAck	[3] 5.1	m		[3] 5.1	m	
20	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
21	Referred-By	[5] 3.3	c2	c2	[5] 3.3	c3	c3
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] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
25	Route	[1] 22.32	m	m	[1] 22.32	m	m
26	State	[9] 5.1	o		[9] 5.1	o	
27	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
28	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
29	To	[1] 10.43	m	m	[1] 22.37	m	m
30	User-Agent	[1] 22.39	o		[1] 22.39	o	
31	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

c2: IF A.122/14 THEN m ELSE n/a

c3: IF A.122/14 THEN i ELSE n/a

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.

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.

Editors Note: IETF#50 Agreed that use of Record-Route inside an Invite transaction should be ignored at the UA. It is anticipated that this will be reflected in future IETF drafts and this table will then need to be updated accordingly

Editor's note to editor's note: It is believed that the above editors note refers to the use of record-route headers within reliable responses.

Table A.204: Supported message bodies within the PRACK request

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

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/26 -- "415" Unsupported Media Type

Table A.205: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	MIME-Version	[1] 22.23	o		[1] 22.23	o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.206: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Allow	[1] 22.5	m		[1] 22.5	m	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485 "Ambiguous"

Table A.207: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Error-Info	[1] 22.18	o		[1] 22.18	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/13 – 401

Table A.208: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
13	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
14	Server	[1] 22.33	o		[1] 22.33	o	
15	State	[9] 5.1	o		[9] 5.1	o	
16	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
17	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
18	To	[1] 22.37	m	m	[1] 22.37	m	m
19	User-Agent	[1] 22.39	o		[1] 22.39	o	
20	Via	[1] 22.40	m	m	[1] 22.40	m	m
21	Warning	[1] 22.41	o		[1] 22.41	o	
22	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.122/9 THEN m ELSE i

Editors Note: IETF#50 Agreed that use of Record-Route inside an Invite transaction should be ignored at the UA. It is anticipated that this will be reflected in future IETF drafts and this table will then need to be updated accordingly

Editor's note to editor's note: It is believed that the above editors note refers to the use of record-route headers within reliable responses.

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/19 – 407

Table A.209: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/6 OR A.124/33 – 2xx, 484

Table A.210: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Editors Note: IETF#50 Agreed that use of Record-Route inside an Invite transaction should be ignored at the UA. It is anticipated that this will be reflected in future IETF drafts and this table will then need to be updated accordingly

Editor's note to editor's note: It is believed that the above editors note refers to the use of record-route headers within reliable responses.

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/1 – 100 Trying

Table A.211: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
3	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
4	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
5	From	[1] 22.20	m	m	[1] 22.20	m	m
6	To	[1] 22.37	m	m	[1] 22.37	m	m
7	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/27 – 420@@@combine

Table A.212: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Server	[1] 22.33	o		[1] 22.33	o	
13	State	[9] 5.1	o		[9] 5.1	o	
14	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
15	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
16	To	[1] 22.37	m	m	[1] 22.37	m	m
17	User-Agent	[1] 22.39	o		[1] 22.39	o	
18	Via	[1] 22.40	m	m	[1] 22.40	m	m
19	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/15 – PRACK response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.213: Supported headers within the PRACK response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Error-Info	[1] 22.18	o		[1] 22.18	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Retry-After	[1] 22.31	o		[1] 22.31	n/a	
13	Server	[1] 22.33	o		[1] 22.33	o	
14	State	[9] 5.1	o		[9] 5.1	o	
15	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
16	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
17	To	[1] 22.37	m	m	[1] 22.37	m	m
18	User-Agent	[1] 22.39	o		[1] 22.39	o	
19	Via	[1] 22.40	m	m	[1] 22.40	m	m
20	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

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 A.214: Supported message bodies within the PRACK response

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

A.2.2.3.10 REFER method

Prerequisite A.123/16 – REFER request

Table A.215: 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] 22.3	o		[1] 22.3	o	
3	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Contact	[1] 22.10	o		[1] 22.10	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
16	Proxy-Require	[1] 22.28, [9] 3	m	m	[1] 22.28, [9] 3	m	m
17	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
18	Refer-To	[5] 3.3	c2	c2	[5] 3.3	c3	c3
19	Referred-By	[5] 3.3	c2	c2	[5] 3.3	c3	c3
20	Reject-Contact	[4] 5.3	o		[4] 5.3	o	
21	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
22	Require	[1] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
23	Route	[1] 22.32	m	m	[1] 22.32	m	m
24	State	[9] 5.1	o		[9] 5.1	o	
25	Supported	[1] 22.35, [1] 13, [6] 5, [9] 3	o		[1] 22.35, [1] 13, [6] 5, [9] 3	o	
26	Timestamp	[1] 22.36	m	m	[1] 22.36	i	i
27	To	[1] 22.37	m	m	[1] 22.37	m	m
28	User-Agent	[1] 22.39	o		[1] 22.39	o	
29	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

c2: IF A.122/14 THEN m ELSE n/a

c3: IF A.122/14 THEN i ELSE n/a

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 A.216: Supported message bodies within the REFER request

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

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/26 -- "415" Unsupported Media Type

Table A.217: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Require		o			o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.218: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	m	m	[1] 22.5	m	m
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485
 "Ambiguous"@@@combine

Table A.219: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Contact	[1] 22.10	o		[1] 22.10	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 – 401

Table A.220: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Expires	[1] 22.19	o		[1] 22.19	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Organization	[1] 22.24	o		[1] 22.24	o	
13	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	
23	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/19 – 407

Table A.221: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Contact	[1] 22.10	o		[1] 22.10	o	
3	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
4	Content-Language	[1] 22.13	o		[1] 22.13	o	
5	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
6	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
7	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
8	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
9	Expires	[1] 22.19	o		[1] 22.19	o	
10	From	[1] 22.20	m	m	[1] 22.20	m	m
11	MIME-Version	[1] 22.23	o		[1] 22.23	o	
12	Organization	[1] 22.24	o		[1] 22.24	o	
13	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/6 – 2xx

Table A.222: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
11	Expires	[1] 22.19	o		[1] 22.19	o	
12	From	[1] 22.20	m	m	[1] 22.20	m	m
13	MIME-Version	[1] 22.23	o		[1] 22.23	o	
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	User-Agent	[1] 22.39	o		[1] 22.39	o	
23	Via	[1] 22.40	m	m	[1] 22.40	m	m
24	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/33 – 484@@@combine

Table A.223: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Contact	[1] 22.10	o		[1] 22.10	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	User-Agent	[1] 22.39	o		[1] 22.39	o	
21	Via	[1] 22.40	m	m	[1] 22.40	m	m
22	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/1 – 100 Trying

Table A.224: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
3	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
4	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
5	From	[1] 22.20	m	m	[1] 22.20	m	m
6	To	[1] 22.37	m	m	[1] 22.37	m	m
7	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/27 – 420

Table A.225: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Contact	[1] 22.10	o		[1] 22.10	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Server	[1] 22.33	o		[1] 22.33	o	
16	State	[9] 5.1	o		[9] 5.1	o	
17	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
18	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
19	To	[1] 22.37	m	m	[1] 22.37	m	m
20	Unsupported	[1] 22.38	o		[1] 22.38	o	
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

Prerequisite A.123/17 – REFER response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.226: Supported headers within the REFER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Contact	[1] 22.10	o		[1] 22.10	o	
4	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
5	Content-Language	[1] 22.13	o		[1] 22.13	o	
6	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
7	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
8	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
9	Date	[1] 22.17	m	m	[1] 22.17	c1	c1
10	Expires	[1] 22.19	o		[1] 22.19	o	
11	From	[1] 22.20	m	m	[1] 22.20	m	m
12	MIME-Version	[1] 22.23	o		[1] 22.23	o	
13	Organization	[1] 22.24	o		[1] 22.24	o	
14	Require		o			o	
15	Retry-After	[1] 22.31	o		[1] 22.31	o	
16	Server	[1] 22.33	o		[1] 22.33	o	
17	State	[9] 5.1	o		[9] 5.1	o	
18	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
19	Timestamp	[1] 22.36	i	i	[1] 22.36	i	i
20	To	[1] 22.37	m	m	[1] 22.37	m	m
21	User-Agent	[1] 22.39	o		[1] 22.39	o	
22	Via	[1] 22.40	m	m	[1] 22.40	m	m
23	Warning	[1] 22.41	o		[1] 22.41	o	

c1: IF A.122/9 THEN m ELSE i

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 A.227: Supported message bodies within the REFER response

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

A.2.2.3.11 REGISTER method

Prerequisite A.123/18 – REGISTER request

Table A.228: Supported headers within the REGISTER request

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Authorization	[1] 22.7	m	m	[1] 22.7	i	i
5	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
6	Call-Info	[1] 22.9	o		[1] 22.9	o	
7	Contact	[1] 22.10	m		[1] 22.10	m	
8	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
9	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
10	Content-Language	[1] 22.13	o		[1] 22.13	o	
11	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
12	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
13	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
14	Date	[1] 22.17	m	m	[1] 22.17	m	m
15	Expires	[1] 22.19	o		[1] 22.19	o	
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Max-Forwards	[1] 22.22	m	m	[1] 22.22	m	m
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Organization	[1] 22.24	o		[1] 22.24	o	
20	Proxy-Authorization	[1] 22.27	o		[1] 22.27	o	
21	Proxy-Require	[1] 22.28, [9] 3	m	m	[1] 22.28, [9] 3	m	m
22	Record-Route	[1] 22.29	m	m	[1] 22.29	m	m
23	Referred-By	[5] 3.3	c1	c1	[5] 3.3	c2	c2
24	Request-Disposition	[4] 5.5	o		[4] 5.5	o	
25	Require	[1] 22.30, [9] 3	o		[1] 22.30, [9] 3	o	
26	Retry-After	[1] 22.31	o		[1] 22.31	o	
27	Route	[1] 22.32	m	m	[1] 22.32	m	m
28	State	[9] 5.1	o		[9] 5.1	o	
29	Supported	[1] 22.35, [6] 5, [9] 3	o		[1] 22.35, [6] 5, [9] 3	o	
30	Timestamp	[1] 22.36	m	m	[1] 22.36	c3	c3
31	To	[1] 22.37	m	m	[1] 22.37	m	m
32	User-Agent	[1] 22.39	o		[1] 22.39	o	
33	Via	[1] 22.40	m	m	[1] 22.40	m	m

c1: IF A.122/14 THEN m ELSE n/a

c2: IF A.122/14 THEN i ELSE n/a

c3: IF A.122/3 THEN m ELSE i

Table A.229: Supported message bodies within the REGISTER request

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

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/26 -- "415" Unsupported Media Type

Table A.230: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Accept-Encoding	[1] 22.2	o		[1] 22.2	o	
3	Accept-Language	[1] 22.3	o		[1] 22.3	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
7	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
8	Content-Language	[1] 22.13	o		[1] 22.13	o	
9	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
10	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
11	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
12	Date	[1] 22.17	m	m	[1] 22.17	m	m
13	Error-Info	[1] 22.18	o		[1] 22.18	o	
14	Expires	[1] 22.19	o		[1] 22.19	o	
15	From	[1] 22.20	m	m	[1] 22.20	m	m
16	Organization	[1] 22.24	o		[1] 22.24	o	
17	MIME-Version	[1] 22.23	o		[1] 22.23	o	
18	Require		o			o	
19	Server	[1] 22.33	o		[1] 22.33	o	
20	State	[9] 5.1	o		[9] 5.1	o	
21	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
22	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
23	To	[1] 22.37	m	m	[1] 22.37	m	m
24	User-Agent	[1] 22.39	o		[1] 22.39	o	
25	Via	[1] 22.40	m	m	[1] 22.40	m	m
26	Warning	[1] 22.41	o		[1] 22.41	o	

c4: IF A.122/3 THEN m ELSE i

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/17 -- "405" Method Not Allowed

Table A.231: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	m		[1] 22.5	m	
3	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
4	Call-Info	[1] 22.9	o		[1] 22.9	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c4: IF A.122/3 THEN m ELSE i

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/7 OR A.124/8 OR A.124/9 OR A.124/10 OR A.124/11 OR A.124/34 – 3xx or 485 "Ambiguous"

Table A.232: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Contact	[1] 22.10	o		[1] 22.10	o	
5	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
6	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
7	Content-Language	[1] 22.13	o		[1] 22.13	o	
8	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
9	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
10	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
11	Date	[1] 22.17	m	m	[1] 22.17	m	m
12	Error-Info	[1] 22.18	o		[1] 22.18	o	
13	Expires	[1] 22.19	o		[1] 22.19	o	
14	From	[1] 22.20	m	m	[1] 22.20	m	m
15	Organization	[1] 22.24	o		[1] 22.24	o	
16	MIME-Version	[1] 22.23	o		[1] 22.23	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c4: IF A.122/3 THEN m ELSE i

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/13 – 401

Table A.233: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Record-Route	[1] 22.29		n/a	[1] 22.29		n/a
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	
26	WWW-Authenticate	[1] 22.42	o		[1] 22.42	o	

c4: IF A.122/3 THEN m ELSE i

Editor's note: The RFC status for Record-Route has been left empty, because at the moment it is not clear what this status should be.

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/19 – 407

Table A.234: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Proxy-Authenticate	[1] 22.26	o		[1] 22.26	o	
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c4: IF A.122/3 THEN m ELSE i

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/6 – 2xx

Table A.235: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Allow	[1] 22.5	o		[1] 22.5	o	
3	Authentication-Info	[1] 22.6	o		[1] 22.6	o	
4	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
5	Call-Info	[1] 22.9	o		[1] 22.9	o	
6	Contact	[1] 22.10	o		[1] 22.10	o	
7	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
8	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
9	Content-Language	[1] 22.13	o		[1] 22.13	o	
10	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
11	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
12	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
13	Date	[1] 22.17	m	m	[1] 22.17	m	m
14	Error-Info	[1] 22.18	o		[1] 22.18	o	
15	Expires	[1] 22.19	o		[1] 22.19	o	
16	From	[1] 22.20	m	m	[1] 22.20	m	m
17	Organization	[1] 22.24	o		[1] 22.24	o	
18	MIME-Version	[1] 22.23	o		[1] 22.23	o	
19	Record-Route	[1] 22.29		n/a	[1] 22.29		n/a
20	Require		o			o	
21	Server	[1] 22.33	o		[1] 22.33	o	
22	State	[9] 5.1	o		[9] 5.1	o	
23	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
24	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
25	To	[1] 22.37	m	m	[1] 22.37	m	m
26	User-Agent	[1] 22.39	o		[1] 22.39	o	
27	Via	[1] 22.40	m	m	[1] 22.40	m	m
28	Warning	[1] 22.41	o		[1] 22.41	o	

c4: IF A.122/3 THEN m ELSE i

Editor's note: The RFC status for Record-Route has been left empty, because at the moment it is not clear what this status should be.

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/33 – 484

Table A.236: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Record-Route	[1] 22.29		n/a	[1] 22.29		n/a
17	Require		o			o	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c4: IF A.122/3 THEN m ELSE i

Editor's note: The RFC status for Record-Route has been left empty, because at the moment it is not clear what this status should be.

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/1 – 100 Trying

Table A.237: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
2	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
3	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
4	Date	[1] 22.17	m	m	[1] 22.17	m	m
5	From	[1] 22.20	m	m	[1] 22.20	m	m
6	To	[1] 22.37	m	m	[1] 22.37	m	m
7	Via	[1] 22.40	m	m	[1] 22.40	m	m

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/27 – 420

Table A.238: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Require		o			o	
17	Server	[1] 22.33	o		[1] 22.33	o	
18	State	[9] 5.1	o		[9] 5.1	o	
19	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
20	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
21	To	[1] 22.37	m	m	[1] 22.37	m	m
22	Unsupported	[1] 22.38	o		[1] 22.38	o	
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

c4: IF A.122/3 THEN m ELSE i

Prerequisite A.123/19 – REGISTER response

Prerequisite: A.124/16 OR A.124/24 OR A.124/29 OR A.124/35 OR A.124/38 OR A.124/41 OR A.124/45 OR A.124/46 – 404, 413, 480, 486, 500, 503, 600, 603

Table A.239: Supported headers within the REGISTER response

Item	Header	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	Accept	[1] 22.1	o		[1] 22.1	o	
2	Call-ID	[1] 22.8	m	m	[1] 22.8	m	m
3	Call-Info	[1] 22.9	o		[1] 22.9	o	
4	Content-Disposition	[1] 22.11	o		[1] 22.11	o	
5	Content-Encoding	[1] 22.12	o		[1] 22.12	o	
6	Content-Language	[1] 22.13	o		[1] 22.13	o	
7	Content-Length	[1] 22.14	m	m	[1] 22.14	m	m
8	Content-Type	[1] 22.15	m	m	[1] 22.15	m	m
9	Cseq	[1] 22.16	m	m	[1] 22.16	m	m
10	Date	[1] 22.17	m	m	[1] 22.17	m	m
11	Error-Info	[1] 22.18	o		[1] 22.18	o	
12	Expires	[1] 22.19	o		[1] 22.19	o	
13	From	[1] 22.20	m	m	[1] 22.20	m	m
14	Organization	[1] 22.24	o		[1] 22.24	o	
15	MIME-Version	[1] 22.23	o		[1] 22.23	o	
16	Require		o			o	
17	Retry-After	[1] 22.31	o		[1] 22.31	n/a	
18	Server	[1] 22.33	o		[1] 22.33	o	
19	State	[9] 5.1	o		[9] 5.1	o	
20	Supported	[1] 22.35, [9] 3	o		[1] 22.35, [9] 3	o	
21	Timestamp	[1] 22.36	m	m	[1] 22.36	c4	c4
22	To	[1] 22.37	m	m	[1] 22.37	m	m
23	User-Agent	[1] 22.39	o		[1] 22.39	o	
24	Via	[1] 22.40	m	m	[1] 22.40	m	m
25	Warning	[1] 22.41	o		[1] 22.41	o	

Table A.240: Supported message bodies within the REGISTER response

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

A.3 Profile definition for the Session Description Protocol as used in this specification

A.3.1 Introduction

A.3.2 User agent role

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

Prerequisite: [A.2/1](#) -- user agent role

A.3.2.1 Major capabilities

Table A.241: Major capabilities

Item	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
	Extensions			
26	Integration of resource management and SIP?	[8]	o	m

A.3.2.2 SDP types

Table A.242: SDP types

Item	Type	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
Session level description							
1	v= (protocol version)	[11] 6	m	m	[11] 6	m	m
2	o= (owner/creator and session identifier)	[11] 6	m	m	[11] 6	m	m
3	s= (session name)	[11] 6	m	m	[11] 6	m	m
4	i= (session information)	[11] 6	o		[11] 6		
5	u= (URI of description)	[11] 6	o		[11] 6		
6	e= (email address)	[11] 6	o		[11] 6		
7	p= (phone number)	[11] 6	o		[11] 6		
8	c= (connection information)	[11] 6	o		[11] 6		
9	b= (bandwidth information)	[11] 6	o		[11] 6		
Time description (one or more per description)							
10	t= (time the session is active)	[11] 6	m	m	[11] 6	m	m
11	r= (zero or more repeat times)	[11] 6	o		[11] 6		
Session level description (continued)							
12	z= (time zone adjustments)	[11] 6	o		[11] 6		
13	k= (encryption key)	[11] 6	o		[11] 6		
14	a= (zero or more session attribute lines)	[11] 6	o		[11] 6		
Media description (zero or more per description)							
15	m= (media name and transport address)	[11] 6	o	o	[11] 6	m	m
16	i= (media title)	[11] 6	o		[11] 6		
17	c= (connection information)	[11] 6	c1	c1	[11] 6		
18	b= (bandwidth information)	[11] 6	o		[11] 6		
19	k= (encryption key)	[11] 6	o		[11] 6		
20	a= (zero or more media attribute lines)	[11] 6	o		[11] 6		

c1: IF A.242/15 THEN m ELSE n/a

Prerequisite A.242/14 OR A.242/20 - - a= (zero or more session/media attribute lines)

Table A.243: zero or more session / media attribute lines (a=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	category (a=cat)	[11] 6			[11] 6		
2	keywords (a=keywds)	[11] 6			[11] 6		
3	name and version of tool (a=tool)	[11] 6			[11] 6		
4	packet time (a=ptime)	[11] 6			[11] 6		
5	maximum packet time (a=maxptime)	[11] 6			[11] 6		
6	receive-only mode (a=recvonly)	[11] 6			[11] 6		
7	send and receive mode (a=sendrecv)	[11] 6			[11] 6		
8	send-only mode (a=sendonly)	[11] 6			[11] 6		
9	whiteboard orientation (a=orient)	[11] 6			[11] 6		
10	conference type (a=type)	[11] 6			[11] 6		
11	character set (a=charset)	[11] 6			[11] 6		
12	language tag (a=sdplang)	[11] 6			[11] 6		
13	language tag (a=lang)	[11] 6			[11] 6		
14	frame rate (a=framerate)	[11] 6			[11] 6		
15	quality (a=quality)	[11] 6			[11] 6		
16	format specific parameters (a=fmtp)	[11] 6			[11] 6		
17	rtpmap attribute (a=rtpmap)	[11] 6			[11] 6		
18	qos-attribute (a=qos)	[8] 5	c1	c1	[8] 5	c2	c2

c1: IF A.241/26 THEN o ELSE n/a

c2: IF A.241/26 THEN m ELSE n/a

A.3.2.3 SDP types parameters

Prerequisite A.242/2 - - o= (owner/creator and session identifier)

Table A.244: owner/creator and session identifier type (o=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	username	[11] 6	m	m	[11] 6	m	m
2	session id	[11] 6	m	m	[11] 6	m	m
3	version	[11] 6	m	m	[11] 6	m	m
4	network type	[11] 6	m	m	[11] 6	m	m
5	address type	[11] 6	m	m	[11] 6	m	m
6	address	[11] 6	m	m	[11] 6	m	m

Prerequisite A.242/10 - - t= (time the session is active)

Table A.245: time the session is active type (b=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	start time	[11] 6			[11] 6		
2	stop time	[11] 6			[11] 6		

Prerequisite A.242/11 - - r= (zero or more repeat times)

Table A.246: zero or more repeat times (r=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	repeat interval	[11] 6			[11] 6		
2	active duration	[11] 6			[11] 6		
3	list of offsets from start-time	[11] 6			[11] 6		

Prerequisite A.242/12 - - z= (time zone adjustments)

Table A.247: time zone adjustments type (z=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	adjustment time	[11] 6			[11] 6		
2	offset	[11] 6			[11] 6		
3	adjustment time	[11] 6			[11] 6		
4	offset	[11] 6			[11] 6		

Prerequisite A.242/13 - - k= (encryption key)

Table A.248: encryption key type (k=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	method	[11] 6			[11] 6		
2	encryption key	[11] 6			[11] 6		

Prerequisite A.242/15 - - m= (media name and transport address)

Table A.249: media name and transport address type (m=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	media - "audio" - "video" - "application" - "data" - "control"	[11] 6			[11] 6		
2	port	[11] 6			[11] 6		
3	transport	[11] 6			[11] 6		
4	fmt list	[11] 6			[v] 6		

Editor's note: It is expected that this table will be expanded, as this is the principle table that will distinguish operation of different entities within the IM CN subsystem.

Prerequisite A.242/17 - - c= (connection information)

Table A.250: connection type (c=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	network type	[11] 6			[11] 6		
2	address type	[11] 6			[11] 6		
3	connection address	[11] 6			[11] 6		

Prerequisite A.242/18 - - b= (bandwidth information)

Table A.251: bandwidth information (b=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	modifier	[11] 6			[11] 6		
2	bandwidth-value	[11] 6			[11] 6		

A.3.3 Proxy role

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

Prerequisite: A.2/2 -- proxy role

A.3.3.1 Major capabilities

Table A.252: Major capabilities

Item	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
	Extensions			
1	Integration of resource management and SIP?	[8]	o	m

A.3.3.2 SDP types

Table A.253: SDP types

Item	Type	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
Session level description							
1	v= (protocol version)	[11] 6	m	m	[11] 6	m	m
2	o= (owner/creator and session identifier).	[11] 6	m	m	[11] 6	i	i
3	s= (session name)	[11] 6	m	m	[11] 6	i	i
4	i= (session information)	[11] 6	m	m	[11] 6	i	i
5	u= (URI of description)	[11] 6	m	m	[11] 6	i	i
6	e= (email address)	[11] 6	m	m	[11] 6	i	i
7	p= (phone number)	[11] 6	m	m	[11] 6	i	i
8	c= (connection information)	[11] 6	m	m	[11] 6	i	i
9	b= (bandwidth information)	[11] 6	m	m	[11] 6	i	i
Time description (one or more per description)							
10	t= (time the session is active)	[11] 6	m	m	[11] 6	i	i
11	r= (zero or more repeat times)	[11] 6	m	m	[11] 6	i	i
Session level description (continued)							
12	z= (time zone adjustments)	[11] 6	m	m	[11] 6	i	i
13	k= (encryption key)	[11] 6	m	m	[11] 6	i	i
14	a= (zero or more session attribute lines)	[11] 6	m	m	[11] 6	i	i
Media description (zero or more per description)							
15	m= (media name and transport address)	[11] 6	m	m	[11] 6	m	m
16	i= (media title)	[11] 6	o		[11] 6		
17	c= (connection information)	[11] 6	o		[11] 6		
18	b= (bandwidth information)	[11] 6	o		[11] 6		
19	k= (encryption key)	[11] 6	o		[11] 6		
20	a= (zero or more media attribute lines)	[11] 6	o		[11] 6		

Prerequisite A.253/14 OR A.253/20 -- a= (zero or more session/media attribute lines)

Table A.254: zero or more session / media attribute lines (a=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	category (a=cat)	[11] 6			[11] 6		
2	keywords (a=keywds)	[11] 6			[11] 6		
3	name and version of tool (a=tool)	[11] 6			[11] 6		
4	packet time (a=ptime)	[11] 6			[11] 6		
5	maximum packet time (a=maxptime)	[11] 6			[11] 6		
6	receive-only mode (a=recvonly)	[11] 6			[11] 6		
7	send and receive mode (a=sendrecv)	[11] 6			[11] 6		
8	send-only mode (a=sendonly)	[11] 6			[11] 6		
9	whiteboard orientation (a=orient)	[11] 6			[11] 6		
10	conference type (a=type)	[11] 6			[11] 6		
11	character set (a=charset)	[11] 6			[11] 6		
12	language tag (a=sdplang)	[11] 6			[11] 6		
13	language tag (a=lang)	[11] 6			[11] 6		
14	frame rate (a=framerate)	[11] 6			[11] 6		
15	quality (a=quality)	[11] 6			[11] 6		
16	format specific parameters (a=fmtp)	[11] 6			[11] 6		
17	rtpmap attribute (a=rtpmap)	[11] 6			[11] 6		
18	qos-attribute (a=qos)	[8] 5	m	m	[8] 5	c2	c2

c2: IF A.252/1 THEN m ELSE i

A.3.2.3 SDP types parameters

Prerequisite A.253/2 -- o= (owner/creator and session identifier)

Table A.255: owner/creator and session identifier type (o=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	username	[11] 6	m	m	[11] 6	m	m
2	session id	[11] 6	m	m	[11] 6	m	m
3	version	[11] 6	m	m	[11] 6	m	m
4	network type	[11] 6	m	m	[11] 6	m	m
5	address type	[11] 6	m	m	[11] 6	m	m
6	address	[11] 6	m	m	[11] 6	m	m

Prerequisite A.253/10 -- t= (time the session is active)

Table A.256: time the session is active type (b=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	start time	[11] 6			[11] 6		
2	stop time	[11] 6			[11] 6		

Prerequisite A.253/11 - - r= (zero or more repeat times)

Table A.257: zero or more repeat times (r=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	repeat interval	[11] 6			[11] 6		
2	active duration	[11] 6			[11] 6		
3	list of offsets from start-time	[11] 6			[11] 6		

Prerequisite A.253/12 - - z= (time zone adjustments)

Table A.258: time zone adjustments type (z=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	adjustment time	[11] 6			[11] 6		
2	offset	[11] 6			[11] 6		
3	adjustment time	[11] 6			[11] 6		
4	offset	[11] 6			[11] 6		

Prerequisite A.253/13 - - k= (encryption key)

Table A.259: encryption key type (k=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	method	[11] 6			[11] 6		
2	encryption key	[11] 6			[11] 6		

Prerequisite A.253/15 - - m= (media name and transport address)

Table A.260: media name and transport address type (m=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	media - "audio" - "video" - "application" - "data" - "control"	[11] 6			[11] 6		
2	port	[11] 6			[11] 6		
3	transport	[11] 6			[11] 6		
4	fmt list	[11] 6			[11] 6		

Editor's note: It is expected that this table will be expanded, as this is the principle table that will distinguish operation of different entities within the IM CN subsystem.

Prerequisite A.253/17 - - c= (connection information)

Table A.261: connection type (c=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	network type	[11] 6			[11] 6		
2	address type	[11] 6			[11] 6		
3	connection address	[11] 6			[11] 6		

Prerequisite A.253/18 -- b= (bandwidth information)

Table A.262: bandwidth information (b=)

Item	Field	Sending			Receiving		
		Ref.	RFC status	Profile status	Ref.	RFC status	Profile status
1	modifier	[11] 6			[11] 6		
2	bandwidth-value	[11] 6			[11] 6		

A.4 Profile definition for other message bodies as used in this specification

Annex B (informative): Documentation of temporary solutions that are to be submitted to the IETF

Editor's note: This annex provides a temporary space for holding the contents of material that is to be submitted to the IETF, or has been submitted to the IETF but is insufficiently processed. Material in this annex will either:

- Process to RFC status, where said RFC will be normatively referenced from the main body of the text.
- Not progress to RFC status, where, after review of the requirements in association with the reasons for lack of progress, the material will be placed in the main body of this document.

Material to be submitted to the IETF will be ideally submitted under the title of draft-3gpp-sip-xxxxxxx.

Submission to the IETF under this title should be performed with the approval of the CN1 plenary, either by full meeting, or by an equivalent email correspondence procedure.

4.2 URL and address assignments

In order for SIP and SDP to operate, the following preconditions apply:

- 1) I-CSCFs used in registration are allocated FQDNs. Other IM CN subsystem entities may be allocated FQDNs. How these addresses are assigned to the logical entities is up to the network operator. For example, a single FQDN may be assigned to all I-CSCFs, and the load shared between various physical boxes by underlying IP capabilities, or a separate FQDN may be assigned to each I-CSCF, and the load shared between various physical boxes using DNS SRV capabilities

Editor's note: The requirements for DNS-SRV entries or alternatives require further discussion.

- 2) All IM CN subsystem entities are allocated IP addresses. Allocation of IPv6 and IPv4 addresses fulfils the requirements of of 23.221 [13] clause 5.1.
- 3) The subscriber is allocated a private user identity by the home network operator, and this is contained within the USIM. This private user identity is available to the SIP application within the UE.

NOTE: The FQDNs may be resolved by using any of public DNSs, private DNSs, or peer-to-peer agreements.

- 4) The subscriber is allocated one or more public user identities by the home network operator. At least one of these is contained within the USIM. All public user identities are available to the SIP application within the UE.
- 5) The UE is dynamically assigned an IP version 6 address.

5 Application usage of SIP

5.1 Procedures at the UE

5.1.1 Registration and authentication

Editor's Note: Normal and Exceptional Procedures might be splitted in sub-sections of the following clauses. This is true for all of the sub-sections

5.1.1.1 General

The UE shall register public user identities (see Table 0.3/1 and dependencies on that major capability).

5.1.1.2 Initial registration

The UE can register a public user identity at any time that a valid PDP context exists.

On sending a REGISTER request, the UE shall populate the header fields as follows:

- a) the user ID field of the authentication protocol, carried in the Authorization header, shall contain the private user identity. This shall be extracted from the USIM;
- b) the From header shall contain a public user identity of the subscriber. This can be extracted from the USIM, or may be input by the end user;
- c) the To header shall contain a public user identity of the subscriber. This can be extracted either from the USIM, or may be input by the end user;
- d) the Expires header, or the expires parameter within the Contact header, may contain any value desired for the duration of the registration.

NOTE: The registrar (S-CSCF) might adjust the duration of the registration in accordance with network policy.

The use of the Path header shall not be supported by the UE.

On receiving the 200 OK response to the REGISTER request, the UE shall store the expiration time of the registration.

5.1.1.3 Initial subscription to the registration-state event package

Upon receipt of a 2xx response to the initial registration, the UE shall subscribe to the users registration-state event package at the users registrar (S-CSCF). Therefore the UE shall generate a SUBSCRIBE request with the following elements:

- a Request URI set to the resource to which the UE wants to be subscribed to, i.e. to a SIP URL that contains the public user identity that was previously registered;
- a From header set to a SIP URL that contains the public user identity that was previously registered;
- a To header, set to a SIP URL that contains the public user identity that was previously registered;
- an Event header set to the “registration-state” event package;
- an Expires header set to a value higher than the Expires header of the before sent REGISTER request;

Afterwards it shall send out the so generated SUBSCRIBE request.

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

The UE shall automatically resubscribe to the users registration-state event package if the expiration time, as indicated in the Expires header of the 2xx response to the SUBSCRIBE message, has run out.

5.1.1.4 User-initiated re-registration

The UE can reregister a public user identity at any time. The UE shall reregister before the expiration time of a previous registration, unless either the user or the application within the UE has determined that a continued registration is not required.

On sending a REGISTER request, the UE shall populate the header fields as follows:

- a) the user ID field of the authentication protocol, carried in the Authorization header, shall contain the private user identity. This shall be extracted from the USIM;

- b) the From header shall contain a public user identity of the subscriber. This can be extracted from the USIM, or may be input by the end user;
- c) the To header shall contain a public user identity of the subscriber. This can be extracted either from the USIM, or may be input by the end user;
- d) the Expires header, or the expires parameter within the Contact header, may contain any value desired for the duration of the registration.

NOTE: The registrar (S-CSCF) might adjust the duration of the registration in accordance with network policy.

On receiving the 200 OK response to the REGISTER request, the UE shall store the new expiration time of the registration for this public user identity.

The use of the Path header shall not be supported by the UE.

5.1.1.5 Authentication

5.1.1.5.1 General

A UE shall respond to an authentication challenge that has been deemed invalid, i.e. the AUTN parameter in the challenge is incorrect, by indicating to the S-CSCF that the challenge has been rejected.

Editor's note: The details of how the UE signals this rejection is FFS.

A UE shall only respond to two consecutive invalid challenges. After this the UE shall consider itself to be de-registered.

Editor's note: Subsequent UE actions are FFS.

5.1.1.5.2 Initial authentication

Initial authentication is performed by the registration procedures as described in clause 5.1.1.2.

5.1.1.5.3 Re-authentication

Re-authentication is performed by the reregistration procedures as described in clause 5.1.1.4.

5.1.1.5.4 Network-initiated re-authentication

Upon receipt of a NOTIFY message on the dialog which was generated during subscription to the registration-state event package, which contains the registration state value "re-authenticate" for a public user identity, the UE shall start the re-authentication procedures as described in clause Editor's note: Some text for this clause is included in Annex B.

5.1.1.5.3.

5.1.1.6 Mobileinitiated deregistration

The UE can deregister a public user identity at any time.

On sending a REGISTER request, the UE shall populate the header fields as follows:

- a) the user ID field of the authentication protocol, carried in the Authorization header, shall contain the private user identity. This shall be extracted from the USIM;
- b) the From header shall contain a public user identity of the subscriber. This can be extracted from the USIM, or may be input from the end user;
- c) the To header shall contain a public user identity of the subscriber. This can be extracted either from the USIM, or may be input by the end user;

- d) the Expires header, or the expires parameter of the Contact header, shall contain a value of zero, appropriate to the deregistration requirements of the user.

On receiving the 200 OK response to the REGISTER request, the UE shall remove all registration details relating to this public user identity.

5.1.1.7 Network-initiated deregistration

Upon receipt of a NOTIFY message on the dialog which was generated during subscription to the registration-state event package as described in clause 5.1.2.1, which contains the registration state value “closed”, i.e. deregistered, for one or more public user identities that were previously stored as registered, the UE shall treat these public user identities as deregistered.

Editor's Note: The actions to be taken by the UE if all public user identities of one user have been deregistered are for further study, e.g. releasing signalling PDP context, information to the user, etc.

5.1.2 Subscription and notification

5.1.2.1 Notification about multiple registered public user identities

Upon receipt of a 2xx response to the SUBSCRIBE request the UE shall maintain the generated dialog (identified by the values of the Call-ID, To and From headers).

Upon receipt of a NOTIFY message on the dialog which was generated during subscription to the registration-state event package the UE shall perform the following actions:

- if a registration state value “open”, i.e. registered is received for one or more public user identities, the UE shall store the indicated public user identities as registered ;
- if a registration state value “closed”, i.e. deregistered is received for one or more public user identities, the UE shall store the indicated public user identities as deregistered.

NOTE: There may be public user identities which are automatically registered within the registrar (S-CSCF) of the user upon registration of one public user identity. Usually these automatically or implicitly registered public user identities belong to the same service profile of the user and they might not be available within the UE, i.e. the UE does not know that they have been registered. The here-described procedures provide a mechanism to inform the UE about these automatically registered public user identities.

Editor's Note: 5.1.2.2 is reserved for subscription and notification to future events

5.1.3 Call initiation - mobile originating case

Editor's Note: A more detailed description of the INVITE responses (183, 180, 200...) might be needed here.

5.1.3.1 Initial INVITE

3GPP terminals shall indicate the support for reliable provisional responses and specify it using the supported header mechanism.

5.1.3.2 PRACK

5.1.3.3 COMET

5.1.3.4 Re-INVITE

5.1.4 Call initiation - mobile terminating case

Editor's Note: A more detailed description of the INVITE responses (183, 180, 200...) might be needed here.

- 5.1.4.1 Initial INVITE
- 5.1.4.2 PRACK
- 5.1.4.3 COMET
- 5.1.4.4 Re-INVITE
- 5.1.5 Call release
 - 5.1.5.1 MO call release
 - 5.1.5.2 MT call release
- 5.1.6 Call-related information
 - 5.1.6.1 REFER
 - 5.1.6.2 INFO
- 5.1.7 Call-independent information
 - 5.1.7.1 OPTIONS

5.2 Procedures at the P-CSCF

5.2.1 General

The P-CSCF shall support use the Path header.

NOTE: The Path header is only applicable to the REGISTER request and its 200 OK response.

5.2.2 Registration

When the P-CSCF receives a REGISTER request from the UE that pertains to a given public user identity, the P-CSCF shall:

- insert a Path header in the request. The P-CSCF shall include in the Path header an entry containing the SIP URL identifying the P-CSCF;
- insert a Require header and a Proxy-Require header both containing the option tag "path";
- determine the I-CSCF of the home network and forward the request to that I-CSCF.

When the P-CSCF receives a 200 OK response to the above REGISTER request, the P-CSCF shall check the value of the Expires header field and/or Expires parameter in the Contact header. When the value of the Expires header field and/or expires parameter in the Contact header is different than zero, then the P-CSCF shall:

- 1) remove its SIP URL from the list of Path headers, reverses the order of the list and save the resulting list of Path headers. This list shall be stored during the entire registration period of the respective public user identity. This list shall be used to preload the routing information into the initial requests originated by the UE. If this registration is a re-registration, the P-CSCF shall replace the already existing Path headers with the new list;
- 2) associate the Path header information with the registered public user identity.

- 3) remove the list of Path headers and Path option tags from the 200 OK response before forwarding the response to the UE.

Editor's Note: The P-CSCF behavior when 3xx or 4xx responses are received is FFS.

Editor's Note: The text above assumes that public user identities are registered one by one. Public user identity might need to be changed to Service Profile in the case when public user identities can be implicitly registered.

NOTE: The P-CSCF will maintain two Route lists. The first Route list - created during the registration procedure - is used only to pre-load the routing information into the initial INVITE request that originated at the UE. This list is valid during the entire registration of the respective public user identity. The second Route list - constructed from the Record Route headers in the initial INVITE and associated response - is used during the duration of the call. Once the call is terminated, the second Route list is discarded.

5.2.3 Subscription to the users registration-state event package

Upon receipt of a 2xx response to the initial REGISTER request of an user, the P-CSCF shall subscribe to the users registration-state event package at the users registrar (S-CSCF). Therefore the P-CSCF shall generate a SUBSCRIBE request with the following elements:

- a Request URI set to the topmost entry of the path information that was obtained during the users registration;
- a From header set to a SIP URL that contains the P-CSCF's FQDN;
- a To header, set to a SIP URL that contains the public user identity that was previously registered;
- an Event header set to the "registration-state" event package;
- an Expires header set to a value higher than the Expires header of the before sent REGISTER request from the user;
- a Route header according to the path information that was obtained during the users registration. The S-CSCF shall set the last Route header entry to the resource to which it wants to subscribe to, i.e. to a SIP URL the public user identity that was previously registered.

Afterwards the P-CSCF shall send out the so generated SUBSCRIBE request.

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

5.2.4 Registration of multiple public identities

Upon receipt of a NOTIFY message on the dialog which was generated during subscription to the registration-state event package, the P-CSCF shall perform the following actions:

- if a registration state value "open", i.e. registered is received for one or more public user identities, the P-CSCF shall bind the indicated public user identities as registered to the contact information of the user;
- if a registration state value "closed", i.e. deregistered is received for one or more public user identities, the P-CSCF shall release all stored information for these public user identities.

NOTE: There may be public user identities which are automatically registered within the registrar (S-CSCF) of the user upon registration of one public user identity. These automatically registered public user identities belong to the same service profile of the user and they are not available at the P-CSCF, i.e. P-CSCF does not know that they have been registered. The here-described procedures provide a mechanism to inform the UE about these automatically registered public user identities.

5.2.5 Deregistration

5.2.5.1 User-initiated deregistration

When the P-CSCF receives a 200 OK response to a REGISTER request (sent according to clause 5.2.2), it shall check the value of the Expires header field and/or expires parameter in the Contact header field. When the value of the Expires header field or expires parameter equals zero, then the P-CSCF shall remove the public user identity found in the To header field from the registered public user identities list and all related stored information.

NOTE: There is no requirement to distinguish a REGISTER request relating to a registration from that relation to a deregistration. For administration reasons the P-CSCF may distinguish such requests, however this has no impact on the SIP procedures.

5.2.5.2 Network-initiated deregistration

If the P-CSCF has subscribed for the event providing registration state information of a certain public identity and an incoming NOTIFY request addressed to P-CSCF arrives containing information about network-initiated deregistration, then the P-CSCF shall remove the deregistered public identity from the registered public identities list and all related stored information.

Editor's note: The above text came from N1-011984, the text below from N1-011988. The two texts are attempting to specify the same thing. This conflict needs to be resolved in a future contribution.

Upon receipt of a NOTIFY message on the dialog which was generated during subscription to the registration-state event package as described in clause 5.2.3, which contains the registration state value "closed", i.e. deregistered, for one or more public user identities that were previously stored as registered, the P-CSCF shall release all stored information for that public user identity of that user.

If all public user identities that have been bound to one contact information are marked as deregistered, the P-CSCF shall release all resources for that specific user, i.e. the user then is treated as deregistered from the IM CN subsystem.

5.2.6 Subscription and notification

Editors Note: Further discussion is needed if the P-CSCF "looks into" the NOTIFY messages sent to the UE or subscribes itself.

5.2.6.1 Handling of SUBSCRIBE originated by the UE

When the P-CSCF receives a SUBSCRIBE request from the UE that does not pertain to an existing dialog and the Request-URI of the request does not point to the P-CSCF's network, the P-CSCF shall:

- select the list of Route headers that was created during the registration of the respective public user identity utilizing the Path mechanism;
- use the URI in the Request-URI header (i.e., destination) to construct a Route header, and append it to the bottom of the list of Route headers from the previous step;
- pre-load the list of Route headers from the previous steps;
- create a Record-Route header containing its own SIP URL.

When the P-CSCF receives a response (e.g. 200 OK, 202 Accepted) to the SUBSCRIBE request, the P-CSCF shall:

- remove the list of Record-Route headers from the received response and forward it to the UE.

5.2.6.2 Handling of SUBSCRIBE destined to the UE

When the P-CSCF receives a SUBSCRIBE request destined for the UE, prior to forwarding it, the P-CSCF shall:

- remove the list of Record-Route headers, and shall convert it into a list of Route headers. The Contact header shall not be appended to the bottom of the list of Route headers. The P-CSCF shall save this list of Route headers and append this list to all UE originated NOTIFY requests for this session;

- add itself on the top of the removed list of Record-Route headers and save the list. The list will be appended to UE originated response to the SUBSCRIBE request;
- remove and store the list of received Via headers from the received request and shall place its own address in the Via header with locally unique token to identify the saved values as a branch parameter . The P-CSCF shall append the list of Via headers to the UE originated response for this request.

When the P-CSCF receives the response (e.g. 200 OK, 202 Accepted) from the UE to the SUBSCRIBE request, the P-CSCF shall:

- append the saved list of Record-Route headers to the response;
- append the saved list of Via headers to the response.

5.2.6.3 Handling of NOTIFY destined to the UE

When the P-CSCF receives NOTIFY request destined for the UE that pertains to an existing dialog, prior to forwarding the request to the UE, the P-CSCF shall:

- remove and store the list of received Via headers from the received request and shall place its own address in the Via header with locally unique token to identify the saved values as a branch parameter . The P-CSCF shall append this list of Via headers to the UE originated response for this transaction.

When the P-CSCF receives the response from the UE to the NOTIFY request, the P-CSCF shall:

- append the saved list of Via headers to the response.

5.2.6.4 Handling of NOTIFY originated by the UE

When the P-CSCF receives a NOTIFY request from the UE, which belongs to an existing dialog, the P-CSCF shall:

- select the list of Route headers that was created during the exchange of the SUBSCRIBE request for this dialog;
- use the URI in the Request-URI header in the request to construct a Route header, and appends it to the bottom of the list of Route headers;
- append the list of Route headers to the request, and forwards the request utilizing the list of Route headers.

5.2.7 Initial INVITE

5.2.7.1 Determination MO or MT case

Editor's Note: It has to be discussed whether this section is needed or if the determination of MO/MT case at the P-CSCF shall be left implementation dependent.

5.2.7.2 Mobile-originating case

When the P-CSCF receives an INVITE request, which does not belong to an existing dialog, it shall:

- check whether a Path header list exists related to the initiator of the request. If not, it shall send a 403 Forbidden response back to the UE containing a warning header.

Editor's Note: how to find out whether the user has a valid registration in the P-CSCF is FFS.

Editor's Note: The correct value for the warning code is yet to be assigned by IANA.

- select the list of preloaded Route headers that was created during the registration of the respective public identity.
- use the URI in the Request-URI header (i.e., destination) in the initial INVITE request to construct a Route header, and append it to the bottom of the list of Route headers from the previous step. The appended URI may be a SIP URL or a tel-URL.
- pre-load the list of Route headers from the previous steps to the initial INVITE request.

- create a new list of Record-Route header containing its own SIP URL.

In addition, the P-CSCF shall respond to all INVITE requests with a 100 Trying response.

Upon receiving a response (e.g. 183 Session Progress, 200 OK) to the initial INVITE request, the P-CSCF:

- remove the list of Record-Route headers from the response.
- construct from the removed list of Record-Route headers a new list of Route headers. The Contact header received in the response shall not be appended to the bottom of the list of Route headers.

Editor's note: the case when the P-CSCF acts on behalf of the UE is FFS.

- insert the Media Authorization header containing the media authorization token generated by the PCF.

5.2.7.3 Mobile-terminating case

When the P-CSCF receive an initial INVITE request destined for the UE, it will contain the SIP URL of the P-CSCF in the Request-URI, and a single pre-loaded Route header. The received initial INVITE will also have a list of Record-Route headers. Prior to forwarding the initial INVITE, the P-CSCF shall:

- remove the list of Record-Route headers, and shall convert it into a list of Route headers. The P-CSCF shall leave intact the Contact header shall not append it to the bottom of the list of Route headers. This list of Route headers shall be saved and appended to all subsequent requests for this session originated by the UE.

Editor's note: the case when the P-CSCF acts on behalf of the UE is FFS.

- add itself on the top of the removed list of Record-Route headers, and save the list. The list will be appended to the response to the initial INVITE request originated at the UE.
- remove and store the list of received Via headers from the received request and shall place its own address in the Via header with a locally unique token to identify the saved values as a branch parameter. The P-CSCF shall append this list of Via headers to all UE-originated subsequent responses for this transaction.
- examine the media parameters and remove those, which are not allowed on the network by the local policy.
- insert the Media Authorization header containing the media authorization token generated by the PCF.

In addition, the P-CSCF shall respond to all INVITE requests with a 100 Trying response.

When the P-CSCF receives the response from the UE to the initial INVITE request, the P-CSCF shall:

- append the saved list of Record-Route headers to the response.
- append the saved list of Via headers to the response.

5.2.8 Call release

5.2.8.1 P-CSCF-initiated call release

5.2.8.2 Call release initiated by any other entity

When the P-CSCF receives a BYE request matching an existing dialog, it shall delete all the stored information related to the dialog.

5.2.9 Subsequent requests

5.2.9.1 Mobile-originating case

When the P-CSCF receives subsequent requests other than a refreshing request from the UE, which pertains to an existing dialog, the P-CSCF shall:

- select the list of Route headers that was created during the exchange of the initial request and associated response for this call.
- use the URI in the Request-URI header in the incoming request from the UE to construct a Route header, and append it to the bottom of the list of Route headers,
- append the list of Route headers to the request, and forward the request utilizing the list of Route headers.

When the P-CSCF receives a refreshing request from the UE, which belongs to an existing call, additionally to the previous steps, the P-CSCF shall:

- create a list of Record-Route containing its own SIP URL.

When the P-CSCF receives a response to the refreshing request, the P-CSCF shall:

- remove the list of Record-Route headers from the received response.
- overwrite the existing list of stored Route headers from the newly received list of Record-Route headers. The Contact header received in the response shall not be appended to the bottom of the stored list of Route headers.

5.2.9.2 Mobile-terminating case

Whenever the P-CSCF receives subsequent requests other than a refreshing request destined for the UE that pertains to an existing dialog, it will contain the SIP URL of the P-CSCF in the Request-URI, and a single Route header.

Prior to forwarding the request to the UE by moving the content of the Route header to the Request-URI, the P-CSCF shall:

- remove and store the list of received Via headers from the received request and shall place its own address including a branch parameter in the Via header before forwarding it to the UE. The P-CSCF shall append this list of Via headers to the UE originated response for this transaction.

When the P-CSCF receives a refreshing request destined for the UE that pertains to an existing dialog, prior to forwarding it to the UE, additionally to the previous step the P-CSCF shall:

- remove the list of Record-Route headers, and shall convert it into a list of Route headers. The Contact header received in the refreshing request shall not be appended to the bottom of the list of Route headers. The P-CSCF shall save this list of Route headers and append it to all subsequent requests for this dialog originated by the UE.
- add itself on the top of the removed list of Record-Route headers and save the list. This list will be appended to the response to the refreshing request that is generated by the UE.

When the P-CSCF receives the response from the UE to the subsequent request other than a refreshing request, the P-CSCF shall append the saved list of Via headers to the response.

When the P-CSCF receives the response from the UE to the re-INVITE subsequent request additionally to the previous step, the P-CSCF shall append the saved list of Record-Route headers.

5.2.10 Further initial requests

5.2.10.1 Mobile-originating case

When the P-CSCF receives an initial request from the UE, which does not pertain to an existing dialog, the P-CSCF shall:

- select the list of Route headers that was created during the registration of the respective public identity utilizing the Path mechanism;
- use the URI in the Request-URI header (i.e., destination) in the initial request to construct a Route header, and appends it to the bottom of the list of Route headers from the previous step;
- pre-load the list of Route headers from the previous steps to the initial request;

- create a Record-Route header containing its own SIP URL if the request initiates a dialog. If the request is known by the P-CSCF to only initiate a stand-alone transaction. (e.g. OPTIONS, MESSAGE, etc.) then the P-CSCF shall route the request without inserting Record-Route header into it. In this case the P-CSCF does not need to create any call state information based on these initial requests alone.

If a Record-Route header was inserted to the initial request by the P-CSCF, upon receiving a response to it, the P-CSCF shall:

- remove the list of Record-Route headers from the received response;
- construct from the removed list of Record-Route headers a new list of Route headers by reversing it and dropping the topmost item. The Contact header received in the response shall not be appended to the bottom of the list of Route headers. The P-CSCF shall save the list of Route headers and append it to all UE originated subsequent requests for this session.

5.2.10.2 Mobile-terminating case

When the P-CSCF receives an initial request destined for the UE, which does not pertain to an existing dialog, then:

- if the initial request contains a Record-Route header the P-CSCF shall convert it into a list of Route headers. The Contact header shall not be appended to the bottom of the list of Route headers. The P-CSCF shall save this list of Route headers and append the list to all subsequent requests for this session originated by the UE;
- if the request is known by the P-CSCF to only initiate a stand-alone transaction (e.g. OPTIONS, MESSAGE, etc.) it shall route the request without inserting Record-Route header into it. Otherwise the P-CSCF shall add itself on the top of the removed list of Record-Route headers and save the list. The list will be appended to the response to the initial request originated at the UE;
- the P-CSCF shall remove and store the list of received Via headers from the received request and shall place its own address in the Via header before forwarding it to the UE. The P-CSCF shall append this list of Via headers to the UE-originated response for this transaction.

When the P-CSCF receives the response from the UE to the initial request, then:

- if the initial request contained a Record-Route header, the P-CSCF shall append the saved list of Record-Route headers to the response;
- the P-CSCF shall append the saved list of Via headers to the response.

5.3 Procedures at the I-CSCF

5.3.1 Registration procedure

During the registration procedure the I-CSCF shall behave as a stateful proxy.

The use of the Path header shall be supported by the I-CSCF.

Editor's Note: If the I-CSCF receives a Path header without the "path" option tag in the Proxy-Require header, we have an error condition in the P-CSCF. The I-CSCF behavior for this scenario is FFS.

When I-CSCF receives a REGISTER request, the I-CSCF shall:

1. use the result of the Cx-query in order to determine the S-CSCF to which the request is forwarded to;
2. determine whether hiding is required or not.

If hiding is not required, then:

3. forward the request to the S-CSCF determined in 1.

If hiding is required then:

3. insert a resolveable identifier, (e.g. name) of the network as the topmost entry in the Path header;

4. forward the request to the S-CSCF selected in 1;
5. encrypt or tokenize the topmost entry in the Path header when 200 OK is received as a response to the REGISTER; and,
6. forward the 200 OK to the P-CSCF from where the related REGISTER was received.

Editor's note: The nature of the resolvable identifier in step 3 should be clarified within clause 4.

5.3.2 Transactions for sessions initiated by the UE

Editor's note: INVITE requires 3GPP specific handling (HSS query)

Editor's note: Responses follow standard SIP routing (Via)

When I-CSCF receives an initial request, it shall look for a Route header in the request.

NOTE 1: A REGISTER request does not contain a Route header when reaches I-CSCF. An initial INVITE request contains a Route header when reaches the originating I-CSCF (P-CSCF inserts the preloaded route). An initial INVITE request does not contain a Route header when reaches the terminating I-CSCF.

If there is a Route header, the I-CSCF shall proceed as described in clause 5.3.3. If there is no Route header, the I-CSCF shall analyse the Request-URI field and decrypt the header field if necessary.

NOTE 2: In some call transfer scenarios the Refer-To header is encrypted by I-CSCF/S-CSCF. When the call is transferred, the Refer-To header becomes the Request URI.

In the case that the I-CSCF can not route the request based on the domain part of the Request URI, the HSS will be consulted. On receipt of the Cx Location Response from the HSS, the I-CSCF shall forward the request to the location indicated by the Cx Location response.

When providing configuration hiding, the I-CSCF (THIG) shall Record-Route the initial INVITE of a dialog, and refresh requests (i.e. reINVITE).

5.3.3 THIG functionality in the I-CSCF(THIG)

The following procedures shall only be applied if topology hiding is required by the network. The network requiring topology hiding is called the hiding network.

NOTE 1: Requests and responses are handled independently therefore no state information is needed for that purpose within an I-CSCF(THIG).

All headers, such as Via, Route, Record-Route, Path, which reveal topology information of the hiding network shall be subject to topology hiding.

Upon receiving an outgoing request/response from the hiding network the I-CSCF(THIG) shall perform the encryption for topology hiding purposes, i.e. the I-CSCF(THIG):

- 1) shall use the whole header values which were added by one or more specific entity of the hiding network as input to encryption, besides the UE entry;

Editor's Note: How can the UE entry be found out? Is it ok to assume that it will always be the first entry?

- 2) shall not change the order of the headers subject to encryption when performing encryption;
- 3) shall use for one encrypted string all received consecutive header entries subject to encryption, regardless if they appear in separate consecutive headers or if they are consecutive entries in a comma separated list in one header;
- 4) shall add after the encrypted string a "tokenized-by=" tag, indicating the encrypting network as a parameter;
- 5) shall form one valid entry for the specific header out of the resulting string, e.g. add "SIP/2.0/UDP" for Via headers and "sip:" for Route and Record-Route headers.

NOTE 2: Even if consecutive entries of the same network in a specific header are encrypted, they will result in only one encrypted header entry. For example:


```
Via: SIP/2.0/UDP icscf1_s.home1.net,
      SIP/2.0/UDP Token( SIP/2.0/UDP scscf1.home1.net,
                        SIP/2.0/UDP pcscf1.home1.net );tokenized-by=home1.net,
      SIP/2.0/UDP [5555::aaa:bbb:ccc:ddd]
```

NOTE 3: If multiple entries of the same network are within the same type of headers, but they are not consecutive, then these entries will be tokenized to different strings. For example

```
Route: sip:icscf1_s.home1.net,
       sip:Token(sip:scscf1.home1.net);tokenized-by=home1.net,
       sip:as1.foreign.net,
       sip:Token(sip:scscf1.home1.net,
                sip:pcscf1.home1.net);tokenized-by=home1.net,
       sip:[5555::aaa:bbb:ccc:ddd]
```

Upon receiving and incoming requests/response to the hiding network the I-CSCF(THIG) shall perform the decryption for topology hiding purposes, i.e. it:

- 1) shall identify encrypted strings within all headers of the incoming message;
- 2) shall use all those encrypted strings that carry the identification of the hiding network within the value of the tokenized-by tag as input to decryption;
- 3) shall use as encrypted string the data between the sent-protocol (for Via Headers, e.g. "SIP/2.0/UDP") or the URI scheme (for Route and Record-Route Headers, e.g. "sip:") and the tokenized-by tag;
- 4) shall replace all content of the received header which carries encrypted information with the entries resulting from decryption.

EXAMPLE: An encrypted entry to a Via header that looks like

```
Via: SIP/2.0/UDP Token(SIP/1.0/UDP scscf1.home1.net,
                     SIP/1.0/UDP pcscf1.home1.net);tokenized-by=home1.net
```

will be replaced with the following entries:

```
Via: SIP/1.0/UDP scscf1.home1.net, SIP/1.0/UDP pcscf1.home1.net
```

NOTE 4: Motivations for these decryption procedures are e.g. to allow the correct routing of a response through the hiding network, to enable loop avoidance within the hiding network, or to allow the entities of the hiding network to change their entries within e.g. the Record-Route header.

5.4 Procedures at the S-CSCF

5.4.1 Registration and authentication

5.4.1.1 Introduction

The S-CSCF shall act as the SIP registrar for all UAs of the IM CN subsystem with public user identities, (see Table A.122/2 and other capabilities in Annex A dependent on that major capability).

The S-CSCF shall support the use of the Path header. The S-CSCF must also support the Require and Proxy-Require headers. The Path header is only applicable to the REGISTER request and its 200-OK response.

The network operator defines minimum and maximum times for each registration. These values are provided within the S-CSCF.

The procedures for notification concerning automatically registered public user identities of a user are described in clause 5.4.2.1.2

5.4.1.2 Initial registration and user-initiated reregistration

When the S-CSCF receives a REGISTER request, the S-CSCF shall verify that the "path" option tag is contained in the Proxy-Require header. If the "path" option tag is present, the S-CSCF shall store the information contained in the Path header so that it can be used for mobile terminated requests.

Editor's Note: If the S-CSCF receives a Path header without the "path" option tag in the Proxy-Require header, we have an error condition in the I-CSCF. The I-CSCF behavior for this scenario is FFS.

The S-CSCF shall:

- check the existence of a Path header in the request;

Editor's note: The action S-CSCF has to take when a Path header is not present in the request is FFS.

- when a Path header exists in the request, insert its own FQDN, or IP address, in the form of SIP URL at the top of the list found in the Path header saved from the REGISTER request;
- construct a list of preloaded Route headers from the list of entries in the Path header. The order in the lists is preserved;
- include an expiration time in the 200 OK response, using the values provided within the S-CSCF, according to the local policy of the network;
- save the list of preloaded Route headers for the entire duration of the registration;

NOTE 1: If this registration is a reregistration, then a list of pre-loaded Route headers will already exist. The new list replaces the old list.

- bind to each individual public user identity all contact information under which the public user identity has been registered (either manually by means of a REGISTER message or automatically upon the registration of another public user identity);

NOTE 2: There might be more than one contact information available for one public user identity.

- bind to each contact information the respective Path header entries, that were received in the same REGISTER message as that contact information;
- add its Path header on the top of the received list of Path headers, and returns this list in the 200 OK response.

5.4.1.3 User-initiated deregistration

When the S-CSCF receives a REGISTER request, it shall verify that the "path" option tag is contained in the Proxy-Require header. If the "path" option tag is present, the S-CSCF shall store the information contained in the Path header so that it can be used for mobile terminated requests.

Editor's Note: If the S-CSCF receives a Path header without the "path" option tag in the Proxy-Require header, we have an error condition in the I-CSCF. The I-CSCF behavior for this scenario is FFS.

When S-CSCF receives a REGISTER request with the Expires header field containing the value zero, the S-CSCF shall:

- deregister the subscriber and remove all related stored information;
- insert its own FQDN or IP address in the form of SIP URL at the top of the list found in the Path header saved from the REGISTER request;
- add its Path header on the top of the received list of Path headers, and returns this list in the 200 OK response.

5.4.1.4 Network-initiated deregistration

When a network-initiated deregistration event occurs for a public user identity, and the UE has subscribed for that event, the S-CSCF shall generate a NOTIFY request in order to inform the UE of the network-initiated deregistration event for that public user identity. The S-CSCF shall set the event header to the name of the event package, which provides information about the registration state of the UE.

When a network-initiated deregistration event occurs for a public user identity, and the P-CSCF has subscribed for registration events for that public user identity, the S-CSCF shall generate a NOTIFY request in order to inform the P-CSCF of the network initiated deregistration event for that public user identity. The S-CSCF shall set the event header to the name of the event package, which provides information about the registration state of the UE.

If the network-initiated deregistration is for a set of public user identities associated with the subscriber, the NOTIFY shall send the registration state of all public user identities of the subscriber.

Editor's note: The possible values of the event header are: presence, registration-state, a new subpackage of presence.

5.4.1.5 Network-initiated reauthentication

The S-CSCF may request a subscriber to reauthenticate at any time, based on a number of possible operator settable triggers, by sending an authentication challenge.

Editor's note: This paragraph requires expansion to specify the meaning of "an authentication challenge" either in terms a reference to other documents or within this document.

In the case that the response from the UE contains the correct response to the challenge, the S-CSCF shall restart any timers/counters/event monitors etc. that trigger reauthentication.

In the case that the response from the UE is incorrect (e.g. the response to the challenge is not correct) the S-CSCF shall either:

- attempt a further authentication challenge; or
- deregister the user and terminate any ongoing sessions for all public user identities associated with the private user identity being authenticated, and release resources allocated to those sessions.

In the case that the response from the UE is incorrect three consecutive attempts then the S-CSCF shall deregister the user and terminate any ongoing sessions for all public user identities associated with the private user identity being authenticated, and release resources allocated to those sessions.

In the case that the S-CSCF determines that no response will be received from the UE (e.g. it may be unreachable due to loss of radio coverage), the S-CSCF shall either:

- attempt a further authentication challenge; or
- deregister the user and terminate any ongoing sessions for all public user identities associated with the private user identity being authenticated, and release resources allocated to those sessions.

In the case that there is no response from the UE for three consecutive attempts then the S-CSCF shall deregister the user and terminate any ongoing sessions or all public user identities associated with the private user identity being authenticated, and release resources allocated to those sessions.

5.4.2 Subscription and notification

Editors Note: This should be handled in a generic way

5.4.2.1 Subscriptions to S-CSCF events

5.4.2.1.1 Subscription to the registration-state event package

When an incoming SUBSCRIBE request addressed to S-CSCF arrives containing the Event header with the registration-state event package, the S-CSCF shall:

either generate a 202 Accepted or a 200 OK response acknowledging the SUBSCRIBE request indicating that the subscription was successful, with an:Expires header which either contains the same or a decreased value as the Expires in SUBSCRIBE request and a Contact header which is an identifier generated within the S-CSCF that will help to correlate refreshes for the SUBSCRIBE.

Editor's note: Authorization needs to be applied before subscribing for the event providing information about the registration state. This is FFS.

Afterwards the S-CSCF shall perform the procedures for notification about registration state as described in clause 5.4.2.1.2.

5.4.2.1.2 Notification about registration state

If the registration state of one or more public user identities changes, the S-CSCF shall generate a NOTIFY request on all dialogs which have been established due to subscription to the registration-state event package of that user. For each NOTIFY request, the S-CSCF shall:

- set the Request URI and Route header to the saved route information during subscription;
- set the Event header to the “registration-state” value;
- indicate registration state “open” for all public user identities which are currently registered;
- indicate registration state “closed” for all public user identities which are currently deregistered;
- indicate within the “<detail>” information of those public user identities which will be automatically re-registered the “autoamtically by” information, followed by the specific public identity which will cover the re-registration.

EXAMPLE: If sip:user1_public1@home1.net is re-registered, the public identity sip:user1_public2@home1.net was automatically be registered. Therefore the entries in the body of the NOTIFY message look like:

```
<tuple name="sip:user1_public1@home1.net">
  <status><value>open</value></status>
</tuple>

<tuple name="sip:user1_public2@home1.net">
  <status> <value>open</value> </status>
  <detail>automatically by sip:user1_public1@home1.net</detail>
</tuple>
```

Afterwards the S-CSCF shall send the generated NOTIFY request on the dialog and await a 2xx response.

5.4.2.2 Proxy behaviour for SUBSCRIBE / NOTIFY

5.4.3 Call initiation

5.4.3.1 Initial INVITE

Editor's Note: An issue that needs to be resolved before making this section normative is how the standard SIP behavior (specified in the RFC) and included in this exceptions section is referenced to insure consistent implementations.

5.4.3.1.1 Determination of served user

5.4.3.1.2 Mobile-originating case

When the originating S-CSCF receives an initial INVITE request, it will contain S-CSCF's SIP URL in the Request-URI, and a Route header. The URI in the Route header is the dialled destination. This URI may be a SIP URL or a tel-URL. The received initial INVITE will also have a list of Record-Route headers. Before forwarding the initial INVITE to the remote termination, the S-CSCF:

If the URI is a TEL-URL, then the S-CSCF shall translate the E.164 address contained in the Route header in the “tel:” format (see RFC 2806 [16]) to a SIP routable SIP URL using an ENUM/DNS translation mechanism with the format as specified in RFC 2916 [17]. Databases aspects of ENUM are outside the scope of 3GPP.

If this translation fails, then the session may be forwarded to a BGCF or any other appropriate entity (e.g a MRF to play an announcement) in the originator's home network or an appropriate SIP response shall be sent to the originator.

Editor's Note: It is FFS to decide on the appropriate notification sent to the originator e.p play an announcement or send a SIP message to the originator in case the session is not forwarded to the BGCF.

- removes the single Route header (dialled destination) from the received initial INVITE, processes the dialled destination URI (e.g. DNS access), and inserts the result into the Request-URI.

- replaces the Contact header in the received INVITE with a locally defined value.
- adds its Record-Route header to the list of Record-Route headers.

Editor's Note: The mechanism for hiding (encrypting) and handling the Record-Route headers in S-CSCF has to be determined.

Prior to forwarding the response to the initial INVITE, the S-CSCF:

Editor's Note: The handling of the Record-Route headers and construction of the list of Route headers in S-CSCF has to be determined.

- ...

5.4.3.1.3 Mobile-terminating case

When the S-CSCF receive an initial INVITE request destined for the UA identified with its called public user identifier it:

Editor's Note: It has to be determined which entity (P-CSCF, S-CSCF) will construct the list of Route headers (from the Record-Route headers in the initial INVITE) that will be appended to subsequent requests that originate at the UE.

- selects the list of Route headers that was created during the registration of called public user identity, remove the top Route header from the list and insert it in the Request-URI, and pre-loads the remaining Route headers to the INVITE request.

Editor's Note: It has to be determined if the list of Route headers (created during the registration) should contain the Contact header, or the received called public user identity is appended to the list of Route headers.

- adds its Record-Route header to the list of Record-Route headers.

Editor's Note: The handling of the list of Record-Route header in S-CSCF has to be determined.

When the S-CSCF receives the response to the initial INVITE request, it will:

Editor's Note: The handling the list of Record-Route header in S-CSCF has to be determined.

- removes and save the Contact header included in the response, and replaces it with a locally defined value prior to returning the response.

Editor's Note: The handling the list of Record-Route header in S-CSCF has to be determined.

5.4.3.2 Subsequent requests

Editor's Note: PRACK and COMET can be handled in a generic way.

5.4.4 Call release

5.4.4.1 User-initiated call release

5.4.4.2 P-CSCF-initiated call release

Editor's Note: This is a requirement from 23.228 and needs further discussion.

5.4.4.3 S-CSCF-initiated call release

Editor's Note: Application Server initiated Call Release needs further investigation.

5.4.5 Call- Related related requests

5.4.5.1 Re-INVITE

5.4.5.1.1 Determination of served user

5.4.5.1.2 Mobile-originating case

5.4.5.1.3 Mobile-terminating case

5.4.5.2 REFER

5.4.5.2.1 Mobile-originating case

5.4.5.2.2 Mobile-terminating case

5.4.5.2.3 REFER initiating a new session

5.4.5.2.4 REFER replacing an existing session

5.4.5.3 INFO

Editor's Note: It has to be determined which of these requests can be handled in a generic way.

5.4.6 Further initial requests

Editor's Note: Generic handling of e.g. OPTIONS should be described here

The S-CSCF shall Record-Route requests that are the initial request of a dialog.

5.5 Procedures at the MGCF

5.5.1 General

The MGCF, although acting as a UA, does not initiate any registration of its associated addresses. These are assumed to be known by peer-to-peer arrangements within the IM CN subsystem. Therefore the dependencies of Table 0.3/1 and Table 0.3/2 shall not apply.

The use of the Path header shall not be supported by the MGCF.

5.5.2 Subscription and notification

Editors Note: This should be handled in a generic way.

- 5.5.2.1 Subscriptions to MGCF events
- 5.5.2.2 Gateway behaviour for SUBSCRIBE / NOTIFY
- 5.5.3 Call initiation
 - 5.5.3.1 Initial INVITE
 - 5.5.3.1.1 PSTN-originating case
 - 5.5.3.1.2 PSTN-terminating case
 - 5.5.3.2 Subsequent requests

Editor's Note: PRACK and COMET can be handled in a generic way.

5.5.4 Call release

- 5.5.4.1 PSTN-initiated call release
- 5.5.4.2 S-CSCF-initiated call release

5.5.5 Call-related requests

- 5.5.5.1 Re-INVITE
 - 5.5.5.1.1 PSTN-originating case
 - 5.5.5.1.2 PSTN-terminating case
- 5.5.5.2 REFER
 - 5.5.5.2.1 PSTN-originating case
 - 5.5.5.2.2 PSTN-terminating case
 - 5.5.5.2.3 REFER initiating a new session
 - 5.5.5.2.4 REFER replacing an existing session
- 5.5.5.3 INFO

Editor's Note: It has to be determined which of these requests can be handled in a generic way.

5.5.6 Further initial requests

Editor's Note: Generic handling of e.g. OPTIONS should be described here

5.6 Procedures at the BGCF

5.6.1 General

The use of the Path header shall not be supported by the BGCF.

5.6.2 Session-initiation transaction

When the BGCF receives an INVITE request, the BGCF shall forward the request either to an MGCF within its own network, or to another network containing an MGCF. The BGCF need not Record-Route the INVITE request.

NOTE: The means by which the decision is made to forward to an MGCF or to another network is outside the scope of this specification, but may be by means of a lookup to an external database, or may be by data held internally to the BGCF.

5.7 Procedures at the Application Server (AS)

NOTE: This clause defines only the requirements on the application server that relate to SIP. Other requirements are defined in 3GPP TS 23.218.

5.7.1 Application Server (AS) acting as terminating UA, or redirect server

Editor's note: This clause should be structured according to any agreements for the structure for the MGCF.

5.7.2 Application Server (AS) acting as originating UA

Editor's note: This clause should be structured according to any agreements for the structure for the MGCF.

5.7.3 Application Server (AS) acting as a SIP proxy

Editor's note: This clause should be structured according to any agreements for the structure for the BGCF.

5.7.4 Application Server (AS) performing 3rd party call control

Editor's note: This clause should be structured according to any agreements for the structure for the MGCF.

5.8 Procedures at the MRFC

5.8.1 General

5.8.2 Call initiation

5.8.2.1 Initial INVITE

5.8.2.1.1 MRFC-terminating case

5.8.2.1.2 MRFC-originating case

5.8.2.2 Subsequent requests

Editor's Note: PRACK and COMET can be handled in a generic way.

5.8.3 Call release

5.8.3.1 S-CSCF-initiated call release

5.8.3.2 MRFC-initiated call release

5.8.4 Call-related requests

5.8.4.1 Re-INVITE

5.8.4.1.1 MRFC-terminating case

5.8.4.1.2 MRFC-originating case

5.8.4.2 REFER

5.8.4.2.1 MRFC-terminating case

5.8.4.2.2 MRFC-originating case

5.8.4.2.3 REFER initiating a new session

5.8.4.2.4 REFER replacing an existing session

5.8.4.3 INFO

Editor's Note: It has to be determined which of these requests can be handled in a generic way.

5.8.5 Further initial requests

Editor's Note: Generic handling of e.g. OPTIONS should be described here

6 Application usage of SDP

6.1 Procedures at the UE

Usage of SDP by the UE:

1. An INVITE request generated by a UE may contain SDP payload. In case preconditions will be used for session setup then SDP payload shall be present. The SDP payload shall reflect the UE#1's terminal capabilities and user preferences for the session.

Editor's Note: The requirements for SDP payload in the case of Optimised Voice Mode are FFS.

2. The first 183 provisional response sent out shall contain SDP information. The SDP payload shall reflect UE#2's terminal capabilities and user preferences.

Editor's Note: The case/action_needed when a UE generates a 183 response without SDP payload is FFS.

3. When UE sends out an 183 with SDP payload, it shall indicate the support for preconditions and in addition request confirmation for the result of the resource reservation at the originating end point.

4. UE shall include SDP in PRACK for 183 if the codec negotiation during INVITE and 183 resulted in more than one codec per media line. It is recommended not to include any SDP payload if the SDP payload in 183 contains only one codec information for each media line.
5. After the initial SDP has been sent the subsequent SDPs sent by the UE shall only contain a subset of the media descriptions of the initial SDP. In order to modify the media descriptors a Re-INVITE shall be used.
6. If Resource Reservation has been finished before sending the 200 OK for INVITE, then it shall contain the SDP payload that reflects the reserved resources on the radio interface.
7. During session establishment procedure, SIP messages shall only contain SDP payload if that is intended to modify the session description.

6.2 Procedures at the P-CSCF

When the P-CSCF receives an INVITE or reINVITE, the P-CSCF shall examine the media parameters and remove those which are not allowed on the network by local policy.

6.3 Procedures at the S-CSCF

6.4 Procedures at the MGCF

6.5 Procedures at the MRFC

7.2 SIP headers defined within this specification

7.2.1 Path header

7.2.1.1 Introduction

Path header is a mechanism whereby a P-CSCF, I-CSCFs, and S-CSCF can request to be on a signalling path for the initial INVITE exchanged between the UE and the S-CSCF. The path-establishment procedure is originated by the P-CSCF during the registration process. The procedure is performed during the initial registration of each public identity and all subsequent re-registrations. The list of Path headers obtained by a re-registration overwrites the existing list of Path headers at the S-CSCF. Each re-registration of the same public identity may result in new list of Path headers. The P-CSCF uses the list of Path headers to construct a list of Route headers. When initiating a call pertaining to a given public identity, the list of Route headers will be pre-loaded into the initial INVITE request. If a CSCF wants to receive subsequent requests, it will insert its own name to the Record Route header of the initial INVITE request. Once on the route, a CSCF remains on the route for the duration of the call. The path learned while re-registering during an active call does not affect the existing call, since the routing path for the respective call has already been established. The list of Path headers is not forwarded to the UE.

7.2.1.2 Syntax

The Path header field has the syntax described in table 6.1

Table 7.1: Syntax of path header

```
Path = "Path" ":" 1#(name-addr *(";"rr-param))
rr-param = generic-param
```

7.2.1.3 Operation

The operation of this header is described in clause 5.

7.3 Option tags defined within this specification

7.3.1 Path option tag

A new option tag “path” is added to the list of option tags allowed for both Require and Proxy-Require headers.

The operation of this option tag is described in clause 5.

8 SIP compression

8.1 SIP compression procedures at the UE

8.1.1 SIP compression algorithm negotiation

Editors Note: The point at which SIP compression algorithm negotiation takes place after gaining IP connectivity and the mechanisms for delivering the list of UE supported SIP compression algorithms and for informing the UE of the selected algorithm are FFS.

The UE shall send to the P-CSCF the request to perform SIP compression and the possible attributes related to the SIP compression, which is requested. If SIP compression is enabled at the P-CSCF then the P-CSCF shall inform the UE that SIP compression is to apply, and the attributes of the SIP compression to be applied. If SIP compression cannot be applied at the P-CSCF then the P-CSCF shall inform the UE that compression shall not be used.. At a minimum the UE shall support the SIP compression attributes specified in [ref to RFC XXXX].

Editors Note: The current IETF working assumption for SIP compression RFC is draft-rosenberg-rohc-sip-udpcomp-00.txt

8.1.2 Compression of SIP requests and responses transmitted to the P-CSCF

If SIP compression is enabled at the P-CSCF then the UE shall compress the SIP and SDP information according to the SIP compression attributes selected by the procedure in clause 8.1.1.

8.1.3 Decompression of SIP requests and responses received from the P-CSCF

If SIP compression is enabled at the P-CSCF then the UE shall decompress the SIP and SDP information according to the SIP compression attributes selected by the procedure in clause 8.1.1.

8.2 SIP compression procedures at the P-CSCF

8.2.1 SIP compression algorithm negotiation

Editors Note: The point at which SIP compression algorithm negotiation takes place after gaining IP connectivity and the mechanisms for delivering the list of UE supported SIP compression algorithms and for informing the UE of the selected algorithm are FFS.

When the P-CSCF receives the request to perform SIP compression and the compression attributes to apply, it shall evaluate whether the SIP compression can be applied. If the SIP compression can be applied, the P-CSCF shall inform the UE that SIP compression shall be applied, and it shall inform the UE of the SIP compression attributes to apply. If

SIP compression cannot be applied, then the P-CSCF shall inform the UE that SIP compression shall not be applied. If SIP compression is supported the P-CSCF shall support the default SIP compression attributes specified in [ref to RFC XXXX].

Editors Note: The current IETF working assumption for SIP compression RFC is draft-rosenberg-rohc-sip-udpcomp-00.txt

8.2.2 Compression of SIP requests and responses transmitted to the UE

If SIP compression is to be applied for the SIP communication between the UE and the P-CSCF, the P-CSCF shall compress the SIP and SDP requests and responses according to the SIP compression attributes selected for that particular UE by the procedure in clause 7.2.1.

8.2.3 Decompression of SIP requests and responses received from the UE

If SIP compression is to be applied for the SIP communication between the UE and the P-CSCF, the P-CSCF shall decompress the SIP and SDP information according to the SIP compression attributes selected for that particular UE by the procedure in clause 8.2.1.

Annex C (informative – to be deleted from document before publishing):

Working assumptions on user identification within IMS entities

Editor's Note: This Annex has to be deleted from the document before 24.229 is published.

C.1 At any SIP entity how do we identify a call leg?

By means of From (including tags), To (including tags) and Call-ID headers

A session consists of multiple call legs.

C.2 Is there a need for end-to-end identification of a session?

This question was left open.

Functions like a traceroute (tracing a call end-to-end) might cause problems.

An S-CSCF might wish to recognize calls which come back to it from an AS which is acting as a B2BUA (e.g. in order to know which filter criteria have been already applied to the call and which are not).

C.3 At the P-CSCF, how do we identify which list to use as a pre-loaded route (path)?

Mobile Originated:

At the P-CSCF1 use Remote-Party-ID if it is there, else use From header and if that is not useful (e.g. anonymous) send 4xx response.

Note: RFC2543bis04 – chapter 16 – shows J.Rosenbergs proposal how to add/change record-route headers in order to find out if a incoming request comes from the originating or the terminating side (see also Lucent contribution on this subject).

Mobile Terminated:

The “Gateway” I-CSCF determines the responsible S-CSCF based on a Cx-Query to the HSS with the public-user ID as received in the request uri of the INVITE from the Home Network of the originating user.

The S-CSCF loads the route (constructed from path stored at registration time) to the P-CSCF based on Public-ID of the B-user (which can be found in the Route header).

The P-CSCF determines the Contact / IP-addr of the user based on the Public-ID (based on binding at registration time) of the B-user (which can be found in the Route header).

C.4 At the S-CSCF, how do we identify which pre-authenticated user an incoming session relates to? This may be calling or called user.

MOC:

At the S-CSCF1 use Remote-Party-ID if it is there, else use From header and if that is not useful send 4xx response (same as for P-CSCF in MOC).

MTC:

The S-CSCF loads the route (constructed from path constructed during registration) to the P-CSCF based on Public-ID of the B-user (which can be found in the Route header).

C.5 At the remote user, how do we identify the dial back number for the calling user?

1. What can be displayed as the A party identification at the B party?
 - no privacy: use RPI if there, else use From
 - privacy: anonymous
2. Which URI is used as the callback URI for party A at the User B?
 - no privacy: use RPI if there, else use From
 - privacy: not possible for a normal user B
3. Which URI is used as the callback URI for Party A in the S-CSCF / AS providing e.g. malicious caller -> this is a service, depending on regulatory rules
 - no privacy: use RPI if there, else use From
 - privacy: use RPI

C.6 At an emergency call centre (PSAP), how do we identify the caller?

Proposal: do not define this now, as there are discussions ongoing in SA2. We assume the following:

- RPI shall always be delivered to a PSAP.
- If no RPI is available, the PSAP shall use the From data.

C.7 How does the user prevent the release of any of the identities provided to the remote user?

This is stated in the privacy draft. Don't include legitimate ID in the From field.

We currently see no possibility to hide the public-ID that is dialled by user A, as it is the main thing for user identification all along the route to the P-CSCF of the visited2.net.

The P-CSCF strips all routing information from the message, so user B cannot determine in which visited network user A is located from the SIP message.

C.8 Which identities have a guarantee of integrity provided by the network and how do we verify any of these identities (if required) within the network.

Editor's Note: (to be verified with SA3) It is assumed that since the entire message is integrity protected, all headers in the message are integrity protected. It is also assumed that the public-ID, that is used in the message, is the one that was registered before (this includes automatically registered public-IDs).

C.9 Is the network allowed to apply privacy to an INVITE for which the user did not request privacy.

Yes.

If the network / AS can really act as a B2BUA then it would be ok.

C.10 Further Changes agreed but yet not implemented in 24.228

From tdoc N1-011158: From and To headers in the call flows of 24.228 shall not be shown as encrypted, as long as this is not needed due to a request for privacy for the call.

Annex D (informative): Change history

It is usual to include an annex (usually the final annex of the document) for specifications under TSG change control which details the change history of the specification using a table as follows:

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
					Version 0.0.0 Editor's internal draft		
					Version 0.0.1 Editor's internal draft		
					Version 0.0.2 Editor's internal draft		
		N1-001060			Version 0.0.3 Submitted to CN1 SIP adhoc #1		
19/10/00		N1-001109			Version 0.0.4 Reflecting results of initial CN1 discussion		
19/10/00		N1-001115			Version 0.0.5 Reflecting output of CN1 SIP adhoc#1 discussion		
09/11/00					Version 0.0.6 Revision to include latest template and styles		
		N1-010092			Version 0.0.7 Reflecting updates of some IETF drafts		
14/02/01		N1-010269			Version 0.0.8 Revision to include temporary annex B incorporating valuable source material		
18/03/01		N1-010378 rev			Version 0.1.0 incorporating results of CN1 discussion at CN1 #16		
12/04/01		N1-010737			Version 0.2.0 incorporating results of CN1 discussions at SIP adhoc #4		
11/06/01		N1-010935			Version 0.3.0 incorporating results of CN1 discussions at CN1 #16		
23/07/01		N1-011103			Version 0.4.0 incorporating results of CN1 discussions at CN1 #18 (agreed documents N1-011028, N1-011050, N1-011055, N1-011056)		
12/09/01		N1-011385			Version 0.5.0 incorporating results of CN1 discussions at CN1 #19 (agreed documents N1-011109, N1-011152, N1-011195, N1-011312, N1-011319, N1-011343)		
04/10/01		N1-011470			Version 0.6.0 incorporating results of CN1 discussions at CN1 #19bis (agreed documents N1-011346, N1-011373, N1-011389, N1-011390, N1-011392, N1-011393, N1-011394, N1-011408, N1-011410, N1-011426)		
19/10/01		N1-011643			Version 0.7.0 incorporating results of CN1 discussions at CN1 #20 (agreed documents N1-011477, N1-011479, N1-011498, N1-011523, N1-011548, N1-011585, N1-011586, N1-011592, N1-011611, N1-011629)		
16/11/01		N1-011821			Version 0.8.0 incorporating results of CN1 discussions at CN1 #20bis (agreed documents N1-011685, N1-011690, N1-011741, N1-011743, N1-011759, N1-011760, N1-011761, N1-011765c, N1-011767, N1-011769, N1-011770, N1-011771, N1-011774, N1-011777, N1-011779, N1-011780) N1-011712 was agreed but determined to have no impact on the specification at this time.		
30/11/01		N1-011xxx			Version 1.0.0 incorporating results of CN1 discussions at CN1 #21 (agreed documents N1-011828, N1-011829, N1-011836, N1-011899 [revision marks not used on moved text - additional change from chairman's report incorporated], implementation of clause 3.1 editor's note based on discussion of N1-011900 [chairman's report], N1-011905, N1-011984, N1-011985, N1-011986, N1-011988, N1-011989, N1-012012 [excluding points 2 and 16], N1-012013, N1-012014 [excluding point 1], N1-012015, N1-012021, N1-012022, N1-012025, N1-012031, N1-012045, N1-012056, N1-012057) CN1 agreed for presentation for information to CN plenary.		