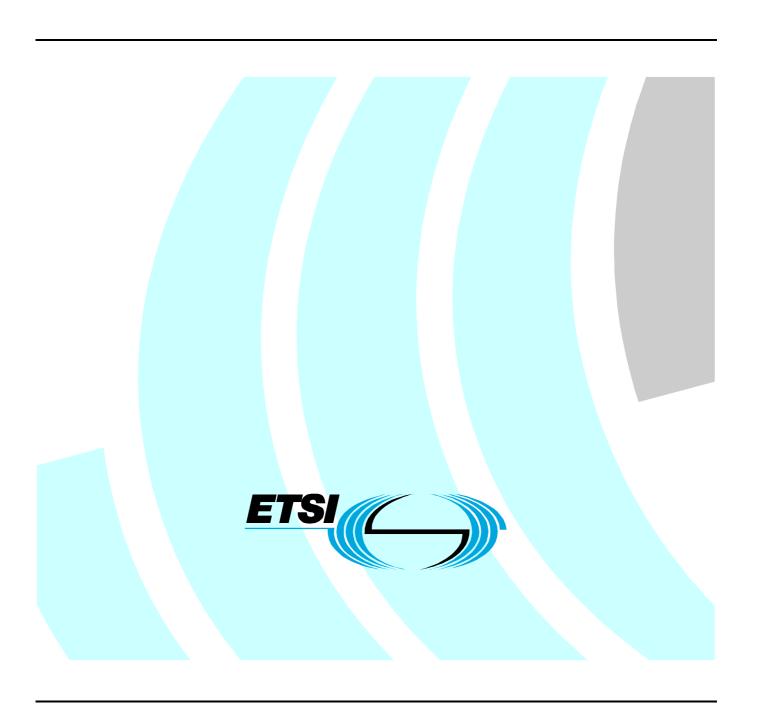
ETSITS 102 027-1 V4.1.1 (2006-07)

Technical Specification

Methods for Testing and Specification (MTS); Conformance Test Specification for SIP (IETF RFC 3261); Part 1: Protocol Implementation Conformance Statement (PICS) proforma



Reference

RTS/MTS-00097-1[2]

Keywords

IP, PICS, SIP, telephony, testing, VoIP

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from: <u>http://www.etsi.org</u>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: http://portal.etsi.org/chaircor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2006. All rights reserved.

DECTTM, **PLUGTESTS**TM and **UMTS**TM are Trade Marks of ETSI registered for the benefit of its Members. **TIPHON**TM and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members. **3GPP**TM is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

Contents

Intelle	ectual Property Rights	7
Forew	word	7
Introd	duction	7
1	Scope	8
2	References	8
3	Definitions and abbreviations	9
3.1	Definitions	9
3.2	Abbreviations	9
4	Conformance requirement	9
5	Guidance for completing the PICS proforma	10
5.1	Purposes and structure	
5.2	Abbreviations and conventions	
Anne	ex A (normative): PICS Proforma for RFC 3261	12
A.1	Instructions for completing the PICS proforma	12
A.2	Identification of the implementation	12
A.2.1	Date of the statement	
A.2.2	Implementation Under Test (IUT) identification	
A.2.3	System Under Test (SUT) identification	
A.2.4	Product supplier	
A.2.5	Client (if different from product supplier)	13
A.2.6	PICS contact person	14
A.3	Identification of the protocol	14
A.4	Global statement of conformance	14
A.5	General	15
A.5.1	Logical SIP entities	
A.6	User Agent	15
A.6.1	Services	15
A.6.2	Registration service	15
A.6.2.		
A.6.2.		
A.6.2.		
A.6.2.	e i	
A.6.2.	1	
A.6.2.	1 1	
A.6.2.	1 1	
A.6.2 A.6.2		
A.6.2.		
A.6.2.	1	
A.6.2.		
A.6.2		
A.6.2.		
A.6.2.		
A.6.3	Call Control service	
A.6.3.		
A.6.3.	1	
A.6.3.	· · · · · · · · · · · · · · · · · · ·	
A.6.3.	•	

A.6.3.2.2.1	Call Control INVITE Responses	23
A.6.3.2.2.2	2 Call Control re-INVITE Responses	24
A.6.3.2.2.3	3 Call Control BYE Responses	25
A.6.3.2.2.4	4 Call Control CANCEL Responses	26
A.6.3.2.3	INVITE parameters	27
A.6.3.2.3.1	I INVITE request parameters	27
A.6.3.2.3.2	2 INVITE response parameters	28
A.6.3.2.4	re-INVITE parameters	29
A.6.3.2.4.1		
A.6.3.2.4.2		
A.6.3.2.5	ACK	
A.6.3.2.5.1	ACK request parameters	32
A.6.3.2.6	BYE parameters	32
A.6.3.2.6.1	BYE request parameters	32
A.6.3.2.6.2	BYE response parameters	33
A.6.3.2.7	CANCEL parameters	34
A.6.3.2.7.1	CANCEL request parameters	34
A.6.3.2.7.2	2 CANCEL response parameters	35
A.6.3.3	Call Control Security	36
A.6.3.3.1	Call Control Security capabilities	36
A.6.3.3.2	HTTP parameters	36
A.6.3.4	Call Control Transport	37
A.6.3.5	Call Control Addressing	
A.6.3.5.1	URIs	
A.6.3.5.2	IP address	37
A.6.3.6	Call Control Timers	37
A.6.3.7	Call Control SDP description	38
A.6.3.7.1		
A.6.3.7.2	SDP types	
	Querying for capabilities	
A.6.4.1	Querying for capabilities	
A.6.4.2	Querying for capabilities Messages	
A.6.4.2.1	Querying for capabilities Requests	
A.6.4.2.2	Querying for capabilities Responses	
A.6.4.2.2.1		
A.6.4.2.3	OPTIONS parameters	
A.6.4.2.3.1	± ±	
A.6.4.2.3.2	* *	
A.6.4.3	Querying for capabilities Security	44
A.6.4.3.1	Querying for capabilities Security capabilities	
A.6.4.3.2	HTTP parameters	
A.6.4.4	Querying for capabilities transport	
A.6.4.5	Querying for capabilities Addressing	
A.6.4.5.1	URIs	
A.6.4.5.2	IP address	
A.6.4.6	Querying for capabilities Timers	40
A.7 Re	gistrar	46
A.7.1	Services	46
A.7.2	Registration service	47
A.7.2.1	Registration procedures	47
A.7.2.2	Registration Messages	47
A.7.2.2.1	Registration Requests	
A.7.2.2.2	Registration Responses	47
A.7.2.2.3	REGISTER parameters	48
A.7.2.2.3.1		48
A.7.2.2.3.2	2 REGISTER response parameters	49
A.7.2.3	Registration Security	
A.7.2.3.1	Registration Security capabilities	50
A.7.2.3.2	HTTP parameters	50
A.7.2.4	Registration Transport	51
A 7 2 5	Registration Addressing	51

A.7.2.5.1	URIs	
A.7.2.5.2	IP address	
A.7.2.6	Registration Timers	51
A.8 Proxy		52
•	vices	
11.0.1	l Control service	
	Call Control procedures	
	Call Control Messages	
A.8.2.2.1	Call Control Requests	
A.8.2.2.2	Call Control Responses	
A.8.2.2.2.1	Call Control INVITE Responses	
A.8.2.2.2.2	Call Control re-INVITE Responses	
A.8.2.2.2.3	Call Control BYE Responses	
A.8.2.2.2.4	Call Control CANCEL Responses	
A.8.2.2.3	INVITE parameters	
A.8.2.2.3.1	INVITE request parameters	
A.8.2.2.3.2	INVITE response parameters	
A.8.2.2.4	re-INVITE parameters	
A.8.2.2.4.1	re-INVITE request parameters	
A.8.2.2.4.2	re-INVITE response parameters	
A.8.2.2.5	ACK	
A.8.2.2.5.1	ACK request parameters	
A.8.2.2.6	BYE parameters	62
A.8.2.2.6.1	BYE request parameters	
A.8.2.2.6.2	BYE response parameters	
A.8.2.2.7	CANCEL parameters	
A.8.2.2.7.1	CANCEL request parameters	64
A.8.2.2.7.2	CANCEL response parameters	65
A.8.2.3	Call Control Security	66
A.8.2.3.1	Call Control Security capabilities	66
A.8.2.3.2	HTTP parameters	66
A.8.2.4	Call Control Transport	67
A.8.2.5	Call Control Addressing	67
A.8.2.5.1	URIs	67
A.8.2.5.2	IP address	67
A.8.2.6	Call Control Timers	67
A.8.3 Qu	erying for capabilities	68
A.8.3.1	Querying for capabilities	
A.8.3.2	Querying for capabilities Messages	
A.8.3.2.1	Querying for capabilities Requests	
A.8.3.2.2	Querying for capabilities Responses	
A.8.3.2.2.1	Querying for capabilities OPTIONS Responses	68
A.8.3.2.3	OPTIONS parameters	
A.8.3.2.3.1	OPTIONS request parameters	69
A.8.3.2.3.2	OPTIONS response parameters	
A.8.3.3	Querying for capabilities Security	71
A.8.3.3.1	Querying for capabilities Security capabilities	71
A.8.3.3.2	HTTP parameters	
A.8.3.4	Querying for capabilities transport	
A.8.3.5	Querying for capabilities addressing	
A.8.3.5.1	URIs	
A.8.3.5.2	IP address	
A.8.3.6	Querying for capabilities Timers	73
A.9 Redire	ect server	73
	vices	
	lirection service	
	Redirection Messages	
A.9.2.1.1	Redirection Requests.	
A.9.2.1.2	Redirection Responses	
A.9.2.1.2.1	Redirection INVITE Responses	

A.9.2.1.2.2	Redirection BYE Responses	75
A.9.2.1.2.3	Redirection CANCEL Responses	76
A.9.2.1.2.4	Redirection OPTIONS Responses	
A.9.2.1.3	Redirection parameters	
A.9.2.1.3.1	Request parameters	
A.9.2.1.3.2	Response parameters	
A.9.2.2	Redirection Security	78
A9.2.2.1	Redirection Security capabilities	
A.9.2.2.2	HTTP parameters	
A.9.2.3	Redirection Transport	
A.9.2.4	Redirection Addressing	79
A.9.2.4.1	URIs	79
A.9.2.4.2	IP address	79
A.9.2.5	Redirection Timers	80
Annex B (i	informative): Bibliography	81
History		82

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Methods for Testing and Specification (MTS).

The present document is part 1 of a multi-part deliverable covering Conformance Test Specification for SIP (IETF RFC 3261), as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS) proforma";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP)";
- Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma".

Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the Session Initiation Protocol (SIP) implementation in compliance with the relevant requirements specified in RFC 3261 "SIP: Session Initiation Protocol" [1], and in accordance with the relevant guidance given in ISO/IEC 9646-7 [7] and ETS 300 406 [5].

The present document is applicable to equipment performing the roles of user Agent, Registration server, proxy Application Server and Redirect server.

The present document is a new release of TS 102 027-1.

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

[1] IETF RFC 3261: "SIP: Session Initiation Protocol". [2] IETF RFC 2327: "SDP: Session Description Protocol". [3] IETF RFC 2617: "HTTP Authentication: Basic and Digest Access Authentication". [4] IETF RFC 3264: "An Offer/Answer Model with Session Description Protocol (SDP)". [5] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology". ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing [6] methodology and framework - Part 1: General concepts". [7] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in RFC 3261 [1], ISO/IEC 9646-1 [6], ISO/IEC 9646-7 [7] and the following apply:

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

NOTE: The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

Protocol ICS (PICS): PICS for an implementation or system claimed to conform to a given protocol specification

3.2 Abbreviations

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

HTTP HyperText Transfer Protocol

ICS Implementation Conformance Statement

IP Internet Protocol

IUT Implementation Under Test

PICS Protocol ICS

PIXIT partial Protocol Implementation eXtra Information for Testing

SDP Session Description Protocol SIP Session Initiation Protocol SUT System Under Test

UA User Agent
UAC User Agent Client
UAS User Agent Server

URI Uniform Resource Identifier

4 Conformance requirement

The supplier of a protocol implementation, which is claimed to conform to the requirements of RFC 3261 [1], shall verify that his protocol implementation meets the requirements described in the present document. All the requirements described in RFC 3261 [1] apply.

An ICS, which conforms to the present document, shall be a conforming ICS proforma completed in accordance with the guidance for completion given in clause 5.

5 Guidance for completing the PICS proforma

5.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in the Session Initiation Protocol RFC 3261 [1] document provides information about the implementation in a standardized manner.

The PICS proforma is subdivided into clauses for the following categories of information:

- Instructions for completing the PICS proforma;
- Identification of the implementation;
- Identification of the protocol; and
- Global statement of conformance.

5.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [7].

Item column

The item column contains a number, which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (for example parameters, timers, etc.). It implicitly means "is < item description > supported by the implementation?"**Status column**

The following notations, defined in ISO/IEC 9646-7 [7], are used for the status column:

M or m mandatory - the capability is required to be supported;

O or o optional - the capability may be supported or not;

N/A or n/a not applicable - in the given context, it is impossible to use the capability;

X or x prohibited (excluded) - there is a requirement not to use this capability in the given context;

Oi.j or oi.j qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer

identifying the table and "j" is an integer sequentially allocated inside the table. Oi.j forms a

unique optional status expression, which is defined immediately following the table;

Ci.j or ci.j conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of

other optional or conditional items. "i" is an integer identifying the table and "j" is an integer sequentially allocated inside the table. Ci.j forms a unique conditional status expression, which is

defined immediately following the table;

I or i irrelevant (out-of-scope) - the requirement on the capability is outside the scope of the reference

specification. No answer is requested from the supplier.

NOTE 1: This use of "i" status is not to be confused with the suffix "i" to the "o" and "c" status above.

Reference column

The reference column makes reference to RFC 3261 [1], except where explicitly stated otherwise.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [7], are used for the support column:

Y or y supported by the implementation;

N or n not supported by the implementation;

N/A or n/a no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional

status).

It is also possible to provide a comment to an answer in the space provided at the bottom of the table.

NOTE 2: As stated in ISO/IEC 9646-7 [7], support for a received Message requires the ability to parse all valid parameters of that Message. Supporting a Message while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a Message means that the semantics of that parameter are supported.

Values allowed column

The values allowed column contains the type, the list, the range, or the length of values allowed. The following notations are used:

Range of values:	< min value > < max value >:	Example: 5 20.
List of values:	< value1 >, < value2 >,, < valueN >:	Example: 2, 4, 6, 8, 9;
		Example: "1101"B, "1011"B, "1111"B;
		Example: "0A"H, "34"H, "2F"H.
List of named	< name1 >(< val1 >), < name2 >(< val2 >),,	Example: reject(1), accept(2).
values:	< nameN >(< valN >:	
Length:	size (< min size > < max size >):	Example: size (1 8).

Values supported column

The values supported column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.

References to items

For each possible item answer (answer in the support column) within the PICS proforma a unique reference exists, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a character "/", followed by the item number in the table. If there is more than one support column in a table, the columns are discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table 5 of annex A.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table 6 of annex A.

Prerequisite line

A prerequisite line takes the form: Prerequisite: < predicate >.

A prerequisite line after a clause or before a table header indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

Annex A (normative): PICS Proforma for RFC 3261

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed PICS.

A.1 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in clause 5.

If necessary, the supplier may provide additional comments in space at the bottom of the tables, or separately on sheets of paper.

More detailed instructions are given at the beginning of the different clauses of the PICS proforma.

A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

A.2.1	Date of the statement
A.2.2 IUT name:	Implementation Under Test (IUT) identification
IUT version:	
A.2.3 SUT name:	System Under Test (SUT) identification

Hardware configuration:
Operating system:
A.2.4 Product supplier
Name:
Address:
Γelephone number:
Facsimile number:
E-mail address:
Additional information:
A.2.5 Client (if different from product supplier)
Address:
Telephone number:

Facsimile number:
E-mail address:
Additional information:
A.2.6 PICS contact person
(A person to contact if there are any queries concerning the content of the PICS)
Name:
Telephone number:
Facsimile number:
E-mail address:
Additional information:

A.3 Identification of the protocol

This PICS proforma applies to: RFC 3261: "Session Initiation Protocol" [1].

A.4 Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No)NOTE: Answering "No" to this question indicates non-conformance to the RFC 3261 [1] specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming, on pages attached to the PICS proforma.

A.5 General

This clause contains the PICS proforma tables related to the general information.

A.5.1 Logical SIP entities

Table A.1: Logical SIP entities

Item	Logical SIP entities	Reference	Status	Support
1	User Agents (UA)	RFC 3261 [1], section 6	Oa1.01	
2	Registrar	RFC 3261 [1], section 6	Oa1.01	
3	Proxy server	RFC 3261 [1], section 6	Oa1.01	
4	Redirect Server	RFC 3261 [1], section 6	Oa1.01	
Oa1.01 It is mandatory to support at least one of those items.				
Comments:				

A.6 User Agent

This clause contains the PICS proforma tables related to the SIP UA.

A.6.1 Services

Table A.2: Services

Prerequ	Prerequisite: A.1/1				
Item	Services	Reference	Status	Support	
1	Registration	RFC 3261 [1], section 10	0		
2	Call Control	RFC 3261 [1], section 13	0		
3	Querying for capabilities	RFC 3261 [1], section 11	0		
Comments:					

A.6.2 Registration service

This clause contains the PICS proforma tables related to the registration operations for the UA that supports registration service.

A.6.2.1 Registration procedures

Table A.3: Registration procedures

Prerequisite: A.2/1 and A.1/1				
Item	Procedures	Reference	Status	Support
1	Registration Discovery			
1.1	Configured registrar address	RFC 3261 [1], section 10.2.6	Oa3.01	
1.2	Using address-of-record	RFC 3261 [1], section 10.2.6	Oa3.01	
1.3	Multicasting	RFC 3261 [1], section 10.2.6	Oa3.01	
2	Adding Bindings	RFC 3261 [1], section 10.2.1	М	
3	Removing Bindings	RFC 3261 [1], section 10.2.2	0	
4	Refreshing Bindings	RFC 3261 [1], section 10.2.4	0	
5	Querying Bindings	RFC 3261 [1], section 10.2.1	0	
6	Setting Expiration interval for contact	RFC 3261 [1], section 10.2.1.1	0	
7	Ordering contacts	RFC 3261 [1], section 10.2.1.2	0	
8	Setting internal clock	RFC 3261 [1], section 10.2.5	0	
Oa3.01	It is mandatory to support at least one o	f those items.		
Comme	nts:			

A.6.2.2 Registration Messages

A.6.2.2.1 Registration Request

Table A.4: Registration Request

Prerequisite: A.2/1 and A.1/1					
Item	Item Method Reference Status sending Support				
1	REGISTER	RFC 3261 [1], section 10.2	М		
Comments:					

A.6.2.2.2 Registration Responses

Table A.5: Registration Responses

ltem	Status code	References	Status receiving	Support
1	1XX	•	·	
1.1	100	RFC 3261 [1], sections 21.1 and 8.1.3.2	M	
1.2	183	RFC 3261 [1], sections 21.1 and 8.1.3.2	M	
2	2XX			
2.1	200	RFC 3261 [1], section 21.2	M	
3	3XX			
3.1	300	RFC 3261 [1], sections 21.3.1 and 8.1.3.2	M	
3.2	301	RFC 3261 [1], section 21.3.2	0	
3.3	302	RFC 3261 [1], sections 21.3.3 and 10.3	0	
4	4XX			
4.1	400	RFC 3261 [1], section 21.4.1	M	
4.2	401	RFC 3261 [1], section 21.4.2	0	
4.3	403	RFC 3261 [1], section 21.4.4	0	
4.4	404	RFC 3261 [1], section 21.4.5	0	
4.5	405	RFC 3261 [1], section 21.4.6	0	
4.6	406	RFC 3261 [1], section 21.4.7	0	
4.7	407	RFC 3261 [1], section 21.4.8	0	
4.8	408	RFC 3261 [1], section 21.4.9	0	
4.9	410	RFC 3261 [1], section 21.4.10	0	
4.10	414	RFC 3261 [1], section 21.4.12	0	
4.11	416	RFC 3261 [1], section 21.4.14	0	
4.12	423	RFC 3261 [1], sections 21.4.17 and 10.2.8	0	
4.13	482	RFC 3261 [1], section 21.4.20	0	
4.14	483	RFC 3261 [1], section 21.4.21	0	
4.15	484	RFC 3261 [1], section 21.4.22	0	
5	5XX			
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	M	
5.2	502	RFC 3261 [1], section 21.5.3	0	
5.3	503	RFC 3261 [1], section 21.5.4	0	
5.4	504	RFC 3261 [1], section 21.5.5	0	
5.5	505	RFC 3261 [1], section 21.5.6	0	
6	6XX		•	
6.1	600	RFC 3261 [1], section 21.6.1	M	
6.2	604	RFC 3261 [1], section 21.6.3	0	
Comm	response. According to not recogniz According to	o RFC 3261 [1], section 8.2.6.1, the registrar so RFC 3261 [1], section 8.1.3.2: "A UAC MUSite as being equivalent to the x00 response coor RFC 3261 [1], section 10.3, a Registrar musite proxy can send one.	T treat any final respo de of that class".	onse it does

A.6.2.2.3 REGISTER parameters

Comments:

A.6.2.2.3.1 REGISTER request parameters

Table A.6: REGISTER Request parameters

Prereq	uisite: A.2/1 and A.1/1			
Item	Parameters name	Reference	Status sending	Support
1	Request-Line			• •
1.1	Method	RFC 3261 [1], section 7.1	M	
			(see note 1)	
1.2	Request-URI	RFC 3261 [1], section 7.1	M	
1.3	SIP-Version	RFC 3261 [1], section 7.1	M	
			(see note 2)	
2	Headers			
2.1	Accept	RFC 3261 [1], section 20	0	
2.2	Accept-Encoding	RFC 3261 [1], section 20	0	
2.3	Accept-Language	RFC 3261 [1], section 20	0	
2.4	Allow	RFC 3261 [1], section 20	0	
2.5	Authorization	RFC 3261 [1], section 20	Oa6.01	
2.6	Call-ID	RFC 3261 [1], section 20	M	
2.7	Call-Info	RFC 3261 [1], section 20	0	
2.8	Contact	RFC 3261 [1], section 20	Ca6.01	
2.9	Content-Disposition	RFC 3261 [1], section 20	0	
2.10	Content-Encoding	RFC 3261 [1], section 20	0	
2.11	Content-Language	RFC 3261 [1], section 20	0	
2.12	Content-Length	RFC 3261 [1], section 20	Ca6.04	
2.13	Content-Type	RFC 3261 [1], section 20	Ca6.02	
2.14	CSeq	RFC 3261 [1], section 20	M	
2.15	Date	RFC 3261 [1], section 20	0	
2.16	Expires	RFC 3261 [1], section 20	Ca6.03	
2.17	From	RFC 3261 [1], section 20	M	
2.18	Max-Forwards	RFC 3261 [1], section 20	M	
2.19	MIME-Version	RFC 3261 [1], section 20	0	
2.20	Organization	RFC 3261 [1], section 20	0	
2.21	Proxy-Authorization	RFC 3261 [1], section 20	Oa6.01	
2.22	Poxy-Require	RFC 3261 [1], section 20	0	
2.23	Require	RFC 3261 [1], section 20	0	
2.24	Route	RFC 3261 [1], section 20	0	
2.25	Server	RFC 3261 [1], section 20	0	
2.26	Supported	RFC 3261 [1], section 20	0	
2.27	Timestamp	RFC 3261 [1], section 20	0	
2.28	То	RFC 3261 [1], section 20	M	
2.29	User-Agent	RFC 3261 [1], section 20	0	
2.30	Via	RFC 3261 [1], section 20	M	
2.29	Warning	RFC 3261 [1], section 20	0	
3	Body	RFC 3261 [1], section 7.4	0	
Ca6.01	IF (A.3/2 OR A.3/4) TH		· '	
Ca6.02				
Ca6.03				
Ca6.04				
Da6.01		t least shall be supported.		
NOTE '				
NOTE 2	To be conform to RFC	3261 [1] shall be set to "SIP/2	2.0".	

A.6.2.2.3.2 REGISTER response parameters

Table A.7: REGISTER Response parameters

Item	uisite: A.2/1 and A.1/1 Parameters name	Reference	Status receiving	Support
1	Status-line	110.0.0.0	o tatalo i o o o i i i i g	Сиррон
1.1	SIP-Version	RFC 3261 [1], section 7.1	M	
		[1,1,000.0.1.1.1]	(see note)	
1.2	Status-Code	RFC 3261 [1], section 7.1	M	
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	M	
2	Headers	[0 020 . [.], 000		
2.1	Accept	RFC 3261 [1], section 20	0	
2.2	Accept-Encoding	RFC 3261 [1], section 20	0	
2.3	Accept-Language	RFC 3261 [1], section 20	0	
2.4	Allow	RFC 3261 [1], section 20	Ca7.01	
2.5	Authentication-Info	RFC 3261 [1], section 20	0	
2.6	Call-ID	RFC 3261 [1], section 20	M	
2.7	Call-Info	RFC 3261 [1], section 20	O	
2.8	Contact	RFC 3261 [1], section 20	Ca7.02	
		- 1·		
2.9 2.10	Content-Disposition Content-Encoding	RFC 3261 [1], section 20 RFC 3261 [1], section 20	0	
		1. 1.	Ca7.11	
2.11	Content-Language	RFC 3261 [1], section 20	0	
2.12	Content-Length	RFC 3261 [1], section 20	0	
2.13	Content-Type	RFC 3261 [1], section 20	Ca7.03	
2.14	CSeq	RFC 3261 [1], section 20	M	
2.15	Date	RFC 3261 [1], section 20	0	
2.16	Error-Info	RFC 3261 [1], section 20	Ca7.04	
2.17	Expires	RFC 3261 [1], section 20	0	
2.18	From	RFC 3261 [1], section 20	M	
2.19	Min-Expires	RFC 3261 [1], section 20	Ca7.05	
2.20	MIME-Version	RFC 3261 [1], section 20	0	
2.21	Organization	RFC 3261 [1], section 20	0	
2.22	Proxy-Authenticate	RFC 3261 [1], section 20	Ca7.06	
2.23	Require	RFC 3261 [1], section 20	M	
2.24	Retry-After	RFC 3261 [1], section 20	Ca7.07	
2.25	Server	RFC 3261 [1], section 20	0	
2.26	Supported	RFC 3261 [1], section 20	Ca7.08	
2.27	Timestamp	RFC 3261 [1], section 20	0	
2.28	То	RFC 3261 [1], section 20	M	
2.29	Unsupported	RFC 3261 [1], section 20	Ca7.09	
2.30	User-Agent	RFC 3261 [1], section 20	0	
2.31	Via	RFC 3261 [1], section 20	M	
2.32	Warning	RFC 3261 [1], section 20	0	
2.33	WWW-Authenticate	RFC 3261 [1], section 20	Ca7.10	
3	Body	RFC 3261 [1], section 7.4	0	
Ca7.01	IF (status = 405) THEN		<u> </u>	
Ca7.02		N X ELSE (IF status= 2XX TH	IEN M ELSE (IF (stati	us=3XX OR
	status=485) THEN O E		((2.5	
Ca7.03	IF (A.7/3) THEN M ELS			
Ca7.04				
Ca7.05	IF (status= 423) THEN	M ELSE X.		
Ca7.06		M ELSE (IF (status= 401) Th	HEN O ELSE X).	
Ca7.07	IF (status= (404,413,48	30,486,500,503,600,603)) [°] TH	EN O ELSE X.	
Ca7.08	IF (status= 2XX) THEN	O ELSE X.		
Ca7.09	IF (status= 420) THEN			
Ca7.10		M ELSE (IF (status= 407) Th	HEN O ELSE X).	
Ca7.11	IF (A.7/3) THEN O ELS		· 	
NOTE:	To be conformed to RF	C 3261 [1] shall be set to "SI	P/2.0".	
Comme				

A.6.2.3 Registration Security

A.6.2.3.1 Registration Security capabilities

Table A.8: Registration Security capabilities

Prerequ	Prerequisite: A.2/1 and A.1/1				
Item	Security capabilities	Reference	Status	Support	
1	HTTP Authentication	RFC 3261 [1], sections 22 and 26.2.3	Ca8.01		
2	S/MIME	RFC 3261 [1], sections 23 and 26.2.4	0		
3	TLS	RFC 3261 [1], section 26.2.1	0		
Ca8.01	IF (A.8/3) THEN M ELSE	0.			
Comme	nts:		•	•	

A.6.2.3.2 HTTP parameters

Table A.9: Access Authentication

Prerequisite: A.2/1, A.8/1 and A.1/1				
Item	Parameters name	Reference	Status	Support
1	Basic	RFC 2617 [3], section 2	Χ	
2	Digest	RFC 2617 [3], section 3	M	
Commen	its:			

Table A.10: Authenticate header

ltem	Parameters name	Reference	Status	Support
1	realm	RFC 2617 [3], section 3.2.1	M	
2	domain	RFC 2617 [3], section 3.2.1	0	
3	nonce	RFC 2617 [3], section 3.2.1	M	
4	opaque	RFC 2617 [3], section 3.2.1	0	
5	stale	RFC 2617 [3], section 3.2.1	0	
6	algorithm	RFC 2617 [3], section 3.2.1	0	
7	qop-options	RFC 2617 [3], section 3.2.1	0	
8	auth-param	RFC 2617 [3], section 3.2.1	0	
OTE:	If a UAC receives a qop-	options header in an Authenticat	te then message	-quop is
	mandatory.			

Table A.11: Authorization header

Prerequ	isite: A.2/1, A.8/1 and A.1/	1		
Item	Parameters name	Reference	Status	Support
1	username	RFC 2617 [3], section 3.2.2	M	
2	realm	RFC 2617 [3], section 3.2.2	M	
3	nonce	RFC 2617 [3], section 3.2.2	M	
4	digest-uri	RFC 2617 [3], section 3.2.2	M	
5	response	RFC 2617 [3], section 3.2.2	M	
6	algorithm	RFC 2617 [3], section 3.2.2	0	
7	cnonce	RFC 2617 [3], section 3.2.2	0	
8	opaque	RFC 2617 [3], section 3.2.2	0	
9	message-qop	RFC 2617 [3], section 3.2.2	0	
	-		(see note)	
10	nonce-count	RFC 2617 [3], section 3.2.2	0	
11	auth-param	RFC 2617 [3], section 3.2.2	0	
NOTE:	If a UAC receives a qop-	options header in an Authenticat	e then message-	quop is
	mandatory.			
Commer	nts:			

A.6.2.4 Registration Transport

Table A.12: Registration transport

Prerequi	Prerequisite: A.2/1 and A.1/1				
Item	transport	Reference	Status	Support	
1	UDP	RFC 3261 [1], section 18	М		
2	TCP	RFC 3261 [1], section 18	М		
3	Other transport	RFC 3261 [1], section 18	0		
Commen	ts:			•	

A.6.2.5 Registration Addressing

A.6.2.5.1 URIs

Table A.13: Registration URI

Prerequis	Prerequisite: A.2/1 and A.1/1				
Item	URI scheme	Reference	Status	Support	
1	SIP	RFC 3261 [1], section 19	М		
2	SIPS	RFC 3261 [1], section 19	Ca13.01		
Ca13.01	Ca13.01 IF (A.8/3) THEN M ELSE O.				
Comments	S:				

A.6.2.5.2 IP address

Table A.14: Registration IP Address

Prerequis	site: A.2/1 and A.1/1			
Item	IP Address format	Reference	Status	Support
1	IPv4	RFC 3261 [1], section 19	M	
2	IPv6	RFC 3261 [1], section 19	0	
Comment	s:			

A.6.2.6 Registration Timers

Table A.15: Registration Timer

Prerequi	Prerequisite: A.2/1 and A.1/1				
Item	Timer	Reference	Status	Support	
1	T1	RFC 3261 [1], section 17.1.2.1, table 4	Ca15.01		
2	T2	RFC 3261 [1], section 17.1.2.1, table 4	Ca15.01		
3	T4	RFC 3261 [1], section 17.1.2.2, table 4	Ca15.01		
4	Timer E	RFC 3261 [1], section 17.1.2.2, table 4	Ca15.01		
5	Timer F	RFC 3261 [1], section 17.1.2.2, table 4	0		
6	Timer K	RFC 3261 [1], section 17.1.2.2, table 4	M		
			(see note)		
Ca15.01	IF (A.12/1) THEN M ELSE	N/A.			
NOTE:	Set to zero for reliable tran	sport.	•	•	
Commen	ts:				

A.6.3 Call Control service

This clause contains the PICS proforma tables related to the call control operations for the UA that supports call control service.

A.6.3.1 Call Control procedures

Table A.16: Call Control procedures

Item	procedures	Reference	Status	Support
1	establishing a session			
1.1	UAC procedures	RFC 3261 [1], section 13.2	Oa16.01	
1.2	UAS procedures	RFC 3261 [1], section 13.3	Oa16.01	
1.3	Based on Location server messages	RFC 3261 [1], section 8.1.3.4	0	
2	Modifying an existing session			
2.1	UAC procedures	RFC 3261 [1], section 14.1	0	
2.2	UAS procedures	RFC 3261 [1], section 14.2	0	
3	Terminating a session with BYE			
3.1	UAC procedures	RFC 3261 [1], section 15.1.1	М	
3.2	UAS procedures	RFC 3261 [1], section 15.1.2	М	
4	Cancelling a session			
4.1	UAC procedures	RFC 3261 [1], section 9.1	М	
4.2	UAS procedures	RFC 3261 [1], section 9.2	М	
a16.01	At least, one of those items shall be	supported.		
ommei				
	According to RFC 3261 [1], secti	on 13.1, a UA that supports INVI ⁻	ΓE method mus	t also suppor
	ACK, CANCEL and BYE.			

A.6.3.2 Call Control Messages

A.6.3.2.1 Call Control Requests

Table A.17: Call Control Requests

Prerequi	site: A.2/2 and A.1/1							
Item	Method	Reference	Sta	atus	Sup	port		
			Sending	Receiving	Sending	Receiving		
1	INVITE	RFC 3261 [1], section 13	Ca17.01	Ca17.02				
2	re-INVITE	RFC 3261 [1], section 14	Ca17.03	Ca17.04				
3	ACK	RFC 3261 [1], section 8	Ca17.01	Ca17.02				
4	BYE	RFC 3261 [1], section 15	М	M				
5	CANCEL	RFC 3261 [1], section 9	М	М				
Ca17.01	IF A.16/1.1 THEN M	I ELSE N/A.						
Ca17.02	IF A.16/1.2 THEN M	I ELSE N/A.						
Ca17.03	IF A.16/2.1 THEN M	I ELSE N/A.						
Ca17.04	IF A.16/2.2 THEN M	I ELSE N/A.						
Commen	Comments: According to RFC 3261 [1], section 13.1, a UA that supports INVITE method shall also							
	support ACK, CA	ANCEL and BYE methods.						

A.6.3.2.2 Call Control Responses

A.6.3.2.2.1 Call Control INVITE Responses

Table A.18: Call Control INVITE Responses

Item	Status code	Reference	Sta	atus	Sup	port
			Sending	Receiving	Sending	Receiving
1	1XX					
1.1	100	RFC 3261 [1], sections 21.1.1 and 8.1.3.2	Ca18.04	Ca18.01		
1.2	180	RFC 3261 [1], section 21.1.2	Ca18.04	Ca18.03		
1.3	181	RFC 3261 [1], section 21.1.3	Ca18.04	Ca18.03		
1.4	182	RFC 3261 [1], section 21.1.4	Ca18.04	Ca18.03		
1.5	183	RFC 3261 [1], sections 21.1.5 and 8.1.3.2	Ca18.04	Ca18.01		
2	2XX					
2.1	200	RFC 3261 [1], section 21.2	Ca18.02	Ca18.01		
3	3XX					
3.1	300	RFC 3261 [1], sections 21.3.1 and 8.1.3.2	Ca18.04	Ca18.01		
3.2	301	RFC 3261 [1], section 21.3.2	Ca18.04	Ca18.03		
3.3	302	RFC 3261 [1], section 21.3.3	Ca18.04	Ca18.03		
3.4	305	RFC 3261 [1], section 21.3.4	Ca18.04	Ca18.03		
3.5	380	RFC 3261 [1], section 21.3.5	Ca18.04	Ca18.03		
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	Ca18.04	Ca18.01		
4.2	401	RFC 3261 [1], section 21.4.2	Ca18.04	Ca18.03		
4.3	402	RFC 3261 [1], section 21.4.3	Ca18.04	Ca18.03		
4.4	403	RFC 3261 [1], section 21.4.4	Ca18.04	Ca18.03		
4.5	404	RFC 3261 [1], section 21.4.5	Ca18.04	Ca18.03		
4.6	405	RFC 3261 [1], section 21.4.6	Ca18.06	Ca18.03		
4.7	406	RFC 3261 [1], section 21.4.7	Ca18.04	Ca18.03		
4.8	407	RFC 3261 [1], section 21.4.8	N/A	Ca18.03		
4.9	408	RFC 3261 [1], section 21.4.9	Ca18.04	Ca18.03		
4.10	410	RFC 3261 [1], section 21.4.10	Ca18.04	Ca18.03		
4.11	413	RFC 3261 [1], section 21.4.11	Ca18.04	Ca18.03		
4.12	414	RFC 3261 [1], section 21.4.12	Ca18.04	Ca18.03		
4.13	415	RFC 3261 [1], section 21.4.13	Ca18.02	Ca18.03		
4.14	416	RFC 3261 [1], section 21.4.14	Ca18.04	Ca18.03		
4.15	420	RFC 3261 [1], section 21.4.15	Ca18.02	Ca18.03		
4.16	421	RFC 3261 [1], section 21.4.16	Ca18.04	Ca18.03		

Item	Status code	Reference	Sta	atus	Sup	port
			Sending	Receiving	Sending	Receiving
4.17	480	RFC 3261 [1], section 21.4.18	Ca18.04	Ca18.03		
4.18	481	RFC 3261 [1], section 21.4.19	Ca18.04	Ca18.03		
4.19	482	RFC 3261 [1], section 21.4.20	Ca18.04	Ca18.03		
4.20	484	RFC 3261 [1], section 21.4.22	Ca18.04	Ca18.03		
4.21	485	RFC 3261 [1], section 21.4.23	Ca18.04	Ca18.03		
4.22	486	RFC 3261 [1], section 21.4.24	Ca18.04	Ca18.03		
4.23	487	RFC 3261 [1], section 21.4.25	Ca18.04	Ca18.03		
4.24	488	RFC 3261 [1], section 21.4.26	Ca18.04	Ca18.03		
4.25	491	RFC 3261 [1], section 21.4.27	Ca18.04	Ca18.03		
4.26	493	RFC 3261 [1], section 21.4.28	Ca18.05	Ca18.03		
5	5XX					
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	Ca18.02	Ca18.01		
5.2	501	RFC 3261 [1], section 21.5.2	Ca18.04	Ca18.03		
5.3	502	RFC 3261 [1], section 21.5.3	N/A	Ca18.03		
5.4	503	RFC 3261 [1], section 21.5.4	Ca18.04	Ca18.03		
5.5	504	RFC 3261 [1], section 21.5.5	Ca18.04	Ca18.03		
5.6	505	RFC 3261 [1], section 21.5.6	Ca18.04	Ca18.03		
5.7	513	RFC 3261 [1], section 21.5.7	Ca18.04	Ca18.03		
6	6XX				-	
6.1	600	RFC 3261 [1], section 21.6.1	Ca18.04	Ca18.01		
6.2	603	RFC 3261 [1], section 21.6.2	Ca18.04	Ca18.03		
6.3	604	RFC 3261 [1], section 21.6.3	Ca18.04	Ca18.03		
6.4	606	RFC 3261 [1], section 21.6.4	Ca18.04	Ca18.03		
Ca18.01		EN M ELSE N/A UAC procedures.				
Ca18.02		EN M ELSE N/A UAS procedures.				
Ca18.03		EN O ELSE N/A UAC procedures.				
Ca18.04		EN O ELSE N/A UAS procedures.				
Ca18.05		N M ELSE N/A S/MIME.				
Ca18.06		EN X ELSE N/A UAS procedures.				
Commer		e, according to RFC 3261 [1], section 8.1.3.2			y final respo	nse it does
	not recogn	ize as being equivalent to the x00 response	code of that	ciass".		

A.6.3.2.2.2 Call Control re-INVITE Responses

Table A.19: Call Control re-INVITE Responses

Item	Status code	Reference	Sta	atus	Sup	port
			Sending	Receiving	Sending	Receiving
1	1XX					
1.1	100	RFC 3261 [1], sections 21.1.1 and 8.1.3.2	Ca19.04	Ca19.01		
1.2	180	RFC 3261 [1], section 21.1.2	Ca19.04	Ca19.03		
1.3	181	RFC 3261 [1], section 21.1.3	Ca19.04	Ca19.03		
1.4	183	RFC 3261 [1], section 21.1.5, [1] and 8.1.3.2	Ca19.04	Ca19.01		
2	2XX					•
2.1	200	RFC 3261 [1], section 21.2	Ca19.02	Ca19.01		
3	3XX					•
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	Ca19.04	Ca19.01		
4.2	401	RFC 3261 [1], section 21.4.2	Ca19.04	Ca19.03		
4.3	402	RFC 3261 [1], section 21.4.3	Ca19.04	Ca19.03		
4.4	403	RFC 3261 [1], section 21.4.4	Ca19.04	Ca19.03		
4.5	404	RFC 3261 [1], section 21.4.5	Ca19.04	Ca19.03		
4.6	405	RFC 3261 [1], section 21.4.6	Ca19.06	Ca19.03		
4.7	406	RFC 3261 [1], section 21.4.7	Ca19.04	Ca19.03		
4.8	407	RFC 3261 [1], section 21.4.8	N/A	Ca19.03		
4.9	408	RFC 3261 [1], section 21.4.9	Ca19.04	Ca19.03		
4.10	410	RFC 3261 [1], section 21.4.10	Ca19.04	Ca19.03		
4.11	413	RFC 3261 [1], section 21.4.11	Ca19.04	Ca19.03		
4.12	414	RFC 3261 [1], section 21.4.12	Ca19.04	Ca19.03		

Prerequ	isite: A.2/2 and					
Item	Status code	Reference	Sta	atus	Sup	port
			Sending	Receiving	Sending	Receiving
4.13	415	RFC 3261 [1], section 21.4.13	Ca19.02	Ca19.03		
4.14	416	RFC 3261 [1], section 21.4.14	Ca19.04	Ca19.03		
4.15	420	RFC 3261 [1], section 21.4.15	Ca19.02	Ca19.03		
4.16	421	RFC 3261 [1], section 21.4.16	Ca19.04	Ca19.03		
4.17	480	RFC 3261 [1], section 21.4.18	Ca19.04	Ca19.03		
4.18	481	RFC 3261 [1], section 21.4.19	Ca19.04	Ca19.03		
4.19	482	RFC 3261 [1], section 21.4.20	Ca19.04	Ca19.03		
4.20	484	RFC 3261 [1], section 21.4.22	Ca19.04	Ca19.03		
4.21	485	RFC 3261 [1], section 21.4.23	Ca19.04	Ca19.03		
4.22	487	RFC 3261 [1], section 21.4.25	Ca19.02	Ca19.03		
4.23	488	RFC 3261 [1], section 21.4.26	Ca19.04	Ca19.03		
4.24	491	RFC 3261 [1], section 21.4.27	Ca19.02	Ca19.03		
4.25	493	RFC 3261 [1], section 21.4.28	Ca19.05	Ca19.03		
5	5XX					
5	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	Ca19.02	Ca19.01		
5.1	501	RFC 3261 [1], section 21.5.2	Ca19.04	Ca19.03		
5.2	502	RFC 3261 [1], section 21.5.3	N/A	Ca19.03		
5.3	503	RFC 3261 [1], section 21.5.4	Ca19.04	Ca19.03		
5.4	504	RFC 3261 [1], section 21.5.5	Ca19.04	Ca19.03		
5.5	505	RFC 3261 [1], section 21.5.6	Ca19.04	Ca19.03		
5.6	513	RFC 3261 [1], section 21.5.7	Ca19.04	Ca19.03		
6	6XX					
6.1	600	RFC 3261 [1], section 21.6.1	Ca19.04	Ca19.01		
6.2	603	RFC 3261 [1], section 21.6.2	Ca19.04	Ca19.03		
6.3	604	RFC 3261 [1], section 21.6.3	Ca19.04	Ca19.03		
6.4	606	RFC 3261 [1], section 21.6.4	Ca19.04	Ca19.03		
		HEN M ELSE N/A UAC procedures.				
		HEN M ELSE N/A UAS procedures.				
Ca19.03		HEN O ELSE N/A UAC procedures.				
Ca19.04		HEN O ELSE N/A UAS procedures.				
Ca19.05		EN M ELSE N/A UAC procedures.				
		HEN X ELSE N/A UAS procedures.				
Commer		s codes that concern Call control service to mo				:4 alaaa n = 4
		e, according to RFC 3261 [1], section 8.1.3.2: "		treat any fin	aı response	it does not
	recognize	as being equivalent to the x00 response code of	oi mat ciass".			

A.6.3.2.2.3 Call Control BYE Responses

Table A.20: Call Control BYE Responses

Prerequi	site: A.2/2 and	A.1/1				
Item	Status code	Reference	Sta	itus	Sup	port
			Sending	Receiving	Sending	Receiving
1	1XX	RFC 3261 [1], sections 21.1 and 8.1.3.2	Х	M		
2	2XX					
2.1	200	RFC 3261 [1], section 21.2	M	M		
3	3XX					
3.1	300	RFC 3261 [1], section 21.3.1 and 8.1.3.2	N/A	M		
3.2	301	RFC 3261 [1], section 21.3.2	0	0		
3.3	302	RFC 3261 [1], section 21.3.3	0	0		
3.4	305	RFC 3261 [1], section 21.3.4	0	0		
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	0	M		
4.2	401	RFC 3261 [1], section 21.4.2	0	0		
4.3	403	RFC 3261 [1], section 21.4.4	0	0		
4.4	404	RFC 3261 [1], section 21.4.5	0	0		
4.5	405	RFC 3261 [1], section 21.4.6	Х	0	•	
4.6	406	RFC 3261 [1], section 21.4.7	0	0	•	
4.7	407	RFC 3261 [1], section 21.4.8	N/A	0		
4.8	408	RFC 3261 [1], section 21.4.9	0	0		

Prerequi	site: A.2/2 and	A.1/1				
Item	Status code	Reference	Sta	tus	Sup	port
			Sending	Receiving	Sending	Receiving
4.9	413	RFC 3261 [1], section 21.4.11	0	0		
4.10	414	RFC 3261 [1], section 21.4.12	0	0		
4.11	481	RFC 3261 [1], section 21.4.19	0	0		
4.12	482	RFC 3261 [1], section 21.4.20	0	0		
4.13	484	RFC 3261 [1], section 21.4.22	0	0		
4.14	485	RFC 3261 [1], section 21.4.23	0	0		
4.15	487	RFC 3261 [1], section 21.4.25	0	0		
4.16	488	RFC 3261 [1], section 21.4.26				
5	5XX					
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	M	М		
5.2	502	RFC 3261 [1], section 21.5.3	N/A	0		
5.3	504	RFC 3261 [1], section 21.5.5	0	0		
5.4	513	RFC 3261 [1], section 21.5.7	0	0	•	
6	6XX					
6.1	604	RFC 3261 [1], section 21.6.3	0	0	•	

Comments:

Only status codes that concern Call control service to terminate a session have been detailed. In any case, according to RFC 3261 [1], section 8.1.3.2: "A UAC MUST treat any final response it does not recognize as being equivalent to the x00 response code of that class". According to RFC 3261 [1], section 8.2.6.1 a UAS should not generate a provisional response for a

non-INVITE request.

A.6.3.2.2.4 Call Control CANCEL Responses

Table A.21: Call Control CANCEL Responses

Item	Status code	Reference	Sta	atus	Sup	port
			Sending	Receiving	Sending	Receiving
1	1XX	RFC 3261 [1], sections 21.1 and 8.1.3.2	Х	М		_
2	2XX		•			
2.1	200	RFC 3261 [1], section 21.2	M	M		
3	3XX					
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	0	M		
4.2	401	RFC 3261 [1], section 21.4.2	0	0		
4.3	403	RFC 3261 [1], section 21.4.4	0	0		
4.4	404	RFC 3261 [1], section 21.4.5	0	0		
4.5	405	RFC 3261 [1], section 21.4.6	X	0		
4.6	406	RFC 3261 [1], section 21.4.7	0	0		
4.7	407	RFC 3261 [1], section 21.4.8	N/A	0		
4.8	408	RFC 3261 [1], section 21.4.9	0	0		
4.9	413	RFC 3261 [1], section 21.4.11	0	0		
4.10	414	RFC 3261 [1], section 21.4.12	0	0		
4.11	481	RFC 3261 [1], section 21.4.19	0	0		
4.12	482	RFC 3261 [1], section 21.4.20	0	0		
4.13	484	RFC 3261 [1], section 21.4.22	0	0		
4.14	485	RFC 3261 [1], section 21.4.23	0	0		
4.15	487	RFC 3261 [1], section 21.4.25	0	0		
4.16	488	RFC 3261 [1], section 21.4.26				
5	5XX					
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	M	М		
5.2	502	RFC 3261 [1], section 21.5.3	N/A	0		
5.3	504	RFC 3261 [1], section 21.5.5	0	0		
5.4	513	RFC 3261 [1], section 21.5.7	0	0		

Prerequ	Prerequisite: A.2/2 and A.1/1									
Item	Status code	Reference	Status		Support					
			Sending	Receiving	Sending	Receiving				
6	6XX									
6.1	600	RFC 3261 [1], section 21.6.1	0	M						
6.2	604	RFC 3261 [1], section 21.6.3	0	0						

Comments: Only status codes that concern Call control service to cancel a session have been detailed.

In any case, according to RFC 3261 [1], section 8.1.3.2: "A UAC MUST treat any final response it does not recognize as being equivalent to the x00 response code of that class".

According to RFC 3261 [1], section 8.2.6.1 a UAS should not generate a provisional response for a non-INVITE request.

A.6.3.2.3 **INVITE** parameters

A.6.3.2.3.1 **INVITE** request parameters

Table A.22: INVITE Request parameters

Item	Parameters name	Reference	Sta	atus	Su	port
			Sending	Receiving	Sending	Receiving
1	Request-Line					
1.1	Method	RFC 3261 [1], section 7.1	Ca22.01	Ca22.02		
			(see note 1)			
1.2	Request-URI	RFC 3261 [1], section 7.1	Ca22.01	Ca22.02		
1.3	SIP-Version	RFC 3261 [1], section 7.1	Ca22.01	Ca22.02		
				(see note 2)		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.2	Accept-Encoding	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.3	Accept-Language	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.4	Alert-Info	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.5	Allow	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.6	Authorization	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.7	Call-ID	RFC 3261 [1], section 20	Ca22.01	Ca22.02		
2.8	Call-Info	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.9	Contact	RFC 3261 [1], section 20	Ca22.01	Ca22.02		
2.10	Content-Disposition	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.11	Content-Encoding	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.12	Content-Language	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.13	Content-Length	RFC 3261 [1], section 20	Ca22.05	Ca22.02		
2.14	Content-Type	RFC 3261 [1], section 20	Ca22.06	Ca22.02		
2.15	CSeq	RFC 3261 [1], section 20	Ca22.01	Ca22.02		
2.16	Date	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.17	Expires	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.18	From	RFC 3261 [1], section 20	Ca22.01	Ca22.02		
2.19	In-Reply-To	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.20	Max-Forwards	RFC 3261 [1], section 20	Ca22.01	Ca22.04		
2.21	MIME-Version	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.22	Organization	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.23	Priority	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.24	Proxy-Authorization	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.25	Proxy-Require	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.26	Record-Route	RFC 3261 [1], section 20	Ca22.03	Ca22.02		
2.27	Reply-To	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.28	Require	RFC 3261 [1], section 20	Ca22.03	Ca22.02		
2.29	Route	RFC 3261 [1], section 20	Ca22.01	Ca22.02		
2.30	Server	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.31	Subject	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.32	Supported	RFC 3261 [1], section 20	Ca22.01	Ca22.02		
2.33	Timestamp	RFC 3261 [1], section 20	Ca22.03	Ca22.04		
2.34	То	RFC 3261 [1], section 20	Ca22.01	Ca22.02		

Item	Parameters name	Reference	Status		Sup	port			
			Sending	Receiving	Sending	Receiving			
2.35	User-Agent	RFC 3261 [1], section 20	Ca22.03	Ca22.04					
2.36	Via	RFC 3261 [1], section 20	Ca22.01	Ca22.02					
2.37	Warning	RFC 3261 [1], section 20	Ca22.03	Ca22.04					
3	Body	RFC 3261 [1], section 7.4	Ca22.03	Ca22.02					
Ca22.02 Ca22.03 Ca22.04 Ca22.05	IF A.16/1.2 THEN M IF A.16/1.1 THEN O IF A.16/1.2 THEN O	IF A.16/1.1 THEN M ELSE N/A UAC procedures. IF A.16/1.2 THEN M ELSE N/A UAS procedures. IF A.16/1.1 THEN O ELSE N/A UAC procedures. IF A.16/1.2 THEN O ELSE N/A UAS procedures. IF A.16/1.2 THEN O ELSE N/A UAS procedures. IF (A.22/3 OR A.35/2) THEN M ELSE O.							
_		Set to "INVITE" value in this case. To be conformed to RFC 3261 [1], section shall be set to "SIP/2.0".							

A.6.3.2.3.2 INVITE response parameters

Table A.23: INVITE response parameters

Item	Parameters name	Reference		itus		port
			Sending	Receiving	Sending	Receiving
1	Status-Line					
1.1	SIP-Version	RFC 3261 [1], section 7.1	Ca23.02	Ca23.01		
			(see note)			
1.2	Status-code	RFC 3261 [1], section 7.1	Ca23.02	Ca23.01		
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	Ca23.02	Ca23.01		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	Ca23.05	Ca23.03		
2.2	Accept-Encoding	RFC 3261 [1], section 20	Ca23.05	Ca23.03		
2.3	Accept-Language	RFC 3261 [1], section 20	Ca23.05	Ca23.03		
2.4	Alert-Info	RFC 3261 [1], section 20	Ca23.06	Ca23.07		
2.5	Allow	RFC 3261 [1], section 20	Ca23.02	Ca23.01		
2.6	Authentication-Info	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.7	Call-ID	RFC 3261 [1], section 20	Ca23.02	Ca23.01		
2.8	Call-Info	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.9	Contact	RFC 3261 [1], section 20	Ca23.08	Ca23.01		
2.10	Content-Disposition	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.11	Content-Encoding	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.12	Content-Language	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.13	Content-Length	RFC 3261 [1], section 20	Ca23.09	Ca23.01		
2.14	Content-Type	RFC 3261 [1], section 20	Ca23.10	Ca23.01		
2.15	CSeq	RFC 3261 [1], section 20	Ca23.02	Ca23.01		
2.16	Date	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.17	Error-Info	RFC 3261 [1], section 20	Ca23.11	Ca23.12		
2.18	Expires	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.19	From	RFC 3261 [1], section 20	Ca23.02	Ca23.01		
2.20	MIME-Version	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.21	Organization	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.22	Proxy-Authenticate	RFC 3261 [1], section 20	Ca23.13	Ca23.14		
2.23	Record-Route	RFC 3261 [1], section 20	Ca23.15	Ca23.16		
2.24	Reply-To	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.25	Require	RFC 3261 [1], section 20	Ca23.04	Ca23.01		
2.26	Retry-After	RFC 3261 [1], section 20	Ca23.17	Ca23.18		
2.27	Server	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.28	Supported	RFC 3261 [1], section 20	Ca23.23	Ca23.24		
2.29	Timestamp	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.30	То	RFC 3261 [1], section 20	Ca23.02	Ca23.01		
2.31	Unsupported	RFC 3261 [1], section 20	Ca23.19	Ca23.20		
2.32	User-Agent	RFC 3261 [1], section 20	Ca23.04	Ca23.03		
2.33	Via	RFC 3261 [1], section 20	Ca23.02	Ca23.01		
2.34	Warning	RFC 3261 [1], section 20	Ca23.04	Ca23.03		

Item	Parameters name	Reference	Sta	itus	Sup	port	
			Sending	Receiving	Sending	Receiving	
2.35	WWW-Authenticate	RFC 3261 [1], section 20	Ca23.21	Ca23.22			
3	Body	RFC 3261 [1], section 7.4	Ca23.04	Ca23.01			
Ca23.01	IF A.16/1.1 THEN M E	LSE N/A UAC procedures.					
Ca23.02	IF A.16/1.2 THEN M E	LSE N/A UAS procedures.					
Ca23.03	IF A.16/1.1 THEN O E	LSE N/A UAC procedures.					
Ca23.04	IF A.16/1.2 THEN O E	LSE N/A UAS procedures.					
		s=415) THEN M ELSE (IF A	16/1.2 THE	N O ELSE N	/A).		
Ca23.06	.06 IF (A.16/1.2 AND status=180) THEN O ELSE N/A.						
Ca23.07	`	s=180) THEN O ELSE N/A.					
Ca23.08		s=200) THEN M ELSE (IF A					
Ca23.09	,	3/3 OR A.35/2)) THEN M ELS	`		ELSE N/A).		
		/3) THEN M ELSE (IF A.16/1		ELSE N/A).			
		s=300-699) THEN O ELSE N					
Ca23.12	`	s=300-699) THEN O ELSE N					
		s=407) THEN M ELSE IF ((A					
		s=407) THEN M ELSE IF ((A		o status=401)) THEN O EI	LSE N/A).	
		s=18X-2XX) THEN O ELSE					
		s=18X-2XX) THEN M ELSE					
Ca23.17		s= (404,413,480,486,500,50					
Ca23.18	,	s= (404,413,480,486,500,50	3,600,603))	THEN O ELS	SE N/A.		
	`	s=420) THEN M ELSE N/A.					
Ca23.20	,	s=420) THEN M ELSE N/A.					
Ca23.21		s=401) THEN M ELSE IF ((A					
		s=401) THEN M ELSE IF ((A	16/1.1 AND	status=407) THEN O EI	LSE N/A).	
Ca23.23		s=2XX) THEN M ELSE N/A.					
Ca23.24	· · · · · · · · · · · · · · · · · · ·	s=2XX) THEN M ELSE N/A.					
NOTE:		C 3261 [1] shall be set to "S	IP/2.0".				
Commen ^a	ts:						

A.6.3.2.4 re-INVITE parameters

A.6.3.2.4.1 re-INVITE request parameters

Table A.24: re-INVITE Request parameters

	site: A.2/2 and A.1/1	Peference	C+-		C	nort
Item	Parameters name	Reference		atus		port
			Sending	Receiving	Sending	Receiving
1	Request-Line					
1.1	Method	RFC 3261 [1], section 7.1	Ca24.01	Ca24.02		
			(see note 1)			
1.2	Request-URI	RFC 3261 [1], section 7.1	Ca24.01	Ca24.02		
1.3	SIP-Version	RFC 3261 [1], section 7.1	Ca24.01	Ca24.02		
				(see note 2)		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.2	Accept-Encoding	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.3	Accept-Language	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.4	Alert-Info	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.5	Allow	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.6	Authorization	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.7	Call-ID	RFC 3261 [1], section 20	Ca24.01	Ca24.02		
2.8	Call-Info	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.9	Contact	RFC 3261 [1], section 20	Ca24.01	Ca24.02		
2.10	Content-Disposition	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.11	Content-Encoding	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.12	Content-Language	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.13	Content-Length	RFC 3261 [1], section 20	Ca24.05	Ca24.02		
2.14	Content-Type	RFC 3261 [1], section 20	Ca24.06	Ca24.02		
2.15	CSeq	RFC 3261 [1], section 20	Ca24.01	Ca24.02		

Item	Parameters name	Reference	Sta	itus		port
			Sending	Receiving	Sending	Receiving
2.16	Date	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.17	Expires	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.18	From	RFC 3261 [1], section 20	Ca24.01	Ca24.02		
2.19	In-Reply-To	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.20	Max-Forwards	RFC 3261 [1], section 20	Ca24.01	Ca24.04		
2.21	MIME-Version	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.22	Organization	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.23	Priority	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.24	Proxy-Authorization	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.25	Proxy-Require	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.26	Record-Route	RFC 3261 [1], section 20	Ca24.03	Ca24.02		
2.27	Reply-To	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.28	Require	RFC 3261 [1], section 20	Ca24.03	Ca24.02		
2.29	Route	RFC 3261 [1], section 20	Ca24.01	Ca24.02		
2.30	Server	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.31	Subject	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.32	Supported	RFC 3261 [1], section 20	Ca24.01	Ca24.02		
2.33	Timestamp	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.34	То	RFC 3261 [1], section 20	Ca24.01	Ca24.02		
2.35	User-Agent	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
2.36	Via	RFC 3261 [1], section 20	Ca24.01	Ca24.02		
2.37	Warning	RFC 3261 [1], section 20	Ca24.03	Ca24.04		
3	Body	RFC 3261 [1], section 7.4	Ca24.03	Ca24.02		
Ca24.01	IF A.16/2.1 THEN M E	LSE N/A UAC procedures.				
		LSE N/A UAS procedures.				
		LSE N/A UAC procedures.				
		LSE N/A UAS procedures.				
		/3 OR A.35/2) THEN M ELSE	О.			
	IF (A.16/2.1 AND A.24					
	Set to "INVITE" value		ID (0, 0)			
		FC 3261 [1] shall be set to "S	IP/2.0".			
Commen	is:					

A.6.3.2.4.2 re-INVITE response parameters

Table A.25: re-INVITE response parameters

Item	Parameters name	Reference	Sta	atus	Su	oport
			Sending	Receiving	Sending	Receiving
1	Status-Line					
1.1	SIP-Version	RFC 3261 [1], section 7.1	Ca25.02	Ca25.01		
			(see note)			
1.2	Status-code	RFC 3261 [1], section 7.1	Ca25.02	Ca25.01		
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	Ca25.02	Ca25.01		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	Ca25.05	Ca25.03		
2.2	Accept-Encoding	RFC 3261 [1], section 20	Ca25.05	Ca25.03		
2.3	Accept-Language	RFC 3261 [1], section 20	Ca25.05	Ca25.03		
2.4	Alert-Info	RFC 3261 [1], section 20	Ca25.06	Ca25.07		
2.5	Allow	RFC 3261 [1], section 20	Ca25.02	Ca25.01		
2.6	Authentication-Info	RFC 3261 [1], section 20	Ca25.04	Ca25.03		
2.7	Call-ID	RFC 3261 [1], section 20	Ca25.02	Ca25.01		
2.8	Call-Info	RFC 3261 [1], section 20	Ca25.04	Ca25.03		
2.9	Contact	RFC 3261 [1], section 20	Ca25.08	Ca25.01		
2.10	Content-Disposition	RFC 3261 [1], section 20	Ca25.04	Ca25.03		
2.11	Content-Encoding	RFC 3261 [1], section 20	Ca25.04	Ca25.03		
2.12	Content-Language	RFC 3261 [1], section 20	Ca25.04	Ca25.03		
2.13	Content-Length	RFC 3261 [1], section 20	Ca25.09	Ca25.01		
2.14	Content-Type	RFC 3261 [1], section 20	Ca25.10	Ca25.01		

2.16 Date RFC 3261 2.17 Error-Info RFC 3261 2.18 Expires RFC 3261 2.19 From RFC 3261 2.20 MIME-Version RFC 3261 2.21 Organization RFC 3261 2.22 Proxy-Authenticate RFC 3261 2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20 C [1], section 20 C	Ca25.02 Ca25.04 Ca25.11 Ca25.04 Ca25.02 Ca25.04	Receiving Ca25.01 Ca25.03 Ca25.12 Ca25.03 Ca25.01 Ca25.01 Ca25.03	Sending	Receiving
2.16 Date RFC 3261 2.17 Error-Info RFC 3261 2.18 Expires RFC 3261 2.19 From RFC 3261 2.20 MIME-Version RFC 3261 2.21 Organization RFC 3261 2.22 Proxy-Authenticate RFC 3261 2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	1], section 20 C [1], section 20 C	Ca25.04 Ca25.11 Ca25.04 Ca25.02 Ca25.04	Ca25.03 Ca25.12 Ca25.03 Ca25.01		
2.17 Error-Info RFC 3261 2.18 Expires RFC 3261 2.19 From RFC 3261 2.20 MIME-Version RFC 3261 2.21 Organization RFC 3261 2.22 Proxy-Authenticate RFC 3261 2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	1], section 20 C 1], section 20 C 1], section 20 C 1], section 20 C 1], section 20 C	Ca25.11 Ca25.04 Ca25.02 Ca25.04	Ca25.12 Ca25.03 Ca25.01		
2.18 Expires RFC 3261 2.19 From RFC 3261 2.20 MIME-Version RFC 3261 2.21 Organization RFC 3261 2.22 Proxy-Authenticate RFC 3261 2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	1], section 20 C [1], section 20 C [1], section 20 C [1], section 20 C	Ca25.04 Ca25.02 Ca25.04	Ca25.03 Ca25.01		_
2.19 From RFC 3261 2.20 MIME-Version RFC 3261 2.21 Organization RFC 3261 2.22 Proxy-Authenticate RFC 3261 2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	1], section 20 (1], section 20 (1], section 20 (1)	Ca25.02 Ca25.04	Ca25.01		
2.20 MIME-Version RFC 3261 2.21 Organization RFC 3261 2.22 Proxy-Authenticate RFC 3261 2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20 C [1], section 20 C	Ca25.04			
2.21 Organization RFC 3261 2.22 Proxy-Authenticate RFC 3261 2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20		Ca25 02		
2.22 Proxy-Authenticate RFC 3261 2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261		Ca25.04	Ca25.03		
2.23 Record-Route RFC 3261 2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261			Ca25.03		
2.24 Reply-To RFC 3261 2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20 C	Ca25.13	Ca25.14		
2.25 Require RFC 3261 2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20 C	Ca25.15	Ca25.16		
2.26 Retry-After RFC 3261 2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20	Ca25.04	Ca25.03		
2.27 Server RFC 3261 2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20	Ca25.04	Ca25.01		
2.28 Supported RFC 3261 2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20	Ca25.17	Ca25.18		
2.29 Timestamp RFC 3261 2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20	Ca25.04	Ca25.03		
2.30 To RFC 3261 2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20 C	Ca25.23	Ca25.24		
2.31 Unsupported RFC 3261 2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20	Ca25.04	Ca25.03		
2.32 User-Agent RFC 3261 2.33 Via RFC 3261	[1], section 20	Ca25.02	Ca25.01		
2.33 Via RFC 3261	[1], section 20	Ca25.19	Ca25.20		
	[1], section 20 C	Ca25.04	Ca25.03		
0.04	[1], section 20	Ca25.02	Ca25.01		
2.34 Warning RFC 3261		Ca25.04	Ca25.03		
2.35 WWW-Authenticate RFC 3261		Ca25.21	Ca25.22		
3 Body RFC 3261	[1], section 20	2-25-04	Ca25.01		
Ca25.01 IF A.16/2.1 THEN M ELSE N/A - Ca25.02 IF A.16/2.2 THEN M ELSE N/A -	[1], section 20 C [1], section 20 C	Ca25.04		<u> </u>	

- Ca25.03 IF A.16/2.1 THEN O ELSE N/A -- UAC procedures.
- Ca25.04 IF A.16/2.2 THEN O ELSE N/A -- UAS procedures.
- Ca25.05 IF (A.16/2.2 AND status=415) THEN M ELSE (IF A.16/2.2 THEN O ELSE N/A).
- Ca25.06 IF (A.16/2.2 AND status=180) THEN O ELSE N/A.
- Ca25.07 IF (A.16/2.1 AND status=180) THEN O ELSE N/A.
- Ca25.08 IF (A.16/2.2 AND status=200) THEN M ELSE (IF A.16/2.2 THEN O ELSE N/A).
- Ca25.09 IF (A.16/2.2 AND (A.25/3 OR A.35/2)) THEN M ELSE (IF A.16/2.2 THEN O ELSE N/A).
- Ca25.10 IF (A.16/2.2 AND A.25/3) THEN M ELSE (IF A.16/2.2 THEN O ELSE N/A).
- Ca25.11 IF (A.16/2.2 AND status=300-699) THEN O ELSE N/A.
- Ca25.12 IF (A.16/2.1 AND status=300-699) THEN O ELSE N/A.
- Ca25.13 IF (A.16/2.2 AND status=407) THEN M ELSE IF ((A.16/2.2 AND status=401) THEN O ELSE N/A).
- Ca25.14 IF (A.16/2.1 AND status=407) THEN M ELSE IF ((A.16/2.1 AND status=401) THEN O ELSE N/A). Ca25.15 IF (A.16/2.2 AND status=18X-2XX) THEN O ELSE N/A.
- Ca25.16 IF (A.16/2.1 AND status=18X-2XX) THEN M ELSE N/A.
- Ca25.17 IF (A.16/2.2 AND status= (404,413,480,486,500,503,600,603)) THEN O ELSE N/A.
- Ca25.18 IF (A.16/2.1 AND status= (404,413,480,486,500,503,600,603)) THEN O ELSE N/A.
- Ca25.19 IF (A.16/2.2 AND status=420) THEN M ELSE N/A.
- Ca25.20 IF (A.16/2.1 AND status=420) THEN M ELSE N/A.
- Ca25.21 IF (A.16/2.2 AND status=401) THEN M ELSE IF ((A.16/1.2 AND status=407) THEN O ELSE N/A). Ca25.22 IF (A.16/2.1 AND status=401) THEN M ELSE IF ((A.16/1.1 AND status=407) THEN O ELSE N/A).
- Ca25.23 IF (A.16/2.2 AND status=2XX) THEN M ELSE N/A.
- Ca25.24 IF (A.16/2.1 AND status=2XX) THEN M ELSE N/A. NOTE: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Comments:

A.6.3.2.5 ACK

A.6.3.2.5.1 ACK request parameters

Table A.26: ACK Request parameters

Item	Parameters name	Reference	Sta	itus	Sup	port
			Sending	Receiving	Sending	Receiving
1	Request-Line					
1.1	Method	RFC 3261 [1], section 7.1	Ca26.01	Ca26.02		
			(see note 1)			
1.2	Request-URI	RFC 3261 [1], section 7.1	Ca26.01	Ca26.02		
1.3	SIP-Version	RFC 3261 [1], section 7.1	Ca26.01	Ca26.02		
				(see note 2)		
2	Headers	I===	T		Т	1
2.1	Authorization	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.2	Call-ID	RFC 3261 [1], section 20	Ca26.01	Ca26.02		
2.3	Contact	RFC 3261 [1], section 20	Ca26.03	Ca26.02		
2.4	Content-Disposition	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.5	Content-Encoding	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.6	Content-Language	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.7	Content-Length	RFC 3261 [1], section 20	Ca26.05	Ca26.02		
2.8	Content-Type	RFC 3261 [1], section 20	Ca26.06	Ca26.02		
2.9	CSeq	RFC 3261 [1], section 20	Ca26.01	Ca26.02		
2.10	Date	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.11	From	RFC 3261 [1], section 20	Ca26.01	Ca26.02		
2.12	Max-Forwards	RFC 3261 [1], section 20	Ca26.01	Ca26.02		
2.13	MIME-Version	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.14	Proxy-Authorization	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.15	Record-Route	RFC 3261 [1], section 20	Ca26.03	Ca26.02		
2.16	Route	RFC 3261 [1], section 20	Ca26.01	Ca26.02		
2.17	Timestamp	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.18	То	RFC 3261 [1], section 20	Ca26.01	Ca26.02		
2.19	User-Agent	RFC 3261 [1], section 20	Ca26.03	Ca26.04		
2.20	Via	RFC 3261 [1], section 20	Ca26.01	Ca26.02		
3	Body	RFC 3261 [1], section 7.4	Ca26.03	Ca26.02		
	IF A.16/1.2 THEN M	ELSE N/A UAC procedure	S.			
a26.04	IF A.16/1.2 THEN O	ELSE N/A UAC procedures ELSE N/A UAS procedures				
	IF (A.26/3 OR A.35/2					
	IF A.26/3 THEN M E					
	Set to "ACK" value in					
		RFC 3261 [1] shall be set to "	SIP/2.0".			
ommer						

A.6.3.2.6 BYE parameters

A.6.3.2.6.1 BYE request parameters

Table A.27: BYE Request parameters

Item	Parameters name	Reference	Status		Status Support		port
			Sending	Receiving	Sending	Receiving	
1	Request-Line						
1.1	Method	RFC 3261 [1], section 7.1	M	М			
			(see note 1)				
1.2	Request-URI	RFC 3261 [1], section 7.1	M	M			
1.3	SIP-Version	RFC 3261 [1], section 7.1	М	M			
				(see note 2)			

Item	Parameters name	Reference	Sta	itus	Sup	port
			Sending	Receiving	Sending	Receiving
2	Headers	•				
2.1	Accept	RFC 3261 [1], section 20	0	0		
2.2	Accept-Encoding	RFC 3261 [1], section 20	0	0		
2.3	Accept-Language	RFC 3261 [1], section 20	0	0		
2.4	Allow	RFC 3261 [1], section 20	0	0		
2.5	Authorization	RFC 3261 [1], section 20	0	0		
2.6	Call-ID	RFC 3261 [1], section 20	М	M		
2.7	Content-Disposition	RFC 3261 [1], section 20	0	0		
2.8	Content-Encoding	RFC 3261 [1], section 20	0	0		
2.9	Content-Language	RFC 3261 [1], section 20	0	0		
2.10	Content-Length	RFC 3261 [1], section 20	Ca27.01	M		
2.11	Content-Type	RFC 3261 [1], section 20	Ca27.02	M		
2.12	CSeq	RFC 3261 [1], section 20	М	M		
2.13	Date	RFC 3261 [1], section 20	0	0		
2.14	From	RFC 3261 [1], section 20	М	М		
2.15	Max-Forwards	RFC 3261 [1], section 20	М	M		
2.16	MIME-Version	RFC 3261 [1], section 20	0	0		
2.17	Proxy-Authorization	RFC 3261 [1], section 20	0	0		
2.18	Proxy-Require	RFC 3261 [1], section 20	0	0		
2.19	Record-Route	RFC 3261 [1], section 20	0	M		
2.20	Require	RFC 3261 [1], section 20	0	M		
2.21	Route	RFC 3261 [1], section 20	М	M		
2.22	Server	RFC 3261 [1], section 20	0	0		
2.23	Supported	RFC 3261 [1], section 20	0	0		
2.24	Timestamp	RFC 3261 [1], section 20	0	0		
2.25	То	RFC 3261 [1], section 20	М	M		
2.26	User-Agent	RFC 3261 [1], section 20	0	0		
2.27	Via	RFC 3261 [1], section 20	М	M		
2.28	Warning	RFC 3261 [1], section 20	0	0		
3	Body	RFC 3261 [1], section 7.4	0	0		
Ca27.01	IF (A.27/3 OR A.35/2)					
	IE À 27/3 THEN M EÍ					

Ca27.02 IF A.27/3 THEN M ELSE O.
NOTE 1: Set to "BYE" value in this case.

NOTE 2: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Comments:

A.6.3.2.6.2 BYE response parameters

Table A.28: BYE response parameters

Prerequi	isite: A.2/2 and A.1/1					
Item	Parameters name	Reference	Status		Sup	port
			Sending	Receiving	Sending	Receiving
1	Status-Line	•				
1.1	SIP-Version	RFC 3261 [1], section 7.1	M	M		
			(see note)			
1.2	Status-code	RFC 3261 [1], section 7.1	M	M		
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	M	M		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	0	0		
2.2	Accept-Encoding	RFC 3261 [1], section 20	0	0		
2.3	Accept-Language	RFC 3261 [1], section 20	0	0		
2.5	Allow	RFC 3261 [1], section 20	0	0		
2.6	Authentication-Info	RFC 3261 [1], section 20	Ca28.01	Ca28.01		
2.7	Call-ID	RFC 3261 [1], section 20	M	M		
2.8	Contact	RFC 3261 [1], section 20	Ca28.02	Ca28.02		
2.9	Content-Disposition	RFC 3261 [1], section 20	0	0		
2.10	Content-Encoding	RFC 3261 [1], section 20	0	0	-	
2.11	Content-Language	RFC 3261 [1], section 20	0	0		

Item	Parameters name	Reference	Sta			port
			Sending	Receiving	Sending	Receiving
2.12	Content-Length	RFC 3261 [1], section 20	Ca28.03	M		
2.13	Content-Type	RFC 3261 [1], section 20	Ca28.04	M		
2.14	CSeq	RFC 3261 [1], section 20	M	M		
2.15	Date	RFC 3261 [1], section 20	0	0		
2.16	Error-Info	RFC 3261 [1], section 20	Ca28.05	Ca28.05		
2.17	From	RFC 3261 [1], section 20	M	M		
2.18	MIME-Version	RFC 3261 [1], section 20	0	0		
2.19	Proxy-Authenticate	RFC 3261 [1], section 20	Ca28.06	Ca28.06		
2.20	Record-Route	RFC 3261 [1], section 20	Ca28.10	M		
2.21	Require	RFC 3261 [1], section 20	0	M		
2.22	Retry-After	RFC 3261 [1], section 20	Ca28.07	Ca28.07		
2.23	Server	RFC 3261 [1], section 20	0	0		
2.24	Supported	RFC 3261 [1], section 20	Ca28.08	Ca28.08		
2.25	Timestamp	RFC 3261 [1], section 20	0	0		
2.26	То	RFC 3261 [1], section 20	M	M		
2.27	Unsupported	RFC 3261 [1], section 20	Ca28.11	Ca28.11		
2.28	User-Agent	RFC 3261 [1], section 20	0	0		
2.29	Via	RFC 3261 [1], section 20	M	M		
2.30	Warning	RFC 3261 [1], section 20	0	0		
2.31	WWW-Authenticate	RFC 3261 [1], section 20	Ca28.09	Ca28.09		
3	Body	RFC 3261 [1], section 7.4	0	0		
Ca28.01	IF (status=180) THEN	O ELSE N/A.				
Ca28.01	•	atus=3XX) THEN O ELSE N/A	۸.			
Ca28.03	IF (A.28/3 OR A.35/2)					
Ca28.04						
Ca28.05			EN 0 El 0E 1	.1/4.		
Ca28.06		M ELSE(IF (status=401) TH				
Ca28.07		180,486,500,503,600,603)) TH	HEN O ELSE	N/A.		
Ca28.08 Ca28.09		N O ELSE N/A. I M ELSE(IF (status=407) THI	EN O EL SE M	M/Λ)		
Ca28.10		atus=18X) THEN O ELSE N/		w <i>∩</i>).		
Ca28.11	IF (status=420) THEN		٠.			
NOTE:		FC 3261 [1] shall be set to "S	SIP/2.0".			
Comment						

A.6.3.2.7 CANCEL parameters

A.6.3.2.7.1 CANCEL request parameters

Table A.29: CANCEL Request parameters

Prerequ	Prerequisite: A.2/2 and A.1/1								
Item	Parameters name	Reference	Sta	Status		port			
			Sending	Receiving	Sending	Receiving			
1	Request-Line								
1.1	Method	RFC 3261 [1], section 7.1	М	M					
			(see note 1)						
1.2	Request-URI	RFC 3261 [1], section 7.1	M	M					
1.3	SIP-Version	RFC 3261 [1], section 7.1	M	M					
				(see note 2)					
2	Headers								
2.1	Authorization	RFC 3261 [1], section 20	0	0					
2.2	Call-ID	RFC 3261 [1], section 20	M	M					
2.3	Content-Length	RFC 3261 [1], section 20	Ca29.01	M					
2.4	CSeq	RFC 3261 [1], section 20	M	M					
2.5	Date	RFC 3261 [1], section 20	0	0					
2.6	From	RFC 3261 [1], section 20	М	М					
2.7	Max-Forwards	RFC 3261 [1], section 20	M	M					
2.8	Proxy-Require	RFC 3261 [1], section 20	Х	X					

Prerequisite: A.2/2 and A.1/1									
Item	Parameters name	Reference Status		Support					
			Sending	Receiving	Sending	Receiving			
2.9	Record-Route	RFC 3261 [1], section 20	0	M					
2.10	Route	RFC 3261 [1], section 20	М	M					
2.11	Require	RFC 3261 [1], section 20	Х	X					
2.12	Server	RFC 3261 [1], section 20	0	0					
2.13	Supported	RFC 3261 [1], section 20	0	0					
2.14	Timestamp	RFC 3261 [1], section 20	0	0					
2.15	То	RFC 3261 [1], section 20	М	M					
2.16	User-Agent	RFC 3261 [1], section 20	0	0					
2.17	Via	RFC 3261 [1], section 20	М	M					
2.18	Warning	RFC 3261 [1], section 20	0	0					
Ca29.01									

NOTE 1: Set to "CANCEL" value in this case.

NOTE 2: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Comments:

A.6.3.2.7.2 CANCEL response parameters

Table A.30: CANCEL response parameters

Item	Parameters name	Reference	Status		Support	
			Sending	Receiving	Sending	Receiving
1	Status-Line	•				
1.1	SIP-Version	RFC 3261 [1], section 7.1	M	M		
			(see note)			
1.2	Status-code	RFC 3261 [1], section 7.1	M	M		
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	M	M		
2	Headers					
2.1	Call-ID	RFC 3261 [1], section 20	M	M		
2.2	Content-Length	RFC 3261 [1], section 20	Ca30.01	М		
2.3	CSeq	RFC 3261 [1], section 20	M	M		
2.4	Date	RFC 3261 [1], section 20	0	0		
2.5	Error-Info	RFC 3261 [1], section 20	Ca30.02	Ca30.02		
2.6	From	RFC 3261 [1], section 20	M	M		
2.7	Proxy-Authenticate	RFC 3261 [1], section 20	Ca30.03	Ca30.03		
2.8	Record-Route	RFC 3261 [1], section 20	Ca30.04	Ca30.04		
2.9	Require	RFC 3261 [1], section 20	Х	Х		
2.10	Retry-After	RFC 3261 [1], section 20	Ca30.05	Ca30.05		
2.11	Server	RFC 3261 [1], section 20	0	0		
2.12	Supported	RFC 3261 [1], section 20	Ca30.06	Ca30.06		
2.13	Timestamp	RFC 3261 [1], section 20	0	0		
2.14	То	RFC 3261 [1], section 20	M	М		
2.15	User-Agent	RFC 3261 [1], section 20	0	0		
2.16	Via	RFC 3261 [1], section 20	М	М		
2.17	Warning	RFC 3261 [1], section 20	0	0		
2.18	WWW-Authenticate	RFC 3261 [1], section 20	Ca30.07	Ca30.07		

Ca30.01 IF A.35/2 THEN M ELSE O.

Ca30.02 IF (status=300-699) THEN O ELSE N/A.

Ca30.03 IF (status=401) THEN O ELSE N/A.

Ca30.04 IF (status=2XX OR status=18X) THEN O ELSE N/A.

Ca30.05 IF (status= (404,413,480,486,500,503,600,603)) THEN O ELSE N/A.

Ca30.06 IF (status=2XX) THEN O ELSE N/A.

Ca30.07 IF (status=401) THEN M ELSE(IF (status=407) THEN O ELSE N/A).

NOTE: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Comments:

A.6.3.3 Call Control Security

A.6.3.3.1 Call Control Security capabilities

Table A.31: Call Control Security capabilities

Prerequisite: A.2/2 and A.1/1					
Item	Security capabilities	Reference	Status	Support	
1	HTTP Authentication	RFC 3261 [1], sections 22 and 26.2.3	Ca31.01		
2	S/MIME	RFC 3261 [1], sections 23 and 26.2.4	0		
3	TLS	RFC 3261 [1], section 26.2.1	0		
Ca31.01 IF (A.31/3) THEN M ELSE O.					
Comments:					

A.6.3.3.2 HTTP parameters

Table A.32: Access Authentication

Prerequisite: A.31/1, A.2/2 and A.1/1					
Item	Parameters name	Reference	Status	Support	
1	Basic	RFC 2617 [3], section 2	Х		
2	Digest	RFC 2617 [3], section 3	M		
Comment	S:				

Table A.33: Proxy-Authenticate/Authenticate header

Prerequisite: A.31/1, A.2/2 and A.1/1				
Item	Parameters name	Reference	Status	Support
1	realm	RFC 2617 [3], section 3.2.1	М	
2	domain	RFC 2617 [3], section 3.2.1	0	
3	nonce	RFC 2617 [3], section 3.2.1	М	
4	opaque	RFC 2617 [3], section 3.2.1	0	
5	stale	RFC 2617 [3], section 3.2.1	0	
6	algorithm	RFC 2617 [3], section 3.2.1	0	
7	qop-options	RFC 2617 [3], section 3.2.1	0	
8	auth-param	RFC 2617 [3], section 3.2.1	0	
NOTE:	If a UAC receives a qop-opti	ons header in an Authenticate the	n message-	quop is
	mandatory.			
Comme	nts:		•	

Table A.34: Proxy- Authorization /Authorization header

Prerequisite: A.31/1, A.2/2 and A.1/1					
Item	Parameters name	Reference	Status	Support	
1	username	RFC 2617 [3], section 3.2.2	М		
2	realm	RFC 2617 [3], section 3.2.2	M		
3	nonce	RFC 2617 [3], section 3.2.2	M		
4	digest-uri	RFC 2617 [3], section 3.2.2	M		
5	response	RFC 2617 [3], section 3.2.2	M		
6	algorithm	RFC 2617 [3], section 3.2.2	0		
7	cnonce	RFC 2617 [3], section 3.2.2	0		
8	opaque	RFC 2617 [3], section 3.2.2	0		
9	message-qop	RFC 2617 [3], section 3.2.2	0		
			(see note)		
10	nonce-count	RFC 2617 [3], section 3.2.2	0		
11	auth-param	RFC 2617 [3], section 3.2.2	0		
NOTE:	If a UAC receives a qop-options header in an Authenticate then message-quop is mandatory.				
Comments:					

A.6.3.4 Call Control Transport

Table A.35: Call Control transport

Prerequisite: A.2/2 and A.1/1					
Item	Transport	Reference	Status	Support	
1	UDP	RFC 3261 [1], section 18	M		
2	TCP	RFC 3261 [1], section 18	M		
3	Other transport	RFC 3261 [1], section 18	0		
Commen	ts:				

A.6.3.5 Call Control Addressing

A.6.3.5.1 URIs

Table A.36: Call Control URI

Item	URI scheme	Reference	Status	Support
1	SIP	RFC 3261 [1], section 19	M	
2	SIPS	RFC 3261 [1], section 19	Ca36.01	
Ca36.01	IF (A.31/3) THEN M ELSE O.			
Commer	its:			

A.6.3.5.2 IP address

Table A.37: Call Control IP Address

Prerequi	Prerequisite: A.2/1 and A.1/1				
Item	IP Address format	Reference	Status	Support	
1	IPv4	RFC 3261 [1], section 19	M		
2	IPv6	RFC 3261 [1], section 19	0		
Comment	ts:				

A.6.3.6 Call Control Timers

Table A.38: Call Control Timer

Prerequisite: A.2/2 and A.1/1					
Item	Timer	Reference	Status	Support	
1	T1	RFC 3261 [1], sections 17.1, 17.2 and table 4	Ca38.01		
2	T2	RFC 3261 [1], section 17.1.2.1 and table 4	Ca38.02		
3	T4	RFC 3261 [1], section 17.1.2.2 and table 4	Ca38.01		
4	Timer A	RFC 3261 [1], section 17.1.1.1.2 and table 4	Ca38.03		
5	Timer B	RFC 3261 [1], section 17.1.1.1.2 and table 4	Ca38.04		
6	Timer D	RFC 3261 [1], section 17.1.1.1.2 and table 4	Ca38.05		
			(see note)		
7	Timer E	RFC 3261 [1], section 17.1.2.2 and table 4	Ca38.06		
8	Timer F	RFC 3261 [1], section 17.1.2.2 and table 4	Ca38.07		
9	Timer G	RFC 3261 [1], section 17.2.1 and table 4	Ca38.08		
10	Timer H	RFC 3261 [1], section 17.2.1 and table 4	Ca38.09		
11	Timer I	RFC 3261 [1], section 17.2.1 and table 4	М		
			(see note)		
12	Timer J	RFC 3261 [1], section 17.2.2 and table 4	М	•	
			(see note)		

Prerequi	site: A.2/2 and A.1/1			
Item	Timer	Reference	Status	Support
13	Timer K	RFC 3261 [1], section 17.1.2.2 and table 4	M	
			(see note)	
Ca38.01	IF (A.35/1) THEN M EL	LSE N/A UDP.		
Ca38.02	IF ((A.16/1.2 OR A.16/	3.1 OR A.16/4.1) AND A.35/1) THEN M ELSE N	N/A INVITE res	ponse or
	Non-INVITE request pl	us UDP.		
Ca38.03	IF (A.16/1.1 AND A.35/1) THEN M ELSE N/A INVITE request plus UDP.			
Ca38.04	IF (A.16/1.1) THEN M	ELSE N/A.		
Ca38.05	IF (A.16/1.1) THEN O	ELSE N/A.		
Ca38.06	IF ((A.16/3.1 OR A.16/	4.1) AND A.35/1) THEN M ELSE N/A Non-IN	VITE request plu	s UDP.
Ca38.07	IF (A.16/3.1 OR A.16/4	1.1) THEN O ELSE N/A Non-INVITE request.		
Ca38.08	IF (A.16/1.2 AND A.35	/1) THEN M ELSE N/A.		
Ca38.09	IF (A.16/1.2) THEN M	ELSE N/A.		
NOTE:	Set to zero for reliable	transport.		
Commen	ts:			

A.6.3.7 Call Control SDP description

A.6.3.7.1 SDP types

Table A.39: SDP types

ltem	Types	Reference	Status	Support
1	Session level description			
1.1	v= (protocol version)	RFC 2327 [2], section 6	М	
1.2	o= (owner/creator and session identifier)	RFC 2327 [2], section 6	M	
1.3	s= (session name)	RFC 2327 [2], section 6	М	
1.4	i= (session information)	RFC 2327 [2], section 6	0	
1.5	u= (URI of description)	RFC 2327 [2], section 6	0	
1.6	e= (email address)	RFC 2327 [2], section 6	0	
1.7	p= (phone number)	RFC 2327 [2], section 6	0	
1.8	c= (connection information)	RFC 2327 [2], section 6	0	
1.9	b= (bandwidth information)	RFC 2327 [2], section 6	0	
1.10	z= (time zone adjustments)	RFC 2327 [2], section 6	0	
1.11	k= (encryption key)	RFC 2327 [2], section 6	0	
1.12	a= (zero or more session attribute lines)	RFC 2327 [2], section 6	0	
2	Time description (one or more pe	er description)		•
2.1	t= (time the session is active)	RFC 2327 [2], section 6	М	
2.2	r= (zero or more repeat times)	RFC 2327 [2], section 6	0	
3	Media description (zero or more	per description)		•
3.1	m= (media name and transport address)	RFC 2327 [2], section 6	M	
3.2	i= (media title)	RFC 2327 [2], section 6	0	
3.3	c= (connection information)	RFC 2327 [2], section 6	0	
3.4	b= (bandwidth information)	RFC 2327 [2], section 6	0	
3.5	k= (encryption key)	RFC 2327 [2], section 6	0	
3.6	a= (zero or more media attribute lines)	RFC 2327 [2], section 6	0	

A.6.3.7.2 SDP types parameters

Table A.40: session identifier type (o=)

ltem	Parameters	Reference	Status	Support
1	Username	RFC 2327 [2], section 6	М	
2	Session id	RFC 2327 [2], section 6	М	
3	Version	RFC 2327 [2], section 6	М	
4	Network type	RFC 2327 [2], section 6	М	
5	Address type	RFC 2327 [2], section 6	М	
6	Address	RFC 2327 [2], section 6	M	

Table A.41: connection type (c=)

Prerequi	Prerequisite: A.2/2, A.1/1 and (A.39/1.8 OR A.39/3.3)				
Item	Parameters	Reference	Status	Support	
1	Network type	RFC 2327 [2], section 6	M		
2	Address type	RFC 2327 [2], section 6	M		
3	Connection address	RFC 2327 [2], section 6	M		
Commen	ts:				

Table A.42: bandwidth information type (b=)

Prerequisite: A.2/2, A.1/1 and (A.39/1.9 OR A.39/3.4)				
Item	Parameters	Reference	Status	Support
1	Modifier	RFC 2327 [2], section 6	М	
2	Bandwidth-value	RFC 2327 [2], section 6	М	
Commen	ts:			

Table A.43: time zone adjustments type (z=)

Prerequisite: A.2/2, A.1/1 and A.39/1.10				
Item	Parameters	Reference	Status	Support
1	Adjustment time	RFC 2327 [2], section 6	M	
2	Offset	RFC 2327 [2], section 6	M	
Comments:	<adjustment time=""> <offset> c</offset></adjustment>	an be repeated.		

Table A.44: encryption key type (k=)

Prerequisite: A.2/2 and A.1/1 and A.39/1.11					
Item	Parameters	Reference	Status	Support	
1	Method	RFC 2327 [2], section 6	М		
2	Encryption key	RFC 2327 [2], section 6	0		
Comment	s:				

Table A.45: media attribute lines (a=)

ltem	Parameters	Reference	Status	Support
1	Category (a=cat)	RFC 2327 [2], section 6	0	
2	Keywords (a=keywds)	RFC 2327 [2], section 6	0	
3	Name and version of tool (a=tool)	RFC 2327 [2], section 6	0	
4	Packet time (a=ptime)		0	
5	Maximum packet time (a=maxptime)	RFC 2327 [2], section 6	0	
6	Receive-only mode (a=recvonly)	RFC 2327 [2], section 6	0	
7	Send and receive mode (a=sendrecv)	RFC 2327 [2], section 6	0	
8	Send-only mode (a=sendonly)	RFC 2327 [2], section 6	0	
9	Whiteboard orientation (a=orient)	RFC 2327 [2], section 6	0	
10	Conference type (a=type)	RFC 2327 [2], section 6	0	
11	Character set (a=charset)	RFC 2327 [2], section 6	0	
12	Language tag (a=sdplang)	RFC 2327 [2], section 6	0	
13	Language tag (a=lang)	RFC 2327 [2], section 6	0	
14	Frame rate (a=framerate)	RFC 2327 [2], section 6	0	
15	Quality (a=quality)	RFC 2327 [2], section 6	0	·
16	Format specific parameters (a=fmtp)	RFC 2327 [2], section 6	0	·
17	Rtpmap attribute (a=rtpmap)	RFC 2327 [2], section 6	0	

Table A.46: time session type (t=)

Prerequis	Prerequisite: A.2/2 and A.1/1				
Item	Parameters	Reference	Status	Support	
1	Start time	RFC 2327 [2], section 6	М		
2	Stop time	RFC 2327 [2], section 6	М		
Comment	s:				

Table A.47: repeat times type (r=)

Prerequi	Prerequisite: A.2/2, A.1/1 and A.39/2.2					
Item	Parameters	Reference	Status	Support		
1	Repeat interval	RFC 2327 [2], section 6	M			
2	Active duration	RFC 2327 [2], section 6	M			
Commen	ts:					

Table A.48: media Announcements type (m=)

Item	Parameters	Reference	Status	Support
1	Media	RFC 2327 [2], section 6	М	
2	Port	RFC 2327 [2], section 6	М	
3	Number of port	RFC 2327 [2], section 6	0	
4	Transport	RFC 2327 [2], section 6	М	
5	Fmt list	RFC 2327 [2], section 6	М	

A.6.4 Querying for capabilities

This clause contains the PICS proforma tables related to the querying for capabilities operations for the UA that supports it.

A.6.4.1 Querying for capabilities

Table A.49: Querying for capabilities procedures

Prerequisite: A.2/3 and A.1/1							
Item	procedures	Reference	Status	Support			
1	Asking for capabilities	RFC 3261 [1], section 11	0				
2	Answering to a capabilities query	RFC 3261 [1], section 11	Ca49.01				
Ca49.01	IF A.16/1.2 THEN M ELSE O UA	Server.					
Comment	s:						

A.6.4.2 Querying for capabilities Messages

A.6.4.2.1 Querying for capabilities Requests

Table A.50: Querying for capabilities Requests

Prerequisite: A.2/3 and A.1/1								
Item	Method	Reference	Sta	Status		port		
			Sending	Receiving	Sending	Receiving		
1	OPTIONS	RFC 3261 [1], section 11	Ca50.01	М				
Ca50.01	IF A.49/1 THEN M E	LSE N/A Client able to a	sk for capal	oilities.				
Commen	ts:							

A.6.4.2.2 Querying for capabilities Responses

A.6.4.2.2.1 Querying for capabilities OPTIONS Responses

Table A.51: Querying for capabilities OPTIONS Responses

Item	Status code	Reference	Status		Support	
			Sending	Receiving	Sending	Receiving
1	1XX	RFC 3261 [1], section 21.1.1	Х	Ca51.01	-	
2	2XX					
2.1	200	RFC 3261 [1], section 21.2	M	Ca51.01		
3	3XX					
3.1	300	RFC 3261 [1], section 21.3.1	0	Ca51.01		
3.2	301	RFC 3261 [1], section 21.3.2	0	Ca51.02		
3.3	302	RFC 3261 [1], section 21.3.3	0	Ca51.02		
3.4	305	RFC 3261 [1], section 21.3.4	0	Ca51.02		
3.5	380	RFC 3261 [1], section 21.3.5	0	Ca51.02		
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	0	Ca51.01		
4.2	401	RFC 3261 [1], section 21.4.2	0	Ca51.02		
4.3	402	RFC 3261 [1], section 21.4.3	0	Ca51.02		
4.4	403	RFC 3261 [1], section 21.4.4	0	Ca51.02		
4.5	404	RFC 3261 [1], section 21.4.5	0	Ca51.02		
4.6	405	RFC 3261 [1], section 21.4.6	Х	Ca51.02		
4.7	406	RFC 3261 [1], section 21.4.7	0	Ca51.02		
4.8	407	RFC 3261 [1], section 21.4.8	N/A	Ca51.02		
4.9	408	RFC 3261 [1], section 21.4.9	0	Ca51.02		
4.10	410	RFC 3261 [1], section 21.4.10	0	Ca51.02		

Item	Status code	Reference	Status		Support	·
			Sending	Receiving	Sending	Receiving
4.11	413	RFC 3261 [1], section 21.4.11	0	Ca51.02		
4.12	414	RFC 3261 [1], section 21.4.12	0	Ca51.02		
4.13	415	RFC 3261 [1], section 21.4.13	0	Ca51.02		
4.14	416	RFC 3261 [1], section 21.4.14	0	Ca51.02		
4.15	420	RFC 3261 [1], section 21.4.15	0	Ca51.02		
4.16	421	RFC 3261 [1], section 21.4.16	0	Ca51.02		
4.17	423	RFC 3261 [1], section 21.4.17	0	Ca51.02		
4.18	480	RFC 3261 [1], section 21.4.18	0	Ca51.02		
4.19	481	RFC 3261 [1], section 21.4.19	0	Ca51.02		
4.20	482	RFC 3261 [1], section 21.4.20	0	Ca51.02		
4.21	484	RFC 3261 [1], section 21.4.22	0	Ca51.02		
4.22	485	RFC 3261 [1], section 21.4.23	0	Ca51.02		
4.23	486	RFC 3261 [1], section 21.4.24	0	Ca51.02		
4.24	487	RFC 3261 [1], section 21.4.25	0	Ca51.02		
4.25	488	RFC 3261 [1], section 21.4.26	0	Ca51.02		
4.26	491	RFC 3261 [1], section 21.4.27	0	Ca51.02		
4.27	493	RFC 3261 [1], section 21.4.28	Ca51.03	Ca51.03		
5	5XX					
5.1	500	RFC 3261 [1], section 21.5.1	0	Ca51.01		
5.2	501	RFC 3261 [1], section 21.5.2	0	Ca51.02		
5.3	502	RFC 3261 [1], section 21.5.3	N/A	Ca51.02		
5.4	503	RFC 3261 [1], section 21.5.4	0	Ca51.02		
5.5	504	RFC 3261 [1], section 21.5.5	0	Ca51.02		
5.6	505	RFC 3261 [1], section 21.5.6	0	Ca51.02		
5.7	513	RFC 3261 [1], section 21.5.7	0	Ca51.02		
6	6XX	, <u>, , , , , , , , , , , , , , , , , , </u>				
6.1	600	RFC 3261 [1], section 21.6.1	0	Ca51.01		
6.2	603	RFC 3261 [1], section 21.6.2	0	Ca51.02		
6.3	604	RFC 3261 [1], section 21.6.3	0	Ca51.02		
6.4	606	RFC 3261 [1], section 21.6.4	0	Ca51.02		

Ca51.01 IF A.49/1 THEN M ELSE N/A -- Client able to ask for capabilities. Ca51.02 IF A.49/1 THEN O ELSE N/A.

Ca51.03 IF A.54/2 THEN M ELSE N/A -- S/MIME.

Comments: In any case, according to RFC 3261 [1], section 8.1.3.2: "A UAC MUST treat any final response it does not recognize as being equivalent to the x00 response code of that class". According to RFC 3261 [1], section 8.2.6.1 a UAS should not generate a provisional response for a non-INVITE request.

A.6.4.2.3 **OPTIONS** parameters

A.6.4.2.3.1 **OPTIONS** request parameters

Table A.52: OPTIONS Request parameters

Prereq	uisite: A.2/3 and A.1/1					
Item	Parameters name	Reference	Stat	us	Sup	port
			Sending	Receiving	Sending	Receiving
1	Request-Line	•				
1.1	Method	RFC 3261 [1], section 7.1	Ca52.01	M		
			(see note 1)			
1.2	Request-URI	RFC 3261 [1], section 7.1	Ca52.01	M		
1.3	SIP-Version	RFC 3261 [1], section 7.1	Ca52.01	M		
			(see note 2)			
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	Ca52.01	0		
2.2	Accept-Encoding	RFC 3261 [1], section 20	Ca52.02	0		
2.3	Accept-Language	RFC 3261 [1], section 20	Ca52.02	0		
2.4	Allow	RFC 3261 [1], section 20	Ca52.02	0		
2.5	Authorization	RFC 3261 [1], section 20	Ca52.03	Ca52.03		

Prerequ	isite: A.2/3 and A.1/1					
Item	Parameters name	Reference	Stat	us	Sup	port
			Sending	Receiving	Sending	Receiving
2.6	Call-ID	RFC 3261 [1], section 20	Ca52.01	М		
2.7	Call-Info	RFC 3261 [1], section 20	Ca52.02	0		
2.8	Contact	RFC 3261 [1], section 20	Ca52.02	0		
2.9	Content-Disposition	RFC 3261 [1], section 20	Ca52.02	0		
2.10	Content-Encoding	RFC 3261 [1], section 20	Ca52.02	0		
2.11	Content-Language	RFC 3261 [1], section 20	Ca52.02	0		
2.12	Content-Length	RFC 3261 [1], section 20	Ca52.04	M		
2.13	Content-Type	RFC 3261 [1], section 20	Ca52.05	M		
2.14	CSeq	RFC 3261 [1], section 20	Ca52.01	М		
2.15	Date	RFC 3261 [1], section 20	Ca52.02	0		
2.16	From	RFC 3261 [1], section 20	Ca52.01	M		
2.17	Max-Forwards	RFC 3261 [1], section 20	Ca52.01	M		
2.18	MIME-Version	RFC 3261 [1], section 20	Ca52.02	0		
2.19	Organization	RFC 3261 [1], section 20	Ca52.02	0		
2.20	Proxy-Authorization	RFC 3261 [1], section 20	Ca52.02	0		
2.21	Proxy-Require	RFC 3261 [1], section 20	Ca52.02	0		
2.22	Record-Route	RFC 3261 [1], section 20	Ca52.02	0		
2.23	Require	RFC 3261 [1], section 20	Ca52.02	0		
2.24	Route	RFC 3261 [1], section 20	Ca52.01	M		
2.25	Server	RFC 3261 [1], section 20	Ca52.02	0		
2.26	Supported	RFC 3261 [1], section 20	Ca52.02	0		
2.27	Timestamp	RFC 3261 [1], section 20	Ca52.02	0		
2.28	То	RFC 3261 [1], section 20	Ca52.01	M		
2.29	User-Agent	RFC 3261 [1], section 20	Ca52.02	0		
2.30	Via	RFC 3261 [1], section 20	Ca52.01	М		
2.31	Warning	RFC 3261 [1], section 20	Ca52.02	0		
3	Body	RFC 3261 [1], section 7.4	Ca52.02	0		
Ca52.02 Ca52.03		ELSE N/A. LSE N/A HTTP Authenticat				
) THEN M ELSE O Body or	r ICP.			
	IF A.52/3 THEN M EI					

A.6.4.2.3.2 OPTIONS response parameters

Comments:

NOTE 1: Set to "OPTIONS" value in this case.

NOTE 2: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Table A.53: OPTIONS response parameters

Item	uisite: A.2/3 and A.1/1 Parameters name	Reference	Sta	itus	Sup	port
			Sending	Receiving	Sending	Receiving
1	Status-Line					
1.1	SIP-Version	RFC 3261 [1], section 7.1	M	Ca53.01	М	
			(see note)			
1.2	Status-code	RFC 3261 [1], section 7.1	M	Ca53.01	М	
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	М	Ca53.01	М	
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	М	Ca53.01		
2.2	Accept-Encoding	RFC 3261 [1], section 20	M	Ca53.01		
2.3	Accept-Language	RFC 3261 [1], section 20	М	Ca53.01		
2.4	Allow	RFC 3261 [1], section 20	М	Ca53.01		
2.5	Authentication-Info	RFC 3261 [1], section 20	Ca53.03	Ca53.02		
2.6	Call-ID	RFC 3261 [1], section 20	М	Ca53.01		
2.7	Call-Info	RFC 3261 [1], section 20	0	Ca53.02		
2.8	Contact	RFC 3261 [1], section 20	0	Ca53.02		
2.9	Content-Disposition	RFC 3261 [1], section 20	0	Ca53.02		
2.10	Content-Encoding	RFC 3261 [1], section 20	0	Ca53.02	•	
2.11	Content-Language	RFC 3261 [1], section 20	0	Ca53.02		

Item	Parameters name	Reference	ference Status		Sup	port
			Sending	Receiving	Sending	Receiving
2.12	Content-Length	RFC 3261 [1], section 20	Ca53.04	Ca53.01		
2.13	Content-Type	RFC 3261 [1], section 20	Ca53.05	Ca53.01		
2.14	CSeq	RFC 3261 [1], section 20	M	Ca53.01		
2.15	Date	RFC 3261 [1], section 20	0	Ca53.02		
2.16	Error-Info	RFC 3261 [1], section 20	Ca53.06	Ca53.07		
2.17	From	RFC 3261 [1], section 20	M	Ca53.01		
2.18	MIME-Version	RFC 3261 [1], section 20	Ca53.04	Ca53.03		
2.19	Organization	RFC 3261 [1], section 20	Ca53.04	Ca53.03		
2.20	Proxy-Authenticate	RFC 3261 [1], section 20	Ca53.08	Ca53.09		
2.21	Record-Route	RFC 3261 [1], section 20	Ca53.10	Ca53.11		
2.22	Require	RFC 3261 [1], section 20	0	Ca53.02		
2.23	Retry-After	RFC 3261 [1], section 20	Ca53.12	Ca53.13		
2.24	Server	RFC 3261 [1], section 20	0	Ca53.02		
2.25	Supported	RFC 3261 [1], section 20	Ca53.14	Ca53.15		
2.26	Timestamp	RFC 3261 [1], section 20	0	Ca53.02		
2.27	То	RFC 3261 [1], section 20	M	Ca53.01		
2.28	Unsupported	RFC 3261 [1], section 20	Ca53.16	Ca53.17		
2.29	User-Agent	RFC 3261 [1], section 20	0	Ca53.02		
2.30	Via	RFC 3261 [1], section 20	М	Ca53.01		
2.31	Warning	RFC 3261 [1], section 20	0	Ca53.02		
2.32	WWW-Authenticate	RFC 3261 [1], section 20	Ca53.18	Ca53.19		
3	Body	RFC 3261 [1], section 7.4	0	Ca53.02		
	1 IF A.49/1 THEN M E					
	2 IF A. A.49/1 THEN C		_			
		LSE N/A HTTP Authentica				
	•	r) THEN M ELSE OBody o	r ICP.			
	5 IF A.53/3 THEN M E					
	6 IF (status=300-699)	s=300-699) THEN O ELSE I	\1/Δ			
		N M ELSE IF (status=401) T		- N/A)		
Ca53.09		is=407) THEN M ELSE IF ((A			HEN O ELS	SE N/A)
) IF (status=18X-2XX)		1.0 1/1 / 1110	101) 1	TIEN O LLO	<i>></i> ∟ 1 4 // (y).
Ca53.1	,	s=18X-2XX) THEN O ELSE	N/A.			
	\	480,486,500,503,600,603))		SE N/A.		
		s= (404,413,480,486,500,50			E N/A.	
	4 IF (status=2XX) THE		. , , , ,			
		s=2XX) THEN M ELSE N/A.				
	6 IF (status=420) THE					
		s=420) THEN M ELSE N/A.				
		N M ELSE IF ((status=407) 7				
		s=401) THEN M ELSE IF ((A		tatus=407) T	HEN O ELS	i⊨ N/A).
NOTE:		RFC 3261 [1] shall be set to	"SIP/2.0".			
Comme	nts:					

A.6.4.3 Querying for capabilities Security

A.6.4.3.1 Querying for capabilities Security capabilities

Table A.54: Querying for capabilities Security capabilities

Security capabilities	Reference	Status	Support
HTTP Authentication	RFC 3261 [1], sections 22 and 26.2.3	Ca54.01	
S/MIME	RFC 3261 [1], sections 23 and 26.2.4	0	
TLS	RFC 3261 [1], section 26.2.1	0	
IF (A.54/3) THEN M ELSE O.	·		
	S/MIME TLS IF (A.54/3) THEN M ELSE O.	S/MIME RFC 3261 [1], sections 23 and 26.2.4 TLS RFC 3261 [1], section 26.2.1	S/MIME RFC 3261 [1], sections 23 and 26.2.4 O TLS RFC 3261 [1], section 26.2.1 O

A.6.4.3.2 HTTP parameters

Table A.55: Access Authentication

Prerequisite: A.54/1, A.2/3 and A.1/1					
Item	Parameters name	Reference	Status	Support	
1	Basic	RFC 2617 [3], section 2	X		
2	Digest	RFC 2617 [3], section 3	М		
Comment	s:				

Table A.56: Authenticate header

Prerequisite: A.54/1, A.2/3 and A.1/1				
Item	Parameters name	Reference	Status	Support
1	realm	RFC 2617 [3], section 3.2.1	М	
2	domain	RFC 2617 [3], section 3.2.1	0	
3	nonce	RFC 2617 [3], section 3.2.1	М	
4	opaque	RFC 2617 [3], section 3.2.1	0	
5	stale	RFC 2617 [3], section 3.2.1	0	
6	algorithm	RFC 2617 [3], section 3.2.1	0	
7	qop-options	RFC 2617 [3], section 3.2.1	0	
8	auth-param	RFC 2617 [3], section 3.2.1	0	
NOTE:	If a UAC receives a qop-op mandatory.	tions header in an Authenticate	then message-	ai qoup
Commen	ts:		_	

Table A.57: Authorization header

Item	site: A.54/1, A.2/3 and A.1/1 Parameters name	Reference	Status	Support
1	username	RFC 2617 [3], section 3.2.2	М	
2	realm	RFC 2617 [3], section 3.2.2	M	
3	nonce	RFC 2617 [3], section 3.2.2	М	
4	digest-uri	RFC 2617 [3], section 3.2.2	M	
5	response	RFC 2617 [3], section 3.2.2	M	
6	algorithm	RFC 2617 [3], section 3.2.2	0	
7	cnonce	RFC 2617 [3], section 3.2.2	0	
8	opaque	RFC 2617 [3], section 3.2.2	0	
9	message-qop	RFC 2617 [3], section 3.2.2	0	
			(see note)	
10	nonce-count	RFC 2617 [3], section 3.2.2	0	
11	auth-param	RFC 2617 [3], section 3.2.2	0	
NOTE:	If a UAC receives a qop-optio	ns header in an Authenticate the	en message-	quop is
	mandatory.		_	
Commen	ts:			

A.6.4.4 Querying for capabilities transport

Table A.58: Querying for capabilities transport

ltem	Transport	Reference	Status	Support
1	UDP	RFC 3261 [1], section 18	М	
2	TCP	RFC 3261 [1], section 18	0	
3	Other transport	RFC 3261 [1], section 18	0	

A.6.4.5 Querying for capabilities Addressing

A.6.4.5.1 URIs

Table A.59: Call Control URI

Prerequis	Prerequisite: A.2/3 and A.1/1				
Item	URI scheme	Reference	Status	Support	
1	SIP	RFC 3261 [1], section 19	М		
2	SIPS	RFC 3261 [1], section 19	Ca59.01		
Ca59.01	IF (A.31/3) THEN M ELSE C).			
Comments	S:				

A.6.4.5.2 IP address

Table A.60: Call Control IP Address

Prerequis	Prerequisite: A.2/3 and A.1/1				
Item	IP Address format	Reference	Status	Support	
1	IPv4	RFC 3261 [1], section 19	M		
2	IPv6	RFC 3261 [1], section 19	0		
Comments	S:				

A.6.4.6 Querying for capabilities Timers

Table A.61: Querying for capabilities Timer

Prerequis	ite: A.2/3 and A.1/1				
Item	Timer	Reference	Status	Support	
1	T1	RFC 3261 [1], section 17.1.2.1 and table 4	Ca61.01		
2	T2	RFC 3261 [1], section 17.1.2.1 and table 4	Ca61.01		
3	T4	RFC 3261 [1], section 17.1.2.2 and table 4	Ca61.01		
4	Timer E	RFC 3261 [1], section 17.1.2.2 and table 4	Ca61.01		
5	Timer F	RFC 3261 [1], section 17.1.2.2 and table 4	0		
6	Timer J	RFC 3261 [1], section 17.2.2 and table 4	M		
			(see note)		
7	Timer K	RFC 3261 [1], section 17.1.2.2 and table 4	M		
			(see note)		
Ca61.01	IF A.58/1 THEN M EL	LSE X.			
NOTE:	DTE: set to zero for reliable transport.				
Comments	S:				

A.7 Registrar

This clause contains the PICS proforma tables related to the SIP Registrar.

A.7.1 Services

Table A.62: Services

Prerequisite: A.1/1				
Item	Services	Reference	Status	Support
1	Registration	RFC 3261 [1], section 10	M	
Comments	S:			

A.7.2 Registration service

This clause contains the PICS proforma tables related to the registration operations for the Registrar server.

A.7.2.1 Registration procedures

Table A.63: Registration procedures

Prerequisite: A.1/2				
Item	procedures	Reference	Status	Support
1	Maintaining Bindings	RFC 3261 [1], section 10.3	М	
2	Ordering contacts	RFC 3261 [1], section 10.2.1.2	0	
3	REGISTER redirection	RFC 3261 [1], section 10.3	0	
4	Unicast Registration	RFC 3261 [1], section 10.3	Oa63.01	
5	Multicast Registration	RFC 3261 [1], section 10.3	Oa63.01	
6	Third party Registration	RFC 3261 [1], sections 10.3 and 10.2	0	
Oa63.01	One at least shall be supported.			
Comment	s:			

A.7.2.2 Registration Messages

A.7.2.2.1 Registration Requests

Table A.64: Registration Request

Prerequi	Prerequisite: A.1/2				
Item	Method	Reference	Status receiving	Support	
1	REGISTER	RFC 3261 [1], section 10.3	М		
Commen	ts:				

A.7.2.2.2 Registration Responses

Table A.65: Registration Responses

	Status code	Reference	Status sending	Support		
1	1XX	RFC 3261 [1], sections 21.1 and 8.1.3.2	X			
2	2XX					
2.1	200	RFC 3261 [1], section 21.2	M			
3	3XX					
3.1	300	RFC 3261 [1], section 21.3.1	0			
3.2	301	RFC 3261 [1], section 21.3.2	0			
3.3	302	RFC 3261 [1], sections 21.3.3 and 10.3	0			
4	4XX	XX				
4.1	400	RFC 3261 [1], section 21.4.1	M			
4.2	401	RFC 3261 [1], section 21.4.2	0			
4.3	403	RFC 3261 [1], sections 21.4.4 and 10.3	М			
4.4	404	RFC 3261 [1], section 21.4.5	М			
4.5	406	RFC 3261 [1], section 21.4.7	0			
4.6	407	RFC 3261 [1], section 21.4.8	0			
4.7	423	RFC 3261 [1], sections 21.4.17 and 10.2.8	0			
5	5XX					
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	M			
5.2	503	RFC 3261 [1], section 21.5.4	0			
6	6XX	RFC 3261 [1], section 21.6	Х			

REGISTER parameters A.7.2.2.3

REGISTER request parameters A.7.2.2.3.1

Table A.66: REGISTER Request parameters

Item	Parameters name	Reference	Status receiving	Support
1	Request-Line			
1.1	Method	RFC 3261 [1], section 7.1	M	
			(see note 1)	
1.2	Request-URI	RFC 3261 [1], section 7.1	M	
1.3	SIP-Version	RFC 3261 [1], section 7.1	M	
			(see note 2)	
2	Headers		_	
2.1	Accept	RFC 3261 [1], section 20	0	
2.2	Accept-Encoding	RFC 3261 [1], section 20	0	
2.3	Accept-Language	RFC 3261 [1], section 20	0	
2.4	Allow	RFC 3261 [1], section 20	0	
2.5	Authorization	RFC 3261 [1], section 20	Oa66.01	
2.6	Call-ID	RFC 3261 [1], section 20	M	
2.7	Call-Info	RFC 3261 [1], section 20	0	
2.8	Contact	RFC 3261 [1], section 20	M	
2.9	Content-Disposition	RFC 3261 [1], section 20	0	
2.10	Content-Encoding	RFC 3261 [1], section 20	0	
2.11	Content-Language	RFC 3261 [1], section 20	0	
2.12	Content-Length	RFC 3261 [1], section 20	Ca66.01	
2.13	Content-Type	RFC 3261 [1], section 20	Ca66.02	
2.14	CSeq	RFC 3261 [1], section 20	M	
2.15	Date	RFC 3261 [1], section 20	0	
2.16	Expires	RFC 3261 [1], section 20	M	
2.17	From	RFC 3261 [1], section 20	M	
2.18	Max-Forwards	RFC 3261 [1], section 20	0	
2.19	MIME-Version	RFC 3261 [1], section 20	0	
2.20	Organization	RFC 3261 [1], section 20	0	
2.21	Proxy-Authorization	RFC 3261 [1], section 20	Oa66.01	
2.22	Poxy-Require	RFC 3261 [1], section 20	0	
2.23	Require	RFC 3261 [1], section 20	M	
2.24	Route	RFC 3261 [1], section 20	M	
2.25	Server	RFC 3261 [1], section 20	0	
2.26	Supported	RFC 3261 [1], section 20	0	
2.27	Timestamp	RFC 3261 [1], section 20	0	
2.28	То	RFC 3261 [1], section 20	M	
2.29	User-Agent	RFC 3261 [1], section 20	0	
2.30	Via	RFC 3261 [1], section 20	M	
2.29	Warning	RFC 3261 [1], section 20	0	
3	Body	RFC 3261 [1], section 7.4	0	

Ca66.01 IF (A.72/2 OR A.66/3) THEN I Ca66.02 IF (A.66/3) THEN M ELSE O.

NOTE 1: Set to "REGISTER" value in this case.

NOTE 2: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Comments:

A.7.2.2.3.2 REGISTER response parameters

Table A.67: REGISTER Response parameters

ltem	Parameters name	Reference	Status sending	Suppor
1	Status-line			
1.1	SIP-Version	RFC 3261 [1], section 7.1	M	
			(see note 1)	
1.2	Status-Code	RFC 3261 [1], section 7.1	M	
			(see note 2)	
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	M	
2	Headers			1
2.1	Accept	RFC 3261 [1], section 20	0	
2.2	Accept-Encoding	RFC 3261 [1], section 20	0	
2.3	Accept-Language	RFC 3261 [1], section 20	0	
2.4	Allow	RFC 3261 [1], section 20	Ca67.01	
2.5	Authentication-Info	RFC 3261 [1], section 20	0	
2.6	Call-ID	RFC 3261 [1], section 20	M	
2.7	Call-Info	RFC 3261 [1], section 20	0	
2.8	Contact	RFC 3261 [1], section 20	M	
2.9	Content-Disposition	RFC 3261 [1], section 20	0	
2.10	Content-Encoding	RFC 3261 [1], section 20	Ca67.11	
2.11	Content Language	RFC 3261 [1], section 20	0	
2.12	Content-Length	RFC 3261 [1], section 20	Ca67.02	
2.13 2.14	Content-Type	RFC 3261 [1], section 20	Ca67.03	
2.14 2.15	CSeq	RFC 3261 [1], section 20	M	
2.15	Date Error-Info	RFC 3261 [1], section 20 RFC 3261 [1], section 20	O Ca67.04	
2.16		RFC 3261 [1], section 20	O	
2.17	Expires From	RFC 3261 [1], section 20	M	
2.19	Min-Expires	RFC 3261 [1], section 20	Ca67.05	
2.20	MIME-Version	RFC 3261 [1], section 20	O	
2.21	Organization	RFC 3261 [1], section 20	0	
2.22	Proxy-Authenticate	RFC 3261 [1], section 20	Ca67.06	
2.23	Require	RFC 3261 [1], section 20	M	
2.24	Retry-After	RFC 3261 [1], section 20	Ca67.07	
2.25	Server	RFC 3261 [1], section 20	0	
2.26	Supported	RFC 3261 [1], section 20	Ca67.08	
2.27	Timestamp	RFC 3261 [1], section 20	0	
2.28	То	RFC 3261 [1], section 20	M	
2.29	Unsupported	RFC 3261 [1], section 20	Ca67.09	
2.30	User-Agent	RFC 3261 [1], section 20	0	
2.31	Via	RFC 3261 [1], section 20	M	
2.32	Warning	RFC 3261 [1], section 20	0	
2.33	WWW-Authenticate	RFC 3261 [1], section 20	Ca67.10	
3	Body	RFC 3261 [1], section 7.4	0	
a67.01	IF (status = 405) THEN I			1
a67.02	IF (A.72/2 OR A.67/3) TH			
a67.03	IF (A.67/3) THEN M ELS			
a67.04	IF (status=300-699) THE			
	IF (A.65/4.7) THEN M EL			
	,	1 ELSE (IF (status= 401) THE	,	
a67.07		,486,500,503,600,603)) THE	N O ELSE X.	
a67.08	IF (status= 2XX) THEN (
a67.09	IF (status= 420) THEN N		N O EL OE V	
a67.10		1 ELSE (IF (status= 407) THE	N O ELSE X).	
a67.11	IF (A.67/3) THEN O ELS		/O. O.II	
OTE 1:		3261 [1] shall be set to "SIP/	Z.U".	
OTE 2:	Cannot be set to 6XX or	IAA.		

A.7.2.3 Registration Security

A.7.2.3.1 Registration Security capabilities

Table A.68: Registration Security capabilities

Prerequisite: A.1/2						
Item	Security capabilities	Reference	Status	Support		
1	HTTP Authentication	RFC 3261 [1], sections 22 and 26.2.3	М			
2	S/MIME	RFC 3261 [1], sections 23 and 26.2.4	0			
3	TLS	RFC 3261 [1], section 26.3.1	М			
Comments:						

A.7.2.3.2 HTTP parameters

Table A.69: Access Authentication

Item	Parameters name	Reference	Status	Support
1	Basic	RFC 2617 [3], section 2	X	
2	Digest	RFC 2617 [3], section 3	М	

Table A.70: Authenticate header

Prerequisite: A.1/2 and A.68/1							
Item	Parameters name	Reference	Status	Support			
1	realm	RFC 2617 [3], section 3.2.1	М				
2	domain	RFC 2617 [3], section 3.2.1	0				
3	nonce	RFC 2617 [3], section 3.2.1	М				
4	opaque	RFC 2617 [3], section 3.2.1	0				
5	stale	RFC 2617 [3], section 3.2.1	0				
6	algorithm	RFC 2617 [3], section 3.2.1	0				
7	qop-options	RFC 2617 [3], section 3.2.1	0				
8	auth-param	RFC 2617 [3], section 3.2.1	0				
Commen	Comments:						

Table A.71: Authorization header

Prerequisite: A.1/2 and A.68/1						
Item	Parameters name	Reference	Status	Support		
1	username	RFC 2617 [3], section 3.2.2	М			
2	realm	RFC 2617 [3], section 3.2.2	М			
3	nonce	RFC 2617 [3], section 3.2.2	М			
4	digest-uri	RFC 2617 [3], section 3.2.2	М			
5	response	RFC 2617 [3], section 3.2.2	М			
6	algorithm	RFC 2617 [3], section 3.2.2	0			
7	cnonce	RFC 2617 [3], section 3.2.2	0			
8	opaque	RFC 2617 [3], section 3.2.2	0			
9	message-qop	RFC 2617 [3], section 3.2.2	0			
10	nonce-count	RFC 2617 [3], section 3.2.2	0			
11	auth-param	RFC 2617 [3], section 3.2.2	0			
Comme	nts:			•		

A.7.2.4 Registration Transport

Table A.72: Registration transport

Prerequisite: A.1/2						
Item	Transport	Reference	Status	Support		
1	UDP	RFC 3261 [1], section 18	M			
2	TCP	RFC 3261 [1], section 18	0			
3	Other transport	RFC 3261 [1], section 18	0			
Comments:						

A.7.2.5 Registration Addressing

A.7.2.5.1 URIs

Table A.73: Registration URI

Prerequisite: A.1/2							
Item	URI scheme	Reference	Status	Support			
1	SIP	RFC 3261 [1], section 19	М				
2	SIPS	RFC 3261 [1], section 19	М				
Comments:							

A.7.2.5.2 IP address

Table A.74: Registration IP Address

Prerequisite: A.1/2						
Item	IP Address format	Reference	Status	Support		
1	IPv4	RFC 3261 [1], section 19	M			
2	IPv6	RFC 3261 [1], section 19	0			
Comments:						

A.7.2.6 Registration Timers

Table A.75: Registration Timers

Prerequisite: A.1/2						
Item	Timer	Reference	Status	Support		
6	Timer J	RFC 3261 [1], section 17.2.2 and table 4	M			
			(see note)			
NOTE: Set to zero for reliable transport.						
Comments:						

A.8 Proxy

This clause contains the PICS proforma tables related to the SIP Proxy.

A.8.1 Services

Table A.76: Services

Prerequisite: A.1/3						
Item	Services	Reference	Status	Support		
1	Call Control	RFC 3261 [1], sections 16 and 8	М			
2	Querying for capabilities	RFC 3261 [1], sections 11 and 16	М			
Commer	Comments:					

A.8.2 Call Control service

This clause contains the PICS proforma tables related to the call control operations for a proxy.

A.8.2.1 Call Control procedures

Table A.77: Call Control procedures

Prerequis	site: A.1/3			
Item	Procedures	Reference	Status	Support
1	Establishment of a session			
1.1	Stateless procedures	RFC 3261 [1], section 16	Oa77.01	
1.2	Statefull procedures	RFC 3261 [1], sections 16 and 8.2	Oa77.01	
1.3	Based on Location server messages	RFC 3261 [1], sections 16 and 8.2	0	
			(see note)	
1.4	Forking procedures	0		
2	Modifying an existing session			
2.1	Stateless procedures	RFC 3261 [1], section 16	0	
2.2	Statefull procedures	RFC 3261 [1], sections 16 and 8.2	0	
3	Termination of a session with BYE			
3.1	Stateless procedures	RFC 3261 [1], section 16	Oa77.02	
3.2	Statefull procedures	RFC 3261 [1], sections 16 and 8.2	Oa77.02	
4	Cancellation of a session			
4.1	Stateless procedures	RFC 3261 [1], section 16	Oa77.03	
4.2	Statefull procedures	RFC 3261 [1], sections 16 and 8.2	Oa77.03	
Oa77.01	At least, one of those items shall be sup	pported.		
Oa77.02	At least, one of those items shall be sup			
Oa77.03	At least, one of those items shall be sup			
NOTE:	This procedure does not concern forwa		the proxy for	vards the
	request according to the contact(s) get	in the 3XX response.		
Comment	S:			

A.8.2.2 Call Control Messages

A.8.2.2.1 Call Control Requests

Table A.78: Call Control Requests

Prerequisite: A.1/3									
Item	Method	Reference	Status		nce Status Sur		Supp	port	
			Forwarding	Sending	Forwarding	Sending			
1	INVITE	RFC 3261 [1], section 13	М	Ca78.03					
2	re-INVITE	RFC 3261 [1], section 14	M	N/A					
3	ACK	RFC 3261 [1], section 8	М	Ca78.01					
4	BYE	RFC 3261 [1], section 15	M	N/A					
5	CANCEL	RFC 3261 [1], section 9	М	Ca78.02					
Ca78.01	IF A.77/1.2 TH	EN M ELSE N/A Statefull.							
Ca78.02 IF A.77/4.2 THEN M ELSE N/A Statefull Cancellation.									
Ca78.03 IF A.77/1.3 THEN M ELSE N/A Based on Location message.									
Comme	nts:			•					

A.8.2.2.2 Call Control Responses

A.8.2.2.2.1 Call Control INVITE Responses

Table A.79: Call Control INVITE Responses

Item	Status code	Reference	St	atus	Suj	port
			Sending	Forwarding	Sending	Forwarding
1	1XX					
1.1	100	RFC 3261 [1], sections 21.1.1 and16	Ca79.01	Ca79.02		
1.2	180	RFC 3261 [1], sections 21.1.2 and 16	Ca79.03	M		
1.3	181	RFC 3261 [1], sections 21.1.3 and 16	Ca79.03	M		
1.4	182	RFC 3261 [1], sections 21.1.4 and 16	Ca79.03	M		
1.5	183	RFC 3261 [1], sections 21.1.5 and 16	Ca79.03	М		
2	2XX					
2.1	200	RFC 3261 [1], section 21.2	N/A	M		
3	3XX					
3.1	300	RFC 3261 [1], sections 21.3.1 and 16	Ca79.07	Ca79.04		
3.2	301	RFC 3261 [1], sections 21.3.2 and 16	Ca79.07	Ca79.04		
3.3	302	RFC 3261 [1], sections 21.3.3 and 16	Ca79.07	Ca79.04		
3.4	305	RFC 3261 [1], sections 21.3.4 and 16	N/A	Ca79.04		
3.5	380	RFC 3261 [1], sections 21.3.5 and 16	Ca79.07	Ca79.04		
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	М	М		
4.2	401	RFC 3261 [1], section 21.4.2	Х	М		
4.3	402	RFC 3261 [1], section 21.4.3	N/A	M		
4.4	403	RFC 3261 [1], section 21.4.4	Ca79.03	М		
4.5	404	RFC 3261 [1], section 21.4.5	М	М		
4.6	405	RFC 3261 [1], section 21.4.6	Х	M		
4.7	406	RFC 3261 [1], section 21.4.7	Ca79.03	М		
4.8	407	RFC 3261 [1], section 21.4.8	Ca79.05	М		
4.9	408	RFC 3261 [1], section 21.4.9	Ca79.01	М		
4.10	410	RFC 3261 [1], section 21.4.10	Ca79.03	М		
4.11	413	RFC 3261 [1], section 21.4.11	Ca79.03	М		
4.12	414	RFC 3261 [1], section 21.4.12	Ca79.03	M		
4.13	415	RFC 3261 [1], section 21.4.13	Ca79.01	М		
4.14	416	RFC 3261 [1], section 21.4.14	0	М		
4.15	420	RFC 3261 [1], section 21.4.15	М	М		
4.16	421	RFC 3261 [1], section 21.4.16	Ca79.03	М		
4.17	480	RFC 3261 [1], section 21.4.18	0	М		
4.18	481	RFC 3261 [1], section 21.4.19	Ca79.03	М		

ltem	Status code	Reference	Sta	atus	Su	port
			Sending	Forwarding	Sending	Forwarding
4.19	482	RFC 3261 [1], section 21.4.20	0	М		
4.20	483	RFC 3261 [1], section 21.4.21	М	M		
4.21	484	RFC 3261 [1], section 21.4.22	0	М		
4.22	485	RFC 3261 [1], section 21.4.23	0	М		
4.23	486	RFC 3261 [1], section 21.4.24	Ca79.03	М		
4.24	487	RFC 3261 [1], section 21.4.25	Ca79.03	М		
4.25	488	RFC 3261 [1], section 21.4.26	Ca79.03	М		
4.26	491	RFC 3261 [1], section 21.4.27	Ca79.03	М		
4.27	493	RFC 3261 [1], section 21.4.28	Ca79.06	М		
5	5XX					
5.1	500	RFC 3261 [1], section 21.5.1	Ca79.01	M		
5.2	501	RFC 3261 [1], section 21.5.2	X	М		
5.3	502	RFC 3261 [1], section 21.5.3	0	M		
5.4	503	RFC 3261 [1], section 21.5.4	M	М		
5.5	504	RFC 3261 [1], section 21.5.5	Ca79.03	М		
5.6	505	RFC 3261 [1], section 21.5.6	Ca79.03	M		
5.7	513	RFC 3261 [1], section 21.5.7	Ca79.03	М		
6	6XX					
6.1	600	RFC 3261 [1], section 21.6.1	Ca79.03	М		
6.2	603	RFC 3261 [1], section 21.6.2	Ca79.03	M		
6.3	604	RFC 3261 [1], section 21.6.3	Ca79.03	M		
6.4	606	RFC 3261 [1], section 21.6.4	Ca79.03	М		
		HEN M ELSE N/A Statefull.				
		HEN X ELSE M Statefull.				
	-	HEN O ELSE N/A Statefull.				
		HEN N/A ELSE M Location service.				
		HEN M ELSE N/A HTTP Authenticati	ion.			
		EN M ELSE N/A.				
Ca/9.0		HEN N/A ELSE O –Based on Location	message.			

A.8.2.2.2.2 Call Control re-INVITE Responses

Comments:

Table A.80: Call Control re-INVITE Responses

Prerequ	uisite: A.1/3					
Item	Status code	Reference	Sta	atus	Su	oport
			Sending	Forwarding	Sending	Forwarding
1	1XX					
1.1	100	RFC 3261 [1], sections 21.1.1 and 16	Ca80.01	Ca80.02		
1.2	180	RFC 3261 [1], sections 21.1.2 and 16	N/A	M		
1.3	181	RFC 3261 [1], sections 21.1.3 and 16	Ca80.03	M		
1.4	182	RFC 3261 [1], sections 21.1.4 and 16	Ca80.03	M		
1.5	183	RFC 3261 [1], sections 21.1.5 and 16	Ca80.03	M		
2	2XX					
2.1	200	RFC 3261 [1], section 21.2	N/A	M		
3	3XX					
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	M	M		
4.2	401	RFC 3261 [1], section 21.4.2	Χ	M		
4.3	402	RFC 3261 [1], section 21.4.3	N/A	M		
4.4	403	RFC 3261 [1], section 21.4.4	Ca80.03	M		
4.5	404	RFC 3261 [1], section 21.4.5	М	M		
4.6	405	RFC 3261 [1], section 21.4.6	X	M		
4.7	406	RFC 3261 [1], section 21.4.7	Ca80.03	M		
4.8	407	RFC 3261 [1], section 21.4.8	Ca80.05	M		
4.9	408	RFC 3261 [1], section 21.4.9	Ca80.01	M		
4.10	410	RFC 3261 [1], section 21.4.10	Ca80.03	M		
4.11	413	RFC 3261 [1], section 21.4.11	Ca80.03	M		
4.12	414	RFC 3261 [1], section 21.4.12	Ca80.03	M		

Prerequ	iisite: A.1/3					
Item	Status code	Reference		atus	Sup	port
			Sending	Forwarding	Sending	Forwarding
4.13	415	RFC 3261 [1], section 21.4.13	Ca80.01	M		
4.14	416	RFC 3261 [1], section 21.4.14	0	M		
4.15	420	RFC 3261 [1], section 21.4.15	M	M		
4.16	421	RFC 3261 [1], section 21.4.16	Ca80.03	M		
4.17	480	RFC 3261 [1], section 21.4.18	0	M		
4.18	481	RFC 3261 [1], section 21.4.19	Ca80.03	M		
4.19	483	RFC 3261 [1], section 21.4.21	M	M		
4.20	484	RFC 3261 [1], section 21.4.22	0	M		
4.21	485	RFC 3261 [1], section 21.4.23	0	M		
4.22	486	RFC 3261 [1], section 21.4.24	Ca80.03	M		
4.23	487	RFC 3261 [1], section 21.4.25	Ca80.03	M		
4.24	488	RFC 3261 [1], section 21.4.26	Ca80.03	M		
4.25	491	RFC 3261 [1], section 21.4.27	Ca80.01	M		
4.26	493	RFC 3261 [1], section 21.4.28	Ca80.06	M		
5	5XX					
5.1	500	RFC 3261 [1], section 21.5.1	Ca80.01	M		
5.2	501	RFC 3261 [1], section 21.5.2	X	M		
5.3	502	RFC 3261 [1], section 21.5.3	0	M		
5.4	503	RFC 3261 [1], section 21.5.4	M	M		
5.5	504	RFC 3261 [1], section 21.5.5	Ca80.03	M		
5.6	505	RFC 3261 [1], section 21.5.6	Ca80.03	M		
5.7	513	RFC 3261 [1], section 21.5.7	Ca80.03	M		
6	6XX					
6.1	600	RFC 3261 [1], section 21.6.1	Ca80.03	M		
6.2	603	RFC 3261 [1], section 21.6.2	Ca80.03	M		
6.3	604	RFC 3261 [1], section 21.6.3	Ca80.03	M		
6.4	606	RFC 3261 [1], section 21.6.4	Ca80.03	M		
Ca80.01	IF A.77/1.2 T	HEN M ELSE N/A Statefull.				
		HEN X ELSE M Statefull.				
		HEN O ELSE N/A Statefull.				
		HEN N/A ELSE M Location service.				
		HEN M ELSE N/A HTTP Authenticat	ion.			
		EN M ELSE N/A.				
Comme	nts:					

A.8.2.2.2.3 Call Control BYE Responses

Table A.81: Call Control BYE Responses

Prereq	uisite: A.1/3					
Item	Status code	Reference	Sta	atus	Su	pport
			Sending	Forwarding	Sending	Forwarding
1	1XX					
1.1	100	RFC 3261 [1], sections 21.1.1 and 16	Ca81.01	Ca81.02		
2	2XX					
2.1	200	RFC 3261 [1], section 21.2	N/A	M		
3	3XX					
3.1	300	RFC 3261 [1],sections 21.3.1 and 16	Ca81.07	Ca81.04		
3.2	301	RFC 3261 [1], sections 21.3.2 and 16	Ca81.07	Ca81.04		
3.3	302	RFC 3261 [1], sections 21.3.3 and 16	Ca81.07	Ca81.04		
3.4	305	RFC 3261 [1], sections 21.3.4 and 16	Ca81.07	Ca81.04		
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	M	M		
4.2	401	RFC 3261 [1], section 21.4.2	X	M		
4.3	402	RFC 3261 [1], section 21.4.3	N/A	M		
4.4	403	RFC 3261 [1], section 21.4.4	Ca81.03	M		
4.5	404	RFC 3261 [1], section 21.4.5	М	M		
4.6	405	RFC 3261 [1], section 21.4.6	Х	M		
4.7	406	RFC 3261 [1], section 21.4.7	Ca81.03	M		
4.8	407	RFC 3261 [1], section 21.4.8	Ca81.05	M	•	

ltem	Status code	Reference	Sta	atus	Su	port
			Sending	Forwarding	Sending	Forwarding
4.9	408	RFC 3261 [1], section 21.4.9	Ca81.01	М		
4.10	410	RFC 3261 [1], section 21.4.10	Ca81.03	М		
4.11	413	RFC 3261 [1], section 21.4.11	Ca81.03	М		
4.12	414	RFC 3261 [1], section 21.4.12	Ca81.03	М		
4.14	416	RFC 3261 [1], section 21.4.14	0	M		
4.15	420	RFC 3261 [1], section 21.4.15	M	M		
4.16	421	RFC 3261 [1], section 21.4.16	Ca81.03	M		
4.17	480	RFC 3261 [1], section 21.4.18	0	M		
4.18	481	RFC 3261 [1], section 21.4.19	Ca81.03	M		
4.19	482	RFC 3261 [1], section 21.4.20	0	М		
4.20	483	RFC 3261 [1], section 21.4.21	М	М		
4.21	484	RFC 3261 [1], section 21.4.22	0	М		
4.22	485	RFC 3261 [1], section 21.4.23	0	М		
4.23	487	RFC 3261 [1], section 21.4.25	Ca81.03	М		
4.24	488	RFC 3261 [1], section 21.4.26	Ca81.03	М		
4.25	491	RFC 3261 [1], section 21.4.27	Ca81.03	М		
4.26	493	RFC 3261 [1], section 21.4.28	Ca81.06	М		
5	5XX					
5.1	500	RFC 3261 [1], section 21.5.1	Ca81.01	M		
5.2	501	RFC 3261 [1], section 21.5.2	Х	M		
5.3	502	RFC 3261 [1], section 21.5.3	0	M		
5.4	503	RFC 3261 [1], section 21.5.4	M	M		
5.5	504	RFC 3261 [1], section 21.5.5	Ca81.03	M		
5.6	505	RFC 3261 [1], section 21.5.6	Ca81.03	M		
5.7	513	RFC 3261 [1], section 21.5.7	Ca81.03	M		
6	6XX					
6.1	604	RFC 3261 [1], section 21.6.3	Ca81.03	M		
Ca81.01	I IF A.77/1.2 TI	HEN M ELSE N/A Statefull.				
		HEN X ELSE M Statefull.				
		HEN O ELSE N/A Statefull.				
		HEN N/A ELSE M Location service.				
		HEN O ELSE N/A HTTP Authenticati	on.			
		EN M ELSE N/A.				
Ja81.07	7	HEN N/A ELSE O Location service.				

A.8.2.2.2.4 Call Control CANCEL Responses

Table A.82: Call Control CANCEL Responses

Item	Status code	Reference	Status		Support	
			Sending	Forwarding	Sending	Forwarding
1	1XX			<u>. </u>		
1.1	100	RFC 3261 [1], sections 21.1.1 and 16	Х	Ca82.02		
			(see note)			
2	2XX					
2.1	200	RFC 3261 [1], section 21.2	Ca82.01	Ca82.02		
3	3XX					
4	4XX					
4.1	400	RFC 3261 [1], section 21.4.1	M	M		
4.2	401	RFC 3261 [1], section 21.4.2	Х	M		
4.3	403	RFC 3261 [1], section 21.4.4	Ca82.03	M		
4.4	404	RFC 3261 [1], section 21.4.5	M	M		
4.5	405	RFC 3261 [1], section 21.4.6	Х	M		
4.6	406	RFC 3261 [1], section 21.4.7	Ca82.03	M		
4.7	407	RFC 3261 [1], section 21.4.8	Ca82.04	M		
4.8	408	RFC 3261 [1], section 21.4.9	Ca82.01	М		
4.9	410	RFC 3261 [1], section 21.4.10	Ca82.03	М		
4.10	413	RFC 3261 [1], section 21.4.11	Ca82.03	M		

	isite: A.1/3	Deference	Ctatus	I	Cuppert	
Item	Status code	Reference	Status	Famusadina	Support	Famuandin a
			Sending	Forwarding	Sending	Forwarding
4.11	414	RFC 3261 [1], section 21.4.12	Ca82.03	M		
4.12	416	RFC 3261 [1], section 21.4.14	0	M		
4.13	420	RFC 3261 [1], section 21.4.15	M	M		
4.14	480	RFC 3261 [1], section 21.4.18	0	M		
4.15	481	RFC 3261 [1], section 21.4.19	X	M		
4.16	482	RFC 3261 [1], section 21.4.20	0	M		
4.17	483	RFC 3261 [1], section 21.4.21	М	М		
4.18	484	RFC 3261 [1], section 21.4.22	0	M		
4.19	485	RFC 3261 [1], section 21.4.23	0	M		
4.20	487	RFC 3261 [1], section 21.4.25	Ca82.03	М		
5	5XX					
5.1	500	RFC 3261 [1], section 21.5.1	Ca82.01	М		
5.2	501	RFC 3261 [1], section 21.5.2	X	M		
5.3	502	RFC 3261 [1], section 21.5.3	0	M		
5.4	503	RFC 3261 [1], section 21.5.4	М	М		
5.5	504	RFC 3261 [1], section 21.5.5	Ca82.03	M		
5.6	505	RFC 3261 [1], section 21.5.6	Ca82.03	M		
5.7	513	RFC 3261 [1], section 21.5.7	Ca82.03	M		
6	6XX					
6.1	604	RFC 3261 [1], section 21.6.3	Ca82.03	М		
Ca82.01	IF A.77/1.2 TI	HEN M ELSE N/A Statefull.				
Ca82.02		HEN X ELSE M Statefull.				
Ca82.03		HEN O ELSE N/A Statefull.				
Ca82.04	IF A.92/1.3 Th	HEN O ELSE N/A HTTP Authenticatio	n.			
NOTE:	Statefull prox	y shall answer immediately with a 200 C	OK.			
Commer	nts:	<u>-</u>	·			· <u> </u>

A.8.2.2.3 INVITE parameters

A.8.2.2.3.1 INVITE request parameters

Table A.83: INVITE Request parameters

Prerequ	ıisite: A.1/3					
ltem	Parameters name	Reference		atus		port
			Updating	Receiving	Updating	Receiving
1	Request-Line					
1.1	Method	RFC 3261 [1], section 7.1	N/A	М		
				(see note 1)		
1.2	Request-URI	RFC 3261 [1], section 7.1	M	M		
1.3	SIP-Version	RFC 3261 [1], section 7.1	N/A	M		
				(see note 2)		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	N/A	Ca83.01		
2.2	Accept-Encoding	RFC 3261 [1], section 20	N/A	Ca83.01		
2.3	Accept-Language	RFC 3261 [1], section 20	N/A	Ca83.01		
2.4	Alert-Info	RFC 3261 [1], section 20	0	0		
2.5	Allow	RFC 3261 [1], section 20	N/A	Ca83.01		
2.6	Authorization	RFC 3261 [1], section 20	N/A	0		
2.7	Call-ID	RFC 3261 [1], section 20	N/A	M		
2.8	Call-Info	RFC 3261 [1], section 20	0	0		
2.9	Contact	RFC 3261 [1], section 20	N/A	Ca83.01		
2.10	Content-Disposition	RFC 3261 [1], section 20	N/A	Ca83.01		
2.11	Content-Encoding	RFC 3261 [1], section 20	N/A	Ca83.01		
2.12	Content-Language	RFC 3261 [1], section 20	N/A	Ca83.01		
2.13	Content-Length	RFC 3261 [1], section 20	М	М		
2.14	Content-Type	RFC 3261 [1], section 20	N/A	Ca83.01		
2.15	CSeq	RFC 3261 [1], section 20	N/A	М		
2.16	Date	RFC 3261 [1], section 20	0	0		

ltem	Parameters name	Reference	Sta	atus	Support	
			Updating	Receiving	Updating	Receiving
2.17	Expires	RFC 3261 [1], section 20	N/A	Ca83.01		
2.18	From	RFC 3261 [1], section 20	N/A	M		
2.19	In-Reply-To	RFC 3261 [1], section 20	N/A	Ca83.01		
2.20	Max-Forwards	RFC 3261 [1], section 20	M	M		
2.21	MIME-Version	RFC 3261 [1], section 20	N/A	Ca83.01		
2.22	Organization	RFC 3261 [1], section 20	0	0		
2.23	Priority	RFC 3261 [1], section 20	0	0		
2.24	Proxy-Authorization	RFC 3261 [1], section 20	Ca83.02	Ca83.02		
2.25	Proxy-Require	RFC 3261 [1], section 20	0	М		
2.26	Record-Route	RFC 3261 [1], section 20	0	М		
2.27	Reply-To	RFC 3261 [1], section 20	N/A	Ca83.01		
2.28	Require	RFC 3261 [1], section 20	0	М		
2.29	Route	RFC 3261 [1], section 20	M	М		
2.30	Server	RFC 3261 [1], section 20	N/A	0		
2.31	Subject	RFC 3261 [1], section 20	N/A	Ca83.01		
2.32	Supported	RFC 3261 [1], section 20	N/A	Ca83.01		
2.33	Timestamp	RFC 3261 [1], section 20	N/A	0		
2.34	То	RFC 3261 [1], section 20	N/A	M		
2.35	User-Agent	RFC 3261 [1], section 20	N/A	0		
2.36	Via	RFC 3261 [1], section 20	M	М		
2.37	Warning	RFC 3261 [1], section 20	N/A	0		
3	Body	RFC 3261 [1], section 7.4	X	Ca83.01		
Ca83.01 Ca83.02	IF A.92/1.3 THEN M	ELSE N/A Statefull. ELSE N/A HTTP Authentic	ation.			
-	Set to "INVITE" value To be conformed to	e in this case. RFC 3261 [1] shall be set to "	SIP/2.0".			
Commen	ts: Updating covers e	ither addition or modification	of the header	field.		<u></u>

A.8.2.2.3.2 INVITE response parameters

Table A.84: INVITE response parameters

Receiving covers the ability of the proxy to read it.

Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before

forwarding any header field, even if it does not understand it.

Prerequi	site: A.1/3					
Item	Parameters name	Reference	Sta	itus	Support	
			Updating	Receiving	Updating	Receiving
1	Status-Line					
1.1	SIP-Version	RFC 3261 [1], section 7.1	N/A	M		
1.2	Status-code	RFC 3261 [1], section 7.1	Ca84.03	M		
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	Ca84.03	M		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	N/A	Ca84.01		
2.2	Accept-Encoding	RFC 3261 [1], section 20	N/A	Ca84.01		
2.3	Accept-Language	RFC 3261 [1], section 20	N/A	Ca84.01		
2.4	Alert-Info	RFC 3261 [1], section 20	0	0		
2.5	Allow	RFC 3261 [1], section 20	N/A	Ca84.01		
2.6	Authentication-Info	RFC 3261 [1], section 20	N/A	0		
2.7	Call-ID	RFC 3261 [1], section 20	N/A	M		
2.8	Call-Info	RFC 3261 [1], section 20	0	0		
2.9	Contact	RFC 3261 [1], section 20	0	0		
2.10	Content-Disposition	RFC 3261 [1], section 20	N/A	Ca84.01		
2.11	Content-Encoding	RFC 3261 [1], section 20	N/A	Ca84.01		
2.12	Content-Language	RFC 3261 [1], section 20	N/A	Ca84.01		
2.13	Content-Length	RFC 3261 [1], section 20	М	М		
2.14	Content-Type	RFC 3261 [1], section 20	N/A	Ca84.01		
2.15	CSeq	RFC 3261 [1], section 20	N/A	М		
2.16	Date	RFC 3261 [1], section 20	0	0		
2.17	Error-Info	RFC 3261 [1], section 20	0	0		

Prerequis	site: A.1/3					
Item	Parameters name	Reference	Sta	tus	Sup	port
			Updating	Receiving	Updating	Receiving
2.18	Expires	RFC 3261 [1], section 20	N/A	Ca84.01		
2.19	From	RFC 3261 [1], section 20	N/A	М		
2.20	MIME-Version	RFC 3261 [1], section 20	N/A	Ca84.01		
2.21	Organization	RFC 3261 [1], section 20	0	0		
2.22	Proxy-Authenticate	RFC 3261 [1], section 20	Ca84.04	M		
2.23	Record-Route	RFC 3261 [1], section 20	Ca84.05	Ca84.06		
2.24	Reply-To	RFC 3261 [1], section 20	N/A	Ca84.01		
2.25	Require	RFC 3261 [1], section 20	0	M		
2.26	Retry-After	RFC 3261 [1], section 20	N/A	Ca84.07		
2.27	Server	RFC 3261 [1], section 20	N/A	Ca84.01		
2.28	Supported	RFC 3261 [1], section 20	N/A	Ca84.08		
2.29	Timestamp	RFC 3261 [1], section 20	N/A	Ca84.01		
2.30	То	RFC 3261 [1], section 20	N/A	M		
2.31	Unsupported	RFC 3261 [1], section 20	N/A	Ca84.09		
2.32	User-Agent	RFC 3261 [1], section 20	N/A	Ca84.01		
2.33	Via	RFC 3261 [1], section 20	М	М		
2.34	Warning	RFC 3261 [1], section 20	N/A	Ca84.01		
2.35	WWW-Authenticate	RFC 3261 [1], section 20	N/A	M		
3	Body	RFC 3261 [1], section 7.4	X	Ca84.01		
Ca84.01	IF A.77/1.2 THEN O E	LSE N/A Statefull.				
Ca84.02		LSE N/A HTTP Authentica	tion.			
Ca84.03	IF A.77/1.2 THEN M E					
Ca84.04		us=407) THEN M ELSE N/A).				
Ca84.05	IF (status=18X-2XX) T					
Ca84.06	IF (status=18X-2XX) T			N1/A		
Ca84.07		80,486,500,503,600,603)) TH	IEN O ELSE	N/A.		
Ca84.08	IF (status=2XX) THEN					
Ca84.09 NOTE:		us=420) THEN M ELSE N/A. FC 3261 [1] shall be set to "S	ID/2 N"			
Comment		ither addition or modification		field Peccivi	na covere the	a ability of
Comment	the proxy to read i		or the neader	neiu. Necelvi	ing covers the	ability Of
		t. ct, Route and Proxy-Authoriz	ation headers	s, proxy shall i	not remove be	efore
		ader field, even if it does not				0.0.0
		,				

A.8.2.2.4 re-INVITE parameters

A.8.2.2.4.1 re-INVITE request parameters

Table A.85: re-INVITE Request parameters

Prerequ Item	Parameters name	Reference	Status		Support	
			Updating	Receiving	Updating	Receiving
1	Request-Line					
1.1	Method	RFC 3261 [1], section 7.1	N/A	M (see note 1)		
1.2	Request-URI	RFC 3261 [1], section 7.1	M	M		
1.3	SIP-Version	RFC 3261 [1], section 7.1	N/A	M (see note 2)		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	N/A	Ca85.01		
2.2	Accept-Encoding	RFC 3261 [1], section 20	N/A	Ca85.01		
2.3	Accept-Language	RFC 3261 [1], section 20	N/A	Ca85.01		
2.4	Alert-Info	RFC 3261 [1], section 20	0	0		
2.5	Allow	RFC 3261 [1], section 20	N/A	Ca85.01		
2.6	Authorization	RFC 3261 [1], section 20	N/A	0		
2.7	Call-ID	RFC 3261 [1], section 20	N/A	М		
2.8	Call-Info	RFC 3261 [1], section 20	0	0		
2.9	Contact	RFC 3261 [1], section 20	N/A	Ca85.01		
2.10	Content-Disposition	RFC 3261 [1], section 20	N/A	Ca85.01		

Prerequi	site: A.1/3					
Item	Parameters name	Reference	Sta	atus	Sup	port
			Updating	Receiving	Updating	Receiving
2.11	Content-Encoding	RFC 3261 [1], section 20	N/A	Ca85.01		
2.12	Content-Language	RFC 3261 [1], section 20	N/A	Ca85.01		
2.13	Content-Length	RFC 3261 [1], section 20	М	M		
2.14	Content-Type	RFC 3261 [1], section 20	N/A	Ca85.01		
2.15	CSeq	RFC 3261 [1], section 20	N/A	M		
2.16	Date	RFC 3261 [1], section 20	0	0		
2.17	Expires	RFC 3261 [1], section 20	N/A	Ca85.01		
2.18	From	RFC 3261 [1], section 20	N/A	M		
2.19	In-Reply-To	RFC 3261 [1], section 20	N/A	Ca85.01		
2.20	Max-Forwards	RFC 3261 [1], section 20	M	M		
2.21	MIME-Version	RFC 3261 [1], section 20	N/A	Ca85.01		
2.22	Organization	RFC 3261 [1], section 20	0	0		
2.23	Priority	RFC 3261 [1], section 20	0	0		
2.24	Proxy-Authorization	RFC 3261 [1], section 20	Ca85.02	М		
2.25	Proxy-Require	RFC 3261 [1], section 20	0	M		
2.26	Record-Route	RFC 3261 [1], section 20	0	M		
2.27	Reply-To	RFC 3261 [1], section 20	N/A	Ca85.01		
2.28	Require	RFC 3261 [1], section 20	0	M		
2.29	Route	RFC 3261 [1], section 20	M	M		
2.30	Server	RFC 3261 [1], section 20	N/A	0		
2.31	Subject	RFC 3261 [1], section 20	N/A	Ca85.01		
2.32	Supported	RFC 3261 [1], section 20	N/A	Ca85.01		
2.33	Timestamp	RFC 3261 [1], section 20	N/A	0		
2.34	То	RFC 3261 [1], section 20	N/A	M		
2.35	User-Agent	RFC 3261 [1], section 20	N/A	0		
2.36	Via	RFC 3261 [1], section 20	M	M		
2.37	Warning	RFC 3261 [1], section 20	N/A	0		
3	Body	RFC 3261 [1], section 7.4	X	Ca85.01		

Ca85.01 IF A.77/1.2 THEN O ELSE N/A -- Statefull.
Ca85.02 IF A.92/1.3 THEN O ELSE N/A -- HTTP Authentication.

NOTE 1: Set to "INVITE" value in this case.

NOTE 2: To be conformed to RFC 3261 [1], section shall be set to "SIP/2.0".

Comments: Updating covers either addition or modification of the header field. Receiving covers the ability of

the proxy to read it.

Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before

forwarding any header field, even if it does not understand it.

A.8.2.2.4.2 re-INVITE response parameters

Table A.86: re-INVITE response parameters

Prerequi	site: A.1/3					
Item	Parameters name	Reference	Sta	itus	Sup	port
			Updating	Receiving	Updating	Receiving
1	Status-Line	•				
1.1	SIP-Version	RFC 3261 [1], section 7.1	N/A	M		
1.2	Status-code	RFC 3261 [1], section 7.1	Ca86.03	M		
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	Ca86.03	M		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	N/A	Ca86.01		
2.2	Accept-Encoding	RFC 3261 [1], section 20	N/A	Ca86.01		
2.3	Accept-Language	RFC 3261 [1], section 20	N/A	Ca86.01		
2.4	Alert-Info	RFC 3261 [1], section 20	0	0		
2.5	Allow	RFC 3261 [1], section 20	N/A	Ca86.01		
2.6	Authentication-Info	RFC 3261 [1], section 20	N/A	0		
2.7	Call-ID	RFC 3261 [1], section 20	N/A	M		
2.8	Call-Info	RFC 3261 [1], section 20	0	0		
2.9	Contact	RFC 3261 [1], section 20	0	0		
2.10	Content-Disposition	RFC 3261 [1], section 20	N/A	Ca86.01		
2.11	Content-Encoding	RFC 3261 [1], section 20	N/A	Ca86.01		

Prerequi	site: A.1/3						
Item	Parameters name	Reference		atus	Sup	port	
			Updating	Receiving	Updating	Receiving	
2.12	Content-Language	RFC 3261 [1], section 20	N/A	Ca86.01			
2.13	Content-Length	RFC 3261 [1], section 20	M	M			
2.14	Content-Type	RFC 3261 [1], section 20	N/A	Ca86.01			
2.15	CSeq	RFC 3261 [1], section 20	N/A	M			
2.16	Date	RFC 3261 [1], section 20	0	0			
2.17	Error-Info	RFC 3261 [1], section 20	0	0			
2.18	Expires	RFC 3261 [1], section 20	N/A	Ca86.01			
2.19	From	RFC 3261 [1], section 20	N/A	M			
2.20	MIME-Version	RFC 3261 [1], section 20	N/A	Ca86.01			
2.21	Organization	RFC 3261 [1], section 20	0	0			
2.22	Proxy-Authenticate	RFC 3261 [1], section 20	Ca86.04	M			
2.23	Record-Route	RFC 3261 [1], section 20	Ca86.05	Ca86.06			
2.24	Reply-To	RFC 3261 [1], section 20	N/A	Ca86.01			
2.25	Require	RFC 3261 [1], section 20	0	M			
2.26	Retry-After	RFC 3261 [1], section 20	N/A	Ca86.07			
2.27	Server	RFC 3261 [1], section 20	N/A	Ca86.01			
2.28	Supported	RFC 3261 [1], section 20	N/A	Ca86.08			
2.29	Timestamp	RFC 3261 [1], section 20	N/A	Ca86.01			
2.30	То	RFC 3261 [1], section 20	N/A	M			
2.31	Unsupported	RFC 3261 [1], section 20	N/A	Ca86.09			
2.32	User-Agent	RFC 3261 [1], section 20	N/A	Ca86.01			
2.33	Via	RFC 3261 [1], section 20	M	M			
2.34	Warning	RFC 3261 [1], section 20	N/A	Ca86.01			
2.35	WWW-Authenticate	RFC 3261 [1], section 20	N/A	M			
3	Body	RFC 3261 [1], section 7.4	X	Ca86.01			
Ca86.01	IF A.77/1.2 THEN O	ELSE N/A Statefull.					
Ca86.02	IF A.92/1.3 THEN M	ELSE N/A HTTP Authentic	ation.				
Ca86.03		ELSE N/A Statefull.					
Ca86.04		tus=407) THEN M ELSE N/A)).				
Ca86.05	IF (status=18X-2XX)						
Ca86.06	IF (status=18X-2XX)						
Ca86.07		480,486,500,503,600,603)) T	HEN O ELSE	N/A.			
Ca86.08							
Ca86.09		tus=420) THEN M ELSE N/A					
NOTE:		RFC 3261 [1] shall be set to "					
Commen		either addition or modification	of the heade	er field. Receiv	ing covers the	e ability of	
	the proxy to read						
		act, Route and Proxy-Authori			not remove b	etore	
	forwarding any h	eader field, even if it does not	understand i	τ.			

A.8.2.2.5 ACK

A.8.2.2.5.1 ACK request parameters

Table A.87: ACK Request parameters

Prerequ	isite: A.1/3					
Item	Parameters name	Reference	St	atus	Sup	port
			Updating	Receiving	Updating	Receiving
1	Request-Line					
1.1	Method	RFC 3261 [1], section 7.1	N/A	M (see note 1)		
1.2	Request-URI	RFC 3261 [1], section 7.1	M	M		
1.3	SIP-Version	RFC 3261 [1], section 7.1	N/A	M (see note 2)		
2	Headers	•				
2.1	Authorization	RFC 3261 [1], section 20	N/A	Ca87.01		
2.2	Call-ID	RFC 3261 [1], section 20	N/A	М		
2.3	Contact	RFC 3261 [1], section 20	N/A	Ca87.01		
2.4	Content-Disposition	RFC 3261 [1], section 20	N/A	Ca87.01		

Item	Parameters name	Reference	Sta	atus	Sup	port
			Updating	Receiving	Updating	Receiving
2.5	Content-Encoding	RFC 3261 [1], section 20	N/A	Ca87.01		
2.6	Content-Language	RFC 3261 [1], section 20	N/A	Ca87.01		
2.7	Content-Length	RFC 3261 [1], section 20	M	M		
2.8	Content-Type	RFC 3261 [1], section 20	N/A	Ca87.01		
2.9	CSeq	RFC 3261 [1], section 20	N/A	M		
2.10	Date	RFC 3261 [1], section 20	0	0		
2.11	From	RFC 3261 [1], section 20	N/A	M		
2.12	Max-Forwards	RFC 3261 [1], section 20	M	M		
2.13	MIME-Version	RFC 3261 [1], section 20	N/A	Ca87.01		
2.14	Proxy-Authorization	RFC 3261 [1], section 20	Ca87.02	M		
2.15	Record-Route	RFC 3261 [1], section 20	0	М		
2.16	Route	RFC 3261 [1], section 20	M	М		
2.17	Timestamp	RFC 3261 [1], section 20	N/A	0		
2.18	То	RFC 3261 [1], section 20	N/A	M		
2.19	User-Agent	RFC 3261 [1], section 20	N/A	0		
2.20	Via	RFC 3261 [1], section 20	M	M		
3	Body	RFC 3261 [1], section 7.4	Х	Ca87.01		

Ca87.01 IF A.77/1.2 THEN O ELSE N/A --Statefull.

Ca87.02 IF A.92/1.3 THEN O ELSE N/A -- HTTP Authentication.

NOTE 1: Set to "ACK" value in this case.

NOTE 2: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Comments: Updating covers either addition or modification of the header field. Receiving covers the ability of the proxy to read it.

Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before forwarding any header field, even if it does not understand it.

A.8.2.2.6 BYE parameters

A.8.2.2.6.1 BYE request parameters

Table A.88: BYE Request parameters

Item	Parameters name	Reference	St	atus	Sup	port
			Updating	Receiving	Updating	Receiving
1	Request-Line					
1.1	Method	RFC 3261 [1], section 7.1	N/A	М		
				(see note 1)		
1.2	Request-URI	RFC 3261 [1], section 7.1	М	М		
1.3	SIP-Version	RFC 3261 [1], section 7.1	N/A	М		
				(see note 2)		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	N/A	Ca88.01		
2.2	Accept-Encoding	RFC 3261 [1], section 20	N/A	Ca88.01		
2.3	Accept-Language	RFC 3261 [1], section 20	N/A	Ca88.01		
2.4	Allow	RFC 3261 [1], section 20	N/A	Ca88.01		
2.5	Authorization	RFC 3261 [1], section 20	N/A	0		
2.6	Call-ID	RFC 3261 [1], section 20	N/A	M		
2.7	Content-Disposition	RFC 3261 [1], section 20	N/A	Ca88.01		
2.8	Content-Encoding	RFC 3261 [1], section 20	N/A	Ca88.01		
2.9	Content-Language	RFC 3261 [1], section 20	N/A	Ca88.01		
2.10	Content-Length	RFC 3261 [1], section 20	М	M		
2.11	Content-Type	RFC 3261 [1], section 20	N/A	Ca88.01		
2.12	CSeq	RFC 3261 [1], section 20	N/A	М		
2.13	Date	RFC 3261 [1], section 20	0	0		
2.14	From	RFC 3261 [1], section 20	N/A	М		
2.15	Max-Forwards	RFC 3261 [1], section 20	М	М		
2.16	MIME-Version	RFC 3261 [1], section 20	N/A	Ca88.01		
2.17	Proxy-Authorization	RFC 3261 [1], section 20	Ca88.02	М		

ltem	Parameters name	Reference	Sta	atus	Support	
			Updating	Receiving	Updating	Receiving
2.18	Proxy-Require	RFC 3261 [1], section 20	0	М		
2.19	Record-Route	RFC 3261 [1], section 20	0	M		
2.20	Require	RFC 3261 [1], section 20	0	M		
2.21	Route	RFC 3261 [1], section 20	М	M		
2.22	Server	RFC 3261 [1], section 20	N/A	Ca88.01		
2.23	Supported	RFC 3261 [1], section 20	N/A	Ca88.01		
2.24	Timestamp	RFC 3261 [1], section 20	N/A	0		
2.25	То	RFC 3261 [1], section 20	N/A	M		
2.26	User-Agent	RFC 3261 [1], section 20	N/A	0		
2.27	Via	RFC 3261 [1], section 20	M	M		
2.28	Warning	RFC 3261 [1], section 20	N/A	0		
3	Body	RFC 3261 [1], section 7.4	X	Ca88.01		
Ca88.01		ELSE N/A Statefull.	_			

Ca88.02 IF A.92/1.3 THEN O ELSE N/A -- HTTP Authentication.

NOTE 1: Set to "BYE" value in this case.

NOTE 2: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Comments: Updating covers either addition or modification of the header field. Receiving covers the ability of the proxy to read it.

Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before forwarding any header field, even if it does not understand it.

A.8.2.2.6.2 BYE response parameters

Table A.89: BYE response parameters

Item	Parameters name	Reference	Sta	atus	Sup	port
			Updating	Receiving	Updating	Receiving
1	Status-Line					
1.1	SIP-Version	RFC 3261 [1], section 7.1	N/A	M		
1.2	Status-code	RFC 3261 [1], section 7.1	Ca89.02	M		
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	Ca89.02	M		
2	Headers					•
2.1	Accept	RFC 3261 [1], section 20	N/A	Ca89.01		
2.2	Accept-Encoding	RFC 3261 [1], section 20	N/A	Ca89.01		
2.3	Accept-Language	RFC 3261 [1], section 20	N/A	Ca89.01		
2.5	Allow	RFC 3261 [1], section 20	N/A	Ca89.01		
2.6	Authentication-Info	RFC 3261 [1], section 20	N/A	0		
2.7	Call-ID	RFC 3261 [1], section 20	N/A	M		
2.8	Contact	RFC 3261 [1], section 20	0	0		
2.9	Content-Disposition	RFC 3261 [1], section 20	N/A	Ca89.01		
2.10	Content-Encoding	RFC 3261 [1], section 20	N/A	Ca89.01		
2.11	Content-Language	RFC 3261 [1], section 20	N/A	Ca89.01		
2.12	Content-Length	RFC 3261 [1], section 20	М	M		
2.13	Content-Type	RFC 3261 [1], section 20	N/A	Ca89.01		
2.14	CSeq	RFC 3261 [1], section 20	N/A	M		
2.15	Date	RFC 3261 [1], section 20	0	0		
2.16	Error-Info	RFC 3261 [1], section 20	0	0		
2.17	From	RFC 3261 [1], section 20	N/A	M		
2.18	MIME-Version	RFC 3261 [1], section 20	N/A	Ca89.01		
2.19	Proxy-Authenticate	RFC 3261 [1], section 20	Ca89.03	M		
2.20	Record-Route	RFC 3261 [1], section 20	Ca89.04	Ca89.05		
2.21	Require	RFC 3261 [1], section 20	0	M		
2.22	Retry-After	RFC 3261 [1], section 20	N/A	Ca89.06		
2.23	Server	RFC 3261 [1], section 20	N/A	0		
2.24	Supported	RFC 3261 [1], section 20	N/A	Ca89.07		
2.25	Timestamp	RFC 3261 [1], section 20	N/A	Ca89.01		
2.26	То	RFC 3261 [1], section 20	N/A	М		
2.27	Unsupported	RFC 3261 [1], section 20	N/A	Ca89.08		
2.28	User-Agent	RFC 3261 [1], section 20	N/A	Ca89.01		

Prerequ	isite: A.1/3						
Item	Parameters name	Reference	Sta	itus	Support		
			Updating	Receiving	Updating	Receiving	
2.29	Via	RFC 3261 [1], section 20	М	М			
2.30	Warning	RFC 3261 [1], section 20	N/A	Ca89.01			
2.31	WWW-Authenticate	RFC 3261 [1], section 20	N/A	М			
3	Body	RFC 3261 [1], section 7.4	X	Ca89.01			
Ca89.01 IF A.77/1.2 THEN O ELSE N/A Statefull. Ca89.02 IF A.77/1.2 THEN M ELSE N/A Statefull. Ca89.03 IF (A.92/1.3 AND status=407) THEN M ELSE N/A). Ca89.04 IF (status=18X-2XX) THEN O ELSE N/A. Ca89.05 IF (status=18X-2XX) THEN M ELSE N/A. Ca89.06 IF (status= (404,413,480,486,500,503,600,603)) THEN O ELSE N/A. Ca89.07 IF (status=2XX) THEN O ELSE N/A. Ca89.08 IF (A.77/1.2 AND status=420) THEN M ELSE N/A. Comments: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0". Updating covers either addition or modification of the header field. Receiving covers the ability of							
the proxy to read it. Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before forwarding any header field, even if it does not understand it.							

A.8.2.2.7 CANCEL parameters

A.8.2.2.7.1 CANCEL request parameters

Table A.90: CANCEL Request parameters

Item	Parameters name	Reference	Sta	atus	Sup	port
			Updating	Receiving	Updating	Receiving
1	Request-Line	•				
1.1	Method	RFC 3261 [1], section 7.1	Ca90.03	M		
				(see note 1)		
1.2	Request-URI	RFC 3261 [1], section 7.1	M	M		
1.3	SIP-Version	RFC 3261 [1], section 7.1	Ca90.03	M		
				(see note 2)		
2	Headers					
2.1	Authorization	RFC 3261 [1], section 20	Ca90.01	0		
2.2	Call-ID	RFC 3261 [1], section 20	Ca90.03	M		
2.3	Content-Length	RFC 3261 [1], section 20	Ca90.03	M		
2.4	CSeq	RFC 3261 [1], section 20	Ca90.03	M		
2.5	Date	RFC 3261 [1], section 20	0	0		
2.6	From	RFC 3261 [1], section 20	Ca90.03	M		
2.7	Max-Forwards	RFC 3261 [1], section 20	M	M		
2.1	Proxy-Authorization	RFC 3261 [1], section 20	Ca90.01	Ca90.01		
2.8	Proxy-Require	RFC 3261 [1], section 20	0	M		
2.9	Record-Route	RFC 3261 [1], section 20	0	M		
2.10	Route	RFC 3261 [1], section 20	М	М		
2.11	Require	RFC 3261 [1], section 20	Х	X		
2.12	Server	RFC 3261 [1], section 20	Ca90.01	0		
2.13	Supported	RFC 3261 [1], section 20	Ca90.01	Ca90.01		
2.14	Timestamp	RFC 3261 [1], section 20	Ca90.01	0		

Prerequisite: A.1/3								
Item	Parameters name	Reference	Status		Support			
			Updating	Receiving	Updating	Receiving		
2.15	То	RFC 3261 [1], section 20	Ca90.03	M				
2.16	User-Agent	RFC 3261 [1], section 20	Ca90.01	0				
2.17	Via	RFC 3261 [1], section 20	M	M				
2.18	Warning	RFC 3261 [1], section 20	Ca90.01	0				

Ca90.01 IF A.77/1.2 THEN O ELSE N/A -- Statefull.

Ca90.02 IF A.92/1.3 THEN O ELSE N/A -- HTTP Authentication.

Ca90.03 IF A.77/1.2 THEN M ELSE N/A -- Statefull.

NOTE 1: Set to "BYE" value in this case.

NOTE 2: To be conformed to RFC 3261 [1], section shall be set to "SIP/2.0.

Comments: Updating covers either sending, addition or modification before forwarding of the header field.

Receiving covers the ability of the proxy to read it.

Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before

forwarding any header field, even if it does not understand it.

A.8.2.2.7.2 CANCEL response parameters

Table A.91: CANCEL response parameters

Prerequ	Prerequisite: A.1/3						
Item	Parameters name	Reference	Sta	itus	Sup	port	
			Updating	Receiving	Updating	Receiving	
1	Status-Line						
1.1	SIP-Version	RFC 3261 [1], section 7.1	Ca91.03	M			
1.2	Status-code	RFC 3261 [1], section 7.1	Ca91.03	M			
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	Ca91.03	M			
2	Headers						
2.1	Call-ID	RFC 3261 [1], section 20	Ca91.03	M			
2.2	Content-Length	RFC 3261 [1], section 20	M	M			
2.3	CSeq	RFC 3261 [1], section 20	Ca91.03	M			
2.4	Date	RFC 3261 [1], section 20	0	0			
2.5	Error-Info	RFC 3261 [1], section 20	0	0			
2.6	From	RFC 3261 [1], section 20	Ca91.03	M			
2.7	Proxy-Authenticate	RFC 3261 [1], section 20	Ca91.04	M			
2.8	Record-Route	RFC 3261 [1], section 20	Ca91.05	Ca91.06			
2.9	Require	RFC 3261 [1], section 20	X	X			
2.10	Retry-After	RFC 3261 [1], section 20	Ca91.01	Ca91.07			
2.11	Server	RFC 3261 [1], section 20	Ca91.01	Ca91.01			
2.12	Supported	RFC 3261 [1], section 20	Ca91.01	Ca91.08			
2.13	Timestamp	RFC 3261 [1], section 20	Ca91.01	Ca91.01			
2.14	То	RFC 3261 [1], section 20	Ca91.03	M			
2.15	User-Agent	RFC 3261 [1], section 20	Ca91.01	Ca91.01			
2.16	Via	RFC 3261 [1], section 20	M	M			
2.17	Warning	RFC 3261 [1], section 20	Ca91.01	Ca91.01			
2.18	WWW-Authenticate	RFC 3261 [1], section 20	N/A	M			

Ca91.01 IF A.77/1.2 THEN O ELSE N/A -- Statefull.

Ca91.02 IF A.92/1.3 THEN M ELSE N/A -- HTTP Authentication.

Ca91.03 IF A.77/1.2 THEN M ELSE N/A -- Statefull.

Ca91.04 IF (A.92/1.3 AND status=407) THEN M ELSE N/A).

Ca91.05 IF (status=18X-2XX) THEN O ELSE N/A.

Ca91.06 IF (status=18X-2XX) THEN M ELSE N/A.

Ca91.07 IF (status= (404,413,480,486,500,503,600,603)) THEN O ELSE N/A.

Ca91.08 IF (status=2XX) THEN O ELSE N/A.

Comments: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Updating covers either sending, addition or modification before forwarding of the header field.

Receiving covers the ability of the proxy to read it.

Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before

forwarding any header field, even if it does not understand it.

A.8.2.3 Call Control Security

A.8.2.3.1 Call Control Security capabilities

Table A.92: Call Control Security capabilities

Item	Security capabilities	Reference	Status	Support
1	HTTP Authentication	RFC 3261 [1], sections 22 and 26.2.3	М	
2	S/MIME	RFC 3261 [1], sections 23 and 26.2.4	0	
3	TLS	RFC 3261 [1], section 26.3.1	М	

A.8.2.3.2 HTTP parameters

Table A.93: Access Authentication

Prerequisite: A.1/3						
Item	Parameters name	Reference	Status	Support		
1	Basic	RFC 2617 [3], section 2	X			
2	Digest	RFC 2617 [3], section 3	M			
Comments	Comments:					

Table A.94: Proxy-Authenticate header

ltem	Parameters name	Reference	Status	Support
1	realm	RFC 2617 [3], section 3.2.1	M	
2	domain	RFC 2617 [3], section 3.2.1	0	
3	nonce	RFC 2617 [3], section 3.2.1	М	
4	opaque	RFC 2617 [3], section 3.2.1	0	
5	stale	RFC 2617 [3], section 3.2.1	0	
6	algorithm	RFC 2617 [3], section 3.2.1	0	
7	qop-options	RFC 2617 [3], section 3.2.1	0	
8	auth-param	RFC 2617 [3], section 3.2.1	0	

Table A.95: Proxy-Authorization header

Item	Parameters name	Reference	Status	Support	
1	username	RFC 2617 [3], section 3.2.2	M		
2	realm	RFC 2617 [3], section 3.2.2	M		
3	nonce	RFC 2617 [3], section 3.2.2	M		
4	digest-uri	RFC 2617 [3], section 3.2.2	M		
5	response	RFC 2617 [3], section 3.2.2	M		
6	algorithm	RFC 2617 [3], section 3.2.2	0		
7	cnonce	RFC 2617 [3], section 3.2.2	0		
8	opaque	RFC 2617 [3], section 3.2.2	0		
9	message-qop	RFC 2617 [3], section 3.2.2	0		
			(see note)		
10	nonce-count	RFC 2617 [3], section 3.2.2	0		
11	auth-param	RFC 2617 [3], section 3.2.2	0		
Comments: If a proxy sends a qop-options header in a proxy-Authenticate then message-quop is mandatory.					

A.8.2.4 Call Control Transport

Table A.96: transport

Prerequisite: A.1/3						
Item	Transport		Status	Support		
1	UDP	RFC 3261 [1], section 18	М			
2	TCP	RFC 3261 [1], section 18	М			
3	Other transport	RFC 3261 [1], section 18	0			
Comments:						

A.8.2.5 Call Control Addressing

A.8.2.5.1 URIs

Table A.97: Call Control URI

Prerequisite: A.1/3						
Item	URI scheme	Reference	Status	Support		
1	SIP	RFC 3261 [1], section 19	М			
2	SIPS	RFC 3261 [1], section 19	М			
Comment	Comments:					

A.8.2.5.2 IP address

Table A.98: Call Control IP Address

Prerequisite: A.1/3						
Item	IP Address format	Reference	Status	Support		
1	IPv4	RFC 3261 [1], section 19	M			
2	IPv6	RFC 3261 [1], section 19	0			
Comments:						

A.8.2.6 Call Control Timers

This table applies only for statefull proxy.

Table A.99: Call Control Timer

ltem	Timer	Reference	Status	Support
1	T1	RFC 3261 [1], section 17.1.2.1 and table 4	М	
2	T2	RFC 3261 [1], section 17.1.2.1 and table 4	М	
3	T4	RFC 3261 [1], section 17.1.2.2 and table 4	М	
4	Timer A	RFC 3261 [1], section 17.1.1.1.2 and table 4	М	
5	Timer B	RFC 3261 [1], section 17.1.1.1.2 and table 4	М	
6	Timer C	RFC 3261 [1], section 16 and table 4	М	
7	Timer D	RFC 3261 [1], section 17.1.1.1.2 and table 4	0	
8	Timer E	RFC 3261 [1], section 17.1.2.2 and table 4	М	
9	Timer F	RFC 3261 [1], section 17.1.2.2 and table 4	0	
10	Timer G	RFC 3261 [1], section 17.2.1 and table 4	М	
11	Timer H	RFC 3261 [1], section 17.2.1 and table 4	М	
12	Timer I	RFC 3261 [1], section 17.2.1 and table 4	М	
			(see note)	
13	Timer J	RFC 3261 [1], section 17.2.2 and table 4	M	
			(see note)	
14	Timer K	RFC 3261 [1], section 17.1.2.2 and table 4	М	
			(see note)	

Prerequisite: A.1/3 and A.77/1.2						
Item	tem Timer Reference Status Sup					
NOTE:	E: Set to zero for reliable transport.					
Comment	Comments:					

A.8.3 Querying for capabilities

This clause contains the PICS proforma tables related to the querying for capabilities operations for a proxy.

A.8.3.1 Querying for capabilities

Table A.100: Querying for capabilities procedures

Prerequisite: A.1/3						
Item procedures Reference Status						
1	Answering to a capabilities query	RFC 3261 [1], section 11	М			
Comment	Comments:					

A.8.3.2 Querying for capabilities Messages

A.8.3.2.1 Querying for capabilities Requests

Table A.101: Querying for capabilities Requests

Prerequisite: A.1/3							
Item	Method	Reference	Status Support			port	
			Forwarding	Answering	Forwarding	Answering	
1	OPTIONS	RFC 3261 [1], section 11	M	М			
Comme	Comments:						

A.8.3.2.2 Querying for capabilities Responses

A.8.3.2.2.1 Querying for capabilities OPTIONS Responses

Table A.102: Querying for capabilities OPTIONS Responses

Prerequi	site: A.1/3			
Item	Status code	Reference	Status	Support
1	1XX			
1.1	100	RFC 3261 [1], section 21.1.1	0	
1.2	180	RFC 3261 [1], section 21.1.2	0	
1.3	181	RFC 3261 [1], section 21.1.3	0	
1.4	182	RFC 3261 [1], section 21.1.4	0	
1.5	183	RFC 3261 [1], section 21.1.5	0	
2	2XX			
2.1	200	RFC 3261 [1], section 21.2	М	
3	3XX			
3.1	300	RFC 3261 [1], section 21.3.1	0	
3.2	301	RFC 3261 [1], section 21.3.2	0	
3.3	302	RFC 3261 [1], section 21.3.3	0	
3.4	305	RFC 3261 [1], section 21.3.4	0	
3.5	380	RFC 3261 [1], section 21.3.5	0	
4	4XX			
4.1	400	RFC 3261 [1], section 21.4.1	0	
4.2	401	RFC 3261 [1], section 21.4.2	Х	
4.3	402	RFC 3261 [1], section 21.4.3	0	

ltem	Status code	Reference	Status	Suppor
4.4	403	RFC 3261 [1], section 21.4.4	0	
4.5	404	RFC 3261 [1], section 21.4.5	0	
4.6	405	RFC 3261 [1], section 21.4.6	X	
4.7	406	RFC 3261 [1], section 21.4.7	0	
4.8	407	RFC 3261 [1], section 21.4.8	0	
4.9	408	RFC 3261 [1], section 21.4.9	0	
4.10	410	RFC 3261 [1], section 21.4.10	0	
4.11	413	RFC 3261 [1], section 21.4.11	0	
4.12	414	RFC 3261 [1], section 21.4.12	0	
4.13	415	RFC 3261 [1], section 21.4.13	0	
4.14	416	RFC 3261 [1], section 21.4.14	0	
4.15	420	RFC 3261 [1], section 21.4.15	0	
4.16	421	RFC 3261 [1], section 21.4.16	0	
4.17	423	RFC 3261 [1], section 21.4.17	0	
4.18	480	RFC 3261 [1], section 21.4.18	0	
4.19	481	RFC 3261 [1], section 21.4.19	0	
4.20	482	RFC 3261 [1], section 21.4.20	0	
4.21	484	RFC 3261 [1], section 21.4.22	0	
4.22	485	RFC 3261 [1], section 21.4.23	0	
4.23	486	RFC 3261 [1], section 21.4.24	0	
4.24	487	RFC 3261 [1], section 21.4.25	0	
4.25	488	RFC 3261 [1], section 21.4.26	0	
4.26	491	RFC 3261 [1], section 21.4.27	0	
4.27	493	RFC 3261 [1], section 21.4.28	Ca102.01	
5	5XX	• •		
5.1	500	RFC 3261 [1], section 21.5.1	0	
5.2	501	RFC 3261 [1], section 21.5.2	0	
5.4	503	RFC 3261 [1], section 21.5.4	0	
5.5	504	RFC 3261 [1], section 21.5.5	0	
5.6	505	RFC 3261 [1], section 21.5.6	0	
5.7	513	RFC 3261 [1], section 21.5.7	0	
6	6XX			
6.1	600	RFC 3261 [1], section 21.6.1	0	
6.2	603	RFC 3261 [1], section 21.6.2	0	
6.3	604	RFC 3261 [1], section 21.6.3	0	
6.4	606	RFC 3261 [1], section 21.6.4	0	
		M ELSE N/A -S/MIME.		

A.8.3.2.3 OPTIONS parameters

A.8.3.2.3.1 OPTIONS request parameters

Table A.103: OPTIONS Request parameters

	isite: A.1/3					
Item	Parameters name	Reference	St	atus	Sup	port
			Updating	Receiving	Updating	Receiving
1	Request-Line					
1.1	Method	RFC 3261 [1], section 7.1	N/A	M		
				(see note 1)		
1.2	Request-URI	RFC 3261 [1], section 7.1	М	M		
1.3	SIP-Version	RFC 3261 [1], section 7.1	N/A	M		
				(see note 2)		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	N/A	0		
2.2	Accept-Encoding	RFC 3261 [1], section 20	N/A	0		
2.3	Accept-Language	RFC 3261 [1], section 20	N/A	0		
2.4	Allow	RFC 3261 [1], section 20	N/A	0		
2.5	Authorization	RFC 3261 [1], section 20	N/A	0		

ltem	Parameters name	Reference	St	atus	Sup	port
			Updating	Receiving	Updating	Receiving
2.6	Call-ID	RFC 3261 [1], section 20	N/A	M		
2.7	Call-Info	RFC 3261 [1], section 20	N/A	0		
2.8	Contact	RFC 3261 [1], section 20	N/A	0		
2.9	Content-Disposition	RFC 3261 [1], section 20	N/A	0		
2.10	Content-Encoding	RFC 3261 [1], section 20	N/A	0		
2.11	Content-Language	RFC 3261 [1], section 20	N/A	0		
2.12	Content-Length	RFC 3261 [1], section 20	М	M		
2.13	Content-Type	RFC 3261 [1], section 20	N/A	0		
2.14	CSeq	RFC 3261 [1], section 20	N/A	M		
2.15	Date	RFC 3261 [1], section 20	0	0		
2.16	From	RFC 3261 [1], section 20	N/A	M		
2.17	Max-Forwards	RFC 3261 [1], section 20	M	M		
2.18	MIME-Version	RFC 3261 [1], section 20	N/A	0		
2.19	Organization	RFC 3261 [1], section 20	0	0		
2.20	Proxy-Authorization	RFC 3261 [1], section 20	N/A	Ca103.01		
2.21	Proxy-Require	RFC 3261 [1], section 20	N/A	0		
2.22	Record-Route	RFC 3261 [1], section 20	0	0		
2.23	Require	RFC 3261 [1], section 20	0	0		
2.24	Route	RFC 3261 [1], section 20	М	M		
2.25	Server	RFC 3261 [1], section 20	N/A	0		
2.26	Supported	RFC 3261 [1], section 20	N/A	0		
2.27	Timestamp	RFC 3261 [1], section 20	N/A	0	-	
2.28	То	RFC 3261 [1], section 20	N/A	М		
2.29	User-Agent	RFC 3261 [1], section 20	N/A	0		
2.30	Via	RFC 3261 [1], section 20	М	М	-	
2.31	Warning	RFC 3261 [1], section 20	N/A	0		
3	Body	RFC 3261 [1], section 7.4	X	0		

Ca103.01 IF A.92/1.3 THEN M ELSE N/A -- HTTP Authentication.

NOTE 1: Set to "OPTIONS" value in this case.

NOTE 2: To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Comments: Updating covers either addition or modification of the header field. Receiving covers the ability of the proxy to read it.

Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before forwarding any header field, even if it does not understand it.

A.8.3.2.3.2 **OPTIONS** response parameters

Table A.104: OPTIONS response parameters

Prerequ	isite: A.1/3					
Item	Parameters name	Reference	Sta	itus	Support	
			Updating	Receiving	Updating	Receiving
1	Status-Line					
1.1	SIP-Version	RFC 3261 [1], section 7.1	M	M		
1.2	Status-code	RFC 3261 [1], section 7.1	M	M		
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	М	M		
2	Headers					
2.1	Accept	RFC 3261 [1], section 20	М	Ca104.01		
2.2	Accept-Encoding	RFC 3261 [1], section 20	M	Ca104.01		
2.3	Accept-Language	RFC 3261 [1], section 20	M	Ca104.01		
2.4	Allow	RFC 3261 [1], section 20	X	Ca104.01		
2.5	Authentication-Info	RFC 3261 [1], section 20	N/A	0		
2.6	Call-ID	RFC 3261 [1], section 20	М	M		
2.7	Call-Info	RFC 3261 [1], section 20	0	0		
2.8	Contact	RFC 3261 [1], section 20	0	0		
2.9	Content-Disposition	RFC 3261 [1], section 20	0	Ca104.01		
2.10	Content-Encoding	RFC 3261 [1], section 20	0	Ca104.01		
2.11	Content-Language	RFC 3261 [1], section 20	0	Ca104.01		
2.12	Content-Length	RFC 3261 [1], section 20	М	M		
2.13	Content-Type	RFC 3261 [1], section 20	Ca84.04	Ca104.01		

Item	Parameters name	Reference Status		Sup	port	
			Updating	Receiving	Updating	Receiving
2.14	CSeq	RFC 3261 [1], section 20	M	М		
2.15	Date	RFC 3261 [1], section 20	0	0		
2.16	Error-Info	RFC 3261 [1], section 20	0	0		
2.17	From	RFC 3261 [1], section 20	M	M		
2.18	MIME-Version	RFC 3261 [1], section 20	0	Ca104.01		
2.19	Organization	RFC 3261 [1], section 20	0	0		
2.20	Proxy-Authenticate	RFC 3261 [1], section 20	Ca84.02	М		
2.21	Record-Route	RFC 3261 [1], section 20	Ca104.05	Ca104.06		
2.22	Require	RFC 3261 [1], section 20	0	М		
2.23	Retry-After	RFC 3261 [1], section 20	Ca104.07	Ca104.07		
2.24	Server	RFC 3261 [1], section 20	0	0		
2.25	Supported	RFC 3261 [1], section 20	Ca104.08	Ca104.09		
2.26	Timestamp	RFC 3261 [1], section 20	0	Ca104.02		
2.27	То	RFC 3261 [1], section 20	M	Ca104.01		
2.28	Unsupported	RFC 3261 [1], section 20	Ca104.10	Ca104.11		
2.29	User-Agent	RFC 3261 [1], section 20	0	Ca104.01		
2.30	Via	RFC 3261 [1], section 20	М	М		
2.31	Warning	RFC 3261 [1], section 20	0	0		
2.32	WWW-Authenticate	RFC 3261 [1], section 20	N/A	М		
3	Body	RFC 3261 [1], section 7.4	0	Ca104.01		

Ca104.01 IF A.77/1.2 THEN O ELSE N/A -- Statefull.

Ca104.02 IF (A.92/1.3 AND status=407) THEN M ELSE N/A).

Ca104.03 IF A.77/1.2 THEN M ELSE N/A -- Statefull.

Ca84.04 IF A.104/3 THEN M ELSE O -- Body.

Ca104.05 IF (status=18X-2XX) THEN O ELSE N/A.

Ca104.06 IF (status=18X-2XX) THEN M ELSE N/A.

Ca104.07 IF (status= (404,413,480,486,500,503,600,603)) THEN O ELSE N/A.

Ca104.08 IF (status=2XX) THEN M ELSE N/A. Ca104.09 IF (status=2XX) THEN O ELSE N/A.

Ca104.10 IF (status=420) THEN M ELSE N/A.

Ca104.11 IF (status=420) THEN O ELSE N/A.

To be conformed to RFC 3261 [1] shall be set to "SIP/2.0".

Updating covers either sending, addition or modification before forwarding of the header field.

Receiving covers the ability of the proxy to read it.

Except Via, Contact, Route and Proxy-Authorization headers, proxy shall not remove before

forwarding any header field, even if it does not understand it.

A.8.3.3 Querying for capabilities Security

A.8.3.3.1 Querying for capabilities Security capabilities

Table A.105: Querying for capabilities Security capabilities

Prerequisite: A.1/3						
Item	Security capabilities	Reference	Status	Support		
1	HTTP Authentication	RFC 3261 [1], sections 22 and 26.2.3	М			
2	S/MIME	RFC 3261 [1], sections 23 and 26.2.4	0			
3	TLS	RFC 3261 [1], section 26.2.1	М			
Commen	s [.]					

A.8.3.3.2 HTTP parameters

Table A.106: Access Authentication

Prerequisite: A.1/3							
Item	Parameters name	Reference	Status	Support			
1	Basic	RFC 2617 [3], section 2	Х				
2	Digest	RFC 2617 [3], section 3	М				
Comments:							

Table A.107: Proxy-Authenticate header

Prerequis	ite: A.1/3			
Item	Parameters name	Reference	Status	Support
1	realm	RFC 2617 [3], section 3.2.1	М	
2	domain	RFC 2617 [3], section 3.2.1	0	
3	nonce	RFC 2617 [3], section 3.2.1	М	
4	opaque	RFC 2617 [3], section 3.2.1	0	
5	stale	RFC 2617 [3], section 3.2.1	0	
6	algorithm	RFC 2617 [3], section 3.2.1	0	
7	qop-options	RFC 2617 [3], section 3.2.1	0	
8	auth-param	RFC 2617 [3], section 3.2.1	0	
NOTE:	If a UAC receives a qop-opti mandatory.	ons header in an Authenticate t	hen messag	e-quop is
Comments	S:			

Table A.108: Proxy-Authorization header

Prerequi	site: A.1/3					
Item	Parameters name	Reference	Status	Support		
1	username	RFC 2617 [3], section 3.2.2	M			
2	realm	RFC 2617 [3], section 3.2.2	M			
3	nonce	RFC 2617 [3], section 3.2.2	M			
4	digest-uri	RFC 2617 [3], section 3.2.2	M			
5	response	RFC 2617 [3], section 3.2.2	M			
6	algorithm	RFC 2617 [3], section 3.2.2	0			
7	cnonce	RFC 2617 [3], section 3.2.2	0			
8	opaque	RFC 2617 [3], section 3.2.2	0			
9	message-qop	RFC 2617 [3], section 3.2.2	0			
			(see note)			
10	nonce-count	RFC 2617 [3], section 3.2.2	0			
11	auth-param	RFC 2617 [3], section 3.2.2	0			
NOTE:	If a UAC receives a qop-options header in an Authenticate then message-quop is					
	mandatory.					
Commen	ts:					

A.8.3.4 Querying for capabilities transport

Table A.109: Querying for capabilities transport

Item	Transport	Reference	Status	Support
1	UDP	RFC 3261 [1], section 18	M	
2	TCP	RFC 3261 [1], section 18	М	
3	Other transport	RFC 3261 [1], section 18	0	

A.8.3.5 Querying for capabilities addressing

A.8.3.5.1 URIs

Table A.110: Call Control URI

Prerequisite: A.1/3							
Item	URI scheme	Reference	Status	Support			
1	SIP	RFC 3261 [1], section 19	М				
2	SIPS	RFC 3261 [1], section 19	М				
Comment	S:						

A.8.3.5.2 IP address

Table A.111: Call Control IP Address

		Reference	Status	Support
1 IP	v4	RFC 3261 [1], section 19	M	
2 IP	v6	RFC 3261 [1], section 19	0	

A.8.3.6 Querying for capabilities Timers

Table A.112: Querying for capabilities Timer

Prerequisite: A.1/3							
Item	Timer	Reference	Status	Support			
1	Timer C	RFC 3261 [1], section 16 and table 4	Ca112.01				
2	Timer J	RFC 3261 [1], section 17.2.2 and table 4	М				
			(see note)				
Ca112.01	Ca112.01 IF A.77/1.2 THEN M ELSE N/A Statefull.						
NOTE: Set to zero for reliable transport.							
Comments:							

A.9 Redirect server

This clause contains the PICS proforma tables related to the SIP Redirect server.

A.9.1 Services

Table A.113: Services

Prerequisite: A.1/4						
Item	Services	Reference	Status	Support		
1	Redirection service	RFC 3261 [1], section 8.3	М			
Comments						

A.9.2 Redirection service

This clause contains the PICS proforma tables related to the redirection operations for the redirect server.

A.9.2.1 Redirection Messages

A.9.2.1.1 Redirection Requests

Table A.114: Call Control Requests

Prerequisite: A.1/4						
Item	Method	Reference	Status	Support		
			Receiving	Receiving		
1	INVITE	RFC 3261 [1], section 13	Oa114.01			
2		RFC 3261 [1], section 15	Oa114.01			
3	CANCEL	RFC 3261 [1], section 9	Ca114.01			
4	OTPION	RFC 3261 [1], section 11	Oa114.01			
Oa114.01	It is mandatory to support at le					
Ca114.01	IF A. 114/1 THEN MELSO N/	A.				
Comments	:					

A.9.2.1.2 Redirection Responses

A.9.2.1.2.1 Redirection INVITE Responses

Table A.115: Redirection INVITE Responses

Item	Status code	Reference	Status	Support
			Sending	Sending
1	1XX			
1.1	100	RFC 3261 [1], sections 21.1.1 and 8.1.3.2	0	
1.2	183	RFC 3261 [1], sections 21.1.5 and 8.1.3.2	0	
3	3XX			
3.1	300	RFC 3261 [1], sections 21.3.1 and 8.1.3.2	Oa115.01	
3.2	301	RFC 3261 [1], section 21.3.2	Oa115.01	
3.3	302	RFC 3261 [1], section 21.3.3	Oa115.01	
3.4	305	RFC 3261 [1], section 21.3.4	Oa115.01	
3.5	380	RFC 3261 [1], section 21.3.5	Oa115.01	
4	4XX			
4.1	400	RFC 3261 [1], section 21.4.1	0	
4.2	401	RFC 3261 [1], section 21.4.2	0	
4.3	402	RFC 3261 [1], section 21.4.3	0	
4.4	403	RFC 3261 [1], section 21.4.4	0	
4.5	404	RFC 3261 [1], section 21.4.5	0	
4.6	405	RFC 3261 [1], section 21.4.6	0	
4.7	407	RFC 3261 [1], section 21.4.8	0	
4.8	408	RFC 3261 [1], section 21.4.9	0	
4.9	410	RFC 3261 [1], section 21.4.10	0	
4.10	413	RFC 3261 [1], section 21.4.11	0	
4.11	414	RFC 3261 [1], section 21.4.12	0	
4.12	416	RFC 3261 [1], section 21.4.14	0	
4.13	480	RFC 3261 [1], section 21.4.18	0	
4.14	484	RFC 3261 [1], section 21.4.22	0	
4.15	485	RFC 3261 [1], section 21.4.23	0	
4.16	486	RFC 3261 [1], section 21.4.24	0	
4.17	488	RFC 3261 [1], section 21.4.26	0	
4.18	491	RFC 3261 [1], section 21.4.27	0	

Prerequis	site: A.1/4 and A.114/	1		•
Item	Status code	Reference	Status	Support
			Sending	Sending
5	5XX			
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	0	
5.2	503	RFC 3261 [1], section 21.5.4	0	
5.3	504	RFC 3261 [1], section 21.5.5	0	
5.4	505	RFC 3261 [1], section 21.5.6	0	
5.5	513	RFC 3261 [1], section 21.5.7	0	
6	6XX			
6.1	600	RFC 3261 [1], section 21.6.1		
6.2	603	RFC 3261 [1], section 21.6.2		
6.3	604	RFC 3261 [1], section 21.6.3		
Oa115.01	It is mandatory to	support at least one of those items.		
Comment	ts:			

A.9.2.1.2.2 Redirection BYE Responses

Table A.116: Redirection BYE Responses

Item	Status code	Reference	Status	Support
			Sending	Sending
1	1XX			
1.1	100	RFC 3261 [1], sections 21.1.1 and 8.1.3.2	0	
1.2	183	RFC 3261 [1], sections 21.1.5 and 8.1.3.2	0	
3	3XX			
3.1	300	RFC 3261 [1], sections 21.3.1 and 8.1.3.2	Oa116.01	
3.2	301	RFC 3261 [1], section 21.3.2	Oa116.01	
3.3	302	RFC 3261 [1], section 21.3.3	Oa116.01	
3.4	305	RFC 3261 [1], section 21.3.4	Oa116.01	
3.5	380	RFC 3261 [1], section 21.3.5	Oa116.01	
4	4XX			
4.1	400	RFC 3261 [1], section 21.4.1	0	
4.2	401	RFC 3261 [1], section 21.4.2	0	
4.3	402	RFC 3261 [1], section 21.4.3	0	
4.4	403	RFC 3261 [1], section 21.4.4	0	
4.5	404	RFC 3261 [1], section 21.4.5	0	
4.6	405	RFC 3261 [1], section 21.4.6	0	
4.7	407	RFC 3261 [1], section 21.4.8	0	
4.8	408	RFC 3261 [1], section 21.4.9	0	
4.9	410	RFC 3261 [1], section 21.4.10	0	
4.10	413	RFC 3261 [1], section 21.4.11	0	
4.11	414	RFC 3261 [1], section 21.4.12	0	
4.12	416	RFC 3261 [1], section 21.4.14	0	
4.13	480	RFC 3261 [1], section 21.4.18	0	
4.14	484	RFC 3261 [1], section 21.4.22	0	
4.15	485	RFC 3261 [1], section 21.4.23	0	
4.16	486	RFC 3261 [1], section 21.4.24	0	
4.17	488	RFC 3261 [1], section 21.4.26	0	
4.18	491	RFC 3261 [1], section 21.4.27	0	
5	5XX			
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	0	
5.2	503	RFC 3261 [1], section 21.5.4	0	
5.3	504	RFC 3261 [1], section 21.5.5	0	
	505	RFC 3261 [1], section 21.5.6	0	
5.4	303	[KI C 3201 [1], Section 21.3.0		

Prerequis	site: A.1/4 and A.114/2			
Item	Status code	Reference	Status	Support
			Sending	Sending
6	6XX			
6.1	600	RFC 3261 [1], section 21.6.1		
6.2	603	RFC 3261 [1], section 21.6.2		
6.3	604	RFC 3261 [1], section 21.6.3		
Oa116.01	It is mandatory to sup	port at least one of those items.		
Comment	ts:			

A.9.2.1.2.3 Redirection CANCEL Responses

Table A.117: Redirection CANCEL Responses

Item	Status code	Reference	Status	Support
			Sending	Sending
1	1XX	RFC 3261 [1], sections 21.1 and 8.1.3.2	Х	
2	2XX			
2.1	200	RFC 3261 [1], section 21.2	М	
3	3XX			
4	4XX			
4.1	400	RFC 3261 [1], section 21.4.1	0	
4.2	401	RFC 3261 [1], section 21.4.2	0	
4.3	403	RFC 3261 [1], section 21.4.4	0	
4.4	404	RFC 3261 [1], section 21.4.5	0	
4.5	406	RFC 3261 [1], section 21.4.7	0	
4.6	408	RFC 3261 [1], section 21.4.9	0	
4.7	413	RFC 3261 [1], section 21.4.11	0	
4.8	414	RFC 3261 [1], section 21.4.12	0	
4.9	481	RFC 3261 [1], section 21.4.19	0	
4.10	482	RFC 3261 [1], section 21.4.20	0	
4.11	484	RFC 3261 [1], section 21.4.22	0	
4.12	485	RFC 3261 [1], section 21.4.23	0	
4.13	487	RFC 3261 [1], section 21.4.25	0	
4.14	488	RFC 3261 [1], section 21.4.26		
5	5XX			
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	М	
5.2	504	RFC 3261 [1], section 21.5.5	0	
5.3	513	RFC 3261 [1], section 21.5.7	0	
6	6XX			
6.1	600	RFC 3261 [1], section 21.6.1	М	
6.2	604	RFC 3261 [1], section 21.6.3	0	

A.9.2.1.2.4 Redirection OPTIONS Responses

Table A.118: Redirection OPTIONS Responses

Prerequis	Prerequisite: A.1/4 and A.114/4						
Item	Status code	Reference	Status	Support			
			Sending	Sending			
1	1XX	·					
1.1	100	RFC 3261 [1], sections 21.1.1 and 8.1.3.2	0				
1.2	183	RFC 3261 [1], sections 21.1.5 and 8.1.3.2	0				
3	3XX						
3.1	300	RFC 3261 [1], sections 21.3.1 and 8.1.3.2	Oa118.01				
3.2	301	RFC 3261 [1], section 21.3.2	Oa118.01				
3.3	302	RFC 3261 [1], section 21.3.3	Oa118.01				
3.4	305	RFC 3261 [1], section 21.3.4	Oa118.01				
3.5	380	RFC 3261 [1], section 21.3.5	Oa118.01				

Item	Status code	Reference	Status	Support
			Sending	Sending
4	4XX			
4.1	400	RFC 3261 [1], section 21.4.1	0	
4.2	401	RFC 3261 [1], section 21.4.2	0	
4.3	402	RFC 3261 [1], section 21.4.3	0	
4.4	403	RFC 3261 [1], section 21.4.4	0	
4.5	404	RFC 3261 [1], section 21.4.5	0	
4.6	405	RFC 3261 [1], section 21.4.6	0	
4.7	407	RFC 3261 [1], section 21.4.8	0	
4.8	408	RFC 3261 [1], section 21.4.9	0	
4.9	410	RFC 3261 [1], section 21.4.10	0	
4.10	413	RFC 3261 [1], section 21.4.11	0	
4.11	414	RFC 3261 [1], section 21.4.12	0	
4.12	416	RFC 3261 [1], section 21.4.14	0	
4.13	480	RFC 3261 [1], section 21.4.18	0	
4.14	484	RFC 3261 [1], section 21.4.22	0	
4.15	485	RFC 3261 [1], section 21.4.23	0	
4.16	486	RFC 3261 [1], section 21.4.24	0	
4.17	488	RFC 3261 [1], section 21.4.26	0	
4.18	491	RFC 3261 [1], section 21.4.27	0	
5	5XX			
5.1	500	RFC 3261 [1], sections 21.5.1 and 8.1.3.2	0	
5.2	503	RFC 3261 [1], section 21.5.4	0	
5.3	504	RFC 3261 [1], section 21.5.5	0	
5.4	505	RFC 3261 [1], section 21.5.6	0	
5.5	513	RFC 3261 [1], section 21.5.7	0	
6	6XX			
6.1	600	RFC 3261 [1], section 21.6.1		
6.2	603	RFC 3261 [1], section 21.6.2		
6.3	604	RFC 3261 [1], section 21.6.3		
a118.01	It is mandatory to	support at least one of those items.		
omment	ts:			

A.9.2.1.3 Redirection parameters

A.9.2.1.3.1 Request parameters

Table A.119: OPTIONS Request parameters

Item	Parameters name	name Reference	Status	Support
			Receiving	Receiving
1	Request-Line	•		
1.1	Method	RFC 3261 [1], section 7.1	М	
1.2	Request-URI	RFC 3261 [1], section 7.1	M	
1.3	SIP-Version	RFC 3261 [1], section 7.1	M	
2	Headers	•	•	
2.1	Authorization	RFC 3261 [1], section 20	0	
2.2	Proxy-Authorization	RFC 3261 [1], section 20	0	

A.9.2.1.3.2 Response parameters

Table A.120: Reponse parameters

Item	Parameters name	Reference	Status	Support
			Sending	Receiving
1	Status-Line	•		
1.1	SIP-Version	RFC 3261 [1], section 7.1	M	
1.2	Status-code	RFC 3261 [1], section 7.1	M	
1.3	Reason-Phrase	RFC 3261 [1], section 7.1	M	
2	Headers			
2.1	Authentication-Info	RFC 3261 [1], section 20	0	
2.2	Contact	RFC 3261 [1], section 20	M	
2.3	Proxy-Authenticate	RFC 3261 [1], section 20	0	

A.9.2.2 Redirection Security

A9.2.2.1 Redirection Security capabilities

Table A.121: Redirection Security capabilities

Item	site: A.1/4 Security capabilities	Reference	Status	Support	
1	HTTP Authentication	RFC 3261 [1], sections 22 and 26.2.3	М		
2	S/MIME	RFC 3261 [1], sections 23 and 26.2.4	0		
3	TLS	RFC 3261 [1], section 26.3.1	M		
Comment	Comments:				

A.9.2.2.2 HTTP parameters

Table A.122: Access Authentication

Prerequisite: A.1/4					
Item	Parameters name	Reference	Status	Support	
1	Basic	RFC 2617 [3], section 2	X		
2	Digest	RFC 2617 [3], section 3	М		
Comment	Comments:				

Table A.123: Authenticate header

ltem	Parameters name	Reference	Status	Support
1	realm	RFC 2617 [3], section 3.2.1	М	
2	domain	RFC 2617 [3], section 3.2.1	0	
3	nonce	RFC 2617 [3], section 3.2.1	M	
4	opaque	RFC 2617 [3], section 3.2.1	0	
5	stale	RFC 2617 [3], section 3.2.1	0	
6	algorithm	RFC 2617 [3], section 3.2.1	0	
7	qop-options	RFC 2617 [3], section 3.2.1	0	
8	auth-param	RFC 2617 [3], section 3.2.1	0	
IOTE:	If a proxy sends a qop-optic mandatory.	ns header in a proxy-Authenticate	then message	e-quop is

Table A.124: Authorization header

Prerequ	site: A.1/4			
Item	Parameters name	Reference	Status	Support
1	username	RFC 2617 [3], section 3.2.2	М	
2	realm	RFC 2617 [3], section 3.2.2	М	
3	nonce	RFC 2617 [3], section 3.2.2	М	
4	digest-uri	RFC 2617 [3], section 3.2.2	М	
5	response	RFC 2617 [3], section 3.2.2	М	
6	algorithm	RFC 2617 [3], section 3.2.2	0	
7	cnonce	RFC 2617 [3], section 3.2.2	0	
8	opaque	RFC 2617 [3], section 3.2.2	0	
9	message-qop	RFC 2617 [3], section 3.2.2	0	
			(see note)	
10	nonce-count	RFC 2617 [3], section 3.2.2	0	
11	auth-param	RFC 2617 [3], section 3.2.2	0	
NOTE:	If a proxy sends a qop-opti mandatory.	ons header in a proxy-Authenticate	then message	-quop is
Commer	ts:			

A.9.2.3 Redirection Transport

Table A.125: transport

Prerequisite: A.1/4						
Item	Transport	Reference	Status	Support		
1	UDP	RFC 3261 [1], section 18	М			
2	TCP	RFC 3261 [1], section 18	М			
3	Other transport	RFC 3261 [1], section 18	0			
Comments	Comments:					

A.9.2.4 Redirection Addressing

A.9.2.4.1 URIs

Table A.126: Redirection URI

Prerequisite: A.1/4				
Item	URI scheme	Reference	Status	Support
1	SIP	RFC 3261 [1], section 19	M	
2	SIPS	RFC 3261 [1], section 19	M	
Comments:				

A.9.2.4.2 IP address

Table A.127: Call Control IP Address

Prerequisite: A.1/4						
Item	IP Address format	Reference	Status	Support		
1	IPv4	RFC 3261 [1], section 19	M			
2	IPv6	RFC 3261 [1], section 19	0			
Comment	Comments:					

A.9.2.5 Redirection Timers

Table A.128: Redirection Timer

Prerequisite: A.1/4					
Item	Timer	Reference	Status	Support	
1	Timer G	RFC 3261 [1], section 17.2.1 and table 4	Ca128.01		
2	Timer H	RFC 3261 [1], section 17.2.1 and table 4	Ca128.01		
3	Timer I	RFC 3261 [1], section 17.2.1 and table 4	Ca128.01		
4	Timer J	RFC 3261 [1], section 17.2.2 and table 4	Ca128.02		
Ca128.01	a128.01 IF A.114/1 THEN M ELSE N/A INVITE server.				
Ca128.02	2 IF (A.114/2 OR A.114/3 OR A.114/4) THEN M ELSE N/A non-INVITE server.				
NOTE:	Set to zero for reliable tran	nsport.			
Comments	s:				

Annex B (informative): Bibliography

- ISO/IEC 9646-2: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 2: Abstract Test Suite specification". (See also ITU-T Recommendation X.291).
- ISO/IEC 9646-3: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 3: The Tree and Tabular Combined Notation" (TTCN). (See also ITU-T Recommendation X.292).
- ISO/IEC 9646-4: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 4: Test realization".
- ISO/IEC 9646-5: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 5: Requirements on test laboratories and clients for the conformance assessment process".
- ISO/IEC 9646-6: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 6: Protocol profile test specification".
- IETF RFC 2616: "Hypertext Transfer Protocol HTTP/1.1".

History

Document history			
V1.1.1	August 2002	Publication	
V2.1.1	October 2003	Publication	
V3.1.1	November 2004	Publication	
V4.1.1	July 2006	Publication	