3GPP TSG-CN Meeting #18 **NP-020634**
New Orleans, USA, 4th - 6th December 2002.

CR-Form-v7

CHANGE REQUEST

⌘ **24.229** **CR** **283** ⌘ **rev** **2** ⌘ Current version: **5.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [X]

Title:	⌘	Support of comp=sigcomp parameter
Source:	⌘	Dynamicsoft, Ericsson, Nokia, Motorola
Work item code:	⌘	IMS-CCR
Date:	⌘	17/11/2002
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	The IETF has developped a mechanism for which a UA or proxy can express the support and willingness to compress SIP messages. This extension is mandatory for all those SIP proxies and User Agents that implement SIP and Sigcomp.
Summary of change:	⌘	Added the support of the draft-ietf-sip-compression to the UE and P-CSCF in Annex A
Consequences if not approved:	⌘	The UE will not be able to know if the P-CSCF can do compression. Viceversa, the P-CSCF will know be able to know if the UE can do compression. Furthermore, the absence of this parameter will introduce a backward compatibility problem in the event that terminals that do not support compression are connected to a P-CSCF in future releases, e.g., through WLAN access.
Clauses affected:	⌘	2, A.2.1.2, A.2.2.2

Other specs affected: ⌘	Y	N		⌘
	X		Other core specifications	24.228
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

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

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

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

First proposed change

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.002: "Network architecture".

[3] 3GPP TS 23.003: "Numbering, addressing and identification".

[4] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".

[5] 3GPP TS 23.218: "IP Multimedia (IM) Session Handling; IM call model".

[6] 3GPP TS 23.221: "Architectural requirements".

[7] 3GPP TS 23.228: "IP multimedia subsystem; Stage 2".

[8] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core Network protocols; Stage 3".

[9] 3GPP TS 25.304: "UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode".

[10] 3GPP TS 26.235: "Packet switched conversational multimedia applications; Default codecs".

[10A] 3GPP TS 27.060: "Mobile Station (MS) supporting Packet Switched Services".

[11] 3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting Packet Based Services and Packet Data Networks (PDN)".

[12] 3GPP TS 29.207: "Policy control over Go interface".

[13] 3GPP TS 29.208: "End to end Quality of Service (QoS) signalling flows".

[14] 3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents".

[15] 3GPP TS 29.229: "Cx and Dx Interfaces based on the Diameter protocol, Protocol details".

[16] 3GPP TS 32.200: "Telecommunication management; Charging management; Charging principles".

[17] 3GPP TS 32.225: "Telecommunication management; Charging management; Charging data description for the IP Multimedia subsystem".

[18] 3GPP TS 33.102: "3G Security; Security architecture".

[19] 3GPP TS 33.203: "Access security for IP based services".

[20] 3GPP TS 44.018: "Mobile radio interface layer 3 specification, Radio Resource Control Protocol".

[21] RFC 2617: "HTTP Authentication: Basic and Digest Access Authentication".

[22] RFC 2806: "URLs for Telephone Calls".

[23] RFC 2833 (May 2000): "RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals".

[24] RFC 2916 (June 1999): "E.164 number and DNS".

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

[26] RFC 3261 (March 2002): "SIP: Session Initiation Protocol".

[27] RFC 3262 (March 2002): "Reliability of provisional responses in Session Initiation Protocol".

[28] RFC 3265 (March 2002): "Session Initiation Protocol Specific Event Notification".

[29] RFC 3311 (April 2002): "The SIP UPDATE method".

[30] RFC 3312 (May 2002): "Integration of resource management and SIP".

[31] RFC 3313 (February 2002): "SIP extensions for media authorization".

[32] RFC 3320 (March 2002): "Signaling Compression (SigComp)"

[33] RFC 3323 (May 2002): "A Privacy Mechanism for the Session Initiation Protocol (SIP)".

[34] RFC 3325 (May 2002): "Private Extensions to the Session Initiation Protocol (SIP) for Network Asserted Identity within Trusted Networks".

[35] RFC 3327 (May 2002): "SIP Extension for Registering Non-Adjacent Contacts".

[36] draft-ietf-sip-refer-05 (June 2002): "The REFER method".

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

[37] draft-sparks-sip-mimetypes-03 (April 2002): "Internet Media Type message/sipfrag".

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

[38] draft-willis-scvrtdisco-06 (May 2002): "SIP Extension Header for Service Route Discovery in Private Networks".

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

[39] draft-ietf-mmusic-sdp-new-10 (May 2002): "SDP: Session Description Protocol".

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

[40] draft-ietf-dhc-dhcpv6-26 (June 2002): "Dynamic Host Configuration Protocol for IPv6 (DHCPv6)".

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

[41] draft-ietf-sip-dhcpv6-00 (April 2002): "DHCPv6 options for SIP servers".

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

[42] draft-ietf-sipping-sigcomp-sip-dictionary-03.txt (July 2002): "The SIP/SDP static dictionary for Signaling Compression".

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

[43] draft-rosenberg-sip-reg-00 (May 2002): "A Session Initiation Protocol (SIP) Event Package for Registrations".

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

[44] draft-garcia-sip-visited-network-id-00 (March 2002): "Private SIP extension for Visited Network Identifier".

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

[45] draft-henrikson-sip-charging-information-01 (May 2002): "Private SIP Extension for Mobile Charging Information".

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

[46] Void.

[47] draft-mills-sip-access-network-info-01.txt (April 2002): "SIP Access Network Information header".

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

[48] draft-ietf-sip-sec-agree-04.txt (June 2002): "Security Mechanism Agreement for SIP Sessions".

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

[49] draft-ietf-sip-digest-aka-03.txt (May 2002): "HTTP Digest Authentication Using AKA".

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

[50] draft-ietf-sip-message-06.txt (July 2002): "Session Initiation Protocol Extension for Instant Messaging"

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

[51] draft-ietf-sip-callerprefs-06.txt (July 2002): "Session Initiation Protocol (SIP) Caller Preferences and Callee Capabilities"

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

[52] draft-ietf-sip-compression-02.txt (October 2002): "Compressing the Session Initiation Protocol"

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

Next proposed change

A.2 Profile definition for the Session Initiation Protocol as used in the present document

A.2.1 User agent role

A.2.1.1 Introduction

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

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

A.2.1.2 Major capabilities

Table A.4: Major capabilities

Item	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
1	client behaviour for registration?	[26] subclause 10.2	m	c3
2	registrar?	[26] subclause 10.3	o	c4
3	client behaviour for session requests?	[26] subclause 13.2	m	o
4	server behaviour for session requests?	[26] subclause 13.3	m	o
5	session release?	[26] subclause 15.1	m	c1
6	timestamping of requests?	[26] subclause 8.2.6.1	o	o
7	authentication between UA and UA?	[26] subclause 22.2	o	o
8	authentication between UA and registrar?	[26] subclause 22.2	o	n/a
9	server handling of merged requests due to forking	[26] 8.2.2.2	m	m
10	client handling of multiple responses due to forking	[26] 13.2.2.4	m	m
11	insertion of date in requests and responses?	[26] subclause 20.17	o	o
12	downloading of alerting information?	[26] subclause 20.4	o	o
	Extensions			
13	The SIP INFO method?	[25]	o	n/a
14	Reliability of provisional responses in SIP?	[27]	o	m
15	the REFER method?	[36]	o	o
16	Integration of resource management and SIP?	[30]	o	m
17	the SIP UPDATE method	[29]	c5	m
18	SIP extensions for caller identity and privacy?	[34]	o	m
19	SIP extensions for media authorization?	[31]	o	m
20	SIP specific event notification	[28]	o	o
21	the use of NOTIFY to establish a dialog	[28] 4.2	o	n/a
22	acting as the notifier of event information	[28]	c2	c2
23	acting as the recipient of event information	[28]	c2	c2
24	Path Extension Header for Establishing Service Route with SIP REGISTER	[35]	o	c6
25	extensions to the Session Initiation Protocol (SIP) for Network Asserted Identity within Trusted Networks	[34]	o	m
26	a Privacy Mechanism for the Session Initiation Protocol (SIP)	[33]	o	m
27	A messaging mechanism for the Session Initiation Protocol (SIP)	[50]	o	m
28	Compressing the Session Initiation Protocol	[52]	o	c7

c1: IF A.4/3 OR A.4/4 THEN m ELSE o.
c2: IF A.4/20 THEN o.1 ELSE n/a.
c3: IF A.3/1 OR A.3/4 THEN m ELSE n/a - - UA or S-CSCF functional entity.
c4: IF A.3/4 OR A.3/7 THEN m ELSE n/a - - S-CSCF or AS functional entity.
c5: IF A.4/16 THEN m ELSE o - - integration of resource management and SIP.
c6: IF (A.150/3 AND A.150/4) THEN m ELSE n/a. - - S-CSCF acting as registrar.
c7: IF A.3/1 THEN m ELSE n/a -- UE behaviour
o.1: At least one of these capabilities is supported.

Next proposed change

A.2.2 Proxy role

A.2.2.1 Introduction

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

Prerequisite: A.2/2 -- proxy role

A.2.2.2 Major capabilities

Table A.162: Major capabilities

Item	Does the implementation support	Reference	RFC status	Profile status
	Capabilities within main protocol			
1	client behaviour for session requests?	[26] 16	m	m
2	server behaviour for session requests?	[26] 16	m	m
3	session release?	[26] 16	m	m
4	Stateless proxy behaviour?	[26] 16.11	o.1	
5	Stateful proxy behaviour?	[26] 16.2	o.1	
6	forking of initial requests	[26] 16.1	c1	n/a
7	support of TLS connections on the upstream side	[26] 16.7	o	n/a
8	support of TLS connections on the downstream side	[26] 16.7	o	n/a
9	insertion of date in requests and responses	[26] 20.17	o	o
10	suppression or modification of alerting information data	[26] 20.4	o	o
11	reading the contents of the Require header before proxying the request or response	[26] 20.32	o	o
12	adding or modifying the contents of the Require header before proxying the REGISTER request or response	[26] 20.32	o	m
13	adding or modifying the contents of the Require header before proxying the request or response for methods other than REGISTER	[26] 20.32	o	o
14	the requirement to be able to insert itself in the subsequent transactions in a dialog	[26] 16.6	o	c2
15	the requirement to be able to use separate URIs in the upstream direction and downstream direction when record routeing	[26] 16.7	c3	c3
16	reading the contents of the Supported header before proxying the response	[26] 20.37	o	o
17	reading the contents of the Unsupported header before proxying the 420 response to a REGISTER	[26] 20.40	o	m
18	reading the contents of the Unsupported header before proxying the 420 response to a method other than REGISTER	[26] 20.40	o	o
19	the inclusion of the Error-Info header in 3xx - 6xx responses	[26] 20.18	o	o
	Extensions			
20	The SIP INFO method?	[25]	o	o
21	Reliability of provisional responses in SIP?	[27]	o	m
22	the REFER method?	[36]	o	o
23	Integration of resource management and SIP?	[30]	o	m
24	the SIP UPDATE method	[29]	c4	m
25	SIP extensions for caller identity and privacy?	[34]	o	m
26	SIP extensions for media authorization?	[31]	o	m
27	SIP specific event notification	[28]	o	o
28	the use of NOTIFY to establish a dialog	[28] 4.2	o	n/a
29	Path Extension Header for Establishing Service Route with SIP REGISTER	[35]	o	c5
30	extensions to the Session Initiation Protocol (SIP) for Network Asserted Identity within Trusted Networks	[34]	o	m

31	a Privacy Mechanism for the Session Initiation Protocol (SIP)	[33]	o	m
32	Compressing the Session Initiation Protocol	52	o	c6

c1: IF A.162/5 THEN o ELSE n/a
c2: IF A.3/4 OR A.3/7 THEN m ELSE IF A.3/3 THEN o ELSE n/a - - S-CSCF or AS else I-CSCF
c3: IF (A.162/7 AND NOT A.162/8) OR (NOT A.162/7 AND A.162/8) THEN m ELSE IF A.162/14 THEN o ELSE n/a - - TLS interworking with non-TLS else proxy insertion
c4: IF A.162/23 THEN m ELSE o - - integration of resource management and SIP
c5: IF A.3/2 OR A.3/3 THEN m ELSE n/a. - - P-CSCF or I-CSCF.
c6: IF A.3/2 THEN m ELSE n/a -- P-CSCF
o.1: It is mandatory to support at least one of these items.