Technical Specification Group Services and System Aspects
Meeting #15, Cheju, Korea, 11-14 March 2002

SP 020153

Source: **dynamicsoft**

Title: **CRs to 23.207, 23.226 and 23.228 to correct obsolete SIP RFC references.**

Document for: **Decision**

Agenda Item: **7.2.2**

Doc-1st-	Spec	CR	R	Pha	Subject	C	Versi	Versi	Doc-2nd-	Workitem
SP-020153	23.207	025		R 5	Correction of references to obsolete SIP RFC 2543 IETF specification	F	5.2.0	5.3.0		IMS-CCR
SP-020153	23.226	002		R 5	Correction of references to obsolete SIP RFC 2543 IETF specification	F	5.1.0	5.20		IMS-CCR
SP-020153	23.228	152		R 5	Correction of references to obsolete SIP RFC 2543 IETF specification	F	5.3.0	5.4.0		IMS-CCR

3GPP TSG-SA Meeting #15
Cheju, Korea, 11th – 14th March 2002

Tdoc SP-020126

CR-Form-v5

CHANGE REQUEST

⌘ **22.228** **CR** 013 ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network **X**

Title:	⌘	Correction of references to obsolete SIP RFC 2543 IETF specification
Source:	⌘	dynamicsoft
Work item code:	⌘	IMS-CCR
Date:	⌘	2002-03-08
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)

Reason for change:	⌘	The IETF IESG has approved the internet drafts RFC 2543bis as RFC 3261, which replaces the now obsolete SIP specification RFC 2543.
Summary of change:	⌘	References to RFC 2543 have been updated to refer to RFC 3261.
Consequences if not approved:	⌘	TS 22.228 will contain references to an obsolete version of the SIP specification and will be out of alignment with stage 3 specifications that are being updated to reference RFC 3261.

Clauses affected:	⌘	2.1		
Other specs affected:	⌘	**X** Other core specifications	⌘	TS 22.101 (CR 093), TS 23.218, TS 24.228, TS 24.229, TS 23.207 (CR 025), TS 23.226 (CR 002), TS 23.228 (CR152), TS 26.235, TS 26.235 (CR 004)
		☐ Test specifications		
		☐ O&M Specifications		
Other comments:	⌘			

FIRST MODIFICATION

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.
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2.1 Normative references

[1] 3GPP TS 22.003: " CS Teleservices supported by a PLMN".

[2] 3GPP TS 22.011: "Service Accessibility".

[3] 3GPP TS 22.060: "General Packet Radio Service (GPRS) stage 1".

[4] 3GPP TS 22.066: "Support of Mobile Number Portability (MNP)".

[5] 3GPP TS 22.101: "Service principles".

[6] 3GPP TS 22.105: "Services and Service Capabilities".

[7] 3GPP TS 22.121: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; The Virtual Home Environment"

[8] 3GPP TS 22.129: "Handover requirements between UMTS and GSM and other Radio Systems".

[9] RFC~~2543~~ 3261: "SIP: Session Initiation Protocol"

[10] 3GPP TS 22.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL); Service definition - Stage 1"

[11] 3GPP TS 22.057: "Mobile Execution Environment (MExE); Service description, Stage 1"

[12] 3GPP TS 22.038: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1"

[13] 3GPP TS 22.127: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Stage 1 Service Requirement for the Open Service Access (OSA)

[14] 3GPP TR 21.905: "Vocabulary for 3GPP specifications"

END OF MODIFICATION

7.5.1 Identification of entities

Both telecom and internet numbering and addressing schemes shall be supported. IP multimedia communication establishment (both mobile originating and terminating) depending on originator shall be able to be based on E.164 (e.g. +1 23 456 789) or SIP URL (sip:my.name@company.org) [9].

It shall be possible for the network operator to use

- the same E.164 number for IP multimedia sessions and CS speech telephony (TS11) [1]
- a different E.164 number if desired for IP multimedia sessions

This allows customers who originally had only an E164 MSISDN to retain the same number for receiving communications in the IM domain and also in the CS domain when outside IM coverage.

3GPP TSG-SA Meeting #15
Cheju, Korea, 11th – 14th March 2002

Tdoc SP-020153

CR-Form-v5

CHANGE REQUEST

⌘ **23.207** **CR** 025 ⌘ rev **-** ⌘ 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: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network **X**

Title:	⌘	Correction of references to obsolete SIP RFC 2543 IETF specification
Source:	⌘	dynamicsoft
Work item code:	⌘	IMS-CCR
Date:	⌘	2002-03-08
Category:	⌘	**F**
Release:	⌘	Rel-5

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REL-5 (Release 5)

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Summary of change:	⌘	References to RFC 2543 have been updated to refer to RFC 3261.
Consequences if not approved:	⌘	TS 23.207 will contain references to an obsolete version of the SIP specification and will be out of alignment with stage 3 specifications that are being updated to reference RFC 3261.

Clauses affected:	⌘	2		
Other specs affected:	⌘	**X** Other core specifications	⌘	TS 22.101 (CR 093), TS 22.228 (CR 013), TS 23.218, TS 24.228, TS 24.229, TS 23.226 (CR 002), TS 23.228 (CR152), TS 26.235 (CR 004)
		☐ Test specifications		
		☐ O&M Specifications		
Other comments:	⌘			

FIRST MODIFICATION

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[1] 3GPP TS 22.288: "Service requirements for the IP Multimedia – stage 1".

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

[3] 3GPP TS 23.107: "QoS Concept and Architecture".

[4] 3GPP TS 23.228: "IP Multimedia (IM) Subsystem – stage 2".

[5] 3GPP TS 22.105: "Vocabulary for 3GPP Specifications".

[6] RFC 2475: "An Architecture for Differentiated Services (Diffserv)".

[7] RFC 2753: "A Framework for Policy-based Admission Control ".

[8] RFC 2748: "Common Open Policy Service protocol (COPS)".

[9] RFC 2205: "Resource ReSerVation Protocol (RSVP)".

[10] RFC 2209: "Resource ReSerVation Protocol (RSVP) Message Processing Rules".

[11] RFC 2210: "The use of RSVP with IETF integrated Services".

[12] RFC 1633: "Integrated Services in the Internet Architecture: an Overview".

[13] RFC 3261~~2543~~: "SIP: Session Initiation Protocol".

[14] RFC 2327: "Session Description Protocol".

[15] RFC 2998: "A Framework For Integrated Services Operation Over DiffServ Networks".

[16] RFC 2750: "RSVP Extensions for Policy Control".

[17] RFC 2474: "Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers".

[18] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

3GPP TSG-SA Meeting #15
Cheju, Korea, 11th – 14th March 2002

Tdoc SP-020153

CR-Form-v5

CHANGE REQUEST

⌘ **23.226** **CR** 002 ⌘ rev **-** ⌘ Current version: **5.1.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of references to obsolete SIP RFC 2543 IETF specification
Source:	⌘	dynamicsoft
Work item code:	⌘	IMS-CCR
Date:	⌘	2002-03-08
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
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Summary of change:	⌘	References to RFC 2543 have been updated to refer to RFC 3261.
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Clauses affected:	⌘	2		
Other specs affected:	⌘	☒ Other core specifications	⌘	TS 22.101 (CR 093), TS 22.228 (CR 013), TS 23.218, TS 24.228, TS 24.229, TS 23.207 (CR 025), TS 23.228 (CR152), TS 26.235 (CR 004)
		☐ Test specifications		
		☐ O&M Specifications		
Other comments:	⌘			

FIRST MODIFICATION

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- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] 3GPP TS 22.101: “Service Principles”

[2] 3GPP TS 22.121: “The Virtual home Environment”

[3] 3GPP TS 22.226: "Global Text Telephony " Stage 1 service description.

[4] ITU-T V.18 Operational procedures for modems in the text telephone mode.

[5] ITU-T T.140 Text conversation presentation protocol

[6] 3GPP 26.110 Codec for 3G CS Multimedia (2000)

[7] ITU-T H.323 Annex G, Text conversation and text SET (2000)

[8] ITU-T H.224 (2000) Very low bitrate multimedia system

[9] ITU-T H.248 Annex F, Facsimile, Text Conversation and Call Discrimination Packages

[10] IETF RFC 2793 RTP-Text. RTP Payload for Text Conversation.

[11] IETF RFC ~~2543~~ 3261 "SIP: Session Initiation Protocol"

[12] 3GPP TS 26.226 CTM Cellular Text telephony Modem, General description

[13] ITU-T F.703 Multimedia Conversation Service Description (2000)

[14] 3GPP TS 26.235 Codec for packet switched conversation

[15] 3GPP TS 48.008 Mobile-services Switching Centre - Base Station System (MSC - BSS) interface; Layer 3 specification

[16] 3GPP TS 24.008 Mobile radio interface layer 3 specification; Core Network Protocols - Stage 3

END OF MODIFICATION

3.1.2.3 Transport and transmission host environments

When text transmission is activated, a suitable transmission method in the PLMN is selected. The appropriate method to

use is selected according to the call environment. The environments valid for GTT are called GTT Host environments:

1. IP Multimedia, according to IPMM subsystem with IETF SIP [11].
2. Circuit Switched Multimedia according to 3G.324.
3. Circuit switched voice channel.

Other methods to establish real time text conversation exist and may be used without further standardisation, using basic communication services of the PLMN. One example:

Digital data transmission in a data channel can be used for real time text conversation. For cases when only text conversation is wanted, there are a multitude of ways to implement that kind of communication. It can for example be done through a HTML based server, with an already established mainstream mechanisms that do not require text conversation specific functions to be stored in the terminals. An alternative may be to use GSM circuit switched data functions for text telephones that are compatible with the modem characteristics provided.

4.1 GTT-IP IP Multimedia

IP Multimedia, supported by the IPMM subsystem, is a suitable environment for real time text conversation. It shall use IETF SIP [11], with text coded according to ITU-T T.140 and transported with IETF RTP-text [10] as indicated in 3G TS 26.235 [14]. This allows conversation in a selection of simultaneous media, such as text, video and voice.

Inclusion of the text conversation shall be done according to normal SIP and IPMM procedures, where the text media stream is handled as any other media. GTT-IP has no architecture influence on the 3G network, only that the components must allow handling of the standardised text media stream.

Note: This way of using mainstream procedures opens possibilities to utilize the flexibility of the SIP protocol for enhanced services. The user can interact in the service offering to optimise the stream handling. This may be used for flexible ways of invoking relay services for media conversion according to the desire of the users.