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

Source: TSG CN WG4

Title: Corrections on IP-based Multimedia Services

Agenda item: 8.1

Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.003	057		N4-021233	Rel-5	Correction of the private user identity's form	F	5.4.0
23.003	059		N4-021386	Rel-5	Correction to the form of public user identity	F	5.4.0
23.008	061	1	N4-021507	Rel-5	Correction to the form of public user identity	F	5.2.0

3GPP TSG CN WG4 Meeting #16 Miami, USA, 23rd - 27th September 2002

		CHANGE	REQUE	ST			CR-Form-v7
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For <u>HELP</u> on usin		e bottom of this		·	ss Network	_	mbols. etwork X
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Source: # 0	CN4						
Work item code: ₩	IMS-CCR				Date:	7/09/2002	
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Consequences if not approved:							
Clauses affected:	ж 13.3 Y N						
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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.
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3)	With "track changes" disabled, paste the entire CR form (the clause containing the first piece of changed text. Del the change request.	(use CTRL-A to select it) into the specification just in front of ete those parts of the specification which are not relevant to

13.3 Private user identity

The private user identity shall take the form of an NAI, and shall have the form user<u>name</u>@realm as specified in clause 3 of RFC2486 [25].

NOTE: It is possible for a representation of the IMSI to be contained within the NAI for the private identity.

If there is no ISIM application, the private user identity is not known. In this case, the private user identity is derived from the IMSI.

The following steps show how to build the private user identity out of the IMSI:

- 1. use the whole string of digits as the username part of the private user identity; and
- 2. the first digits of the IMSI, i.e. MNC and MCC, will be converted into a domain name, as described in subclause 13.2.

The result will be a private user identity of the form $\underline{imsi@mnc.mcc}$."IMSI.3gppnetwork.org". For example: If the IMSI is 23415099999999 (MCC = 234, MNC = 15), the private user identity then takes the form 2341509999999@15.234.IMSI.3gppnetwork.org

3GPP TSG CN WG4 Meeting #17 Bangkok, THAILAND, 11th - 15th November 2002

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- 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.

-----Beginning of first modified section-----

1.1 References

[22]

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 TS 21.905: "3G Vocabulary". [2] 3GPP TS 23.008: "Organization of subscriber data". [3] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2" [4] 3GPP TS 23.070: "Routeing of calls to/from Public Data Networks (PDN)". [5] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage [6] 3GPP TS 29.060: "GPRS Tunnelling protocol (GPT) across the Gn and Gp interface". [7] 3GPP TS 43.020: "Security related network functions". [8] GSM 09.03: "Digital cellular telecommunications system (Phase 2+); Signalling requirements on interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN)". GSM 11.11: "Digital cellular telecommunications system (Phase 2+); Specification of the [9] Subscriber Identity Module - Mobile Equipment (SIM - ME) interface". [10] ITU-T Recommendation E.164: "The international public telecommunication numbering plan". ITU-T Recommendation E.212: "The international identification plan for mobile terminals and [11] mobile users". [12] ITU-T Recommendation E.213: "Telephone and ISDN numbering plan for land Mobile Stations in public land mobile networks (PLMN)". [13] ITU-T Recommendation X.121: "International numbering plan for public data networks". [14] RFC 791: "Internet Protocol". [15] RFC 2373: "IP Version 6 Addressing Architecture". [16] 3GPP TS 25.401: "UTRAN Overall Description". 3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling". [17][18] RFC 2181: "Clarifications to the DNS Specification". RFC 1035: "Domain Names - Implementation and Specification". [19] [20] RFC 1123: "Requirements for Internet Hosts -- Application and Support". [21] RFC 2462: "IPv6 Stateless Address Autoconfiguration".

RFC 3041: "Privacy Extensions for Stateless Address Autoconfiguration in IPv6".

[23]	3GPP TS 23.236: "Intra Domain Connection of RAN Nodes to Multiple CN Nodes".
[24]	3GPP TS 23.228: "IP Multimedia (IM) Subsystem – Stage 2"
[25]	RFC 2486: "The Network Access Identifier"
[26]	RFC 3261: "SIP: Session Initiation Protocol"
[27]	3GPP TS 31.102: "Characteristics of the USIM Application."
[28]	RFC 1035: "Domain names – implementation and specification"
[29]	3GPP TS 44.118: "Radio Resource Control (RRC) Protocol, Iu Mode"
[30]	RFC 2806: "URLs for Telephone Calls".

-----End of first modified section-----

-----Beginning of second modified section------

13.4 Public user identity

The public user identity shall take the form of either a SIP URI, see RFC3261[26] or a tel URL, see RFC 2806 [30]
E.164 number. A SIP URI shall take the form "sip:user@domain".

If there is no ISIM application to host the public user identity, a temporary public user identity shall be derived, based on the IMSI. The temporary public user identity shall be of the form "user@domain" and shall therefore be equal to the private user identity. The private user identity is derived as per subclause 13.2. That is, the private user identity will be appended to the string "sip:"

EXAMPLE: "sip:23415099999999@15.234.IMSI.3gppnetwork.org".

-----End of second modified section-----

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How to create CRs using this form:

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Other comments:

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O&M Specifications

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- [1] 3GPP TR 21.905: "3G Vocabulary for 3GPP Specifications". [2] 3GPP TS 22.002: "Bearer Services (BS) supported by a GSM PLMN". [3] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)" [4] 3GPP TS 22.004: "General on supplementary services". [5] 3GPP TS 23.003: "Numbering, addressing and identification". [6] 3GPP TS 23.007: "Restoration procedures". [7] 3GPP TS 23.009: "Handover procedures". [8] 3GPP TS 23.012: "Location registration procedures". [9] 3GPP TS 23.015: "Technical realization of operator determined barring (ODB)". [10] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS) Point-to-Point". [11] 3GPP TS 22.060: "General Packet Radio Service (GPRS); Stage 1". [12] 3GPP TS 23.067: "Enhanced Multi-Level Precedence and Preemption service (EMLPP) - Stage 3GPP TS 23.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL) -[13] Stage 2". [14] 3GPP TS 23.081: "Line identification Supplementary Services - Stage 2". 3GPP TS 23.082: "Call Forwarding (CF) Supplementary Services - Stage 2". [15] [16] 3GPP TS 23.083: "Call Waiting (CW) and Call Hold (HOLD) Supplementary Services - Stage 2". 3GPP TS 23.084: "Multi Party (MPTY) Supplementary Service - Stage 2". [17] 3GPP TS 23.085: "Closed User Group (CUG) Supplementary Service - Stage 2". [18] 3GPP TS 23.086: "Advice of Charge (AoC) Supplementary Service - Stage 2". [19] [20] 3GPP TS 23.088: "Call Barring (CB) Supplementary Service - Stage 2". [21] 3GPP TS 23.060: "General Packet Radio Service (GPRS) Service Description; Stage 2". [22] 3GPP TS 23.078: "CAMEL, stage2". 3GPP TS 23.090: "Unstructured Supplementary Service Data (USSD) - Stage 2". [23]

3GPP TS 23.116: "Super-Charger Technical Realisation; Stage 2."

[25]	3GPP TS 23.135: "Multicall supplementary service; Stage 2"
[26]	3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core Network Protocols - Stage 3".
[27]	3GPP TS 29.002: "Mobile Application Part (MAP) specification".
[28]	3GPP TS 29.007: "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".
[29]	3GPP TS 29.060: "GPRS Tunnelling protocol (GTP) accross the Gn and Gp interface".
[30]	3GPP TS 42.032: "Digital cellular telecommunications system (Phase 2+); Immediate Service Termination (IST) Service Description - Stage 1".
[31]	3GPP TS 43.020: "Digital cellular telecommunications system (Phase 2+); Security related network functions".
[32]	3GPP TS 43.035: "Digital cellular telecommunications system (Phase 2+); Immediate Service Termination (IST) Stage 2".
[33]	3GPP TS 43.068: "Digital cellular telecommunications system (Phase 2+); Voice Group Call Service (VGCS) - Stage 2".
[34]	3GPP TS 43.069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS) - Stage 2".
[35]	3GPP TS 23.071: "Location Services (LCS); Functional Description; Stage 2".
[36]	GSM 12.03: "Digital cellular telecommunications system (Phase 2); Security management".
[37]	GSM 12.08: "Digital cellular telecommunications system (Phase 2); Subscriber and Equipment Trace".
[38]	ITU-T Recommendation Q.763: "Specifications of Signalling System No.7; Formats and codes".
[39]	ANSI T1.113: "Signalling System No7 (SS7) Integrated Services Digital Network (ISDN) User Part" [40] 3GPP TS 32.005 "Telecommunications Management; Charging and billing: GSM call and event data for the Circuit Switched (CS) domain"
[41]	3GPP TS 32.015 "Telecommunications Management; Charging and billing: GSM call and event data for the Packet Switched (PS) domain"
[42]	3GPP TS 23.228: "IP Multimedia (IM) Subsystem - Stage 2".
[43]	3GPP TS 29.228 "IP Multimedia Subsystem Cx interface; signalling flows and message contents"
[44]	3GPP TS 29.229 "Cx Interface based on the Diameter protocol; Protocol details"
[45]	IETF RFC 3261: "SIP: Session Initiation Protocol";
[46]	IETF RFC 2396: "Uniform Resource Identifiers (URI): generic syntax"
[47]	ITU-T Recommendation E.164: "Numbering plan for the ISDN cra
[48]	IETF RFC 2486: "The Network Access Identifier"
[49]	3GPP TS 33.203 "Access security for IP-based services"
[50]	3GPP TS 23.002 "Network architecture"
[51]	draft-ietf-aaa-diameter-08.txt: "Diameter Base Protocol", work in progress
[52]	3GPP TS 33.102 "Security architecture"
[53]	3GPP TS 23.218 "IP Multimedia (IM) call model"