#### NP-040413

# 3GPP TSG CN Plenary Meeting #25 8<sup>th</sup> – 10<sup>th</sup> August 2004 Palm Springs, US.

Source:	TSG CN WG4
Title:	Corrections on WLAN
Agenda item:	9.17
Document for:	APPROVAL

Spec	CR	Rev	Doc-2nd-Level N4-040	Phase	Subject	Cat	Ver_C
23.003	090	2	827	Rel-6	Decorated NAI format	В	6.3.0
23.003	091	1	1145	Rel-6	Introduction of temporary identities	В	6.3.0

# 3GPP TSG-CN4 Meeting #23bis Helsinki, Finland 21-23 June 2004

## Tdoc N4-040827

CHANGE REQUEST								
<sup>អ</sup> 23.	003	CR	<b>090</b>	<b>πev</b>	<b>2</b> <sup>#</sup>	Current vers	<sup>ion:</sup> 6.3.0	ж
For <u>HELP</u> on u	sing this fo	rm, see bot	ttom of this	page or l	look at tl	ne pop-up text	over the X syr	nbols.
Proposed change a	affects:	UICC apps	¥	ME X	Radio A	Access Networ	rk Core Ne	etwork X
Title: ೫	Decorate	d NAI form	at					
Source: अ	CN4							
Work item code: अ	WLAN					<i>Date:</i> ೫	21/06/2004	
Category: ⊮	B Use <u>one</u> of F (co. A (co B (ad C (fur D (ed Detailed ex be found in	the following rrection) rresponds to dition of feat itorial modifie planations o 3GPP <u>TR 2</u>	g categories: a correction ure), ification of fe cation) f the above o <u>1.900</u> .	in an ear ature) categories	<i>lier releas</i> s can	Release: ℜ Use <u>one</u> of 2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-6 the following rele (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)	eases:
Reason for change Summary of chang	e: X The form draf rfc2 ge: X Form defin roar Refe	format of D nat were stil t IETF Inter 486bis-00 a mat of Decc ned in IETF nops-rfc248 erence to th	Decorated N I going on in net-Draft: 'T and therefor prated NAI h Internet-Dr 36bis-00. ie draft has	IAI was s n IETF. N The Network the the for nas been raft: 'The been ad	atill FFS Now the York Accommat can added t Network ded.	in TS 23.003 s format has be ess Identifier'.c already be de o clause 14.4 c Access Ident	ince discussion en specified in draft-arkko-roan fined in 3GPP. according to th ifier'.draft-arkko	ns on the a new mops- e format
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Clauses affected: Other specs affected:	#     14.4       ¥     N       #     X       X     X	, 1.1.1 Other cor Test spec O&M Spe	e specificat cifications ecifications	ions	¥			
Other comments:	ж							

#### How to create CRs using this form:

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- 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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## FIRST CHANGE

# 14.4 Decorated NAI

Editor's note: it is FFS whether selected VPLMN(s) will be indicated in a prefix (i.e. <u>vplmn1.com/vplmn2.com/username@home</u> realm) or in a suffix format (i.e. <u>username@vplmn1.vplmn2.home</u> realm). See draft adrangi eap network discovery and selection [49].

The Decorated NAI shall take the form of a NAI and shall have the form 'homerealm!username@otherrealm' as specified in clause 3 of **RFC** the IETF draft 2486-bis [xx].

The realm part of Decorated NAI consists of <u>'homerealm' and</u>'otherrealm', see the IETF draft <u>RFC</u> 2486-bis [xx]. 'Homerealm' is the realm as specified in clause 14.2, using the HPLMN ID ('homeMCC' + 'homeMNC)'. 'Otherrealm' is the realm built using the PLMN ID (visitedMCC + visited MNC) of the PLMN selected as a result of WLAN PLMN selection (see 3GPP TS 24.234 [48]).

The username part format of the Root NAI shall comply with draft-arkko-pppext-eap-aka [50] when EAP AKA authentication is used and with draft-haverinen-pppext-eap-sim [51], when EAP SIM authentication is used.

When the username part of Decorated NAI includes the IMSI, it shall be built following the same steps specified for Root NAI in clause 14.3.

The result will be a decorated NAI of the form:

"wlan.mnc<homeMNC>.mcc<homeMCC>.3gppnetwork.org !0<IMSI>@<visitedMNC>.<visitedMCC>", for EAP
AKA authentication and " wlan.mnc<homeMNC>.mcc<homeMCC>.3gppnetwork.org
!1<IMSI>@<visitedMNC>.<visitedMCC>", for EAP SIM authentication

# SECOND CHANGE

## 1.1 References

### 1.1.1 Normative 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 TS 21.905: "3G Vocabulary".
- [2] 3GPP TS 23.008: "Organization of subscriber data".

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[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 3".
[6]	3GPP TS 29.060: "GPRS Tunnelling protocol (GPT) across the Gn and Gp interface".
[7]	3GPP TS 43.020: "Digital cellular telecommunications system (Phase 2+); Security related network functions".
[8]	void
[9]	3GPP TS 51.011: " Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".
[10]	ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
[11]	ITU-T Recommendation E.212: "The international identification plan for mobile terminals and 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".
[17]	3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling".
[18]	RFC 2181: "Clarifications to the DNS Specification".
[19]	RFC 1035: "Domain Names - Implementation and Specification".
[20]	RFC 1123: "Requirements for Internet Hosts Application and Support".
[21]	RFC 2462: "IPv6 Stateless Address Autoconfiguration".
[22]	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]	void
[29]	3GPP TS 44.118: "Radio Resource Control (RRC) Protocol, Iu Mode".
[30]	3GPP TS 23.073: "Support of Localised Service Area (SoLSA); Stage 2"
[31]	3GPP TS 29.002: "Mobile Application Part (MAP) specification"
[32]	3GPP TS 22.016: "International Mobile Equipment Identities (IMEI)"
[33]	void
[34]	void

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- [35] 3GPP TS 45.056: "CTS-FP Radio Sub-system"
- [36] 3GPP TS 42.009: "Security aspects" [currently not being raised to rel-5 Pete H. looking into it]
- [37] 3GPP TS 25.423: "UTRAN Iur interface RNSAP signalling"
- [38] 3GPP TS 25.419: "UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)"
- [39] 3GPP TS 25.410: "UTRAN Iu Interface: General Aspects and Principles"
- [40] ISO/IEC 7812: "Identification cards Numbering system and registration procedure for issuer identifiers"
- [41] 3GPP TS 31.102 "Characteristics of the USIM Application"
- [42] 3GPP TS 33.102 "3G security; Security architecture"
- [43] 3GPP TS 43.130: "Iur-g interface; Stage 2"
- [45] RFC 2806: "URLs for Telephone Calls"
- [46] 3GPP TS 44.068: "Group Call Control (GCC) protocol".
- [47] 3GPP TS 44.069: "Broadcast Call Control (BCC) Protocol ".
- [48] 3GPP TS 24.234: "3GPP System to WLAN Interworking; UE to Network protocols; Stage 3".
- [49] IETF Internet-Draft: "Network Discovery and Selection within the EAP Framework". draftadrangi-eap-network-discovery-and-selection-00, work in progress.
- [50] IETF Internet-Draft: "EAP AKA Authentication". draft-arkko-pppext-eap-aka-11, work in progress.
- [51] IETF Internet-Draft: "EAP SIM Authentication". draft-haverinen-pppext-eap-sim-12, work in progress.
- [52] 3GPP TS 23.246: "Multimedia Broadcast/Multicast Service (MBMS); Architechture and functional description"
- [xx] IETF Internet-Draft: 'The Network Access Identifier'.draft-arkko-roamops-rfc2486bis-00, work in progress.

### 3GPP TSG CN WG4 Meeting #24 Sophia Antipolis, France, 16-20 August 2004

CR-Form-v7 CHANGE REQUEST					
<sup>ж</sup> 23.0	<mark>03</mark> CR 091	ະrev <mark>1</mark> ະ	Current version:	6.3.0 <sup>#</sup>	
For <u>HELP</u> on usi	ing this form, see bottom of th	is page or look at th	ne pop-up text over	the	
Proposed change af	f <b>fects:</b> UICC apps <b>೫</b> <mark></mark>	ME 🗙 Radio A	Access Network	Core Network X	
Title: भ	Introduction of temporary ide	ntities			
Source: ж	CN4				
Work item code: %	WLAN		<i>Date:</i> ೫ <mark>29/</mark>	06/2004	
Category: ສ ເ	B Jse <u>one</u> of the following categoria F (correction) A (corresponds to a correct B (addition of feature), C (functional modification of D (editorial modification) Detailed explanations of the above be found in 3GPP <u>TR 21.900</u> .	es: ion in an earlier releas f feature) re categories can	Release: ℜ Rel Use <u>one</u> of the fo 2 (GSN ce) R96 (Rele R97 (Rele R98 (Rele R99 (Rele Rel-4 (Rele Rel-5 (Rele Rel-6 (Rele	-6 Ilowing releases: 1 Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4) ase 5) ase 6)	
Reason for change:	<ul> <li>CN1 has agreed on con that are now implemented temporary identies form I-WLAN parameters (se</li> </ul>	tributions on tempor ed in TS 24.234. It's at has to be include e Editor's Note on 2	the CN1 understar d in TS 23.003 into 4.234 section 6.1.1	he "deleted" value oding that the the clause 14 for .2.2).	
Summary of change	: # New sub-clause is introd what value (FF) is used	duced in order to sp to indicate no exista	ecify the temporary ance of the tempora	identities and ary identity.	
Consequences if not approved:	# Temporary identities rer (i.e. TS 23.003). Misalig remains.	nains not being defi nment with CN1 spe	ned in the appropria ecification on I-WLA	ate specification AN (i.e. TS 24.234)	
Clauses affected:	₩ 1.1.1, New sub-clause 1	4.X			
Other specs affected:	YNXOther core specificXTest specificationsXO&M Specification	cations %			
Other comments:	ж				

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[52]	3GPP TS 23.246: "Multimedia Broadcast/Multicast Service (MBMS); Architechture and functional description".
[xx]	IETF RFC 2279: "UTF-8, a transformation format of ISO 10646".

 [xy]
 3GPP TS 33.234: "Wireless Local Area Network (WLAN) interworking security".

 [xz]
 IETF Internet-Draft: 'The Network Access Identifier'.draft-arkko-roamops-rfc2486bis-00, work in progress.

### Next change

# 14.X Temporary identities

The Temporary identities (Pseudonyms and re-authentication identities) shall take the form of a NAI username as specified in clause 3 of the IETF draft 2486-bis [xz].

Temporary identity shall be generated as specified in subclause 6.4.1 of 3GPP TS 33.234 [xy]. This part of the temporary identity shall follow the UTF-8 transformation format specified in RFC 2279 [xx] except for the following reserved hexadecimal octet value:

FF.

When the temporary identity username is coded with FF, this reserved value is used to indicate the special case when no valid temporary identity exists in the WLAN UE (see 3GPP TS 24.234 [48]). The network shall not allocate a temporary identity with the whole username coded with the reserved hexadecimal value FF.