**3GPP TSG CN Plenary Meeting #27** **NP-040519**
**9th – 11th March 2005 Tokyo, JAPAN**

**Source:** TSG CN WG4

**Title:** Output Liaison statements after CN#26

**Agenda item:** 6.4.1

**Document for:** INFORMATION

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| Tdoc | Tdoc Title | LS to | LS cc | LS Attachment |
|---|---|---|---|---|
| N4-050383 | LS on 3GPP Diameter allocations for Gx interface | CN3 | | N4-050204 |
| N4-050344 | Reply to Reply LS on Need for the IMSI at the PDG | SA3 LI | | |
| N4-050462 | LS Response to LS on Allocation of Diameter Command Codes and AVP codes | T2 | | |
| N4-050466 | LS on Cooperation with TISPAN NGN for IMS-CS MGW protocol | ETSI TISPAN | CN, CN3 | N4-050239 |
| N4-050431 | LS on Clarification on deletion of "Subscribed Charging Characteristics" | SA5 | | N4-050430 |
| N4-050450 | LS on Mandating functionality in WLAN ANs | SA1, SA2, SA5 | | |
| N4-050452 | Access to Liberty Alliance data schemas | Liberty Alliance (LAP) | | |
| N4-050478 | Addition to WLAN Stage 2 Ruling Wn Out of Scope for 3GPP | SA2 | | N4-050123 |
| N4-050479 | Reply LS on Impact of Shared User Identities on the Sh Interface | SA5 | SA2 | |

**3GPP TSG-CN WG4 Meeting #26** **N4-050344**

**Sydney, AUSTRALIA. 14th to 18th February 2005.**

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**Title:** Reply to Reply LS on Need for the IMSI at the PDG

**Release:** Rel-6

**Work Item:** WLAN Interworking

**Source:** CN4 (CT4 after CN#27 March 2005)

**To:** SA3 LI

**Cc:**

**Contact Person:**

**Name:** Paul Sitch

**Tel. Number:** +1 650 996 3742

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**Attachments: None.**

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CN4 thanks SA3 LI for its reply LS on the need for the IMSI at the PDG.

CN4 would like to confirm that the MSISDN is indeed available at the PDG. Therefore MSISDN based intercept in Release-6 can be enabled at the PDG in Release 6.

Actions:

None

**Date of Next TSG-SA3-LI Meeting:**

| | | |
|---|---|---|
| CT4 #27 | 25-29 April 2005 | Cancun, Mexico |

# 3GPP TSG CN WG4 Meeting #26 N4-050383
# Sydney, Australia, 14 - 18 February 2005

**Title:** **LS on 3GPP Diameter allocations for Gx interface**

**Release:** Rel-6
**Work Item:** TEI6

**Source:** CN4
**To:** CN3

**Contact Person:**
**Name:** Mikko Aittola
**E-mail Address:** **mikko.aittola@nokia.com**

**Attachments:** N4-050204.doc

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## 1. Overall description

CN4 has added 3GPP AVP-codes and Experimental-Result-Codes described in LS on Allocation of 3GPP specific AVP numbers and Experimental Result Codes for Gx interface (N3-050135, N4-050372) to 3GPP TS 29.230 with the exception of charging function address AVPs. As a result of this some of the allocated AVP-codes are different compared to the codes in the CN3 LS. The allocated AVP-codes can be found in the CR (N4-050204.doc) that is attached.

CN4 proposes that existing 3GPP charging function address AVPs are utilized in Gx interface. CN4 also informs that Charging-Information grouped AVP is available.

| AVP Code | Attribute Name | Data Type | Specified in the 3GPP TS |
|---|---|---|---|
| 618 | Charging-Information | Grouped | 29.229 |
| 619 | Primary-Event-Charging-Function-Name | DiameterURI | |
| 620 | Secondary-Event-Charging-Function-Name | DiameterURI | |
| 621 | Primary-Charging-Collection-Function-Name | DiameterURI | |
| 622 | Secondary-Charging-Collection-Function-Name | DiameterURI | |

## 2. Actions

CN4 kindly asks CN3 to take the modified AVP-code allocations and the existing charging function address AVPs in account in their specifications.

## 3. Date of Next CN4 Meeting

CT4#27 25-29 April 2005, Cancun, Mexico

**3GPP TSG-CN WG4 Meeting #26** **N4-050431**
**Sydney, AUSTRALIA. 14th to 18th February 2005.**

**Title:** **LS on Clarification on deletion of "Subscribed Charging Characteristics"**
**Release:** **R97, R98, R99, Rel-4, Rel-5**

**Source:** **CN4 (CT4 after CN#27)**
**To:** **SA5**

**Contact Person:**
**Name:** Ulrich Wiehe
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**Attachments:** N4-050430 CR 29.002-760 rev 1 (Rel-6) on Subscribed Charging Characteristics

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**1. Overall Description:**

At their meeting #26 CN4 have approved the attached CR 760 rev1 to TS 29.002 (MAP) on Subscribed Charging Characteristics for Rel-6. This CR adds the functionality to convey the information from HLR to SGSN that a subscriber's Subscribed Charging Characteristics have been removed from the HLR so that the SGSN can apply its local default value.

During the discussion it was asked whether the error of not being able to inform the SGSN about the removal of the Subscribed Charging Characteristics results in a frequent and serious mis-operation and therefore justifies corrective CRs to the now frozen releases of Rel-5, Rel-4, R99, R98, and R97.

**2. Actions:**

**To SA5**

**ACTION:** CN4 kindly ask SA5 to provide guidance for which 3GPP releases prior to Rel-6 this functionality should be specified.

**3. Date of Next CT4 Meetings:**

| | | |
|---|---|---|
| CT4#27 | 25th - 29th April 2005 | Cancun, MEXICO |
| CT4#28 | 29th Aug – 03rd Sep 2005 | London, UK |

**3GPP TSG-CN WG4 Meeting #26** **N4-050450**
**Sydney, AUSTRALIA. 14th to 18th February 2005.**

**Title:** **LS on Mandating functionality in WLAN ANs**
**Response to:**
**Release:** **Release 6**
**Work Item:** **WLAN**

**Source:** **CN4 (CT4 after CN#27 March 2005)**
**To:** **SA1, SA2, SA5**
**Cc:**

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**Attachments:**

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**1. Overall Description:**

At CN4 #26, it has been discussed how to produce the technical realization of the stage 3 to fulfil the stage 2 technical requirements (and consequently the stage 1 service requirements) while at the same time accommodating WLAN ANs currently deployed. CN4 has identified some issues.

According to the TS 23.234 Section 5.1.1 that describes the possible impacts on WLAN in the WLAN 3GPP interworking function the following requirement is found:

- "*Minimal impact on existing WLAN networks*"

Moreover, in the description of the Wa reference point functionality (section 6.3.1.2), defined between the WLAN AN and the 3GPP PLMN, it is stated that:

- "*When such functionality is supported by the WLAN AN, purging a user from the WLAN access for immediate service termination*"

Based on both requirements given above, CN4's understanding is the following:

- Impacts on WLAN access networks shall be minimum enough to support any legacy WLAN networks based on the IETF RFC 2865 (RADIUS) i.e. the support of the IETF **RFC 2865** over the Wa reference point is **mandatory**.
- It can not be mandated the support of the IETF RFC 3576 providing RADIUS extensions to support, amongst other capabilities, the capability to immediately disconnect a user from the WLAN AN i.e. the support of the IETF **RFC 3576** over Wa reference point is **optional**.

In such a case, as identified in the TS 23.234, RADIUS-based WLAN ANs not updated with the IETF RFC 3576 will not be able to support the immediate purging of a user from WLAN access.

CN4 kindly requests SA1, SA2 and SA5 to confirm that the current CN4 understanding is correct and aligned with the stage 2 requirements.

In particular, CN4 identifies that the above requirements have a significant impact on some functional procedures described in the Stage 2. For instance, it will not be possible to initiate the disconnection of a WLAN UE on the cancellation of the subscription or the expiration of the user's online charging account for a WLAN UE attached to a WLAN AN not updated with the IETF RFC 3576.

On the other hand, CN4 notes that the support of EAP is mandated by 3GPP within the WLAN AN and the IETF RFC 3579 (RADIUS extensions to support the transport of EAP frames over RADIUS) is therefore mandatory over the Wa reference point, although they are not natively supported by legacy RADIUS-based WLAN ANs.

Therefore it seems that in some cases functionality in the WLAN AN is being mandated by 3GPP, and other times it is being prohibited.

**2. Actions:**

**To SA1 and SA2 groups**

**ACTION:** CN4 kindly asks SA1 and SA2 groups the following:

- To confirm that the support of the IETF **RFC 3576** over Wa reference point is **optional and not mandatory**, therefore meaning that immediate purging of a user from the WLAN AN is not always possible.
- If the above is indeed optional to be supported by WLAN ANs, how does SA2 foresee that the 3GPP AAA Server/Proxy can determine whether or not the WLAN AN supports immediate purging of a user and take appropriate action? A preliminary analysis in CN4 indicates that this information could only be provided through manual configuration, as RADIUS does not provide any capability negotiation mechanism.
- To clarify in detail if and how 3GPP puts mandates on WLAN ANs, as currently there seems to be conflict.

**To SA5 group.**

**ACTION:** CN4 kindly asks SA5 to consider that it will not be possible to initiate the disconnection of a WLAN UE on the expiration of the user's online charging account for a WLAN UE attached to a WLAN AN not updated with the IETF RFC 3576:

**3. Date of Next CT4 Meetings:**

| | | |
|---|---|---|
| CT4#27 | 25th - 29th April 2005 | Cancun, MEXICO |
| CT4#28 | 29th Aug – 03rd Sep 2005 | London, UK |