Third Generation Partnership Project

MEETING REPORT v1.0.0

3GPP TSG-CN4#23

Zagreb, Croatia.
10th - 14th February, 2004

Hosted by:

EF3

CN4 Officials:

Chairman: **Peter Schmitt, Siemens.** Peter.Schmitt@gksag.de
Vice-Chairman: **Mr. Toshiyuki Tamura, NEC.** tamurato@aj.jp.nec.com
Vice-Chairman: **Mr. Peter Wild, Vodafone-D2.** peter.wild@vodafone.com
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Table of contents

1 Agenda

N4-040501 **Preliminary agenda for CN4 #23; CN4 chairman**
Discussion:
Status: **Revised to N4-040502**

N4-040502 **Detailed agenda & time plan for CN4 #23: status at document deadline; CN4 chairman**
Discussion:
Status: **Revised to N4-040503**

N4-040503 **Detailed agenda & time plan for CN4 #23: status on eve of meeting; CN4 chairman**
Discussion:
Status: **Approved**

2 Allocation of documents to agenda items

N4-040504 **Proposed allocation of documents to agenda items for CN4 #23: status at document deadline; CN4 chairman**
Discussion:
Status: **Revised to N4-040505**

N4-040505 **Proposed allocation of documents to agenda items for CN4 #23: status on eve of meeting; CN4 chairman**
Discussion:
Status: **Agreed**

N4-040506 **Proposed allocation of documents to agenda items for joint session with CN2 on CAMEL; CN2/CN4 chairman**
Discussion:
Status: **Agreed**

3 Meeting Reports

3.1 Previous meeting reports

N4-040510 **CN4#22 meeting report, Atlanta; MCC**
Discussion: **Will be raised to version 3.0.0 and placed on server**
Status: **Approved**

N4-040511 **CN4#22bis meeting report, Edinburgh; MCC**
Discussion: **Will be raised to version 3.0.0 and placed on server**
Status: **Approved**

3.2 Summary reports by chairman

N4-040507 **Summary report from CN #23 & SA #23, Maui, USA; CN4 chairman**
Discussion: **Will be raised to version 3.0.0 and placed on server**
Status: **Approved**

N4-040508 **Summary report from CN4#22bis Edinburgh, UK; CN4 chairman**

Discussion: **Will be raised to version 3.0.0 and placed on server**
Status: **Approved**

4 Input liaison statements

N4-040625 **Input LS Response on IP Flow Based Bearer Level Charging; CN2**
Discussion: Nokia proposed to postponed the document to GTP session 6.11.
Proposal was Agreed by meeting
Status: **Postponed to agenda item 6.11**

N4-040636 **Input LS on CAMEL prepay: IP version of the GGSN address; CN2**
Discussion:

CN2 would therefore like to know which format GGSN Address, i.e. IP v4 or IP v6, is placed in the S-CDR in various cases, specifically the following cases:

a) Either or both of SGSN and GGSN support IP v4 only. CN2 assumes that in this case, the S-CDR shall contain the IP v4 Address of the GGSN.
b) Both SGSN and GGSN support dual IP stack. CN2 is not certain whether the 3GPP charging specifications mandate which IP version GGSN Address shall in this case be placed in the S-CDR.
c) Either or both of SGSN and GGSN support IP v6 only.

Status: **Noted**

N4-040640 **Input LS reply to CN2 on CAMEL prepay: IP version of the GGSN address; SA5**
Discussion: This is a reply LS for N4-040636.
Status: **Noted**

N4-040626 **Input LS on RIM routing addressing between GERAN and UTRAN; GERAN WG2**
Actions to CN4:

TSG GERAN WG2 would like to ask TSG RAN WG3 and TSG CN WG4 to comment on the addressing principles considered to exchange RAN information between GERAN and UTRAN nodes, on the suggestion to use the "Global RNC-Id" to address RIM PDUs towards UTRAN, and on the proposed information element coding.

Discussion:
Status: **Noted (Will be submit again to CN4#24)**

N4-040628 **Input LS on 'Generic Routing of RIM/NACC Information'; RAN3**
Actions to CN4:

To explain if/how they envisage to reuse the same RIM transparent routing principle.

Discussion: Nokia: Some more time is needed to investigate the topic on CN4 point of view. (N4-040626 and N4-040628).
Status: **Noted (Will be submit again to CN4#24)**

N4-040638 **Input LS on 'Encoding of Global RNC-ID and GERAN Cell Identifier'; RAN3**
Discussion: NEC: Does this LS has any impact on 23.003 Global RNC-ID?
Siemens: There are no impact. TS 23.003 defines format, not coding.
Status: **Noted**

N4-040629 **Input LS on Harmonisation of AMR Configurations; SA2**
Discussion: See N4-040631.
Status: **Noted**

N4-040631 **Input LS; Reply LS on Harmonisation of AMR Configurations; SA4**
Discussion: Reply LS drafted by Ericsson; N4-040664
Status: **Noted**

N4-040664 **Reply LS on Harmonisation of AMR Configurations; SA4**
Discussion:
Status: **Approved**

N4-040648 **Input LS; Reply LS on Harmonisation of AMR Configurations; GERAN**
Discussion: See N4-040631.
Status: **Noted**

N4-040630 **Input LS; LS reply "LS on CS and PS CN Domains separation and Access Control in UTRAN"; SA2**
Discussion:
Status: **Noted**

N4-040627 **Input LS; LS to 3GPP T2 on issue for checking an SMS interworking agreement with mobile number portability ; GSMA IREG**
Discussion:
DoCoMo: The document is already discussed in T-plenary. No reply from CN4 is needed. What is the difference between SMS roaming agreement and SMS interworking agreement?
Vodafone: Roaming agreement can be used when subscriber is in visitors network, but interworking is between operators e.g. in home country.
Status: **Noted**

N4-040632 **Input LS; 3gppnetwork.org domain name management; GSMA IREG**
Discussion: Vodafone proposed to add annex in TS 23.003.
The proposal was agreed by meeting
Vodafone will draft CRs on this meeting or CN4#24.
Status: **Noted**

N4-040633 **Input LS; 2G/3G subscriber distinction and roaming restriction; GSMA IREG**
Discussion:
Ericsson: SA has already responded this LS (they didn't send reply copy to CN4) and the main issue of reply is that if this is a new feature.
Meeting opinion was that requirements is needed in SA2 specifications before CN4 can update the specifications.
Status: **Noted**

N4-040634 **Input LS; Response to LS on WLAN UE identity format and resolution; GSMA IREG**
Discussion:
Status: **Postponed to 6.1**

N4-040637 **Input LS; LS on Collaboration between 3GPP and Liberty Alliance Project; CN**
Discussion:
Status: **Postponed to 6.2**

N4-040639 **Input LS; LS on the nature of LCS; SA2**
Discussion: LS will be drafted N4-040665
Status: **Noted**

N4-040665 **Reply LS on the nature of LCS; SA2**
Discussion:
Status: **Revised to N4-040746**

N4-040746 **Reply LS on the nature of LCS; SA2**
Discussion:
Status: **Approved**

N4-040635 **Input LS; Reply to the LS on the nature of LCS; CN1**
Discussion:
Chairman: Do we have any effect on CN4 specification which are mention on these definition; N4-040639, N4-040635 and N4-040650?
Do we have any effects which with be covered on MAP specifications or can we see this is an independent issue?
Vodafone will draft reply LS;
Status: **Noted**

N4-040650 **Input LS; Response on the nature of LCS; GERAN**
Discussion:
Status: **Noted**

N4-040641 **Input LS; Response LS on the use of MSISDN in WLAN; SA5**
Discussion:
Status: **Postponed to 6.1**

N4-040642 **Input LS; LS Reply to Request for close cooperation on future NGN Standardisation; SA**
Discussion:
Status: **Noted**

N4-040643 **Input LS; LS on Collaboration between 3GPP and Liberty Alliance Project; SA**
Discussion:
Status: **Postponed to 6.2**

N4-040649 **Input LS; LS on issues related to SNA Access Information; GERAN WG2**
Discussion:
Nokia: There are no effect on CN4 specification. These parameters are sent transparently.
Status: **Noted**

N4-040651 **Input LS; Reply LS to Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0; SA2**
Discussion:
Status: **Postponed to 6.1**

N4-040652 **Input LS; LS on Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0; SA2**
Discussion:
Status: **Postponed to 6.1**

N4-040653 **Input LS; LS on Transfer of T2 GUP TS's; T2**
Discussion:
Status: **Postponed to 6.2**

N4-040661 **Input LS; LS on Evaluation of MOCN redirect alternatives ; SA2**
Discussion:
Status: **Postponed to 6.18.1**

5 Work item management

NP-040733 **Revision of WLAN Interworking – stage 3 definition of WLAN – 3GPP interworking ; CN1**
Discussion: CN4 meeting couldn't agree if Wg- and Wp-interface should be handled under CN3 or CN4 expertise. Ideal situation would be if the work could be done in CN4
Status: **Revised to N4-040742**

NP-040742 **Revision of WLAN Interworking – stage 3 definition of WLAN – 3GPP interworking ; CN1, CN4**
Discussion:
Status: **Revised to N4-040750**

N4-040750 **Revision of WLAN Interworking – stage 3 definition of WLAN – 3GPP interworking ; CN1, CN3, CN4**
Discussion: Will be send to plenary for information and approval
Status: **Approved**

6 Release 6

6.1 Wireless LAN interworking

N4-040651 **Input LS; Reply LS to Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0; SA2**
Discussion:
Status: **Noted**

N4-040652 **Input LS; LS on Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0; SA2**
Discussion: Reply LS is N4-040727
Status: **Noted**

N4-040727 **LS on Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0; Nokia**
Discussion: Reply LS is N4-040727 on feedback to Wi-Fi alliance
Status: **Revised to N4-040751**

N4-040751 **LS on Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0; Nokia**
Discussion:
Status: **Approved**

N4-040641 **Input LS; Response LS on the use of MSISDN in WLAN; SA5**

Discussion:
Status: **Noted**

N4-040716 **Reply LS on WLAN Charging Identifiers; SA5**
Discussion:
Status: **Noted**

N4-040634 **Input LS; Response to LS on WLAN UE identity format and resolution; GSMA IREG**
Discussion:
Status: **Noted**

N4-040560 **General description of the Wm reference point; Nokia**
Discussion:
Status: **Revised to N4-040644**

N4-040644 **General description of the Wm reference point; Nokia**
Discussion: Nokia: The solutions being proposed is based on NASREQ signalling.
Ericsson don't believe NASREQ based signalling can be decided to use in this interface. NASRAQ is maybe not suitable to transfer AAA. We don't have any Stage 2 input as we had for Wa, Wd or Wx where all the functionalities were already described in 23.234 and we only had to find the most suitable protocols and adapt them.
Ericsson supports that EAP should be used for authentication, according to SA3 TS 33.234.
Lucent proposed to add editor's note: " It is agreed to use DIAMETER based protocol; It is further study if Wm interface is based on Gx/Gq procedures (which in turn are based on NASRAQ) or any other DIAMETER protocol."
The first editor's note will be deleted.
Discussion will continue on email explorer.
Status: **Revised to N4-040728**

N4-040728 **General description of the Wm reference point; Nokia**
Discussion:
Status: **Agreed**

N4-040561 **Use of PPR/PPA messaging on Wm; Nokia**
Discussion:
Status: **Withdrawn**

N4-040562 **Use of SAR/SAA messaging on Wm; Nokia**
Discussion:
Status: **Withdrawn**

N4-040563 **Use of RTR/RTA on Wm; Nokia**
Discussion:
Status: **Withdrawn**

N4-040564 **New Diameter application for Wx; Nokia**
Discussion: Ericsson: Vendor identifier should be changed as application identifier.

Status: **Revised to N4-040730**

N4-040730 **New Diameter application for Wx; Nokia**
Discussion:

Status: **Agreed**

N4-040565 **General discussion of Wg reference point; Nokia**
Discussion:
Status: **Revised to N4-040688**

N4-040688 **General discussion of Wg reference point; Nokia**
Discussion: Vodafone: Wg is external interface and should be handled in TSG WG CN3.
CN4 decided that Wg and Wp-interfaces should be under CN4 control.
Status: **Agreed**

N4-040566 **Addition of MSISDN AVP to Wa/Wd reference point; Nokia**
Discussion:
Status: **Revised to N4-040689**

N4-040689 **Addition of MSISDN AVP to Wa/Wd reference point; Nokia**
Discussion: SA1 has currently not decided on the usage of MSISDN or an other kind of subscription ID.
Ericsson proposed to postpone this issue on future meetings.
Proposal was agreed by meeting.
Status: **Postponed to CN4#23bis**

N4-040609 **Modifications to Wa; Wd Interfaces description; Samsung**
Discussion: Routing enforcement in the WLAN AN shall ensure that the packets sent between a PDG and WLAN UE are routed to the right entity in the interworking VPLMN (roaming case) or HPLMN (no roaming case). It is agreed upon in last SA2 39 meeting in China (S2-041541), that routing enforcement functionality can be downloaded by the AAA server (in case of HPLMN) or AAA proxy (in case of VPLMN) to the WLAN AN serving the WLAN UE. This information has to be carried over the Wa interface between AAA server/proxy and the WLAN AN. So Wa and Wd interface has to be modified to reflect the above discussion.
Policy enforcement functionality is implemented at WAG, to allow only authorize the packets to/from the WLAN AN. This policy enforcement rules also can be downloaded by the AAA server(in case of HPLMN) proxy or via the AAA proxy (in case of VPLMN) to the WAG. So Wa and Wd interface has to be modified to pass the policy enforcement information between AAA server and AAA proxy. The below changes are proposed to reflect this discussion.
Nokia: More time is needed to study SA2 contribution (The document is related to S2-041541)
Ericsson would like to postponed the decision on this topic till next meeting.
Status: **Postponed to CN4#23bis**

N4-040610 **Addition of Wg interface to the existing procedures; Samsung**
Discussion:
Status: **Withdrawn**

N4-040611 **Modification of the scope; Samsung**
Discussion:
Status: **Withdrawn**

N4-040624 **Handling of Information Element marked as (M); (C) or (O); France Télécom**
Discussion:
Status: **Revised to N4-040668**

N4-040668 **Handling of Information Element marked as (M); (C) or (O); France Télécom**
Discussion:
Status: **Revised to N4-040731**

N4-040731 **Handling of Information Element marked as (M); (C) or (O); France Télécom**
Discussion:
Status: **Postponed to CN4#23bis**

N4-040645 **AAA/AAR usage on the Wm interface; Nokia**
Discussion:
Status: **Postponed to CN4#23bis**

N4-040646 **STR/STA usage on the Wm interface; Nokia**
Discussion:
Status: **Postponed to CN4#23bis**

N4-040647 **ASR/ASA usage on the Wm interface; Nokia**
Discussion:
Status: **Postponed to CN4#23bis**

NP-040683 **Either RADIUS or DIAMETER Wd reference point, China Mobil, Huawei**
Discussion: Nokia: The contribution violates stage 2 which says that we should only choose a one protocol.
Huawei: Does someone sees needed to add also RADIUS in Wd reference point?
CN4 meeting agreed that the question should be raised in SA2 by Huawei.
Status: **Noted**

NP-040684 **Analysis on RADIUS fulfilling the requirement for 3GPP WAN interworking system, China Mobil, Huawei**
Discussion:
Status: **Withdrawn**

NP-040745 **Updated TS 29234 v1.4.0, Nokia**
Discussion:
Status: **Will be sent out by Email**

6.2 GUP

N4-040653 **Input LS; LS on Transfer of T2 GUP TS's; T2**
Discussion:
CN4 meeting propose that TS 23.241 should be under CN4's control because it's similar to the CN4 TS 29.240 stage 3 specification. CN4 recommends that CN4 shall take over proposed specifications.
Reply LS to T2; N4-040699
Status: **Noted**

N4-040699 **Reply LS on Transfer of T2 GUP TS's; Ericsson**
Discussion: To: T, T2, SA2 cc: CN
Status: **Approved**

N4-040553 **Adding an annex with GUP Component Language using the IMS example; Lucent Technologies**
Discussion: Nokia don't see any need for this example.
Lucent: After CN4#22bis meeting we understood that this example is needed. This in only an annex for information which clarifies how the GUP Component Language (GCL) can be used to define and reference GUP components.
Nokia and Ericsson don't believe this is needed in specification. It doesn't bring any new information.
Orange support the Lucent opinion to add this in TS 29.240.
Vodafone would like to see this in specification after redrafting this in terminology used in 3GPP.
After discussion Lucent decided to withdrawn the document.
Status: **Withdrawn**

N4-040554 **Redirect using GCL; Lucent Technologies**
Discussion: This contribution is a revision of contribution N4-040412 presented in Edinburgh and proposes Redirect feature enhancements to the GUP Rg reference point procedure definitions. The redirection procedure uses the GUP Component Language to identify components.
Nokia and Ericsson: This document introduces 2 new enhancements which are not inline with stage 2.
Status: **Postponed**

N4-040555 **Provisioning for physical components; Lucent Technologies**
Discussion: One role of the GUP server is to hide the physical location of GUP components from client applications. For this purpose, the GUP server needs to keep a mapping between components and their physical location(s). The entity responsible for defining these mappings is beyond the scope of this specification, but it is important to have a procedure by which the GUP server can be informed of these mappings.
Lucent propose to add 3 new procedure to the Rg interface:
- AddMapping
- ListMapping
- DeleteMapping

A mapping is defined as pair that consists of a GUP defined using a GCL expression and the address of data repository defined as a RAFAddress.
Lucent: This is already in stage 2 scope and CR will be present in SA2 meeting 17.-21. May 2004.
Nokia has a contribution on same issue (N4-040569) but the approach is different.
Status: **Postponed**

N4-040567 **Clarification of the Main concept; Nokia**
Discussion: Nokia: Suggest the following piece of text in the clause 4 just before the clause 4.1:

The framework, procedures, SOAP binding and security solutions of GUP are based on the Liberty Alliance Project specifications [13], [14] and [15]. The Generic User Profile data carried by the procedures is structured as GUP Components that may contain other GUP Components and/or Data Element Groups and/or data elements. See clause 5 in 3GPP TS 23.240 [1] for more detailed description of the information model. GUP defines

rules and guidelines about how the Generic User Profile and individual GUP Components are to be defined by XML Schema. Furthermore it is specified how items of data may be referenced in the procedures.

[13] "Liberty ID-WSF Data Services Template Specification", Liberty Alliance Project. http://www.projectliberty.org/specs/liberty-idwsf-dst-v1.0.pdf

[14] "Liberty ID-WSF SOAP Binding Specification", Liberty Alliance Project. http://www.projectliberty.org/specs/liberty-idwsf-soap-binding-v1.0.pdf

[15] "Liberty ID-WSF Security Mechanisms Specification", Liberty Alliance Project. http://www.projectliberty.org/specs/liberty-idwsf-security-mechanisms-v1.0.pdf

Lucent doesn't see any benefit to introduce a document in TS 29.240. It doesn't give any extra clarification which would be useful.
Ericsson believe that to refer to Liberty Alliance documents is enough.
The proposed changes are not inline with 3GPP drafting rules. The changes like this should be introduced in scope section.

Status: **Withdrawn**

N4-040568 Clarification of the GUP working assumptions; Nokia

Discussion: Nokia propose the following working assumptions:

- GCL as a restricted XPath language is used for data referencing
- Generic User Profile schema is constructed of GUP Component schemas that are imported to it as specified in TS 23.241.
- W3C XML Schema is the recommended choice for GUP data definition. If others are proposed, a thorough analysis are required to show how it can co-exist with GUP data defined by the XML Schema.

Ericsson: We need to agree this document going thru by point to point .
Lucent: ***Lucent would like to add the following text in the last section.***
"GCL as a restricted XPath language is used for data referencing for the purpose of physical storage, access control, billing and other purposed not yet envisioned."

> ***Nokia wanted to add this offline comment in meeting report after GUP discussion*:** Currently there is not necessarily requirements for the above mentioned purposes. Although we agree that the subset of XPath will be used to address all kinds of GUP Components, including those which do not include actual GUP data, but some supporting data for miscellaneous purposes.

The document was agreed in principle including Lucent addition above.

Status: **Agreed in principle**

N4-040569 Physical storage location; Nokia

Discussion: Instead of developing specific GUP Component schema solutions for the storage location information, Nokia kindly suggest as a working assumption that the storage location would be passed by a new optional parameter in Create and List (response) procedures if such requirement should be decided by SA2. This would be a simple but sufficient solution.
Nokia: Thee will be a Nokia's contribution in SA2 meeting which introduce requirements for this discussion paper.
Vodafone would like to postpone decision until SA2 has made the decision on this topic.

Status: **Postponed**

N4-040570 Open issues in 29.240; Nokia

Discussion: The following issues were identified to be still open in 3GPP TS 29.240 in CN4#22bis meeting in Edinburgh:

- usage of W3C XML schema in profile/GUP Component definition
- bandwidth saving and performance solution, could be the compression method provided by ITU converting XML schema to ASN.1
- character set(s) supported by XML
- detailed security solution(s)

Lucent: Physical storage, access control and billing should be added in the list.
Lucent: How the referred Liberty alliance documents are used should be also added in the list.
Nokia delegate will send the revision of the open issue document for CN4 email explorer for review.

Status: **Noted**

N4-040577 **Access Control Provisioning; Lucent Technologies**

Discussion: One role of the GUP server is to enforce access control for the access to GUP components. Based on access control, the GUP server will restrict access to components from client application.
For this purpose, the GUP server needs to keep a mapping between components and the access control rules that are relevant to them.
The entity responsible for defining these rules is beyond the scope of this specification, but it is important to have a procedure by which these rules can be managed.
Lucent propose to add 3 new procedure to the Rg interface

- AddAccessControlRule
- ListAccessControlRule
- DeleteAccessControlRule

The exact details of what an access control rule looks like are left for further study.
Nokia doesn't believe there are requirements for this in stage 2. The requirements have to be presented in SA2 before this can be agreed.
Nokia and Ericsson: We would like to keep this interface as simple as possible. The contribution was presented in CN4#22bis (N4-040411).
Lucent believes stage 2 in access control is not crystal clear and Lucent wants to challenge it.
Chairman proposed Lucent will try to convince SA2 in their next meeting about the proposed approach provided in this discussion paper.

Status: **Postponed**

N4-040605 **Security for GUP; Ericsson**

Discussion: A document was withdrawn before discussion.

Status: **Withdrawn**

N4-040606 **Error Handling for GUP; Ericsson**

Discussion: A document was withdrawn before discussion.

Status: **Withdrawn**

N4-040637 **Input LS; LS on Collaboration between 3GPP and Liberty Alliance Project; CN**

Discussion: A document was withdrawn before discussion.

Status: **Noted**

N4-040643 **Input LS; LS on Collaboration between 3GPP and Liberty Alliance Project; SA**

Discussion:

Status: **Noted**

N4-040542 **DISC; Way forward agreed on Liberty Alliance collaboration; LAP**

coordinator from the 3GPP

Discussion:

List of the documents CN4 needs from Liberty alliance have to be provided to CN chairman.

- So far all the Liberty alliance documents used in 3GPP are listed in 3GPP TS 29.240 reference chapter.
- CN4 delegates need access to Liberty alliance documentation. Version 2 will be available at the end of May.
- Nokia: DSD - Data Services Template should be also available for delegates.

If it the documents are not available before June 15th, CN chairman will inform CN4 delegates on CN4 email explorer.

CN4 meeting agreed that there are no need to invite Liberty alliance delegates in CN4 meeting in near future.

Ericsson proposed GUP bis meeting before CN4#24.

Lucent would like to see opinion from other companies than Nokia and Lucent on GUP issue, otherwise development of GUP will be endless progress and no #bis meeting is needed.

Orange and Vodafone would like wait until SA2 has made some progress on GUP issues before #bis meeting is needed.

Status: **Noted**

N4-040722 **Output LS; Provisioning of metadata (physical storage, access control, etc.): new procedures vs special purpose metadata components.; Lucent**

Discussion: Ericsson and Nokia sees this LS is subjective and doesn't give real picture of Managing metadata.

Status: **Withdrawn**

N4-040743 **Output LS; Managing of Metadata: New Procedures vs. Metadata GUP Components; Nokia, Ericsson**

Discussion: Orange believes this sentence is objective and not necessary true: "This approach is in line with the stage 2 document which keeps the interfaces generic."

Status: **Revised to N4-040747**

N4-040747 **Output LS; Managing of Metadata: New Procedures vs. Metadata GUP Components; Nokia, Ericsson**

Discussion:

Status: **Approved**

6.3 Presence

6.4.1 HSS – CSCF (Cx) & SLF - CSCF (Dx) interfaces

6.4.2 HSS – SIP AS (Sh) interface

N4-040663 **CR 29.328 085 Rel-6; Mapping to Diameter AVP for Requested Identity Set; France Telecom**

Discussion:

Status: **Revised to N4-040715**

N4-040715 **CR 29.328 085 rev1 Rel-6; Mapping to Diameter AVP for Requested Identity Set; France Telecom**

Discussion:
Status: **Agreed**

6.5 Diameter coordination

N4-040614 **DISC 29.230 - Rel-6; TS 29.230: WLAN TS 29.234 references; Ericsson**
Discussion: Ericsson: The contribution should be updated according to Nokia contribution N4-040702.
CN4 meeting agreed AVP codes should be include this specification after specification is approved and under CR control.
The informative annex will be enhanced in this issue.
Status: **Postponed**

N4-040702 **TS 29.230 Pre allocation of ranges of AVP codes and result codes; Nokia**
Discussion: Nokia would like to see the specification which are under CR control defined in TS 29.230.
Ericsson: We should only reserve range when TSG WG is asking it.
Meeting agree this document can be incorporated with TS 29.230.
Status: **Agreed**

N4-040708 **Input LS; Reply LS on Assignment of the diameter codes and identifiers; CN3**
Discussion: CN3 would like to kindly ask CN4 to allocate for the Rel-6 Gq interface purposes, the following:
A new Application identifier (to be requested from IANA) to identify the Rel-6 Gq interface application;
The request is made by MCC support
- A range of 100 3GPP specific AVPs; and
- A range of 20 3GPP specific Experimental-Result-Codes of type Permanent failure (5xxx).

Status: **Noted**

N4-040703 **LS out; LS to CN3 on assignment of Diameter codes and identifiers; Nokia**
Discussion: Siemens: We should add the latest draft of TS 29.230 to LS and ask CN3 to inform us about details on the used AVP codes when they are stable.
Status: **Revised to N4-040725**

N4-040725 **LS out; LS to CN3 on assignment of Diameter codes and identifiers; Nokia**
Discussion: Action section have to be added
Status: **Approved**

N4-040726 **TS 29.230 v0.4.0; Nokia**
Discussion: CN4 decided to send specification to CN#24 for information and approval.
If TS is approved by plenary, the new version will be 6.0.0 and it will be under CR control in next CN4 meeting.
Status: **Approved**

6.6 Diameter version control

N4-040589 **CR 29.229 034 rev2 Rel-6; Application version control; Nokia**
Discussion: Ericsson: Vendor-Specific_Application-Id is enough. Why do we need Auth-Application-Id and Acct-Application-Id?

These AVPs are needed to enable the sender to advertise support for the Diameter applications specified in the IETF.
Lucent: In second paragraph of 5.6 “may” should be replaced by “shall”.
Ericsson: The connection have to renewed if the negotiated connection needs to be upgraded or downgraded.
In chapter 7.1. reference is removed.
Siemens don’t see dependences between 3GPP releases and version control AVPs.
Siemens. We should not raise the version in every release, but only when we need to.
Lucent, Nokia, Vodafone and HP support this solution.
Ericsson, Siemens and Nokia will draft the rules for version upgrade.
Nokia: We had a discussion paper on this topic at CN4#21 and principle was agreed.
CN chairman: Application Id
Lucent support Nokia’s CR because it’s more IETF based.
France Telecom: IETF doesn’t care how the messages are handled in functional level.
None of the solutions has a real majority:
- 5 prefer the application ID only solution
- 4 support in addition the version AVP

Status: **Revised to N4-040672**

N4-040672 **CR 29.229 034 rev3 Rel-6; Application version control; Nokia**
Discussion: E
Status: **Postponed**

N4-040590 **CR 29.229 033 rev2 Rel-5; Application version control; Nokia**
Discussion:
Status: **Revised to N4-040673**

N4-040673 **CR 29.229 033 rev2 Rel-5; Application version control; Nokia**
Discussion:
Status: **Postponed**

N4-040591 **CR 29.329 033 rev2 Rel-6; Application version control; Nokia**
Discussion:
Status: **Postponed**

N4-040596 **DISC; XML and XML schema version control in the Diameter applications; Nokia**
Discussion: Lucent and Vodafone support the proposal.
Status: **Principle Agreed**

N4-040597 **CR 29.228 106 Rel-6; XML and XML schema version control in the Diameter applications; Nokia**
Discussion: Added sentence needs improvement.
Deleted sentence will be returned.
Status: **Revised to N4-040675**

N4-040675 **CR 29.228 106 rev1 Rel-6; XML and XML schema version control in the Diameter applications; Nokia**
Discussion:
Status: **Postponed**

N4-040598 CR 29.328 087 Rel-6; XML and XML schema version control in the Diameter applications; Nokia
Discussion:
Status: **Revised to N4-040676**

N4-040676 CR 29.328 087 rev1 Rel-6; XML and XML schema version control in the Diameter applications; Nokia
Discussion:
Status: **Postponed**

N4-040604 CR 29.229 046 Rel-6; Partial implementations; Nokia
Discussion:
Status: **Postponed**

N4-040607 DISC; Partial Implementation of enhancements to 3GPP Diameter Applications; Siemens
Discussion:

For the purpose of discussion let us focus on the 3GPP Cx Diameter Application(s), and let us assume that a new feature (feature X) is introduced in Rel-6 which requires the allocation of a new application-Id (3GPP-Cx-Rel6). It is our understanding that it is up to vendors to decide whether they want to implement feature X or not. Note that vendors normally do not implement features simply because they are standardized, but because they anticipate a positive business case. Nodes from vendors not supporting feature X continue advertising application 3GPP-Cx-Rel5 whereas nodes from vendors supporting feature X advertise 3GPP-Cx-Rel5 and 3GPP-Cx-Rel6.
Now let us assume that in Rel-7 a new feature (featureY) is introduced which again requires a new application-Id (3GPP-Cx-Rel7). Let us assume that feature Y is totally independent from feature X . Again it is up to vendors to decide whether or not they want to implement feature Y in their nodes. Nodes from vendors not supporting feature Y will advertise <3GPP-Cx-Rel5> or <3GPP-Cx-Rel5 and 3GPP-Cx-Rel6> depending on whether or not feature X is supported. Nodes from vendors supporting feature Y and feature X will advertise 3GPP-Cx-Rel5, 3GPP-Cx-Rel6, and 3GPP-Cx-Rel7. At this point the question is whether it is acceptable that the 3GPP standard prohibits vendors to support feature Y without supporting feature X. In other words: When a vendors is willing to support featureY, is he forced to also implement the totally independent feature X? We hope the obvious answer is "no".
If the answer is "no", the next question is: Shall a node supporting feature Y but not supporting feature X advertise the application-Id 3GPP-Cx-Rel7? If it does not advertise 3GPP-Cx-Rel7 then feature Y will not work. If it does, a mechanism is needed to indicate that only a part of Rel7 (i.e. feature Y but not feature X) is supported.
We face the same problem when features X and Y are both introduced within the same 3GPP-Release.
Siemens believe that the 3GPP standard should not unnecessarily introduce dependencies between independent features and therefore urge CN4 to take the issue into account when discussing Diameter Version Control.

Nokia, Ericsson, France Telecom and Vodafone do not support partial implementation. Optionality of AVPs is enough to handle optionality and functionality.

Conclusion: **Noted**

Status:

N4-040612 CR 29.228 107 Rel-6; Diameter-based application version control; Ericsson
Discussion:

Siemens: The first time is misleading in this CR. The AVP should always be present when the sending node doesn't know the supported version of the receiving entity.
Siemens, France Telecom, Ericsson, Ericsson and Fujitsu support this solution.
Status: **Postponed**

N4-040613 CR 29.229 047 Rel-6; Diameter-based application version control; Ericsson
Discussion:

Ericsson: If receiving entity doesn't known the version of AVP, then there will be a fallback to previous release.
Vodafone: A supported version should be known in case of fallback.
France Telecom: The version of AVP should be always be send on the command.
Meeting agreed with France Telecom's proposal.
Nokia didn't see reason for 2 level of version control proposed in Ericsson's CR.
Status: **Postponed**

N4-040655 CR 29.229 051 Rel-5; Forward Compatibility; Siemens
Discussion: Lucent: If we need this kind of information it's better to have it in normative Annex.

Status: **Revised to N4-040677**

N4-040677 CR 29.229 051 rev1 Rel-5; Forward Compatibility; Siemens
Discussion: Nokia: In offline discussion was decided that CRs are postponed
To next meeting. Further study is needed to be carefully analysed all 3 possible solution.
Status: **Postponed**

N4-040656 CR 29.229 048 Rel-6; Forward Compatibility; Siemens
Discussion:
Status: **Withdrawn**

N4-040657 CR 29.329 038 Rel-5; Forward Compatibility; Siemens
Discussion:
Status: **Withdrawn**

N4-040658 CR 29.329 039 Forward Rel-6; Compatibility; Siemens
Discussion:
Status: **Withdrawn**

6.7 Subscriber Certificates

N4-040571 TS 29.109 - Multiple AVs downloading in Zh; Nokia
Discussion:
Status: **Agreed to add in new version of TS 29.109**

N4-040572 TS 29.109 - Terminological Changes; Nokia
Discussion: Ericsson: Why do we need empty values like Public Identity AVP or User-Name?
France Telecom: This is an optional AVP which is not needed.
Nokia: If we use same command codes as in Cx and Dx we believe it may cause some problems, but if it's acceptable for other vendors and it doesn't cause any problems in Cx/Dx-interface, empty values can be removed.

Vodafone: Clarification of SA3 is needed what is the usage of GAA application type, what are the requirements behind this information.
LS to SA3 on usage of GAA application type; N4-040669.
CN4 meeting decided that "GAA Application ID" is renamed as "GAA Application Type" until we get more information from SA3.

Status: **Agreed to add in new version of TS 29.109**

N4-040669 **LS on Requirement for presence of the GAA-Application-Type AVP ; Vodafone**
Discussion:
Status: **Revised to N4-040748**

N4-040748 **LS on Requirement for presence of the GAA-Application-Type AVP ; Vodafone**
Discussion:
Status: **Approved**

N4-040670 **TS 29.109 v0.3.0; Nokia**
Discussion: TS will be sent to CN#24 for information.
Status: **Approved**

6.8 Subscriber and Equipment Trace

N4-040695 **LS reply on Trace parameter over Iu onterface; SA5**
Discussion:
Status: **Noted**

N4-040573 **CR 23.205 045 Rel-6; Addition of the Trace package; Nokia**
Discussion:
Status: **Revised to N4-040701**

N4-040701 **CR 23.205 045 rev1 Rel-6; Addition of the Trace package; Nokia**
Discussion: Ericsson would like to see also message flow. The changes proposed
By Nokia are not enough to cover requirements. The message flow should show the trace functionality.
Nokia: Only signalling of trace capability is required.
Status: **Postponed to CN4#24**

N4-040574 **CR 29.232 060 rev1 Rel-6; Addition of the Trace package; Nokia**
Discussion: Ericsson: Are these packages more for a context or a termination?
Nokia: These are more for termination
Ericsson: Relating to TS32.422 why do me need to tell MGW this if MSC already has a knowledge.
Ericsson: It difficult to understand in section 15.2.1.1 where the requirements for Trace Activity Control are coming from. We do not have enough details in stage 2 TS 23.205 where these packages should be described.
Meeting agreed to postponed to stage 3 decision until stage 2 has agreed.
Discussion will continue on CN4 email explorer.
Status: **Postponed to CN4#24**

N4-040575 **CR 29.060 470 rev1 Rel-6; Additional Trace information; Nokia**
Discussion: Lucent: Reference regarding encoding needs to be update.
Vodafone: TS 23.060 need s to be check if update is needed

Status: **Postponed to CN4#24**

N4-040602 **CR 29.002 738 Rel-6; Rel-6 trace management additions to trace activation and deactivation procedures; Nokia**
Discussion:
Status: **Postponed to CN4#24**

6.9 Mn interface protocol

N4-040654 **DISC; TS 29.332; Mn interface procedures; Nokia**
Discussion:
Status: **Revised to N4-040700**

N4-040700 **DISC; TS 29.332; Mn interface procedures; Nokia**
Discussion: **Will be incorporated with new draft of 29.332.**
Status: **Agreed**

N4-040744 **TS 29.332 v0.5.0; Siemens**
Discussion: TS will be sent to CN#24 for information.
Open issues will be sent out on CN4 email explorer for comments by editor of the specification. TS will be sent to CN#24 for information if there are no objection on CN4 explorer.
Status: **Approved**

6.10 Mp interface protocol

6.11 GPRS

N4-040516 **CR 29.060 494 REL6; Clarification on coding of Target Identification IE; NEC**
Discussion: Ericsson and NTT DoCoMo support this solution.
Alcatel has a counter proposal N4-040586.
What kind of encoding is used in this proposal? Alcatel proposal is using RANAP encoding.
Status: **Rejected**

N4-040586 **CR 29.060 498 Rel-6; Clarification of the Target Identification IE; Alcatel**
Discussion: Lucent and Siemens are the favour of this proposal.
NEC has a counter proposal N4-040516.
Ericsson and Lucent: In figure “Target identification” should be changed as”Target ID”.
Alcatel: RAC is always included in Target ID when packet switch are used.
Status: **Revised to N4-040704**

N4-040704 **CR 29.060 498 rev1 Rel-6; Clarification of the Target Identification IE; Alcatel**
Discussion:
Status: **Agreed without presentation**

N4-040625 **Input LS Response on IP Flow Based Bearer Level Charging; CN2**
Discussion:
Status: **Noted**

N4-040550 **CR 29.060 478 rev1 Rel-6; Provision of S-CDR information to the GGSN;**

Vodafone

Discussion:

Status: **Revised to N4-040686**

N4-040686 **CR 29.060 478 rev2 Rel-6; Provision of S-CDR information to the GGSN; Vodafone**

Discussion: NEC is concerned charging information in roaming cases.
Vodafone believes this is fulfilled in stage 2.
MS time zone should be referred to TS 24.008.
Lucent proposed to included the changes in a one TLV to avoid reservation of new TLVs.
Ericsson and NEC support current Vodafone proposal.

Status: **Revised to N4-040707**

N4-040707 **CR 29.060 478 rev3 Rel-6; Provision of S-CDR information to the GGSN; Vodafone**

Discussion:

Status: **Revised to N4-040754**

N4-040754 **CR 29.060 478 rev4 Rel-6; Provision of S-CDR information to the GGSN; Vodafone**

Discussion: The final version is placed on the server

Status: **Agreed on email**

6.12 MBMS

N4-040524 **Inconsistency in MBMS Deactivation Procedure between TS 23.246 and TS 29.060; NTT DoCoMo**

Discussion: Vodafone: Clarification are need about new procedures in LS.
The old diagram should be added and in new diagram should be shown all the changes.
Tdoc for revised LS is N4-040709.

Status: **Agreed**

N4-040709 **LS on change in MBMS Multicast Service Deactivation Procedure; NTT DoCoMo**

Discussion:

Status: **Revised to N4-040749**

N4-040749 **LS on change in MBMS Multicast Service Deactivation Procedure; NTT DoCoMo**

Discussion:

Status: **Approved**

N4-040546 **CR 29.060 495 REL-; Addition of BM-SC initiated De-registration; Fujitsu**

Discussion: Vodafone: Information section have to be removed from specification.
Vodafone: “In case” have to be replaced with “when” in sections 7.5A.2.3 and 7.5A.2.4.

Status: **Revised to N4-040710**

N4-040710 **CR 29.060 495 rev1 REL-; Addition of BM-SC initiated De-registration; Fujitsu**

Discussion: Vodafone: Information section have to be removed from specification.

Vodafone: “In case” have to be replaced with “when” in sections 7.5A.2.3 and 7.5A.2.4.

Status: **Agreed without presentation**

N4-040547 **CR 29.060 486 rev1 REL-6; Support of Inter-SGSN RA update for MBMS; Fujitsu**

Discussion: NEC: MBMS UE Context should be Optional.

Nokia: In protocol level this have to be optional, but in functional level conditional.

Status: **Revised to N4-040711**

N4-040711 **CR 29.060 486 rev2 REL-6; Support of Inter-SGSN RA update for MBMS; Fujitsu**

Discussion:

Status: **Agreed**

N4-040548 **CR 29.060 496 REL-6; Addition of TMGI; Fujitsu**

Discussion: Nokia: Is optional or mandatory to TMGI to allocate the BM-SC?

Fujitsu: It is mandatory.

Nokia: TMGI should be changed Optional.

NEC and Vodafone: TMGI should be conditional in response and mandatory in request.

Status: **Revised to N4-040712**

N4-040712 **CR 29.060 496 rev1 REL-6; Addition of TMGI; Fujitsu**

Discussion:

Status: **Agreed**

N4-040549 **CR 23.003 088 REL-6; Addition of TMGI; Fujitsu**

Discussion: The new reference have to be added at the of the reference list.

Information have to be removed from CR.

Vodafone: The new section will be added after section 14 (this have to be mention in CR cover page).

Samsung: In section of Structure of TMGI service ID should be before MCC and MNC.

Fujitsu: Order is independent in stage 3 specification.

NEC would like to see detailed description how TMGI has constructed in stage 3 (TS 29.060).

NEC proposed to approve revised version of CR and send LS to RAN3 to ask status of their work in this issue.

Status: **Revised to N4-040713**

N4-040713 **CR 23.003 088 rev1 REL-6; Addition of TMGI; Fujitsu**

Discussion:

Status: **Agreed**

N4-040714 **Output LS on Clarification of TMGI format; Fujitsu**

Discussion:

Status: **Approved**

N4-040559 **CR 29.060 497 Rel-6; Another Cause for MBMS Notification Reject Request; Huawei**

Discussion:

Status: **Agreed**

6.13 Automatic Device Detection (ADD)

N4-040579 **CR 23.012 015 rev5 Rel-6 ; Addition of ADD feature ; Ericsson**
Discussion: SDL source files have to be provided by source.
Ericsson would like to know the reason why IMEISV can be retrieved either from VLR or HLR. From VLR should be removed.
NEC proposes to have this described in stage 1 specification, not in stage 3.
The sentence: "A device management system can retrieve the IMEISV either from VLR or from HLR, or be triggered by a changed IMEISV in either VLR or HLR." will be deleted.
Last two sentences on the middle chapter will be deleted.
Improvement was made in the text.
Status: **Revised to N4-040735**

N4-040735 **CR 23.012 015 rev6 Rel-6 ; Addition of ADD feature ; Ericsson**
Discussion:
Status: **Agreed**

N4-040579 **CR 23.012 015 rev5 Rel-6 ; Addition of ADD feature ; Ericsson**
Discussion:
Status: **Agreed**

N4-040580 **CR 23.008 130 rev4 Rel-6 ; Add IMEISV to 'data stored in the HLR' due to ADD function ; Ericsson**
Discussion: ADD function is introduced into SA requirement specification 22.101 v6.6.0.
The solution requires that the HLR be updated with the IMEISV at Location Update/IMSI Attach procedure for the first time in the MSC/VLR or SGSN and if the subscriber later changes Use. The IMEISV should be added to 'data stored in the HLR' to reflect this behaviour.
Nokia doesn't believe that stage 1 solution requires that the HLR be updated with IMEISV at the Location Update/IMSI Attach.
Status: **Agreed**

N4-040581 **CR 29.002 718 rev4 Rel-6 ; Addition of IMEISV to Update Location Procedure for ADD function ; Ericsson**
Discussion:
Status: **Revised to N4-040681**

N4-040681 **CR 29.002 718 rev5 Rel-6 ; Addition of IMEISV to Update Location Procedure for ADD function ; Ericsson**
Discussion: Nokia: ADD info should be extendable.
Status: **Revised to N4-040736**

N4-040736 **CR 29.002 718 rev5 Rel-6 ; Addition of IMEISV to Update Location Procedure for ADD function ; Ericsson**
Discussion:
Status: **Agreed**

N4-040582 **CR 29.060 488 rev2 Rel-6 ; Automatic Device Detection (ADD) support in Inter-SGSN Routing Area Update procedures ; Ericsson**
Discussion:
Status: **Agreed**

6.14 CAMEL phase 4+

N4-040539 **CR 23.008 131 Rel-6; Active Location Retrieval for MT call handling; Ericsson**
Discussion: CN plenary should approve these CRs conditionally until SA plenary has approved Service requirements in stage 1.
"Active location should be renamed to "Current Location".
Lucent: Where the Current Location has been defined?
Nokia: It is defined on 22.071.
Information section will be removed from revised version.
Status: **Revised to N4-040720**

N4-040720 **CR 23.008 131 rev1 Rel-6; Active Location Retrieval for MT call handling; Ericsson**
Discussion:
Status: **Agreed**

N4-040540 **CR 23.018 142 Rel-6; Active Location Retrieval for MT call handling; Ericsson**
Discussion:
Status: **Withdrawn**

N4-040541 **CR 29.002 733 Rel-6; Active Location Retrieval for MT call handling; Ericsson**
Discussion: Alcatel: Is this also used within pre-paging description is needed for SRI-procedure?
Ericsson: Gateway MSC doesn't have any information about pre-paging.
Siemens: The functionalities can be combined by using same flag.
Status: **Revised to N4-040721**

N4-040721 **CR 29.002 733 rev1 Rel-6; Active Location Retrieval for MT call handling; Ericsson**
Discussion:
Status: **Revised to N4-040753**

N4-040753 **CR 29.002 733 rev2 Rel-6; Active Location Retrieval for MT call handling; Ericsson**
Discussion: The final version is placed on 3GPP server.
Status: **Agreed on email**

6.15 Location services

N4-040578 **CR 29.002 734 Rel-6; Add Additional V-GMLC parameter in MAP-SRI-INFO-FOR-LCS ; Ericsson**
Discussion:
Status: **Revised to N4-040732**

N4-040732 **CR 29.002 734 Rel-6; Add Additional V-GMLC parameter in MAP-SRI-INFO-FOR-LCS ; Ericsson**
Discussion:
Status: **Agreed without presentation**

N4-040585 **CR 29.002 735 Rel-6; Modify IMEI parameter usage definition in MAP-PSL and MAP-SLR ; Ericsson**
Discussion:
Status: **Agreed**

N4-040600 **CR 29.002 736 Rel-6; Addition of SAI-Present indication to the**

LCS procedures; Nokia
Discussion:
Status: **Agreed**

6.16 TrFO/codec control

N4-040587 **Clarifications on H.248 3GUP Package; Alcatel**
Discussion:
Status: **Revised to N4-040674**

N4-040674 **Clarifications on H.248 3GUP Package; Alcatel**
Discussion: Alcatel: The changes are proposed to have in Rel-6.
Meeting agreed that improvement should be made, but not in the way it's described in this proposal. More study is needed.
Email discussion is needed.
Status: **Noted**

6.17 MAP specification

N4-040521 **Resource Occupancy with Pre-Paging; Siemens**
Discussion: In 3GPP networks there is a risk that an MSRN is allocated at the VLR without being used. This happens e.g. when a mobile terminated call is released at the GMSC by the calling subscriber within the time window which starts with the SRI being sent and ends with the SRI ack being received.
With the introduction of Pre-Paging this time window becomes longer and therefore the probability of allocating unused MSRNs increases. Furthermore it is not only the MSRN, but also radio resources which could be allocated without being used. The period for which these resources would be unused could be as much as 90 seconds (i.e. the maximum value of the MSRN supervision timer).
In addition during this 90 second period other calls directed to the called mobile subscriber may meet the busy condition i.e. the called subscriber is blocked from receiving calls.
This problem is well known and documented in 3GPP TR 23.908 chapter 10.

Ericsson: Why do we have to change MAP? We could just solve the problem in ISUP/BICC level by IAM. Ericsson don't see need for this functionality.
Siemens: This is proposed to introduce in Rel-6 as optional feature.
NEC would like to have more time to review proposed changes.
Status: **Postponed to CN4#24**

N4-040522 **CR 23.018 141 Rel-6; CR 23.018 141 Rel-6; Pre-Paging Resource Optimisation; Siemens**
Discussion:
Status: **Revised to N4-040734**

N4-040734 **CR 23.018 141 Rel-6; CR 23.018 141 Rel-6; Pre-Paging Resource Optimisation; Siemens**
Discussion:
Status: **Withdrawn**

N4-040523 **CR 29.002 732 Rel-6; CR 29.002 732 Rel-6; Pre-Paging Resource Optimisation; Siemens**

Discussion:
Status: **Withdrawn**

6.18 AoB for Release 6

6.18.1 Network sharing

N4-040661 **LS on Evaluation of MOCN redirect alternatives ; SA2**
Discussion:
Status: **Noted**

N4-040678 **Redirection mechanism in MOCN sharing scenario ; TeliaSonera**
Discussion:

This document presents an operator's view of the redirection functionality in the MOCN scenario. A short comparison between the two alternatives currently being discussed and proposed by SA2 is also given. The proposal is for the CN groups to take into account the operator's recommendations on the redirection functionality as discussed above when evaluating different alternatives as requested by SA2.

The following requirements have to be covered in operator's point of view:

(i) As little information as possible should be shared between the core network operators that can allow them to gather statistics on, for example, customer basis, roaming agreements, and network status.

(ii) It should not be under the direct control of a core network operator which other core network operator the redirection shall be addressed to. This is in order to avoid the possibility of discrimination of some core network operator(s).

(iii) The additional load on the radio interface should be minimized since this is a scarce resource.

Status: **Noted**

N4-040679 **Information flow of the CN centric redirection ; Siemens**
Discussion: There was no support for Siemens proposal.
Siemens can agree
Status: **Noted**

N4-040584 **Redirection for MOCN ; Ericsson**
Discussion:
Status: **Revised to N4-040682**

N4-040682 **Redirection for MOCN ; Ericsson , TeliaSonera**
Discussion:

Siemens: Overall coordination should be done prefer in CN than RAN network.
Nortel Networks: Steps 8 and 9 could be done after step 13. Then you only have to do it only once.
Siemens: This mechanism is not needed if success of this is 50%.
Siemens: If we compare these 2 proposals. Differences are not so big.
Nortel and Nokia are favour of Ericsson's solution based on arguments in SA2.
CN1/CN4 session agreed this discussion paper will be used as working assumption in future work
Status: **This was agreed as a working assumption**

N4-040685 **LS on MOCN redirect alternatives; LM Ericsson**
Discussion:
Status: **Withdrawn**

N4-040608 **Evaluation of Re-direct for MOCN NetSharing; LM Ericsson**
Discussion:
Status: **Withdrawn**

6.18.2 Handover

N4-040603 **CR 29.010 107 Rel-6; Addition of cause code mapping for BSSAP Clear Request and RANAP Iu Release Request; Nokia**
Discussion:
Status: **Agreed**

N4-040599 **CR 29.010 106 Rel-6; Removing of non-existing error indications from Location update mappings; Nokia**
Discussion: Ericsson: Why the note 2 is needed, because it's already covered in TS 23.012?
Meeting decided Note 2 will be deleted.
Status: **Revised to N4-040741**

N4-040741 **CR 29.010 106 rev1 Rel-6; Removing of non-existing error indications from Location update mappings; Nokia**
Discussion: Orange: Reason for change are completely wrong. This specification is not for External interfaces.
Nokia: This exactly for external interfaces and we can't agree Orange's comment.
Orange: Changes should be done first in 23.012 before changes can be proved in 29.010.
Nokia: The table was added in specification September 2002. This
Vodafone: Is this internal mapping defined somewhere? Would it be good to have another mapping table for this specification.
Ericsson: The current text could be acceptable if there is a Note to clarify the current problem.
Status: **Revised to N4-040752**

N4-040752 **CR 29.010 106 rev2 Rel-6; Removing of non-existing error indications from Location update mappings; Nokia**
Discussion: Ericsson believes Note 2 is not needed. It's duplication of information.
Status: **Revised to N4-040755**

N4-040755 **CR 29.010 106 rev3 Rel-6; Removing of non-existing error indications from Location update mappings; Nokia**
Discussion: Ericsson believes Note 2 is not needed. It's duplication of information.
Status: **Agreed**

6.18.3 Supplementary Services

N4-040576 **CR 23.015 007 rev1 Rel-6; ODB Handling for existing PDP contexts; Nokia; NEC**
Discussion:
Status: **Agreed**

N4-040601 **CR 29.002 737 Rel-6; Clarification on the use of MSISDN parameter for Follow Me functionality; Nokia**
Discussion:
Status: **Agreed**

7 UMTS Release 5; Release 4 & Release 99 maintenance

7.1 Subscriber data handling for the IMS

7.1.1 HSS – CSCF (Cx) & SLF - CSCF (Dx) interfaces

N4-040530 **CR 29.228 100 Rel-5; Redefinition of User Profile download techniques to enable proper function of Cx interface and S-CSCF ; Nortel Networks; Vodafone**
Discussion: Lucent: We should look Nokia's CRs on this topic before agreement.
Nokia proposal for Rel-6 is more enhancement splitting. Nokia is willing to have Rel-6 functionality (N4-040594) also in Rel-5.
Vodafone believe that Nokia's approach in Rel-6 doesn't solve deregistration problem.
Status: **Postponed**

N4-040531 **CR 29.228 101 Rel-6; Redefinition of User Profile download techniques to enable full functionality of Cx interface and S-CSCF ; Nortel Networks; Vodafone**
Discussion:
Status: **Postponed**

N4-040532 **CR 29.229 038 Rel-5; Removal of User-Data-Request-Type AVP; Nortel Networks; Vodafone**
Discussion:
Status: **Postponed**

N4-040533 **CR 29.229 039 Rel-6; Removal of User-Data-Request-Type AVP; Nortel Networks; Vodafone**
Discussion:
Status: **Postponed**

N4-040551 **CR 29.228 092 rev1 Rel-5; Downloading the user profile based on User-Data-Request-Type; Lucent Technologies**
Discussion: Vodafone**:** The sentence should add for clarification in all parts:
"The HSS shall download the user profile which contains the…"
Status: **Postponed to CN4#24**

N4-040552 **CR 29.228 093 rev1 Rel-6; Downloading the user profile based on User-Data-Request-Type; Lucent Technologies**
Discussion:
Status: **Postponed to CN4#24**

N4-040528 **CR 29.228 098 Rel-5; Correction of SessionCase attribute ambiguity; Nortel Networks; Vodafone**
Discussion:

Status: **Agreed**

N4-040529 **CR 29.228 099 Rel-6; Correction of SessionCase attribute ambiguity; Nortel Networks; Vodafone**
Discussion:
Status: **Agreed**

N4-040527 **Problems with splitting User Profile into Registered and Unregistered parts.; Nortel Networks; Vodafone**
Discussion:
Status: **Noted**

N4-040534 **Improvements to efficiency of PPR; Nortel Networks**
Discussion: Ericsson would like to here operator's view proposed solution.
Operators don't have clear view of this solution. The common opinion was that more studying this topic is needed.
Siemens: If the profile of many subscribers. is changed at the same time it cause massive signalling load in network. The proposed solution could be introduced in Rel-6 on backward compatibility for earlier releases.
Status: **Noted**

N4-040535 **CR 29.228 102 Rel-5; Changes to User Profile structure and optimisation of Update process; Nortel Networks**
Discussion:
Status: **Postponed**

N4-040536 **CR 29.228 103 Rel-6; Changes to User Profile structure and optimisation of Update process; Nortel Networks**
Discussion:
Status: **Postponed**

N4-040537 **CR 29.229 040 Rel-5; Changes to PPR for optimisation of Update process; Nortel Networks**
Discussion:
Status: **Postponed**

N4-040538 **CR 29.229 041 Rel-6; Changes to PPR for optimisation of Update process; Nortel Networks**
Discussion:
Status: **Postponed**

N4-040556 **CR 29.229 042 Rel-5; Multimedia-Auth-Request (MAR) Command Message Format Corrections; Lucent Technologies**
Discussion:
Status: **Agreed**

N4-040557 **CR 29.229 043 Rel-6; Multimedia-Auth-Request (MAR) Command Message Format Corrections; Lucent Technologies**
Discussion:
Status: **Agreed**

N4-040592 **CR 29.228 104 Rel-5; User profile split; Nokia**

Discussion:
Status: **Postponed to CN4#24**

N4-040593 **CR 29.229 044 Rel-5; User profile split; Nokia**
Discussion:
Status: **Postponed to CN4#24**

N4-040594 **CR 29.228 105 Rel-6; User profile split; Nokia**
Discussion:
Status: **Revised to N4-040717**

N4-040717 **CR 29.228 105 rev1 Rel-6; User profile split; Nokia**
Discussion:
Status: **Revised to N4-040717**

N4-040738 **CR 29.228 105 rev2 Rel-6; User profile split; Nokia**
Discussion: This CR is based assumption that it's also in Rel-5.
Siemens proposed user profile split will be removed completely from Rel-5 and find out how to do it in Rel-6. There is fundamental change in this CR to download user profile and it cannot be accept in Rel-5.
There were no common opinion if user profile split will be removed from Release 5 or do we have user profile enhancement solution in Rel-5.
Vodafone and Siemens support user profile movement From Rel-5.
They believe the easiest way is the remove it from Rel-5 and have a solution in Rel-6.
Ericsson, Lucent, Nokia, HP support Rel-5 user profile enhancement.
The discussion will continue on email explorer. Bis-meeting is maybe needed before CN4#24.
Status: **Postponed to CN4#24**

3 different proposals to solve user profile split:

3 proposals are on the table:

1. To have in Rel-5 the ability to download only the complete user profile and in Rel-6 the ability to download the complete user profile, or the unregistered or the registered part as applicable.
2. To have in Rel-5 the ability the ability to download the complete user profile, or the unregistered or the registered part as applicable.
3. To have the ability to download the complete user profile or the unregistered or the registered part but if the unregistered user profile has no services assigned then it would change state to not-registered.

Discussion will continue offline and decision should be made in next meeting.

N4-040595 **CR 29.229 045 Rel-6; User profile split; Nokia**
Discussion:
Status: **Postponed to CN4#24**

N4-040620 **CR 29.228 108 Rel-5; Clarification on the Unregistered state; France Télécom**
Discussion:

Nokia: There are fundamental problems with this CR. Cover page says: " It will not be possible for operators to statically assign S-CSCF to specific users without serious misoperations." Nokia doesn't see this is the case.

France Telecom: Does any other company shares they view on unregistered state as described in TS 23.228 chapter 5.12.0?

Ericsson: If we don't have clear understand of unregistered state we can as information from SA2.

France Telecom: What are the conditions to change the state from registered to unregistered?

France Telecom: In 23.228 it is clearly indicated the behaviour of unregistered state.

Ericsson and Nokia believe text is not clear in stage 2.

Nokia and Ericsson proposed that more clarification is needed from SA2 on unregistered state.

LS to SA2 N4-040690.

After discussion CN4 decided That LS is not needed.

Status: **Postponed**

N4-040690 Output LS; Clarification on the Unregistered state; France Télécom

Discussion:

Status: **Withdrawn**

N4-040621 CR 29.228 109 Rel-6; Clarification on the Unregistered state; France Télécom

Discussion:

Status: **Postponed**

N4-040622 CR 29.228 110 Rel-5; Handling of missing information Element marked as (M); (C) or (O); France Télécom

Discussion:

Status: **Revised to N4-040666**

N4-040666 CR 29.228 110 rev1 Rel-5; Handling of missing information Element marked as (M); (C) or (O); France Télécom

Discussion:

Siemens: For conditional cases, how can receiving entity to know if sending entity was fulfilled?

Lucent: The example needs to be refreshed: "The Failed-AVP AVP with an example of the missing AVP shall be included in this message"

Nokia needs some more time to check the revised version back at home.

Lucent: The last sentence have to be clarified: "Absence or presence of this Information Element may cause an application error, at the discretion of the application at the receiving entity."

Vodafone proposed the sentence can be deleted. The sentence is more confusing than clarification.

Status: **Revised to N4-040691**

N4-040691 CR 29.228 110 rev2 Rel-5; Handling of missing information Element marked as (M); (C) or (O); France Télécom

Discussion: Nokia: This kind of behaviour are not requred in the Diameter base protocol: "This message shall

also include a Failed-AVP AVP containing the missing Information Element i.e. the corresponding Diameter AVP". It is not needed and Nokia don't believe this causes any serious misoperations in Network.

Status: **Postponed**

N4-040623 CR 29.228 111 Rel-6; Handling of missing information Element marked

as (M); (C) or (O); France Télécom

Discussion:

Status: **Revised to N4-040667**

N4-040667 **CR 29.228 111 rev1 Rel-6; Handling of missing information Element marked as (M); (C) or (O); France Télécom**

Discussion:

Status: **Revised to N4-040692**

N4-040692 **CR 29.228 111 rev2 Rel-6; Handling of missing information Element marked as (M); (C) or (O); France Télécom**

Discussion:

Status: **Postponed**

N4-040558 **DISC; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol; Lucent Technologies**

Discussion:

Lucent feels the current text in TS 29.229 could be misconstrued to also apply also to Vendor-Id in the upper level of the CER – CEA. As a consequence of the wording in TS 29.229 and current understanding it follows that the use of Vendor-Id AVP changes dependent on whether the Vendor-ID is included in the Vendor-Specific-Application-Id AVP or the upper level of CER/CEA.
Confirmation of the understanding of the use of Vendor-Id from the Diameter Base Protocol and 3GPP's use of it is needed from Bernard Aboba, John Loughney, and/or David Mitton.
CN4 needs to come to a common understanding this use and clarify TS 29.229 accordingly.

Status: **Noted**

N4-040659 **CR 29.229 049 Rel-5; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol; Lucent Technologies**

Discussion: Siemens: The meaning of the deletion is not clear for us. What else can be sent than Vendor-Id AVP and the value?
Nokia: Two things are clarified in this chapter. It might be useful to split this chapter in two paragraphs.
Ericsson: The note should be added to clarify Vendor ID.
Agreed by meeting.
Meeting decided chapter 5.6 needs to be refreshed.

Status: **Revised to N4-040693**

N4-040693 **CR 29.229 049 rev1 Rel-5; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol; Lucent Technologies**

Discussion:

Status: **Revised to N4-040705**

N4-040705 **CR 29.229 049 rev2 Rel-5; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol; Lucent Technologies**

Discussion:

Status: **Agreed**

N4-040660 **CR 29.229 050 Rel-6; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol; Lucent Technologies**

Discussion: This is mirror CR for Rel-6
Status: **Revised to N4-040694**

N4-040694 **CR 29.229 050 rev1 Rel-6; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol; Lucent Technologies**
Discussion: This is mirror CR for Rel-6
Status: **Revised to N4-040705**

N4-040706 **CR 29.229 050 rev2 Rel-6; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol; Lucent Technologies**
Discussion: This is mirror CR for Rel-6
Status: **Agreed**

N4-040729 **CR 29.228 114 rev1 Rel-5; LIR and service related to unregistered state; Nokia**
Discussion: Nokia: The HSS shall indicate to the I-CSCF if the user is unregistered and has no services related to the unregisteres state.
France Telecom doesn't see problem with current specification.
Nokia: The descriptions of the registration status which conform to Nokia view were agreed in CN4#22bis
Lucent: This CR is a way on the right direction. CN4 should agree this one.
France Telecom can't except this CR.
Status: **Postponed**

7.1.2 HSS – SIP AS (Sh) interface

N4-040525 **CR 29.329 034 rev1 Rel-5; Correction of reference for definition of MSISDN; Siemens; Nortel Networks; Vodafone**
Discussion:
Status: **Agreed**

N4-040526 **CR 29.329 035 rev1 Rel-6; Correction of reference for definition of MSISDN; Siemens; Nortel Networks; Vodafone**
Discussion:
Status: **Agreed**

7.2 CAMEL phase 4

N4-040588 **CR 23.079 080 Rel-5; Enhancement to Route_Permitted procedure to handle Short/ Long FTNs; Nortel Networks, Ericsson**
Discussion: Lucent needs more time to check CR.
Status: **Agreed on email**

N4-040640 LS on CAMEL prepay: IP version of the GGSN address; **SA5**
Discussion:
Status: See discussion under agenda item 4

7.3 GPRS

N4-040514 **CR 29.060 492 REL5; Change the attribution of Radio Priority LCS from TV to TLV; NEC**
Discussion:

Status: **Agreed**

N4-040515 **CR 29.060 493 REL6; Change the attribution of Radio Priority LCS from TV to TLV; NEC**
Discussion: **Not exact mirror CR, but approved as category A.**
Status: **Agreed**

N4-040615 **Discussion paper on "Delete PDP Context Correction"; LM Ericsson**
Proposal: The problem described can be solved by requiring that the GGSN shall not accept a Delete PDP Cxt Request for an existing PDP context from a Control Plane IP address that is not associated with the GTP Tunnel. The GSN shall discard the message.
A new cause code, 'Illegal request', is defined and the GGSN sends back to the source of the message a Delete PDP Context Response with cause value 'Illegal request'. This will ensure that the SGSN will stop retransmission to the GGSN and locally remove the PDP Contexts.
With the proposed GGSN behaviour, the SGSN should always (except for the ordinary "old" SGSN at ISRAU) send Delete PDP Context, in order to avoid hanging PDP Contexts.
This proposal is in line with the idea for handling of GTP Tunnels in 23.060. At ISRAU, the new SGSN shall always first send an Update PDP Context, to establish the GTP Tunnel. Only after that, it is possible for the new SGSN to send Delete PDP Context Request, in case the new SGSN needs to remove a PDP Context. It is important that the proposal is implemented also in earlier releases. Else there may be scenarios where an earlier release SGSN may send Delete PDP Context Request from an IP address different from Control Plane IP address that is associated with the GTP Tunnel. This is currently allowed in the specification. If this happens, the Delete Request would not be accepted in a new GGSN that implements the proposed behaviour.
Ericsson proposes that the solution described here is introduced in 29.060 back to Release 99 and that the associated CRs (see Tdocs N4-040616, N4-040617, N4-040618, N4-040619)are accepted.
Discussion: Chairman: If we want to agree changes in R99, it have to be frequently misoperations in network.
CN plenary has requested proofs about how frequent this misoperations happens.
More time are given for companies to analysis the current problem.
CRs are postponed to next meeting.
Status: **Noted**

N4-040616 **CR 29.060 499 R-99; Delete PDP Context Correction; LM Ericsson**
Discussion:
Status: **Postponed to CN4#24**

N4-040617 **CR 29.060 500 Rel-4; Delete PDP Context Correction; LM Ericsson**
Discussion:
Status: **Postponed to CN4#24**

N4-040618 **CR 29.060 501 Rel-5; Delete PDP Context Correction; LM Ericsson**
Discussion:
Status: **Postponed to CN4#24**

N4-040619 **CR 29.060 502 Rel-6; Delete PDP Context Correction; LM Ericsson**
Discussion:
Status: **Postponed to CN4#24**

7.4 SCUDIF

7.5 TrFO/Codec control

N4-040543 **OoBTC corrections; supported codec mode configurations; Siemens**

Discussion: Until now the standard (TS 23.153, TS 26.103) provides a protocol for the negotiation of the supported codec modes during speech codec negotiation, but clear guidance how to use this protocol if the RNC supports only certain codec mode configurations, is missing.
Experience shows, however, that real-world RNC implementations support only a limited number of codec mode configurations and that the support of subsets of these configurations cannot be guaranteed. This may cause the failure of connection setups and may reduce the probability of TrFO connections.
To improve the description of the codec handling it is proposed:
1) to explicitly allow to differentiate between different codec mode configurations of the same codec type, by using separate "Single Codec" elements for each configuration;
2) to explicitly require from an RNC the support of all possible subsets for every supported codec mode configuration.

Status: **Noted**

N4-040544 **CR 23.153 070 Rel-4; Correction of Codec Negotiation and supported codec mode configurations; Siemens**

Discussion: Ericsson doesn't believe this is an serious and frequent error that CR can be approved can be done in Rel-4.
Lucent, Ericsson and Vodafone D2 support these CRs on Rel-4 onwards.

Status: **Revised to N4-040718**

N4-040718 **CR 23.153 070 rev1 Rel-4; Correction of Codec Negotiation and supported codec mode configurations; Siemens**

Discussion: Ericsson doesn't believe this is an serious and frequent error that CR can be approved can be done in Rel-4.
Lucent, Ericsson and Vodafone D2 support these CRs on Rel-4 onwards.

Status: **Agreed**

N4-040545 **CR 23.153 071 rev1 Rel-5; Correction of Codec Negotiation and supported codec mode configurations; Siemens**

Discussion:

Status: **Revised to N4-040719**

N4-040719 **CR 23.153 071 Rel-5; Correction of Codec Negotiation and supported codec mode configurations; Siemens**

Discussion: **Agreed**

N4-040583 **CR 23.153 072 Rel-5 ; Correction to section 6.5 on information flow after UMTS to GSM handover; Ericsson**

Discussion: Cover page updated.

Status: **Agreed**

7.6 MAP specification

7.7 Location Services

N4-040517 **CR 29.002 712 rev1 R99; Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Networks; AWS; Siemens**
Discussion:
Status: **Agreed**

N4-040518 **CR 29.002 713 rev1 Rel-4; Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Networks; AWS; Siemens**
Discussion:
Status: **Agreed**

N4-040519 **CR 29.002 714 rev1 Rel-5; Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Networks; AWS; Siemens**
Discussion:
Status: **Agreed**

N4-040520 **CR 29.002 731 Rel-6; Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Networks; AWS; Siemens**
Discussion:
Status: **Agreed**

7.8 Any Other Business for Release 5 and earlier

8 GSM maintenance

9 AOB

9.1 Terms of reference

N4-040698 **CAMEL update to CN4 Terms of Reference; CN2 chairman**
Discussion: These will be included in updated CN4 terms of reference.
Status: **Agreed**

N4-040723 **Updated CN4 Terms of Reference; MCC**
Discussion: The final version is placed on 3GPP server on will be sent on CN#24 approval.
Status: **Agreed**

10 Update of the Work Plan

N4-040512 **Work Plan; MCC**
Discussion: Work Plan was updated during the meeting.
Status: **Agreed**

11 Future meetings

N4-040513 **Future meetings; MCC**
Discussion:
Status: **Noted**

N4-040662 Proposed Working group meeting dates 2005; CN4 Chairman

Discussion: There are no possibilities for bis-meeting in June.
Chairman will raise a question about need for extra meeting on CN4 email explorer.
If extra meeting is needed, it will be held at the end of June or beginning of July.
Ericsson: There are late requirements coming from SA2 which has caused the situation specially in WLAN. We should try to find conclusion on email and conference call without bis-meeting.
Nokia and Lucent proposed to have allocated date for bis-meeting if controversial issues can't be solved via email or conference call.
Topic to be handled are only WLAN, GUP and IMS.
Preference for meeting is on June starting on 21st.
If IMS meeting is needed Ericsson would like to see it co-allocated with CN1 in Sophia from 14th to 18th June.
After email discussion it was decided that bis-meeting will take a place from 21st to 23rd June.

Status: **Noted**

12 Check of approved output documents

N4-040509 List of approved output documents; CN4 chairman

Discussion:

Status: **Approved**

13 Closing of the meeting (15:11 Friday)

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved

Tdoc	Tdoc Title	LS to	LS cc	LS Attachment
N4-040685	LS on MOCN redirect alternatives	SA2, RAN3		
N4-040746	Reply LS on the nature of LCS	SA2	SA1, CN1, GERAN, GERAN2	
N4-040664	Reply LS on Harmonisation of AMR Configurations	SA4	SA2	
N4-040699	LS on Requirement for presence of the GAA-Application-Type AVP	SA3		N4-040572
N4-040747	Managing of Metadata: New Procedures vs. Metadata GUP Components	SA2		
N4-040725	LS on Assignment of the Diameter codes and identifiers	CN3		N4-040726
N4-040748	LS on Requirement for presence of the GAA-Application-Type AVP	SA3		N4-040572
N4-040749	LS on change in MBMS Multicast Service Deactivation Procedure;	SA2		
N4-040714	LS on Clarification of TMGI format	RAN2, RAN3	CN1	N4-040713
N4-040751	Reply LS to Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0	Wi-Fi Alliance	SA2	mdr.xls

A.2 New TSs /TRs Approved (to be placed under change control)

Tdoc # N4-04	Title	Source	Notes
0670	TS 29.109 0.3.0	Nokia	Raised to version 1.0.0 Will be send for information to plenary
0726	TS 29.230 0.4.0	Nokia	Raised to version 2.0.0 Send for information and approval to CN pleanry
0744	TS 29.332 0.5.0	Siemens	Raised to version 1.0.0 Will be send for information to plenary

A.3 New / Revised Work Items Approved

Tdoc # N4-04	Title	Source
0750	Revision of WLAN Interworking – stage 3 definition of WLAN – 3GPP interworking	Lucent-CN3,CN1, CN4

A.4 Approved CRs

Tdoc # N4-04	Title	Source
0514	CR 29.060 492 REL5; Change the attribution of Radio Priority LCS from TV to TLV	NEC
0515	CR 29.060 493 REL6; Change the attribution of Radio Priority LCS from TV to TLV	NEC
0517	CR 29.002 712 rev1 R99; Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS, Siemens
0518	CR 29.002 713 rev1 Rel-4; Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS, Siemens
0519	CR 29.002 714 rev1 Rel-5; Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS, Siemens
0520	CR 29.002 731 Rel-6; Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS, Siemens
0525	CR 29.329 034 rev1 Rel-5; CR 29.329 034 Rel-5; Correction of reference for definition of MSISDN	Siemens, Nortel Networks, Vodafone
0526	CR 29.329 035 rev1 Rel-6; Correction of reference for definition of MSISDN	Siemens, Nortel Networks, Vodafone
0528	CR 29.228 098 Rel-5; Correction of SessionCase attribute ambiguity	Nortel Networks, Vodafone
0529	CR 29.228 099 Rel-6; Correction of SessionCase attribute ambiguity	Nortel Networks, Vodafone
0556	CR 29.229 042 Rel-5; Multimedia-Auth-Request (MAR) Command Message Format Corrections	Lucent Technologies
0557	CR 29.229 043 Rel-6; Multimedia-Auth-Request (MAR) Command Message Format Corrections	Lucent Technologies
0559	CR 29.060 497 Rel-6; Another Cause for MBMS Notification Reject Request	Huawei
0580	CR 23.008 130 rev4 Rel-6 ; Add IMEISV to 'data stored in the HLR' due to ADD function	Ericsson
0582	CR 29.060 488 rev2 Rel-6 ; Automatic Device Detection (ADD) support in Inter-SGSN Routing Area Update procedures	Ericsson
0583	CR 23.153 072 Rel-5 ; Correction to section 6.5 on information flow after UMTS to GSM handover	Ericsson
0585	CR 29.002 735 Rel-6; Modify IMEI parameter usage definition in MAP-PSL and MAP-SLR	Ericsson
0588	CR 23.079 080 Rel-5; Enhancement to Route_Permitted procedure to handle Short/ Long FTNs	Nortel Networks, Ericsson
0600	CR 29.002 736 Rel-6; Addition of SAI-Present indication to the LCS procedures	Nokia
0601	CR 29.002 737 Rel-6; Clarification on the use of MSISDN parameter for Follow Me functionality	Nokia
0603	CR 29.010 107 Rel-6; Addition of cause code mapping for BSSAP Clear Request and RANAP Iu Release Request	Nokia
0704	CR 29.060 498 Rel-6; Clarification of the Target Identification IE	Alcatel

0705	CR 29.229 049Rel-5; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol	Lucent Technologies
0706	CR 29.229 050Rel-6; Use of the Vendor ID AVP by 3GPP in the Diameter Base Protocol	Lucent Technologies
0710	CR 29.060 495 REL-; Addition of BM-SC initiated De-registration	Fujitsu
0711	CR 29.060 486 rev1 REL-6; Support of Inter-SGSN RA update for MBMS	Fujitsu
0712	CR 29.060 496 REL-6; Addition of TMGI	Fujitsu
0713	CR 23.003 088 REL-6; Addition of TMGI	Fujitsu
0715	CR 29.328 085 Rel6; Mapping to Diameter AVP for Requested Identity Set	France telecom
0718	CR 23.153 070 Rel-4; Correction of Codec Negotiation and supported codec mode configurations	Siemens
0719	CR 23.153 071 Rel-5; Correction of Codec Negotiation and supported codec mode configurations	Siemens
0720	CR 23.008 131rev1 Rel-6; Active Location Retrieval for MT call handling	Ericsson
0732	CR 29.002 734 Rel-6; Add Additional V-GMLC parameter in MAP-SRI-INFO-FOR-LCS	Ericsson
0735	CR 23.012 015 rev5 Rel-6 ; Addition of ADD feature	Ericsson
0736	CR 29.002 718 rev5 Rel-6 ; Addition of IMEISV to Update Location Procedure for ADD function	Ericsson
0737	CR 23.015 007 rev1 Rel-6; ODB Handling for existing PDP contexts	Nokia, NEC
0753	CR 29.002 733 rev2 Rel-6; Active Location Retrieval for MT call handling	Ericsson
0754	CR 29.060 478 rev4 Rel-6; Provision of S-CDR information to the GGSN	Vodafone
0755	CR 29.010 106 Rel-6; Removing of non-existing error indications from Location update mappings	Nokia, Vodafone D2

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Third Generation Partnership Project

MEETING REPORT v3.0.0

3GPP TSG-CN4#22bis

Edinburgh, UK.
14th - 20th April, 2004

Hosted by:

The EF3

CN4 Officials:

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Table of contents

1 Opening of the meeting and approval of the agenda

Mr. Peter Schmitt of Siemens welcomed the delegates to Edinburgh on behalf of the hosts.
The meeting was chaired by Mr. Peter Schmitt, (Chair, Siemens). Additional support was provided by Mr. Kimmo Kymäläinen (CN4 Secretary, MCC) until Friday 16th.

Proposed agenda **N4-040372 APPROVED**

1.1 IPR Call

The Chairman drew attention to Members' obligations under the 3GPP Partner Organizations' IPR policies. Every Individual Member organization is obliged to declare to the Partner Organization or Organizations of which it is a member any IPR owned by the Individual Member or any other organization which is or is likely to become essential to the work of 3GPP.

2 Allocation of documents to agenda items

N4-040375 **Detailed agenda & time plan for CN4 #22bis: status on eve of meeting**

Discussion: LS which are not related to IMS, WLAN or GUP will be postponed to CN4#23
Status: **APPROVED.**

3 Meeting Reports

4 Input liaison statements

Liaison statement which are not dealing WLAN, IMS or GUP were postponed to CN4#23 Zagreb meeting.

5 Release 6

5.1 Wireless LAN interworking

N4-040429 **LS on the use of MSISDN in WLAN Interworking for charging and management reasons, SA2**
Discussion: Nokia: Charging will be based on MSISDN also in WLAN.
Status: **Noted**

N4-040437 **Discussion paper on Wx AVPs ABNF, Ericsson**
Discussion: In the CN4#22 meeting was decided to create a specification to control AVPs, Command Codes and Error Codes for all Diameter-based applications. In this way, it is likely that some of the content of this contribution will be eventually moved to this common specification. But while this specification is in an estable shape, this discussion paper proposes to track the ABNF and description of the Wx AVPs in the TS 29.234.
Ericsson: Editor's note beginning of proposed changes doesn't make any sense and it should be removed.
In table 6.3.1 header "must" have to be changed to "shall" because of 3GPP drafting rules.
WLAN_APN_HOME (0) Access is allowed in home PLMN only.
WLAN_APN_VISITED (1) Access is allowed in visited PLMNs and home PLMN
Status: **Revised to N4-040457**

⇓ **REVISED** ⇓

N4-040458 **Discussion paper on Wx AVPs ABNF, Ericsson**

Discussion: Document will be added a new version of WLAN specification

Status: **Agreed by CN4**

N4-040395 **Discussion paper on Wx Error Codes, Ericsson**

Discussion: Editor's note should be removed.

There is a need to add editor's note that authentication error code is under investigation if cause codes from Cx specification can be re-used.

Status: **Revised to N4-040459**

⇓ **REVISED** ⇓

N4-040459 **Discussion paper on Wx Error Codes, Ericsson**

Discussion:

Status: **Agreed by CN4**

N4-040396 **Discussion paper on Wx Command Codes ABNF, Ericsson**

Discussion: Editor's note should be removed.

Acronyms should be checked.

Status: **Revised to N4-040460**

⇓ **REVISED** ⇓

N4-040460 **Discussion paper on Wx Command Codes ABNF, Ericsson**

Discussion:

Status: **Agreed by CN4**

N4-040397 **Discussion paper on Wx User Identity, Ericsson**

Discussion:

Status: **Agreed by CN4**

N4-040415 **Diameter based Wa description, Nokia**

Discussion: ABNF have to be online with tables.

Do we want to use a new application ID or do we want to define new parameters as conditional or optional and then have application errors if the parameter which is needed doesn't present.

France Telecom: We would like to have Wa interface with existing application ID but prefer to use error cases on application level.

- An editor's note has to be added in the specification to highlight a problem described above

Status: **Revised to N4-040464**

⇓ **REVISED** ⇓

N4-040464 **Diameter based Wa description, Nokia**

Discussion:

Status: **Agreed by CN4**

N4-040416 **Wd reference point, Nokia**

Discussion: Principle of document was agreed.

If we add only a parameter in a message do we want to show then the complete message or only the delta.

- Lucent would prefer to have as a starting point always the complete message, optimisations can be done later.

Do we want to use a new application ID or do we want to define new parameters as conditional or optional and then have application errors if the parameter which is needed doesn't present.

France Telecom: We would like to have Wa interface with existing application ID but prefer to use error cases on application level.

- An editor's note has to be added in the specification to highlight a problem described above

Status: **Revised to N4-040461**

⇓ **REVISED** ⇓

N4-040461 **Wd reference point, Nokia**

Discussion:

Status: **Agreed by CN4**

N4-040417 **Additional Radius Attributes for the Wa interface, Nokia**

Discussion: Telia-Sonera was concerned about user identification on roaming situation that may cause problems on charging.

SA5 have to provide concept to handle charging issue on WLAN.

LS to SA5 about charging recruitments in this issue to SA5 and copy to SA2. N4-0040462

France Telecom: Explanation is needed to clarify meaning of words (etc. mandatory) on table 6.4.1.

- Nokia will provide some light on this issue on discussion paper N4-040463.

Principle agreed by CN4.

Status: **Agreed by CN4**

N4-040418 **Correction to Signalling flows for Authentication, Authorization & Key Delivery in Appendix A1.1, Nokia**

Discussion:

Status: **Agreed by CN4**

N4-040419 **Miscellaneous tidying up of 29.234 plus correction to Wn interface description, Nokia**

Discussion: This document will be a base version of 3GPP TS 29.234 v1.3.0.

Status: **Agreed by CN4**

N4-040420 **TS 29.234v121 Editorial Improvements for the Creation of a New Baseline, Lucent**

Discussion:

Status: **Noted**

N4-040462 **LS on WLAN Charging Identifiers, Telia-Sonera**

Discussion:

Status: **Revised to N4-040473**

⇓ **REVISED** ⇓

N4-040473 **LS on WLAN Charging Identifiers, Telia-Sonera**

Discussion:

Status: **Agreed**

N4-040463 **Clarification of "Mandatory" nature of Radius attributes on the Wa interface, Nokia**
Discussion:
Status: **Revise to N4-040474**

⇓ **REVISED** ⇓

N4-040474 **Clarification of "Mandatory" nature of Radius attributes on the Wa interface, Nokia**
Discussion:
Status: **Agreed**

N4-040475 **3GPP TS 29.234 v1.3.1, Nokia**
Discussion: Radius should be with CAPITAL letters.
Status: **Agreed**

N4-040476 **3GPP TS 29.234 v1.3.2, MCC**
Discussion: CN4 secretary will check that v.1.3.1 is based on 3GPP drafting rules.
3GPP 29.234 v.1.3.2 will be available latest 21st April 2004.
Status: **Agreed**

5.2 Generic User Profile

N4-040431 **ILS on latest version of 23.241 and proposed work assignments; T2**
Discussion:
Status: **Postponed**

N4-040398 **TS 29.240, General Guidelines, Profile Schema., Lucent Technologies**
Discussion: Ericsson: The chapter component definition of the physical storage, in the specification implementation aspects should be out of scope. How the GUP server knows where the repository data is stored was agreed in SA1 to be out of scope. New interface is needed. Need to be clarified by SA2 and SA1. An LS will be sent to SA2 and SA1 see N4-040477.
Lucent: For access control this type of information is useful and needed.
Combined with 0403 in Tdoc 0478
Status: **Revised to N4-040478**

N4-040478 **TS 29.240, General Guidelines, Profile Schema; Nokia, Lucent Technologies**
Discussion:
Status: **Revised to N4-040489**

N4-040489 **TS 29.240, General Guidelines, Profile Schema; Nokia, Lucent Technologies**
Discussion:
Status: **Endorsed by CN4**

N4-040477 **LS on GUP component physical storage; Lucent, Vodafone**
Discussion:
Status: **Revised to N4-040487**

N4-040487 **LS on GUP component physical storage; Lucent, Vodafone**
Discussion: Combined with 0398 in Tdoc 0403
Status: **Endorsed by CN4**

N4-040399 **TS 29.240, Rp Definition; Lucent Technologies**
Discussion: Nokia: Section 9.1.14 is implementation issue. Nokia's proposal is to have fix relations for the component.
Lucent wants to have it in a more flexible way to store and find the component. The advantage of the flexible approach is that for access control the GUP server detects sub-trees and apply the rules for the tree.

Nokia would like to have an option to use an component type.
Meeting decided that component type will be an optional parameter for the AS and the GUP server.

Status: **Revised to N4-040479**

N4-040479 **TS 29.240, Rp Definition; Lucent Technologies, Nokia**
Discussion: This document is based on Nokia contribution N4-040409

Status: **Revised to N4-040490**

N4-040490 **TS 29.240, Rp Definition; Lucent Technologies, Nokia**
Discussion:
Status: **Endorsed by CN4**

N4-040400 **Summary of Nokia GUP contributions; Nokia**
Discussion: Lucent: The schema language shall be severe chosen. W3C XML schema needs deep look on it.
SA2 has decided on W3C
Ericsson: The decision of SA1 in Bangkok was to specify the terminal issues in later releases of GUP.
Lucent: It is fine to discuss all Nokia contribution in the light that they are specifying the components.
Status: **Noted**

N4-040401 **TS 29.240, Guidelines for creation of XML Schemas; Nokia**
Discussion: Lucent: This is just a microcosmic view on the huge area of XML schema possibilities. Needs restriction in usage of XML.
Editor's note to reflect the restriction of the usage shall be added.
Open issues shall be marked as editor's note.
Status: **Revised to N4-040481**

N4-040481 **TS 29.240, Guidelines for creation of XML Schemas; Nokia**
Discussion:
Status: **Endorsed by CN4**

N4-040402 **TS 29.240, General Guidelines and Namespace Conventions; Nokia**
Discussion: URN shall be changed to URI.
Status: **Revised to N4-040482**

N4-040482 **TS 29.240, General Guidelines and Namespace Conventions; Nokia**
Discussion:
Status: **Endorsed by CN4**

N4-040403 **TS 29.240, Guidelines - Data Referencing; Nokia**
Discussion: Combined with 0398 in Tdoc 0478.
Status: **Endorsed by CN4**

N4-040404 **TS 29.240, XML Schema Structure; Nokia**
Discussion: Lucent: this is not needed because this is an implementation task.
T2 has decided that W3C XML schema shall be used.
Ericsson: CN4 should define the procedures and then a common understanding is reached.
Open issue which XML schema language shall be chosen.
Meeting accepted a document as an informative annex.
Status: **Endorsed by CN4**

N4-040405 **TS 29.240, GUP Procedures Schema; Nokia**
Discussion: XPATH references shall be replaced by GCL references.
Nokia: Not compatible with the current LAP document.
Lucent: It is to early to produce this kind of detail.
Status: **Withdrawn**

N4-040406 **TS 29.240, GUP Data Specific Schemas; Nokia**
Discussion: Lucent: This document is not according to our working assumption agreed in Atlanta, it does not take into account any kind of XPATH language.

Nokia agreed to use GCL only for addressing purposes and they understand to use W3C XML schema language to describe GUP components.
Ericsson: Lucent should bring a detailed example how they understand how the structuring looks like.

Status: **Withdrawn**

N4-040407 **TS 29.240, GUP Component Schema Template; Nokia**
Discussion:
Status: **Revised to N4-040487**

N4-040487 **TS 29.240, GUP Component Schema Template; Nokia**
Discussion:
Status: **Endorsed by CN4**

N4-040408 **TS 29.240, GUP Schemas - GUP Procedure Schema texts; Nokia**
Discussion:
Status: **Revised to N4-040484**

N4-040484 **TS 29.240, GUP Schemas - GUP Procedure Schema texts; Nokia**
Discussion:
Status: **Endorsed by CN4**

N4-040409 **TS 29.240, Rp reference point description improvements; Nokia**
Discussion: The result table in section 9.1.10.2 shall contain more precise explanations.
GUP security isn't specified right now within SA3.
Open issues: Security mechanism used application layer or transport layer.
Status: **Revised to N4-040479**

N4-040410 **TS 29.240, Resource Id contents; Nokia**
Discussion:
Status: **Revised to N4-040485**

N4-040485 **TS 29.240, Resource Id contents; Nokia**
Discussion:
Status: **Revised to N4-040491**

N4-040491 **TS 29.240, Resource Id contents; Nokia**
Discussion:
Status: **Endorsed by CN4**

N4-040411 **TS 29.240, Authorisation; Nokia**
Discussion: Lot of stage 2 material in which is currently not reflected in the stage2 specs.
Status: **Postponed to CN4#24**

N4-040412 **TS 29.240, GUP Procedure/Redirect Update; Nokia**
Discussion: Lucent challenges that this document is technically correct in the mood of performing access control in the redirect procedure.
The sentence "The ResourceID can be optionally given e.g. if it is not the same as provided in the request" needs to be clarified.
Access control is not covered by this contribution.
Status: **Postponed to CN4#24**

N4-040413 **TS 29.240, Addition of References; Nokia**
Discussion: Outdated references are used, only these references which are agreed should be added.
The editor should check that a reference to document is valid when incorporating the agreed changes.
Status: **Withdrawn**

N4-040414 **TS 29.240, Main concepts; Lucent Technologies**
Discussion:
Status: **Revised to N4-040486**

N4-040486 **TS 29.240, Main concepts; Lucent Technologies**
Discussion:
Status: **Endorsed by CN4**

N4-040470 **ASN.1 encoding for XML; Orange**
Discussion: Contradiction to Nokia's proposal in 0401. More efficient transfer over the line when using ASN.1 encoding.
CN4 sees the need for compression and that has to be highlighted to LAP.
Ericsson: Do we see the need for all interfaces to be encoded in ASN.1.
Common opinion was that ASN.1 encoding is needed.
Coding of XML schema is seen as an open issue.
Status: **Noted**

N4-040483 **GUP Components Revealed; Lucent**
Discussion: Vodafone: If Nokia wants to challenge the working assumption they should do this openly giving sound technical reasons.
Vodafone-D2 proposes that our report shall clearly state that the decision to use Xpath, XML schemas or subsets of this in the stage 3 are under the responsibility of CN4.
Status: **Noted**

N4-040492 **TS 29.240 v0.3.0; Nokia**
Discussion: Editor will distribute the document until 22nd April 2004.
This version will be used as basis for future work.
Status: **Agreed**

5.3 Subscriber data handling for the IMS

N4-040377 **Clarification of the uses of SIP URIs for Public User ID; Lucent**
CR: **23.003-086r2 Rel-6**
Discussion: Lucent: This CR provides only recommendation. The RFC doesn't provide enough information that we could reference to it.
Status: **Revised to N4-040469**

⇓ **REVISED** ⇓

N4-040469 **Clarification of the uses of SIP URIs for Public User ID; Lucent**
CR: **23.003-086r3 Rel-6**
Discussion:
Status: **Revised to N4-040472**

⇓ **REVISED** ⇓

N4-040472 **Clarification of the uses of SIP URIs for Public User ID; Lucent**
CR: **23.003-086r4 Rel-6**
Discussion:
Status: **Agreed**

N4-040380 **AAA URI syntax; Nokia**
Proposal: The CN4 participants are invited to review the new Internet Draft and to give possible comments I the IETF's AAA mailing list.

And because the new AAA URI Internet Draft updates the DiameterURI syntax and semantics, the CN4 has to agree which definitions of the AAA URI the Cx/Dx and Sh/Dh specifications have to support, in order to guarantee the interoperability of implementations. Both rel-5 and rel-6 have to be considered.

Discussion: Nokia: We should wait IETF draft and comment if needed. CN4 have to make some decision after RFC is published because then there are 2 URI available and we have to decide which one (or both) we will support in the future.
CN4 delegates are expected to make comments on this on the IETF exploder.
Implication on interoperability needs to be checked.
Status: **Noted**

N4-040384 29.230 v0.1.0, Diameter applications; 3GPP specific codes and identifiers; Nokia
Discussion: CN4 secretary will be contact between IANA and 3GPP in application identifiers issue.
Status: **Revised to N4-040454**

⇓ **REVISED** ⇓

N4-040454 29.230 v0.2.0, Diameter applications; 3GPP specific codes and identifiers; Nokia
Discussion: France Telecom: The clarification text at the end of chapter A.1 is needed: “According to RFC 3588 the creation of a new application should be avoided if at all possible and therefore it is recommended to use the existing identifiers whenever possible.”
Ericsson: Grouped and enumerated AVPs sould have a reference to all TSs that make use of it since the same AVP may be different (add/remove sub-AVPs or add new values for Enumerated AVPs) in the different applications. Kalle accepted the comment for enumerated AVPs but not for grouped AVPs. This should be covered in the minutes, something like: "Enumerated AVPs should reference in Table 7.1 all TSs making use of it to avoid overlapping of the enumerated AVP values between the different applications."

Status: **Revised to N4-040465**

⇓ **REVISED** ⇓

N4-040465 29.230 v0.3.0, Diameter applications; 3GPP specific codes and identifiers; Nokia
Discussion:
Status: **Agreed by CN4**

N4-040457 LS on Assignment of the Diameter codes and identifiers; Nokia
Discussion: Small modification was made in Action part.
Status: **Revised to N4-040466**

⇓ **REVISED** ⇓

N4-040466 LS on Assignment of the Diameter codes and identifiers; Nokia
Discussion:
Status: **Agreed**

N4-040385 Application version control in Diameter interfaces; Nokia
Status: **Noted**

N4-040393 DISC 29.234 - Rel-6; Rel-6; Discussion paper on Diameter-based application version control; Ericsson, Nortel Networks
Status: **Noted**

Discussion on N4-040385 and N4-040393:
Ericsson will submit CRs based on new AVP on CN4 email explorer.
CN4 agreed that Nokia and Ericsson CRs will be discussed on parallel and decision on used method will be chosen.
The solution shall show also if relay agents/redirects are involved.

N4-040386 Application version control; Nokia
CR: 29.229-034 Rel-6

Discussion:

Status: **Postponed to CN4#23**

N4-040387 **Application version control; Nokia**

CR: **29.229-033 Rel-6**

Discussion:

Status: **Postponed to CN4#23**

N4-040388 **Application version control; Nokia**

CR: **29.329-033 Rel-6**

Discussion:

Status: **Postponed to CN4#23**

5.3.1 HSS – SIP CSCF (Cx) & SLF - CSCF (Dx) interfaces

N4-040378 **Downloading the user profile based on User-Data-Request-Type; Lucent**

CR: **29.228-092 Rel-5**

Discussion: Nortel: More clarification is needed and they do not see this is enough to agree this topic.

It was agreed that changes are necessary, but more clarifications is needed. CR is used as a starting point.

Further discussion togther with N4-040382 resulted in the need to incorporate some of this CR into a resultant N4-040455.. Other parts are postponed.

Status: **Postponed**

N4-040379 **Downloading the user profile based on User-Data-Request-Type; Lucent**

CR: **29.228-093 Rel-6**

Discussion:

Status: **Postponed**

N4-040434 **Identifying the Registered and Unregistered part of the User Profile; Nortel Networks**

Proposal: In general, having only the option of downloading the complete profile would make the specs clearer in the aspects related to profile management, would reduce the error scenarios and the chance of interoperability problems, and would solve the two problems identified in the discussion above. Nortel proposes to adopt this approach.
Therefore, to solve the two problems initially identified, CN4 only needs to determine the best mechanism for identifying the registered and unregistered parts of a downloaded complete profile.

Discussion:

Status: **Noted**

N4-040381 **User profile in Cx; Nokia**

Proposal: Because the HSS indicates the implicitly registered public identity set to the S-CSCF in SAA message as described in chapter 3.2, the same approach can be used in the PPR too, that is, the PPR contains only the public identities (with the associated service profiles) of a single implicitly registered public identity set. For example, if the SP3 in Figure 1 is updated in the HSS, the HSS shall send a PPR with the User-Data AVP, which contains the IMPI1 + [SP3(IMPU4+ relevant iFC and Core Network Services Authorization information) + SP2(IMPU3+relevant iFC and Core Network Services Authorization information)].
The advantages of the solution are:

- the coherence between SAA and PPR.
- it allows adding the public identities into the existing implicitly registered public identity sets without interrupting the end user service, because the S-CSCF is now able to detect the updated list of public identities belonging to that particular implicitly registered public identity set. It can also notify the P-CSCF & UE immediately about the new public identity.

The drawbacks of the solution are:

- it requires multiple PPRs to be sent to the S-CSCF if a service profile associated to different implicitly registered public identity sets is updated in the HSS.

Discussion: Nokia: There are no problems between public and shared identity in Rel-6 at this proposal.

Status: **Postponed**

N4-040382 **Content of the user profile; Nokia**

CR: **29.228-094 Rel-5**

Discussion: France Telecom: Do we have requirements to use more than one public identity in implicitly registered public identity set?

Nokia: This is already possible even without this CR. It is clarified the text which describes that SAA and PPR messages shall contain only the public identities with the associated service profiles of the implicitly registered public identity set.

Ericsson: This issue is related to Nortel and Lucent proposals and we should handle all the proposed changes during same time.

Meeting agreed that Lucent CR (N4-040378) will be combined with this CR. Changes were made during Wednesday afternoon drafting session.

Status: **Revised to N4-040455**

⇓ **REVISED** ⇓

N4-040455 **Content of the user profile; Nokia**

CR: **29.228-094r1 Rel-5**

Discussion:

Status: **Agreed**

N4-040383 **Content of the user profile; Nokia**

CR: **29.228-095 Rel-6**

Discussion:

Status: **Revised to N4-040456**

⇓ **REVISED** ⇓

N4-040456 **Content of the user profile; Nokia**

CR: **29.228-095r1 Rel-6**

Discussion:

Status: **Agreed**

⇓ **REVISED** ⇓

N4-040438 **Update of the charging addresses from HSS; Ericsson**

CR: **29.228-096r1 Rel-5**

Discussion: Ericsson: It has been included the charging information also in the PPR/PPA procedure. So the HSS will initiate a push to the S-CSCF whenever the charging information changes.

Status: **Revised to N4-040442**

⇓ **REVISED** ⇓

N4-040442 **Update of the charging addresses from HSS; Ericsson**

CR: **29.228-096r2 Rel-5**

Discussion:

Status: **Agreed without presentation**

N4-040440 **Update of the charging addresses from HSS; Ericsson**
CR: **29.228-097r1 Rel-6**
Discussion: Category A; mirror CR
Status: **Revised to N4-040443**

⇓ **REVISED** ⇓

N4-040443 **Update of the charging addresses from HSS; Ericsson**
CR: **29.228-097r2 Rel-6**
Discussion: Category A; mirror CR
Status: **Agreed without presentation**

N4-040439 **Update of the charging addresses from HSS; Ericsson**
CR: **29.229-036r1 Rel-5**
Discussion:
Status: **Agreed**

N4-040441 **Update of the charging addresses from HSS; Ericsson**
CR: **29.229-037r1 Rel-6**
Discussion: Category A; mirror CR
Status: **Agreed**

5.3.2 HSS – SIP AS (Sh) interface

N4-040428 **LS on IMS local services; SA2**
Action : **1.** SA2 kindly asks CN1 and CN4 to co-operate in the completion of the stage 3 specification of IMS local services in Release 6.

2. SA2 kindly asks CN4 to investigate whether the Sh reference point as defined in Release 5 provides the possibility for an AS to determine the VPLMN for a user from the HSS.
Discussion: Response LS (N4-040444) to SA2 only on question 2.
Status: **Noted**

N4-040444 **Reply LS on IMS local services; Siemens**
Discussion: to: SA2
Status: **Noted**

N4-040432 **Correction of reference for definition of MSISDN; Nortel Networks**
CR: **29.329-034 Rel-5**
Discussion: Siemens: Reference is not need. We should have implicit explanation in 3GPP TS 29.329
Status: **Noted**

N4-040433 **Correction of reference for definition of MSISDN; Nortel Networks**
CR: **29.329-035 Rel-6**
Discussion:
Status: **Noted**

N4-040435 **Correction to description of Data Reference AVP value 10; Nortel Networks**
CR: **29.329-036 Rel-5**
Discussion:
Status: **Agreed**

N4-040436 **Correction of reference for definition of MSISDN; Nortel Networks**
CR: **29.329-037 Rel-6**
Discussion:
Status: **Agreed**

N4-040445 **Correction of the cardinality of the class PublicIdentifiers; France Telecom**
CR: **29.328-078 Rel-5**
Discussion:
Status: **Postponed to CN4#23**

N4-040446 **Correction of the cardinality of the class PublicIdentifiers; France Telecom**
CR: **29.328-079 Rel-6**
Discussion:
Status: **Postponed to CN4#23**

N4-040447 **Subscrption to notifications for Location and User state; France Telecom**
CR: **29.328-080 Rel-5**
Discussion: Siemens, Ericsson, Nokia: There are no requirements for these changes in stage 2.
Status: **Withdrawn**

N4-040448 **Subscrption to notifications for Location and User state; France Telecom**
CR: **29.328-081 Rel-6**
Discussion:
Status: **Withdrawn**

N4-040449 **Adding MSISDN as user identity in the Sh procedures; France Telecom**
CR: **29.328-082 Rel-5**
Discussion: Lucent: Encoding and decoding is not defined anywhere in specification. Reference is needed where MSISDN is defined.

NEC: HSS never communicate with circuit switched network. Definition of Public identity is enough.

CN4 agreed that clarification is needed on use of MSISDN. The current CR is not complete.

Vodafone: A new CR is needed which removes MSISDN. Only public user identity is used. MSISDN should be always converted into public user identity format.

Status: **Withdrawn**

N4-040450 **Adding MSISDN as user identity in the Sh procedures; France Telecom**
CR: **29.328-083 Rel-6**
Discussion:
Status: **Withdrawn**

N4-040451 **Mapping to Diameter AVP for Requested Identity Set; France Telecom**
CR: **29.328-084 Rel-5**
Discussion:
Status: **Revised to N4-040467**

⇓ **REVISED** ⇓

N4-040467 **Mapping to Diameter AVP for Requested Identity Set; France Telecom**
CR: **29.328-084r1 Rel-5**

Discussion:
Status: **Postponed to CN4#23**

N4-040452 **Mapping to Diameter AVP for Requested Identity Set; France Telecom**
CR: **29.328-085 Rel-6**
Discussion:
Status: **Revised to N4-040468**

⇓ **REVISED** ⇓

N4-040468 **Mapping to Diameter AVP for Requested Identity Set; France Telecom**
CR: **29.328-085r1 Rel-6**
Discussion:
Status: **Postponed to CN4#23**

N4-040453 **Correction of the description of the user identity to HSS resolution mechanism; France Telecom**
CR: **29.328-086 Rel-6**
Discussion:
Status: **Postponed to CN4#23**

6 AOB

7 Check of approved output documents

N4-040376 **Output documents; Chairman**
Comments:
Status: **APPROVED**

8 Closing of the meeting (16:30 Tuesday)

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved

Tdoc	Tdoc Title	LS to	LS cc	LS Attachment
N4-040473	WLAN charging	SA5, SA1	SA2	
N4-040466	LS on Assignment of the Diameter codes and identifiers	SA5, CN3	CN, SA	N4-040465
N4-040444	Response LS on IMS local services	SA2		
N4-040487	Provisioning an interface for physical storage of GUP components.	SA1, SA2		
N4-040488	Application laver versus transport layer security for GUP	SA3		

A.2 New TSs /TRs Approved (to be placed under change control)

A.3 New / Revised Work Items Approved

A.4 Approved CRs

Tdoc	Title	Source
N4-040435	CR 29.329 036 Rel-; CR 29.329 036 R; Correction to description of Data Reference AVP value 10	Nortel Networks
N4-040436	CR 29.329 037 Rel-5; CR 29.329 037 Rel-5; Correction to description of Data Reference AVP value 10	Nortel Networks
N4-040439	CR 29.229 036 Rel-5; Update of the charging addresses from HSS	Ericsson
N4-040441	CR 29.229 037 Rel-6; Update of the charging addresses from HSS	Ericsson
N4-040442	CR 29.228 096 Rel5; Update of the charging addresses from HSS	Ericsson
N4-040443	CR 29.228 097 Rel-6; Update of the charging addresses from HSS	Ericsson
N4-040455	CR 29.228 094 Rel-5; Content of the user profile	Nokia
N4-040456	CR 29.228 095 Rel-6; Content of the user profile	Nokia
N4-040472	CR 23.003 086 r1 Rel-6; Clarification of the uses of SIP URIs for Public User ID	Lucent Technologies

ANNEX B Tdoc List with Status on ZIP-file

CN4#22bis_Tdoc_List.zip

ANNEX C. TSG CN meeting Participants List

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9 History

Document History	
up to 20th April 2004	DRAFT v0.0.1, 002, 003 distributed in meeting.
23rd April, 2004	DRAFT v1.0.0 placed to meeting server and dispatched to the TSG-CN mail exploder for comments. Comments to be addressed to: Mr. Kimmo Kymäläinen, 3GPP TSG CN4 MCC Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 38 E-mail: mailto:kimmo.kymalainen@ETSI.org A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report. **E-mail comments back by 30th April 2004**
5th May 2004	DRAFT v2.0.0 (with rev marks placed to FTP server)
May 2004	Final v2.1.0 approved at TSG CN4#22 Meeting– Made version 3.0.0 and placed to server as the official meeting report.