Third Generation Partnership Project

Draft MEETING REPORT v1.0.0

3GPP TSG-CN4#24

Sophia Antipolis, FRANCE.
16th - 20th August, 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
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1   Agenda

Mr. Kimmo Kymäläinen of ETSI MCC welcomed the delegates to Sophia Antipolis 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).

Proposed agenda **N4-040863 APPROVED**

1.1   IPR Call

The attention of the delegates to the meeting of this Technical Specification Group was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.
The delegates were asked to take note that they were thereby invited:

- to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.
- to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (http://webapp.etsi.org/Ipr/).

0861   Preliminary agenda for CN4 #24, CN4 chairman
Discussion:
Status: **Revised to N4-040862**

0862   Detailed agenda & time plan for CN4 #24: status at document deadline, CN4 chairman
Discussion:
Status: **Revised to N4-040863**

0863   Detailed agenda & time plan for CN4 #24: status on eve of meeting, CN4 chairman
Discussion:
Status: **Agreed with small changes**

2   Proposed document allocation

0864   Proposed allocation of documents to agenda items for CN4 #24: status at document deadline, CN4 chairman
Discussion:
Status: **Revised to N4-040865**

0865   Proposed allocation of documents to agenda items for CN4 #24 status on eve of meeting, CN4 chairman
Discussion:
Status: **Agreed**

3   Reports

0866   Report Summary report from CN #24 & SA #24, Seoul, KOREA, CN4 chairman
Discussion:
Status: **Noted**

0868   Report CN4#23 meeting report Zagreb, CROATIA, MCC
Discussion:
Status: **APPROVED**

0869   Report CN4#23bis meeting report Helsinki, FINLAND, MCC
Discussion:
Status: **APPROVED**

4   Liaison Statements

0891   Input LS; LS on RIM routing addressing between GERAN and UTRAN, GERAN2
Discussion:
Status: **Postponed under agenda item 7.10**

0899   Input LS: Rel-6; LS on 'Generic Routing of RIM/NACC Information', RAN3
Discussion:
Status: **Postponed under agenda item 7.10**

0892   Input LS: Re; Reply to LS on mapping of cause codes for no radio resources available and for load higher in target cell, GERAN
Discussion:
Status: **Noted**

0893   Input LS: Rel-6; LS on transparent container field for MBMS, CN1
Discussion:
Status: **Postponed to 7.11**

0908   Input LS: Rel-6; Reply to LS on transparent container field for MBMS, SA2
Discussion:
Status: **Postponed to 7.11**

0894   Input LS: Rel-6; Reply LS on the flexibility of filtering of register request, CN1
Discussion:
Status: **Postponed to 7.3**

0895   Input LS: LS on CAMEL open item list, CN2
Discussion:
                 Open issue list will be check during Camel session if documents solve the whole issue or only partly.
Status: **Postponed to CAMEL session**

0896   Input LS: Re; LS on Re-use of RADIUS attributes within the 3gpp specific vendor id, CN3
Discussion:
Status: **Postponed to 7.4**

0897   Input LS: Rel-6; Reply LS on Harmonisation of AMR Configurations, RAN2
Discussion:
Status: **Noted**

0972   Input LS: Rel-6; Reply LS on Harmonisation of AMR Configurations, T1
Discussion:

Status: Noted

0898 Input LS: Rel-6; Reply LS on Clarification of TMGI format, RAN2
Discussion:
Status: Postponed to 7.11

0900 Input LS: Rel-6; LS on Trace Issues, RAN3
Discussion:
Status: Postponed to 7.7

0901 Input LS: Rel-6; LS on mapping of cause codes for no radio resources available and for load higher in target cell, RAN3
Discussion:

Ericsson don't see need to changes in current specification. Ericsson proposed CN4 should send LS to related WGs that current Mapping is correct and clear enough.
Proposal was agreed by the meeting.
LS to GERAN and RAN3; N4-041115
RAN3 has decided to introduce the New Cause coding. CN4 have to introduce changes in TS 29.010.

Status: Noted

1115 Output LS: Rel-6; LS on mapping of cause codes for no radio resources available and for load higher in target cell, Ericsson
Discussion:
Status: Approved

0902 Input LS; LS on Evaluation of MOCN redirect alternatives, RAN3
Discussion:
Status: Noted

0903 Input LS; SA1 Comments on Physical Storage of GUP components, SA1
Discussion:
Status: Postponed to 7.2

0904 Input LS: LS on WLAN Charging Identifiers, SA1
Discussion:
Status: Postponed to 7.1

0905 Input LS: Rel-6; LS on the flexibility of filtering of register request, SA2
Discussion:
Status: Postponed to 7.3

0906 Input LS: Rel-6; Reply LS on LS on change in MBMS Multicast Service Deactivation Procedure, SA2
Discussion:
Status: Postponed to 7.11

0907 Input LS: Rel-6; Response to RAN3 Multicast and Broadcast service info to the RAN, SA2
Discussion:
Status: Postponed to 7.11

0909 Input LS: -; Reply LS on the Nature of LCS, SA2

Discussion:
Status: **Noted**

0910   Input LS: Re; Status report of LCS standardisation in 3GPP SA2, SA2
Discussion:
Status: **Noted**

0911   Input LS: Rel-6; Reply LS to N4-040247 (S3-040208) on use of authentication re-attempt IE , SA3
Discussion:

> NEC: CR is needed to correct possible problems on specification 29.002. NEC will draft CR in the future. 23.012 and 23.018 do not need corrections in this topic.

Status: **Noted**

0912   Input LS: Rel-6; Liaison Statement on VGCS and VBS security, SA3
Discussion:
Status: **Noted**

0913   Input LS: Rel-6; Reply LS on Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0, SA3
Discussion:
Status: **Postponed to 7.1**

0914   Input LS: Rel-6; LS on 'SMS Fraud countermeasures', SA3
Discussion:
Status: **Postponed to 7.15.4**

0915   Input LS: Rel-6; Reply LS on Requirement for presence of the GAA-Application-Type AVP, SA3
Discussion:
Status: **Postponed to 7.6**

0916   Input LS: Rel-6; LS on Binding Scenario Information to Mutual EAP Authentication, SA3
Discussion:
Status: **Postponed to 7.1**

0917   Input LS: Rel-6; LS on GUP Security Progress in SA3, SA3
Discussion:
Status: **Postponed to 7.2**

0918   Input LS: Rel-6; LS on Forwards compatibility to TLS based access security in IMS, SA3
Discussion:
Status: **Postponed to 7.3**

0919   Input LS: Rel-6; LS on Assignment of the Diameter codes and identifiers, SA5
Discussion:
Status: **Postponed to 7.4**

0922   Input LS: Rel-; LS on progress of MBMS security, SA3
Discussion:
Status: **Postponed to 7.11**

1222 Input LS: Reply LS on the flexibility of filtering of register request, CN1
Discussion:
Status: **Noted**

1195 Input LS: LS on the Request of Gmb Diameter code values, CN1
Discussion:
            Action point to MCC. Request AVP codes
Status: **Noted**

1211 Input LS: LS on Mapping of cause codes between BSSMAP and RANAP, RAN3
Discussion:
            Vodafone CR N4-041196 covers the first action point.
            The second action point will be covered with separate CR in CN4#25.
Status: **Noted**

5   WID

0947 ; Protocol impact from providing IMS services via fixed broadband, Siemens
Discussion: **NEC**: Why "all IP Feasibility study" in section 2 is involved.
            Lucent: Maybe 29.228 should be added on " affected existing specifications".
            NEC: What MRP means?
                France Telecom: OP = Organization Partners and MRP = Marketing
                Representative Partners.
            CN4 chairman: This will be Rel-7 issue.
Status: **Endorsed by CN4**

0968 WID; Protocol definition for automatic distribution of MAP security keys, Vodafone
Background:
            An identified security weakness in 2G systems is the absence of security in SS7 networks.
            This was formerly perceived not to be a problem, since this network was the province of a
            small number of large institutions. This is no longer the case, and so there is now a need
            for security precautions. Particularly, SMS fraud is becoming widely prevalent and
            fraudulent traffic, leading to customer dissatisfaction and financial losses has been
            encountered by several network operators. MAP payload encryption is an important
            element to combat it.
            To enable MAPSec to function correctly, it is necessary for an automatic system for the
            distribution of Security keys to be in place. This leads to the need for the completion of
            the work on the Ze interface.
            Four supporting companies are: Vodafone, T-Mobile, Siemens, 3
Discussion:
            NEC: What is a connection between NDS and MAPSec?
                Vodafone: To enable MAPSec to function correctly, it is necessary for an
                automatic system for the distribution of Security keys to be in place.
            Ericsson: There could be other solutions to solve problem in MAP level. Ericsson don't
            see need for this WI at least in Rel-6.
            Vodafone: We still believe urgent corrections (Rel-6) are needed to solve problems in
            network.
Status: **Revised to N4-041119**

1119 WID; Protocol definition for automatic distribution of MAP security keys, Vodafone
Background:

Discussion:

LS will be sent to GSMA IREQ

CN4 need to ask for an exception if this needs to be in Release 6. Providing TS 29.200 for the December plenary might be a timing problem.

Status:　　　**Noted**

1002　WID Rel-6; Trace Management, stage 3, network, update, Nokia

Discussion:

Status:　　　**Revised to N4-041224**

1223　WID Rel-6; Trace Management, stage 3, network, update, Nokia

Discussion:

Status:　　　**Revised to N4-041224**

1069　WID Rel-6; MBMS WID Update, Ericsson

Discussion:

Status:　　　**Endorsed by CN4**

1076　WID; Enhancements of VGCS in public networks for communication of public authority officials, Siemens

Background:

It is envisaged, that voice group call services (VGCS) can in future be used in public networks for communication of public authority officials (police, firebrigade ..). To meet the particular requirements for these purposes some additional functionality (e.g. encryption, emergency handling, SMS support) needs to be supported by VGCS services.

Discussion:

Supported companies are: Siemens, Vodafone, T-Mobile and Ericsson.

Status:　　　**Endorsed by CN4**

1077　Revision of Network Sharing stage 3, TeliaSonera

Discussion:

Status:　　　**Endorsed by CN4**

6　Release 7

7　Release 6

7.1　WLAN

0904　Input LS: Rel-6; LS on WLAN Charging Identifiers, SA1

Discussion:

Status:　　　**Noted**

0913　Input LS: Rel-6; Reply LS on Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0, SA3

Discussion:　　**Ericsson**: LS was already handled in CN4#23bis. (N4-040810).

Status:　　　**Noted**

0916　Input LS: Rel-6; LS on Binding Scenario Information to Mutual EAP Authentication, SA3

Discussion:

Status: Noted

1172   Input LS: Rel-6; LS on Supporting RADIUS/DIAMETER Protocol at Wd Interface, SA2
Discussion:
Status: Noted

1171   Output LS: Rel-6; LS on Supporting RADIUS/DIAMETER Protocol at Wd Interface, Vodafone
Discussion:
Status: Revised to N4-041199

1199   Output LS: Rel-6; LS on Supporting RADIUS/DIAMETER Protocol at Wd Interface, Vodafone
Discussion:
Status: Revised to N4-041201

1201   Output LS: Rel-6; LS on Supporting RADIUS/DIAMETER Protocol at Wd Interface, Vodafone
Discussion:
Status: Approved

0945   DISC; DISC on Authentication, Authorisation and Accounting protocols used in I-WLAN, Vodafone, T-Mobile
Proposal:

Specify within 3GPP that the 3GPP AAA Proxy can proxy RADIUS on to the 3GPP AAA Server and specify how this shall be done. This should be an option that operators can select to use instead of a having a protocol translation function in the 3GPP AAA Proxy.

Although options in 3GPP specifications are generally considered a bad idea, the source companies of this discussion document believe that in this particular case, to align 3GPP with what is being used in the real world today, this option should be allowed and standardised to prevent 3GPP operators having to develop proprietary methods of providing WLAN roaming with 3GPP operators who do not use a protocol translation function.

Discussion:
Status: Noted

0977   DISC 29.234 - Rel-6; Interworking with WLAN ANs that support only RADIUS, Vodafone, China Mobile, Huawei
Discussion:

Lucent: Common agreement is needed that RADIUS is an option on Wd-interface.
CN4 is favour to limit protocols in interfaces. Wd-interface is an exceptional case which is requested by operators.
Ericsson: CN4 had the basic principle that interfaces were based on Diameter on WLAN.
Lucent: We should limit scenario 3 for WLAN network which support on diameter based protocol only.
In principle vendors object 2 protocols in same interface, but if operators see this useful vendors can accept RADIUS in Wd-interface.
CN4 agreed to RADIUS as an option in Wd-interface.
CN4 meeting also **agreed** that the same approach will not be used with any other WLAN-interface.

The Wd reference point shall use only a single AAA protocol per user session. RADIUS or Diameter based protocols shall be used, respective of which protocol the WLAN AN is using.

Status: **Revised to N4-041198**

1198 DISC 29.234 - Rel-6; Interworking with WLAN ANs that support only RADIUS, Vodafone, China Mobile, Huawei
Discussion:
Status: **Agreed**

0979 DISC 29.234; Accounting Procedures on the Wa interface, Nokia
Discussion:
> **Vodafone** would not like to see duplication of specification that's why Informative annex should be removed.

Status: **Revised to N4-041139**

1139 DISC 29.234; Accounting Procedures on the Wa interface, Nokia
Discussion: Will be added in v1.6.0
Status: **Agreed**

0980 DISC 29.234 Accounting Procedures on the Wd interface, Nokia
Discussion:
Status: **Agreed**

0981 DISC 29.234 Definition for the Routing Policy AVP, Nokia
Discussion: Error handling will be handled in different document.
> **Vodafone**:64 kbit should be 64 bits.

Status: **Revised to N4-041140**

1140 DISC 29.234 Definition for the Routing Policy AVP, Nokia
Discussion:
Status: **Agreed**

0982 DISC 29.234 Additional Radius Attributes and Diameter AVPs on the Wa & Wd Interface, Nokia
Discussion: **Lucent**: On IEFT RFC 3579, draft should be removed.
All the Message Authentication fields have to be changed as Mandatory.
Status: **Revised to N4-041141**

1141 DISC 29.234 Additional Radius Attributes and Diameter AVPs on the Wa & Wd Interface, Nokia
Discussion:
Status: **Agreed**

0983 DISC 29.234 Policy Download to the WAG on the Wg Interface, Nokia
Discussion: **Nokia**: RADIUS should be restricted Wd-interface scenario 2 only.
> Proposal was agreed by meeting
Status: **Revised to N4-041142**

1142 DISC 29.234 Policy Download to the WAG on the Wg Interface, Nokia
Discussion:
Status: **Agreed**

0984   DISC 29.234 WAG initiated Routing policy cancellation Notification/Response using STR/STA, Nokia
Discussion:
Status: **Agreed**

0985   DISC 29.234 Rel-6; 3GPP AAA Server/Proxy Routing policy cancellation Request/Response using ASR/ASA, Nokia
Discussion: Editorial corrections were made.
Status: **Revised to N4-041143**

1143   DISC 29.234 Rel-6; 3GPP AAA Server/Proxy Routing policy cancellation Request/Response using ASR/ASA, Nokia
Discussion:
Status: **Agreed**

0986   DISC 29.234 - Rel-6; Wn interface description, Nokia
Discussion:
Status: **Agreed**

0991   DISC 29.234 - Rel-6; Discussion on the protocol implementation of Wd reference pint, China Mobile, Huawei
Discussion:
Status: **Noted**

0992   DISC 29.234 - Rel-6; Analysis on RADIUS fulfilling the requirements for 3GPP-WAN interworking system, China Mobile, Huawei
Discussion:
Status: **Noted**

0999   DISC 29.234 - Re; TS 29.234, Wm reference point AVPs, Ericsson
Discussion: This will be Withdrawn if N4-041144 is approved.
Status: **Withdrawn**

1000   CR 23.003 091 Rel-6; Introduction of re-authentication identity, Ericsson
Discussion:

> **Action point to MCC: The reference [xz] was already added in Nokia CR which was approved inCN4#23bis. This have to be taken account during implementation after CN#25.**

Status: **Revised to N4-041145**

1145   CR 23.003 091r1 Rel-6; Introduction of re-authentication identity, Ericsson
Discussion: A new section 14.x will be added at the end of section 14.
Status: **Agreed**

1001   DISC 29.234 - Rel-6; TS 29.234, Correction on Visited-Network-Identifier AVP, Ericsson
Discussion:
Status: **Agreed**

1092   DISC 29.234: Editorial Corrections to 29.234, NOKIA
Discussion:
Status: **Agreed**

1114   DISC 29.234 Rel-6; Re-organization of the AVPs, Ericsson
Discussion:
Status: **Revised to N4-041144**

1173   Input LS: Rel-6; Reply LS on On-line charging Disconnection Procedure, SA2
Discussion: **Ericsson** will draft CR (in CN#25) which cover changes.
Status: **Noted**

1170   Input LS: Rel-6; LS on mapping tunnels for WLAN 3GPP IP access and W-APNs, SA2
Discussion: **Nokia**: No effects on CN4 specifications.
Status: **Noted**

1144   DISC 29.234 Rel-6; Re-organization of the AVPs, Ericsson
Discussion:
Status: **Agreed**

1200   TS 29.234 Rel-6; v1.6.0, Nokia
Discussion: **Open issues**:

- Dependencies on acceptance in IETF of the following drafts: Diameter EAP, NASREQ, GEOPRIV, DIAMETER CREDIT CONTROL
- Translation of Radius Ies defined in GEOPRIV to Diameter attributes
- Whether a new Diameter application is required for authentication/authorization on Wa/Wd
- ABNF missing on several interfaces
- Online charging description missing (This might be also in Rel-7)

Nokia: The specification is more than 90% ready.
CN4 decided to send specification for approval in CN#25.
Nokia will provide information about scenario 2 and 3.
Status: **Revised to N4-041221**

1221   TS 29.234 Rel-6; v1.7.0, Nokia
Discussion:
        If approved on email reflector CN4 will send specification for approval in CN#25.
Status: **Email approval**

7.2   GUP

0903   Input LS: Rel-6; SA1 Comments on Physical Storage of GUP components, SA1
Discussion: This LS was presented in CN4#23bis.
Status: **Noted**

0917   Input LS: Rel-6; LS on GUP Security Progress in SA3, SA3
Discussion:
Status: **Noted**

0973   DISC : 29.240. Security, Ericsson
Discussion:
        Lucent propose to use only Liberty Alliance documentation with references on the Rp reference point.

Lucent: would like to make sure that CN4 understand what we are doing when we reference to Liberty Alliance security documentation.

> **Ericsson**: SA3 has the knowledge of security and they are asking CN4 add this in documentation. We have to basis our documentation the requirements from SA3.

Lucent: CN4 should clearly define in which case we are referencing Liberty Alliance security documentation. Information from SA3 might be needed on Rp- and Rg-interfaces.

Lucent: There are nothing problems in proposed text but it doesn't offer any valid information.

LS to SA3 (N4-041148)

Orange: All the security mechanism are allowed by Liberty Alliance so it might be possible that SA3 can't give more information about the solution to use.

Status:　　　**Revised to N4-041147**

1147　DISC : 29.240. Security, Ericsson
Discussion:
Status:　　　**Agreed**

1148　Output LS : LS on Request for end to end example showing how the Liberty Alliance security framework fits the 3GPP GUP security requirements, Lucent
Discussion:
Status:　　　**Revised to N4-041202**

1202　Output LS : LS on Request for end to end example showing how the Liberty Alliance security framework fits the 3GPP GUP security requirements, Lucent
Discussion:
Status:　　　**Approved**

0978　DISC HSS data for GUP, Ericsson
Discussion:
Status:　　　**Withdrawn**

1003　INFO - - Rel-6; Open issues in 29.240, Nokia
Discussion:

Major outstanding issues on GUP:

- bandwidth saving and performance solution, could be the compression method provided by ITU converting XML schema to ASN.1
  Ericsson: This will be probably moved to Rel-7. The completion date of TS 29.240 is not affected.
- XML schema definition (infrastructure and userprofile components)
- character set(s) supported by XML
- detailed security solution(s)
- how physical storage location, access control and billing are implemented to GUP stage 3
- how and when to refer 23.241 in 29.240
  Lucent proposed to delete 23.241 specification. The existence of this doesn't make sense because in TS 29.240 we are referencing Liberty Alliance.

3GPP TS 29.240 could be possible to send for information to CN#26 in December.

CN4 believe expected completion date March 2005 (CN#27)

Lucent: We are already solved the main problems. The discussion is going quite technical at the moment. The workshop is needed to solve all the technical issue. XML-schema experts from different companies should solve the problems together in extra meeting or

telephone conference. That is the approach how the technical problems can be agreed in fast timescale.

Lucent proposed to delete 23.241 specification. The existence of it doesn't mean anything or bring additional value on GUP.

Status: Noted

1004   DISC - - Rel-6; TS 29.240, Proposal for moving text between chapters, Nokia
Discussion:

Lucent: How much of the proposed changes are different than Liberty Alliance specification. Is it possible to just reference to Liberty Alliance documentation.

Nokia: In our study it's not possible to reference directly to Liberty Alliance documentation. We have to create our own CN4 based procedures.

Lucent: We have quite good knowledge how do handle data management, but security management is still open.

After discussion CN4 meeting agreed to add proposed document in the new version of GUP specification.

Status: **Agreed**

1150   DISC; The GUP architecture principles, Lucent
Discussion: Document will be discussed on email explorer.
Status: Noted

1149   TS Rel-6; TS 29.240, v0.5.0, Nokia
Discussion: Document will be used as basis for future work.
Status: **Approved**

7.3   Subscriber data handling for the IMS

0918   Input LS: Rel-6; LS on Forwards compatibility to TLS based access security in IMS, SA3
Discussion: **Vodafone**: Do we have any description in current CN4 specifications about TLS?
Vodafone: CN4 should introduce changes in specifications after CRs are approved in SA3.
Status: Noted

0881   CR 29.228 118 Re; XML versioning, Nokia
Discussion:

Nokia: When CN4 make changes in XML-schema CN4 have to do them backwards compatibility way, otherwise we a new feature is needed.

Vodafone: Reference have to be added in annex E.

Status: **Revised to N4-041120**

1120   CR 29.228 118r1 Re; XML versioning, Nokia
Discussion:
Status: **Agreed**

0882   CR 29.328 088 Rel-6; XML versioning, Nokia
Discussion: Reference have to be added in annex E.
Status: **Revised to N4-041121**

1121   CR 29.328 088r1 Rel-6; XML versioning, Nokia
Discussion:
Status: **Agreed**

0905 Input LS: Rel-6; LS on the flexibility of filtering of register request, SA2
Discussion:
Status: Noted

0894 Input LS: Rel-6; Reply LS on the flexibility of filtering of register request, CN1
Discussion:
Status: Noted

1111 LS OUT: Reply LS on the flexibility of filtering of register request, RIM
Discussion:
Status: Approved

0970 DISC; Triggering all/initial REGISTER messages, Nokia
Discussion:
Status: Withdrawn

0885 CR 29.228 121 Rel-6; Triggering initial REGISTER messages, Nokia
Discussion:
Status: Revised to N4-041093

1093 CR 29.228 121r1 Rel-6; Triggering initial REGISTER messages, Nokia
Discussion:
Status: Revised to N4-041116

1116 CR 29.228 121r2 Rel-6; Triggering initial REGISTER messages, Nokia
Discussion:
Status: Agreed

0971 CR 29.229 059 Re; Triggering initial REGISTER messages, Nokia
Discussion:
Status: Revised to N4-041094

1094 CR 29.229 059r1 Re; Triggering initial REGISTER messages, Nokia
Discussion:
Status: Withdrawn

1075 CR 29.328 094- Rel-6; Triggering initial REGISTER messages, Nokia
Discussion:
Status: Revised to N4-041100

1100 CR 29.328 094r1 Rel-6; Triggering initial REGISTER messages, Nokia
Discussion:
Status: Agreed

1052 CR 29.228 127 Rel-6; Addition of Registered and Unregistered to Session Case enumeration, RIM, Fujitsu
Discussion:
Status: Withdrawn

1053 CR 29.328 093 Rel-6; Addition of Registered and Unregistered to Session Case enumeration, RIM, Fujitsu
Discussion:

Status: **Withdrawn**

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

0923 CR 29.228 122 Rel-6; Optimization of User Profile Download, Siemens
Discussion: **Vodafone**: Clarification on proposed text is needed.
Status: **Revised to N4-041122**

1122 CR 29.228 122r1 Rel-6; Optimization of User Profile Download, Siemens
Discussion:
Status: **Agreed**

0924 CR 29.229 056 Rel-6; Optimization of User Profile Download, Siemens
Discussion:
Status: **Agreed**

1112 CR 29.228 136 Rel-6; Addition of Registered and Unregistered to Session Case enumeration, RIM, Fujitsu
Discussion:
Status: **Withdrawn**

1113 CR 29.328 095 Rel-6; Addition of Registered and Unregistered to Session Case enumeration, RIM, Fujitsu
Discussion:
Status: **Withdrawn**

7.3.2 HSS – SIP AS (Sh) interface

7.4 Diameter Coordination

0896 Input LS: Re; LS on Re-use of RADIUS attributes within the 3gpp specific vendor id, CN3
Discussion:
Status: **Noted**

0919 Input LS: Rel-6; LS on Assignment of the Diameter codes and identifiers, SA5
Discussion:

> **Nokia**: What is the purpose related to Annex A.3/A.4?
> **Ericsson**: The reply is in LS N4-041110
>> "AVPs needs to be listed within each specification since it is needed a place where the AVP is defined and since each specification should contain a table to indicate the nature of the AVPs, i.e., the flags, types and encryption, as it is defined by IETF RFC 3588 and has been implemented within existing 3GPP Cx and Sh specifications (TS 29.229 and TS 29.239).
>> CN4 would like to clarify that TS 29.230 lists the codes assigned by either IANA or 3GPP to Diameter Application-Ids, Command Codes, AVPs and Experimental Result Codes, but does not define the meaning of such elements and should be done within the specification that applied for the code."

Status: **Noted**

1110 LS OUT:LS Response on LS on Assignment of the Diameter codes and identifiers, Ericsson
Discussion: **Lucent**: The second action point needs clarification.
Status: **Revised to N4-041123**

1123   LS OUT:LS Response on LS on Assignment of the Diameter codes and identifiers, Ericsson
Discussion:
Status: **Approved**

0974   DISC: Re-arrangement of table 7.1 in 29.230, Nortel Networks
Discussion: Interested companies shall draft CRs on related topic during the meeting.
Status: **Principle Agreed**

0989   CR 29.230 001 Rel-6; Correction of Charging application reference, Nokia
Discussion:
Status: **Agreed**

1070   CR 29.230 002 Rel-6; Correction of the Application-Id code, Ericsson
Discussion:
                Action point to editor: This have to be implemented before N4-040989.
Status: **Agreed**

1087   CR 29.230 004 Rel-6; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Revised to N4-041210**

1210   CR 29.230 004r1 Rel-6; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Agreed after email approval period**

1088   CR 29.329 050 Rel-5; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Revised to N4-041212**

1212   CR 29.329 050r1 Rel-5; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Agreed after email approval period**

1089   CR 29.329 051 Rel-6; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Revised to N4-041213**

1213   CR 29.329 051r1 Rel-6; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Agreed after email approval period**

1090   CR 29.229 062 Rel-5; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Revised to N4-041214**

1214   CR 29.229 062r1 Rel-5; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Agreed after email approval period**

1091   CR 29.229 063 Rel-6; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Revised to N4-041215**

1215   CR 29.229 063r1 Rel-6; Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion:
Status: **Agreed after email approval period**

1092   Output LS on Renumbering of 3GPP specific AVP codes, Nortel Networks
Discussion: LS will send to SA5 is related CRs are approved.
                   Action point to MCC: Correct title and attached document numbers
Status: **Approved**

7.5   Diameter version control

7.6   Subscriber certificates

0915   Input LS: Rel-6; Reply LS on Requirement for presence of the GAA-Application-Type AVP, SA3
Discussion:
Status: **Noted**

1005   DISC Rel-6; Updates from SA3 to TS 29.109, Nokia
Discussion:
Status: **Revised to N4-041117**

1117   DISC Rel-6; Updates from SA3 to TS 29.109, Nokia
Discussion:

> **Ericsson**: The name of commands for command codes should be same as used in Cx in section 4.1.
>> **Lucent**: We can maybe use similar name but we should use indication that we use parameter different.
>> **Nokia** would like to make specification more clear by re-naming commands.
>> **Siemens**: We could change command names of command codes more generic.
> After discussion meeting agreed to use command names which are already used in Cx-interface.
> **Discussion about 29.109**
> **Siemens**: Annex A should be Normative in specification 29.109.
> **Nokia**: XML-schema will be added to zip file in final version.
> **Nokia**: A table which reflect all the parameters will be added in Annex A. CR will be provided to CN4#25.
> **Siemens**: There is a misspelling in Annex B. It should be Normative instead of Formative.
> **Vodafone**: User format example is not inline with stage 2 specification in Annex A.

Status: **Principle agreed**

1006   DISC Rel-6; GAA Domain Data structure, Nokia
Discussion:
Status: **Noted**

1007   CR 23.008 133 Rel-6; GAA Domain Data structure, Nokia
Discussion:
Status: **Revised to N4-041079**

1079   CR 23.008 133r1 Rel-6; GAA Domain Data structure, Nokia
Discussion:

> **Ericsson**: In section 3A We should not define GAA as a user name. Common data should be added CS-, PS- and IMS-table.
> **Ericsson**: We can't add a new GA-table because it's an architectural decision which should be made by SA2.
> **Nokia**: In section 3A.1.2 a title of GAA Application Identified should be changed as GAA Service Identifier because of clarification. This will be defined as an integer.
> > Change was agreed by meeting.

Status: **Revised to N4-1165**

1165   CR 23.008 133r2 Rel-6; GAA Domain Data structure, Nokia
Discussion:
Status: **Revised to N4-041205**

1205   CR 23.008 133r3 Rel-6; GAA Domain Data structure, Nokia
Discussion:
Status: **Agreed**

1166   Output LS on Generic Authentication Architecture (GAA), Ericsson
Discussion:
Status: **Approved**

1008   DISC Rel-6; Applying Application IDs for Zh and Zn, Nokia
Discussion: **Action point to MCC: Request Application Identifier numbers**
Status: **Agreed**

1009   DISC Rel-6; Are Mandatory GAA AVPs required?, Nokia
Discussion:
Status: **Revised to N4-041118**

1118   DISC Rel-6; Are Mandatory GAA AVPs required?, Nokia
Proposal:

> The CN4#23 decision already made the Cx and Zh/Zn implementation incompatible. So, why not make the proper definition, that actually indicates which AVPs are really required in GAA and which are not.

Discussion:

> **Nokia**: The paper doesn't propose to change command codes. The meaning is to clarify which AVPs are required in GAA.
> **Nokia**: Adding mandatory AVPs in Zh/Zn-interface is similar to adding Rel-5 AVPs to Cx/Dx-interface.
> **ME-Key-Material** and **Key-LifeTime** will be defined as optional instead of mandatory.

Status: **Revised to N4-041167**

1167   DISC Rel-6; Are Mandatory GAA AVPs required?, Nokia
Discussion:
Status: **Agreed**

1168   TS Rel-6; 3GPP TS 29.109 v1.1.0, Nokia
Discussion: Document will be used as basis for future work.

> **Nokia** would like to raise a question if we can send a document for approval. Nokia believe specification is more than 80% ready.

Major outstanding issues:
- GAA is domain on itself (no effects on the specification)
- XML schema is part of the specification and it should be an Annex.

CN4 decided to send TS for approval in CN#25. XML-Schema file will be added in Zip-file in CN4#25.

Status: **Approved**

7.7   *Subscriber and equipment trace*

0900   Input LS: Rel-6; LS on Trace Issues, RAN3
Discussion:

In signalling based trace there are no need to send List of UEs.
Further analysis is needed.
Status: **Postponed to CN4#25**

1010   CR 23.205 045 Rel-6; Addition of the Trace package, Nokia
Discussion:
Status: **Revised to N4-0401080**

1080   CR 23.205 045r1 Rel-6; Addition of the Trace package, Nokia
Discussion:

Nokia: SA5 has defined that signalling based trace activating is only possible solution.
Ericsson: Isn't it optional that MSC server
Nokia: The CR covers a case when Mc-interface is wanted to trace.
Ericsson: We have to know that MGW support a new package
Ericsson: We should clearly define in section 6.1.9A that this is based signalling trace activation which is optional.
Status: **Revised to N4-041169**

1169   CR 23.205 045r2 Rel-6; Addition of the Trace package, Nokia
Discussion:
Status: **Postponed**

1011   CR 29.232 060 Rel-6; Addition of the Trace package, Nokia
Discussion:
Status: **Revised to N4-0401081**

1081   CR 29.232 060r1 Rel-6; Addition of the Trace package, Nokia
Discussion:

Nokia: We can't support any vendor specific functions.
Ericsson: CN4 have to wait until stage 2 procedure is available. We still need to specific what' need to be encoding in stage 3.
> **Nokia**: This encoding will be define in SA5 TS 32.422.
> **Ericsson**: In this case the procedures in TS 32.422 MGW point of view should be detailed enough.

Meeting couldn't find agreement on this topic. CN4 will wait when stage 2 work is more stabile. Detailed requirements are needed from SA5.
Ericsson: SA5 is maybe making to detailed work without consulting CN4.
Status: **Postponed**

1012   CR 29.060 470 Rel-6; Additional Trace information, Nokia

Discussion:
Status: **Revised to N4-0401082**

1082   CR 29.060 470r1 Rel-6; Additional Trace information, Nokia
Discussion:
Status: **Postponed**

1013   CR 23.008 134 Rel-6; Adding trace control and configuration parameters to subscriber data in HSS, Nokia
Discussion:
Status: **Postponed**

1014   CR 23.016 036 Rel-6; Adding trace control and configuration parameters, Nokia
Discussion:
Status: **Withdrawn**

1015   CR 29.002 738 Rel-6; Rel-6 trace management additions to trace activation and deactivation procedures, Nokia
Discussion:
Status: **Revised to N4-0401083**

1083   CR 29.002 738r1 Rel-6; Rel-6 trace management additions to trace activation and deactivation procedures, Nokia
Discussion:

> **Ericsson**: In section 9.1.1 The trace interface list is listed as conditional when 23.422 is listed as optional.
>> Based on stage 2 meeting decided that all the trace parameter should be mark as optional.
>
> **Nokia**: The MAP Active Trace mode message is send between HLR and VLR and there are no need to VLR knows which trace parameters are supported.
>
> **Meeting** couldn't find agreement on this topic. CN4 will wait when stage 2 work is more stabile. Detailed requirements are needed from SA5.

Status: **Postponed**

7.8   Mn Interface

0950   DISC 29.332 - Rel-6; Encoding Considerations for the Mn Interface, Siemens, Nokia
Discussion:
Status: Noted

0951   DISC 29.332 - Rel-6; Add transport option, UDP and M3UA/SCTP, Siemens, Nokia
Discussion:
Status: **Revised to N4-041154**

1154   DISC 29.332 - Rel-6; Add transport option, UDP and M3UA/SCTP, Siemens, Nokia
Discussion:
Status: **Revised to N4-041206**

1206   DISC 29.332 - Rel-6; Add transport option, UDP and M3UA/SCTP, Siemens, Nokia
Discussion:

Status: **Agreed**

0952   DISC 29.332 - Rel-6; IMS Procedures and Formats and codes, Siemens, Nokia
Discussion:
Status: **Revised to N4-041155**

01155 DISC 29.332 - Rel-6; IMS Procedures and Formats and codes, Siemens, Nokia
Discussion:
Status: **Agreed**

0953   DISC 29.332 - Rel-6; Non call related Procedures, Siemens, Nokia
Discussion:
Status: **Agreed**

0954   DISC 29.332 - Rel-6; Procedures for ISUP terminations, Siemens, Nokia
Discussion:
Status: **Agreed**

0955   DISC 29.332 - Rel-6; Mn interface, TDM Procedures, Siemens, Nokia
Discussion:
Status: **Agreed**

0956   DISC 29.332 - Rel-6; Procedures for BICC terminations, Siemens, Nokia
Discussion:
Status: **Agreed**

0957   DISC 29.332 - Rel-6; Proposed change on document structure on 29.332, Siemens, Nokia
Discussion:
Status: **Agreed**

1156   DISC 29.332 Rel-6; Draft 3GPP TS 29.332 v1.1.0, Siemens
Discussion:
Status: **Revised to N4-041220**

1220   DISC 29.332 Rel-6; Draft 3GPP TS 29.332 v1.1.1, Siemens
Discussion: **Open issues**:
- Use of Topology description
- Virtual MGW
- General packages needs to be checked

Siemens: The specification is about 90% ready.
CN4 decided to send TS for approval in CN#25.
Status: **Approved**

7.9   Mp Interface

Mp Interface Release 6
Current expected completion date:
- For information CN#27
- For approval CN#28

Major outstanding issues (a few bullets, a detailed list is not necessary):

No contributions on this Topic till now. Mn interface specification might be used as basis to develop 29.333

7.10 GPRS

0891   Input LS; LS on RIM routing addressing between GERAN and UTRAN, GERAN2
Discussion:
Status: **Noted**

0899   Input LS: Rel-6; LS on 'Generic Routing of RIM/NACC Information', RAN3
Discussion:
Status: **Noted**

0946   CR 29.060 501 Rel-6; Alignment and enhancement of the "RAT Type" IE, Vodafone, Nortel Networks
Discussion:

> **NEC** can't accept CR because it's inconsistent compares to SA2 specification. This is an addition of functionality.
> After discussion **NEC** were ready to accept a CR.

Status: **Agreed**

0961   CR 29.060 502 Re; Corrections to charging information IEs, Vodafone
Discussion:
Status: **Agreed**

1016   CR 29.060 507 Rel-6; RIM transparent routing, Nokia
Discussion: **NEC**: If network is 3G, do we have to add this parameters always?

> **Nokia**: Parameter is not needed always in 3G network.

> **Vodafone and Lucent**: It should be clearly stated that this is from GERAN to UTRAN.
> **NEC**: Condition when this parameter is used should be described clearly.
> **CN4 meeting** decided that RIM Routing Address should be Optional in protocol level instead of Conditional.
> **Ericsson**: We should ask information from SA2 if 23.060 needs to be updated also.

Status: **Revised to N4-041132**

1132   CR 29.060 507r1 Rel-6; RIM transparent routing, Nokia
Discussion:
Status: **Agreed**

1133   Output LS on RIM transparent routing, Nortel Networks
Discussion:
Status: **Approved**

1065   CR 29.060 075 Rel-6; Handling of ciphering and integrity keys at inter-SGSN RAU, Siemens
Discussion:

> **Siemens**: Changes can be done also in previous releases but it difficult to argue this is an essential correction. This is kind of optimisation.

Status: **Agreed**

7.11 MBMS

0898   Input LS: Rel-6; Reply LS on Clarification of TMGI format, RAN2
Discussion:

Vodafone: LS is needed to RAN2. There are no problems to change this in protocol level, but this is more stage 2 issue.
NEC: The CN1 has decided to change the length of TMGI to 3 octets.
Response LS N4-041137
Status: **Noted**

1137   Output LS: Rel-6; Reply LS on Clarification of TMGI format, Vodafone
Discussion:
Status: **Revised to N4-041203**

1203   Output LS: Rel-6; Reply LS on Clarification of TMGI format, Vodafone
Discussion:
Status: **Approved**

0893   Input LS: Rel-6; LS on transparent container field for MBMS, CN1
Discussion:
Status: **Noted**

0908   Input LS: Rel-6; Reply to LS on transparent container field for MBMS, SA2
Discussion:
Status: **Noted**

0906   Input LS: Rel-6; Reply LS on LS on change in MBMS Multicast Service Deactivation Procedure, SA2
Discussion: **NEC**: There are no need to update GTP-protocol in CN4.
Interested companies should investigate and analyse if there are need in GTP-protocol to cover changes proposed by SA2.
Status: **Noted**

0907   Input LS: Rel-6; Response to RAN3 Multicast and Broadcast service info to the RAN, SA2
Discussion:
Status: **Noted**

0922   Input LS: Rel-6; LS on progress of MBMS security, SA3
Discussion:
Status: **Noted**

1051   CR 29.060 510 Rel-6; Introduction of a transparent container field for MBMS, LM Ericsson
Discussion: Editorial correction were made.
Status: **Revised to N4-041138**

1138   CR 29.060 510r1 Rel-6; Introduction of a transparent container field for MBMS, LM Ericsson
Discussion:
Status: **Revised to N4-041207**

1207   CR 29.060 510r2 Rel-6; Introduction of a transparent container field for MBMS, LM Ericsson
Discussion:
Status: **Agreed**

0993   CR 29.060 505 Rel-6; Error Indication during an ongoing MBMS data transfer, NTT DoCoMo
Discussion:
Status: **Agreed**

0994   CR 23.007 012 Rel-6; Error Indication during an ongoing MBMS data transfer, NTT DoCoMo
Discussion:
Status: **Agreed**

0995   CR 29.060 506 Rel-6; Addition of Recovery IE in MBMS, NTT DoCoMo
Discussion:
Status: **Agreed**

0996   CR 23.007 013 Rel-6; Restoration of GSNs in MBMS, NTT DoCoMo
Discussion:
Status: **Agreed**

7.12 CAMEL

0872   CR 29.078 371 Rel-; Add servicecodes as the parameters of ApplyChargingReport procedure, China Mobile, HUAWEI
Discussion:
Status: **Revised to N4-041096**

1096   CR 29.078 371r1 Rel-6; Add charging Reason as the parameter of Apply Charging Report procedure, China Mobile, HUAWEI
Discussion: **Nokia**: The charging parameter is missing form ASN.1 definition.
                Nokia: The CR is needed also in stage 2 specification to describe a new parameter.
                Siemens would like to see stage 2 CR at first before stage 3 agreement.
Status: **Withdrawn**

0873   CR 29.078 372 Rel-6; Add 3 parameters to Collected Digits, China Mobile, HUAWEI
Discussion: **China Mobile**: More modifications are needed in stage 2 and stage 3.
                Vodafone: believe that sections 5.7 and 6.7 in 22.078 seems to be impacted. CRs should be agreed by SA1.
Status: **Withdrawn**

0874   INFO; Add 3 parameters to Collected Digit, China Mobile, HUAWEI
Discussion:
Status: **Revised to N4-041097**

1097   INFO; Add 3 parameters to Collected Digit, China Mobile, HUAWEI
Discussion: The requirements have come from SA1 first. This is a new functionality
                and it have to be approved in stage 1 (TS 22.078) before discussion in stage 2 and stage 3.
                China Mobile: believe this is only a small enhancement of feature stage 1 update is not
                needed. This is covered in stage 1 specification section 14.2.
                China Mobile: The proposed change is optional.

Vodafone: believe that sections 5.7 and 6.7 in 22.078 seems to be impacted. CRs should be agreed by SA1.

China Mobile agreed that changes are needed in stage 1.

Status: **Noted**

0875   CR 29.078 373 Rel-6; Add 1 parameter to Variable Part, China Mobile, HUAWEI

Discussion: Procedure part in needs to be updated.

After discussion CN4 meeting decided to add information in section 5.1.

Nokia: Since "Variable part" parameter is not in extensive format, proposed update is not correct.

Reason of change needs to be updated.

Title needs to be corrected.

After discussion CN4 meeting decided to reject CR:

Since capability negotiation between nodes seems miscarry, China Mobile needs more time to review a CR.

Status: **Rejected**

0876   INFO; Add 1 parameter to Variable Part, China Mobile, HUAWEI

Discussion:

Ericsson, T-Mobile: This is a new functionality. There are no requirements from stage 1. discussion.

have to take place in SA1.

China Mobile believe this is not a new requirement. This is a small technical enhancement which is already described in section 14 in TS 22.078.

Status: **Noted**

0877   CR 29.078 374 Re; Enhancing Camel CAP 3 To Implement services based on UIScript, China Mobile, HUAWEI

Discussion: Stage 1 description is needed.

Status: **Withdrawn**

0878   INFO; Enhancing Camel CAP 3 To Implement services based on UIScript, China Mobile, HUAWEI

Discussion: Stage 1 description is needed.

Status: **Withdrawn**

0879   DISC; when to add the DCH mark to the CDR, China Mobile, HUAWEI

Discussion:

China Mobile would like to hear meeting opinion how to add the DCH in Camel specification.

CN4 meeting agreed that discussion should take place in SA5.

Status: **Noted**

0880   DISC; when to apply the DCH parameter, China Mobile, HUAWEI

Discussion:

Status: **Withdrawn**

0927   CR 23.078 729 Rel-6; Support of User-to-User Information (UUI) in CAMEL InitialDP operation, Nortel Networks, Siemens

Discussion:

Ericsson: There is no meaning to have "user to user information" as optional on information element column NP. It can be removed.

Accepted by meeting.

Ericsson: Maybe some enhancements might be needed UUI information.

Vodafone: TS 23.087 needs to be added to reference section.

Ericsson: If DTAP, ISUP and CAP have a same aligned format.

Siemens: They have different format but information is same.

Status: **Revised to N4-041177**

1177 CR 23.078 729r1 Rel-6; Support of User-to-User Information (UUI) in CAMEL InitialDP operation, Nortel Networks, Siemens

Discussion: The reference [40] have to be changed.

Status: **Revised to N4-041183**

1183 CR 23.078 729r2 Rel-6; Support of User-to-User Information (UUI) in CAMEL InitialDP operation, Nortel Networks, Siemens

Discussion: Stage 1 have to be approved before this can be approved.

Status: **Conditionally Agreed**

0928 CR 29.078 380 Rel-6; Support of User-to-User Information (UUI) in CAMEL InitialDP operation, Nortel Networks, Siemens

Discussion: Stage 1 have to be approved before this can be approved.

Status: **Conditionally Agreed**

0929 CR 29.002 739 Rel-6; Export of UU-Data data type, Nortel Networks, Siemens

Discussion: Stage 1 have to be approved before this can be approved.

Status: **Conditionally Agreed**

0930 INFO; CR 22.078 on Support of User-to-User Information (UUI) in CAMEL, Nortel Networks, Siemens

Discussion:

Vodafone: Next SA1 is in October, which mean there is no change to approve this CR in SA1 before CN#25.

Siemens: Siemens will bring CR directly to SA#25. If SA plenary doesn't approve this in SA#25 they can give exception related on this topic and stage 2 and stage 3CR set can be approved in CN#26 December.

Siemens proposed to approve stage 2 and stage 3 CR conditionally if CRs are agreeable.

Status: **Noted**

0931 CR 23.078 730 Rel-6; Editorial correction, HUAWEI

Discussion:

Ericsson: Sixth modification will be taken out; OCB to ODB is not appropriate. OCB stands for Outgoing Call Barring.

Nokia: "Autorization" should be written "authorization" in 4th correction.

Status: **Revised to N4-041178**

1178 CR 23.078 730r1 Rel-6; Editorial correction, HUAWEI

Discussion:

Ericsson: Sixth modification will be taken out; OCB to ODB is not appropriate. OCB stands for Outgoing Call Barring.

Nokia: "Autorization" should be written "authorization" in 4th correction.

Status:

0932   CR 23.078 731 Rel-6; Correcting status in the procedure CAME_MT_CTR(sheet 4), HUAWEI
Discussion:
Status: **Agreed**

0933   CR 23.078 732 Rel-6; Redundantly modifying call parameter in CAMEL_MT_GMSC_Notify_CF, HUAWEI
Discussion:
Status: **Agreed**

0934   CR 23.078 733 Rel-6; Correcting SDL of Process CS_gsmSSF(sheet 7), HUAWEI
Discussion:
Status: **Agreed**

0935   CR 23.078 734 Rel-6; Add process in Procedure CAMEL_ICH_VLR(sheet 1), HUAWEI
Discussion: **Ericsson**: The proposed changed are not needed because they are already covered.
Status: **Withdrawn**

0936   CR 23.078 735 Rel-6; Appended a note in Process CAMEL_ICA_MSC, HUAWEI
Discussion: Line of addition should be dash line.
               Reason of change have to be strengthen.
Status: **Revised to N4-041179**

1179   CR 23.078 735r1 Rel-6; Appended a note in Process CAMEL_ICA_MSC, HUAWEI
Discussion:
Status: **Agreed**

0937   CR 23.078 736 Rel-6; Add other legID in Procedure CAMEL_MT_GMSC_DISC2, HUAWEI
Discussion:

               Ericsson: This is not correct to send int DP T disconnect in a call leg with a leg-id bigger than 2 because the leg will follow O_BCSM.
Status: **Withdrawn**

0938   CR 23.018 143 Rel-6; Add "CAMEL_Stop_TNRy"in Procedure OG_Call_Setup _MSC (sheet 4), HUAWEI
Discussion: **Vodafone**: Comment to refer TS needs to be added
               Ericsson: Even thought the timer has not started every case, there is no harm to stop timer.
Status: **Revised to N4-041181**

1181   CR 23.018 143r1 Rel-6; Add "CAMEL_Stop_TNRy"in Procedure OG_Call_Setup _MSC (sheet 4), HUAWEI
Discussion:
Status: **Agreed**

1024   CR 23.078 737 Rel-6; Correction to CAP SCI for calls with multiple CAP dialogues, Ericsson
Discussion:
Status: **Agreed**

1025   CR 29.078 383 Rel-6; Correction to usage of ACM for CAP ETC and CAP CTR, Ericsson
Discussion:

Status: **Agreed**

1026   CR 23.078 738 Rel-6; Correction to ICA_MSC1 and CAMEL_ICA_MSC2, Ericsson
Discussion:
Status: **Agreed**

1027   CR 23.078 739 Rel-6; Removal of Int_O_Exception from CAMEL_OCH_MSC2 and CAMEL_MT_GMSC_DISC5, Ericsson
Discussion:
Status: **Agreed**

1028   CR 23.078 740 Rel-6; Correction to CAMEL_Modify_CUG_Info, Ericsson
Discussion:
Status: **Agreed**

1029   CR 29.078 384 Rel-6; Correction to Cancel procedure description, Ericsson
Discussion:

> **Vodafone** has a concern that this causes backward compatibility problems.
>   **Ericsson**: There aren't backward compatibility problems because call segment already exist in 23.078, but a procedure description is missing from 29.078.

Status: **Agreed**

1030   CR 23.078 741 Rel-6; Correction to CAMEL_EXPORT_LEG_MSC procedure, Ericsson
Discussion:
Status: **Agreed**

1031   CR 23.078 742 Rel-6; Correction to CAMEL_ICA_MSC, Ericsson
Discussion:
Status: **Withdrawn**

1032   CR 23.078 743 Rel-6; Correction to CS_gsmSSF for EDS, Ericsson
Discussion:
Status: **Agreed**

1033   CR 23.078 744 Rel-6; Correction to CS_gsmSSF for Tcp expiry, Ericsson
Discussion:
Status: **Agreed**

1034   CR 23.078 745 Rel-6; Correction to Handle_ACR procedure for Tccd timer, Ericsson
Discussion:
Status: **Agreed**

1035   CR 23.078 746 Rel-6; Correction to Mobility Management event notification, Ericsson
Discussion:
Status: **Withdrawn**

1036   CR 23.078 747 Rel-6; Correction to any Time Interrogation, Ericsson
Discussion:
Status: **Agreed**

1037   CR 29.078 385 Rel-6; Correction to SplitLeg ASN.1 description, Ericsson
Discussion:

Vodafone: The difference between original text and the proposed change does not make difference, but **Vodafone** do not object CR.

Status: **Agreed**

1038   CR 29.078 386 Rel-6; Correction to Apply Charging Report procedure, Ericsson

Discussion:

Status: **Agreed**

1039   CR 29.078 387 Rel-6; Correction to Assist Request Instructions procedure, Ericsson

Discussion: **Alcatel**: In section 11.4.2.1 state "connected" does not exist.

After checking meeting agreed that stage "connected" is valid.

Status: **Agreed**

1040   CR 29.078 388 Rel-6; Correction to Call Information Request and Report, Ericsson

Discussion:

Status: **Agreed**

1041   CR 29.078 389 Rel-6; Correction to Tssf timer setting for SMS control, Ericsson

Discussion:

Status: **Agreed**

1042   DISC; Proposition for the introduction of CAMEL DP3 trunk triggering, Nortel Networks

Discussion: **Nortel**: The proposal of discussion paper is introduce a new work item on Rel-6.

The meeting agreed this is too late for Rel-6. A correct place will be Rel-7.

Nortel: There is maybe no need for stage 1 requirements, but more clarification is needed on topic.

Vodafone believe stage 1 is impacted. The requirements are needed for this work.

Ericsson: At least editorial correction is needed in stage 1.

The work item is needed on service (in SA1) and protocol level (in CN4).

CN4 meeting agreed this is an useful addition of feature in Camel on Rel-7.

Status: **Noted**

1043   INFO; Proposition for the introduction of CAMEL DP3 trunk triggering, Nortel Networks

Discussion: **Nortel**: The document is provided for background information.

Ericsson: Why this is restricted only for CAP3, why not for all versions?

Nokia: If new functionality is added in Rel-7 Camel, it should be the latest version of CAP.

Status: **Noted**

1067   CR 23.078 748 Rel-6; Clarification on Outstanding Request Counter (ORC) handling at EDP-R or TDP-R resumption, Ericsson

Discussion:

Status: **Revised to N4-041134**

1134   CR 23.078 748r1 Rel-6; Clarification on Outstanding Request Counter (ORC) handling at EDP-R or TDP-R resumption, Ericsson

Discussion:

Rephrasing were made in bullet 9) and 10).

Since this a big modification of SDL more time is needed for review.

CR will be E-mail approval.

Status: **Revised to N4-041182**

1182 CR 23.078 748r2 Rel-6; Clarification on Outstanding Request Counter (ORC) handling at EDP-R or TDP-R resumption, Ericsson
Discussion: Email approval
Status: **Agreed after email approval period**

1151 CAMEL open issue status list, CN vice chairman
Discussion:

Non-IMS topics in Rel-5:

1. GGSN address format (IPv4 or IPv6). Needed for charging correlation. An LS sent to SA5-B.

   - CN4 is still waiting answer from SA5. No contribution in this topic.

   - Status open

2. D-CSI triggering criteria: According to Ericsson, list of 10 numbers may not be adequate, especially if the DP3 enhanced dialled services are used as a replacement for DP2 triggering.

   - Status open

3. SCUDIF and triggering criteria

   - No contribution in this meeting
   - Status open

4. Propagation of ISUP messages in a CPH call. Each case below should be considered for both a) between call segments and b) within a call segment.

Status: **Revised to N4-041163**

1163 CAMEL open issue status list, CN vice chairman
Discussion: This document lists the latest status of the identified open issues in CN-P#24 for CAMEL.
Non-IMS topics in Rel-5:

1. GGSN address format (IPv4 or IPv6). Needed for charging correlation. An LS sent to SA5-B.

Status in CN4#24: Open (We did not receive any LSs from SA5-B on this issue.)

2. D-CSI triggering criteria: According to Ericsson, list of 10 numbers may not be adequate, especially if the DP3 enhanced dialled services are used as a replacement for DP2 triggering.

Status in CN4#24: Open (No contribution)

3. SCUDIF and triggering criteria:

   - Shall we trigger if either basic service criterion matches?

   - Shall both match? Or,

   - Do we assume that operator populates both codes to the list of 5 and MSC compares the code of the preferred service to the list? 23.078 chapter 4.2.1.2.1.

Status in CN4#24: Open (No contribution)

4. Propagation of ISUP messages in a CPH call. Each case below should be considered for both a) between call segments and b) within a call segment.

- ACM/CPG/ANM due to user interaction. For sure, these messages are not sent for outgoing legs.

Status in CN4#24: Open (No contribution)

- User-To-User Service (UUS).

Status in CN4#24: Open (No contribution)

- BICC APM, especially the speech codec information.

Status in CN4#24: Open (No contribution)

- Facility. E.g. a notification on call hold / unhold. In addition, the "hold" impact of CPH shall be considered.

Status in CN4#24: Open (No contribution)

IMS topics in Rel-5:
None.
Open topics in Rel-6:
1. IMS CAMEL specs (23.278 and 29.278) need to be updated to Rel-6. The 2x.078 CRs will be checked and corresponding changes will be done for IMS. The Rel-6 IMS CAMEL will not be updated to CAMEL4 level. Angelica R. (Lucent) intends to provide CRs for the August 2004 CN4 meeting.

Status in CN4#24: Closed

CN4 found 2 relevant items needs to reflect to 23.278 and 29.278. Both CRs, N4-040939 and N4-041174 were approved as the Release 5 CR.

Release 6 version of IMS CAMEL specifications (23.278 and 29.278) will be automatically generated when CRs applicable only for Release 6 will be agreed or when Release 6 will be frozen.

Open topics in Rel-7:
1. 22.078 2004-03 has a new requirement. According to the requirement the gsmSCF may change the basic service in a SCUDIF call. This requirement is not yet implemented in stage 2 & 3.

Status in CN4#24: Open (No contribution)

Status: **Agreed**

7.13 Location service

7.14 TrFO/codec control

7.15 Any other business for Release 6

1020   CR 23.081 008 Rel-6; Editorial correction of table definition, Ericsson
Discussion:
Status: **Agreed**

1021   CR 29.002 743 Rel-6; Wrong SDL flow page implemented, Ericsson
Discussion:
Status: **Agreed**

7.15.1 Cause code mapping

0886   CR 29.010 108 Rel-6; Addition of cause code mapping to the routing area update procedure, Vodafone, Orange
Discussion:
Status: **Revised to N4-040990**

0990   CR 29.010 108 r1Rel-6; Addition of cause code mapping to the routing area update procedure, Vodafone, Orange, Nokia
Discussion:
Status: **Revised to N4-041127**

1127   CR 29.010 108 r2Rel-6; Addition of cause code mapping to the routing area update procedure, Vodafone, Orange, Nokia
Discussion:
Status: **Agreed**

1196   CR 29.010 109 Rel-5; Addition of cause code mapping for inter-system handover, Vodafone
Discussion:
Status: **Agreed after email approval period**

1197   CR 29.010 110 Rel-6; Addition of cause code mapping for inter-system handover, Vodafone
Discussion:
Status: **Agreed after email approval period**

7.15.2 Access restriction

0920   CR 23.008 132 Rel-6; Include regulation for insert the AccessRestricationData, CHINAMOBILE
Discussion:
Status: **Revised to N4-0401068**

1068   CR 23.008 132r1 Rel-6; Include regulation for insert the AccessRestricationData, CHINAMOBILE
Discussion:
Status: **Withdrawn**

0921   DISC ; Analysis on Include regulation for insert the AccessRestricationData, CHINAMOBILE
Discussion:
Status: **Withdrawn**

7.15.3 Prepaging

0925   CR 29.002 732r1 Rel-6; Pre-Paging Resource Optimization, Siemens
Discussion:
            NEC is worried if MSRN is indicated for every terminating call.
            Siemens: If there are more than a one terminated call almost at the same time, the second
            call will be indicated as busy.
            Editorial correction was made.
Status: **Revised to N4-041128**

1128 CR 29.002 732r2 Rel-6; Pre-Paging Resource Optimization, Siemens
Discussion:
Status: **Agreed**

0926 CR 23.018 141r1 Rel-6; Pre-Paging Resource Optimization, Siemens
Discussion:
Status: **Agreed**

7.15.4 MAP security, SMS fraud

0914 Input LS: Rel-6; LS on 'SMS Fraud countermeasures; SA3
Discussion:
Status: **Noted**

0958 LS OUT; Proposed Response LS to SA3 on SMS Fraud countermeasures, Siemens
Discussion:

Reply LS to SA3:
- The discussion on this were not conclusive but there were reluctance to mandate this.
- SA3 are asked to provide opinion on whether the solution proposed addresses the problem described in the LS S3-040642. In particular to provide guidance as to whether the proposal should be mandated or optional.

Ericsson: SA3 didn't ask us to implement solution, They just wanted to feasibility on topic.
Siemens: We can reply to SA3 that solution in S3-040642 is feasibly, but they should inform CN4 which way to continue.

Status: **Revised to N4-041193**

1193 LS OUT; Proposed Response LS to SA3 on SMS Fraud countermeasures, Siemens
Discussion:
Status: **Approved**

0959 CR 29.002 740 Re; SMS Fraud countermeasures, Siemens
Discussion:

Ericsson: This solution could be possible if we referring only MAP addressing spoofing. If we have a spoofed node in SCCP level, the proposed solution can't solve a problem. More cases should be taken account before a problem can be solved.
Siemens, Vodafone and **T-Mobile** support CR.
CR mandates operator to use solution which is the case also if MAPSec. It must be noted that the handshake mechanism doubles the signalling load on the interfaces between SMS-GMSC and MSC / SGSN for MT short message transfer. Furthermore the mechanism requires support of application context version 2 or 3, i.e. it cannot be used with version 1.

Status: **Postponed**

0960 INFO; CR 33.200 on
SMS Fraud countermeasures, Siemens
Discussion:
Status: **Noted**

0967 DISC-; Methods for combating SMS fraud; Vodafone

Background:

Discussion has taken place in GSM-A, SA plenary and SA3 on the threat posed by SMS fraud. SMS fraud has become prevalent because of the weaknesses that exist in the SS7 network that stem from the functioning of this network on a trust basis. These weaknesses are easy to exploit for SMS as the messaging associated with normal length SMS comprises a single pair of messages. This means that the source of the message is taken on trust by the receiver of a request, but if the source if being 'spoofed' or 'faked', the result is (amongst others) incorrect inter-network billing records being created (often to the detriment of smaller operators), or incorrect billing of the 'faked' subscriber.

Vodafone proposes the following actions;-

- A LS is sent in reply to SA3's LS, providing a summary of our assessment of the TCAP handshaking solution. Also in this LS, a discussion of the points raised here is included regarding the relative merits of MAPSec vs. SIGTRAN, and highlighting the need for assessment of the timescales and technical issues associated with each. This LS is also sent to GSM-A for somment (since they will have the expertise to consider the likely uptake of either solution).
- In the interim, work begins in CN4 on the standardisation of Ze interface. The WID contained in N4-040xxx is approved and the skeleton TS 29.200 in N4-040yyy is considered to form the basis for further work. Vodafone is prepared to lead the work to standardise Ze.

Discussion:

Lucent: In our understanding SIGTRAN IPsec is already fully standardized.

Vodafone: MAPSec work is going in SA3 which mandate us to implement Ze-interface.

Lucent: Might be reasonable to ask SIGTRAN to combine the work of IPSec and MAPSec if security problems are only between few operators.

Vodafone: Two problems which should be solved with MAP security:

- Spamming
- device faking himself

Orange: Also second problem is more or less spamming SS7 shall be possible to identify the origin because it's peer to peer connection.

Vodafone: If you do not use IPSec or MAPSec how does operator cover the network. It is difficult to isolate or identify a spammer.

Status: **Noted**

0969   DISC ; TS 29.200 v0.0.0, Vodafone
Discussion:
Status: **Withdrawn**

1194   Output LS on evaluation of the alternatives for SMS fraud cancellation
Discussion:
Status: **Revised to N4-041204**

1204   Output LS on Evaluation of the alternatives for SMS fraud countermeasures
Discussion:
Status: **Approved**

7.15.5   ADD

1019   CR 23.012 016 Rel-6; Clarification of the Automatic Device Detection feature; Ericsson, Vodafone
Discussion: Category have to be changed as F.

Editorial correction have to be in proposed text.

Status: **Revised to N4-041129**

1129   CR 23.012 016r1 Rel-6; Clarification of the Automatic Device Detection feature; Ericsson, Vodafone

Discussion:

Status: **Agreed**

7.15.6   Domain name handling

0962   CR 23.003 089 Rel-6; Background of and procedures for the ".3gppnetwork.org" domain name, Vodafone

Discussion: Category have to be B.

Status: **Agreed**

7.15.7   Networksharing

1078   CR 23.008 135 Rel-6; Inclusion of selected CN operator ID parameter, TeliaSonera

Discussion:

> **Nokia**: In section 2.4.19 should be "This data **and GPRS services are** also stored in VLR…".
>
> **Nokia**: At the end of document a NOTE 3 is not needed, but NOTE 2 can be used instead.
>
> **Telia-Sonera**: Plenary has decided that all Rel-6 UE have to support Network sharing.

Status: **Postponed to CN4#25**

8   Release 5 and earlier

8.1   Subscriber data handling for the IMS

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

0883   CR 29.228 119 Rel-5; Use of regular expressions, Nokia

Discussion:

Status: **Revised to N4-041098**

1098   CR 29.228 119r1 Rel-5; Use of regular expressions, Nokia

Discussion:

> **Siemens**: The title of Annex should be rephrase and to effect only for those parameters which exist on the table and refers on regular expression.
>
> **Siemens**: Proposed to add note that parameter list is not complete.
>
> **Vodafone** proposed a title of Annex as "Definition of parameters for service point trigger matching".

Status: **Revised to N4-041130**

1130   CR 29.228 119r2 Rel-5; Use of regular expressions, Nokia

Discussion: Editor's note have to be removed.

> The new normative Annex is not complete. The CR will be provided to next meeting to fulfil the Annex.
>
> **Nokia**: The list of parameters in Table YYY.1 is currently not comprehensive and it may be extended to contain the definition for other SPT parameters.

Status: **Revised to N4-041208**

1208   CR 29.228 119r3 Rel-5; Use of regular expressions, Nokia
Discussion:
Status: Agreed

0884   CR 29.228 120 Rel-6; Use of regular expressions, Nokia
Discussion:
Status: Revised to N4-041099

1099   CR 29.228 120r1 Rel-6; Use of regular expressions, Nokia
Discussion:
Status: Revised to N4-041131

1131   CR 29.228 120r2 Rel-6; Use of regular expressions, Nokia
Discussion:
Status: Revised to N4-041209

1209   CR 29.228 120r3 Rel-6; Use of regular expressions, Nokia
Discussion:
Status: Agreed

0963   CR 29.228 123 Rel-5; Simplification of the User Profile Split concept, Vodafone, Siemens, Nokia, Nortel, Lucent
Discussion:
Status: Revised to N4-041124

1124   CR 29.228 123r1 Rel-5; Simplification of the User Profile Split concept, Vodafone, Siemens, Nokia, Nortel, Lucent
Discussion:
Status: Revised to N4-041161

1161   CR 29.228 123r1 Rel-5; Simplification of the User Profile Split concept, Vodafone, Siemens, Nokia, Nortel, Lucent
Discussion:
Status: Agreed

0964   CR 29.228 124 Rel-6; Simplification of the User Profile Split concept, Vodafone, Siemens, Nokia, Nortel, Lucent
Discussion:
Status: Revised to N4-041125

1125   CR 29.228 124r1 Rel-6; Simplification of the User Profile Split concept, Vodafone, Siemens, Nokia, Nortel, Lucent
Discussion:
Status: Revised to N4-041162

1126   CR 29.230 003 Rel-6; Simplification of the User Profile Split concept, Vodafone
Discussion:
Status: Agreed

1162   CR 29.228 124r2 Rel-6; Simplification of the User Profile Split concept, Vodafone, Siemens, Nokia, Nortel, Lucent
Discussion: Agreed

Status: **Agreed**

0965   CR 29.229 057 Rel-5; Simplification of the User Profile Split concept, Vodafone, Siemens, Nokia, Nortel, Lucent
Discussion:
Status: **Agreed**

0966   CR 29.229 058 Rel-6; Simplification of the User Profile Split concept, Vodafone, Siemens, Nokia, Nortel, Lucent
Discussion:
Status: **Agreed**

0987   CR 29.228 125 Rel-5; Avoiding undesired deregistration, Nokia
Discussion:
            France Telecom believe there is no need to CR?
            Vodafone and Lucent: Current text is clear enough. The proposed text do not bring any extra information.
            Nokia believe this CR is needed and it's essential correction.
            Nokia would like to know if any company oppose CR?
            Meeting would like to clarify how often error situation occurs. Off-line discussion is needed with CN1 experts.
            Ericsson challenged the essential correction.
Status: **Withdrawn**

0988   CR 29.228 126 Rel-6; Avoiding undesired deregistration, Nokia
Discussion:
Status: **Postponed to CN4#25**

1071   CR 29.229 060 Rel-5; Correction of the Application-Id code, Ericsson
Discussion:
Status: **Agreed**

1072   CR 29.229 061 Rel-6; Correction of the Application-Id code, Ericsson
Discussion:
Status: **Agreed**

1084   CR 29.228 128 Rel-5; corrections on IE for S-CSCF registration notification , Orange
Discussion:
Status: **Revised to N4-041102**

1102   CR 29.228 128r1 Rel-5; corrections on IE for S-CSCF registration notification , Orange
Discussion:
Status: **Withdrawn**

1085   CR 29.228 129 Rel-6 ; corrections on IE for S-CSCF registration notification , Orange
Discussion:
Status: **Revised to N4-041103**

1103   CR 29.228 129r1 Rel-6 ; corrections on IE for S-CSCF registration notification , Orange
Discussion:
Status: **Withdrawn**

1086   CR 29.228 130 Rel-5; HSS initiated deregistration for permanent termination, Orange
Discussion:
Status: **Revised to N4-041104**

1104   CR 29.228 130r1 Rel-5; HSS initiated deregistration for permanent termination, Orange
Discussion:
Status: **Withdrawn**

1087   CR 29.228 131 Rel-6 ; HSS initiated deregistration for permanent termination, Orange
Discussion:
Status: **Revised to N4-041105**

1105   CR 29.228 131r1 Rel-6 ; HSS initiated deregistration for permanent termination, Orange
Discussion:
Status: **Withdrawn**

1088   CR 29.228 132 Rel-5; HSS initiated deregistration for S-CSCF change, Orange
Discussion:
Status: **Revised to N4-041106**

1106   CR 29.228 132r1 Rel-5; HSS initiated deregistration for S-CSCF change, Orange
Discussion:
Status: **Withdrawn**

1089   CR 29.228 133 Rel-6 ; HSS initiated deregistration for S-CSCF change, Orange
Discussion:
Status: **Revised to N4-041107**

1107   CR 29.228 133r1 Rel-6 ; HSS initiated deregistration for S-CSCF change, Orange
Discussion:
Status: **Withdrawn**

1090   CR 29.228 134 Rel-5; HSS initiated deregistration for S-CSCF removal, Orange
Discussion:
Status: **Revised to N4-041108**

1108   CR 29.228 134r1 Rel-5; HSS initiated deregistration for S-CSCF removal, Orange
Discussion:
Status: **Withdrawn**

1091   CR 29.228 135 Rel-6 ; HSS initiated deregistration for S-CSCF removal, Orange
Discussion:
Status: **Revised to N4-041109**

1109   CR 29.228 135r1 Rel-6 ; HSS initiated deregistration for S-CSCF removal, Orange
Discussion:
Status: **Withdrawn**

8.1.2 HSS – SIP AS (Sh) interface

0941   CR 29.328 089 Rel-5; Alignment of PSUserState with that in 29.002 and Addition of NetworkDeterminedNotReachable tag, Lucent Technologies

Discussion:

Vodafone: There are no frequent and serious miss operation in this CR.

Nokia do not agree the statement in the Reason for change indicating that the definition in 23.078 does not align with definition in 29.002. Nokia believe they do, both have basically same 7 alternatives to be sent for which one (NetworkDeterminedNotReachable) is missing currently from Sh data definition.

CN4 meeting didn't agree this is essential correction.

Status: **Rejected**

0942   CR 29.328 090 Rel-6; Alignment of PSUserState with that in 29.002 and Addition of NetworkDeterminedNotReachable tag, Lucent Technologies

Discussion:

Status: **Rejected**

0943   CR 29.328 091 Rel-5; Current Location should be indicated as a access key, Lucent Technologies

Discussion: **France Telecom**: What is exact definition of an access key?

France Telecom: is Current Location same level as other access keys?

Nokia: Current Location doesn't sound like access key in 29.328 description.

Status: **Rejected**

0944   CR 29.328 092 Rel-6; Current Location should be indicated as a access key, Lucent Technologies

Discussion:

Status: **Rejected**

1073   CR 29.329 048 Rel-5; Correction of the Application-Id code, Ericsson

Discussion:

Status: **Agreed**

1074   CR 29.329 049 Rel-6; Correction of the Application-Id code, Ericsson

Discussion:

Status: **Agreed**

8.2   GPRS

0887   CR 29.060 499 Rel-5; Correct SGSN Address for user traffic in SGSN Context Acknowledge message, HUAWEI

Discussion:

This is maybe not essential correction, but it's kind of optimisation which mean CR is not accepted to Rel-5.

Status: **Withdrawn**

0888   CR 29.060 500 Rel-6; Correct SGSN Address for user traffic in SGSN Context Acknowledge message, HUAWEI

Discussion:

Status: **Withdrawn**

0889   CR 24.008 (CN1) Rel-5; Correction to list of received N-PDU number in Rau Accept message, HUAWEI

Discussion:

Status: Withdrawn

0890 CR 24.008 (CN1) Rel-6; Correction to list of received N-PDU number in Rau Accept message, HUAWEI
Discussion:
Status: Withdrawn

0975 CR 29.060 503 R99; Clarification of receiving end interpretation of Quality of Service profile data, Nortel Networks
Discussion: **NEC**: Is this CR exactly the same than Rel-5 and Rel-6 we have approved before?
          Nortel Networks: Content is same.
       Nokia: When we approved set of Rel-5 and Rel-6 CRs on this topic CN4 agreed that R99 and Rel-4 are not needed.
       NEC: We can see the benefit of this CR anyway we don't make CRs for forward compatibility problems. That's why **NEC** can't accept the CRs
Status: Rejected

0976 CR 29.060 504 Rel-4; Clarification of receiving end interpretation of Quality of Service profile data, Nortel Networks
Discussion:
Status: Rejected

1045 CR 29.060 499r1 R99; Delete PDP Context Correction, LM Ericsson
Discussion:
Status: Withdrawn

1046 CR 29.060 500r1 Rel-4; Delete PDP Context Correction, LM Ericsson
Discussion:
Status: Withdrawn

1047 CR 29.060 501r1 Rel-5; Delete PDP Context Correction, LM Ericsson
Discussion:
Status: Withdrawn

1044 CR 29.060 502r1 Rel-6; Delete PDP Context Correction, LM Ericsson
Discussion:
Status: Withdrawn

1048 DISC: Discussion paper on "Delete PDP Context Correction", LM Ericsson
Background:
      In different kinds of handovers between SGSN's, i.e. at ISRAU and IMSI/P-TMSI attach, a SGSN in some cases shall send Delete PDP Context Request towards the GGSN and in other cases it shall not, after receiving the Cancel Location from the HLR. Today there are no mechanisms/functions specified within 3GPP stage 3 how SGSN should determine what action to take.
      If the SGSN always sends Delete PDP Context Request towards the GGSN when receiving Cancel Location, in some cases the result may be that perfectly healthy PDP Contexts are deleted, user data packets are lost and the MS has to re-initiate PDP Context Activation implying unnecessary signalling.
      If the SGSN never sends Delete PDP Context Request towards the GGSN when receiving Cancel Location from the HLR, the result may be hanging PDP Contexts in GGSN.
Discussion:

Ericsson: The reason for the problem is that it is not clearly specified how the SGSN shall behave when receiving a Cancel Location. In some cases a Delete PDP Cxt Req shall be sent and in other cases it shall not be sent to the GGSN. The proposal solves the problem by implementing a simple requirement in the GGSN not to accept Delete Requests from the "wrong" address. This is a very simple correction to the specification and also to the implementation.

Lucent: We can't agree this correction for earlier releases and if it's only added to Rel-6 it causes backward compatibility problems.

Nokia support Lucent view that this isn't frequent and serious misoperations. We have asked how frequent error situation happens, but haven't got any answer.

Ericsson: The frequency of this misoperations is difficult to clarify.

Ericsson: After discussion Ericsson decided to withdrawn CRs, but they might come back with the proposal in the future if support are provided by other companies.

Status: **Noted**

1049 CR 29.060 508 Rel-5; Problem with source address in ISRAU and SGSN pool, LM Ericsson
Discussion:
Status: **Withdrawn**

1050 CR 29.060 509 Rel-5; SGSN Context Request and IMSI, LM Ericsson
Discussion: Vodafone: Is there a corresponding change in stage 2?

Ericsson: We haven't submitted corrections in 23.060.

Siemens: Does this parameter is included in any case if the is SGSN pool or not?

Ericsson: Yes, this is our proposal.

Vodafone: This address should be only added when there is SGSN pool. Stage 2 should be also updated.

Ericsson: The functionality was introduced in Rel-5.

Ericsson draft stage 2 CR on this topic.

Status: **Revised to N4-041135**

1135 CR 29.060 509r1 Rel-5; SGSN Context Request and IMSI, LM Ericsson
Discussion:
Status: **Agreed**

1136 CR 29.060 512 Rel-6; SGSN Context Request and IMSI, LM Ericsson
Discussion:
Status: **Agreed**

8.3 CAMEL

0939 CR 23.278 047 Rel-5; Correction of Check_Criteria Procedure names referenced in Process imcnSSF, Lucent Technologies
Discussion: Lucent: All new procedures are defined in 23.078.

Category F,

The CR is an essential correction.

WI have to be IMS-CAMEL.

Status: **Agreed**

0940 CR 29.278 006 Rel-5; Correction to ERB pre-condition for IM-SSF state, Lucent Technologies
Discussion: Consequences of if not approved needs to strengthen.

This is an essential correction.
WI IMS-CAMEL

Status: **Revised to N4-041174**

1174   CR 29.278 006 Rel-5; Correction to ERB pre-condition for IM-SSF state, Lucent Technologies

Discussion:

Status: **Agreed**

1022   CR 29.078 381 Rel-5; Clarification on the handling of operation invocation when LinkedID is missing although expected, Ericsson

Discussion:

Nokia: There is not relevant problem code defined. "unexpected component sequence" does not exist in T-CAP.
      Ericsson: This should be change to "unrecognised operation".
Siemens: Because of error case this is not essential correction for Rel-5 and maybe this is not needed even in Rel-6. We should not specify error handling so detailed.
      Nokia agree this is not essential correction for Rel-5.
Ericsson: This is not a functional modification.

Status: **Revised to N4-041176**

1176   CR 29.078 381r1 Rel-5; Clarification on the handling of operation invocation when LinkedID is missing although expected, Ericsson

Discussion:

This is not an addition of feature, operation already exist. Addition of text only clarifies the situation.
Nokia: If this kind correction is needed, handling should be inline with MAP, in this case problem code should be "mistyped Parameter"

Status: **Revised to N4-041184**

1184   CR 29.078 381r1 Rel-5; Clarification on the handling of operation invocation when LinkedID is missing although expected, Ericsson

Discussion:

Status: **Agreed**

1023   CR 29.078 382 Rel-6; Clarification on the handling of operation invocation when LinkedID is missing although expected, Ericsson

Discussion: Category have to be F.

Status: **Revised to N4-041175**

1175   CR 29.078 382r1 Rel-6; Clarification on the handling of operation invocation when LinkedID is missing although expected, Ericsson

Discussion:

This is not an addition of feature, operation already exist. Addition of text only clarifies the situation.
Nokia: If this kind correction is needed, handling should be inline with MAP, in this case problem code should be "mistyped Parameter"

Status: **Revised to N4-041185**

1185   CR 29.078 382r2 Rel-6; Clarification on the handling of operation invocation when LinkedID is missing although expected, Ericsson

Discussion:

Status: **Agreed**

8.4 Location Services

8.5 TrFO/Codec control

0997   CR 29.232 075 Rel-5; 3GUP package corrections, Alcatel, LM Ericsson
Discussion:
Status: **Revised to N4-041152**

1153   CR 29.232 075r1 Rel-4; 3GUP package corrections, Alcatel, LM Ericsson
Discussion: **Lucent**: Editor's note have be removed.
               Ericsson: The affect of Topology to the UP protocol control messages is to be specified.
               For rate control in particular the handling in this case needs to be described
Status: **Revised to N4-041152**

1152   CR 29.232 075r1 Rel-5; 3GUP package corrections, Alcatel, LM Ericsson
Discussion:
Status: **Agreed**

0998   DISC; Rate Control Handling in MGW during TrFO, LM Ericsson
Discussion:
Status: **Noted**

1066   CR 23.153 073 Rel-5; Definition of optimisation mode parameter, Siemens
Discussion:
Status:

8.6 Any Other Business for Release 5 and earlier

8.6.1 Mc Interface

0948   CR 29.232 062 Rel-; Correction of Procedure "Activate Voice Processing Function",
Siemens
Discussion:
Status: **Revised to N4-0401157**

1157   CR 29.232 062r1 Rel-; Correction of Procedure "Activate Voice Processing Function",
Siemens
Discussion:
Status: **Agreed**

0949   CR 29.232 063 Rel-5; Correction of Procedure "Activate Voice Processing Function",
Siemens
Discussion:
Status: **Agreed**

1054   CR 29.232 064 Rel-5; Provisioning Of Base Root package properties, LM Ericsson
Discussion:
Status: **Agreed**

1055 CR 29.232 065 Rel-5; Service Change Address , LM Ericsson
Discussion:
Status: **Agreed**

1056 CR 29.232 066 Rel-5; Use Of Event Buffers, LM Ericsson
Discussion:
Status: **Agreed**

1057 CR 29.232 067 Rel-5; Digit maps, LM Ericsson
Discussion:
Status: **Agreed**

1058 CR 29.232 068 Rel-5; IP Secured Transport, LM Ericsson
Discussion:
Status: **Agreed**

1059 CR 29.232 069 Rel-5; Use Of Audit Value, LM Ericsson
Discussion:
Status: **Agreed**

1060 CR 29.232 070 Rel-5; Commands Requests Per Transaction, LM Ericsson
Discussion:
Status: **Revised to N4-0401095**

1095 CR 29.232 070r1 Rel-5; Commands Requests Per Transaction, LM Ericsson
Discussion:

Nokia: Limitation to 2Command request per action is to small.
Nokia challenged that the CR is essential for Rel-5.
Nokia: Is Legal interception covered in 29.232?
Ericsson: Yes by the topology.

Status: **Withdrawn**

1061 CR 29.232 071 Rel-5; Message Length Limit, LM Ericsson
Discussion:
Status: **Revised to N4-041158**

1158 CR 29.232 071r1 Rel-5; Message Length Limit, LM Ericsson
Discussion:

Lucent can't accept the CR as an essential correction. There are no need to limit the size of the message. Some audit messages exceeds this size.
Ericsson: "Shall" is changed as "should" before octet.
Status: **Revised to N4-041223**

1223 CR 29.232 071r2 Rel-5; Message Length Limit, LM Ericsson
Discussion:

This was email approval
Lucent: We have discussed the issue of the message length limit within Lucent and we feel we cannot accept even the change to should for this limitation. This means it is strongly recommended in standards terms, since ' we have found that certain messages can exceed these limitations and these may be used infrequently but regularly this may lead to incompatibility issues.

We really don't think that this limitation should be imposed by 3GPP - Given that ITU-T H.248 doesn't impose this limitation.

Lucent formally have to reject this CR 29.232 071

Ericsson: It is was clear from the meeting that in general such load on the interface should be avoided. Clearly we should not have an interface that is unnecessarily flexible as interoperability will be impossible. It makes no sense to implement the entire H.248 protocol in all its flexibility - that is not its purpose - it is a base protocol from which applications can be constructed. H.248 does not consider what type of network it is to be used in. I appreciate that currently we don't restrict this but we should also specify some recommendations to prevent implementations from adversely affecting the network characteristics.

Ericsson: As we already mandate the use of M3UA for networks that interwork with ATM and IP and these shall then have to limit their message lengths to 4K then I guess this change could be a note to such transport (but the SCTP transport does not need to have this limit) ?

Status: **Rejected after Email approval period.**

1062 CR 29.232 072 Rel-5; Use Of Statistics, LM Ericsson
Discussion:
Status: **Revised to N¤-0401159**

1159 CR 29.232 072r1 Rel-5; Use Of Statistics, LM Ericsson
Discussion:
Status: **Agreed**

1063 CR 29.232 073 Rel-5; Update of H.248.1 version to version 2., LM Ericsson
Discussion:

Nokia: It needs to be checked regarding Q1950 if there are an influences if we set the proposed date for Q1950 and also for version 2 of H248.

Status: **Revised to N4-041160**

1160 CR 29.232 073r1 Rel-5; Update of H.248.1 version to version 2., LM Ericsson
Discussion:

After discussion CN4 agreed in principle referencing version 2 of H248 and Q1950 (12/2002) is accepted but it needs to be checked if other parts of the specification is effected, they should be covered as well.

Status: **Withdrawn**

1064 CR 29.232 074 Rel-5; Termination Restoration, LM Ericsson
Discussion:
Status: **Agreed**

8.6.2 Early UE handling

1017 CR 29.002 741 Rel-5; Addition of UESBI-Iu parameter to Forward Access Signalling, Nokia
Discussion:

Ericsson: Signalling we do in E-interface should be minimalist and we should avoid changed on interface if not necessary. This can happened only in minor case. This in not described in stage 2

Meeting agreed this is not essential correction for Rel-5. The correction is not needed Rel-6 either.

Status: **Rejected**

1018 CR 29.002 742 Rel-6; Addition of UESBI-Iu parameter to Forward Access Signalling, Nokia

Discussion:

Ericsson: We should avoid add parameters in MAP-interface which are not critical.

Vodafone: Would like to see this change in Rel-6.

Status: **Withdrawn**

9 GSM maintenance (Release 98 and earlier)

10 AOB

Deadlines for Email approval

Documents should be available till 23rd August 2004 18:00 CET.

Objections shall be raised till 27th August 2004 18:00 CET.

11 Update of the Work Plan

0870 Work Plan, MCC

Discussion:

Action point to MCC: Subscriber and equipment trace have to be added in Work Plan.

Status: **Noted**

12 Future meetings

0871 Future Meetings, MCC

Discussion:

Status: **Revised to N4-041101**

1101 Future Meetings, MCC

Discussion:

Status: **Noted**

13 Check of approved output documents

0867 List of approved output documents, CN4 chairman

Discussion:

Status: **Agreed**

14 Closing of the meeting (16:00 Friday)

ANNEX A: OUTPUT MATERIAL

A.1 Liaisons Approved

Tdoc	Tdoc Title	LS to	LS cc	LS Attachment
N4-041111	Reply LS on the flexibility of filtering of register request	SA2 CN1		N4-041100 N4-041116
N4-041115	LS on mapping of cause codes for no radio resources available and for load higher in target cell	RAN3 GERAN2		N4-040901 N4-040892
N4-041123	LS Response on LS on Assignment of the Diameter codes and identifiers	SA5		

N4-041133	LS on RIM transparent routing	RAN3 GERAN2 SA2		N4-041132
N4-041166	LS on Generic Authentication Architecture (GAA)	SA2	SA3	
N4-041192	Renumbering of 3GPP specific AVP codes	SA5		N4-041210
N4-041193	LS on 'SMS Fraud countermeasures	SA3	T2	N4-040959
N4-041201	Output LS on Supporting RADIUS/DIAMETER Protocol at Wd Interface	SA2	SA5	
N4-041202	LS on Request for end to end example showing how the Liberty Alliance security framework fits the 3GPP GUP security requirements	SA3		
N4-041203	Reply LS on Clarification of TMGI format	SA1, RAN2	SA2, CN1	
N4-041204	LS on Evaluation of the alternatives for SMS fraud countermeasures	GSM-A IREG, GSM-A SG	SA3	

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

Tdoc # N4-04	Title	Source	Notes
1168	TS 29.109 2.0.0	Nokia	Raised to version 2.0.0 Will be send for approval to plenary
1200	TS 29.234 2.0.0	Nokia	Raised to version 2.0.0 Send for approval to CN plenary
1220	TS 29.332 2.0.0	Siemens	Raised to version 2.0.0 Will be send for information to plenary

A.3   Approved updated WIDs send to plenary

TDoc # N4-04	Title	Source	Result
1224	WID Rel-6; Trace Management, stage 3, network, update	Nokia	Approved

A.4   Endorsed WIDs

TDoc # N4-04	Title	Source	Result
0947	WID; Protocol impact from providing IMS services via fixed broadband	Siemens	Endorsed
1069	WID Rel-6; MBMS WID Update	Ericsson	Endorsed
1076	WID; Enhancements of VGCS in public networks for communication of public authority officials	Siemens	Endorsed
1077	WID: Revision of Network Sharing stage 3	TeliaSonera	Endorsed

A.5 Approved CRs

TDoc # N4-04	Title	Source	Result
0924	CR 29.229 056 Rel-6; Optimization of User Profile Download	Siemens	Agreed
0926	CR 23.018 141r1 Rel-6; Pre-Paging Resource Optimization	Siemens	Agreed
0928	CR 29.078 380 Rel-6; Support of User-to-User Information (UUI) in CAMEL InitialDP operation	Nortel Networks, Siemens	Agreed with condition (SA1 CR)
0929	CR 29.002 739 Rel-6; Export of UU-Data data type	Nortel Networks, Siemens	Agreed with condition (SA1 CR)
0932	CR 23.078 731 Rel-6; Correcting status in the procedure CAME_MT_CTR(sheet 4)	HUAWEI	Agreed
0933	CR 23.078 732 Rel-6; Redundantly modifying call parameter in CAMEL_MT_GMSC_Notify_CF	HUAWEI	Agreed
0934	CR 23.078 733 Rel-6; Correcting SDL of Process CS_gsmSSF(sheet 7)	HUAWEI	Agreed
0939	CR 23.278 047 Rel-5; Correction of Check_Criteria Procedure names referenced in Process imcnSSF	Lucent Technologies	Agreed
0946	CR 29.060 501 Rel-6; Alignment and enhancement of the "RAT Type" IE	Vodafone, Nortel Networks	Agreed
0949	CR 29.232 063 Rel-5; Correction of Procedure "Activate Voice Processing Function"	Siemens	Agreed
0961	CR 29.060 502 Re; Corrections to charging information IEs	Vodafone	Agreed
0962	CR 23.003 089 Rel-6; Background of and procedures for the ".3gppnetwork.org" domain name	Vodafone	Agreed
0965	CR 29.229 057 Rel-5; Simplification of the User Profile Split concept	Vodafone, Siemens, Nokia, Nortel, Lucent	Agreed
0966	CR 29.229 058 Rel-6; Simplification of the User Profile Split concept	Vodafone, Siemens, Nokia, Nortel, Lucent	Agreed
0989	CR 29.230 001 Rel-6; Correction of Charging application reference	Nokia	Agreed
0993	CR 29.060 505 Rel-6; Error Indication during an ongoing MBMS data transfer	NTT DoCoMo	Agreed
0994	CR 23.007 012 Rel-6; Error Indication during an ongoing MBMS data transfer	NTT DoCoMo	Agreed
0995	CR 29.060 506 Rel-6; Addition of Recovery IE in MBMS	NTT DoCoMo	Agreed
0996	CR 23.007 013 Rel-6; Restoration of GSNs in MBMS	NTT DoCoMo	Agreed
1020	CR 23.081 008 Rel-6; Editorial correction of table definition	Ericsson	Agreed
1021	CR 29.002 743 Rel-6; Wrong SDL flow page implemented	Ericsson	Agreed
1024	CR 23.078 737 Rel-6; Correction to CAP SCI for calls with multiple CAP dialogues	Ericsson	Agreed
1025	CR 29.078 383 Rel-6; Correction to usage of ACM for CAP ETC and CAP CTR	Ericsson	Agreed
1026	CR 23.078 738 Rel-6; Correction to ICA_MSC1 and CAMEL_ICA_MSC2	Ericsson	Agreed
1027	CR 23.078 739 Rel-6; Removal of Int_O_Exception from CAMEL_OCH_MSC2 and CAMEL_MT_GMSC_DISC5	Ericsson	Agreed
1028	CR 23.078 740 Rel-6; Correction to CAMEL_Modify_CUG_Info	Ericsson	Agreed

1029	CR 29.078 384 Rel-6; Correction to Cancel procedure description	Ericsson	Agreed
1030	CR 23.078 741 Rel-6; Correction to CAMEL_EXPORT_LEG_MSC procedure	Ericsson	Agreed
1032	CR 23.078 743 Rel-6; Correction to CS_gsmSSF for EDS	Ericsson	Agreed
1033	CR 23.078 744 Rel-6; Correction to CS_gsmSSF for Tcp expiry	Ericsson	Agreed
1034	CR 23.078 745 Rel-6; Correction to Handle_ACR procedure for Tccd timer	Ericsson	Agreed
1036	CR 23.078 747 Rel-6; Correction to any Time Interrogation	Ericsson	Agreed
1037	CR 29.078 385 Rel-6; Correction to SplitLeg ASN.1 description	Ericsson	Agreed
1038	CR 29.078 386 Rel-6; Correction to Apply Charging Report procedure	Ericsson	Agreed
1039	CR 29.078 387 Rel-6; Correction to Assist Request Instructions procedure	Ericsson	Agreed
1040	CR 29.078 388 Rel-6; Correction to Call Information Request and Report	Ericsson	Agreed
1041	CR 29.078 389 Rel-6; Correction to Tssf timer setting for SMS control	Ericsson	Agreed
1054	CR 29.232 064 Rel-5; Provisioning Of Base Root package properties	LM Ericsson	Agreed
1055	CR 29.232 065 Rel-5; Service Change Address	LM Ericsson	Agreed
1056	CR 29.232 066 Rel-5; Use Of Event Buffers	LM Ericsson	Agreed
1057	CR 29.232 067 Rel-5; Digit maps	LM Ericsson	Agreed
1058	CR 29.232 068 Rel-5; IP Secured Transport	LM Ericsson	Agreed
1059	CR 29.232 069 Rel-5; Use Of Audit Value	LM Ericsson	Agreed
1064	CR 29.232 074 Rel-5; Termination Restoration	LM Ericsson	Agreed
1065	CR 29.060 075 Rel-6; Handling of ciphering and integrity keys at inter-SGSN RAU	Siemens	Agreed
1070	CR 29.230 002 -; Correction of the Application-Id code	Ericsson	Agreed
1071	CR 29.229 060 Re; Correction of the Application-Id code	Ericsson	Agreed
1072	CR 29.229 061 Rel-6; Correction of the Application-Id code	Ericsson	Agreed
1073	CR 29.329 048 Rel-5; Correction of the Application-Id code	Ericsson	Agreed
1074	CR 29.329 049 Rel-6; Correction of the Application-Id code	Ericsson	Agreed
1100	CR 29.328 094r1 Rel-6; Triggering initial REGISTER messages	Nokia	Agreed
1116	CR 29.228 121r2 Rel-6; Triggering initial REGISTER messages	Nokia	Agreed
1120	CR 29.228 118 Re; XML versioning	Nokia	Agreed
1121	CR 29.328 088 Rel-6; XML versioning	Nokia	Agreed
1122	CR 29.228 122 Rel-6; Optimization of User Profile Download	Siemens	Agreed
1126	CR 29.230 003 Removal of User Data Request Type AVP	Vodafone	Agreed

1127	CR 29.010 108 Rel-6; Addition of cause code mapping to the routing area update procedure	Vodafone, Orange, Nokia	Agreed
1128	CR 29.002 732r1 Rel-6; Pre-Paging Resource Optimization	Siemens	Agreed
1129	CR 23.012 016 Rel-6; Clarification of the Automatic Device Detection feature	Ericsson, Vodafone	Agreed
1132	CR 29.060 507r1 Rel-6; RIM transparent routing	Nokia	Agreed
1135	CR 29.060 509r1 Rel-5; SGSN Context Request and IMSI	LM Ericsson	Agreed
1136	CR 29.060 512 Rel-6; SGSN Context Request and IMSI	LM Ericsson	Agreed
1145	CR 23.003 091 Rel-6; Introduction of re-authentication identity	Ericsson	Agreed
1157	CR 29.232 062 Rel-; Correction of Procedure "Activate Voice Processing Function"	Siemens	Agreed
1159	CR 29.232 072 Rel-5; Use Of Statistics	LM Ericsson	Agreed
1161	CR 29.228 123 Rel-5; Simplification of the User Profile Split concept	Vodafone, Siemens, Nokia, Nortel, Lucent	Agreed
1162	CR 29.228 124 Rel-6; Simplification of the User Profile Split concept	Vodafone, Siemens, Nokia, Nortel, Lucent	Agreed
1174	CR 29.278 006-rev1 Rel-5; Correction to ERB pre-condition for IM-SSF state	Lucent Technologies	Agreed
1178	CR 23.078 730-rev1 Re; Editorial correction	HUAWEI	Agreed
1181	CR 23.018 143-rev1 Rel-6; Add "CAMEL_Stop_TNRy"in Procedure OG_Call_Setup _MSC (sheet 4)	HUAWEI	Agreed
1182	CR 23.078 748-rev2 Rel-6; Clarification on Outstanding Request Counter (ORC) handling at EDP-R or TDP-R resumption	Ericsson	Agreed
1183	CR 23.078 729-rev2 Rel-6; Support of User-to-User Information (UUI) in CAMEL InitialDP operation	Nortel Networks, Siemens	Agreed
1184	CR 29.078 381-rev2 Rel-5; Clarification on the handling of operation invocation when LinkedID is missing although expected	Ericsson	Agreed
1185	CR 29.078 382-rev1 Rel-6; Clarification on the handling of operation invocation when LinkedID is missing although expected	Ericsson	Agreed
1186	CR 23.078 735-rev2 Rel-6; Appended a note in Process CAMEL_ICA_MSC	HUAWEI	Agreed
1196	CR 29.010 109 Rel-5; Addition of cause code mapping to the intersystem handover	Vodafone	Agreed
1197	CR 29.010 110 Rel-6; Addition of cause code mapping to the intersystem handover	Vodafone	Agreed
1205	CR 23.008 133r2 Rel-6; GAA Domain Data structure	Nokia	Agreed
1207	CR 29.060 510 Rel-6; Introduction of a transparent container field for MBMS	LM Ericsson	Agreed
1208	CR 29.228 119r2 Rel-5; Use of regular expressions	Nokia	Agreed
1209	CR 29.228 120r1 Rel-6; Use of regular expressions	Nokia	Agreed
1210	CR 29.230 004r1 Re-numbering of 3GPP specific AVP codes	Nortel Networks	Agreed
1212	CR 29.329 050 Rel-5; Re-numbering of 3GPP specific AVP codes	Nortel Networks	Agreed
1213	CR 29.329 051 Rel-6; Re-numbering of 3GPP specific AVP codes	Nortel Networks	Agreed
1214	CR 29.229 062 Rel-5; Re-numbering of 3GPP specific AVP codes	Nortel Networks	Agreed

1215	CR 29.229 063 Rel-6; Re-numbering of 3GPP specific AVP codes	Nortel Networks	Agreed
1218	CR 29.232 075 Rel-5; 3GUP package corrections	Alcatel, LM Ericsson	Agreed
1219	CR 29.232 076 Rel-4; 3GUP package corrections	Alcatel, LM Ericsson	Agreed

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