

8th – 10th September 2004 palm Springs, CA, US

Source: CN4 Chairman
Title: Status report from CN4 to TSG-CN Plenary Meeting #25
Agenda item: 6.1.x
Document for: INFORMATION

1 Introduction

CN4 have had two meetings since the last CN plenary meeting: CN4#23bis was held in Helsinki, Finland, on 21 – 23 June 2004, kindly hosted by the Nokia. This meeting was focused on IMS, WLAN and GUP. CN4#24 was held in Sophia Antipolis, France on the 16-20 August, kindly hosted by the European friends of 3GPP. We have handled the CAMEL related contributions (45) in parallel session due to the high number. This gives one the vice chairs by [Toshiyuki Tamura](#) (NEC) the opportunity to chair some sessions. The other vice chair [Peter Wild](#) (Vodafone) had as well the opportunity to chair a session. [Kimmo Kymäläinen](#) (MCC) was there as usual, making sure we did things properly. We agreed **103** change requests, **14** output liaison statements, **1** revised work item description and agreed to send **3** specifications for approval. There were **42(18** at the #23bis meeting) participants representing **28(11** at the #23bis meeting) companies, plus Kimmo for the MCC.

The draft meeting report of CN4#24 was distributed to the CN4 [email list](#); it is still under review. The draft meeting report of CN4#24 and the meeting report of CN4#23bis are provided in Tdoc [NP-040390](#), [NP-040389](#) for information. The CN4 outgoing liaison statements are provided in Tdoc [NP-040391](#) for information.

2 Management summary

2.1 Release 6

Generic User Profile

We agreed on a couple of changes on the description of main concept authorization and SOAP related definitions. In a drafting session an example how the reference points Rg and Rp should be described. The XML schema will be added when the textual part is assumed to be nearly completed.

We continued the discussion on Metadata Management for Rp/Rg interfaces. Two proposals are on the table:

- to introduce 3 new messages add, list and delete Metadata (or)
- to enhance the existing messages for Metadata

The response Liaison statements from SA1 and SA2 on this topic did not give any guidance.

New revision of the GUP stage 3 specification is produced TS 29.240 0.5.0 is not seen as ready for information for presentation to plenary.

CN4 has taken over the responsibility of the former T2 specification:

- TS 23.241 is a kind of stage 2.5 and it was approved at the last T2 plenary. Editor ship is moved to T-Mobile (Yvette Koza)
- TS 24.241 is more or less only the skeleton of a specification with view content, this specification is still looking for an editor.

We discussed the issue how liberty alliance security covers GUP security requirements. We have send an LS to SA3, requesting an end to end example showing how Liberty alliance security framework fits to GUP security requirements.

The Current expected completion dates are:

- CN#26: 29.240 is expected to be send to plenary for information
- CN#27: 29.240 is expected to be send to plenary for approval

The following open issues are identified:

- bandwidth saving and performance; a solution could be the compression method provided by ITU converting XML schema to ASN.1
- XML schema definition (infrastructure and user profile 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
- alignment of 23.241 and 29.240 (how and when to refer 23.241 in 29.240)

Bandwidth saving and performance; a solution could be the compression method provided by ITU converting XML schema to ASN.1 is seen as a topic which might be postponed (slip out of release 6).

Subscriber Certificates

We agreed to add a section in 23.008 on the data related to Generic Authentication Architecture (NP-040415).

We agreed on alignments of stage 3 (29.109) with stage 2 (33.220) based on the guidance given by SA3.

29.109 is agreed to be send to plenary for approval (NP-040410).

The following open issues are identified:

- Is GAA (generic authentication architecture) a domain on itself
- XML schema in the annex needs to be replaced by a table which lists all the parameters.
- XML schema shall be add as an XSD file to the zip file of the specification (this is agreed to be done when the specifcationis under change control)

Wireless LAN interworking

We agreed changes on 23.003 to introduce a description on temporary identities and on the format of Decorated NAI (network access indicator) (NP-040413)

The format is:

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

We agreed on a couple of enhancements on 29.234 on introduction of SLF (Server Locator Function) into the WLAN architecture, (Dw reference point) and we also introduced some definition on the usage of messages on Wm reference point.

The requirement for the support of MSISDN on the Wa reference point was not clear. SA5 is asked for guidance.

RADIUS is agreed as an option for Wd reference point.

The resulting new draft is agreed to be send to plenary for approval (NP-040404).

CN4 proposes a error cause for the case when a Subscriber is disconnected by Online Charging System. The question was raised if the HSS needs to be informed about the reason of a User that has been deregistered. SA2 is asked for clarification of the requirement.

The following open issues are identified:

- 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

Online charging description is identified as a functionality which might be shifted to a later release.

Subscriber and equipment Trace

We discussed a set of CRs of enhancements for Mc interface, GTP and MAP related to trace control and configuration data. Due to the fact that the stage 2 is still not approved the CRs are postponed to the next meeting. CN4 is waiting for a detailed input from SA5 (approved stage2).

Current expected completion date:

- CN#26.

Mn interface protocol (NP-040403)

We agreed a set of enhancements to the current draft of 29.332. With the enhancements 29.332 is agreed to be sent to plenary for approval.

The following open issues are identified:

- Use of topology descriptor
- Virtual MGW
- Generals on packages needs to be checked.

Mp interface protocol

No contributions till now, Mn interface specification might be used as basis.

Expected time frame for 29.333:

- For information CN#27
- For approval CN#28

GPRS (NP-040408)

RAN Information Management transparent routing is introduced by adding a new parameter RIM routing address.

We agreed on changing the handling of ciphering and integrity keys at inter-SGSN RAU. Instead of the keys currently in use, the old SGSN shall pass the keys belonging to the security context agreed with the MS during the latest successful authentication and ciphering procedure to the new SGSN. This is an alignment with 33.102 and 24.008.

No open issues are identified in the moment for Rel-6.

MBMS

We agreed some corrections on messages introduced for MBMS which are in NP-040402.

The length of MBMS service ID (2 or 3 octets) is an open issue at RAN2.

SA3 informed CN4 that SA3 is planning to send a security specification relevant for MBMS for approval to the next plenary. CN4 has to check the dependency to their specifications.

Expected completion date

- CN#26

The following open issues are identified:

- Length of MBMS-service ID,
- Security, alignment with 3GPP TS 33.246

MAP

Map security was in principle agreed. Vodafone (UK) raises the question if IP-sec or MAP-sec should be used to secure MAP messages. An LS is sent to GSMA and SA3 to ask for advise. The Work item will not be send to

The proposal from SA3 to use TCAP handshaking to avoid some cases of SMS fraud was discussed and an LS is send back to SA3 indicating that it is in principle possible but it is SA3 who have to decide if CN4 has to mandate TCAP hand shaking for MT-forward-SM. The mandate of TCAP handshaking would require that all SMS-GMSCs have to use their own address as source when sending MT-forward-SM messages. No consensus was reached to mandate the TCAP handshaking mechanism in CN4.

CAMEL phase 4+

It was proposed to add a parameter regarding the duration of play announcements on CAP protocol. The duration can be used to play the duration information to the user in such operations as PlayAnnouncement and PromptAndCollectUserInformation the CR on 29.078 was rejected due to a backward incompatible change. Stage 1 requirement was missing as well.

It is conditionally agreed to add the User-to-User Service activation request and User-to-User Information parameters to the InitialDP operation (NP-040405). SA plenary has to agree the related stage 1 CR.

We agreed some correctiones on stage 2 and 3 of CAMEL which are in NP-040406.

At the end of the CAMEL session we maintained the open issue received from last CN2 meeting (NP-040xxx).

-No open Topics for Rel-6 but still some for Rel-5.

Pre-paging (NP-040407)

CRs on Pre-Paging resource optimization were approved as an optional Rel-6 enhancement.

Handover (NP-040409)

The current 29.010 does not specify any cause code mapping for the routing area update procedure. We agreed to add one starting from Release 6 .

Diameter based protocol Issues (Version control)

A mechanism which allows the introduction of standardized (and proprietary) extensions to the 3GPP Rel-5 Diameter Applications (Cx, Sh) in future 3GPP releases (starting from Rel-6) was in principle agreed. This mechanism defines extensions to the Rel-5 standard to be optional and backward compatible and allows partial implementation of feature sets introduced in future releases. The relevant CRs are for approval in NP-040395.

Diameter coordination

We agreed on Re-numbering of 3GPP specific AVP code to enable backwards compatability with other Diameter applications. Cx-AVP numbers 1 to 299 which clash with RADIUS were re-numbered into the range starting from 600. The AVP codes from 1 to 255 are reserved for backwards compatability with RADIUS. CRs to introduce the new numbering are provided in NP-040412.

IMS2; HSS – CSCF (Cx) & SLF - CSCF (Dx) & HSS - SIP AS (Sh) interfaces(NP-040401)

CRs on triggering all/initial REGISTER requests were approved as a compatible Rel-6 extension to the Cx interface as requested by SA2 (flexibility of filtering of register requests).

CRs on optimization of user profile download were approved as a compatible Rel-6 extension to the Cx interface. These allow to download identifiers of sets of iFCs rather than sets of iFC and thus save signalling bandwidth and memory capacity.

No open issues for Rel-6 are identified at the moment.

2.2 Release 5 and earlier

We have no CRs for R99 onwards and only 1 set of CRs for Rel-4 onwards all other CRs starting with Rel-5.

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

Public-Identity is unspecified for the Sh interface. It is agreed that either a single Public Identity or MSISDN can be used in Grouped User-Identity AVP (NP-040394).

Significant errors have been identified in the current concept of user profile split. CRs on simplification of the User Profile Split concept were approved for Rel-5. In fact the split into registered and unregistered part of the user profile becomes optional and need not to be supported (NP-040396).

CRs clarifying the use of Regular Expressions within Initial Filter Criteria were approved for Rel-5. These clarify the exact format of the SIP Header and the Session Description within the Service Profile Trigger. It was noted that the exact format for Request-URI and SIP Method is still missing (NP-040416)

GPRS (NP-040398)

We agreed on a correction on the support of SGSN pools.

CAMEL

We agreed on corrections of CAMEL on stage 2 and 3 which are in NP-040397.

Handover

RAN3 has agreed to introduce a new cause code “Traffic Load in target cell higher than in source cell” starting from release 5 onwards. For the new cause code a new cause code mapping needs to be introduced in 29.010. The related CRs are in NP-040400.

Mc interface protocol

Ericsson proposed to reference (usage) of H248 version 2 and Q1950 (12/2002). Regarding Q1950 it needs to be checked if there are an influences on the current Mc interface procedures, if we set the proposed date for Q1950 and also for version 2 of H248. After discussion we 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 in the CR.

We identified an open issue regarding threw connection in a context. A description regarding rate control and relocation needs to be added to the specification. This needs further investigation.

We agreed a set of restriction for Rel5 29.232 related to H248. The agreed restriction does not effect the procedures required for Mc interface. They are agreed basicly for interoperability issues (NP040399). To restrict the message length to 4K and to limit the commands per action within a message was not agreed.

We agreed two corrections for REI 4 onwards. They are related to 3GUP package and the definition of echo cancellation parameter (NP-040392).

2.3 GSM

None.

3 Questions for advice and decision

None.

4 Work organisation

4.1 Work Item descriptions

We agreed to update the WID on Trace Management, stage 3 (NP-040411). The object of the work item is clarified in the sense that the signalling based trace activation procedures have to be defined by the CN groups and the management based trace activation procedures are outside the scope of CN groups. Due to the outstanding approval of stage 2 the completion dates are shifted.

Revised WID on MBMS is endorsed by CN4, 23.003 is added because of data structure definition and changed completion date.

Revision of Network Sharing stage 3, Inclusion of Selected CN operator ID parameter organisation of subscriber data 23.008. The related Stage 2 CR is not approved at SA2 there for the stage 3 CR is postponed expected completion date is CN#26.

New WID on Enhancements of VGCS in public networks for communication of public authority officials is endorsed by CN4 (not Release 6 timeframe)

4.2 Review of the work plan

The work plan was updated during the meeting. The updates should be covered in the version of the work plan which is published before CN#24.

5 CN4 meeting calendar

The complete list of meetings is shown in the tables below till the end of 2004 and proposed dates for 2005.

Table 1: CN4 meeting calendar

Date	Meeting	Place	Host
8 - 10 Sep 2004	CN plenary #25	Palm Springs ; US	North American Friends of 3GPP
15 – 19 Nov 2004	CN4#25	Seoul; KR	Samsung
08 -10 Dec 2004	CN plenary #26	Athene, GREECE	European Friends of 3GPP
14-18 Feb 2005	CN4#26	Asia	TBD
09 – 11 March 2005	CN plenary #27	Tokyo; JAPAN	Japanese Friends of 3GPP
25-29 Apr. 2005	CN4#27	North America	
01 – 03 June 2005	CN plenary #28	Tallin; ESTONIA	EF3
15-19 Aug 2005	CN4#28	EU	TBD
21 – 23 Sept. 2005	CN plenary #29	TBD; US	US Friends of 3GPP
31 Oct - 4 Nov	CN4#29	EU	TBD

Date	Meeting	Place	Host
2005			
30 Nov – 2 Dec 2005	CN plenary #30	TBD, MALTA	EF3

6 Change Requests

CN4 produced 101 Change Requests which are submitted for ratification. An overview of the CR packages is provided in Table 3. Corrective CRs to Release 5 and earlier were agreed as critical corrections, unless there is an indication to the contrary.

Table 3: CRs submitted by CN4 for approval at CN #24 (sorted by agenda item)

Tdoc	Agenda	Type	Tdoc Title	WI	Rel
NP-040392	7.11	CR PACK	CRs to Rel-4 on Work Item small Technical Enhancements and Improvements on Mc-Interface	TEI4	Rel-4
NP-040416	8.1	CR PACK	CRs to Rel-5 on Work Item IP-based multimedia services Cx-/Dx-interface	IMS-CCR	Rel-5
NP-040394	8.1	CR PACK	CRs to Rel-5 on Work Item IP-based multimedia services Sh-interface	IMS-CCR	Rel-5
NP-040395	8.1	CR PACK	CRs to Rel-5 and Rel-6 on Work Item IP-based multimedia services (Application version control)	IMS-CCR	Rel-5
NP-040396	8.1	CR PACK	CRs to Rel-5 and Rel-6 on Work Item IP-based multimedia services (User profile split)	IMS-CCR	Rel-5
NP-040412	8.1	CR PACK	CRs to Rel-5 on Work Item IP-based multimedia services AVP renumbering	IMS-CCR	Rel-5
NP-040397	8.3	CR PACK	CRs to Rel-5 on Work Camel 4 and IMS Camel	Camel4/IMS-Camel	Rel-5
NP-040398	8.8	CR PACK	CRs to Rel-5 on Work Item small Technical Enhancements and Improvements on GTP	TEI5	Rel-5
NP-040399	8.9	CR PACK	CRs to Rel-5 on Work Item small Technical Enhancements and Improvements on Mc-Interface	TEI5	Rel-5
NP-040400	8.9	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements and Improvements on cause code mapping	TEI5	Rel-5
NP-040401	9.1	CR PACK	CRs to Rel-6 on Work Item IP-based multimedia services	IMS2	Rel-6
NP-040402	9.8	CR PACK	CRs to Rel-6 on Work Item Multimedia Broadcast and Multicast Service	MBMS	Rel-6
NP-040413	9.17	CR PACK	CRs to Rel-6 on WLAN	WLAN	Rel-6
NP-040405	9.21	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements and Improvements on Camel Rel6 UI in Initial DP message	TEI6	Rel-6
NP-040406	9.21	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements	TEI6	Rel-6

			and Improvements on Camel		
NP-040407	9.21	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements and Improvements on pre-paging	TEI6	Rel-6
NP-040408	9.21	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements and Improvements on GTP enhancements	TEI6	Rel-6
NP-040409	9.21	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements and Improvements on cause code mapping	TEI6	Rel-6
NP-040414	9.21	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements and Improvements	TEI6	Rel-6
NP-040415	9.22	CR PACK	CRs to Rel-6 on Work Item GAA subscriber certificates	SEC1-SC	Rel-6

6.1 Release 5 (and earlier) CRs

Corrective CRs to Release 5 and earlier are **essential corrections**, unless there is an indication to the contrary.

6.1.1 TEI4; Mc Interface (NP-040392); Release 4

Correction on Mc-Interface related to 3GUP package and the definition on activate voice processing function.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.232	062	1	1157	Rel-4	Correction of Procedure "Activate Voice Processing Function"	F	4.8.0
29.232	063		0949	Rel-5	Correction of Procedure "Activate Voice Processing Function"	A	5.8.0
29.232	076	1	1219	Rel-4	3GUP package corrections	F	4.8.0
29.232	075	2	1218	Rel-5	3GUP package corrections	A	5.8.0

6.1.2 TEI5; Mc-Interface (NP-040399); Release 5

Correction on 29.232, Mc-Interface.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.232	064		1054	Rel-5	Provisioning Of Base Root package properties	F	5.7.0
29.232	065		1055	Rel-5	Service Change Address	F	5.7.0
29.232	066		1056	Rel-5	Use Of Event Buffers	F	5.7.0
29.232	067		1057	Rel-5	Digit Maps	F	5.7.0
29.232	068		1058	Rel-5	IP secured transport	F	5.7.0
29.232	069		1059	Rel-5	Use Of Audit Value	F	5.7.0
29.232	074		1064	Rel-5	Termination Restoration	F	5.7.0
29.232	072	1	1159	Rel-5	Use Of Statistics	F	5.7.0

6.1.3 IMS-CCR; Cx/Dx Interface (NP-040416); Release 5

Corrections on IMS Cx-/Dx-interface

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.228	108	3	0845	Rel-5	LIR and services related to unregistered state	F	5.8.0
29.228	109	1	0846	Rel-6	LIR and services related to unregistered state	A	6.3.0
29.228	119	3	1208	Rel-5	Use of regular expressions	F	5.8.0
29.228	120	3	1209	Rel-6	Use of regular expressions	A	6.3.0

6.1.4 IMS-CCR; Sh-interface (NP-040394);

CRs to Rel-5 on Work Item IP-based multimedia services Sh-interface

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.329	042		0781	Rel-5	Incorrect Data-Reference AVP in Subscriber Notification Answer Command	F	5.6.0
29.329	043		0782	Rel-6	Incorrect Data-Reference AVP in Subscriber Notification Answer Command	A	6.1.0
29.329	040	1	0841	Rel-5	Public-Identity is unspecified for the Sh interface	F	5.6.0
29.329	041	1	0842	Rel-6	Public-Identity is unspecified for the Sh interface	A	6.1.0
29.329	044	1	0843	Rel-5	Single Public_Identity required in Grouped User-Identity AVP	F	5.6.0
29.329	045	1	0844	Rel-6	Single Public_Identity required in Grouped User-Identity AVP	A	6.1.0
29.229	060		1071	Rel-5	Correction of the Application-Id code	F	5.7.0
29.229	061		1072	Rel-6	Correction of the Application-Id code	A	6.1.0
29.329	048		1073	Rel-5	Correction of the Application-Id code	F	5.6.0
29.329	049		1074	Rel-6	Correction of the Application-Id code	A	6.1.0

6.1.5 IMS-CCR; application version control (NP-040395); Release 5

These set of CRs are introducing version control handling for the Diameter based reference point (Cx, Sh).

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.229	064	1	0838	Rel-5	Application version control	F	5.7.0
29.229	065	2	0837	Rel-6	Application version control	C	6.1.0
29.329	047		0839	Rel-5	Application version control	F	5.6.0

29.329	046	1	0840	Rel-6	Application version control	C	6.1.0
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6.1.6 IMS-CCR; User profile split (NP-040396); Release 5

Corrections on user profile split for Rel 5 and Rel-6.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.228	123	2	1161	Rel-5	Simplification of the User Profile Split concept	F	5.8.0
29.228	124	2	1162	Rel-6	Simplification of the User Profile Split concept	A	6.3.0
29.229	057		0965	Rel-5	Simplification of the User Profile Split concept	F	5.7.0
29.229	058		0966	Rel-6	Simplification of the User Profile Split concept	A	6.1.0

6.1.7 IMS-CCR; AVP renumbering (NP-040412); Release 5

Renumbering of AVP used within 3GPP to be able to reuse the AVP numbering used by RADIUS.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.230	004	1	1210	Rel-6	Re-numbering of 3GPP specific AVP codes	F	6.0.0
29.329	050	1	1212	Rel-5	Re-numbering of 3GPP specific AVP codes	F	5.6.0
29.329	051	1	1213	Rel-6	Re-numbering of 3GPP specific AVP codes	A	6.1.0
29.229	062	1	1214	Rel-5	Re-numbering of 3GPP specific AVP codes	F	5.7.0
29.229	063	1	1214	Rel-6	Re-numbering of 3GPP specific AVP codes	A	6.1.0

6.1.8 CAMEL 4 and IMS CAMEL (NP-040397); Release 5

Corrections to Rel-5 on the Work of Camel 4 and IMS Camel.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.278	047		0939	Rel-5	Correction of Check_Criteria Procedure names referenced in Process imcnSSF	F	5.5.0
29.278	006	1	1174	Rel-5	Correction to ERB pre-condition for IM-SSF state	F	5.2.0
29.078	381	2	1184	Rel-5	Clarification on the handling of operation invocation when LinkedID is missing although expected	F	5.8.0
29.078	382	2	1185	Rel-6	Clarification on the handling of operation invocation when LinkedID is missing although expected	A	6.2.0

6.1.9 TEI5; GTP (NP-040398); Release 5

Correction to Rel-5 on GTP introduction of SGSN control plane in SGSN context response message in case of P-TMSI mismatch.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.060	509	1	1135	Rel-5	SGSN Context Request and IMSI	F	5.10.0
29.060	512		1136	Rel-6	SGSN Context Request and IMSI	A	6.5.0

6.1.9 Improvements on cause code mapping (NP-040400); Release 5

RAN 3 has agreed to introduce a new cause code " Traffic Load in target cell higher than in source cell", these CRs provide the appropriate cause mapping for the new cause. The RAN CRs are for approval at RAN plenary.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.010	109		1196	Rel-5	Addition of cause code mapping for inter-system handover	F	5.6.0
29.010	110		1197	Rel-6	Addition of cause code mapping for inter-system handover	A	6.3.0

6.2 Release 6 CRs

6.2.1 IMS2; IP based Multimedia services; (NP-040401)

Package of CRs with corrections and improvements for IP-based multimedia services

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.229	056		0924	Rel-6	Optimization of User Profile Download	B	6.1.0
29.228	122	1	1122	Rel-6	Optimization of User Profile Download	B	6.3.0
29.230	001		0989	Rel-6	Correction of Charging application reference	F	6.0.0
29.230	002		1070	Rel-6	Correction of the Application-Id code	F	6.0.0
29.328	094	1	1100	Rel-6	Triggering initial REGISTER messages	B	6.2.0
29-228	121	2	1116	Rel-6	Triggering initial REGISTER messages	B	6.3.0
29.228	118	1	1120	Rel-6	XML versioning	C	6.3.0
29.328	088	1	1121	Rel-6	XML versioning	C	6.2.0
29.230	003		1126	Rel-6	Removal of User Data Request Type AVP	F	6.0.0

6.2.2 MBMS; Multimedia Broadcast and Multicast Service; (NP-040402); Release 6

Corrections on Multimedia Broadcast and Multicast Services

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.060	505		0993	Rel-6	Error Indication during an ongoing MBMS data transfer	F	6.5.0
23.007	012		0994	Rel-6	Error Indication during an ongoing MBMS data transfer	F	6.0.0
29.060	506		0995	Rel-6	Addition of Recovery IE in MBMS	F	6.5.0

23.007	013		0996	Rel-6	Restoration of GSNs in MBMS	F	6.0.0
29.060	510	2	1207	Rel-6	Introduction of a transparent container field for MBMS	B	6.5.0

6.2.3 WLAN; (NP-040278); Release 6

New data definition descriptions related to WLAN.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.003	090	2	0827	Rel-6	Decorated NAI format	B	6.3.0
23.003	091	1	1145	Rel-6	Introduction of temporary identities	B	6.3.0

6.2.4 TEI6; CAMEL UII in Initial DP message (NP-040405); Release 6

Enhancement to allow the transport of UII in Initial DP message. Stage1 CR is not agreed.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.078	380		0928		Support of User-to-User Information (UII) in CAMEL InitialDP operation	B	6.2.0
29.002	739		0929		Export of UU-Data data type	B	6.6.0
23.078	729	2	1183		Support of User-to-User Information (UII) in CAMEL InitialDP operation	B	6.2.0

6.2.5 TEI6; CAMEL; (NP-040406); Release 6

Corrections on Camel 4 enhancements

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.078	731		0932	Rel-6	Correcting status in the procedure CAMEL_MT_CTR(sheet 4)	F	6.2.0
23.078	732		0933	Rel-6	Redundantly modifying call parameter in CAMEL_MT_GMSC_Notify_CF	F	6.2.0
23.078	733		0934	Rel-6	Correcting SDL of Process CS_gsmSSF(sheet 7)	F	6.2.0
23.081	008		1020	Rel-6	Editorial correction of table definition	F	5.2.0
23.078	737		1024	Rel-6	Correction to CAP SCI for calls with multiple CAP dialogues	F	6.2.0
29.078	383		1025	Rel-6	Correction to usage of ACM for CAP ETC and CAP CTR	F	6.2.0
23.078	738		1026	Rel-6	Correction to CAMEL_ICA_MSC1 and CAMEL_ICA_MSC2	F	6.2.0
23.078	739		1027	Rel-6	Removal of Int_O_Exception from CAMEL_OCH_MSC2 and CAMEL_MT_GMSC_DISC5	F	6.2.0
23.078	740		1028	Rel-6	Correction to CAMEL_Modify_CUG_Info	F	6.2.0

29.078	384		1029	Rel-6	Correction to Cancel procedure description	F	6.2.0
23.078	741		1030	Rel-6	Correction to CAMEL_EXPORT_LEG_MSC procedure	F	6.2.0
23.078	743		1032	Rel-6	Correction to CS_gsmSSF for EDS	F	6.2.0
23.078	744		1033	Rel-6	Correction to CS_gsmSSF for Tcp expiry	F	6.2.0
23.078	745		1034	Rel-6	Correction to Handle_ACR procedure for Tccd timer	F	6.2.0
23.078	747		1036	Rel-6	Correction to any Time Interrogation	F	6.2.0
29.078	385		1037	Rel-6	Correction to SplitLeg ASN.1 description	F	6.2.0
29.078	386		1038	Rel-6	Correction to Apply Charging Report procedure	F	6.2.0
29.078	387		1039	Rel-6	Correction to Assist Request Instructions procedure	F	6.2.0
29.078	388		1040	Rel-6	Correction to Call Information Request and Report	F	6.2.0
29.078	389		1041	Rel-6	Correction to Tssf timer setting for SMS control	F	6.2.0
23.078	730	1	1178	Rel-6	Editorial correction	D	6.2.0
23.018	143	1	1181	Rel-6	Add "CAMEL_Stop_TNRy" in Procedure OG_Call_Setup_MSC (sheet 4)	F	6.2.0
23.078	748	2	1182	Rel-6	Clarification on Outstanding Request Counter (ORC) handling at EDP-R or TDP-R resumption	F	6.2.0
23.078	735		1186	Rel-6	Appended a note in Process CAMEL_ICA_MSC	F	6.2.0

6.2.6 TEI6; Pre-paging; (NP-040407); Release 6

This package Introduces resource optimization in case of pre paging.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.018	141	1	0926	Rel-6	Pre-Paging Resource Optimization	B	6.2.0
29.002	732	2	1128	Rel-6	Pre-Paging Resource Optimization	B	6.6.0

6.2.7 TEI6; GTP; (NP-040408); Release 6

This package contains some corrections and enhancements on GTP

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.060	501		0946	Rel-6	Alignment and enhancement of the "RAT Type" IE	C	6.5.0
29.060	502		0961	Rel-6	Corrections to charging information IEs	F	6.5.0
29.060	511		1065	Rel-6	Handling of ciphering and integrity keys at inter-SGSN RAU	F	6.5.0
29.060	507	1	1132	Rel-6	RIM transparent routing	F	6.5.0

6.2.8 TEI6; Cause code mapping; (NP-040409); Release 6

Enhance,ment of cause code mapping.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.010	108	2	1127	Rel-5	Addition of cause code mapping to the routing area update procedure	F	6.3.0

6.2.9 TEI6; AOB (NP-040414); Release 6

Technical Enhancements and Improvements on Rel-6

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.003	089		0962	Rel-6	Background of and procedures for the ".3gppnetwork.org" domain name	B	6.3.0
29.002	743		1021	Rel-6	Wrong SDL flow page implemented	D	6.6.0
23.012	016	1	1129	Rel-6	Clarification of the Automatic Device Detection feature	F	6.1.0

6.2.10 SEC1-SC; GAA subscriber certificates (NP-040415); Release 6

Enhancement related to GAA subscriber certificates. The definition of data structures of GAA is added in 23.003.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
23.008	133	3	1205	Rel-6	GAA Domain Data Structure	B	6.2.0

7 Draft Technical specifications and reports

Stage 3 release 6 technical specifications send for approval to plenary:

NP-040403; Media Gateway Control Function (MGCF) – IM Media Gateway 3GPP TS 29.332 v2.0.0 ; IMS2-Mn;

NP-040404; 3GPP TS 29.234 v2.0.0 ; WLAN;

NP-040410; Generic Authentication Architecture 3GPP TS 29.109 v2.0.0;

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