3GPP TSG CN Plenary Meeting #23   **NP-040041**

08th - 10th March 2004. Phoenix, AZ, US.

Source: **CN4 Chairman**

Title: **Status report from CN4#22 to TSG-CN Plenary Meeting #23**

Agenda item: **6.1.4**

Document for: **INFORMATION**

1   Introduction

CN4 have had one meeting since the last CN plenary meeting: CN4#22 was held in Atlanta, US, on 16 - 20 February, kindly hosted by the North American friends of 3GPP. We had one parallel session in this meeting which was chaired by the CN4 vice chairman, Peter Wild (Vodafone). Kimmo Kymäläinen (MCC) was there as usual, making sure we did things properly. There were **244** documents tabled at the start of the meeting, and by the time we reached the close of the meeting the count had risen to **361**. We agreed **77** change requests, **12** output liaison statements, **1** new work item description. There were **41** participants representing **28** companies, plus Kimmo for the MCC.

The draft meeting report of CN4#22 was distributed to the CN4 email list; it is still under review. It is provided in Tdoc NP-040042 for information. The CN4 outgoing liaison statements are provided in Tdoc NP-040043 for information.

2   Management summary

2.1   Release 6

We agreed one new work item on Trace Management, stage 3, network related (NP-040062).

Presence (NP-040056)

The presence network agent will use the same national subsystem number as gsmSCF (MAP) and IM-SSF for the Ph, Pc and Pg reference point between the Presence Network Agent and the: HSS/HLR, the MSC/VLR and the SGSN. CR on MAP specification is agreed to support presence service on MAP based interfaces.

Presence is now finalized from CN4 perspective.

Generic User Profile

The CN4 working assumption for the GUP interfaces is based on Nokia's contribution (N4-040125). The interfaces will be defined by referencing the relevant Liberty Alliance specifications, with some 3GPP GUP specific enhancements when needed.

The CN4 working assumption for the component model is based on Lucent contribution (N4-040208). There exists a GUP schema for the generic user profile. Components are defined as navigation paths over this schema. The working name for the navigation language used to define components is GUP Component Language (aka GCL, XPATH).

The GCL language shall be used for the various GUP procedures (e.g. query, update, subscribe). The exact details of GCL are left for further study.

Diameter based protocol Issues

IETF has provided 3GPP with a rage of command codes and assumes that 3GPP is dealing with them in the same manner as IETF is doing it (same code is always used in the same sense on the different reference points). IETF also specifies that per vendor ID AVP codes should be unique. The Number of reference points which are

based on diameter is increasing (and split over 3 WGs now) and to coordinate the work within 3GPP is getting difficult. AVP's are usually identified by vendor ID and AVP code, application ID's assigned to each interface by IANA are not taken into account when evaluating the AVP. Therefore CN4 has agreed to create a specification which is used to do the coordination.

The new specification shall contain:

- the AVP codes and the general definitions of the corresponding AVP's and
- the allocation of the command codes within the range 300-313 with a reference to the originator TS of each command's ABNF
- the values of the Experimental-Result-Code AVP with their corresponding descriptions
- a list of used application identifiers of 3GPP

Related contribution are expected for the next meeting

HSS – CSCF (Cx) & SLF - CSCF (Dx) & HSS - SIP AS (Sh) interfaces (NP-040055)

The Dh interface is referred to be added between AS and SLF (Subscription Locator Function) to resolve the public user identity –> HSS name mapping.

We agreed to introduce a new Experimental Result Code "DIAMETER_MISSING_USER_ID". This change was not seen as essential to be introduced in Rel-5.

Subscriber Certificates

Concerns have been raised within CN4 with regard to the requirements included in the SA3 stage 2 documentation for Generic Authentication Architecture (specifically TS 33.220), which states that the GAA-User-Profile be sent from HSS to BSF and from BSF to NAF. CN4 has asks SA3 group to provide CN4 with the reasoning for the inclusion of GAA-User-Profile in GAA messages and explain the relationship between the content of the GAA-User-Profile and the functions of Bootstrapping, before CN4 concludes the GAA protocol design.

We agreed to limit the description in chapter 1 of 29.109 on diameter based interfaces only.

Wireless LAN interworking (29.234)

We have made some progress on 29.234 with respect to:

- Authentication commands in Wx

- Profile download procedure initiated by the HSS in Wx

- Cancel registration procedure in Wx by HSS

- Registration procedure and Profile download in Wx

We agreed to add a new chapter for numbering, addressing and identification for 3GPP System to WLAN Interworking in 23.003 (NP-040058). The chapter is mainly moved from 24.234. GSMA is informed of the proposed change. At the last plenary GSMA was asked to take over the control of the 3gppnetwork.org domain name (NP-040105).

GPRS (NP-040060)

According to the changes on Stage 2 (CR 23.060-434r8) we agreed to add a parameter APN restriction type to each APN. With the new parameter it is possible to perform calculation/decision of whether certain APN combinations are permissible in the PDP Context Activation and Inter-SGSN Routeing Area Update procedures.

CN4 agreed to enhance the definition of the Recovery IE to allow a GSN that has deleted contexts as a result of Path Failure to notify the GSN at the receiving end of the path that failed that this has occurred.

Mn interface protocol (29.332)

This time we agreed also to a table which show the procedures which are needed to be reused for Mn interface was added. The following procedures are identified to be defined in 29.332.

- ?? Reserve IMS connection point
- ?? Configure IMS Resources
- ?? Reserve IMS Connection Point and configure remote resources

No procedure out of H248 or 29.232 is identified to be reused.

Mp interface protocol

A proposal to use SIP as an option on Mp interface was not accepted. It was mentioned that this is a stage 2 issue. The interested company should bring this proposal to SA2.

Location services (NP-040059)

CN4 agreed to remove R-GMLC Address After the last CN4 meeting it was noticed that SA2 had removed the requirement to send the R-GMLC address during MT-LR procedure for an area event reporting. This change has been approved to the 23.172 specification in SA #22 plenary.

When the UE requests that its own location be sent to an external LCS client, the UE may specify a Service Identity to indicate which MO-LR service of the LCS Client it requests. The LCS servi ce type ID is added to the subscriber location report message.

MBMS (NP-040057)

The GGSN needs to be aware of the SGSN support of MBMS to optimize MBMS support performance. The introduction of the MBMS Support Indication extension header is performed by mandating the SGSN to include such Extension Header in all Create PDP Context Requests and Update PDP Context Requests. We agreed on some corrections on MBMS messages.
This closes the last open issue on MBMS for CN4.

Access restriction (NP-040097)

We agreed on a new feature which performs access restriction of a subscriber at Location and routing area update. The Access_Restriction_Data is permanent subscriber data stored in the HLR, and temporary subscriber data stored in the VLR and SGSN. The value of the parameter could be GERAN not allowed or UTRAN not allowed.

MAP specification (NP-040061)

We agreed some corrections on MAP.

CAMEL4 –SCUDIF (NP-040070)

We agreed to add a flag to notify the gsmSCF on service change. With this change the prepay service can determine the correct tariff for the call.

CAMEL phase 4+

We discussed a proposal to include Location Information in subscriber-initiated USSD on CAMEL interface. It was not clear if the requirement is only a CAMEL issue only. It was our understanding that the related Stage1 specification (22.090) shall describe the requirements. Interested companies were to bring the appropriate CRs to SA1

Automatic Device Detection

CN4 has started the work on the aspects to support ADD function – to provide the Device Management System with the subscribers IMEISV in order to identify if it has a new terminal and thus triggering the DMS to re-configure the terminal. The proposed solution requires that the HLR be updated with the IMEISV at Location Update/IMSI Attach procedure for the first time in the MSC/VLR or SGSN and if the subscriber later changes UE. The proposed CRs are not agreed because of raised concerns on signalling load and if the combined procedure for LA/RA update needs to be taken to into account. Discussion is ongoing on the email exploder.

2.2   Release 5 and earlier

HSS – CSCF (Cx) & SLF - CSCF (Dx) & HSS - SIP AS (Sh) interfaces (NP-040046)

Various corrections for Rel-5 have been approved.

Location services (NP-040050)

We agreed to split positioning Data parameter in UTRAN and GERAN by introducing a parameter for each of them to allow the receiving note to identify the data correctly because UTRAN and GERAN are using different encodings.

Bearer Independent (NP-040052)

We agreed a small corrections on 23.205.

TrFO/codec control (NP-040053)

This time CN4 agrees some correction of Inter-MSC SRSN Relocation procedure. The CR describes the handling of the codec lists for inter-MSC handover in detail. Clarification of the codec list names and codec names in section 6.10 of 23.153. A CR on 23.009 from CN1 is related to this as well (NP-040031). The handling of the codec lists for inter-MSC handover is clarified. Codec modification/ mid-call codec negotiation after inter-MSC SRNS relocation and inter-MSC handover is described.

Handover (NP-040045, NP-040054)

Corrections on cause mapping are agreed.

GPRS (NP-040069)

We agreed on a clarification which fields shall be ignored when RAB context IE is included SGSN context response message.

2.3   GSM (NP-040044)

We agreed a set of CRs on Location services to clarify the handling of SS-data list IE and in the LCS Information IE in the MAP Insert Subscriber Data Arg message.

3   Questions for advice and decision

CN4 agree to reference and extend the work of Liberty alliance. If there is no formal relationship between 3GPP and Liberty Alliance which would allow reproduction and/or extension of Liberty Alliance specifications, the proposal of taking the Liberty Alliance drafts into CN4 specs and/or extending them for 3GPP specific uses would not be permitted under the terms of this statement. Therefore, CN4 asks if any such relationship between 3GPP and Liberty Alliance exists, or if not whether one could be established. CN4 notes that a formal Liaison Statement relationship between 3GPP and Liberty Alliance exists. CN and SA plenary are asked to take the appropriate action (for details see NP-040014).

CN4 asks CN plenary to confirm that CN4 performs the coordination of diameter based reference points. CN4 is aware that CN3 and SA5 are also working on reference points which are based on diameter.

4   Work organisation

4.1   Work Item descriptions

NP-040062; Work Item Description on Trace Management, stage3, network; OAM-Trace.

Specifications within CN1 and CN4 are impacted by this work item. The main objective of this work item is to update the network interface protocols to include the Trace activation and deactivation procedures defined in SA5 TS 32.422 "Trace Control and Configuration Management". The work which needs to be done will be further clarified when the stage 2 is agreed by SA plenary.

4.2   Review of the work plan

The work plan was updated after the meeting. The updates should be covered in the version of the work plan which is published before CN#23. The final dates of the below listed WI are shifted to September:

- ?? IMS phase 2- Enhancements to Cx and Sh interfaces; IMS2-CCR,
- ?? IMS phase 2- Mn interface (IM-MGW to MGCF) enhancements (CN4 part); IMS-CCR-Mn,
- ?? IMS phase 2- Mp interface (MRFC to MRFP) enhancements (CN4 part); IMS-CCR-Mp
- ?? WLAN-UMTS Interworking – Stage 3 – CN4 aspects; WLAN-IW
- ?? Support of subscriber certificates – Stage 3; SEC-SC

5 CN4 meeting calendar

We have agreed to add a place holder for a possible CN4 meeting in April 2004. The complete list of meetings is shown in the table below to end of 2004.

Table 2: CN4 meeting calendar to the end of 2004

Date	Meeting	Place	Host
14 – 20 April 2004	CN4 #22bis, JM CN4 and T2	Edinburgh, GB	EF3
10-14 May 2004	CN4#23	Zagreb, HR	EF3
2 - 4 Jun 2004	CN plenary #24	Seoul; KR	
16 – 20 August	CN4#24	Sophia Antipolis, FRANCE	ETSI
8 - 10 Sep 2004	CN plenary #25	Palm Springs; US	
15 – 19 Nov 2004	CN4#25	TBD	
08 -10 Dec 2004	CN plenary #26	Athens, GREECE	

6 Change Requests

CN4 produced 77 Change Requests which are submitted for ratification. An overview of the CR packages is provided in Table 1. Corrective CRs to Release 5 and earlier were agreed as critical corrections, unless there is an indication to the contrary.

Table 1: CRs submitted by CN4 for approval at CN #23 (sorted by agenda item)

Tdoc	Agenda	Type	Tdoc Title	WI
NP-040069	7.3	CR PACK	CRs to R99 on Work Item GPRS	GPRS
NP-040044	7.4	CR PACK	CRs to Rel-4 on Work Item Location Service Enhancement	LCS1
NP-040045	7.5	CR PACK	CRs to R99 on Work Item Small Technical Enhancements and Improvements	TEI

NP-040046	8.1	CR PACK	CRs to Rel-5 on Work Item IP-based multimedia services Cx-/Dx-interface	IMS-CCR
NP-040047	8.1	CR PACK	CRs to Rel-5 on Work Item IP-based multimedia services Sh-interface	IMS-CCR
NP-040048	8.1	CR PACK	CRs to Rel-5 on Work Item IP-based multimedia services Cx-/Dx-interface	IMS-CCR
NP-040049	8.3	CR PACK	CRs to Rel-5 on Work Camel 4	Camel4
NP-040050	8.4	CR PACK	CRs to Rel-5 on Work Item Location Services	LCS1
NP-040051	8.7	CR PACK	CRs to Rel-5 on Work Item SCUDIF	SCUDIF
NP-040052	8.8	CR PACK	CRs to Rel-5 on Work Item small Technical Enhancements and Improvements on CSSPLIT	TEI5
NP-040053	8.8	CR PACK	CRs to Rel-5 on Work Item small Technical Enhancements and Improvements on TrFO	TEI5
NP-040054	8.8	CR PACK	CRs to Rel-5 on Work Item small Technical Enhancements and Improvements on Handover	TEI5
NP-040055	9.1	CR PACK	CRs to Rel-6 on Work Item IP-based multimedia services	IMS2
NP-040056	9.2	CR PACK	CRs to Rel-6 on Work Item Support of Presence Capability	PRESNC
NP-040057	9.8	CR PACK	CRs to Rel-6 on Work Item Multimedia Broadcast and Multicast Service	MBMS
NP-040058	9.18	CR PACK	CR to Rel-6 on WLAN	WLAN
NP-040059	9.19	CR PACK	CRs to Rel-6 on Work Item Location Service Enhancements	LCS2
NP-040060	9.22	CR PACK	MAP CR to Rel-6 on Work Item small Technical Enhancements and Improvements on GPRS	TEI6
NP-040061	9.22	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements and Improvements on MAP	TEI6
NP-040097	9.22	CR PACK	CRs to Rel-6 on Work Item small Technical Enhancements and Improvements on Access restriction	TEI6
NP-040070	9.23	CR PACK	CRs to Rel-6 on Work Item Camel SCUDIF	SCCamel

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 Location service (NP-040044); Release 98

Currently the mechanism by which the VLR can notify the HLR that the VLR does not support Location Services (LCS) is not clearly standardized. These CRs are introducing to allow the LCS SS codes to be transported both in the SS-data list IE and in the LCS Information IE in the MAP Insert Subscriber Data Arg message.

N4-040329; CR 09.02 A340 98; Correction to Insert Subscriber Data message for LCS SS

N4-040330; CR 29.002 705 99; Correction to Insert Subscriber Data message for LCS SS

N4-040331; CR 29.002 706 4; Correction to Insert Subscriber Data message for LCS SS

N4-040332; CR 29.002 707 5; Correction to Insert Subscriber Data message for LCS SS

N4-040333; CR 29.002 708 6; Correction to Insert Subscriber Data message for LCS SS

N4-040334; CR 03.16 A46 98; Correction to SS data for LCS SS

N4-040335; CR 23.016 031 99; Correction to SS data for LCS SS

N4-040336; CR 23.016 032 4; Correction to SS data for LCS SS

N4-040337; CR 23.016 033 5; Correction to SS data for LCS SS

N4-040338; CR 23.016 034 6; Correction to SS data for LCS SS

6.1.2 TEI99, GPRS (NP-040069); R99

The current specification does not clearly indicate which IE shall be discarded if RAB context in SGSN-Context-Response message is received by the new SGSN.

N4-040312; CR 29.060 482 Rel-6; PDCP and GTP-U sequence numbers received in the PDP Context information element inside SGSN Context Response message.

N4-040313; CR 29.060 489 Rel-5; PDCP and GTP-U sequence numbers received in the PDP Context information element inside SGSN Context Response message.

N4-040314; CR 29.060 490 Rel-4; PDCP and GTP-U sequence numbers received in the PDP Context information element inside SGSN Context Response message.

N4-040315; CR 29.060 491 R99; PDCP and GTP-U sequence numbers received in the PDP Context information element inside SGSN Context Response message.

6.1.2 TEI99, Handover (NP-040045); R99

The mapping to the RANAP cause value "time critical relocation" is corrected

N4-040256; CR 29.010 097 R99; Correction of Inter System Handover cause mapping

N4-040257; CR 29.010 098 Rel-4; Correction of Inter System Handover cause mapping

N4-040258; CR 29.010 099 Rel-5; Correction of Inter System Handover cause mapping

N4-040259; CR 29.010 100 Rel-6; Correction of Inter System Handover cause mapping

6.1.3 IMS-CCR; IP-based multimedia services Cx/Dx-Interface (NP-040046); Rel-5

N4-040270; CR 29.228 076 Rel-5; Clarification on S-CSCF-Name comparism

N4-040271; CR 29.228 077 Rel-6; Clarification on S-CSCF-Name comparism

N4-040272; CR 29.228 090 Rel-5; Default handling of error cases during IMS registration

N4-040273; CR 29.228 091 Rel-6; Default handling of error cases during IMS registration

N4-040281; CR 29.228 084 Rel-5; Conditions for inclusion of Public Identity in SAR

N4-040282; CR 29.228 085 Rel-6; Conditions for inclusion of Public Identity in SAR

N4-040342; CR 29.228 086 Rel-5; Correction to sending the Charging-Information AVP

N4-040343; CR 29.228 087 Rel-6; Correction to sending the Charging-Information AVP

N4-040112; CR 29.228 088 Rel-5; Correction to User-Authorization-Answer

N4-040113; CR 29.228 089 Rel-6; Correction to User-Authorization-Answer

6.1.4   IMS-CCR; IP-based multimedia services Sh-Interface (NP-040047); Rel-5

N4-040358; CR 29.328 044 Rel-5; Clarification of which Public Identities are downloaded

N4-040359; CR 29.328 045 Rel-6; Clarification of which Public Identities are downloaded

N4-040104; CR 29.329 031 Rel-5; Add MSISDN to set of Data that may be downloaded

6.1.5 IMS-CCR; IP-based multimedia services Cx/Dx-Interface (NP-040048); Rel-5
CRs for email approval not agreed postponed to next meeting

6.1.8   Camel 4 (NP-040049); Rel-5

N4-040269; CR 23.018 136 Rel-5; Default Basic Service for gsmSCF-initiated calls

N4-040187; CR 23.018 137 Rel-6; Default Basic Service for gsmSCF-initiated calls

6.1.9   Location service (NP-040050); Rel-5

N4-040326; CR 29.002 710 Rel-5; Inclusion of UTRAN Positioning Data parameter

N4-040327; CR 29.002 711 Rel-6; Inclusion of UTRAN Positioning Data parameter

6.1.9   SCUDIF (NP-040051); Rel-5

N4-040024; CR 23.018 134 Rel-5; Incorrect implementation of CR 133

N4-040025; CR 23.018 135 Rel-6; Incorrect implementation of CR 133

N4-040339; CR 29.002 719 Rel-5; Add new Unavailability cause for SCUDIF

N4-040340; CR 29.002 720 Rel-6; Add new Unavailability cause for SCUDIF

6.1.9   TEI5; CSSPLIT (NP-040052); Rel-5

N4-040185; CR 29.232 061 Rel-5; Addition of Package Id for CTM

N4-040355; CR 23.205 050 Rel-5; Call waiting, use Modify command for change of flow direction to bothway.

6.1.9   TEI5; TrFO (NP-040053); Rel-5

N4-040361; CR 23.153 068 Rel-5; Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation

N4-040309; CR 29.002 667 Rel-5; Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation

N4-040310; CR 29.002 668 Rel-6; Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation

N4-040304; CR 23.153 069 Rel-5; Correction of Inter-MSC SRSN Relocation procedure

N4-040192; CR 29.002 669 Rel-5; Correction of Inter-MSC SRSN Relocation procedure

N4-040193; CR 29.002 670 Rel-6; Correction of Inter-MSC SRSN Relocation procedure

6.1.9 TEI5; Handover (NP-040054); Rel-5

N4-040356; CR 29.010 102 Rel-5; Change to cause code mappings for Service Based/Load based handover

N4-040357; CR 29.010 103 Rel-6; Change to cause code mappings for Service Based/Load based handover

6.2 Release 6 CRs

6.2.1 IMS2; IP based Multimedia services (NP-040055)

Introduces the Dh interface to be use between AS and SLF

N4-040120; CR 29.328 036 Rel-6; Dh interface

Non essential CRs only agreed for Rel-6

N4-040074; CR 29.228 081 Rel-6; Error for missing identification in SAR command

N4-040274; CR 29.229 035 Rel-6; Error for missing identification in SAR command

N4-040364; CR 29.329 032 Rel-6; Introduction of 'Identity-Set' AVP

N4-040344; CR 29.328 043 Rel-6; Clarification of the AS Permissions List and its relevance to table 7.6.1

6.2.2 PRESNC; Support of Presence Capability; (NP-040056)

Introduces the necessary description related to presence in MAP specification and mentions the Subsystem number used for Presence server.

N4-040249; CR 29.002 701 Rel-6; Introduction of Presence Stage 3 (Ph, Pc and Pg) to the MAP interface

N4-040250; CR 23.003 087 Rel 6; Assignment of SSN for Presence Network Agent

6.2.3 MBMS; Multimedia Broadcast and Multicast Service; (NP-040057)

N4-040255; CR 29.060 480 Rel-6; Introduction of the MBMS Support Indication extension header

N4-040155; CR 29.060 484 Rel-6; Change to the definition of GTP Tunnel for MBMS

N4-040156; CR 29.060 485 Rel-6; Removal of the GGSN address for Control Plane in the Delete MBMS Context Request

6.2.3 WLAN; Multimedia Broadcast and Multicast Service; (NP-040058)

N4-040289; CR 23.003 085 Rel-6; Addition of WLAN access identities

6.2.3 LCS2; Location Service Enhancements; (NP-040059)

The first set of CRs corrects a modification of requirements in stage 2 (this was indicated in the last plenary).

N4-040182; CR 29.002 724 Rel-6; Removal of R-GMLC Address

N4-040197; CR 24.030 015 Rel-6; Removal of R-GMLC Address

N4-040198; CR 24.080 034 Rel-6; Removal of R-GMLC Address

The second set of CRs introduces the service identity support indicator.

N4-040320; CR 24.080 033 Rel-6; MO-LR Service Identity support

N4-040321; CR 24.030 016 Rel-6; MO-LR Service Identity support

N4-040322; CR 29.002 725 Rel-6; MO-LR Service Identity support in TS 29.002

6.2.3 TEI6; GPRS; (NP-040060)

N4-040316; CR 29.060 431 Rel-6; Enhancement of Recovery IE to reduce number of dangling PDP Contexts

N4-040317; CR 23.007 008 Rel-6; Change of Restart Counter definition for enhanced GTP recovery procedures

N4-040233; CR 29.060 465 Rel-6; Controlling the creation of multiple, concurrent PDP Contexts

N4-040093; CR 29.060 483 Rel-6; Correction to length field of the Common Flags IE

N4-040319; CR 29.060 481 Rel-6; Clarification in the definition of the QoS Profile IE encoding

6.2.3 TEI6; Access restriction; (NP-040097)

N4-040285; CR 29.010 101 Rel-6; Include administrative restriction subscription parameter

N4-040162; CR 23.008 129 Rel-6; Inclusion of Access_Restriction_Data parameter

N4-040283; CR 23.012 014 Rel-6; Include administrative restriction subscription parameter

N4-040164; CR 23.016 035 Rel-6; Include administrative restriction subscription parameter

N4-040284; CR 29.002 717 Rel-6; Include administrative restriction subscription parameter

6.2.3 TEI6; MAP; (NP-040061)

N4-040328; CR 29.002 709 Rel-6; SCCP segmentation for Inter-PLMN MAP messages

N4-040171; CR 29.002 721 Rel-6; CR implemented by fault

6.2.3 TEI6; CAMEL4-SCUDIF; (NP-040070)

N4-040267; CR 29.002 726 Rel-6; CAMEL4 SCUDIF notification during active call for prepay

7   Draft Technical specifications and reports

None this time.

8   Acknowledgments

I want to thank the delegates for the hard work and for the active and long discussions. I also want to I have (and it's a duty which gives me no problem at all) to thank Kimmo Kymäläinen for providing the excellent support during and between the meetings.

This time the coordination of the time plan between the Working groups works fine. Experts and interested delegates from group on special topics were able to participate in the discussion in an other group.

Finally, I would like to thank the hosts of our meeting the North American friends for excellent hosting.