

3GPP TSG CN WG4#04
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Source: 3GPP CN WG4 Chairman
Yun-Chao.Hu@era.ericsson.se

Title: CN and IP MM Protocols

Agenda item:

Document for: Information and Discussion

1 Introduction

A discussion has been started within the CN Leadership (CN & WG chairs) on a proposal made by the CN chairman (with consultation with the S2 chairman, Teuvo Jarvalla) on the distribution of the IP MM Sub-System standardization activities among the CN WGs and SA2.

This document is proposed to inform the N4 delegates on the CN Leadership discussions and also to receive feedback from N4 perspective.

2 Proposed IP MM Activities within CN

Introducing the IP MM protocol activities introduces some major protocol development differences compared to the traditional protocol design activities within N4:

- IP MM protocols are based on IETF protocols, which means that they are based on end-to-end protocols. This is in contradiction with the segment-based division of protocols as we currently have within the TSG CN organization (i.e. access, intra & inter-network and interworking protocols). From this perspective, the allocation of the IETF protocols needs to have some flexibility according to the strict Terms of Reference of each group.
- Since the IP MM protocols are based on IETF, 3GPP will not have the ownership of these protocols but is rather involved in the protocol validation and usage guidelines. This activity is referred as protocol stewards by the email of the CN chairman, which involved analyzing it, validating it, extending it if necessary, clarifying how it is used, specifying packages and parameter values. This type of activity is already in place regarding the ITU-T protocols, such as BICC and H.248 and IETF protocols, such as Sigtran and SIP-T.

The detailed proposal from the CN chairman is:

- N1: SIP (Call control) including SIP supplementary services
- N2: CAMEL extensions for VoIP and multimedia
- N3: SDP (Session Definition Protocol), QoS protocols (such as RSVP)
- N4: [Name to Address translation functions](#), AAA protocols, security protocols, ~~non-~~ [application layer protocols and protocol stacks \(use of IPv6, SS7 over IP\)](#), subscriber data management in HSS [and the HSS to CSCF protocols to support this](#);
- N5: extension of OSA (or whatever it's new name is) to VoIP and multimedia

3 Further work split between S2 and CN WGs

On the area of the traditional (CS and PS) core network standardization, the following work division has been proposed by the CN Chairman, which I would like to endorse:

- 23.032 GAD: S2->N4
- 23.071 LCS stage 2: S2->N4/N1 (N4 has primary responsibility, N1 has secondary responsibility)

- 23.171 LCS stage 2: S2->N4/N1 (N4 has primary responsibility, N1 has secondary responsibility)
- 23.271 LCS stage 2: S2->N4/N1 (N4 has primary responsibility, N1 has secondary responsibility)
- 43.071 LCS stage 2: S2->N4/N1 (N4 has primary responsibility, N1 has secondary responsibility)

However, the CN chairman made a further proposal related to handover of the GPRS Stage 2 specification. In my understanding N1 has sent out an LS to S2 regarding the N1 candidacy to have the GPRS Stage 2 responsibility if S2 decides that this document shall be moved to the TSG CN responsibility. On this transfer of the GPRS Stage 2 discussion, a further discussion is still required within the CN leadership and I would prefer to wait for this discussion to take place before further N4 statements will be made on this.

- 23.060 GPRS stage 2: S2->N4/N1 (N4 has primary responsibility, N1 has secondary responsibility)

4 Proposal

It is proposed to agree to the proposed extenuation of the N4 standardization activities, except for the proposal on the transfer of the GPRS Stage 2.

It is proposed to modify the agreed N4 Terms of Reference according to the agreed transfer of S2 specifications and extenuated specification work for the IP MM protocols