

Source: LM Ericsson AB
To: 3GPP S1, S2
CC: 3GPP CN OSA Adhoc
Title: Proposed LS on Realization of VHE/OSA for Release 1999
Agenda item:
Document for: Approval

LIAISON STATEMENT

3GPP TSG CN has reviewed the attached document submitted by a number of companies to request for endorsement of the relevant workplans, advance the open issues and secure the VHE/OSA feature as part of Release 99. This document has been noted by the TSG CN Plenary, however TSG CN has agreed to initiate an OSA Adhoc group to produce the required stage 3 OSA API protocol specifications.

The documented scope of the OSA Service Capability Features within TS 23.127 is:

- Framework SCF
- Call Control SCF
- Charging SCF
- User Interaction SCF (currently included into message transfer SCF)
- Terminal Capability SCF
- User Location SCF
- User Status SCF
- Message Transfer SCF
- Data Download SCF
- User Profile Management SCF

Currently the OSA API is targeting on the limited scope for Release 1999 since some SCF requires resolution from the WGs S1 & S2 and the limited time available to produce this stage 3 API protocol specification. The current proposed scope for R'99 OSA is:

- "*Framework SCS*" (including authentication, registration, discovery)
- CAMEL SCS (including charging, user interaction, call control, user location and user status SCFs)
- WAP GW SCS (including terminal capabilities SCFs)
- SAT SCS (including Data Download SCF)

This scope of the OSA API will be reassessed for completion at the next TSG CN #07 Plenary (March 2000).

This workplan requires that the open issues within TS 22.121 and 23.127 need urgent resolution. Therefore, TSG CN would urge the responsible WGs to resolve them as soon as possible.

Attachment: **Tdoc NP-99551**

Source: Vodafone, Telia, Telenor, Ericsson
Title: Measures for Finalising VHE/OSA in Release 99
Agenda item: 5.5
Document for: Decision

1 Introduction

Traditionally, IN and "supplementary service" approaches were used to develop standardized and customized services. In UMTS, service capabilities are to be specified instead. These service capabilities are accessible by applications via a standardized interface. This will accelerate service development and empower operators to choose the degree of service differentiation. The VHE/OSA concept encapsulates the UMTS service vision.

Currently, TSG SA WG1 & WG2 are engaged in finalizing stage1 and stage2 of the VHE/OSA specifications. A detailed workplan is available in TSG-N for stage3.

A brief assessment of the open and contentious issues is made and measures are proposed for advancing those issues.

2 Open Issue Analysis

Stage1 - TS 22.121 v3.2.0

- I. OSA support for MExE and SAT.
MExE and SAT have predefined meaning in the "terminal" context. The use of the terms "MExE server" and "SAT server" in the network context are considered confusing by some delegates. Improved definitions were proposed at the last TSG-SA WG1 meeting. It was decided that the interested parties (Ericsson, Siemens and Motorola) are to come up with a common CR. There is a continuing dialogue.
- II. Needed support for messaging (related to MMS).
The issue here is whether there is a need to have open interfaces specified for MMS within VHE. Since such interface would provide applications with a consistent access to services, it should be specified within VHE. However, it should be noted that the User Interaction service capability feature (as supported by CAMEL ph2 and ph3) are included within the 'Messaging Transfer' service capability features. So, the proposal is to address the CAMEL Ph2/3 related requirements in R99 and move the rest to Release 2000.

Stage2 - TS 23.127 v1.0.0

1. Support for on-line charging for GPRS and SMS.
A solution was brought forward by Ericsson at the last S2 meeting in Abiko (29/11 – 03/12). Unfortunately, due to LAN access problems, it was not presented. However, this contribution is being circulated by email and will be presented at the next S2 meeting.

2. Support for User Interaction via USSD and SMS
A solution was brought forward by Ericsson at the last S2 meeting in Abiko (29/11 – 03/12). Unfortunately, due to LAN access problems, it was not presented. However, this contribution is being circulated by email and will be presented at the next S2 meeting.
3. Support for registration of Service Capability Features to Framework.
A solution is being prepared for the next S2 meeting.
4. Support for load control between Applications and Service Capability Servers (load balancing).
A solution is being prepared for the next S2 meeting.

Stage3

For R99, stage3 work would be a collaborative effort between 3GPP and ETSI SPAN3. A detailed work plan (N-OSA-99076) has been produced by the CN OSA adhoc.

3 Contentious Issue Analysis

1. Support for User Profile handling (including secure access to user data).
This issue can be further divided into several sub-issues:
 - a. Secure access to user data.
This issue would restrict an application to access user data in the core network (e.g. location information) from subscribed users only.
 - b. Secure access to user data in application.
This issue involves the transfer of a secure user identity to the application and the possibility for the application to verify that the user has the right to access the application (via secure access to the user profile).

Security is an important element of VHE/OSA. TSG-SA WG2 has already forwarded an LS to TSG-SA WG3 seeking advice, and discussions are ongoing in TSG SA WG2 to secure a solution for R'99.
2. Description of 'Data Download' Service Capability Features.
This issue is related to open issue I (TS 22.121) and needs to be resolved in TSG SA WG1 before any further work can continue in TSG SA WG2. Expected to be resolved at the next SA WG1 meeting.
3. Description of 'Message Transfer' Service Capability Features
This issue is related to the open issue II (TS 22.121) and needs to be resolved in TSG SA WG1 before any further work can continue in TSG SA WG2. Expected to be resolved at the next SA WG1 meeting.
4. How to support CAMEL ph3 within VHE/OSA.
TSG SA WG2 have discussed whether all the currently defined service capability features for 'Call Control' can be implemented with CAMEL ph3. The result of this discussion will be that either:
 - c. Everything remains as it is defined now, or
 - d. Those service capability features that cannot be implemented with CAMEL ph3 will be removed from VHE/OSA for R'99

4 Conclusion

VHE/OSA is essential for realizing the UMTS service vision. The VHE/OSA scope in R'99 is the first step, in a stepwise approach being taken to realize the full service vision.

The analysis of the open issues shows that solutions are already known or can be secured within a reasonable (2-3 month) time frame. To expedite the resolution of some of the contentious issues, consideration should be given to a separate VHE/OSA drafting session.

Given the importance of the VHE/OSA feature for 3rd generation systems, the affected working groups and the TSGs are urged to endorse the relevant workplans, advance the open issues and secure the VHE/OSA feature as part of Release 99.