

3GPP TSG SA WG3 Security — S3#29
15 - 18 July 2003
San Francisco, USA**S3-030338**

Title: Extract of OMA Discussion Part of TSG SA #20 Draft Report (v.0.0.4)
Source: SA WG3 Secretary (M. Pope, MCC)
Document for: Background Information for S3-030339 discussion
Attachments: SP-030198, SP-030346 and SP-030350

The following is an extract from the draft report of TSG SA meeting #20, where the results of the "OMA Overlap Report" was discussed. This is provided for information as part of discussions in SA WG3 of S3-030339.

OMA Interaction Contributions:

The contributions in [TD SP-030198](#), [TD SP-030350](#) and [TD SP-030346](#) were presented in series and discussed together:

[TD SP-030198](#) 3GPP-OMA Overlap Report. This was provided by the TSG T Vice Chairman (Kevin Holley) and provided the results of the request to 3GPP WGs for information of commonality of work in OMS and 3GPP. The report was presented to TSG RAN, TSG CN, and TSG T for discussion. It was intended to produce a conclusion on a way forward during the TSG SA meeting. It proposes that:

3GPP and OMA need to come to a mutual agreement on division of work to help eliminate the above problems. Based on an analysis of the raison d'être for the two fora, the following principle for a work split could be agreed:

- *OMA develops application and service enabler requirements for mobile services, and develops the high level architecture and implementation where the service enabler does not require tight coupling to the 3GPP System Architecture.*
- *3GPP develops 3GPP-specific capabilities to support OMA applications.*
- *3GPP and OMA establish a set of stable technical interfaces between specifications developed by the two organisations to allow each to fully complete its work without the need for too many liaison statements going back and forth.*
- *The existing independent release cycles of the two organisations will need to be factored into the relationship.*

[TD SP-030350](#) Management of OMA Overlaps and Dependencies. This was introduced by Nortel Networks and discussed the contribution in [TD SP-030198](#). It concludes that:

- *3GPP and OMA need to jointly manage areas of overlap and dependencies much more closely than at the moment.*
- *Ideally requirements should be collected in one place which both groups can contribute to if necessary.*
- *Where there 3GPP and OMA deliverables are technically linked or have technical dependencies then these interfaces need to be managed to make sure the two sides align.*
- *The timing of deliverables between 3GPP and OMA needs to be managed.*
- *The compatibility between subsystems developed by the two organisations needs to be managed as each organisation evolves the subsystems under its control.*

[TD SP-030346](#) Managing work items which spread between 3GPP and OMA. This was introduced by Vodafone and discussed the contribution in [TD SP-030198](#). It concludes that:

Vodafone believe that clear and transparent management of WIs is essential. Although the exact arrangements for each work item may well differ, we need to address:

- *The overall management responsibility of the WI*
- *The breakdown of work, considering the responsibility for services requirements (stage 1), stage 2 and stage 3 specifications.*

Before the discussion, the TSG SA Chairman reminded delegates that they should keep in mind that this is a 3GPP meeting and industrial issues should not be considered above the technical goals of 3GPP. Technical work in 3GPP follows the rules of 3GPP and approval of work in 3GPP following consensus of its Members could not take into account the direct wishes of colleagues in OMA even if they were contrary to the OMA wishes.

The following issues were identified by the TSG SA Chairman:

- Lack of visibility
- Understanding the Organisations' Working Methods
- Sharing of the Work Plan
- Identification of dependencies.

There was a suggestion that OMA are asked to provide a list of their Work which has a dependency on 3GPP work. This was considered useful in order that 3GPP could provide expected timescales for the work.

It was suggested that the 3GPP work Items should be marked and identified where they are common with OMA Work. The TSG SA Chairman commented that this was the responsibility of Member Companies belonging to both Groups, not 3GPP as a body. If, e.g. 3GPP wish to create a Stage 3 of a feature and it is suggested that OMA are working on a Stage 1 and 2, then 3GPP would investigate this to ensure the scope and timescales are adequate for our needs.

It was also suggested that 3GPP should not consider changing their processes unless a clear advantage can be identified, this would take time to understand other Bodies processes and evaluate how they would work for 3GPP.

It was also commented that there could be differences in the actual content of similar-looking Work Items between OMA and 3GPP and care should be taken to ensure that both bodies produce the necessary specifications for each other.

With respect to joint working with OMA, it was not considered necessary as a principle, but was recognised that certain experts may need to meet together, this would be determined on a case-by-case basis.

It was suggested that the TSG SA Chairman is mandated to arrange a Workshop with OMA to exchange information on the working of the Organisations and the Work being done. It was also suggested that a volunteer provides a draft dependency list (similar to the IETF dependency list). This was **agreed and the TSG SA Chairman **agreed** to try to slot this around a TSG meeting in order to minimise travel costs for delegates. It was **agreed** that OMA should be asked to inform 3GPP what their expectation are of 3GPP. Iain Sharpe **agreed** to draft the dependency list.**

It was agreed that a Liaison should be set up with OMA and for any new WI where an interaction is suspected, then the expectations of OMA and 3GPP should be determined in order to co-ordinate any common work in an efficient way.

It was recognised that the interaction with OMA will need further discussion and adjustment during the early stages of the liaison.

Source: Vodafone Limited

Title: Managing work items which spread between 3GPP and OMA

Document for: Discussion

Agenda Item: 8.6

At their last meeting, SA2 discussed a Work Item Description on "**Impacts of Speech Enabled Services on IMS, PS and CS domains**". This WID was submitted for email approval by SA2, but it was not possible to reach agreement on the details of the WID, so it was not submitted for approval at SA #20.

Vodafone believe that this WID uncovers an important issue of principle. The requirements for Speech Enabled Services are being developed in both OMA and 3GPP SA1, and there is a risk that the two sets of requirement may put conflicting demands on the later stages of the work. SA2 have the responsibility to define the architecture of the 3GPP system, which in turn drives the protocols designed in the CN, GERAN and RAN groups. If SA2 are to be able to fulfil their responsibility, we need to ensure that OMA and 3GPP are pulling in the same direction.

Vodafone believe that clear and transparent management of WIs is essential. Although the exact arrangements for each work item may well differ, we need to address:

- The overall management responsibility of the WI
- The breakdown of work, considering the responsibility for services requirements (stage 1), stage 2 and stage 3 specifications.

SA are asked to discuss this problem so that we can move towards a set of principles for managing work which spreads across the boundary between 3GPP and OMA.

**TSG-SA Meeting #20
HÄMEENLINNA , Filand 9-12th June 2003**

TSG SA #20

**TSG-SA WG 2 Meeting #32
San Diego, USA, 12-16th May 2003**

**S2-032166r2
Agenda Item:**

Presentation of SES WID for Approval

Presentation to: TSG SA Meeting #<20>

Document for presentation: Impacts of Speech Enabled Services on IMS, PS and CS domains

Source: Vodafone Limited

Summary

At the SA2#32 meeting, S2-032166 (Revised Version of S-031020) on "draft WID on the Impacts of Speech Enabled Services on IMS, PS and CS domains" was discussed and there were a number of companies to support this WID.

The background of the relationship between SA1, SA2, SA4 and OMA work on the Speech Enabled Services WID is given here.

- 1) SA 1 TR 22.977 and TS 22.243 have been approved by TSG SA.
- 2) DSR (distributed speech recognition) WID & AMR were proposed to support speech enabled services in SA4 this year.
- 3) A SA2 work proposal was presented by Oracle in SA2#27 (S2-022751 and S2-022752) in October 2002. There was just one supporting company at that time. Therefore, the work item proposal was noted. Also, the work distribution between WGs had to be investigated.
- 4) Seemingly because of the lack of activity within 3GPP, SES requirements similar to those in 3GPP TS 22.243 have been presented to OMA. The specification of requirements is now progressing.
- 5) The OMA and/or SA 1 requirements may require changes to the IMS system and/or CS and PS domains. Any such changes appear to be out of OMA's scope.
- 6) Within the SA 2 work area, topics that may need to be considered include:
 - a) in the CS domain, use of TFO at the voice recognition platform;
 - b) in the PS domain, provision of the MSISDN to the voice recognition platform;
 - c) in the IMS domain, change of speech coders during call.

The objective of this Work Item is to determine the 3GPP architectural impacts and implement any necessary changes. The completion of the work item will help OMA to provide speech enabled service specifications.

Hence the WID is attached here for SA#20 plenary meeting approval.

Title: Draft WID on the Impacts of Speech Enabled Services on IMS, PS and CS Domains
Source: Vodafone Limited
Work Item: 12.1 New Work Item
Document for: Discussion and Approval

New Work Item Description

Title: Impacts of Speech Enabled Services on IMS, PS and CS domains

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked study items

3GPP SA1 Speech Enabled Services (SES): TS 22.243 “Speech recognition framework for automated voice services” and TR 22.977 “Feasibility study for speech enabled services”.

3GPP SA4 Codec work on DSR/SES is linked to this WID.

3 Justification

Speech enabled services have been studied by SA1 and TR 22.977 and TS 22.243 have been approved by SA.

The service requirements defined in TS 22.243 place requirements on the CS and PS domains and the IMS. The 3GPP system needs to provide capabilities to support Speech Enabled Services.

4 Objective

The objective of the WID is to drive the technical collaborations with:

- (a) W3C voice related specification for supporting handset speech enabled services over CS/PS/IMS domain, such as VoiceXML, etc.
- (b) IETF related specifications, such as HTTP, SIP, RTP, etc.
- (c) OMA application related specifications, such as WAP, WML, etc.
- (d) ITU related specifications, such as H.323, etc.

The work will be expected to result in the development of SA2 technical architecture specification that enables speech services and interoperable with related external standard and 3GPP existing CS/PS/IMS specifications.

The completion of the work item will help related OMA work on speech enabled services.

5 Service Aspects

No

6 MMI-Aspects

No

7 Charging Aspects

Administration of services (billing, charging, activation, etc) related to charging should be considered.

A number of charging mechanisms, such as transaction/command event charging, time duration of voice charging (e.g. ARS), data volume charging (e.g. TTS), should be considered.

8 Security Aspects

Access to Voice Recognition platforms in authenticated and authorised manner.

Privacy rules may need to be defined for the access to Voice Recognition platforms.

9 Impacts

Affects:	UICC Apps SIM	ME	AN	CN	Others
Yes				X	
No			X		
Don't know	X	X			X Codec in SA4

10 Expected Output and Time scale (to be updated at each plenary)

New specifications							
Spec No.	Title	Prime resp. WG	2 nd ary resp. WG(s)	Presented information at plenary#	for at plenary#	Approved at plenary#	Comments
TR 23.xxx	Architectural aspects of Speech Enabled Services	SA 2		SA #22		SA #23	
Affected existing specifications							
Spec No.	CR ¹	Subject		Approved at plenary#		Comments	
23.228		IMS stage 2		SA #23			

11 Work item rapporteurs

Qing Xuan (Vodafone Ltd)

12 Work item leadership

SA WG2

13 Supporting Companies

Vodafone Group, 3, Motorola, Alcatel, France Telecom, Fujitsu, Telenor,

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

14b The WI is a Building Block: parent Feature

Yes Speech recognition framework for automated voice services (31006 in workplan)

¹ Depicts the name of the company that volunteers to produce such a CR.

Source: Nortel Networks
Subject: Management of OMA Overlaps and Dependencies
Agenda: 6.3

Introduction

TDoc SP-030198 presents an overview of the overlaps and dependencies between 3GPP and OMA. Even with the very incomplete view of OMA's tasks and status available this clearly shows a large number of areas where 3GPP and OMA are already de-facto in a close relationship.

The document SP-030198 draws a number of conclusions which we agree with. This document highlights one additional issue: the lack of management of dependencies for areas where 3GPP and OMA do overlap.

Discussion

The data collected in 3GPP shows a number of areas where 3GPP has dependencies on OMA and vice-versa. Discussing these areas with working group participants and observing the work flow in each group shows that these dependencies are not being managed.

Examination of the "DRM" topic can illustrate the problems in this area:

- SA1 has a DRM requirements document¹ but it is not clear that OMA are actually using this as a basis for their work.
- Meanwhile OMA has their own requirements document for DRM. It is not clear the relationship of this to the 3GPP requirements document
- Several 3GPP groups note dependencies on the OMA DRM output for their future work, but work with OMA has barely started to make sure 3GPP's technical requirements fit with OMA's model. There work needs to be advanced to make sure OMA's technical deliverables fit with 3GPP's specifications
- The timing of 3GPP deliverables based on DRM and the OMA output of DRM do not appear to be being managed.

Similar comments apply for other 3GPP/OMA overlap areas.

Conclusions

- 3GPP and OMA need to jointly manage areas of overlap and dependencies much more closely than at the moment

¹ Oddly DRM does not appear on SA1's own list of overlaps with OMA (though this is referred to elsewhere)

- Ideally requirements should be collected in one place which both groups can contribute to if necessary
- Where there 3GPP and OMA deliverables are technically linked or have technical dependencies then these interfaces need to be managed to make sure the two sides align
- The timing of deliverables between 3GPP and OMA needs to be managed
- The compatibility between subsystems developed by the two organisations needs to be managed as each organisation evolves the subsystems under its control.