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 WG 2 Meeting #32   **S2-032166r2**

San Diego, USA, 12-16th May 2003   **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~~U 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 rsp. WG	2ndary rsp. WG(s)	Presented for information 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 raporteurs

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)

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

14c   The WI is a Work Task: Parent Building Block