

Source: TSG SA WG2 (S2-032719)

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

Agenda Item: 7.2.3

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 work items

- “Speech Recognition and Speech Enabled Services” (31006)
- “Codec Work to Support Speech Recognition Framework for Automated Voice Services” (34700)

3 Justification

The service requirements on Speech Enabled Services defined in TS 22.243 may place architectural requirements on the CS and PS domains and the IMS. A study is needed to determine if there are any impacts and then specify the possible architectural impacts on the 3GPP architecture which the possible solutions may have.

4 Objective

The objective of this work item is to study the architectural impacts which the service requirements on Speech enabled services and applicable service scenarios may have on the 3GPP architecture, including CS and PS domains and IMS.

It is expected that the outcome of this study will lead to the development and/or enhancements of existing 3GPP CS/PS/IMS specifications. The aim is to base any changes on appropriate protocols and capabilities/enablers defined in 3GPP as well as external standardization bodies such as IETF and OMA.

5 Service Aspects

None

6 MMI-Aspects

None

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. ASR), 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	ME	AN	CN	Others
Yes				X	
No					
Don't know	X	X	X		

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

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. 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	Subject		Approved at plenary#	Comments	

11 Work item rapporteurs

Qing Xuan (Vodafone Ltd)

12 Work item leadership

SA WG2

13 Supporting Companies

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

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

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

Speech Enabled Services (31006)

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

(one Work Item identified as a building block)