3GPP TSG-SA Meeting #13 ***Tdoc SP-010572***
Beijing, China, 24-27 September 2001 **Agenda 7.1.3**

Work Item Description

Title

Speech Recognition and Speech Enabled Services

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

Packet-switched Conversational multimedia Applications (SA4)
IMS (SA1)
Distributed Speech Recognition (DSR) (SA1)

3 Justification

Forecasts show that speech-driven services may play an important role on the 3G market. People want the ability to access information while on the move and the small portable mobile devices that will be used to access this information need improved user interfaces using speech input.

The types of services include those that are voice only, for example, automatic speech access to information. In the future, a new range of multi-modal applications is also envisaged incorporating different modes of input (e.g. speech, keyboard, pen) and speech and visual output.

4 Objective

To enable all these benefits in a wide market, such as 3G, containing a variety of players including terminal manufacturers, operators, 3rd Party Service Providers and speech recognition vendors, an analysis is needed to understand how different architectures work and co-exist, and to weigh if there is a preferred solution(s), allowing 3GPP to limit the number of options.

A study (a Technical Report) on various speech recognition services and technologies and the services that are accessed using them is needed. Some use cases, e.g. related to multimodal browsing, need to be defined. Study on different technologies shall include different architectural aspects including location of recognition (terminal, network and distributed) and also suitability of existing codecs and codecs under development.

5 Service Aspects

Shall be covered via services examples.

6 MMI-Aspects

Man Machine Interface aspects have to be considered but not standardised.

7 Charging Aspects

Shall be covered via services examples.

8 Security Aspects

Security aspects have to be considered.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes					
No					
Don't know	X	X	X	X	X

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 22.XXX	Study on Speech Recognition and Speech Enabled Services	SA1	SA2, SA3, SA4	SA#14	SA#15	

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11 Work item raporteurs

TBD

12 Work item leadership

TSG SA WG 1

13 Supporting Companies

Ericsson, IBM, Nokia, Siemens, T-Mobil

14 Classification of the WI (if known)

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

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

Distributed Speech Recognition (DSR) (SA1)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

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

(one Work Item identified as a building block)