Technical Specification Group Services and System Aspects *TSGS#14(01)0681*
Meeting #14, Kyoto, Japan, 17-20 December 2001

Presentation to:	**TSG SA Meeting # 13**
Document for presentation:	**Support of Multi-modal and Multi-device browsers application by 3GPP**
Presented for:	**Approval**

This document contains a Work Item sheet for Support of Multi-modal and Multi-device browsers application by 3GPP. This was agreed to be forwarded to SA #14 as part of the SA1 email approval mechanism.

TSG-SA WG 1 (Services) meeting #14
5th-9th November, 2001
Kobe, Japan.

TSG S1 (01) 1015
Agenda Item: 8

Work Item Description

Title: Support of Multi-modal and Multi-device browsers application by 3GPP

Source: IBM, SONY

Document for: Discussion and Approval

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 Linked work items

- UE Functionality Split
- Terminal Local Model 23.227 *(T2)*

3 Justification

Multi-modal browsers and **Multi-device application** enable the access and interaction to information anytime, anywhere, anyhow, independently of the activity or environment particularly when using small portable mobile devices .

The ability to access information while on the move and the pain incurred to enter data using small portable mobile devices needs some immediate relief.

This application provides a compelling user interface which exploit the limitations experienced by users to support convenience user interactions, for example, talking is easier than typing, but reading is faster in some conditions are more appropriate than listening, etc....

In order to enable appropriate environments in a secure fashion , it is necessary to define and develop use cases for further understanding

If we do not undertake this work, the user 's freedom and interaction to wireless services will tend to be limited and will lack the value propositions for mobile e-business

4 Objective

In the first instance, the objective of this work is to produce a report in SA1 with comments from other groups. The work may result in the development of additional documents, reports or specifications necessary for

- Architecture,
- Interfaces and
- Protocols.

5 Service Aspects

Service Aspects need to be included in this work for the following capabilities:

- Multi-modal solutions to exploit the different interaction modes, or devices, suitable in different circumstances and provide better user experience or productivity
- Multi-modal interfaces to combine the use of multiple interaction modes, such as voice, keypad and display to improve the user interface of the 3GPP service capabilities. This value proposition can be also easily extended to interacting over/through different devices.
- Multi-modal interfaces to facilitate the user selection at any time and in any situation the optimal modality or device to carry a particular interaction with the application. **A combination of voice and GUI** is already in strong demand. In addition the resulting infrastructure will support the capability to also combine different devices to select the optimise device to perform a particular interaction.

6 MMI-Aspects

MMI Aspects need to be included in this work

7 Charging Aspects

No change with respect to current billing model for Application and Services. In addition, usage of resources, usage of external infrastructure, and value added services etc are for further study

8 Security Aspects

Security Aspects are relatively vital . Synchronization, dialog management and session persistence performed by the multi-modal need security issues on the infrastructure pertaining to:

- trust,

- privacy,
- integrity,
- encryption

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No			X	X	X
Don't know	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
22.xxx	Mmodal Stage 1	S1	T2, S2, S3	TSG-SA#xx		

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

11 Work item raporteurs

Stephane Maes, IBM and Ferial Chummun, SONY

12 Work item leadership

SA1

13 Supporting Companies

IBM, SONY

14 Classification of the WI (if known)

	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

(list of Work Items identified as building blocks)

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)