Technical Specification Group Services and System Aspects
Meeting #20, Hämeenlinna, Finland, 09-12 June 2003

TSGS#20(03)0260

Source:	**SA1**
Title:	**CR to 22.243 on Speech recognition framework for automated voice services (Rel-6)**
Document for:	**Approval**
Agenda Item:	**7.1.3**

TSG-SA1 SWG #20 **S1-030431**
Seoul, South Korea, April 2003 **Agenda Item: 8**

CR-Form-v7

CHANGE REQUEST

⌘ **22.243** **CR** **004** ⌘**rev** **-** ⌘ Current version: **6.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [X] Core Network [X]

Title:	⌘	UE and network capabilities
Source:	⌘	Ericsson
Work item code:	⌘	SRSES
Date:	⌘	31/3/2003
Category:	⌘	**F**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	LS from SA4, S1-030356, informing that the required source datarate can vary depending on the channel and can be more or less than the 9.6 kbit/s which is stated in the current document 22.243 ver. 6.2.0.
Summary of change:	⌘	Remove reference to uplink bandwidth of 9.6 kbit/s from sentence in chapter 5.
Consequences if not approved:	⌘	Inconsistency with WI which is stating that the SES recommended codec supports conversational class with packet switched transmission in both UTRAN and GERAN.

Clauses affected:	⌘	Chapter 5.

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

5 UE and network capabilities

In addition to the capabilities required for IMS Basic Voice session (such as the default voice codec that will be used for the downlink audio prompt stream), the following SRF-based automated voice service-specific capabilities shall be required in the UE and network:

- A default uplink codec (conventional codec or DSR optimized codec).
- A downlink conventional codec and downlink streaming capabilities (simultaneous with uplink)
- The capability to transmit keypad information from the client to the server (e.g., either DTMF or the keypad string)

It shall be possible to enable application specific information exchanges between the client and the server (e.g. client events (e.g. barge-in events), display information, etc…), in the form of speech meta-information. It shall be possible to enable these exchanges with conversational QoS.

SRF shall be supported by an uplink channel available in GERAN and UTRAN networks for the transport of~~bandwidth of 9.6 kbits/s for~~ the codec payload and with QoS (Quality of Service) for conversational class services as specified in TS 22.105 [4]

It shall be possible for the network to distinguish a SRF session from a basic voice session (e.g. for charging purposes).

TSG-SA1 SWG #20 **S1-030432**
Seoul, South Korea, April 2003 **Agenda Item: 8**

CR-Form-v7

CHANGE REQUEST

⌘ **22.243** **CR** **005** ⌘**rev** **-** ⌘ Current version: **6.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☒ Core Network ☒

Title:	⌘	Addition of Streaming and interactive QoS
Source:	⌘	Ericsson
Work item code:	⌘	SRSES
Date:	⌘	31/3/2003
Category:	⌘	**C**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
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Use one of the following releases:
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R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	LS from SA4, S1-030356, informing that even though SA1 has asked SA4 to recommend a speech codec for conversational class of service SA4 sees that is would be valuable to extend the service to also include straming and interactive class of service. This point was also noted by TSG GERAN in their LS to SA4.
Summary of change:	⌘	Inclusion of streaming and interactive QoS for Speech Recognition Framework for Automated Voice Services in addition to the conversational class already mentioned.
Consequences if not approved:	⌘	-

Clauses affected:	⌘	Chapter 5.			
		Y	**N**		
Other specs affected:	⌘		**X**	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

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It shall be possible to enable application specific information exchanges between the client and the server (e.g. client events (e.g. barge-in events), display information, etc…), in the form of speech meta-information. It shall be possible to enable these exchanges with conversational QoS.

SRF shall be supported by an uplink bandwidth of 9.6 kbits/s for the payload and QoS (Quality of Service) for conversational class, streaming and interactive QoS services as specified in TS 22.105 [4]

It shall be possible for the network to distinguish a SRF session from a basic voice session (e.g. for charging purposes).