

Source: TSG-SA WG4
Title: Work Item Description: Packet Switched Streaming Services
Document for: Approval
Agenda Item: 7.4.3

TSG-SA4#24 meeting
November 11-15, 2002, Redmond, WA, USA

Tdoc S4 (02)0732

Work Item Description PSS Rel-6

Title:

PSS Rel-6

1 3GPP Work Area

	Radio Access
	Core Network
✓	Services

2 Linked work items
IMS Phase2 (Internet Protocol Multimedia Sub-system)
MMS (Multimedia Messaging Service)
End to End QoS (Concept and Architecture) for PS Domain
Charging Management
MBMS
GUP

3 Justification

Following on from the PSS-E specifications developed under Rel-5, there is now a need to address more advanced aspects under Rel-6.

4 Objective

Standardization of the components of a mobile multimedia content delivery service, including streaming protocols, media transport protocols and multimedia codecs.

Harmonization with existing and emerging 3GPP multimedia applications will be considered whenever possible.

PSS Rel-6 solution will be based on and therefore should provide full backwards compatibility with the Rel5 Extended Streaming solution.

This work item will cover:

- Support for service adaptation
 - Enabling adaptation based on capability exchange, including user preferences.
 - Support adaptation to varying network conditions.
 - Adaptation to network capabilities and characteristics (GERAN, UTRAN and WLAN).
- Consideration of introduction of new codecs and formats.
- Harmonized streaming support for MMS.
- Consideration of introduction of a server file format and a file format for progressive download.
- Real time monitoring of application level QoS.

The following bullets are related to the linked work items (under the responsibility of other working groups or other standardisation bodies):

- DRM specific impacts on PSS, if any.
- IMS specific impacts on PSS, if any.
- MBMS specific impacts on PSS, if any.
- Charging specific impacts on PSS, if any.

5 Service Aspects

The WI will define the necessary components for a mobile streaming service.

6 MMI-Aspects

None

7 Charging Aspects

The mobile streaming application will allow various charging models, e.g. time based, volume based, service usage based.

8 Security Aspects

Transport and content security aspects will be covered. Possibility for harmonization of security mechanisms between different multimedia applications will be considered.

9 Impacts

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

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
Affected existing specifications						
Spec No.	CR	Subject	Approved at plenary#		Comments	
26.233		Transparent end-to-end packet switched streaming service; General description (PSS)	SA#20		Rel-6	
26.234		Transparent end-to-end packet switched streaming service; Protocol and codecs (PSS)	SA#20		Rel-6	
22.233		Stage 1, streaming			SA1 is responsible for this document	
		Stage2, streaming (non-transparent aspects)			SA2 is responsible for this potential document	

11 Work item rapporteur

Olle Franceschi (Ericsson)

12 Work item leadership

TSG SA WG4

13 Supporting Companies

AT&T Wireless, Ericsson, Nokia, NTT DoCoMo, Philips, Emblaze Systems, Orange, Serome Technology, Packet Video, Vimatix, Hutchison 3G, Siemens, Microsoft, Coding Technologies, Fraunhofer

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

(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)