

Technical Specification Group Services and System Aspects
Meeting #12, Stockholm, Sweden, 18-21 June 2001

TSGS#12(01)0375

Source: SA1
Title: WIs for approval from SA1
Document for: Approval
Agenda Item: 7.1.3

Work Item Description

Pre-paid / on-line charging for IMS

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

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3 Justification

As IP Multimedia services are expected to generate considerable revenue streams for operators it is necessary to provide efficient mechanisms for charging (especially for pre-paid / on-line charging) encompassing session level information from the IM subsystem.

4 Objective

As pre-paid / on-line charging is already available in both CS and PS domain the objective of this WI is to define the charging requirements for IM subsystem to support pre-paid / on-line charging

5 Service Aspects

Pre-paid / on-line charging shall allow a subscriber to pay in advance for the use of IP Multimedia services. The pre-paid account shall be checked prior to the use of those services and decreased accordingly.

6 MMI-Aspects

The user shall be able to know the amount of credit available before and during the use of the services.

7 Charging Aspects

Yes

8 Security Aspects

Pre-paid / on-line charging shall be executed in a secure manner.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes				X	
No			X		X
Don't know	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
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
22.115				SA#13		IP multimedia subsystem requirements

11 Work item rapporteurs

Ericsson

12 Work item leadership

TSG-SA1

13 Supporting Companies

Ericsson, Telia, Telenor, Vodafone, TIM, Siemens, Nokia

14 Classification of the WI (for TSG-SA1)

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

Requirements for prepaid charging in IMS

14b The WI is a Building Block: parent Feature

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

Title: Proposed Work Item description sheet on “Enhancement of Broadcast and Introduction of Multicast”
Document for: Approval
Source: Broadcast MM adhoc

Work Item Description

Title

Enhancement of Broadcast and Introduction of Multicast

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 Linked work items

RAN Workitem (agreed conditional on stage 1 and stage 2 availability): Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN

Work is also needed in other SA, T, CN and GERAN working groups.

3 Justification

In Rel-99, service continuity regarding Cell Broadcast Service was implemented, but other point-to-multipoint services or applications are not covered. The intention of this WI is to provide SA1 requirements for Broadcast and Multicast services.

With increasing use of high bandwidth applications in third generation mobile systems, especially with a large number of users receiving the same high data rate services, efficient information distribution is essential. Thus, broadcast and multicast are promising techniques to decrease the amount of data within the whole network and use the resources more efficiently.

During the SA plenary #11, TSG RAN asked for guidance from SA regarding a proposed WI on the Enhancement of Broadcast and Introduction of Multicast Capabilities in UTRAN. It was noted that TSG SA had no Work Item on this subject, and it was agreed that the issue would be postponed until a related WI was produced in TSG SA (SA WG1).

4 Objective

The objective of this WI is to analyse the service requirements and provide the necessary changes and additions required in the current SA1 specifications.

- General description of Broadcast and Multicast
- Definition of broadcast and multicast service capabilities
- Service areas
- QoS on broadcast and multicast services
- Multimedia support, Codecs

- Charging aspects
- Security aspects
- Roaming, Service availability and continuity
- Connectivity to external networks
- Optimized routing

5 Service Aspects

Broadcast and Multicast shall enable operators to distribute the same services to several users in an efficient way within their network.

6 MMI-Aspects

FFS.

7 Charging Aspects

Charging aspects have to be considered.

8 Security Aspects

Transport and content security aspects have to be covered.

9 Impacts

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

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

New specifications						
Spec No.	Title	Prime resp. WG	2 nd ary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TR	Enhancement of Broadcast and Introduction of Multicast Capabilities	SA1		12	13	New Technical Report
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	

11 Work item rapporteurs

Hutchinson 3G UK

12 Work item leadership

TSG-SA WG1

13 Supporting Companies

Hutchinson 3G/Omnitel/Siemens/Bamboo MediaCast/NTT DoCoMo/France
Telecom/Mannesmann Mobilfunk/Nokia

14 Classification of the WI (if known)

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