
Source: SA5 (Telecom Management)
Title: Rel-6 BB (BB2) WID : Charging Management for the IM Subsystem
Document for: Approval
Agenda Item: 7.5.3

3GPP TSG-SA5 (Telecom Management) S5-024602
Meeting #32, Vienna, AUSTRIA, 18-22 November 2002

Source: SWG-B
Title: Work Item Description: [IMS Charging]
WI type: [Building Block]
Document for: Decision
Agenda Item: 5.2

Work Item Description

Title: Charging management for the IM Subsystem

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services
	Terminals

2 Linked work items

As described in the parent Feature “Charging Management”

3 Justification

The IP Multimedia Subsystem (IMS) has been standardised in 3GPP Release 5. Further enhancements are going to be introduced within Rel-6. Therefore, the existing TS for IMS charging, TS 32.225, needs to be upgraded and aligned with the service enhancement that are going to be specified for the IMS in Rel-6. In addition, it is necessary to analyse the impact of new services on the IMS and to enhance the IMS charging specifications as required. Work is also envisaged within this BB in order to stabilise the existing Rel-5 IMS charging specifications.

Also required by these new IMS charging features are considerations of architectural implications, the method of defining the information model, and the resulting impacts on the existing stage 2 charging specification, i.e. TS 32.200. Note that potential impact on the existing stage 3 bearer charging specifications, i.e. TS 32.205 and 32.215, is covered in the BB “Bearer Charging”.

4 Objective

The objective of this work item is to specify enhancements for offline and online IMS charging, as mandated by the additions to the IMS core specifications and by the specification of new IMS based services, for both the stage 2 and stage 3 IMS charging specifications.

5 Service Aspects

Appropriate network nodes will need to collect and forward service related charging data.

6 MMI-Aspects

None

7 Charging Aspects

The main principles and structure of the charging TSs are described in the parent Feature “Charging Management”. It is expected that this BB will result in changes to the existing TSs 32.200 and 32.225. In addition, it is planned to split the current single TS for online and offline charging (TS 32.225) into two Implementers’ Guides (stage3 descriptions), one each for offline and online charging, so that a common document structure across all domains and subsystems is achieved.

8 Security Aspects

None

9 Impacts

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

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

Note that the exact structure for the TSs described below is still under discussion.

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
32.xxx	Diameter Accounting and Credit Control application	SA5		TSG#20 (06/03)	TSG#21 (09/03)	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
32.200				TSG#21 (09/03)		
32.225				TSG#21 (09/03)		

11 Work item rapporteurs

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12 Work item leadership

SA5

13 Supporting Companies

Ericsson, Lucent, Nokia, Nortel Networks, Siemens, T-Mobile, Orange, Telecom Italia, Cingular Wireless.

14 Classification of the WI (if known)

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

14b The WI is a **Building Block**: parent **Feature**

Charging Management

SP-020729	S5-024462	Rel-6 Feature WID: Charging Management
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15 Work Tasks under this Building Block/Feature

Note that the exact structure for the TSs described below is still under discussion.

Building Block	Work Task	Description	Release
IMS Charging	WT1: Evolution of IMS charging to generic applications	This effort comprises all activities needed to evolve the existing functionality of the Rf and Ro interfaces (TS 32.225) such that they can be used for all charging domains and subsystems (except CS). No functional enhancements to IMS charging are included in this WT.	REL-6
IMS Charging	WT2: Enhancements to IMS charging	This WT comprises all necessary enhancements to IMS online and offline charging, as mandated by the additions to the core IMS standard. In addition, it comprises all work to be done in order to further stabilise Rel-5 IMS charging	REL-5/ REL-6
IMS Charging	WT 3: Analysis of implications on IMS charging from service charging	This WT comprises the analysis of potential impacts on IMS charging due to the introduction of new services, and alignments to IMS charging TSs as required	REL-6
IMS Charging	WT4: Alignment of existing stage 2 charging specification	This WT comprises all necessary alignments and upgrades of TS 32.200 due to features in IMS charging.	REL-6