
Source: SA5 (Telecom Management)
Title: Rel-6 BB (BB3) WID : Charging Management for the Service domain
Document for: Approval
Agenda Item: 7.5.3

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

S5-024597

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

Work Item Description

Title: Charging management for the service domain

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

Currently (i.e. in 3GPP release 5), only the charging functionality for MMS is defined. As more services, such as the ESS and Presence Service, are standardised in 3GPP, and existing services are being enhanced, it is necessary to provide a mechanism for operators to charge for these advanced services based on information gathered in the service nodes that are involved in the delivery of the service. Also required by these new service 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 charging specifications is covered in the BB “Bearer Level Charging” for TS 32.205 and 32.215, and in the BB “IMS Charging” for TS 32.225.

4 Objective

The objectives of this work item are:

- to specify service charging functionality for all new release 6 services for both offline and online charging;
- to specify LCS charging based on the LCS nodes (not the CN nodes);
- to specify online charging functionality for MMS ;
- to upgrade and/or align the existing stage 2 charging specification, i.e. TS 32.200, as appropriate.

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 is described in the parent Feature “Charging Management”. It is expected that this BB will result in changes to the existing TS 32.200. In addition, several new Implementers’ Guides (stage3 descriptions) will be provided for offline and online charging for the new Rel-6 services, as well as online charging for services where currently only offline charging is standardised. Refer to the table below for more details about the expected output under this BB.

8 Security Aspects

None

9 Impacts

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

“Others” in this BB refers to the service nodes that need to be involved in charging of the services they provide.

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
32.236	MMS online charging	SA5		TSG#20 (06/03)	TSG#21 (09/03)	
32.237	LCS offline charging	SA5		TSG#20 (06/03)	TSG#21 (09/03)	
32.238	LCS online charging	SA5		TSG#20 (06/03)	TSG#21 (09/03)	
32.xxx	xxx service charging	SA5		TSG#20 (06/03)	TSG#21 (09/03)	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
32.200		Charging Principles		TSG#21 (09/03)		
32.235		MMS Charging		TSG#21 (09/03)		

11 Work item rapporteurs

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12 Work item leadership

SA5

13 Supporting Companies

Alcatel, Ericsson, Lucent, Nokia, Nortel, Siemens, T-Mobile.

14 Classification of the WI (if known)

	Feature (go to 14a)
	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

Building Block	Work Task	Description	Release
Service Charging	WT1: MMS Enhancements	Generation of new TS 32.236 for MMS online charging, expected to be based on the Ro interface that was specified for IMS in Rel-5. This TS will contain mainly the online charging data description and the charging protocol specification.	REL-6
Service Charging	WT2: LCS Enhancements	Generation of new TS 32.237 for LCS offline charging in the LCS nodes, expected to be based on the Rf interface that was specified for IMS in Rel-5. This TS will contain mainly the CDR descriptions, charging protocol, and file based interface to the billing domain.	REL-6
Service Charging	WT3: Alignment of existing charging specifications	This WT comprises all necessary alignments and upgrades of existing charging specifications TS 32.200, 32.205, 32.215 and 32.225, due to the emergence of new or modified services.	REL-6
Service Charging	WT4(+x): xxx service offline charging	Generation of new TS 32.xxx for xxx serviceofflinecharging, expected to be based on the Rf interface that was specified for IMS in Rel-5. This TS will contain mainly the CDR descriptions, charging protocol, and file based interface to the billing domain.	REL-6
Service Charging	WT5(+x): xxx service online charging	Generation of new TS 32.yyy for yyy service online charging, expected to be based on the Ro interface that was specified for IMS in Rel-5. This TS will contain mainly the online charging data description and the charging protocol specification.	REL-6