
Source: SA5 (Telecom Management)
Document for: Information, Discussion
Agenda Item: 7.5.2

3GPP TSG-SA5 (Telecom Management)
Meeting #37bis, Sophia Antipolis, FRANCE, 29 Mar - 2 Apr 2004

S5-044244

Title: LS on Push to Talk over Cellular (PoC) Charging Architecture
Response to: LS (S5-044207 / OMA-POC-2004-0050R03) on Push to Talk over Cellular (PoC) Charging Architecture from OMA PoC WG
Release: Rel-6
Work Item: CH

Source: 3GPP SA5 SWGB
To: OMA PoC WG, OMA MCC, GSMA BARG CPWP, GSMA SerG, 3GPP2 TSG-S
Cc: CDMA Development Group (CDG), 3GPP SA, SA1, SA2,
Cc: 3GPP/OMA Co-ordinator, SHARP Iain (iain.sharp@nortelnetworks.com)

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Attachments: None.

1. Overall Description:

SA5 thanks OMA PoC WG for the LS in S5-044207 / OMA-POC-2004-0050R03. After reviewing the charging relevant content of the LS, SA5 would like to return the following point-by-point comments and suggestions.

From OMA-POC-2004-0050R03

In a PoC session there can be number of PoC participants, being PoC subscribers of several different PoC operators. Each of the PoC operators shall be able to charge PoC participants independently of other PoC operators' policy based on their charging policies.

SA5 comment

Each PoC participant has a contractual relationship with his PoC operator only, and thus should be charged only by him according to his contract. SA5 feel that the above requirement could be misinterpreted as introducing a dependency between each operator's end-user billing policy and inter-operator settlement between the involved operators. It should therefore be clarified that the requirement is not related to, or dependent on, the settlement between the involved PoC operators.

From OMA-POC-2004-0050R03

The charging of the PoC participant can be based on the following:

.....

.....

SA5 comment

SA5 assume that the intention of the above statement, and the items listed subsequently in OMA-POC-2004-0050R03, is to apply them to both offline and online charging (e.g. to support both postpaid and prepaid business models). In online charging some of the proposed charging models (parameters) seem to be very challenging, namely "session time" and even more "participants as function of time". Hence a simplification of the online charging model, compared to offline charging, should be considered.

From OMA-POC-2004-0050R03

The charging of the PoC participant can be based on the following:

- *PoC session time: Time spent by the PoC participant in a PoC session*
- *Sent talk-bursts: Amount of talk-bursts sent by the PoC participant. Amount of talk-bursts shall be measured as a number of talk-bursts and/or as a length of talk-bursts.*
- *Received talk-bursts: Amount of talk-bursts received by the PoC participant. Amount of talk-bursts shall be measured as a number of talk-bursts and/or as a length of talk-bursts.*
- *Actions initiated by the PoC participant in a PoC session. Following actions shall be able to charge*
 - *Adding a new PoC participant into the session*
 - *Subscription to the participant information in a PoC session*
 - *Amount of Participant information sent to the PoC participant*

SA5 comment

- 1) In bullet items 2 and 3 above, "time length" and "volume" of talk bursts should be allowed as measures for the amount of talk bursts, rather than just "length".
- 2) Flat fee per PoC session or per time period should be added as an additional item that charging of the PoC participant can be based on.

From OMA-POC-2004-0050R03

- *Total PoC session time: Total time PoC session is up, i.e. the time that there is at least one PoC participant in a PoC session.*
- *Amount of PoC participants as function of time: In order to do this the times when PoC participants join and leave the PoC session need to be determined.*
- *Talk-bursts distributed to the PoC participants: When one of the PoC participants sends talk-burst in a session, then this talk-burst needs to be distributed to all PoC participants in a PoC session. The amount of distributed talk-bursts shall be measured as a number of talk-bursts and/or as a length of talk-bursts.*
- *Number of participant information subscriptions.*
- *Number of participant information sent to the PoC participants.*

SA5 comment

- 1) It is proposed to prepend the following text to the above bullet item list:

The charging of the PoC session owner can be based on the following:

- **Flat fee per PoC session or per time period.**
- 2) In bullet item 3 above, "time length" and "volume" of talk bursts should be allowed as measures for the amount of distributed talk bursts, rather than just "length".

SA5 is willing to produce a Rel-6 specification for PoC charging, and delegates of the SA5 SWGB (Charging) are in discussion with OMA MCC to jointly progress this work.

An initial draft of the TS, demonstrating how SA5's process of adding a service charging TS in 3GPP can be applied in order to easily and seamlessly integrate PoC charging into the existing 3GPP series of online and offline service charging specifications, is available at

ftp://ftp.3gpp.org/tsg_sa/WG5_TM/TSGS5_37bis/Docs/S5-044245_TS32.272_PoC_v0.0.2.zip

SA5 plans to add the above charging requirements into the next version of this TS, pending continued co-ordination with OMA MCC.

SA5 and OMA MCC are currently also investigating the possibility of a joint session during OMA TP#12, where the PoC charging work should be one of the topics.

2. Actions:

To OMA PoC WG, OMA MCC WG, GSMA BARG CPWP, GSMA SerG

ACTION: SA5 kindly asks the above groups to take into account in their future work the contents of this LS and provide feedback for additions or modifications where applicable.

To OMA MCC WG, 3GPP2 TSG-S

ACTION: SA5 kindly invites the above groups to further work with SA5 in order to achieve a PoC charging specification that meets each group's requirements.

3. Date of Next SA5 Meetings:

3GPPSA5#38	10 - 14 May 2004	Beijing	CN
3GPPSA5#38-bis	28 Jun - 2 Jul 2004	Sophia Antipolis	FR