

Title: [DRAFT] LS on SS barring for SMS transfer over GPRS
Response to: LS (S1-022247) on Call Barring for SMS in PS domain from SA WG1

Source: TSG CN
To: SA WG1; SA WG2
Cc: CN WG1; CN WG4

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Attachment: LS (S1-022247) on Call Barring for SMS in PS domain from SA WG1

1. Overall Description:

TSG CN have discussed the request from SA WG1 to CN WG1 and CN WG4 to consider specifying the support of SS barring of SMS transfer in the PS domain (i.e. through an SGSN). CN1 and CN4 discussed the request from SA1 at their recent meetings; CN4 asked TSG CN for guidance on the extent to which SS barring of SMS transfer through an SGSN should be specified, and the first release in which it should be specified.

TSG CN reached the following conclusions:

1. The specification of **invocation** of SS barring of MO SMS and MT SMS through an SGSN will be done in CN4. This will require changes to the definitions of the behaviour of the HLR and the SGSN, and the MAP protocol for the transfer of SS subscription information from the HLR to the SGSN. TSG CN believe that minor changes would also be required to TS 23.060, which is in the remit of SA WG2. The impact on implementations would be acceptable as an enhancement for Release 6, but several companies were not prepared to accept that it is a necessary correction for Release 5 or earlier. It was noted that although SMS transfer through an SGSN has been part of the GSM/UMTS specification set since GSM Release 97, it was only in the middle of 2002 that a concern was raised over the lack of SS barring for SMS transfer through an SGSN, which does not indicate that this is a major problem.
2. The specification of **control** of SS using the SGSN as a relay between the UE and the HLR would require major specification work in both CN1 and CN4: in CN1 to define the behaviour of the UE and the protocol for transport of the SS control signalling between UE and SGSN, and in CN4 to extend the supplementary services specifications to show the possibility of relaying the SS control signalling through the SGSN. The impact on implementations, both UEs and core network entities, would be major, and the additional capability would offer a benefit only to those subscribers who have a GPRS-only subscription. Those subscribers who have a GPRS-only subscription and wish to set up SS barring of SMS transfer can use the subscription option for control of the barring service by the service provider. TSG CN therefore recommend strongly to SA1 that the possibility of **control** of SS using the SGSN as a relay between the UE and the HLR should not be pursued.

2. Actions:

To SA WG1:

ACTION 1: TSG CN ask SA WG1 to confirm to CN WG1 and CN WG4 that it is acceptable to specify the **invocation** of SS barring of SMS transfer (both MO and MT) in the PS domain as part of UMTS Release 6.

ACTION 2: TSG CN ask SA WG1 to confirm to CN WG1 and CN WG4 that it is acceptable not to pursue the specification of **control** of SS using the SGSN as a relay between the UE and the HLR.

A response in time for the CN WG meetings in February 2003 will enable CN4 to consider the necessary changes to their specifications at that meeting.

To SA WG2:

ACTION 3: TSG CN ask SA WG2 to take note of TSG CN's recommendations to SA WG1, and to draft the necessary changes to TS 23.060 for Release 6.

3. Date of Next TSG CN WG/TSG CN Meetings:

TSG CN WG1 Meeting #28)		
)	10 th – 14 th February 2003,	Dublin, Ireland.
TSG CN WG4 Meeting #18)		
TSG CN Meeting #19	12 th – 14 th March 2003	Birmingham, UK

Title: Reply to LS on Call Barring for SMS in PS domain

Response to: LS S1-021980 (N1-022153, N4-021311)

Source: SA1

To: CN1, CN4

Cc:

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Attachments: None

1. Overall Description:

SA1 thanks both CN1 and CN4 for the Liaison Statement on Call Barring for SMS in PS domain.

SA1 understand that Call Barring for SMS is required regardless of the domain over which it is provided (i.e. is it required for both CS AND PS domains). From the user perspective, there is no awareness of the domain used for SMS transportation. In case of the Call Barring function being active, the SMS transportation should be restricted not only within CS domain but also within the PS domain. SA1 also understand that the SS procedures are required for SMS in PS domain to maintain consistency for Call Barring for SMS.

As regards the target release, SA1 is not in a position to judge the impact to the technical specifications and therefore is unable to offer any guidance to CN4 and CN1 on this issue. However, SA1 notes that the barring of SMS over GPRS has been a requirement within SA1 specifications since Rel99 and believes that consistency of the features of SMS is fundamental to the provision of this service. Hence, SA1 urges CN1 and CN4 to specify this functionality in as early a release as possible.

With regard to the clarification of the description within annex A of TS22.004, SA1 does not feel any change is required to this specification as this functionality is already sufficiently specified within SA1 specifications.

2. Actions:

SA1 respectfully request that CN1 and CN4 carry out and complete the appropriate specification work for Call barring for SMS over PS as quickly and within as early a 3GPP release as possible.

3. Date of Next TSG-SA1 Meetings:

SA1#18	11 – 15 November 2002,	Bussan, Korea, hosted by Samsung
SA1 SWGs	20 -24 January 2003,	San Francisco, USA, hosted by AWS with SA2/T2
SA1#19	24-28 February 2003,	Sophia Antipolis. hosted by ETSI