3GPP TSG-SA WG2 meeting #25   **Tdoc S2-021919**
Naantali, Finland 24ᵗʰ –28ᵗʰ June 2002   (Revised S2-021916)

Title:	**Reply to Liaison Statement on use of IP as transport for the Inter-GMLC Interface**
Source:	**3GPP TSG SA2**
To:	**GSMA SerG LBS sub-group, TSG CN4**
Cc:	**GSMA IREG, TSG SA3**
Response to:	LS SERG Document 107/02 (S2-021996) on use of IP as transport for the Inter-GMLC Interface

Contact Person:
    Name: John Watson
    Tel. Number: +44 1635 254685
    E-mail Address: John.Watson@vf.vodafone.co.uk

TSG SA2 would like to thank GSMA SERG for their analysis and recommendations regarding the use of IP as the transport layer for the interGMLC (Lr roaming) interface. Whilst it is SA2's preference for an IP interface similar to that specified by LIF for the optional Le (LCS Client to requesting GMLC) interface, it is our intention to discuss this and other stage-3 specification requirements with our colleagues in TSG CN4. TSG CN4 may wish to delegate the development of this interface to the Location Interoperability Forum (LIF) in liaison with TSG CN4 and TSG SA2.

During our SA2#25 meeting many of the essential Lr interface requirements were identified based upon the most common roaming scenarios:

1. The privacy check shall be performed by the Home PLMN of the target mobile in Rel-6.

2. HPLMN shall authorize and control the location request and the delivery of location information to the LCS client /requestor.

3. The Rel-6 solution shall be backwards compatible.

4. Lr is mandatory in Rel-6 specifications, but the usage of Lr (or Le or Lg for that matter) is optional for the operators involved.

5. The "Requesting GMLC" was agreed to be the role of the GMLC, which receives the request from LCS client

6. The "Visited GMLC" was agreed to be the GMLC, which is associated with the serving node of the target mobile.

7. The "Home GMLC" was agreed to be the one GMLC, which is responsible to control the privacy checking of the target mobile.

8. The Requesting GMLC can be the Visited GMLC, which can be the Home GMLC in the same time.

9. HPLMN shall decide how the time dependent privacy rules shall be applied, taking in account also possible deferred LR.

10. Further requirements may be identified

These requirements are primarily to ensure that in Release-6 networks the user's privacy settings are checked in the H-PLMN prior to the authorised delivery of location information to any LCS Client. In some roaming scenarios this cannot be achieved without the use of an Lr interface and so it is essential that this inter-GMLC link is secure. To this end TSG SA3 should therefore also be consulted on the level of data security required for the Lr interface.

2. Actions:

TSG SA WG2 kindly requests TSG CN WG4 to investigate what would be the preferred approach to standardize stage 3 of the Lr interface.

3. Attachments:

S2-021996 LS SERG Document 107/02 "Liaison Statement on the GMLC-GMLC interface utilising IP as transport"

4. Next SA2 meeting.

SA2#26, Canada, 19th– 23rd Aug, 2002

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Meeting Number	SERG#47	**SERG Doc 107/02**
Meeting Date	23-25 April 2002	
Meeting Location	Helsinki	

Title   Liaison Statement on the GMLC-GMLC interface utilising IP as transport

Source	SerG
Date	25 April 2002

Security Classification Category*:		**Please mark with "X" where applicable**
Unrestricted - Industry		**X**

Status
Please mark with "X" one of the following actions relating to this document:
For Approval ☐ **For Information** ☒

Associated Knowledge Basis	Enter if applicable

Document History		
Revision	**Date**	**Brief Description**

Summary

To: 3GPP CN WG 4, 3GPP SA WG 2 and GSMA IREG
Cc: 3GPP SA WG 1
From: GSMA SerG

The requirements of the GMLC-GMLC interface.

3GPP SA WG 2 have produced a Work Item Description for the GMLC-GMLC interface to be included in Release 6. SerG has identified a number of operational requirements for this interface including performance and transport capabilities. These are as follows.

1.   Operational requirements of the GMLC-GMLC interface

1.1.   Secure

The information transferred over the interface can be accessible only to the two parties involved (i.e. sending operator and receiving operator). As secure as any inter-operator traffic.

1.2.   Fast response

The message flow between the GMLC:s. The response time should not significantly affect the response time of the overall service.

1.3.   Capacity & scalability

Small, medium and large operators need to be able to deploy and flexibly scale the different GMLC interfaces to other operators.

1.4.   Easy implementation & low cost to the operator

- Should use existing infrastructure as much as possible.
- Require low Operational and Maintenance costs.

1.5.   Flexible and future proof

Future proof to allow the information passed between the operators to be changed. In addition to the basic purpose of supporting positioning requests, future requirements could be support of enhancing basic location information or combination of location with other services.

1.6.   Network independent

Capable of interfacing between different networks using different mobile technologies and generations.

1.7.   Speed of deployment

Time to market is critical, i.e. any specific development should be avoided (use existing standard specifications where possible).

2.   Transport requirement

An analysis of the above requirements has concluded that the inter-GMLC interface is best implemented using IP transport. We therefore ask 3GPP to ensure that the inter-GMLC interface is optimised to meet the above requirements using IP as the transport.

We request GSMA IREG to note the conclusion by SerG that we propose the use of IP to support the inter-GMLC interface. SerG welcomes any feedback on the proposal.