

Bristol, UK
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Source: TSG SA WG3

To: TSG SA WG1, TSG SA WG2

Title: Reply LS on “Enhanced user privacy for location services ”

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Overall Description:

This LS is a reply to WG2's LS S2-013063 (S3-010575). S3 thanks SA2 for being asked and is pleased to provide the following feedback. Updated document versions [1] and [2] were taken into account.

Feedback:

SA3 welcomes the suggested enhancements to user privacy for LCS regarding an *authorization* based on

- LCS Client
- Service Identity
- Requestor Identity

LCS is a delicate issue both in user's and national regulators' view, so there is a strict need to also *authenticate* all parties involved. SA3 feels that this need is not adequately addressed in the current proposal [1], [2]:

- LCS client, service, and requestor are identified by "MSISDN or logical name", which both can be spoofed.
- Requestor shall authenticate with a "codeword". Besides providing only weak authentication in terms of security, password schemes have proven to be both vulnerable and user-unfriendly.

Proposed actions for SA1 and SA2:

SA3 proposes the following actions for SA1 and SA2. SA3 is willing give support regarding all security related issues.

1. Trust and Security Model

Before SA3 defines a security model, SA1/2 should define a trust model for LCS. The trust model usually follows the business model (who bills the user's bank account?). For example, it may be more straightforward for the user to trust one GMLC operator than a multitude of VASPs.

A trust model is a prerequisite for identifying threats and security requirements.

2. Le Interface Security (LCS Client – LCS Server)

LCS client and server have a trust relationship which is reflected in a contract. To protect users' location data, the channel must provide:

- mutual authentication

