GSMA position on Periodic Technical Inspection

12th November 2014

Content

- **Background**

- **Summary of the concerns to the proposals from PTI report**

- **GSMA position for the Period Technical Inspection**

- **Q&A**

Background

- For the EeIP meeting held in May 2014, GSMA sent a Liaison Statement about PTI (CLMA 003 LS). The LS provided some concerns on the provided options in the PTI report.

- During 2014 GSMA continued the discussion about eCall within a dedicated task force that involves Mobile Operators and also Automakers.

- As result of discussion with operator members GSMA has revisited and strengthened the concerns raised in LS and collected an harmonised proposal from MNOs members.

Periodic Technical Inspection
Proposals from the official report

- Options provided in the PTI report:

  A. Use of TS12 emergency call set-up message to identify and route test eCalls.
  B. Use of TS12 emergency call set-up message to identify and route test eCalls and additionally using the test indicator in the MSD
  C. Reservation of fixed numbers for test calls
  D. Capturing all calls coming from the vehicle and routing to a dedicated device for testing (e.g. by a Femtocell)
  E. Use of normal emergency call 112 to PSAP

- Recommended options in the report are C and D.

Periodic Technical Inspection –
General concerns for proposed options

- None of the options are optimal, they all arise the following problems:
  - a clear statement of the purpose and scope of the PTI, what is the critical part
  - Missing commercial and operational impact analysis of the proposed options
  - The impact on the network load can be very high and compromise the normal traffic, such analysis is not present in the report
  - Most of the options involved a high implementation and operational cost, not clear who will take the cost
  - The proposed options are not testing the actual eCall service, but they are all testing the test eCall

Periodic Technical Inspection –
issues for proposed options

- Issues for each proposed options:

  A. **Use of the flag.** This option would require a change in 3GPP standards in order to be interoperable, and the new use of the flags would need to be included in 'suppliers' roadmaps. As suppliers have implemented/are implementing the eCall flag, and operators are starting to deploy it, changes at this stage would cause delay. Additionally, the cost of carrying the test calls, and the interconnect/terminating costs to the PSAPs will be unreasonable for operators to bear given the expected volume of test calls.

  B. **MSD extension.** For this option the MNO cannot read the MSD but it would be the responsibility of the TSP & PSAP to understand if this is a test call. For the MNO a test call would look like a normal eCall since it would carry the eCall flag. Also for this option the cost of carrying the test calls, and the interconnect/terminating costs to the PSAPs will be unreasonable for operators to bear given the expected volume of test calls.

C. Fix number. MNOs would not bear the costs of these calls. The solution would be appropriate if a single number would be used across the whole EU, right now it is already possible to store a number on the SIM Card, so the technology could be used to perform the test calls. However it is still unclear how to distinguish test eCalls from normal eCalls. All calls needs to be paid and the cost of interconnect could be quite high.

D. Dedicated device testing. This has a very high implementation and operational cost. Operators are unlikely to be willing to bear these costs. Additionally, this option may impose additional requirements on operators in order to integrate the micro/Femtocells in the network. It is better to test with macro level coverage, as it is hard to guarantee an eCall device will connect to a specific femto and each garage would need to have a Femtocell from every operator. Plus a specific routing needs to be established for each garage, and, the calls may incur interconnect/termination charges.

E. Use 112. There is no support for testing calls, so changes are required in the network

Periodic Technical Inspection – Proposal

- **PROPOSAL:** reduce the scope of PTI, by excluding eCall test call setup, and testing the communication between SIM and Modem locally in the car.

  - Such tests can be performed either periodically or on-demand
  - The MNO can prove that the service is activated by just performing some simulated calls
  - The emergency calls (112) do not mandate periodic test and the service is guaranteed by MNOs.

- **NOTE:** Input from OEMs to support the proposal
  - OEMs are building a local self-testing into their eCall system, with a visual indicator. (There is no standard specification available on how to trigger eCall test calls in vehicles targeted for 2015 for OEMs).

http://www.gsma.com/connectedliving/