

Technical Specification Group Services and System Aspects  
Meeting #10, Bangkok, Thailand, 11-14 December 2000

**TSGS#10(00)677**

**Source:** Armin Toepfer, Mannesmann, Randy Wohler, Pacific  
Bell Wireless

**Title:** Proposed Work Shop on Location Services

**Document for:** Information

**Agenda Item:** 12

### **LCS Work Shop Description – Introduction**

Several important changes have occurred to the LCS specifications, as defined in GSM Release 1998 and Release 1999, as the specifications migrated to 3GPP Releases 1999 and Release 4 (and Release 5). In particular some functionality, network elements and open interfaces that comprise the LCS functionality in GSM R'98/R'99 are missing from the current 3GPP standards.

Provision of the missing functionality, network elements, and open interfaces is viewed as being important to carriers in providing an open, flexible architecture, and ensuring smooth network evolution (architectural compatibility).

As a result, supported by a large number of carriers, Work Item descriptions to address the provision of open interfaces that would provide comparable functionality to that which exists in GSM were provided and accepted at SA1#10 and SA2#15. As a consequence it was felt that a Location Services Work Shop should be conducted.

Objectives of the Location Services Work Shop include the following:

- To provide background information on the existing service requirements, and architectures in GSM, GERAN, and UMTS, and
- To identify areas of divergence, and
- To reach agreement regarding the provision of functionally similar open interfaces and protocols within the 3GPP Specifications (UTRAN, GERAN, CN, SA), and
- To identify impacted specifications, and
- To reach agreement on the way forward with this initiative, and
- To make recommendations regarding work plan impacts.

Accordingly outputs may include recommendations including an updated work item description.

## Venue and Agenda

### Details

Time and Place – January 11<sup>th</sup> –January 12<sup>th</sup>, London, England

Host – Vodafone

Chair – Armin Toepfer – Mannesmann

Registration and submission of documents: Emmanuelle.Wurffel@ETSI.FR

Hotel reservation: ....

### Agenda

1. Opening
2. GSM LCS Overview
  - a. Service Level Requirements
  - b. Architecture
  - c. Positioning Technologies
    - i. Cell Sector + TA
    - ii. TOA
    - iii. EOTD
    - iv. GPS
3. 3GPP LCS Overview
  - a. Service Level Requirements
  - b. Architecture
    - i. LCS System Aspects
    - ii. GERAN
    - iii. UTRAN
  - c. Positioning Technologies
    - i. Cell Sector + RTT
    - ii. OTDA
    - iii. GPS
4. Comparison of LCS Architectures and Options between GSM LCS and 3GPP
  - a. White Papers (S1-LCS000015, S2-001440)
  - b. Liaison Statements (GSM NA, GSMA, SA1, and SA2)
  - c. Work Items (SA1 and SA2)
5. Work Areas: Identify comparable open interfaces and protocols in UMTS and GERAN which correspondent to GSM LCS interfaces and protocols
6. Path Forward
  - a. Overall LCS Work Item Management
  - b. Individual LCS Work Items
  - c. Refinement of LCS Open Interface Work Item
7. Closing