**3GPP TSG-SA3LI, SA3#43LI SA3LI11\_123**

**15-17 November 2011, San Francisco, California**

**Source: Alcatel Lucent, Rogers Wireless**

**Title: Discussion paper for the living document on LI solutions for IMS Media Plane Security based on MIKEY-IBAKE**

**Document for: Discussion**

**Agenda Item:**

**Work Item / Release: LI Rel-11**

## 1. Background

LI solutions for MIKEY-IBAKE have been extensively studied in the SA3-LI group. In particular, SA3-LI group discussed LI solutions for MIKEY-IBAKE in LI meetings #36, #38, #40, #41 and #42. Some of the findings of these discussions are captured in liaison statements exchanged with the SA3 group. However, the contributions discussed in the last meeting are noted and further correspondence with the SA3 group was not pursued. The concern is that the findings resulting from the discussions that took place during meetings #41 and #42 will be lost.

## 2. Discussion

## 2. 1 Lawful Interception Rel-11 WID

Current Lawful Interception Rel-11 WID in clause 3 (Justification) lists IMS media security as one of the topics that necessitates LI considerations for Rel-11. Therefore, all work related to studying LI solutions for MIKEY-IBAKE based IMS media plane security is within the scope of the Lawful Interception Rel-11 WID.

## 2. 2 3GPP TR 33.829 Extended IMS Media Plane Security Features

3GPP TR 33.892 in Section 8 (Services for user groups with high security requirements) includes MIKEY-IBAKE as a possible solution. However, current version of TR 33.829 includes following Editor’s Note regarding MIKEY-IBAKE solution:

Editor’s note: LI solutions for MIKEY-IBAKE are currently being discussed by SA3-LI.

For this Editor’s note to be removed from TR 33.892, SA3-LI group needs to evaluate MIKEY-IBAKE and confirm to the SA3 group that LI solution for MIKEY-IBAKE indeed satisfies LI requirements for media plane security as specified in TS 33.106.

## 2. 3 Current Situation in SA3-LI and SA3 Groups Regarding MIKEY-IBAKE

As mentioned in the background, MIKEY-IBAKE is being studied in the SA3-LI group. In SA3-LI #42, 4 possible LI solutions were presented. The contributions addressing LI solutions for MIKEY-IBAKE were noted in the SA3-LI #42 meeting and the group asked for more details about some aspects of the solutions.

In addition, TR 33.829 currently includes MIKEY-IBAKE as a possible solution for Services for user groups with high security requirements. However, further progress of MIKEY-IBAKE solution depends among other things on the removal of the LI related Editor’s note.

## 3. Conclusion and Proposal

Based on the discussion in the previous section we recommend SA3-LI group develops a living document for LI solutions for IMS media plane security based on MIKEY-IBAKE.

The purpose of this living document is twofold. First, this living document would summarize different approaches for LI for MIKEY-IBAKE based IMS media plane security. These approaches for LI for MIKEY-IBAKE were already discussed in SA3-LI #42. Second, the living document would include evaluation of these different LI approaches for MIKEY-IBAKE against LI requirements for IMS media plane security.

Accompanying contribution ‘**Proposed Table of Contents for the living document on LI solutions for IMS Media Plane Security based on MIKEY-IBAKE’** outlines a Table of Content of the proposed living document.