3GPP TSG SA WG3 Security — S3#17 **S3-010038**

27 February - 02 March, 2001

Gothenburg, Sweden

3GPP TSG-CN4 **Tdoc N4-010307**
CN4 Rel-4 Ad Hoc Meeting, Madrid, SPAIN
13th February – 15th February 2001

Title: **LS Response Lawful Intercept support on the Mc interface**

Source: **TSG CN WG4**

To: **TSG SA WG3**

Cc:

Contact Person:

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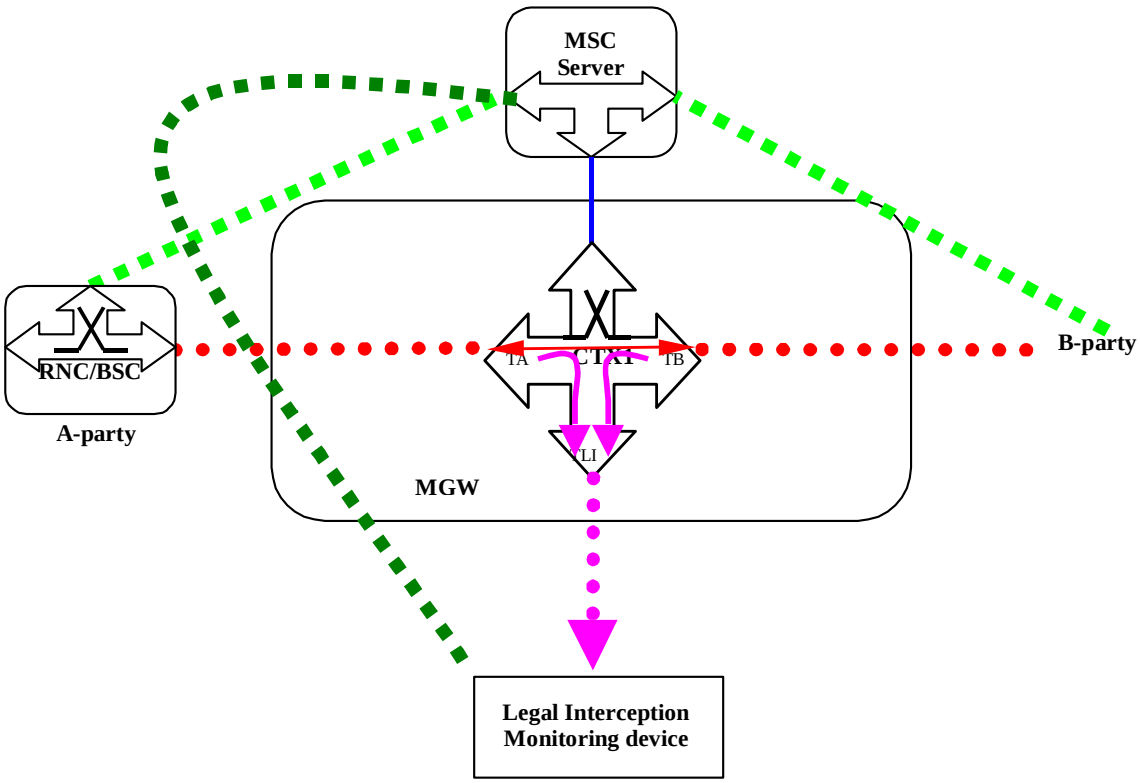
1. Overall Description:

TSG CN WG4 thanks TSG SA3 for their liaison statement on the subject of 'Lawful Intercept support on the Mc interface'. Please find a description of our findings below.

We identified the following nodes involved in a call subject to legal interception: the MSC server, the MGW and the LI monitoring device as shown in the figure. **We assume there is an X3 interface towards the MGW with the same characteristics as the other bearer interfaces on the MGW**. In such scenario, your requirement is 'S3 LI solicits your support in developing such as standard intercept control message to invoke intercept in the MGW'.

There is a mechanism already provided on the Mc interface (ITU-T H.248 protocol) to add a new termination within a context, TLI in the figure below. This allows the legal interception of one party or both (even all the parties involved in MPTY) via the so-called 'topology' concept. This new termination shall be connected to the Legal Interception monitoring device.

In the figure below the green 'squared' lines represent the signalling and the red and pink 'dotted' lines represent the bearer. The blue line between the MSC server and the MGW represents the Mc interface. The arrows within the context CTX1 represent the internal topology between every two terminations: 'bothway through-connected' between TA and TB; 'forward through-connected' from TA to TLI; and 'forward through-connected' from TB to TLI.



We have assumed that the encoding at the termination TLI is ITU-T G.711, and therefore we do not see the need for a new 'standard intercept control message' since the mechanisms which are already in the standard protocol over the Mc interface (ITU-T H.248) meet these requirements.

2. Actions:

To TSG SA3:

ACTION: TSG CN WG4 asks TSG SA WG3 to confirm our working assumption. If TSG SA WG3 is not able to confirm this assumption, we believe we'll need a join meeting to resolve this issue. This will require Legal Interception for BI CS CN will be postponed to REL-5.

3. Attachments:

None.

4. The next CN4 meeting

CN4 #07, 26th February – 2nd March 2001, Sophia Antipolis, France.

CN4 #8, 14th –18th May 2001, USA.