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4 **IMS – Dialed Digit Extraction**

5 **Spec: 3GPP TS 33.107v5.3.0 & TS 33.108v5.0.0**

6 **Release: Rel-5**

7 **Source: Telcordia Technologies and CALEA Implementation**  
8 **Section (CIS)**

9 **Document for: Discussion & Action.**

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11 **Summary**

12 This contribution identifies examines the issue of Dialed Digit Extraction, considers alternatives for addressing  
13 the issue and provides a proposal for moving forward with the issue. Dialed Digit Extraction is a mechanism for  
14 obtaining digits dialled or signalled by the intercept subject after the call has been “cut-through”. In some  
15 environments, this may be considered post-dial digits.

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1 **A. Introduction**

2 A capability needs to be supported for IMS calls involving access of post connection dialled signals and reporting those  
3 signals to the LEA<sup>1</sup>. Currently such a capability (also called dialled digit extraction) is not addressed in TS 33.107  
4 and TS 33.108.

5 This contribution identifies several options for how to support the dialled digit extraction capability within TS 33.107  
6 and TS 33.108. These options should be considered and one should be selected for incorporation into TS 33.107 and  
7 TS 33.108.

8 **B. Discussion**

9 A capability called Dialled Digit Extraction needs to be supported in IMS, as this is a need from the LEAs. Dialled  
10 Digit Extraction entails accessing post-cut-through dialled digits and reporting those digits to the LEA. At the last  
11 meeting, Lucent helped clarify that the DTMF tones sent by the intercept subject are carried using the RFC 2833  
12 mechanism. Therefore, we need to determine the best way to intercept this information and provide it to the LEAs.

13 There are 2 options (also See Figure 1) for intercepting this information:

- 14 1. Interception at the xGSN
- 15 2. Interception at DF3

16 With the first option, the xGSN (e.g., SGSN) intercepts the DTMF sent and reports this to the LEA as IRI.

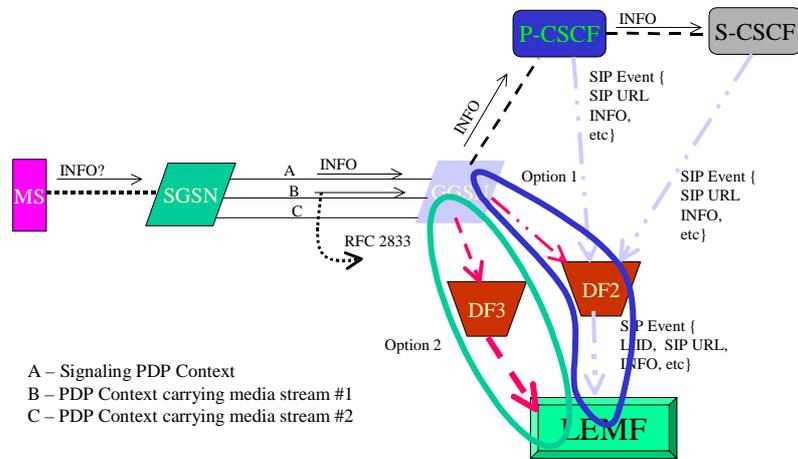
17 With the second option, the xGSN sends the packets to DF3 and DF3 examines the packets to determine whether  
18 DTMF is contained therein. If the packet contains DTMF, then the digits are reported to the LEA as IRI over the HI3  
19 interface.

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<sup>1</sup> “i ~i =EaÑcAÉã Éai=ÖÉaAaÉe-eÉei æÉ=AAÉee-ic-A~ã~eécAa-IEÇ-Ç-i~ei AU~e~ã-eaÖa~æ-Eã áiÉÇ-Áó-iÜÉ-i~eÖÉi=  
ããã Çãã0-écéiJÇãaaÉÁíçã-Çã-ãÉÇ-eãÖa~æiÖEfr o-oÉei æEã Éai=NIQIQFK=



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**Figure 1 Dialed Extraction Handling Alternatives**

3 One of the two above options should be selected and then incorporated into TS 33.107 and TS 33.108.

4 **C. Recommendations**

5 Select option 1 or 2 from Section B of this contribution

6 It is recommended that S3LI group consider the issues described in Section B of this contribution and work towards  
 7 resolving these issues. In particular, it is suggested that the group select from option 1 or 2 of Section B of this  
 8 contribution to be used in forward path.