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Washington D.C., USA

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**Agenda Item:**

**WI / Topic:** Security

**Source:** Ericsson

**Title:** Support of UMTS AKA for GSM only R99 mobiles

**Effected Specifications / Releases:**

**Document for:** Discussion

**Date:** 2000-09-12

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## 1. Introduction

Working groups as T3 and N1 has made different working assumptions regarding the optional or mandatory support of UMTS-AKA by a GSM R99 ME's.

N1 has made the working assumption that a GSM only R99 mobile has to support UMTS-AKA (see statement in chapter 4.3.2.5.1 in TS 24.008 v.3.4.1).

T3 has made the working assumption that a GSM only R99 ME is not required to support UMTS AKA as it is only available with a USIM and that support of USIM is not required for a GSM only R99 ME.

## 2. Problems

Ericsson sees some problems with making the support of UMTS AKA and USIM/ME interface applicable for a R99 GSM only ME:

1. Specification GSM 11.11 R99 which specifies the GSM SIM/ME interface, contains modifications of SoLSA and the addition of Compact Edge, which has not been incorporated in specification TS 31.102 which specifies the USIM/ME interface.  
Therefore we can't delete the GSM 11.11 R99 specification as it contains features that are not included in TS 31.102.
2. If we assume that the working assumption is that a GSM only R99 ME has to support UMTS AKA, then this would in fact mean that a GSM only R99 mobile has to support both:
  - the SIM/ME interface specified in GSM 11.11; and
  - the USIM/ME interface specified in TS 31.102or;  
the specification GSM 11.11 R99 has to be updated to include support of UMTS AKA which would create a lot of work,  
or;  
the specification TS 31.102 has to be updated to include the modifications of SoLSA already available in GSM 11.11 and the addition of Compact Edge. In addition, SoLSA for UMTS is still open issue.

## 3. Conclusion

To ensure that the standardisation of the USIM and GSM SIM R99 specifications are not delayed, Ericsson proposes that the support of UMTS AKA and USIM/ME interface are not applicable for a R99 GSM only ME.

