

13 September, 2001, Sophia Antipolis, France

CR-Form-v4

**CHANGE REQUEST**

⌘ **33.200** CR **009** ⌘ ev **-** ⌘ Current version: **4.0.0** ⌘

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**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

**Title:** ⌘ Content and identifiers of a MAPSec SA

**Source:** ⌘ SA WG3 (MAP ad-hoc)

**Work item code:** ⌘ MAPsec

**Date:** ⌘ 13-09-2001

**Category:** ⌘ **F**

**Release:** ⌘ Rel-4

Use one of the following categories:

**F** (correction)

**A** (corresponds to a correction in an earlier release)

**B** (addition of feature),

**C** (functional modification of feature)

**D** (editorial modification)

Detailed explanations of the above categories can be found in 3GPP [TR 21.900](#).

Use one of the following releases:

2 (GSM Phase 2)

R96 (Release 1996)

R97 (Release 1997)

R98 (Release 1998)

R99 (Release 1999)

REL-4 (Release 4)

REL-5 (Release 5)

**Reason for change:** ⌘ In line with other CRs presented to this meeting, this CR proposes that Fallback to unprotected mode indicator is moved from MAPSec SA to form part of the SPD instead. What is new in this CR is that definition of Fallback indicator is removed from the description of a MAPSec SA, thing that was not done in the other CRs.

Additionally, it was not stated in the specification what the identifiers of a MAPSec SA were.

**Summary of change:** ⌘ Remove the unnecessary sequence of presentation of the SA.

Fallback to unprotected mode indicator is removed from content of a MAPSec SA.

It is stated that PLMN-id and SPI are the identifiers of a MAPSec SA.

**Consequences if not approved:** ⌘ Incomplete specification.

**Clauses affected:** ⌘ 5.4

**Other specs affected:** ⌘  Other core specifications ⌘  Test specifications  
 O&M Specifications

**Other comments:** ⌘ See also CR008

## 5.4 MAPsec security association attribute definition

The MAPsec security association is a sequence of shall contain the following data elements:

~~MAPsec security association = MEA // MEK // MIA // MIK // PPI // Fallback // SA lifetime~~

- **MAP Encryption Algorithm identifier (MEA):**

Identifies the encryption algorithm. Mode of operation of algorithm is implicitly defined by the algorithm identifier. Mapping of algorithm identifiers is defined in clause 5.6.

- **MAP Encryption Key (MEK):**

Contains the encryption key. Length is defined according to the algorithm identifier.

- **MAP Integrity Algorithm identifier (MIA):**

Identifies the integrity algorithm. Mode of operation of algorithm is implicitly defined by the algorithm identifier. Mapping of algorithm identifiers is defined in section 5.6.

- **MAP Integrity Key (MIK):**

Contains the integrity key. Length is defined according to the algorithm identifier.

- **Protection Profile Identifier (PPI):**

Identifies the protection profile. Length is 16 bits. Mapping of profile identifiers is defined in section 6.

~~- **Fallback to Unprotected Mode Indicator (FALLBACK):**~~

~~— In the case that protection is available, this parameter indicates whether fallback to unprotected mode is allowed. This is a one bit indicator where the value one indicates that fall back to unprotected mode is permitted and value zero indicates that fallback to unprotected mode is not permitted.~~

~~Editor's note: The fallback indicator may be moved to the SPD.~~

- **SA Lifetime:**

Defines the actual expiry time of the SA. The expiry of the lifetime shall be given in UTC time.

Editor's Note: The exact format and length to be defined.

A MAPsec SA is uniquely identified by a destination PLMN-Id and a Security Parameters Index, SPI. As a consequence, during SA creation, the SPI is always chosen by the receiving side.

If the SA is to indicate that MAPsec is not to be applied then all the algorithm attributes shall contain a NULL value.