S3-030677

CR-Form-v7	
æ	33.310 CR - # rev - # Current version: 0.6.0
For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.	
Proposed change a	<i>iffects:</i> UICC apps# ME Radio Access Network Core Network X
Title: ೫	Clarification of SEG certificate profiling
Source: ೫	Nokia, Siemens, T-Mobile, Vodafone
Work item code: ೫	NDS/AF Date: # 06/11/2003
	Use one of the following categories: Use one of the following releases: F (correction) 2 (GSM Phase 2) A (corresponds to a correction in an earlier release) R96 (Release 1996) B (addition of feature), R97 (Release 1997) C (functional modification of feature) R98 (Release 1998) D (editorial modification) R99 (Release 1999) Detailed explanations of the above categories can Rel-4 (Release 4) be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6) Rel-6 (Release 6)
	certificate of the remote SEG B. Therefore, it can not insert the CA identity in advance into its certification request. If SEG B is allowed to have multiple certificates for itself, it also does not generally know in advance, which one to use during IKE exchange with SEG A.
Summary of change	e: # Added clarification that each SEG shall use only one certificate for itself within NDS/AF.
Consequences if not approved:	ᢞ Potential for interoperability problems.
Clauses affected:	¥ 6.1.3
Other specs affected:	Y N % N Other core specifications % N Test specifications % N O&M Specifications
Other comments:	¥ -

6.1.3 SEG Certificate profile

SEG certificates shall be directly signed by the roaming CA, i.e. without employing any intermediate CAs. This limits NDS/AF complexity and makes retrieval and validation of intermediate CA certificates by SEGs unnecessary. <u>Any</u> <u>SEG shall use exactly one certificate to identify itself within the NDS/AF.</u>

In addition to clause 6.1.1, following requirements apply:

- The RSA key length shall be at least 1024-bit

Motivation: "RSA Laboratories currently recommends key sizes of 1024 bits for corporate use and 2048 bits for extremely valuable keys like the root key pair used by a certifying authority "

see http://www.rsasecurity.com/rsalabs/faq/3-1-5.html

- Issuer name is the same as the subject name in the roaming CA certificate.
- Extensions:
 - o Optionally non critical authority key identifier
 - o Optionally non critical subject key identifier
 - o Mandatory non-critical subjectAltName
 - o Mandatory critical key usage: At least digitalSignature and keyEncipherment shall be set.
 - Optional critical extended key usage: If present, at least server authentication and IKE intermediate shall be set
 - o Mandatory critical Distribution points: CRL distribution point