**3GPP TSG-SA3 Meeting #110Ad-Hoc-e *S3-23xxxx***

**Electronic meeting, Online, 17 - 21 April 2023**

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| *CR-Form-v12.1* | | | | | | | | |
| **Draft CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.310** | **CR** | **draft-CR** | **rev** | **-** | **Current version:** | **18.0.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Skeleton for Automated Certificate Management in SBA (normative) | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ACM\_SBA | | | | |  | ***Date:*** | | | 2023-04-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change 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](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Skeleton for how the work on Automated Certificate Management study can be implemented in TS 33.310. This draft CR is intended to compile the normative work. | | | | | | | | |
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| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

*\*\*\* START OF CHANGES \*\*\**

# 10 Certificate Management for SBA

## 10.1 General

Editor's Note: This clause introduces the new chapter and the specific contents to be included in next sub-clauses. The list of contents to be included in the normative text is not closed yet, so the current outline can be extended with new clauses.

## 10.2 Certificate enrolment and renewal for SBA NFs

Editor's Note: This clause describes the protocol and corresponding procedures for certificate enrolment and renewal for SBA NFs.

### 10.2.1 CMP Profiling

Editor's Note: This clause describes the parametrization proposed for CMP protocol framework, and will include sub-clauses corresponding to General Requirements, profile for PKIMessage, profile for PKIHeader field, and profile for the PKIBody field.

### 10.2.2 CMP transport

Editor's Note: This clause describes the transport options for CMP.

## 10.3 Configuration of initial trust

Editor's Note: This clause describes the procedure and mechanisms recommended to set up the initial trust between NF and operator CA/RA to proceed with the certificate enrolment.

## 10.4 Certificate lifecycle management

Editor's Note: This clause describes several procedures dealing with the certificate’s lifecycle management.

### 10.4.1 Certificates revocation procedures

Editor's Note: This clause describes the recommended certification revocation schemas to be supported in SBA, in principle CRLs, and potentially (to be evaluated) OCSP and OCSP stapling. Corresponding sub-clauses can be added if required.

## 10.5 Validation of the purpose of the X.509 certificate

Editor's Note: This clause describes the procedure to indicate and validate the purpose of the X.509 certificates used in SBA.

*\*\*\* END OF CHANGES \*\*\**