**3GPP TSG- Meeting # *draft\_-r1***

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** | 1 | **Current version:** |  |  |
|  |
| *For* [***HELP***](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:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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 canbe 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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | Clarify the certificate profile for SCP. |
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| ***Summary of change:*** | Editorial change to replace SECOP to SCP.Add one clause to clarify that NF certificate profile requirements are applicable to SCP certificate profile with some deviations. |
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| ***Consequences if not approved:*** | Inconsistent implementation which may cause interoperability problems. |
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| ***Clauses affected:*** | 6.1.3c.1, 6.1.3c.2, 6.1.3c.x (new) |
|  |  |
|  | **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:*** | S3-214290, S3-220477 |

### \*\*\* BEGIN CHANGES 1 \*\*\*

### 6.1.3c SBA Certificate profile

#### 6.1.3c.1 Introduction

Clause 6.1.3c profiles the certificates to be used for 5GC Service Based Architecture (SBA).

Different TLS entity certificate profile requirements may be applied to intra-domain and/or inter-domain SBA for NF producers, NF consumers and NRF instances, Service Communication Proxy (SCP) nodes, and Security Edge Protection Proxy (SEPP) nodes applicable to 3GPP 5GC roaming. A separate TLS entity certificate profile is also needed to cover the usage of the certificates issued by the InterconnectionCA(s) for inter-domain SBA context for TLS connections between SEPP nodes. Furthermore, separate TLS entity certificate profile requirements may be applied for Service Communication Proxy (SCP) needed for 3GPP 5GC SBA Indirect Communication model architectural Options C and D.

#### 6.1.3c.2 General SBA Certificate profile

The following additions and deviations to the common profiles shall hold for all SBA-related entities (NFs, SCPs, SEPPs):

- Signature algorithm: RSAEncryption need not be supported.

- ECDSA is recommended for TLS entity certificates with 5GC Service Based Architecture (SBA).

### \*\*\* END CHANGES 1 \*\*\*

### \*\*\* BEGIN CHANGES 2 \*\*\*

#### 6.1.3c.x SCP certificate profile

TLS certificates shall be directly signed by the CA in the operator domain that the SCP entity belongs to.

The same requirements to the NF certificate profile as listed in clause 6.1.3c.3 apply, except for the following requirements that are not applicable to the SCP certificate profile:

- The following requirement is not applicable: "subjectAltName should (in TLS server certificates) contain URI-ID with the HTTPS URI(s) for the apiRoot of a Network Function producer instance for the NF service API(s) that it provides; using wildcard URIs should be avoided";

- The following requirement is not applicable: "subjectAltName should (in TLS server certificates) contain URI-IDs with the HTTPS URI(s) for the apiRoot of a Network Function consumer instance for the NF service callback URI(s) that it provides; using wildcard URIs should be avoided".

### \*\*\* END CHANGES 2 \*\*\*