**3GPP TSG-SA3 Meeting #99e *S3-201046-r2***

**e-meeting, 11 – 15 May 2020**

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| *CR-Form-v11.2* |
| **CHANGE REQUEST** |
|  |
|  | **33.210** | **CR** | **0070** | **rev** | **-** | **Current version:** | **16.3.0** |  |
|  |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  | TLS 1.3 cipher suites |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | CryptPr |  | ***Date:*** | 2020-04-30 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | 3GPP should support a higher security level and so recommend ecdsa\_secp384r1\_sha384. Typo "extention" instead of "extension". |
|  |  |
| ***Summary of change:*** | Text added to recommend ecdsa\_secp384r1\_sha384.Corrected typo. |
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| ***Consequences if not approved:*** | Critical 3GPP systems might use non-recommended cipher suites leading to weaknesses |
|  |  |
| ***Clauses affected:*** | 6.2.2. |
|  |  |
|  | **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:*** |  |

\*\*\* BEGIN CHANGES \*\*\*

## 6.2.2 Profiling for TLS 1.3

TLS 1.3 shall support the following restrictions and extensions:

**TLS cipher suites and Diffie-Hellman groups**

- The requirements given in section 9.1 of TLS 1.3 RFC 8446 [66] shall be followed. In addition:

- Key exchange with secp384r1 should be supported.

**TLS signature schemes**

- ecdsa\_secp384r1\_sha384 should be supported.

**TLS extensions**

- The requirements given in section 9.2 of TLS 1.3 RFC 8446 [66] shall be followed. In addition:

- The OCSP Status extension (a.k.a. certificate status request), as defined in RFC 6066 [57] and RFC 8466 [66] should be supported.

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