**3GPP TSG-SA3 Meeting #98e *S3-200291-r1***

**e-meeting, 2 – 6 March 2020**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **33.501** | **CR** | **0756** | **rev** | **-** | **Current version:** | **16.1.0** |  |
|  |
| *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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | 3gpp-Sbi\_Target-apiRoot header and TLS on N32 |
|  |  |
| ***Source to WG:*** | Ericsson, Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | 5G\_eSBA |  | ***Date:*** | 2020-02-21 |
|  |  |  |  |  |
| ***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:*** | The current behaviour described in clause 13.1.1.2 "TLS protection based on 3gpp-Sbi-Target-apiRoot HTTP header" only applies when PRINS is used on the N32-f interface. If TLS is used on the N32 interface, the behaviour is not specified. |
|  |  |
| ***Summary of change:*** | Specifies behaviour of the SEPP when it receives an HTTP Request with 3gpp-Sbi-Target-apiRoot header and TLS is used on the N32 interface. |
|  |  |
| ***Consequences if not approved:*** | Behaviour of the SEPP not specified when it receives an HTTP Request with 3gpp-Sbi-Target-apiRoot header and TLS is used on the N32 interface |
|  |  |
| ***Clauses affected:*** | 13.1.1.2 |
|  |  |
|  | **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:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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

13.1.1.2 TLS protection based on 3gpp-Sbi-Target-apiRoot HTTP header

The NF uses the 3gpp-Sbi-Target-apiRoot HTTP header in the HTTP Request to convey the target FQDN to the SEPP.

If PRINS is used on the N32-f interface, the following applies: The SEPP shall use the 3gpp-Sbi-Target-apiRoot header to obtain the apiRoot to be used in the request URI of the protected HTTP Request. It removes the 3gpp-Sbi-Target-apiRoot header before forwarding the protected HTTP Request on the N32-f interface.

If TLS is used on the N32 interface, the following applies: The SEPP shall replace the authority header in the HTTP Request with the FQDN of the receiving SEPP before forwarding the protected HTTP Request on the N32 interface. The SEPP shall not change the 3gpp-Sbi-Target-apiRoot header.

NOTE: This solution does not require the SEPP to support TLS wildcard certificate for its domain name during TLS setup, nor the SEPP to generate a telescopic FQDN for the target FQDN.

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