**3GPP TSG-SA1 Meeting #99e *S1-22xxxx***

**Electronic Meeting,** **22 August-1 September 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **22.261** | **CR** | **xxxx** | **Rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Visiting a PIN after credentials provisioning in home PIN | | | | | | | | | |
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| ***Source to WG:*** | vivo | | | | | | | | | |
| ***Source to TSG:*** | S1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | PIN\_ph2 | | | | |  | ***Date:*** | | | 2022-08-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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)*  *Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Rel18 PIRates specifies that 5GS supports secure provisioning of credentials to a non-3GPP device via a gateway UE, whose User Identifier has been linked with the 3GPP subscription of the gateway UE, to enable the non-3GPP device to access the network and its services according to the linked 3GPP subscription when connected via non-3GPP access.  It is not clear for the above release18 requirement whether the non-3GPP device is allowed to access the network via any other gateway UE which is different from the gateway UE provisioning the credential .  Considering a user may have data privacy concern (e.g., personal healthy data) for the non-3GPP device, the 5GS should be able to identify whether the non-3GPP devices attempt to access the network via the home gateway UE(whose 3GPP subscription is linked with the non-3GPP device’s credentical), or via a visited gateway UE (which is different from the home gateway UE), and furthermore determine whether the accessing the network via the visited gateway UE is allowed or not:  - Forbidding the non-3GPP device to access the network and its services via visited gateway UE(s) if there’s no Service Level Agreement (SLA) between the home gateway UE and the visited gateway UE(s).  - Allowing the non-3GPP device to access the network and its services via visited gateway UE(s) according to the linked 3GPP subscription if the SLA between the home gateway UE and the visited gateway UE(s) is available. | | | | | | | | |
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| ***Summary of change:*** | | Add requirement for the 5GS to manage accessing a visit PIN. | | | | | | | | |
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| ***Consequences if not approved:*** | | It is not possible that 5GS supports to forbid or allow the non-3GPP device acessing the network and its service via a visted gateway UE (subject to user data privacy). | | | | | | | | |
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| ***Clauses affected:*** | | 6.38.2.10 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 1st change\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

#### 6.38.2.10 Management of accessing visit PIN

After a PIN Element has been linked with the 3GPP subscription of a PIN Element with Gateway Capability in home PIN, the 5G system shall support a mechanism for the network operator to manage the PIN Element accessing visit PIN, including:

- Enable the PIN Element to request to join the visit PIN based on the agreement between the two users of the two PINs;

- Authorize/deauthorise if the PIN Element can use a PIN Element with Gateway Capability in the visit PIN to communicate with the 5GS based on the relationship between the two 3GPP subscriptions of the two PIN Elements with Gateway Capability;

- Authorize/deauthorise for the PIN Element which applications/service or service in visit PIN it can access based on the agreement between the two users of the two PINs;

- Configure the PIN Element which external applications/service via 5GS it can access based on the linked 3GPP subscription;

- Collet charging data for traffic to/from the PIN Element in visit PIN and ;

- generate the charging data for traffic to/from the PIN Element with the linked 3GPP subscription in visit PIN;

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*end of changes\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***