**3GPP TSG-SA1 Meeting #94e-bis *S1-21xxxx***

**Electronic Meeting, 4 – 12 July 2021** *(revision of S1-21xxxx)*

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **22.859** | **CR** | **<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 | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | Existing requirements update | | | | | | | | | |
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| ***Source to WG:*** | vivo | | | | | | | | | |
| ***Source to TSG:*** | 3GPP SA1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_PIN | | | | |  | ***Date:*** | | | 21st June 2021 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In the exercise of doing the consolidated requirements (see CR#xx) there was some comments made that 3GPP TS 22.261 sub-clause 6.3.2.1, 6.5.2, 6.9.2.1, 6.19.1 contained existing requirements. This CR captures those specific sections against the relevant 2 usecases and identities the defencies to justify why those existing requirements are do not overlap with the new potential requirements. | | | | | | | | |
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| ***Summary of change:*** | | Add partly existing requirements and analysis of them. | | | | | | | | |
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| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.4.5, 5.7.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\*FIRST CHANGE\*\*\*\*

### 5.4.5 Existing features partly or fully covering the use case functionality

3GPP TS 22.261 [2] "The 5G system shall be able to support a UE using simultaneous indirect and direct network connection mode" indicates that a UE can transmit simultaneously however direct network mode is between a UE and the network. The use case in sub-clause 5.4.3 has no user plane traffic (i.e. movie) going to the network.

3GPP TS 22.261 [2] sub-clause 6.3.2.1 has the following requirements:

"*Based on operator policy, the 5G system shall be able to provide simultaneous data transmission via different access technologies (e.g. NR, E-UTRA, non-3GPP), to access one or more 3GPP services.*

*When a UE is using two or more access technologies simultaneously, the 5G system shall be able to optimally distribute user traffic over select between access technologies in use, taking into account e.g. service, traffic* characteristics*, radio characteristics, and UE's moving speed.*

*The 5G system shall be able to support data transmissions optimized for different access technologies (e.g. 3GPP, non-3GPP) for UEs that are simultaneously connected to the network via different accesses.*"

These requirements talk about “access technologies” which if you read 3GPP TS 22.261 [2] clause 6.3.1 identifies NR, E-UTRA and non 3GPP. There is no reference to direct device connection in the section.

3GPP TS 22.261 [2] sub-clause 6.5.2 " Based on operator policy, application needs, or both, the 5G system shall support an efficient user plane path between UEs attached to the same network, modifying the path as needed when the UE moves during an active communication." This requirement is regarding a UE that connects to the network and not using direct device connectivity.

3GPP TS 22.261 [2] sub-clause 6.9.2,1 contains following requirements:

"*The connection between a remote UE and a relay UE shall be able to use 3GPP RAT or non-3GPP RAT and use licensed or unlicensed band.*

*The connection between a remote UE and a relay UE shall be able to use fixed broadband technology.*

*The 5G system shall be able to support a UE using simultaneous indirect and direct network connection mode.*”

These requirements do not make mention to any aggregating, switching or splitting of data across non-3GPP RAT and licensed 3GPP RAT.

3GPP TS 22.261 [2] sub-clause 6.19,1 contains selection criteria for 3GPP access network selection. These requirements, as they for “access network” have same deficiencies as list above when analysing 3GPP TS 22.261 [2] clause 6.3.1.

3GPP TS 22.278 [5] "Subject to operator policy and user consent the EPC and a ProSe-enabled UE shall be capable of negotiating the move of a traffic flow between the EPC Path and the ProSe-assisted WLAN direct path." Indicates that a UE can move traffic between an EPC Path and ProSe WLAN direct path however the use case in sub-clause 5.4.3 has no user plane traffic (i.e. movie) going to the network

3GPP TS 22.278 [5] "Both the HPLMN and VPLMN operators shall be able to charge for ProSe-assisted WLAN direct communications. " however these requirements are written in the context of the network being involved and user plane traffic going to the network.

\*\*\*\*NEXT CHANGE\*\*\*\*

### 5.7.5 Existing features partly or fully covering the use case functionality

3GPP TS 22.261 [2] clause 6.9.2 contains requirements for UE communications with the 5GS using a relay and direct device communications.

3GPP TS 22.261 [2] clause 6.3 contains requirement

- The 5G system shall support the capability to operate in licensed and/or unlicensed bands.

3GPP TS 22.101 [3] clause 26a.

3GPP TS 22.261 [2] sub-clause 6.3.2 contains requirements. See clause 5.4.5 for an analysis of these requirements.

\*\*\*\*END Change\*\*\*\*