**3GPP TSG- Meeting # *s3i250055***

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** | **1** | **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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | SMF enhancement for LI for 5G ProSe Communication via 5G ProSe UE-to-Network Relay - Stage 2 |
|  |  |
| ***Source to WG:*** | SA3LI (Ministère Economie et Finances) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | Absence of LI for 5G ProSe Communication via 5G ProSe UE-to-Network Relay - Stage 2 |
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| ***Summary of change:*** | SMF enhancement for LI for 5G ProSe Communication via 5G ProSe UE-to-Network Relay - Stage 2 |
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| ***Consequences if not approved:*** | LI for 5G ProSe Communication via 5G ProSe UE-to-Network Relay - Stage 2 would still be missing |
|  |  |
| ***Clauses affected:*** | 6.2.3.3 |
|  |  |
|  | **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:*** | s3i250017 |

 START OF FIRST CHANGE

#### 6.2.3.3 IRI events

The IRI-POI present in the SMF shall generate xIRI, when it detects the following specific events or information:

- PDU session establishment.

- PDU session modification.

- PDU session release.

- Start of interception with an established PDU session.

- ProSe Remote UE report.

- Start of interception with connected ProSe remote UE.

The PDU session establishment xIRI is generated when the IRI-POI present in the SMF detects that a PDU session has been established for the target UE.

The PDU session modification xIRI is generated when the IRI-POI present in the SMF detects that :

- A PDU session is modified for the target UE.

- ProSe Remote UE(s) connect to or disconnect from a target UE behaving as 5G ProSe layer-3 UE-to-network relay UE.

The PDU session release xIRI is generated when the IRI-POI present in the SMF detects that a PDU session is released for the target UE.

The start of interception with an established PDU session xIRI is generated when the IRI-POI present in a SMF detects that interception is activated :

- On the target UE that has an already established PDU session in the 5GS.

 - On the target UE behaving as a 5G ProSe layer-3 UE-to-network relay UE that has an already established PDU session in the 5GS with already connected 5G ProSe remote UE(s).

When a target UE has multiple PDU sessions, this xIRI shall be sent for each PDU session with a different value of correlation information.

The remote UE report xIRI is generated when the IRI-POI present in the SMF detects that a target 5G ProSe remote UE is connected to or disconnected from a 5G ProSe layer-3 UE-to-network relay.

The start of interception with connected ProSe remote UE xIRI is generated when the IRI-POI present in the SMF detects that interception is started for a target 5G ProSe Remote UE which is already connected to a ProSe layer-3 UE-to-network Relay.When additional warrants are activated on a target UE, MDF2 shall be able to generate and deliver the start of interception with an established PDU session related IRI messages to the LEMF associated with the warrants without receiving the corresponding start of interception with an established PDU session xIRI.

When the warrant requires the packet header information reporting, the following xIRI shall be generated:

- Packet header information report (see clause 7.12.2).

The generation of packet header information reporting can be done by either the IRI-POI present in the UPF or the MDF2.

 END OF FIRST CHANGE

 END OF LAST CHANGE