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| **3GPP TSG-SA5 Meeting #142-e *S5-222311rev2***  **e-meeting, 4 - 12 April 2022**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *CR-Form-v12.1* | | | | | | | | | | **CHANGE REQUEST** | | | | | | | | | |  | | | | | | | | | |  | **32.277** | **CR** |  | **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 |  | Radio Access Network | | | | |  | Core Network | **x** |
|  | | | | | | | | | | | | | | | | | |
| ***Title:*** | CDR generation and handling for 5G ProSe converged charging | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | |
| ***Work item code:*** | 5G\_ProSe | | | | | | | | |  | ***Date:*** | | |  | | | |
|  |  | | | | |  | | | | |  | | |  | | | |
| ***Category:*** | **B** |  | | | | | | | | | ***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 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:*** | | CDR generation and handling for converged charging is missing | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
| ***Summary of change:*** | | Adding of the CDR generation and handling for the converged charging both PEC and SCUR | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
| ***Consequences if not approved:*** | | No CDR generation or handling for the converged charging of 5G ProSe. | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
| ***Clauses affected:*** | | 5.4.x (new), 5.4.y (new), 5.4.z (new) | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
|  | | **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:*** | | The clause number in 5.4.x.2.2 depends on CR S5-222314 | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | | | | | | | | |

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| **1st modified section** |

### 5.4.x CDR generation

#### 5.4.x.1 Introduction

The CHF CDRs for 5G ProSe charging are generated by the CHF to collect charging information that they subsequently transfer to the Charging Gateway Function (CGF).

The following clauses describe in details the conditions for generating, opening and closing the CHF CDR, which shall be supported by the CHF.

#### 5.4.x.2 Triggers for CHF CDR

##### 5.4.x.2.1 General

A CHF CDR is used to collect charging information related to ProSe Direct Communication and ProSe Direct Discovery chargeable events for PEC, IEC and SCUR.

##### 5.4.x.2.2 Triggers for CHF CDR charging information addition

The triggers for CHR CDR charging information addition defined in clause 5.2.1.2 can be reused for 5G ProSe. Details of the container are defined in clause 6.x.3.

##### 5.4.x.2.3 Triggers for CHF CDR generation

A CHF CDR is generated by the CHF for each received Charging Data Request[Event].

##### 5.4.x.2.4 Triggers for CHF CDR opening

A CHF CDR shall be opened when the CHF receives Charging Data Request[Initial].

##### 5.4.x.2.5 Triggers for CHF CDR update

The CHF CDR shall be updated when the CHF receives Charging Data Request[Update].

##### 5.4.x.2.6 Triggers for CHF CDR closure

The CHF CDR shall be closed when the CHF receives Charging Data Request[Termination].

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| **Next change** |

### 5.4.y Ga record transfer flows

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| Details of the Ga protocol application are specified in TS 32.295 [6].**Next change** |

### 5.4.z Bx CDR file transfer

Details of the Bea protocol application are specified in TS 32.297 [5].

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| **End of changes** |