|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **3GPP TSG-SA5 Meeting #143-e *S5-223439***  **e-meeting, 9 - 17 May 2022**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | *CR-Form-v12.1* | | | | | | | | | | **CHANGE REQUEST** | | | | | | | | | |  | | | | | | | | | |  | **32.291** | **CR** | **00403** | **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)*.* | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | | | UICC apps | | | |  | ME |  | Radio Access Network | | | | |  | Core Network | **x** |
|  | | | | | | | | | | | | | | | | | |
| ***Title:*** | Introduce Binding for 5G Prose 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:*** | | The binding between the 5G ProSe converged Charging Information element, Resource Attribute and CDR fields needs to be introduced. | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
| ***Summary of change:*** | | Introduce new clause on binding | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
| ***Consequences if not approved:*** | | No converged charging of 5G ProSe. | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
| ***Clauses affected:*** | | 7.x(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:*** | |  | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | | | | | | | | |

|  |
| --- |
| **1st modified section** |

## 7.x Bindings for 5G ProSe charging

Table 7.x-1: Bindings of 5G ProSe charging CDR field, Information Element and Resource Attribute

| Information Element | CDR Field | Resource Attribute |
| --- | --- | --- |
|  |  | **ChargingDataRequest** |
| Supported Features | - | **/**supportedFeatures |
| Multiple Unit Usage | List of Multiple Unit Usage | /multipleUnitUsage |
| Used Unit Container | Used Unit Container | /multipleUnitUsage/usedUnitContainer |
| PC5 Container Information | PC5 Container Information | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation |
| Coverage Info | Coverage Info | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/coverage Info |
| Radio Parameter Set Info | Radio Parameter Set Info | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/radioParameterSet Info |
| Transmitter Info | Transmitter Info | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/transmitterInfo |
| Time of First Transmission | Time of First Transmission | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/timeOfFirst Transmission |
| Time of First Reception | Time of First Reception | /multipleUnitUsage/usedUnitContainer/pC5 ContainerInformation/TimeOfFirstReception |
| ProSe Information | ProSe Information | /proSeInformation |
| Announcing PLMN ID | Announcing PLMN ID | /proSeInformation/announcingPlmnId |
| Announcing UE HPLMN Identifier | Announcing UE HPLMN Identifier | /proSeInformation/announcingUeHplmnId |
| Announcing UE VPLMN Identifier | Announcing UE VPLMN Identifier | /proSeInformation/announcingUeVplmnId |
| Monitoring UE HPLMN Identifier | Monitoring UE HPLMN Identifier | /proSeInformation/monitoringUeHplmnId |
| Monitoring UE VPLMN Identifier | Monitoring UE VPLMN Identifier | /proSeInformation/monitoringUeVplmnId |
| Discoverer UE HPLMN Identifier | Discoverer UE HPLMN Identifier | /proSeInformation/discovererUeHplmnId |
| Discoverer UE VPLMN Identifier | Discoverer UE VPLMN Identifier | /proSeInformation/discovererUeVplmnId |
| Discoveree UE HPLMjN Identifier | Discoveree UE HPLMN Identifier | /proSeInformation/discovereeUeHplmnId |
| Discoveree UE VPLMN Identifier | Discoveree UE VPLMN Identifier | /proSeInformation/discovereeUeVplmnId |
| Monitored PLMN Identifier | Monitored PLMN Identifier | /proSeInformation/monitoredPlmnIdentifier |
| ProSe Application ID | ProSe Application ID | /proSeInformation/proseApplicationId |
| Application ID | Application ID | /proSeInformation/applicationId |
| Application Specific Data | Application Specific Data | /proSeInformation/applicationSpecificData |
| ProSe functionality | ProSe functionality | /proSeInformation/proSeFunctionality |
| ProSe Event Type | ProSe Event Type | /proSeInformation/proSeEventType |
| Direct Discovery Model | Direct Discovery Model | /proSeInformation/directDiscoveryModel |
| Validity Period | Validity Period | /proSeInformation/validityPeriod |
| Role of UE | Role of UE | /proSeInformation/roleOfUe |
| ProSe Request Timestamp | ProSe Request Timestamp | /proSeInformation/proSeRequestTimestamp |
| PC3 Protocol Cause | PC3 Protocol Cause | /proSeInformation/pC3ProtocolCause |
| Monitoring UE Identifier | Monitoring UE Identifier | /proSeInformation/monitoringUEIdentifier |
| Requestor PLMN Identifier | Requestor PLMN Identifier | /proSeInformation/requestorPlmnIdentifier |
| Requested Application Layer User ID | Requested Application Layer User ID | /proSeInformation/requestedApplicationLayerUserId |
| Requested PLMN Identifier | Requested PLMN Identifier | /proSeInformation/requestedPlmnIdentifier |
| Time Window | Time Window | /proSeInformation/timeWindow |
| Range Class | Range Class | /proSeInformation/rangeClass |
| Proximity Alert Indication | Proximity Alert Indication | /proSeInformation/proximityAlertIndication |
| Proximity Alert Timestamp | Proximity Alert Timestamp | /proSeInformation/proximityAlertTimestamp |
| Proximity Cancellation Timestamp | Proximity Cancellation Timestamp | /proSeInformation/proximityCancellationTimestamp |
| Relay IP address | Relay IP address | /proSeInformation/relayIpAddress |
| ProSe UE-to-Network Relay UE ID | ProSe UE-to-Network Relay UE ID | /proSeInformation/proSeUeToNetworkRelayUeId |
| ProSe Destination Layer-2 ID | ProSe Destination Layer-2 ID | /proSeInformation/proSeDestinationLayer2 Id |
| PFI Container Information | PFI Container Information | /proSeInformation/pFIContainerInformation |
| PC5 QoS Flow ID | PC5 QoS Flow ID | /proSeInformation/pFIContainerInformation/pC5QosFlowId |
| Time of First Usage | Time of First Usage | /proSeInformation/pFIContainerInformation/ timeOfFirstUsage |
| Time of Last Usage | Time of Last Usage | /proSeInformation/pFIContainerInformation/  timeOfLastUsage |
| QoS Information | QoS Information | /proSeInformation/pFIContainerInformation/qosInformation |
| QoS Characteristics | QoS Characteristics | /proSeInformation/pFIContainerInformation/ qoSCharacteristics |
| User Location Information | User Location Information | /proSeInformation/pFIContainerInformation/ userLocationInformation |
| UE Time Zone | UE Time Zone | /proSeInformation/pFIContainerInformation/ueTimeZone |
| Presence Reporting Area Information | Presence Reporting Area Information | /proSeInformation/pFIContainerInformation/ presenceReportingAreaInformation |
| Report Time | Report Time | /proSeInformation/pFIContainerInformation/  reportTime |
| Transmission Data Container | Transmission Data Container | /proSeInformation/transmissionDataContainer |
| Local Sequence Number | Local Sequence Number | /proSeInformation/transmissionDataContainer/localSequenceNumber |
| Change Time | Change Time | /proSeInformation/transmissionDataContainer/changeTime |
| Coverage status | Coverage status | /proSeInformation/transmissionDataContainer/coverageStatus |
| User Location Information | User Location Information | /proSeInformation/transmissionDataContainer/userLocationInformation |
| Data Volume Transmitted | Data Volume Transmitted | /proSeInformation/transmissionDataContainer/dataVolumeTransmitted |
| Change Condition | Change Condition | /proSeInformation/transmissionDataContainer/changeCondition |
| VPLMN Identifier | VPLMN Identifier | /proSeInformation/transmissionDataContainer/vplmnIdentifier |
| Usage Information Report Sequence Number | Usage Information Report Sequence Number | /proSeInformation/transmissionDataContainer/usageInformationReportSequenceNumber |
| Radio Resources Indicator | Radio Resources Indicator | /proSeInformation/transmissionDataContainer/radioResourcesIndicator |
| Radio Frequency | Radio Frequency | /proSeInformation/transmissionDataContainer/radioFrequency |
| PC5 Radio Technology | PC5 Radio Technology | /proSeInformation/transmissionDataContainer/pC5RadioTechnology |
| Reception Data Container | Reception Data Container | /proSeInformation/receptionDataContainer |
| Local Sequence Number | Local Sequence Number | /proSeInformation/receptionDataContainer/ localSequenceNumber |
| Change Time | Change Time | /proSeInformation/receptionDataContainer/ changeTime |
| Coverage Status | Coverage Status | /proSeInformation/receptionDataContainer/ coverageStatus |
| User Location Information | User Location Information | /proSeInformation/receptionDataContainer/ userLocationInformation |
| Data Volume Received | Data Volume Received | /proSeInformation/receptionDataContainer/ dataReceived |
| Change Condition | Change Condition | /proSeInformation/receptionDataContainer/ changeCondition |
| VPLMN Identifier | VPLMN Identifier | /proSeInformation/receptionDataContainer/ vplmnIdentifier |
| Usage Information Report Sequence Number | Usage Information Report Sequence Number | /proSeInformation/receptionDataContainer/ usageInformationReportSequenceNumber |
| Radio Resources Indicator | Radio Resources Indicator | /proSeInformation/receptionDataContainer/ radioResourcesIndicator |
| Radio Frequency | Radio Frequency | /proSeInformation/receptionDataContainer/ radioFrequency |
| PC5 Radio Technology | PC5 Radio Technology | /proSeInformation/receptionDataContainer/ pC5RadioTechnology |
|  |  | **ChargingDataResponse** |
|  |  |  |

|  |
| --- |
| **End of changes** |