**3GPP TSG- Meeting #4 *2073***

[**Changsha**](https://www.3gpp.org/ftp/tsg_ct/WG3_interworking_ex-CN3/TSGC3_128_Bratislava/Invitation/)**, China, 15th April – 4**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **512** | **CR** | **1211** | **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** |

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|  | | | | | | | | | | |
| ***Title:*** | Correct the altSliceInfo attribute description. | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNS\_Ph3 | | | | |  | ***Date:*** | | | 08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | 8 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | As per S2-2403501, following updates were agreed. 6.1.3.29 Network Slice replacement for a PDU Session When the existing PDU Session is transferred from S-NSSAI to Alternative S-NSSAI, if the SMF determines that the existing PDU Session and existing SM Policy Association can be retained (e.g. if the SMF determines that same PCF can be used for the Alternative S-NSSAI) and the PCF set the Network Slice Replacement PCRT to request the SMF to report as defined in clause 6.1.3.5 , then the SMF includes the Alternative S-NSSAI in SM Policy Association modification request to PCF to update the S-NSSAI of the PDU Session.  When the existing PDU Session is transferred from Alternative S-NSSAI to the replaced S-NSSAI, if the SMF determines that the existing PDU Session and existing SM Policy Association can be retained (e.g. if the SMF determines that same PCF can be used for the Alternative S-NSSAI) and the PCF set the Network Slice Replacement PCRT to request the SMF to report as defined in clause 6.1.3.5 , then the SMF removes the Alternative S-NSSAI in SM Policy Association modification request to PCF to update the S-NSSAI of the PDU Session.  Hence, when the networks slice replacement feature is supported and PDU session is transferred from initial S-NSSAI to Alternative S-NSSAI, then the SMF indicates the Alternative S-NSSAI in the SM Policy association modification request. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | In the clause 5.6.2.19, corrected the description of altSliceInfo attribute by replacing updated S-NSSAI with Alternative S-NSSAI. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | In consistent stage-3 requirements. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.6.2.19 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 provides does not impact open API defined in this specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* First change \* \* \* \*

#### 5.6.2.19 Type SmPolicyUpdateContextData

Table 5.6.2.19-1: Definition of type SmPolicyUpdateContextData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| repPolicyCtrlReqTriggers | array(PolicyControlRequestTrigger) | C | 1..N | The policy control request triggers which are met. It is omitted if no triggers are met such as in clauses 4.2.4.7 and 4.2.4.15. |  |
| accNetChIds | array(AccNetChId) | O | 1..N | Indicates the access network charging identifier for the whole PDU session. For EPS interworking scenarios, it indicates the access network charging identifier for the PCC rule(s) or the whole PDU session. |  |
| accessType | AccessType | O | 0..1 | The Access Type where the served UE is camping. |  |
| ratType | RatType | O | 0..1 | The RAT Type where the served UE is camping. |  |
| addAccessInfo | AdditionalAccessInfo | O | 0..1 | Indicates the combination of added Access Type and RAT Type for MA PDU session. | ATSSS |
| relAccessInfo | AdditionalAccessInfo | O | 0..1 | Indicates the combination of released Access Type and RAT Type for MA PDU session. | ATSSS |
| servingNetwork | PlmnIdNid | O | 0..1 | The serving network (a PLMN or an SNPN) where the served UE is camping. For the SNPN the NID together with the PLMN ID identifies the SNPN. |  |
| userLocationInfo | UserLocation | O | 0..1 | The location(s) where the served UE is camping. (NOTE 4) |  |
| ueTimeZone | TimeZone | O | 0..1 | The time zone where the served UE is camping. |  |
| ipv4Address | Ipv4Addr | O | 0..1 | The IPv4 Address of the served UE. |  |
| ipDomain | string | O | 0..1 | IPv4 address domain identifier.  (NOTE 2) |  |
| relIpv4Address | Ipv4Addr | O | 0..1 | Indicates the released IPv4 Address of the served UE. |  |
| ipv6AddressPrefix | Ipv6Prefix | O | 0..1 | The Ipv6 Address Prefix of the served UE. (NOTE 6) |  |
| relIpv6AddressPrefix | Ipv6Prefix | O | 0..1 | Indicates the released IPv6 Address Prefix of the served UE in multi-homing case. (NOTE 6) |  |
| relUeMac | MacAddr48 | O | 0..1 | Indicates the released MAC Address of the served UE. |  |
| ueMac | MacAddr48 | O | 0..1 | The MAC Address of the served UE. |  |
| subsSessAmbr | Ambr | O | 0..1 | UDM subscribed or DN-AAA authorized Session-AMBR. |  |
| authProfIndex | string | O | 0..1 | DN-AAA authorization profile index. | DN-Authorization |
| subsDefQos | SubscribedDefaultQos | O | 0..1 | Subscribed Default QoS Information. |  |
| vplmnQos | VplmnQos | O | 0..1 | QoS constraints in a VPLMN (NOTE 5) | VPLMN-QoS-Control |
| vplmnQosNotApp | boolean | O | 0..1 | If it is included and set to true, indicates that the QoS constraints in the VPLMN are not applicable. (NOTE 5) | VPLMN-QoS-Control |
| numOfPackFilter | integer | O | 0..1 | Contains the number of supported packet filter for signalled QoS rules.  (NOTE 1) |  |
| accuUsageReports | array(AccuUsageReport) | O | 1..N | Contains the accumulated usage report(s). | UMC |
| 3gppPsDataOffStatus | boolean | O | 0..1 | If it is included and set to true, the 3GPP PS Data Off is activated by the UE. | 3GPP-PS-Data-Off |
| appDetectionInfos | array(AppDetectionInfo) | O | 1..N | Reports the start/stop of the application traffic and detected SDF descriptions if applicable. | ADC |
| ruleReports | array(RuleReport) | O | 1..N | Used to report the PCC rule failure. |  |
| sessRuleReports | array(SessionRuleReport) | O | 1..N | Used to report the session rule failure. | SessionRuleErrorHandling |
| qncReports | array(QosNotificationControlInfo) | O | 1..N | QoS Notification Control information. |  |
| qosMonReports | array(QosMonitoringReport) | O | 1..N | QoS Monitoring reporting information with packet delay. It shall be present when the notified event is "QOS\_MONITORING" and packet delay measurements are available. | QosMonitoring |
| qosMonDatRateReps | array(QosMonitoringReport) | O | 1..N | QoS Monitoring reporting information with data rate measurements. It shall be present when the notified event is "QOS\_MONITORING" and data rate measurements are available. | EnQoSMon |
| qosMonCongReps | array(QosMonitoringReport) | O | 1..N | QoS Monitoring reporting information with congestion measurements. It shall be present when the notified event is "QOS\_MONITORING" and data rate measurements are available. | EnQoSMon |
| userLocationInfoTime | DateTime | O | 0..1 | Contains the NTP time at which the UE was last known to be in the location. (NOTE 3) |  |
| repPraInfos | map(PresenceInfo) | O | 1..N | Reports the changes of presence reporting area. The "praId" attribute within the PresenceInfo data type shall also be the key of the map. The "presenceState" attribute within the PresenceInfo data type shall be supplied. The "additionalPraId" attribute within the PresenceInfo data type shall not be supplied. | PRA |
| ueInitResReq | UeInitiatedResourceRequest | O | 0..1 | Indicates a UE requests specific QoS handling for selected SDF. |  |
| refQosIndication | boolean | O | 0..1 | If it is included and set to true, the reflective QoS is supported by the UE. If it is included and set to false, the reflective QoS is revoked by the UE. |  |
| qosFlowUsage | QosFlowUsage | O | 0..1 | Indicates the required usage for default QoS flow. |  |
| creditManageStatus | CreditManagementStatus | O | 0..1 | Indicates the reason of the credit management session failure. |  |
| servNfId | ServingNfIdentity | O | 0..1 | Contains the serving network function identity. |  |
| traceReq | TraceData | C | 0..1 | It shall be included if trace is required to be activated, modified or deactivated (see 3GPP TS 32.422 [24]). For trace modification, it shall contain a complete replacement of trace data.  For trace deactivation, it shall contain the Null value. |  |
| addIpv6AddrPrefixes | Ipv6Prefix | O | 0..1 | An additional Ipv6 Address Prefix of the served UE. (NOTE 6) | MultiIpv6AddrPrefix |
| addRelIpv6AddrPrefixes | Ipv6Prefix | O | 0..1 | Indicates an additional released IPv6 Address Prefix of the served UE. (NOTE 6) | MultiIpv6AddrPrefix |
| multiIpv6Prefixes | array(Ipv6Prefix) | O | 1..N | The Ipv6 Address Prefixes of the served UE. (NOTE 6) | UnlimitedMultiIpv6Prefix |
| multiRelIpv6Prefixes | array(Ipv6Prefix) | O | 1..N | Indicates the released IPv6 Address Prefixes of the served UE. (NOTE 6) | UnlimitedMultiIpv6Prefix |
| tsnBridgeInfo | TsnBridgeInfo | O | 0..1 | Transports TSC user plane node information. | TimeSensitiveNetworking |
| tsnBridgeManCont | BridgeManagementContainer | O | 0..1 | Transports TSC user plane node management information. | TimeSensitiveNetworking |
| tsnPortManContDstt | PortManagementContainer | O | 0..1 | When DS-TT functionality is used, transports TSN port management information for the DS-TT port. | TimeSensitiveNetworking |
| tsnPortManContNwtts | array(PortManagementContainer) | O | 1..N | When NW-TT functionality is used, transports TSN port management information for one or more NW-TT ports. | TimeSensitiveNetworking |
| tscNotifUri | Uri | O | 0..1 | For PMIC/UMIC UPF event notification target address of the TSCTSF or TSN AF receiving the TSC management information. | ExposureToTSC |
| tscNotifCorreId | string | O | 0..1 | Correlation identifier for TSC management information notifications. | ExposureToTSC |
| maPduInd | MaPduIndication | O | 0..1 | Contains the MA PDU session indication, i.e., MA PDU Request or MA PDU Network-Upgrade Allowed. (NOTE 1) | ATSSS |
| atsssCapab | AtsssCapability | O | 0..1 | Contains the ATSSS capability supported for the MA PDU session. (NOTE 1) | ATSSS |
| mulAddrInfos | array(IpMulticastAddressInfo) | O | 1..N | Contains the IP multicast address information. | WWC |
| policyDecFailureReports | array(PolicyDecisionFailureCode) | O | 1..N | Indicates the type(s) of the failed policy decision and/or condition data. | PolicyDecisionErrorHandling |
| invalidPolicyDecs | array(InvalidParam) | O | 1..N | Indicates the invalid parameters for the reported type(s) of the failed policy decision and/or condition data. | ExtPolicyDecisionErrorHandling |
| trafficDescriptors | array(DddTrafficDescriptor) | O | 1..N | Contains the traffic descriptor(s) | DDNEventPolicyControl |
| typesOfNotif | array(DlDataDeliveryStatus) | O | 1..N | Contains the type of notification of DDD Status. | DDNEventPolicyControl |
| pccRuleId | string | O | 0..1 | Contains the identifier of the PCC rule which is used for traffic detection of event (e.g. DDN failure). | DDNEventPolicyControl2 |
| interGrpIds | array(GroupId) | O | 1..N | Internal Group Identifier(s) of the served UE. | GroupIdListChange |
| satBackhaulCategory | SatelliteBackhaulCategory | O | 0..1 | Indicates the satellite backhaul category or non-satellite backhaul used for the PDU session.  If the "EnSatBackhaulCatChg" feature is supported, the dynamic satellite backhaul categories may also be provided. | SatBackhaulCategoryChg |
| pcfUeInfo | PcfUeCallbackInfo | O | 0..1 | PCF for the UE callback URI and SBA binding information. | AMInfluence |
| nwdafDatas | array(NwdafData) | O | 1..N | List of NWDAF Instance IDs and their associated Analytics IDs consumed by the NF service consumer. | EneNA |
| anGwStatus | boolean | O | 1..N | When it is included and set to "true", it indicates that the AN-Gateway has failed and that the PCF should refrain from sending policy decisions to the SMF until it is informed that the AN-Gateway has been recovered. (NOTE 1) | SGWRest |
| uePolCont | UePolicyContainer | C | 0..1 | Indicates a UE policy container received from the UE. (NOTE 1) | EpsUrsp |
| urspEnfInfo | UrspEnforcementInfo | O | 0..1 | Contains the reporting of URSP rule enforcement form the UE. | URSPEnforcement |
| sscMode | SscMode | O | 0..1 | SSC Mode of the PDU session.  It may be present when the "urspEnfInfo" attribute is present. | URSPEnforcement |
| ueReqDnn | Dnn | O | 0..1 | UE requested DNN.  It may be present when the "urspEnfInfo" attribute is present. | URSPEnforcement |
| redundantPduSessionInfo | RedundantPduSessionInformation | O | 0..1 | RSN and PDU session pair ID of the redundant PDU session.  It may be present when the "urspEnfInfo" attribute is present. | URSPEnforcement |
| l4sReports | array(L4sSupportInfo) | O | 1..N | ECN marking for L4S support report information. | L4S |
| altSliceInfo | Snssai | O | 0..1 | Contains the Alternative S-NSSAI. | NetSliceRepl |
| batOffsetInfo | BatOffsetInfo | O | 0..1 | Contains the BAT offset and the optionally adjusted periodicity. | EnTSCAC |
| hrsboInd | boolean | O | 0..1 | HR-SBO support indication. If present and set to "true", it indicates that the HR-SBO is supported. If present and set to "false", it indicates that the HR-SBO is not supported. | HR-SBO |
| NOTE 1: This attribute is only applicable to the 5GS and EPC/E-UTRAN interworking scenario as defined in Annex B.  NOTE 2: The value provided in this attribute is implementation specific. The only constraint is that the NF service consumer shall supply a different identifier for each overlapping address domain (e.g. the SMF NF instance identifier).  NOTE 3: The age of UE location included within the "userLocationInfoTime" attribute is the age of the 3GPP access UE location received from the AMF and shall be included only when the reported "userLocationInfo" attribute includes the UE location in the 3GPP access.  NOTE 4: The SMF may encode both 3GPP and non-3GPP access UE location in the "userLocationInfo" attribute.  NOTE 5: Only one of "vplmnQos" or "vplmnQosNotApp" attributes may be present.  NOTE 6: When the "WWC" feature is supported, according to 3GPP TS 23.316 [42], clause 8.3.1 and 4.6.2, more than one IPv6 prefix shorter than /64 or more than one full IPv6 addres with a /128 prefix may be allocated to the RG. When feature MultiIpv6AddrPrefix is supported, additional IPv6 prefix shorter than /64 or full IPv6 address with a /128 prefix may be reported encoded as the "addIpv6AddrPrefixes" and the "addRelIpv6AddrPrefixes" attributes, , if the "MultiIpv6AddrPrefix" feature is supported, or as the "multiIpv6Prefixes" and the "multiRelIpv6Prefixes" attributes, if the "UnlimitedMultiIpv6Prefix" feature is supported. If the attribute "multiIpv6Prefixes" is provided, then attributes "ipv6AddressPrefix" and "addIpv6AddrPrefixes" shall be both absent. If the attribute "multiRelIpv6Prefixes" is provided, then attributes "relIpv6AddressPrefix" and "addRelIpv6AddrPrefixes" shall be both absent. | | | | | |

Editor’s Note: It is FFS how the bat offset is indicated and reported per PCC rule.

\* \* \* \* End of changes \* \* \* \*