**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **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:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | S5 |
|  |  |
| ***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:*** | Enable charging for AMF  |
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| ***Summary of change:*** | Include in section 5.1.1 references to the CAPIF Events which can trigger charging  |
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| ***Consequences if not approved:*** | CCF charging triggered through Auditing and API Provider Domain functions is not possible  |
|  |  |
| ***Clauses affected:*** | 5.1.1 |
|  |  |
|  | **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:*** |  |

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| **First change** |

### 5.1.1 Northbound API procedures

All procedures that operate across the T8 reference point, as specified in 3GPP TS 23.682 [243] and TS 29.122 [230], are covered, which are the following:

- Monitoring

- Resource management of Background Data Transfer

- Changing the chargeable party at session set up or during the session

- Non-IP Data Delivery

- Device Triggering

- Group Message Delivery

- Reporting of Network Status

- Communication Pattern Parameters Provisioning

- PFD Management

- Enhanced Coverage Restriction Control

- Network Parameter Configuration

- Setting up an AS session with required QoS

- MSISDN-less Mobile Originated SMS

- Request for Ranging and Sidelink Positioning service

The following clauses 5.2 and 5.3 describe the trigger conditions and simplified message flows for Event Based Charging (IEC/ECUR), with interfaces specified in 3GPP TS 32.299 [50].

The Northbound APIs supported by the NEF via the set of exposed services defined in 3GPP TS 23.502 [201] are covered for converged charging, with the trigger conditions and message flows defined in clause 5.4. All procedures are specified in TS 29.522 [231], which includes the following examples:

- Time synchronization exposure service

- IMS event exposure service

The Northbound APIs supported by the CAPIF via the set of exposed service APIs defined in 3GPP TS 23.222 [202] are covered, which are the following:

- Service activation: Onboarding the API invoker to the CAPIF, as specified in TS 23.222 [202], clause 8.1;

- Service in-activation: Offboarding the API invoker from the CAPIF, as specified in TS 23.222 [202], clause 8.2.

- Service API publish, as specified in the TS 23.222 [202] clause 8.3

- Service API unpublish, as specified in the TS 23.222 [202] clause 8.4

- Service API retrieve, as specified in the TS 23.222 [202] clause 8.5

- Service API update, as specified in the TS 23.222 [202] clause 8.6

- Discover service APIs, as specified in TS 23.222 [202] Clause 8.7.

- Subscription, un-subscription and notifications for the CAPIF events (e.g. API notification for the Monitoring service API invocation) as specified in the TS 23.222 [202] clause 8.8.

- Revoking subscription of the CAPIF events, as specified in the TS 23.222 [202] clause 8.9.

- Auditing Service API, as specified in TS 23.222 [202] Clause 8.22.

- API Provider domain functions registration, as specified in TS 23.222 [202] Clause 8.28.

- API Provider domain functions deregistration, as specified in TS 23.222 [202] Clause 8.30.

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| **End of changes** |