**3GPP TSG-SA5 Meeting #162 *S5-253774***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **32.254** | **CR** | **0078** | **rev** | **1** | **Current version:** | **19.1.0** |  |
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| *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:***  | Rel-19 CR 32.254 Correction to Northbound API procedures |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | TEI19 |  | ***Date:*** | 2025-08-28 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-19 |
|  | *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:*** | A description of NEF or CCF trigger conditions and simplified message flows for Event Based Charging is needed in the principle. A spelling error has been identified in clause 6.6.1.1 and requires correction. |
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| ***Summary of change:*** | 1. Add description of NEF or CCF trigger conditions and simplified message flows for Event Based Charging in the principle.
2. Editorial correction
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| ***Consequences if not approved:*** | The document structure is not aligned with the T8 reference point. Some spell error existed in the specification. |
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| ***Clauses affected:*** | 5.1.1, 6.6.1.1 |
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|  | **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 ...  |
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| ***Other comments:*** |  |
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| ***This CR's revision history:*** | This is revison of S5-253570 |

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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.

The following clause 5.4 describe the NEF or CCF trigger conditions and simplified message flows for Event Based Charging (IEC/PEC/ECUR), with interface specified in 3GPP TS 32.290 [57].

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| **Next Change** |

6.6.1.1 General

The Charging Data Request and Charging Data Response are specified in TS 32.290 [57] and include charging information. The Charging Data Request can be of type [Event, Initial, Termination].

Table 6.6.1.1.1 describes the use of these messages for converged charging.

**Table 6.6.1.1.1: Converged charging messages reference table**

|  |  |  |
| --- | --- | --- |
| **Message** | **Source** | **Destination** |
| Charging Data Request | CCF | CHF |
| Charging Data Response | CHF | CCF |

The following clauses describe the different fields used in the Charging Data messages and the category in the tables is used according to the charging data configuration defined in clause 5.4 of TS 32.240 [2].

The basic structure of a Charging Data Request/Response message from/to the CCF as used for CAPIF charging, can reuse the structure and information elements for NEF converged charging.

- The common information elements (e.g, tenant identifier holds the API invoker id) refers to the TS 32.290 [57].

- The CAPIF API charging information which hold the CAPIF Core Function specific information can mapped to the NEF API Charging information (e.g, including the API name, API contents) specified in clause 6.3.1.4.

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| **End of Change** |