**3GPP TSG CT WG3 Meeting #142 C3-253435**

**Goteborg, Sweden, 25 – 29 August, 2025 (Revision of C3-253xxx)**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **29.122** | **CR** | **0968** | **rev** | **-** | **Current version:** | **19.3.0** |  |
|  |
| *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:***  | Enhancements on the QoS monitoring capability for Available Bitrate |
|  |  |
| ***Source to WG:*** | Huawei, Nokia |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | XRM\_Ph2 |  | ***Date:*** | 2025-08-08 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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:*** | * The Editor’s Note needs to be resolved in clause 5.14.4. As the consumer can request the QoS monitoring capability report and the QoS monitoring parameter report using different events, there is no dependency between these two events.
* The applicable scope of "EnQoSMon\_v2" feature is missing in Table 5.14.4-1.
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| ***Summary of change:*** | * Remove the feature dependency between QoS monitoring capability report and the QoS monitoring parameter report.
* Remove the Editor’s Note listed above.
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| ***Consequences if not approved:*** | Open issue in the specification. |
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| ***Clauses affected:*** | 5.14.4 |
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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:*** | This CR does not impact any OpenAPI. |
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| ***This CR's revision history:*** |  |

\*\*\* 1st Change \*\*\*

### 5.14.4 Used Features

The table below defines the features applicable to the AsSessionWithQoS API. Those features are negotiated as described in subclause 5.2.7.

**Table 5.14.4-1: Features used by AsSessionWithQoS API**

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| --- | --- | --- |
| **Feature Number** | **Feature** | **Description** |
| 1 | Notification\_websocket | The delivery of notifications over Websocket is supported according to clause 5.2.5.4. This feature requires that the Notification\_test\_event featute is also supported. |
| 2 | Notification\_test\_event | The testing of notifications connections is supported according to clause 5.2.5.3. |
| 3 | EthAsSessionQoS\_5G | Setting up required QoS for Ethernet UE. This feature may only be supported in 5G. |
| 4 | MacAddressRange\_5G | Indicates the support of a set of MAC addresses with a specific range in the traffic filter. This feature may only be supported in 5G. |
| 5 | AlternativeQoS\_5G | Indicates the support of alternative QoS requirements and the QoS notification (i.e. whether the QoS targets for SDF(s) are not guaranteed or guaranteed again). This feature may only be supported in 5G. |
| 6 | QoSMonitoring\_5G | Indicates the support of QoS Monitoring functionality and the report for packet delay monitoring. This feature may only be supported in 5G. |
| 7 | DisableUENotification\_5G | Indicates the support of disabling QoS flow parameters signalling to the UE when the SMF is notified by the NG-RAN of changes in the fulfilled QoS situation. This feature may only be supported in 5G. This feature requires that the AlternativeQoS\_5G feature is also supported. |
| 8 | TSC\_5G | Indicates the support of Time Sensitive Communication. This feature may only be supported in 5G. |
| 9 | AppId | Indicates the support of dynamically providing the Application Identifier via the API. |
| 10 | ExposureToEAS | This feature indicates the support of direct notification in 5GC. This feature requires that the QoSMonitoring\_5G feature is also supported. |
| 11 | enNB | Indicates the support of enhancements to the northbound interfaces. |
| 12 | AltQosWithIndParams\_5G | This feature indicates the support of provisioning Alternative Service Requirements with individual QoS parameters. This feature requires that the AlternativeQoS\_5G feature is also supported. |
| 13 | EnEthAsSessionQoS\_5G | Indicates the support of required QoS for Ethernet UE, allowing to indicate separately different UL and/or DL Ethernet flows. This feature may only be supported in 5G. |
| 14 | enNB\_5G | Indicates the support of enhancements to the northbound interfaces and only applicable to 5G. |
| 15 | PacketDelayFailureReport | Indicates the support of packet delay failure report as part of QoS Monitoring procedures. This feature requires that QoSMonitoring\_5G is supported. This feature may only be supported in 5G. |
| 16 | ToSTC\_5G | Indicates the support of Type of Service or Traffic Class. This feature may only be supported in 5G. |
| 17 | EnTSCAC | Indicates the support of extensions to TSCAC and the RAN feedback for BAT offset and adjusted periodicity.This feature may only be supported in 5G, and requires that the TSC\_5G feature is also supported. |
| 18 | AltQoSProfilesSupportReport | This feature indicates the support of the report of whether Alternative QoS parameters are supported by the access network. This feature requires that AlternativeQoS\_5G and/or AltQosWithIndParams\_5G features are also supported. |
| 19 | ExtQoS\_5G | This feature indicates the support of extended QoS parameters. This feature may only be supported in 5G. |
| 20 | MultiMedia | Indicates the support for multi-modal or multimedia flows for single UE and multiple UE. This feature may only be supported in 5G. This feature may be used in eXtend Reality (XR) use cases. |
| 21 | ExtErrors | Indicates the support of additional application errors related to authorization or PDU Session availability. |
| 22 | QoSTiming\_5G | This feature indicates the support of QoS timing information for the transfer and support of data transmission (e.g., AI/ML transmission). This feature may only be supported in 5G. |
| 23 | ListUE\_5G | Indicates the support for the list of UEs This feature may only be supported in 5G. |
| 24 | GMEC | This feature indicates the support of Generic Group Management Exposure and Communication related enhancements.The following functionalities are supported:- Support AF requested QoS for a UE or group of UE(s) not identified by the UE address(es).This feature may only be supported in 5G.This feature requires the support of the "QoSMonitoring\_5G" and "AltQosWithIndParams\_5G" features. |
| 25 | PDUSetHandling | This feature indicates the support of PDU Set handling. This feature may be used for eXtended Reality (XR) and interactive media services.This feature may only be supported in 5G. |
| 26 | RTLatency | This feature indicates the support of Round-Trip latency. This feature may be used for eXtended Reality (XR) and interactive media services.This feature may only be supported in 5G. |
| 27 | EnQoSMon | This feature indicates the support of enhanced QoS monitoring functionality, i.e. the enhancement of packet delay QoS monitoring, and/or, the report of the congestion information, and/or, the RTT delay over two QoS flows, and/or, the data rate information, and/or, the Packet Delay Variation monitoring.This feature requires that QoSMonitoring\_5G is supported.In order to support the report of packet delay measurement failure, the PacketDelayFailureReport feature also requires to be supported.This feature may only be supported in 5G. |
| 28 | PowerSaving | This feature indicates the support of the Power Saving for different traffic measurement**.**This feature may only be supported in 5G. |
| 29 | L4S | This feature indicates the support of the AF indication of ECN marking for L4S support.This feature may only be supported in 5G. |
| 30 | QoSMonCapRepo | This feature indicates the support QoS Monitoring Capability Report for packet delay, available bit rate and/or congestion. This feature may only be supported in 5G. |
| 31 | TrafficCharChange | This feature indicates the support of dynamically changing traffic characteristics, including:- the handling of Data Burst Size Marking Indication.- the handling of Time to Next Burst Indication.- the handling of Expedite Data Transfer with reflective QoS Indication for the Non-GBR flows.This feature may only be supported in 5G. |
| 32 | MpxMedia | This feature indicates the support of uniquely identifying each media flow of multiplexed media with the provided Multiplexed Media Identification Information.This feature may only be supported in 5G. |
| 33 | OnPathN6MediaInfo | This feature indicates the support of deliver media related information for encrypted traffic, including:- Using on-path N6 signaling information to deliver media related information for encrypted traffic.This feature may only be supported in 5G. |
| 34 | RateLimitReport | This feature indicates the support of AF request the 5GS to expose the data rate limitation information.This feature may only be supported in 5G. |
| 35 | AcceptableQosDetails | This feature indicates the support of providing detailed information about the QoS that can be authorized in error responses of not authorized requests.This feature may only be supported in 5G. |
| 36 | ExtQoS\_v2 | This feature indicates the enhancements on the support for the extensions to the QoS mechanisms, including:- the support of PDU Set QoS parameters in Alternative QoS Profile when the PDUSetHandling feature is supported.- the support of Averaging Window and Maximum Data Burst Volume parameters.This feature requires that AltQosWithIndParams\_5G feature is also supported.This feature may only be supported in 5G. |
| 37 | EnQoSMon\_v2 | This feature indicates the enhancements on the QoS monitoring functionality, including:- the reporting of available bitrate rate for a GBR QoS Flow.This feature requires that the EnQoSMon feature is supported.This feature may only be supported in 5G. |
| Feature: A short name that can be used to refer to the bit and to the feature, e.g. "Notification".Description: A clear textual description of the feature. |

\*\*\* End of Changes \*\*\*