**3GPP TSG-CT WG3 Meeting #135 *C3-243354***

**Hyderabad, IN, 27 - 31 May, 2024**

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| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **29.514** | **CR** | **0641** | **rev** | **-** | **Current version:** | **18.5.0** |  |
|  |
| *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** |

|  |
| --- |
|  |
| ***Title:***  | Data Rate and congestion report |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | XRM |  | ***Date:*** | 2024-04-29 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *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)* |
|  |  |
| ***Reason for change:*** | Data rate and congestion reports units and detailed descriptions are not aligned with TS 29.564. |
|  |  |
| ***Summary of change:*** | Clause 5.6.2.37 is updated to specify data rate and congestion units according to TS 29.564.. |
|  |  |
| ***Consequences if not approved:*** | Inconsistent definitions may bring interoperability issues. |
|  |  |
| ***Clauses affected:*** | 2, 5.6.2.37 |
|  |  |
|  | **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 does not have any impact in the Npcf\_PolicyAuthorization API. |
|  |  |
| ***This CR's revision history:*** |  |

\* \* \* First Change \* \* \* \*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[4] 3GPP TS 23.503: "Policy and Charging Control Framework for the 5G System; Stage 2".

[5] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[6] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[7] 3GPP TS 29.513: "5G System; Policy and Charging Control signalling flows and QoS parameter mapping; Stage 3".

[8] 3GPP TS 29.512: "5G System; Session Management Policy Control Service; Stage 3".

[9] IETF RFC 9113: "HTTP/2".

[10] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[11] OpenAPI: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>..

[12] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces; Stage 3".

[13] 3GPP TS 29.508: "5G System; Session Management Event Exposure Service; Stage 3".

[14] 3GPP TS 29.554: "5G System; Background Data Transfer Policy Control Service; Stage 3".

[15] 3GPP TS 29.122: "T8 reference point for Northbound APIs".

[16] IEEE 802.3-2015: "IEEE Standard for Ethernet".

[17] IEEE 802.1Q-2014: "Bridges and Bridged Networks".

[18] IETF RFC 7042: "IANA Considerations and IETF Protocol and Documentation Usage for IEEE 802 Parameters".

[19] IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".

[20] 3GPP TS 29.214: "Policy and Charging Control over Rx reference point".

[21] IETF RFC 7396: "JSON Merge Patch".

[22] 3GPP TS 32.291: "5G System; Charging service; Stage 3".

[23] 3GPP TS 22.153: "5G System; "Multimedia Priority Service".

[24] IETF RFC 9457: "Problem Details for HTTP APIs".

[25] 3GPP TS 33.501: "Security architecture and procedures for 5G system".

[26] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".

[27] 3GPP TS 29.510: "5G System; Network Function Repository Services; Stage 3".

[28] 3GPP TR 21.900: "Technical Specification Group working methods".

[29] 3GPP TS 24.292: "IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS); Stage 3".

[30] 3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction".

[31] IETF RFC 5761: "Multiplexing RTP Data and Control Packets on a Single Port".

[32] 3GPP TS 24.229: "IP Multimedia Call Control Protocol based on SIP and SDP; Stage 3".

[33] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".

[34] IETF RFC 5031: "A Uniform Resource Name (URN) for Emergency and Other Well-Known Services".

[35] IETF RFC 5009: "Private Header (P-Header) Extension to the Session Initiation Protocol (SIP) for Authorization of Early Media".

[36] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".

[37] IETF RFC 3556: "Session Description Protocol (SDP) Bandwidth Modifiers for RTP Control Protocol (RTCP) Bandwidth".

[38] IETF RFC 3959 (December 2004): "The Early Session Disposition Type for the Session Initiation Protocol (SIP)".

[39] 3GPP TS 23.380: "IMS Restoration Procedures".

[40] 3GPP TS 23.167: "IP Multimedia Subsystem (IMS) emergency sessions".

[41] 3GPP TS 24.379: "Mission Critical Push To Talk (MCPTT) call control; Protocol specification".

[42] IETF RFC 8101: "IANA Registration of New Session Initiation Protocol (SIP), Resource-Priority Namespace for Mission Critical Push To Talk Service".

[43] 3GPP TS 24.281: "Mission Critical Video (MCVideo) signalling control; Protocol specification".

[44] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G System (5GS)".

[45] 3GPP TS 22.179: "Mission Critical Push to Talk (MCPTT) over LTE; Stage 1".

[46] 3GPP TS 22.280: "Mission Critical (MC) services common requirements".

[47] 3GPP TS 22.281: "Mission Critical (MC) video over LTE".

[48] 3GPP TS 22.282: "Mission Critical (MC) data over LTE".

[49] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

[50] IETF RFC 4574: "The Session Description Protocol (SDP) Label Attribute".

[51] 3GPP TS 26.238: "Uplink Streaming".

[52] IETF RFC 6733: "Diameter Base Protocol".

[53] 3GPP TS 29.519: "5G System; Usage of the Unified Data Repository service for Policy Control Data, Application Data and Structured Data for Exposure; Stage 3".

[54] 3GPP TS 29.522: "5G System; Network Exposure Function Northbound APIs; Stage 3".

[55] Void.

[56] IETF RFC 8655: "Deterministic Networking Architecture".

[57] 3GPP TS 29.502: "5G System; Session Management Services; Stage 3".

[58] 3GPP TS 29.564: "5G System; User Plane Function Services; Stage 3".

\* \* \* Second Change \* \* \* \*

#### 5.6.2.37 Type QosMonitoringReport

Table 5.6.2.37-1: Definition of type QosMonitoringReport

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| flows | array(Flows) | C | 1..N | Identification of the flows. It shall be included if "MediaComponentVersioning" feature is supported. When "MediaComponentVersioning" feature is not supported, if no flows are provided, the packet delay applies for all flows within the AF session. |  |
| ulDelays | array(integer) | O | 1..N | Uplink packet delay in units of milliseconds. (NOTE 1) |  |
| dlDelays | array(integer) | O | 1..N | Downlink packet delay in units of milliseconds. (NOTE 1) |  |
| rtDelays | array(integer) | O | 1..N | Round trip delay in units of milliseconds. (NOTE 1)If the "EnQoSMon" feature is supported and the "RT\_DELAY\_TWO\_QOS\_FLOWS" event is subscribed, it indicates the round trip delay of multiple QoS flows. |  |
| pdmf | boolean | O | 0..1 | Packet delay measurement failure indicator. When set to true, it indicates that a packet delay failure has occurred.Default value is false if omitted. (NOTE 2) | PacketDelayFailureReportEnQoSMon |
| ulDataRate | BitRate | O | 0..1 | Average data throughput in uplink direction as specified in clause 6.1.6.2.4 of 3GPP TS 29.564 [58].(NOTE 3) | EnQoSMon |
| dlDataRate | BitRate | O | 0..1 | Average data throughput in uplink direction as specified in clause 6.1.6.2.4 of 3GPP TS 29.564 [58].(NOTE 3) | EnQoSMon |
| ulConInfo | Uinteger | O | 0..1 | Percentage of congestion information in uplink direction as specified in clause 6.1.6.2.4 of 3GPP TS 29.564 [58].It may be present when the event "QOS\_MONITORING" is subscribed. | EnQoSMon |
| dlConInfo | Uinteger | O | 0..1 | Percentage of congestion information in downlink direction as specified in clause 6.1.6.2.4 of 3GPP TS 29.564 [58]. It may be present when the event "QOS\_MONITORING" is subscribed. | EnQoSMon |
| NOTE 1: In this release of the specification one element may be included in the array, as specified in clause 4.2.5.14.NOTE 2: When the "pdmf" attribute is set to true, "ulDelays", "dlDelays" and "rtDelays" shall not be present.NOTE 3: When the "ulDataRate" and/or the "dlDataRate" attribute are included, the "pdmf", "ulDelays", "dlDelays" and "rtDelays" shall not be present. |

Editor’s note: Whether a maximum and minimum data rate measurements calculated during the waiting time interval are the applicable is FFS.

\* \* \* End Change \* \* \* \*