**3GPP TSG SA WG4 Meeting #129-eS4-241678**

**Electronic Meeting, August 19 2024- August 23 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **PSEUDO CHANGE REQUEST** | | | | | | | | |
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|  | **TR 26.804** | **CR** | **CR0013** | **rev** | **-** | **Current version:** | **18.1.0** |  |
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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 |  |

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| ***Title:*** | [FS\_AMD] Key issue description on dynamic policy with multi-access media delivery | | | | | | | | | |
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| ***Source to WG:*** | Samsung Electronics Co. Ltd., | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_AMD | | | | |  | ***Date:*** | | | 2024-08-20 |
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| ***Category:*** | **B** |  | | | | | ***Release:*** | | | 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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | S4-241616 was discussed during SA4#129-e meeting, and a decision was made in MBS to add contents of this contribution to S4-241252 (CR 0013 against TR 26.804) an endorsed TR with initial draft on multi-access media delivery. | | | | | | | | |
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| ***Summary of change:*** | | Add a key issue description and study objectives for studying multi-access media delivery impacts on existing 5G media streaming dynamic policy support | | | | | | | | |
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| ***Consequences if not approved:*** | | One of the study topics will be incomplete | | | | | | | | |
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| ***Clauses affected:*** | | 5.15.1.2A (new), 5.15.1.4 | | | | | | | | |
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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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

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| CHANGE 1 (NEW) |

#### 5.15.1.2A Dynamic Policies in 5G Media Streaming

TS 26.501 [26501] and TS 26.510 [26510] specify the stage-2 procedures and stage-3 data model definitions for the Dynamic Policy feature in 5G Media Streaming. Specified as part of a high-level procedure for service provisioning in clause 5.3.2 of TS 26.501 [26501], when the dynamic policy feature is offered and selected, the 5GMSd Application Provider specifies a set of policies which can be invoked for the media streaming session. The data model for the PolicyTemplate resource in specified in clause 8.7.3 of TS 26.510 [26510]. The Media Session Handler becomes aware of the selected policies in the form of a list of valid Policy Template Ids listed in the Service Access Information it obtains from the 5GMS AF at reference point M5 or by private means via reference point M8.

When the Media Session Handler intends to activate a Dynamic Policy for a media streaming session, the Media Session Handler sends a Dynamic Policy API request to the 5GMS AF. As specified in clause 5.7.3 of TS 26.501 [26501], the request includes at least the Provisioning Session identifier, the Service Data Flow Description(s) of the relevant application flow(s) and the Policy Template identifier to be applied to the described application flow(s). The details of the Dynamic Policy API are specified in clause 9.3 of TS 26.510 [26510], and the data model for the DynamicPolicy resource is specified in clause 9.3.3 of TS 26.510 [26510].

The applicationFlowBindings property in the DynamicPolicy data model specifies the bindings between application flows at reference point M4 managed within the scope of the Dynamic Policy Instance and their network QoS requirements. The ApplicationFlowBinding object referenced by this property includes three sub-properties that allow for specification of the application flows to which the dynamic policy QoS specification is to be applied:

- componentIdentifier that references a particular service component in the Policy Template

- applicationFlowDescription which provides a specification of an application flow to be used by the 5G Core for application traffic identification purposes.

- qosSpefication that provides network QoS requirements for the application flow(s) described by applicationFlowDescription.

The ApplicationFlowDescription type referenced by the applicationFlowDescription property is specified in clause 7.3.3.2 of TS 26.510 [26510] and includes the following sub-properties:

* filterMethod of type SdfMethod (specified in clause 7.3.4.2 of TS 26.510 [26510]) provides details about how to identify packets belonging to this application flow.
* packetFilter of type IPPacketFilterSet (specified in clause 7.3.3.1 of TS 26.510 [26510]) provides the details about the application flow in terms of packet header values.
* domainName describes the application flow in terms of the FQDN of a Media AS.
* mediaType describes the type of media carried by this application flow.
* mediaTransportParameters of type ProtocolDescription (specified in clause 5.5.4.13 of TS 29.571 [29571]) describes the set of media transport protocol parameters to be used by the 5G Core for the purpose of PDU Set identification and/or end of data burst detection on this application flow.

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| CHANGE 2 |

#### 5.15.1.4 Key Issue objectives

When the UE and the network agree to use a Multi-Access PDU Session (as described in clause 5.15.1.2.1 of the present document) for a 5G Media Streaming session, it is not clear how the Dynamic Policy feature specified in TS 26.501 [26501] and TS 26.510 [26510] is activated and implemented for application flows over multiple access networks.

Specifically, the following issues need to be studied:

- If M4 application flows are carried over two access networks, what does "activate dynamic policy with QoS requirements" mean – whether the requested network QoS is applicable to one, or more, or all access paths.

- Is it feasible to request QoS for a subset of access paths over specific access networks?

- Are any enhancements to the ApplicationFlowDescription type described in TS 26510 [26510] needed to support identification of M4 application flows over multiple access networks?

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| END OF CHANGES |