**3GPP TSG-CT WG1 Meeting #146C1-240196**

**Online, 22– 26 January 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.538** | **CR** | **0111** | **rev** | **-** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)*** *on using this form: comprehensive instructions can be found at  <http://www.3gpp.org/Change-Requests>.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network | **x** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | MSGin5G Gateway UE Configuration structure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | CT1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMARCH\_Ph2 | | | | |  | ***Date:*** | | | 2024-01-05 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The configuration procedure at the MSGin5G Gateway UE has been defined in 6.2.3.3. However, the schema has not been defined. Thus, it is proposed to define the schema for MSGin5G Gateway UE configuration procedure. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The schema of registration response from MSGin5G Gateway Client is add. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The missing schema may cause implementation error. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.3.2.x(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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

7.3.2.x MSGin5G Gateway UE Configuration structure

The schema is based on JSON Schema Draft-07 [8]. For reducing the overhead of the message used in MSGin5G service, the properties are defined as shorten form and the relationship between the properties and IEs used in clause 6.2.3.3.1 are described in the description of the properties, The JSON schema of CoAP 2.05 notification for the configuration request from Constrained UE is defined below:

{

"$schema": "http://json-schema.org/draft-07/schema#",

"$id": "http://www.3gpp.org/MSGin5G/MSGin5G Gateway\_UE\_Bulk\_Configuration\_notification\_schema",

"title": "MSGin5G Gateway UE Bulk Configuration notification",

"type": "object",

"properties": {

"maxConfTime": {

"type": "integer",

"description": "Refer to the maximum wait time for the bulk configuration request to be sent to the MSGin5G Server"

}

},

"required": [

"maxConfTime"

]

}

The schema is based on JSON Schema Draft-07 [8]. For reducing the overhead of the message used in MSGin5G service, the properties are defined as shorten form and the relationship between the properties and IEs used in clause 6.2.3.3.2 are described in the description of the properties, The JSON schema of the bulk configuration request to MSGin5G Server is defined below:

{

"$schema": "http://json-schema.org/draft-07/schema#",

"$id": "http://www.3gpp.org/MSGin5G/MSGin5G Gateway\_UE\_Bulk\_Configuration\_request\_schema",

"title": "MSGin5G Gateway UE Bulk Configuration request",

"type": "object",

"properties": {

"listUeId": {

"type": "array",

"description": "Refer to list of MSGin5G UE ID of Constrain UE",

"items": {

"$ref": "#/$defs/UeId"

},

"bulkConFlag": {

"type": "string",

"description": "Refer to indicates this request is used for MSGin5G UE bulk configuration"

},

"addInfos": {

"type": "array",

"description": "Refer to other related informations",

"items": {

"$ref": "#/$defs/AddInfo"

}

}

},

"required": ["listUeId", "bulkConFlag"],

"$defs": {

"AddInfo": {

"type": "object",

"properties": {

"name": {

"type": "string"

},

"value": {

"type": "string"

}

},

"required": ["name", "value"]

},

"UeId": {

"type": "object",

"properties": {

"MSGin5GUeid": {

"type": "string"

}

},

"required": ["MSGin5GUeid"]

}

}

}

}

The schema is based on JSON Schema Draft-07 [8]. For reducing the overhead of the message used in MSGin5G service, the properties are defined as shorten form and the relationship between the properties and IEs used in clause 6.2.3.3.3 are described in the description of the properties, The JSON schema of CoAP 2.05 response for the configuration request from MSGin5G Server is defined below:

{

"$schema": "http://json-schema.org/draft-07/schema#",

"$id": "http://www.3gpp.org/MSGin5G/MSGin5G Gateway\_UE\_Bulk\_Configuration\_response\_schema",

"title": "MSGin5G Gateway UE Bulk Configuration response",

"type": "object",

"properties": {

"listConInfo": {

"type": "array",

"description": "Refer to each element of the list is used to complete the configuration of the constrained UEs",

"items": {

"$ref": "#/$defs/ConfInfo"

}

},

"required": ["listConInfo"],

"$defs": {

"ConfInfo": {

"type": "object",

"properties": {

"ServiceId": {

"type": "string"

},

"serverAddr": {

"type": "string"

},

"specInfo": {

"type": "array",

"items": {

"$ref": "#/$defs/AddInfo"

}

}

},

"required": ["ServiceId", "serverAddr"]

},

"AddInfo": {

"type": "object",

"properties": {

"name": {

"type": "string"

},

"value": {

"type": "string"

}

},

"required": ["name", "value"]

}

}

}

}

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