**3GPP TSG-CT WG4 Meeting #101eC4-205510**

**E-Meeting, 3rd – 13th November 2020**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.562** | **CR** | **0040** | **rev** | **-** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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:*** | Authorization Response | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eIMS5G\_SBA | | | | |  | ***Date:*** | | | 2020-11-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The AuthorizationResponse shall contain either the registered S-CSCF or S-CSCF Selection Assistance Information. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add S-CSCF Selection Assistance Information to Authorization Response | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | S-CSCF Selection Assistance Information is not available to the I-CSCF when needed after authorization. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.1.6.1, 6.1.6.2.3, A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 introduces backwards compatible corrections to the Nhss\_imsUECM API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

#### 6.1.6.1 General

This clause specifies the application data model supported by the API.

Table 6.1.6.1-1 specifies the data types defined for the Nhss\_imsUECM service-based interface protocol.

Table 6.1.6.1-1: Nhss\_imsUECM specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| AuthorizationRequest | 6.1.6.2.2 | Information for the type of authorization requested and the visited PLMN-ID |  |
| AuthorizationResponse | 6.1.6.2.3 | Result of the authorization requested for registration. |  |
| ScscfRestorationInfo | 6.1.6.2.4 | Information required for an S-CSCF to handle the requests for a user. |  |
| ScscfRestorationInfoRequest | 6.1.6.2.5 | Scscf restoration information request. |  |
| ScscfRestorationInfoResponse | 6.1.6.2.6 | Result of the scscf restoration information request. |  |
| RestorationInfo | 6.1.6.2.7 | Information related to a specific registration required for an S-CSCF to handle the requests for a user. |  |
| UeSubscriptionInfo | 6.1.6.2.8 | UE's subscription information. |  |
| PcscfSubscriptionInfo | 6.1.6.2.9 | P-CSCF's subscription information. |  |
| ScscfRegistration | 6.1.6.2.10 | Registration information of the S-CSCF for the registered UE. |  |
| ExtendedProblemDetails | 6.1.6.2.11 |  |  |
| AdditionalInfo | 6.1.6.2.12 |  |  |
| DeregistrationData | 6.1.6.2.13 |  |  |
| DeregistrationReason | 6.1.6.2.14 |  |  |
| EmergencyRegisteredIdentity | 6.1.6.2.15 |  |  |

Table 6.1.6.1-2 specifies data types re-used by the Nhss\_imsUECM service-based interface protocol from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Nhss\_imsUECM service-based interface.

Table 6.1.6.1-2: Nhss\_imsUECM re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Uri | 3GPP TS 29.571 [16] | Uniform Resource Identifier |  |
| SupportedFeatures | 3GPP TS 29.571 [16] | see 3GPP TS 29.500 [4] clause 6.6 |  |
| DateTime | 3GPP TS 29.571 [16] | String with format "date-time" as defined in OpenAPI Specification [9] |  |
| ScscfSelectionAssistanceInformation | 6.2.6.2.xx | This information shall be used by the I-CSCF to select an S-CSCF for the UE |  |

\* \* \* Next Change \* \* \* \*

##### 6.1.6.2.3 Type: AuthorizationResponse

Table 6.1.6.2.3-1: Definition of type AuthorizationResponse

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| authorizationResult | AuthorizationResult | M | 1 | Contains the details of the granted authorization. |  |
| cscfServerName | string | C | 0..1 | Contains the stored S-CSCF name in SIP URI format. It shall be present if there is a S-CSCF name stored for the associated IMS subscription. |  |
| scscfSelectionAssistanceInfo | ScscfSelectionAssistanceInformation | C | 0..1 | Contains information needed by the I-CSCF to select an S-CSCF for the UE. Shall be present if cscfServerName is absent. |  |

\* \* \* Next Change \* \* \* \*

## A.2 Nhss\_imsUECM API

openapi: 3.0.0

\*\*\*\*\*\*\*\*\*\*\*text not shown for clarity\*\*\*\*\*\*\*\*\*\*\*\*

AuthorizationResponse:

description: Ims Registration authorization information result

type: object

properties:

authorizationResult:

$ref: '#/components/schemas/AuthorizationResult'

cscfServerName:

type: string

scscfSelectionAssistanceInfo:

$ref: 'TS29562\_Nhss\_imsSDM.yaml#/components/schemas/ScscfSelectionAssistanceInformation'

oneOf:

- required:

- cscfServerName

- required:

- scscfSelectionAssistanceInformation

\*\*\*\*\*\*\*\*\*\*\*text not shown for clarity\*\*\*\*\*\*\*\*\*\*\*\*

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