**3GPP TSG-CT WG4 Meeting #98eC4-203xxx**

**E-Meeting, 2nd – 12th June 2020**  *Revision of 3008*

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.501** | **CR** | **CR0078** | **rev** | **1** | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *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:*** | URI types | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SBIProtoc16 | | | | |  | ***Date:*** | | | 2020-05-01 |
|  |  | | | |  | |  | | |  |
| ***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 spec makes use different URI type names, like Absolute URI, Base URI etc., but these are not always properly explained. Another issue is that although these notions are explained in RFC 3986, the spec does not offer a formal defining of these. For instance, an Absolute URI is explained in the Abstract of the RFC in the following way: "Some protocol elements allow only the absolute form of a URI without a fragment identifier. For example, defining a base URI for later use by relative references calls for an absolute-URI syntax rule that does not allow a fragment". This does not look like a proper definition of the notion. | | | | | | | | |
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| ***Summary of change:*** | | Definitions of Absolute URI, API Prefix, API Root URI, API URI, Base URI, Callback URI, Relative URI and Resource URI are added to clause 3.1. | | | | | | | | |
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| ***Consequences if not approved:*** | | Undefined notions are used in the TS. | | | | | | | | |
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| ***Clauses affected:*** | | 3.1. | | | | | | | | |
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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:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev1:   * WIC changed to SBIProtoc16 and cover sheet is fixed otherwise. * "API Root URI" string is not used in the spec and therefore is replaced by "apiRoot". * In the API URI definition, reference to TS 29.502 was replaced by a reference to clause 4.4.1 of this spec. * API Prefix definition was updated | | | | | | | | |

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

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**Absolute URI:** Absolute URI follows generic URI syntax and consists of a hierarchical sequence of the following components: the "scheme", "authority", "path" and "query", i.e. excluding the "fragment" component. See clause 4.3 in IETF RFC 3986 [9].

**apiRoot**: apiRoot follows an absolute URI syntax, but excludes the following absolute URI identifiers: the "path", "query" and "fragment" components. Therefore, the API root URI contains the "scheme" and also the "authority" components, which may contain an API prefix subcomponent.

**API Prefix:** API prefix is an optional, deployment-specific string, which is a subcomponent of the "apiRoot/authority" component. API prefix format follows "path-absolute" syntax and that starts with a "/" reserved character (see clause 3.3 in IETF RFC 3986 [9]).

**API URI:** API URI has the following format: {apiRoot}/<apiName>/<apiVersion>. For more details see clause 4.4.1.

**Base URI:** Base URI is used as a reference against which the relative URI reference is applied. See clause 4.6.1.1.1.2 and also clause 5.1 in IETF RFC 3986 [9].

**Callback URI:** Callback URI follows an absolute URI syntax, but excludes the following absolute URI identifiers: "userinfo" subcomponent of the "authority" component and also the "query" component ("fragment" component is already excluded from the absolute URI). Therefore, callback URI contains the "scheme", "authority" (excluding "userinfo" subcomponent) and the "path" components. See clause 4.4.3.

**Relative URI**: Relative URI is a part of a URI to be used on top of a base URI, i.e. the base URI is a reference against which the relative URI is used. See clause 1.2.3 in IETF RFC 3986 [9].

**Resource URI:** Resource URI identifies an abstract or a physical resource. See the Abstract of the IETF RFC 3986 [9]. In this specification this generally means "an URI of a resource".

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