**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
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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 | **X** | Core Network | **X** |

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| ***Title:*** |  | | | | | | | | | |
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| ***Source to WG:*** | , Deutsche Telekom | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
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| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | The concept of intent negotiation functionalities is documented in TR 28.904 and recommended for normative work. It proposes to add concept of intent negotiation functionalities in TS 28.312. | | | | | | | | |
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| ***Summary of change:*** | | Add concept of intent negotiation functionalities in TS 28.312 based on clause 4.1 in TR 28.914. | | | | | | | | |
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| ***Consequences if not approved:*** | |  | | | | | | | | |
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| ***Clauses affected:*** | | 4.X (new) | | | | | | | | |
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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:*** | | S5-247174 is the revision of S5-246368 | | | | | | | | |

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| **1st Change** |

## 4.X Intent negotiation functionalities

### 4.X.1 Overview

An important aspect of intent-driven systems is the support of automation of interactions between the intent-driven MnS consumer and intent driven MnS producer. Introducing intent negotiation functionalities will be beneficial for the MnS producer and the MnS consumer to engage in a collaborative way. The intent negotiation can occur in the following two phases:

- Intent pre-evaluation, before the MnS consumer expresses the intent expectation to be fulfilled.

- Intent fulfilment, after the MnS consumer had expressed the intent expectation to be fulfilled.

### 4.X.2 Intent negotiation functionalities in Intent pre-evaluation phase

The intent negotiation functionalities for Intent pre-evaluation can be used to assist the MnS consumer to generate suitable intent information for the MnS producer. The network (including NEs) will not be changed during the intent pre-evaluation phase. The Intent negotiation functionalities in the intent pre-evaluation phase includes:

- Intent Feasibility check. The management capability to enable the MnS consumer to check if the proposed intent can be supported by the MnS producer.

- Intent Exploration. The management capability to enable the MnS consumer and the MnS producer to find the intent for fulfilment that is best aligned with MnS producer's capabilities.

### 4.X.3 Intent negotiation functionalities in Intent fulfilment phase

The intent negotiation functionalities for intent fulfilment can be used to enable the MnS producer and the MnS consumer to agree on the best way to fulfil an intent. The Intent negotiation functionalities in the intent fulfilment phase includes

- Checking for fulfillable outcomes. The management capability to enable the MnS consumer to obtain the fulfillable outcomes.

- Checking for best possible outcome. The management capability to enable the MnS consumer to obtain the best outcome.

- Recommending fulfillable outcomes. The management capability to enable the MnS producer to provide the recommended intent targets and contexts which are realizable.

- Advising on preferred outcome. The management capability to enable MnS consumer to advise on their (the MnS consumer's) preference among multiple outcomes.

Editor’s Note: the definition for outcomes needs to be further clarified.

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| **End of Changes** |