**3GPP TSG-CT WG1 Meeting #125-eC1-20xxxx**

**Electronic meeting, 20-28 August 2020 Revision of C1-204721**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **2451** | **rev** | **-** | **Current version:** | **16.5.0** |  |
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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 | **X** | Radio Access Network |  | Core Network | **x** |

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| ***Title:***  | The error handling on grouped type optional IE |
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| ***Source to WG:*** | China Mobile |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5GProtoc17 |  | ***Date:*** | 2020-08-11 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *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 canbe 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)Rel-17 (Release 17)* |
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| ***Reason for change:*** | It is specified in TS 24.007 that “An IE is defined to be syntactically incorrect in a message if it contains at least one value defined as "reserved"”.And according to TS 24.501 subclause 7.7.1:1. The UE shall treat all optional IEs that are syntactically incorrect in a message as not present in the message.
2. The network shall take the same approach.

Consider that:1. In TS 24.501, the value parts of some optional IEs are defined as a grouped type. That is, the value part of an optional IE consists of a list of several independent components, and each component is defined by an individual format.
2. It’s not proper for UE and the network to ignore a whole optional IE due to a field of one component contains a reserved value, since other components can be decoded normally.

It is suggested to add an exception to syntactically incorrect optional IE error handling for grouped type optional IE. |
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| ***Summary of change:*** | Add an exception to syntactically incorrect optional IE error handling for grouped type optional IE. |
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| ***Consequences if not approved:*** | UE and the network could ignore a whole optional IE due to a field of one component contains a reserved value, although other components can be decoded normally. |
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| ***Clauses affected:*** | 7.7.1 |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Update the description. |

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### 7.7.1 Syntactically incorrect optional IEs

The UE shall treat all optional IEs that are syntactically incorrect in a message as not present in the message, except that the value part of an optional IE consists of a list of grouped components and each component is defined by same format(Such as Rejected NSSAI IE contains a list of Rejected S-NSSAIs.).

For this exception, UE shall not ignore the whole optional IE (i.e. UE can keep the syntactically correct component in the value part.).

The network shall take the same approach.

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