**3GPP TSG-CT WG1 Meeting #125-e C1-20xxxx**

**Electronic meeting, 20-28 August 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **24.501** | **CR** | **xxxx** | **rev** | **x** | **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 optional IE |
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| ***Source to WG:*** | China Mobile |
|  |  |
| ***Work item code:*** | 5GProtoc16 |  | ***Date:*** | 2020-08-11 |
|  |  |  |  |  |
| ***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 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)* |
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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 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: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 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 for syntactically incorrect optional IE error handling for group type optional IE. |
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| ***Summary of change:*** | Add an exception for syntactically incorrect optional IE error handling for group 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, since 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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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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 several independent components and each component is defined by an individual format.

For this exception, UE shall not ignore the whole optional IE and only skip the component with the reserved value.

The network shall take the same approach.

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