**3GPP TSG-CT WG1 Meeting #130-eC1-21xxxx was C1-213175**

**Electronic meeting, 20-28 May 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **23.040** | **CR** | **0160** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  |
| *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 |  |

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| ***Title:***  | Inclusive language review – TS 23.040 |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2021-05-04 |
|  |  |  |  |  |
| ***Category:*** | **D** |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | The term "black-listed" is used in the TS 23.040. According to CP-203251 endorsed in CT#90-e, this should be fixed. |
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| ***Summary of change:*** | Replacing "black-listed" with “on the prohibited list”. |
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| ***Consequences if not approved:*** | Non-inclusive language remains in TS 23.040 |
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| ***Clauses affected:*** | 3.3.2 |
|  |  |
|  | **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's revision history:*** |  |

\*\*\*\*\* First change \*\*\*\*\*

### 3.3.2 Errors occurring after TPDU arrives at MS

These errors may occur due to the MS not supporting optional short message service features, or in connection with a short message application. An error indication shall be returned to the SC from the SMS‑GMSC. Additionally, a TPDU (SMS‑DELIVER‑REPORT) containing diagnostic information may be conveyed from the MS to the originating SC, transparently through the PLMN, by means defined in 3GPP TS 24.011 [13] and 3GPP TS 29.002 [15]. The sending of the diagnostic information is optional at the MS, but when it is sent, the PLMN shall convey the information to the SC, and the SC shall support reception of the information.

Table 1: Error indications related to mobile terminated short message transfer which may be transferred to the originating SC

|  |  |  |
| --- | --- | --- |
| Error indication | S1) | Meaning |
| Unknown subscriber | P | The PLMN rejects the short message TPDU because there is not allocated an IMSI or a directory number for the mobile subscriber in the HLR (see 3GPP TS 29.002 [15]). |
| Teleservice not provisioned | P | The PLMN rejects the short message TPDU because the recipient MS has no SMS subscription (see 3GPP TS 29.002 [15]). |
| Call barred | T | The PLMN rejects the short message TPDU due to barring of the MS (see 3GPP TS 29.002 [15], description of the Barring supplementary service, 3GPP TS 22.004 [3] and 3GPP TS 23.011[7]), description of Call barred due to Unauthorised Message Originator, 3GPP TS 29.002 [15], and description of Operator Determined Barring, 3GPP TS 22.041 [4] and 3GPP TS 23.015 [8]). |
| Facility not supported | T | The VPLMN rejects the short message TPDU due to no provision of the SMS in the VPLMN (see 3GPP TS 29.002 [15]). |
| Absent subscriber | T | The PLMN rejects the short message TPDU because- there was no paging response via the SGSN, MSC or both (see 3GPP TS 24.008 [12] & 3GPP TS 29.002 [15])‑ the IMSI GPRS or both records are marked detached (see 3GPP TS 29.002 [15]);‑ the MS is subject to roaming restrictions (see "Roaming not allowed", 3GPP TS 29.002 [15]);- deregistered in the HLR. The HLR does not have an MSC, SGSN or both numbers stored for the target MS, (see 3GPP TS 29.002 [15]);- Unidentified subscriber (see 3GPP TS 29.002 [15]);- MS purged (see 3GPP TS 29.002 [15]) ;- the MS is not registered in the HSS/HLR for IMS;- there was no SIP response received by the IP-SM-GW;- the MS is temporarily unavailable (e.g. in power saving mode due to eDRX).(The reasons for absence are assigned integer values in table 1a. The appropriate integer value is sent with the absent subscriber error indication as defined in 3GPP TS 29.002 [15]) |
| MS busy for MT SMS | T | The PLMN rejects the short message TPDU because of congestion encountered at the visited MSC or the SGSN. Possible reasons include any of the following events in progress:- short message delivery from another SC;- IMSI or GPRS detach- Location Update or Inter SGSN Routing Area Update;- paging;- emergency call;- call setup. |
| SMS lower layerscapabilities not provisioned | T | The PLMN rejects the short message TPDU due to MS not being able to support the Short Message Service.The short message transfer attempt is rejected either due to information contained in the class‑mark, or the MSC not being able to establish connection at SAPI = 3 (see 3GPP TS 24.008 [12] and 3GPP TS 29.002 [15]). |
| Error in MS | T | The PLMN rejects the short message TPDU due to an error occurring within the MS at reception of a short message, e.g. protocol error. |
| Illegal Subscriber | P | The PLMN rejects the short message TPDU because the MS failed authentication. |
| Illegal Equipment | P | The PLMN rejects the short message TPDU because the IMEI of the MS was on the prohibited list in the EIR. |
| System failure | T | The PLMN rejects the short message TPDU due to network or protocol failure others than those listed above (see 3GPP TS 29.002 [15]). |
| Memory Capacity Exceeded | T | The MS rejects the short message since it has no memory capacity available to store the message. |

1) : Status (Permanent or Temporary)

The relation between the two sets of error indications is given in the table 1. Each error is classified as either "Temporary" or "Permanent". This classification gives an indication of whether or not it is probable that the MS becomes attainable within a reasonable period, and so provides the recommended action to be taken by the SC, i.e. either to store the message for later transfer, or to discard it.

Table 1a: Assignment of values to reasons for absence
(values must be in the range of 0 to 255, see 3GPP TS 29.002 [15])

|  |  |
| --- | --- |
| Values | Reason for absence |
| 0 | - no paging response via the MSC |
| 1 | - IMSI detached |
| 2 | - roaming restriction |
| 3 | - deregistered in the HLR for non GPRS |
| 4 | - MS purged for non GPRS |
| 5 | - no paging response via the SGSN |
| 6 | - GPRS detached |
| 7 | - deregistered in the HLR for GPRS |
| 8 | - MS purged for GPRS |
| 9 | - Unidentified subscriber via the MSC |
| 10 | - Unidentified subscriber via the SGSN |
| 11 | - deregistered in the HSS/HLR for IMS |
| 12 | - no response via the IP-SM-GW |
| 13 |  the MS is temporarily unavailable |
| All 'non GPRS' reasons (except for roaming restriction) can be combined with all 'GPRS' reasons and vice-versa |
| All other integer values are reserved. |  |

\*\*\*\*\* End of changes \*\*\*\*\*