**3GPP TSG-SA WG4 Meeting post 130 S4-242029**

**Orlando, 4**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **26.942** | **pCR** |  | **rev** | **-** | **Current version:** | **0.3.2** |  |
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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:*** | Update to Clause 4.2.3.1 | | | | | | | | | |
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| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_MediaEnergyGREEN | | | | |  | ***Date:*** | | | 2024-11-08 |
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| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
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| ***Reason for change:*** | | Making clarifications to reference [L.1310] International Telecommunication Union, Series L Supplement 36, "ITU-T L.1310 – Study on methods and metrics to evaluate energy efficiency for future 5G systems", 11/2017 and reference [L.1310] International Telecommunication Union, Series L, "ITU-T L.1310 - Energy efficiency metrics and measurement methods for telecommunication equipment”, 09/24. | | | | | | | | |
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| ***Summary of change:*** | | New text is added with reference to [L.1310] International Telecommunication Union, Series L, "ITU-T L.1310 - Energy efficiency metrics and measurement methods for telecommunication equipment”, 09/24. | | | | | | | | |
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| ***Consequences if not approved:*** | | Misinterpretation of the reference. | | | | | | | | |
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| ***Clauses affected:*** | | Clause 2 Reference, 4.2.3.1 | | | | | | | | |
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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:*** | |  | | | | | | | | |

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| 1st Change |

# 2 References

[L.1310] International Telecommunication Union, Recommendation ITU-T L.1310: "Energy efficiency metrics and measurement methods for telecommunication equipment".

[L.sup43] International Telecommunication Union, Series L Supplement 36, "ITU-T L.1310 – Study on methods and metrics to evaluate energy efficiency for future 5G systems", 11/2017.

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| 2nd Change |

#### 4.2.3.1 ITU-T

Within the International Telecommunication Union, the T-sector includes Study Group 5 "Environment and Circular Economy" (SG5). Part of its mandate is to define and develop “methodologies for evaluating ICT effects on climate change and publishing guidelines for using ICTs in an eco-friendly way. Under its environmental mandate SG5 is also responsible for studying design methodologies to reduce ICT’s and e-waste’s adverse environmental effects, for example, through recycling of ICT facilities and equipment.”

Among its activities, ITU-T Study Group 5 is developing technical reports, supplements and recommendations for the environmental requirements of 5G.

* Recommendation ITU-T L.1310 [L.1310] contains the definition of energy efficiency metrics, test procedures, methodologies and measurement profiles required to assess the energy efficiency of telecommunication equipment. Energy efficiency metrics and measurement methods are defined for telecommunication network equipment and small networking equipment. These metrics allow for the comparison of equipment within the same class, e.g., equipment using the same technologies.
* ITU-T L.1310 Supplement 36 [L.sup36] analyses the energy efficiency issues for 5G systems. The focus of this supplement is on methods and metrics used to measure energy efficiency in 5G systems with multi-radio equipment.

Further, the L.1400 series of reports and recommendations present methodologies and guidelines for the assessment of the greenhouse gas emissions and energy consumption of the ICT sector. For example:

* Recommendation ITU-T L.1450 [L.1450] presents a methodology for the assessment of the impact of telecommunications systems. It was used in an assessment of the electricity usage and greenhouse gas emissions of the ICT sector [ICT].

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| End of change |