**3GPP TSG-SA WG4 Meeting post 130**  ***S4-242028is revision of S4aI240137***

**Orlando,4**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **942** | **CR** |  | **rev** | **01** | **Current version:** |  |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network | **x** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Clause 3.1. | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | SA4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_MediaEnergyGREEN | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Clause 3.1 of TR 26.942 is empty. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The pCR proposes a list of defnitions to terms used in the TR. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Clause 3.1 is empty and defintions to terms used in the TR remains unclear and ambiguous. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

|  |
| --- |
| Additional references |

## 2 References

[23700] ETSI TR 23-700-66: "Study on Energy Efficiency and Energy Saving".

…

[28310] ETSI TS 28.310: "Management and orchestration; Energy efficiency of 5G".

[EN303472] ETSI EN 303 472: "Environmental Engineering (EE); Energy Efficiency measurement methodology and metrics for RAN equipment".

[ES202706] ETSI ES 202 706-1: "Environmental Engineering (EE); Metrics and measurement method for energy efficiency of wireless access network equipment; Part 1: Power consumption - static measurement method".

[22261] ETSI TS 22.261: "Service requirements for the 5G system".

|  |
| --- |
| Term definitions |

## 3.1 Terms

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**energy efficiency (EE):** ratio between performance and energy consumption.

NOTE: The performance may be measured based on, e.g., data volume, latency, number of active users, etc. as defined in TS 28.310 [28310].

**energy consumption:** integral of power consumption over time, as defined in TS 28.310 [28310].

**maximum energy consumption:** a policy establishing an upper bound on the quantity of energy consumption [28310] by the 5G system in a specific period of time, or space, e.g. energy consumption inside a given service area as defined in ETSI ES 202 706-1 [ES202706].

**energy credit:** a quantity associated with the subscriber that can be used for credit control by the 5G System per TS 22.261 [22261].

**maximum energy credit limit:** a policy establishing an upper bound on the aggregate quantity of energy consumption by the 5G System to provide services to a specific subscriber, e.g. in kilowatt hours [22282].

**renewable energy:** energy from renewable sources, defined as energy from renewable non-fossil sources, namely wind, solar, aerothermal, geothermal, hydrothermal and ocean energy, hydropower, biomass, landfill gas, sewage treatment plant gas and biogases [EN303472].

**carbon intensity:** Global greenhouse gases emitted per unit of generated electricity, measured in grams of CO₂ equivalent per watt–hour intended for conversion to carbon emissions as defined in TS 22.261 [22261] and TS 23.700-66 [23700].

|  |
| --- |
| End of changes |