**3GPP TSG-SA5 Meeting #155 *S5-243293***

**Jeju, South Korea, 27 - 31 May 2024**

**Source: CATT,** **China Unicom**

**Title: pCR TR 28.874 Add terms and abbreviations**

**Document for: Approval**

**Agenda Item: 6.19.15**

# 1 Decision/action requested

***Approval***

# 2 References

[1] 3GPP TR 28.874-010: " Study on management aspects of NTN – Phase 2"

[2] SP-231733: "New SID: Study on Management Aspects of NTN Phase 2"

# 3 Rationale

It is proposed to add definitions and terms.

# 4 Detailed proposal

This contribution proposes to make the following changes in [1].

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| **1st change** |

## 3.1 Terms

For the purposes of the present document, the terms given in TR 21.905 [1], TS 22.261 [a] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

**Feeder link:** Wireless link between NTN Gateway and satellite.

**Service link:** Radio link between satellite and UE.

**Regenerative payload:** payload that transforms and amplifies an uplink RF signal before transmitting it on the downlink. The transformation of the signal refers to digital processing that may include demodulation, decoding, re-encoding, re-modulation and/or filtering.

**Serving satellite:** a satellite providing the satellite access to a UE (e.g. providing the serving cell(s)). Depending on the orbit, the serving satellite may cover a given geographic area for a limited period of time.

**S&F Satellite operation:** operation mode providing communication service (in storing and forwarding information) to a UE in periods of time and/or geographical areas in which the serving satellite is not simultaneously connected to the ground network via feeder link or ISL. For the case of UL, "store" refers to on-board storage of UL information from UE and "forward" refers to forwarding of stored UL information to the ground network. For the case of DL, "store" refers to on-board storage of DL information from the ground network and "forward" refers to forwarding of stored DL information to the UE.

**UE-Satellite-UE Communication:** refers to a communication between UEs under the coverage of one or more serving satellites, using satellite access without the user traffic transiting through the ground segment.

**NTN Gateway**: an earth station located at the surface of the earth, providing connectivity to the NTN payload using the feeder link. An NTN Gateway is a TNL node.

**On board NTN gNB:** gNB implemented in the regenerative payload on board a satellite.

**On ground NTN gNB:** gNB of a transparent satellite payload implemented on ground.

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| **Next change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 38.423: "Technical Specification Group Radio Access Network; NG-RAN; Xn application protocol (XnAP) "

[3] 3GPP TS 38.300: "Technical Specification Group Radio Access Network; NR; NR and NG-RAN Overall Description; Stage 2"

[4] 3GPP TR 38.821: "Technical Specification Group Radio Access Network; Solutions for NR to support non-terrestrial networks (NTN) "

[5] 3GPP TR 22.865: "Study on satellite access Phase 3"

[x] 3GPP TS 22.261: "Service requirements for the 5G system; Stage 1".

[y] 3GPP TR 23.700-29: " Study on integration of satellite components in the 5G architecture; Stage 3".

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| **Next change** |

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

NTN Non-Terrestrial Network

S&F Store and Forward

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| **End of change** |