**3GPP TSG SA WG 1 Meeting #99e S1-222090**

**Electronic Meeting, 22 August – 1 September 2022**

Title: Scope for the TR22.865

Agenda item: 7.8

Source: Novamint

Document for: Approval

Contact: Thierry Bérisot (tberisot@novamint.com)

*Abstract: This contribution provides a text proposal for the Scope section of TR 22.865 v.0.0.0.*

\* \* \* First Change \* \* \* \*

# 1 Scope

The scope of this TR ~~of this study~~ is to study new use cases ~~and related regulatory requirements~~ and identify new potential service requirements ~~and~~ to enhance~~ment~~ ~~for~~ 5G system to support ~~over~~ satellite access, ~~including~~ considering and analysing especially the following aspects:

* Store and forward operation applicability with discontinuous feeder link for delay-tolerant IoT to **extend the satellite service coverage** in areas where satellites cannot be connected to ground stations (e.g. maritime or very remote areas with lack of ground-stations infrastructures) and to i**mprove the ground segment affordability** by enabling operation with fewer ground-stations and allowing more robust operation of the satellite under intermittent feeder link operation.
* GNSS independent operation feasibility means of Support of GNSS independent operation to allow providing satellite access to UE without GNSS receiver or with no access to GNSS service.
* Traffic scheduling between multiple-RAT (terrestrial and satellite access network/multi orbit).

- Operation with intermittent/temporary satellite connectivity for delay-tolerant communication service

* Allowing to support delay tolerant communication service via satellite (e.g. NGSO) when satellite connectivity is intermittently/temporarily unavailable, e.g. to provide communication service for UEs under satellite coverage without a simultaneous active feeder link connection to the ground segment.

~~- GNSS independent operation~~

* ~~Support of GNSS independent operation would allow to provide satellite access to UE without GNSS receiver or with no access to GNSS service.~~

- Positioning Enhancements

* Gap analysis between existing positioning requirements for terrestrial access and the requirements that can be satisfied via NTN access, and determine potential updates to NTN positioning KPIs.
* Study new relevant regulatory requirements if any

- Communication between UEs under the same satellite’s coverage

* Analysis of potential additional service requirements e.g. regarding latency

\* \* \* End of Change \* \* \* \*