**3GPP TSG-RAN WG2 Meeting #119 Electronic DRAFT R2-220xxxx**

**Elbonia, 17 – 26 May 2022**

**Title: [DRAFT]** LS on Pose Information for XR

**Release:** Release 18

**Work Item:** FS\_NR\_XR\_enh

**Source:** Nokia [TSG RAN WG2]

**To:** TSG SA WG4

**Cc:** TSG SA WG2, TSG RAN WG1

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**1. Overall Description:**

RAN2 has started a study item to investigate the support of XR services [[RP-221079](http://3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_96/Docs/RP-221079.zip)] and has noticed that for UL pose information, SA4 TR [26.928](http://www.3gpp.org/ftp/Specs/html-info/26928.htm) section 4.1.3 states that "*XR applications require highly accurate, low-latency tracking of the device at about 1kHz sampling frequency.*"

In order to understand how the uplink of XR would look like, RAN2 would like to know if there is any relationship between the sampling frequency mentioned above and the number of individual packets that need to be carried over the air interface.

RAN2 kindly ask SA4 for clarification on pose information including the periodicity of pose information to be conveyed in uplink, potential impacts caused by pose information on sampling periodicity of PDB, PER, burst size and XR traffic periodicity. For example, RAN1 R17 study on XR has assumed a 250Hz sampling rate and 10 msec PDB for pose information. RAN2 would like to know whether a sampling rate of 1kHz would lead to more stringent PDB requirement. Besides, RAN2 would like to understand how many pose information flows are needed per XR application.

**2. Actions:**

**To SA4 group.**

**ACTION:** RAN2 respectfully asks SA4 to clarify the frequency of pose information in uplink.

**3. Date of Next TSG-RAN WG2 Meeting:**

RAN2#119bis-e from 2022-10-10 to 2022-10-19 Online

RAN2#120 from 2022-11-14 to 2022-11-18 Canada