**3GPP TSG-SA3 Meeting #123 S3-252928-r1**

**Goteborg, Sweden, 25 – 29 August 2025**

**Title: Reply LS on O-RAN ALLIANCE - 3GPP collaboration on PQC**

**Response to: S3-252510 O-RAN ALLIANCE – 3GPP collaboration on PQC**

**Release:**

**Work Item:**

**Source: SA3**

**To: O-RAN ALLIANCE**

**Cc:**

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

**Attachments:**

# 1 Overall description

SA3 would like to thank O-RAN ALLIANCE on requesting for collaboration. SA3 is happy to work with O-RAN Alliance on various security aspects relevant to 3GPP systems. Regarding information requested in the LS, SA3’s responses are as follows:

**Q1**: Plan for PQC standardization, to enable alignment within O-RAN.

**[SA3]:** SA3 completed a technical report TR 33.938 on 3GPP Cryptographic Inventory in June 2025. SA3 has started a new study on “Transitioning to Post Quantum Cryptography in 3GPP” and its progress and outcome will be documented in TR 33.703.

**Q2**: The timeline for 3GPP’s PQC study, including any dependencies that may influence the schedule, such as standardization efforts within the IETF.

**[SA3]: T**he Release-20 study “Transitioning to Post Quantum Cryptography in 3GPP” is expected to be completed in June 2026. Whether there will be normative work depends on the conclusions at the end of the study.

**Q3**: The framework and format for capturing PQC migration-related data for various protocols, if such a structure already exists.

**[SA3]:** SA3 has captured the following information in the study report TR 33.938: 3GPP protocols and profiles details, cryptographic algorithm(s) used and the feature(s) or the usage types.

SA3 kindly asks O-RAN ALLIANCE to take above information into consideration.

# 2 Actions

**To O-RAN ALLIANCE**

**ACTION:** SA3 kindly asks O-RAN ALLIANCE to take above information into consideration.

# 3 Dates of next TSG SA WG 3 meetings

SA3#124 13 – 17 October 2025 Wuhan, China

SA3#125 17 – 21 Nov 2025 Dallas, United States