

IEEE 802.11 WLAN Working Group Liaison Communication

Source: IEEE 802.11 Working Group¹

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Subject: Liaison communication to Wi-Fi Alliance regarding PQC project at the IEEE
802.11 WG

Approval: Approved by the IEEE 802.11 Working Group at IEEE 802.11 interim meeting,
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Dear Colleagues,

The IEEE 802.11 Working Group has launched a new project, **P802.11bt**, with the scope of extending IEEE 802.11 security to support **post-quantum cryptography (PQC)** algorithms.

Advances in quantum computing are expected to weaken the public-key cryptography that underpins today's Wi-Fi authentication and key establishment. P802.11bt will introduce quantum-resistant mechanisms so that Wi-Fi continues to provide trusted security for the billions of devices and users that rely on it — protecting enterprise, consumer, and critical-infrastructure deployments as the industry transitions to a post-quantum world. The project provides a clear,

¹ This document represents the views of the IEEE 802.11 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

standards-based migration path for vendors and operators, and aligns Wi-Fi with broader industry and regulatory PQC timelines.

The project has made significant advances over the past few weeks, focusing on these regulatory requirements and timelines.

Given the Wi-Fi Alliance's central role in certification and ecosystem adoption, the IEEE 802.11 Working Group would like to open an ongoing dialogue on P802.11bt. We are prepared to share project status, technical direction, and timelines, and we welcome the Wi-Fi Alliance's input on market needs and deployment considerations as the work progresses.

We look forward to continued collaboration.

Sincerely,

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