

Cisco Wireless Access Points

Domain to frequency and channel mapping

Background

Regulators mandate that access points be configured with appropriate channel and power levels for the geographical location where they will be deployed.

Currently, access point radios in the Cisco® Unified Wireless Network Architecture are tied to a specific regulatory domain. This regulatory domain defines valid operational channel sets and allowed power levels for a given country. Cisco Aironet® and Catalyst® access points support multiple domains.

This document provides the mapping of allowed channels per domain for all Cisco 802.11ac Wave 2 (Wi-Fi 5) and 802.11ax (Wi-Fi 6) access points.

Mapping identified in this document is applicable for the access points listed below.



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References

Products

Indoor access points

- **Catalyst 9130AX Series:** C9130AXI, C9130AXE
- **Catalyst 9120AX Series:** C9120AXI, C9120AXE, C9120AXP
- **Catalyst 9117AX Series:** C9117AXI
- **Catalyst 9115AX Series:** C9115AXI, C9115AXE
- **Catalyst 9105AX Series:** C9105AXI, C9105AXW
- **Aironet 4800:** AP4800I
- **Aironet 3800 Series:** AP3800I, AP3800E, AP3800P
- **Aironet 2800 Series:** AP2800I, AP2800E, AP2800P
- **Aironet 1850 Series:** AP1852I, AP182E
- **Aironet 1840 Series:** AP1840I
- **Aironet 1830 Series:** AP832I
- **Aironet 1815 Series:** AP1815I, AP1815M, AP1815T, AP1815W

Outdoor access points

- **Aironet 1560 Series:** AP1562I, AP1562D, AP1562E
- **Aironet 1540 Series:** AP1542I, AP1542D
- **Catalyst 9124AX Series:** C9124AXI, C9124AXD

Figure 1. Indoor access points: 2.4-GHz supported channels

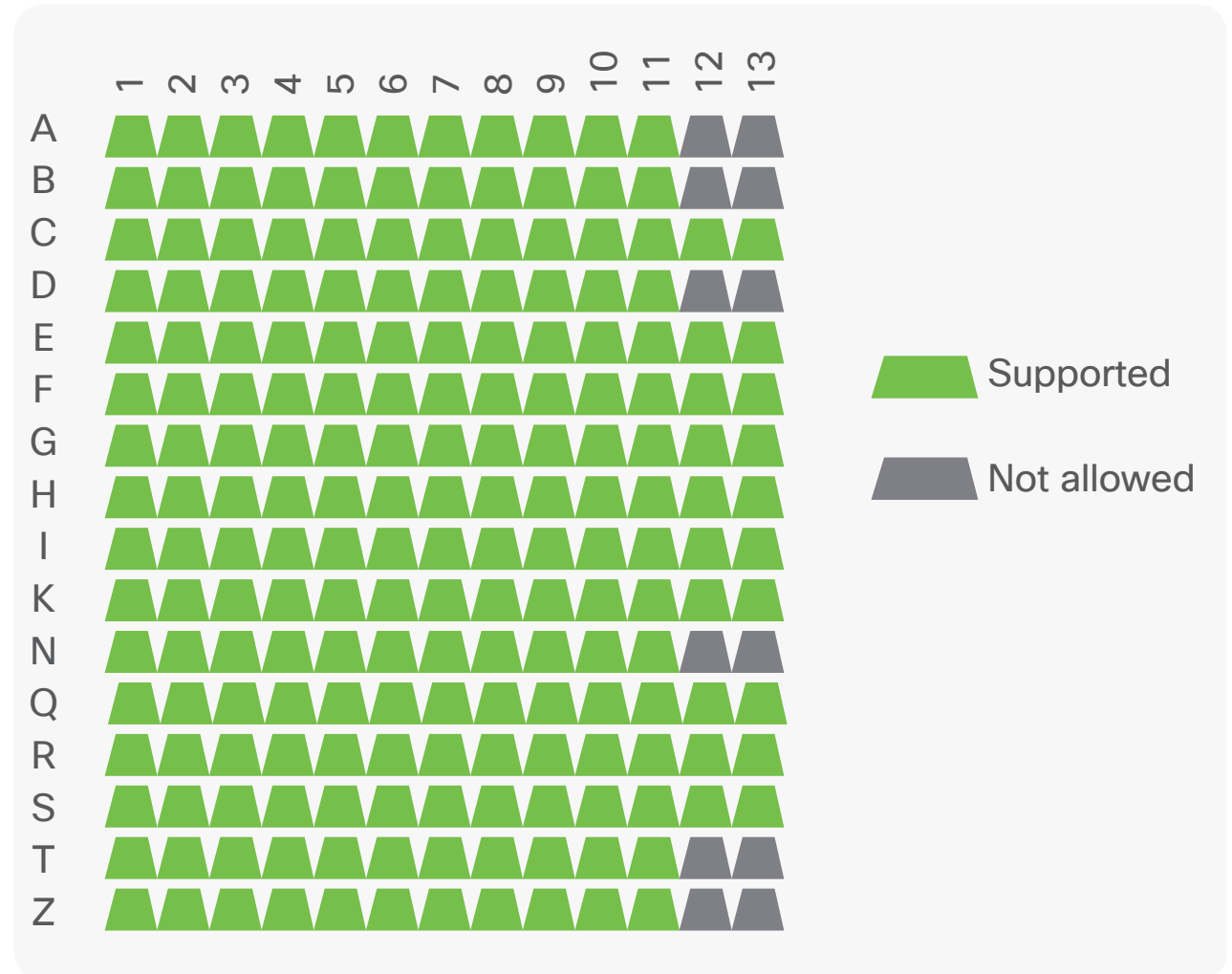
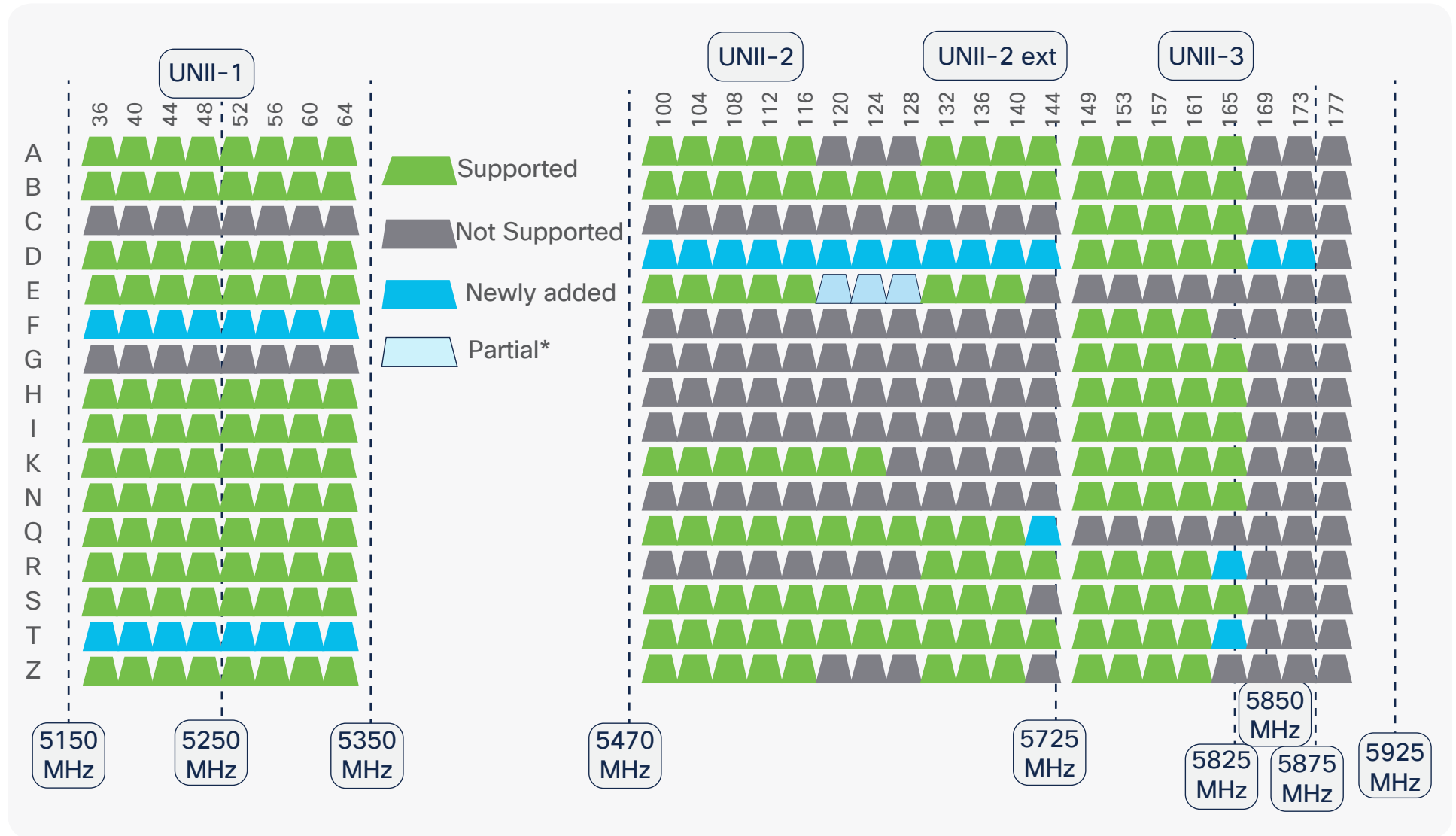


Figure 2. Indoor access points: 5-GHz supported channels



*E domain channels 120, 124, and 128 are available only in the Aironet 2800, 3800 and 4800 Series access points.

Figure 3. Outdoor access points: 2.4-GHz supported channels

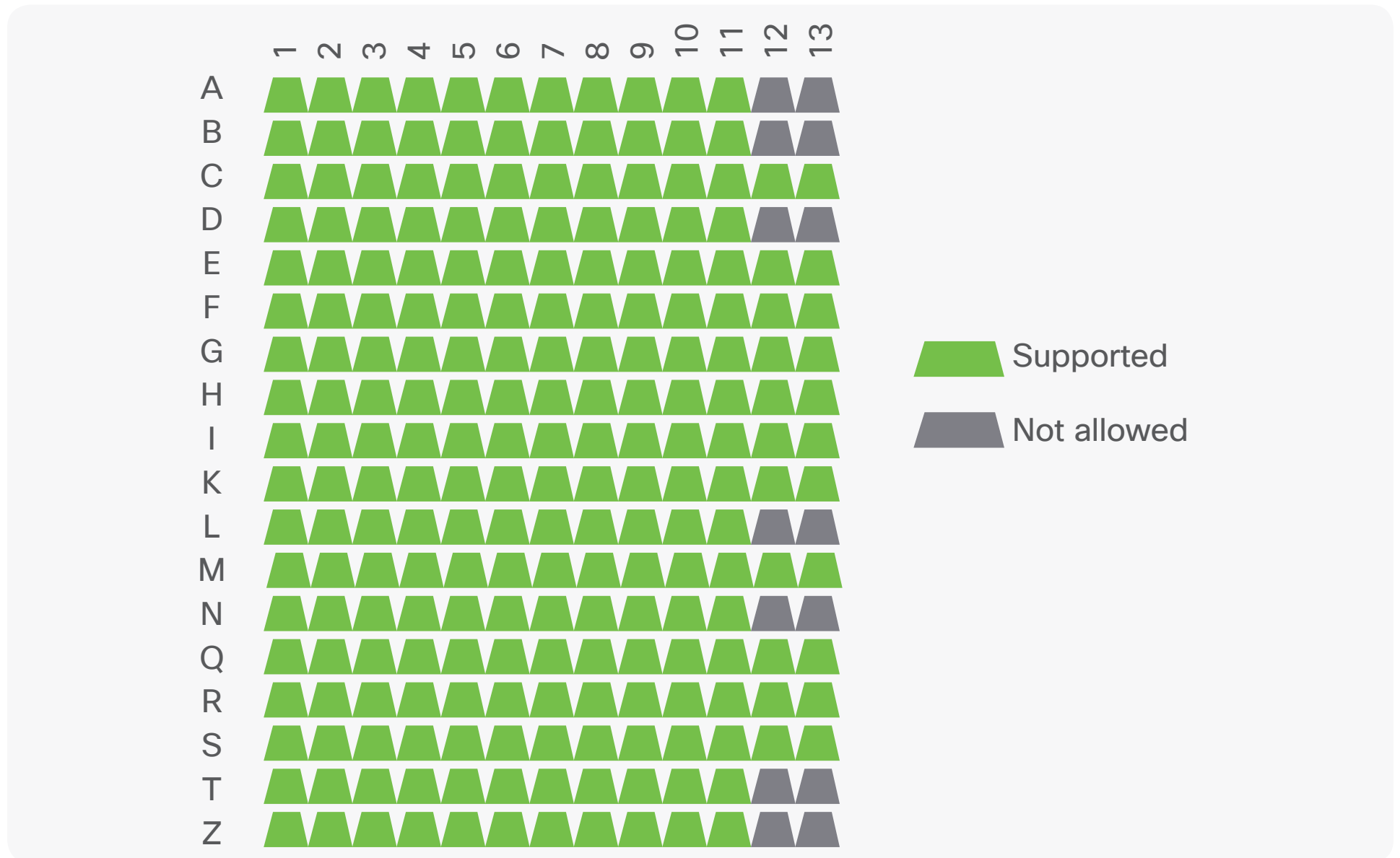
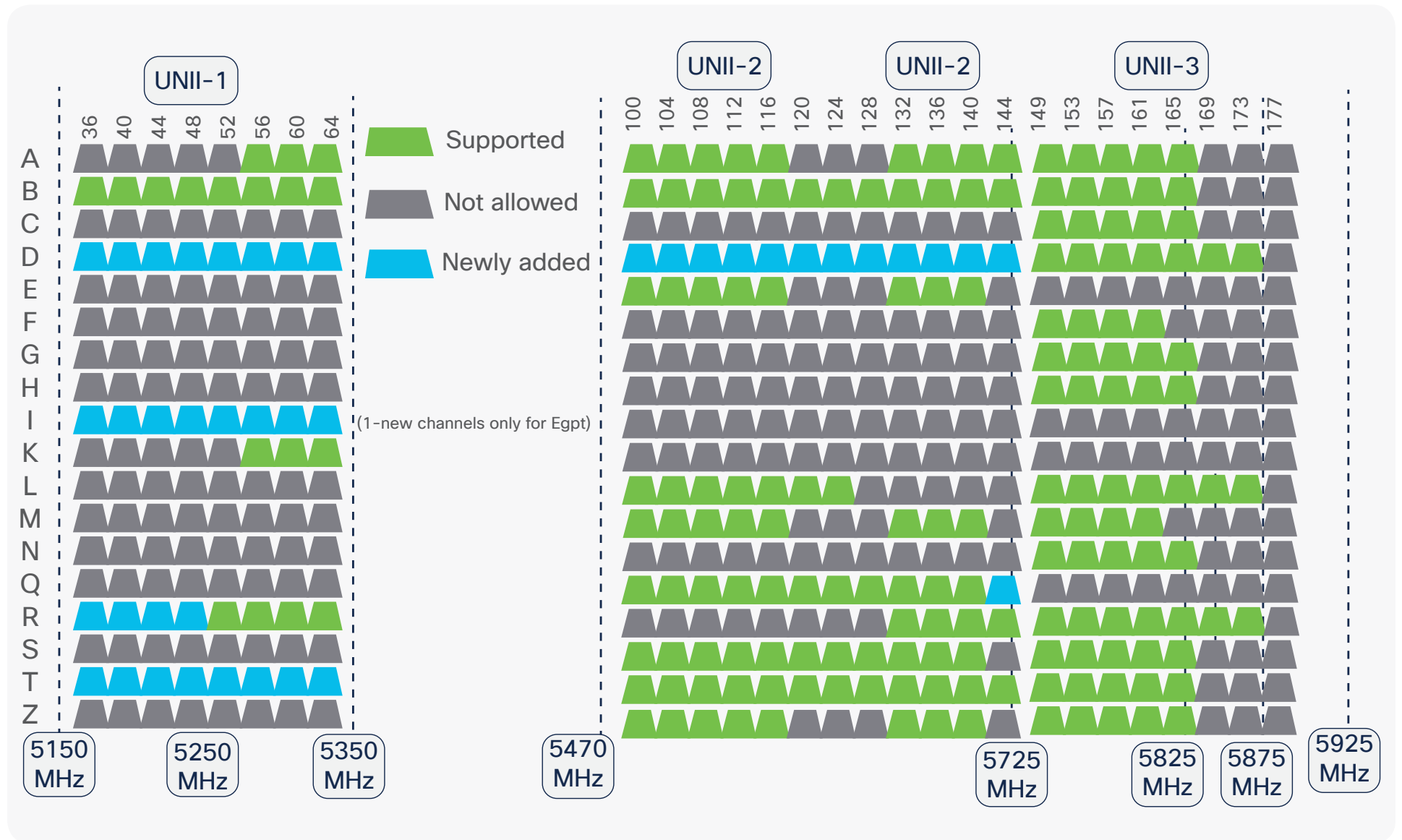


Figure 4. Outdoor access points: 5-GHz supported channels



References

1. Links to detailed frequency and power-level information per access point model

Table 1. Links to access point power tables

Access points	Power tables
Catalyst 9130AX Series	C9130AXI , C9130AXE
Catalyst 9120AX Series	C9120AXI , C9120AXE , C9120AXP
Catalyst 9117AX Series	C9117AXI
Catalyst 9115AX Series	C9115AXI , C9115AXE
Catalyst 9105AX Series	C9105AXI , C9105AXW
Catalyst 9124AX Series	C9124AXI , C9124AXD
Aironet 4800	AP4800I
Aironet 3800 Series	AP3800I , AP3800E , AP3800P
Aironet 2800 Series	AP2800I , AP2800E , AP2800P
Aironet 1800 Series	AP1852I , AP1852E AP1840I AP1832I AP1815I , AP1815M , AP1815T , AP1815W
Aironet 1560 Series	AP1562I , AP1562D , AP1562E
Aironet 1540 Series	AP1542I , AP1542D

2. Country domain mapping:

<https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html>