HPE Aruba Networking 650 Series Campus Access Points

Startup Guide

Hewlett Packard Enterprise

0512241-03

HPE Aruba Networking 650 Series Campus Access Points are high-performance devices that can be deployed in either controller-based or controller-less network environments. These access points support the 802.11ax standard in the 2.4 GHz, 5 GHz, and 6 GHz bands with a 4x4 MIMO tri-radio Wi-Fi 6E platform. Additionally, the 650 Series provides dual wired 5 Gbps Smart Rate Ethernet network interfaces that enhance their performance and client capacity.

Package Contents

The following materials are included with this product:

- AP-654 or AP-655 Access Point

Inform your supplier if there are any incorrect, missing or damaged parts. To return this product, repack this unit and or other included materials into the original packaging before returning it to the supplier.

Installation

This device must be professionally installed and serviced by a certified and trained technician. To install this device, refer to the *HPE Aruba Networking 650 Series Installation Guide* by scanning the QR code in this section or selecting **Software & Documents**>**Access Points (AP & IAP)** at asp.arubanetworks.com.

The following are the default AP management credentials for logging in:

- Username: admin
- Password: <Serial number of the AP>

Software

For instructions on initial setup and software configuration, refer to the latest version of the AP Software Quick Start Guide by scanning the QR code in this section, or visiting asp.arubanetworks.com, then selecting > **Software & Documents**.

Software End User License Agreement

The End User License Agreement (EULA) information for this product can be found at www.arubanetworks.com/assets/legal/EULA.pdf.

Regulatory Compliance

An upgrade to the AP firmware and/or downloadable regulatory table (DRT) file to the latest available version is recommended. This ensures that the AP supports the most up-to-date set of countries and regulatory specifications.

HPE Aruba Networking access points are classified as radio transmission devices, and are subject to government regulations of the host country. The network administrator(s) is/are responsible for ensuring that this device operates in accordance with all local/regional laws of the host domain. Access points must use channel assignments appropriate to the domain in which the access point is deployed.

For a complete list of approved devices for by your country domain, refer to the *HPE Aruba Networking Downloadable Regulatory Table Release Note* by scanning the QR code in this section, or visiting www.arubanetworks.com/techdocs/DRT/Default.htm.

The regulatory model numbers (RMN) for the HPE Aruba Networking 650 Series are:

- AP-654 RMN: APIN0654
- AP-655 RMN: APIN0655

Changes or modifications to this unit not expressly approved by HPE Aruba Networking can void the user's authority to operate this equipment.

802.11ax operations must be switched off in countries that don't currently allow 802.11ax and it is up to the installer to comply with this legal requirement.

Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistema devidamente autorizados.

Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Déclaration d'Industrie Canada

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:1) L'appareil ne doit pas produire de brouillage;2) L'appareil doit accepter tout brouillage adioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For the 6 GHz band, AP-654 is pending approval in the US (5925-6425 MHz and 6525-6875 MHz) and Canada (5925-6875 MHz) for Standard Power operations (in conjunction with an Automated Frequency Coordination [AFC] system). Other countries may also approve this Standard Power use in the future. Please check the *650 Series Installation Guide* for the latest status on Standard Power regulatory approvals at www.arubanetworks.com/techdocs/hardware/aps/ap655/ig/650_ Series_ Installation_Guide_EN.pdf.

EU & UK Regulatory Conformity

The Declaration of Conformity made under Radio Equipment Directive 2014/53/EU as well as the United Kingdom's Radio Equipment Regulations 2017/UK is available for viewing below. Select the document that corresponds to your device's model number as it is indicated on the product label.

- EU & UK Declaration of Conformity (http://www.hpe.com/eu/certificates)

European Union and United Kingdom

This device is limited for indoor use. Use in trains with metal-coated windows (or similar structures made of materials with comparable attenuation characteristic) and aircraft is permitted. Operations in the 6GHz band are blocked by firmware for some countries pending adoption of spectrum. Refer to Aruba DRT release notes for details.

Wireless Channel Restrictions

5150-5350MHz band is limited to indoor only in the following countries; Austria (AT), Belgium (BE), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (GR), Hungary (HU), Iceland (IS), Ireland (IE), Italy (IT), Latvia (LV), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Malta (MT), Netherlands (NL), Norway (NO), Poland (PL), Portugal (PT), Romania (RO), Slovakia (SK), Slovenia (SL), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK (NI), United Kingdom (UK).

Radio	Frequency Range MHz	Max EIRP
BLE/Zigbee	2402-2480 MHz	10 dBm
Wi-Fi	2412-2472 MHz	20 dBm
	5150-5250 MHz	23 dBm
	5250-5350 MHz	23 dBm
	5470-5725 MHz	30 dBm
	5752-5850 MHz	14 dBm

Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Ukraine

Hereby, HPE Aruba Networking declares that the radio equipment type [The Regulatory Model Number [RMN] for this device can be found on page 1 of this document] is in compliance with Ukrainian Technical Regulation on Radio Equipment, approved by resolution of the CABINET OF MINISTERS OF UKRAINE dated May 24, 2017, No. 355. The full text of the UA declaration of conformity is available at the following internet address: https://certificates.ext.hpe.com/public/certificates.html

United States

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit that is different from that to which the receiver is connected
- Consult the dealer or an experienced radio or television technician for help.

Improper termination of access points installed in the United States configured to a non-US model controller is a violation of the FCC grant of equipment authorization. Any such willful or intentional violation may result in a requirement by the FCC for immediate termination of operation and may be subject to forfeiture (47 CFR 1.80).

For additional safety and regulatory information about this product, refer to the *650 Series Installation Guide*.

EU & UK Regulatory Contact:
HPE, Postfach 0001,1122 Wien, Austria

กสทช.

เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้รับใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุคมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาตวิทยุคมนาคม ตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498

กสทช. โทรคมนาคม
กำกับดูแลเพื่อประชาชน
Call Center 1200 (โทรฟรี)

Contact HPE Aruba Networking

Main Site	www.arubanetworks.com
Support Site	www.asp.arubanetworks.com
Airheads Social Forums and Knowledge Base	www.community.arubanetworks.com/
North America Telephone	1-800-943-4526 1-408-754-1200
International Telephone	www.arubanetworks.com/support-services/contact-support/
Software Licensing Site	www.hpe.com/networking/support
End-of-Life Information	www.arubanetworks.com/support-services/end-of-life/
Security Incident Response Team (SIRT)	www.arubanetworks.com/support-services/security-bulletins Email: aruba-sirt@hpe.com

Copyright

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Open Source Code

This product includes code licensed under certain open source licenses which require source compliance. The corresponding source for these components is available upon request. This offer is valid to anyone in receipt of this information and shall expire three years following the date of the final distribution of this product version by Hewlett Packard Enterprise Company. To obtain such source code, please check if the code is available in the HPE Software Center at https://myenterpriselicense.hpe.com/cwp-ui/software but, if not, send a written request for specific software version and product for which you want the open source code. Along with the request, please send a check or money order in the amount of US $10.00 to:

A complete machine-readable copy of the source code corresponding to such code is available upon request. This offer is valid to anyone in receipt of this information and shall expire three years following the date of the final distribution of this product version by Hewlett Packard Enterprise Company.

Hewlett Packard Enterprise Company

Attn: General Counsel

WW Corporate Headquarters

1701 E Mossy Oaks Rd Spring, TX 77389

United States of America

Warranty

This hardware product is protected by an HPE Aruba Networking warranty.

For more details visit www.hpe.com/us/en/support.html and select the HPE Servers, Storage, and Networking option from the Product Support menu to access HPE's Warranty Check.

WW Corporate Headquarters

1701 E Mossy Oaks Rd Spring, TX 77389

United States of America

Hewlett Packard Enterprise

SIMPLIFIED DECLARATION OF CONFORMITY

[RMN]:

EN Hereby, Hewlett Packard Enterprise Company declares that the radio equipment type **[RMN]** is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.hpe.com/eu/certificates

EN Hereby, Hewlett Packard Enterprise Company declares that the radio equipment type **[RMN]** is in compliance with the UK Radio Equipment Regulations 2017 (S.I. 2017/1206). The full text of the declaration of conformity is available at the following internet address: www.hpe.com/eu/certificates

DE Hiermit erklärt Hewlett Packard Enterprise Company, dass der Funkanlagentyp **[RMN]** der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: www.hpe.com/eu/certificates

FR Le soussigné, Hewlett Packard Enterprise Company, déclare que l'équipement radioélectrique du type **[RMN]** est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: www.hpe.com/eu/certificates

IT Il fabbricante, Hewlett Packard Enterprise Company, dichiara che il tipo di apparecchiatura radio **[RMN]** è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: www.hpe.com/eu/certificates

ES Por la presente, Hewlett Packard Enterprise Company declara que el tipo de equipo radioeléctrico **[RMN]** es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: www.hpe.com/eu/certificates

PL Hewlett Packard Enterprise Company niniejszym oświadcza, że typ urządzenia radiowego **[RMN]** jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: www.hpe.com/eu/certificates

RO Prin prezenta, Hewlett Packard Enterprise Company declară că tipul de echipamente radio **[RMN]** este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: www.hpe.com/eu/certificates

NL Hierbij verklaar ik, Hewlett Packard Enterprise Company, dat het type radioapparatuur **[RMN]** conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: www.hpe.com/eu/certificates

HU A Hewlett Packard Enterprise Company igazolja, hogy a(z) **[RMN]** típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: www.hpe.com/eu/certificates

PT O(a) abaixo assinado(a) Hewlett Packard Enterprise Company declara que o presente tipo de equipamento de radio **[RMN]** está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: www.hpe.com/eu/certificates

EL Με την παρούσα ο/η Hewlett Packard Enterprise Company, δηλώνει ότι ο ραδιοεξοπλισμός **[RMN]** πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: www.hpe.com/eu/certificates

SV Härmed försäkrar Hewlett Packard Enterprise Company att denna typ av radioutrustning **[RMN]** överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: www.hpe.com/eu/certificates

CS Tímto Hewlett Packard Enterprise Company prohlašuje, že typ rádiového zařízení **[RMN]** je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: www.hpe.com/eu/certificates

BG С настоящото Hewlett Packard Enterprise Company декларира, че този тип радиосъоръжение **[RMN]** е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: www.hpe.com/eu/certificates

SK Hewlett Packard Enterprise Company týmto vyhlasuje, že rádiové zariadenie typu **[RMN]** je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: www.hpe.com/eu/certificates

DA Hermed erklærer Hewlett Packard Enterprise Company, at radioudstyrstypen **[RMN]** er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: www.hpe.com/eu/certificates

FI Hewlett Packard Enterprise Company vakuuttaa, että radiolaitetyyppi **[RMN]** on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: www.hpe.com/eu/certificates

LT Aš, Hewlett Packard Enterprise Company, patvirtinu, kad radijo įrenginių tipas **[RMN]** atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: www.hpe.com/eu/certificates

NO Hewlett Packard Enterprise Company erklærer herved at utstyret **[RMN]** er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF. Samsvarserklæring: www.hpe.com/eu/certificates

SL Hewlett Packard Enterprise Company potrjuje, da je tip radijske opreme **[RMN]** skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: www.hpe.com/eu/certificates

ET Käesolevaga deklareerib Hewlett Packard Enterprise Company, et käesolev raadioseadme tüüp **[RMN]** vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: www.hpe.com/eu/certificates

HR Hewlett Packard Enterprise Company ovime izjavljuje da je radijska oprema tipa **[RMN]** u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: www.hpe.com/eu/certificates

LV Ar šo Hewlett Packard Enterprise Company deklarē, ka radioiekārta **[RMN]** atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: www.hpe.com/eu/certificates

IS Hér með lýsir Hewlett Packard Enterprise yfir því að **[RMN]** er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC. Samræmisyfirlýsing: www.hpe.com/eu/certificates

MT B'dan, Hewlett Packard Enterprise Company, niddikjara li dan it-tip ta' tagħmir tar-radju **[RMN]** huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: www.hpe.com/eu/certificates

EU Regulatory Contact: HPE, Postfach 0001, 1122 Wien, Austria, e-mail: tre@hpe.com

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