



# RG-RAP2260 Series

## Wi-Fi 6 Dual Band Ceiling Mount Access Point

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## Product Photos



RG-RAP2260(G)



RG-RAP2260(E)

## Product Overview

Ruijie Reyee RG-RAP2260 Series are high-performance Wi-Fi 6 AP for indoor large-area Wi-Fi coverage scenarios. The devices support 802.3at PoE and 12V DC local power supply. The dual Ethernet ports design facilitates the expansion of third-party devices to meet the needs of more networking scenarios. Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocol, they all offer built-in omnidirectional antennas.

RG-RAP2260(G) supports MU-MIMO dual-stream technology, and it can operate concurrently at 2.4GHz and 5GHz, providing high-speed wireless access of 574Mbps at 2.4GHz, 1201Mbps at 5GHz and up to 1775Mbps per AP.

RG-RAP2260(E) also supports dual-band operate concurrently and MU-MIMO, but it supplies more advanced technology about quad-stream. So it can provide higher speed wireless access of 800Mbps at 2.4GHz, 2402Mbps at 5GHz and up to 3202Mbps per AP. One of the ethernet ports is upgraded to multi-gigabit Ethernet (2.5GE) port to break through the bottleneck of transmission performance.

The coverage of RAP2260(G) is over 20 meters and the coverage of RAP2260(E) is over 25 meters, make them ideal choices for many wireless scenarios, especially in offices, commercial industry, hotels, service scenarios, etc.

## Product Overview

The industrial product design, iconic edges and breathing light makes the product more recognizable. Adopting the non-directional installation design, the new mounting kits support various installation methods including on desktop, ceiling, wall, and pole, which improves the versatility of installation, simplifies the installation steps, reduces the installation difficulty, and greatly improves the installation experience of the device.

RG-RAP2260 Series supports Ruijie' s self-developed Self-Organizing Network feature. With the Ruijie Cloud app, users can quickly complete the device deployment and configuration, remote management, operation and maintenance of the entire network, which greatly reduces the investment of equipment cost, labor cost and time cost in the process of wireless network construction.

Users can perform comprehensive local management or remote management of the equipment in the entire network via the Ruijie Cloud app, equipment EWEB management, Ruijie Cloud platform, etc. Users can also share the network to third party for network hosting and collaborative management, thereby achieving simpler, easier to use, more secure and convenient enterprise network operation and maintenance.

# Highlight

## 2.1 Wi-Fi 6 Technology

### 2.1.1 1024-QAM High-speed Access

The RG-RAP2260 series adopts the 2G+5G dual-radio dual-band design. With the latest Wi-Fi 6 technology, the maximum access rate of RAP2260(G) and RAP2260(E) can reach 1.2Gbps and 2.4Gbps respectively. If dual-radio is enabled concurrently, the high-speed Wi-Fi can reach 1.8Gbps and 3.2Gbps, offering the true high-speed experience.

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### 2.1.2 OFDMA High-density User Access

The RG-RAP2260 series supports OFDMA of Wi-Fi 6, which divides the WLAN channel into a plurality of narrower sub channels, with each user occupying one or more sub channels. By scheduling multiple users to receive and send packets concurrently via the AP, user competition and back-off can be reduced, thereby reducing network latency and improving network efficiency. In a high-density deployment environment, the average rate per user is increased to four times of 802.11ac.

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### 2.1.3 Bi-Directional MU-MIMO

Compared with the previous Wi-Fi 5 (802.11ac) with only downlink MU-MIMO support, Wi-Fi 6 supports both uplink and downlink MU-MIMO ( multi-user, multiple-input and multiple-output ). Therefore, Ruijie RG-RAP2260 Series access points can connect clients simultaneously, significantly improving the wireless performance and experience.

# Highlight

## 2.1.4 TWT ( Target Wake Time )

Target wake time (TWT) is used to help minimize contention between clients and reduce the amount of time a client in power save mode to be awake. Energy consumption is reduced by up to 70% of the battery consumption, thereby improving battery life.

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## 2.1.5 Spatial Reuse with BSS Color

The RG-RAP2260 series supports spatial reuse with basic service set (BSS) color of Wi-Fi 6 to identify the BSSs of different WLANs in the network by different coloring (BSS color), and further divide them into internal and external BSS. Different packet receiving and sending thresholds can be maintained. When receiving packets, BSS coloring is used to quickly identify the packet of the external BSS. If the signal strength is lower than the receiving threshold of the external BSS, the packet will be ignored. The transmission of the internal BSS packet will be not affected. This technology can implement channel reuse in a high-density scenario, greatly reducing the impact of co-channel interference for the actual network deployment.

# Highlight

## 2.2 Auto-Provisioning via Self-Organizing Network

Supports Ruijie' s self-developed Self-Organizing Network feature, which breaks through the product limitations and realizes auto-discovery, auto-networking and auto-configuration between gateways, switches, and wireless APs without the need for controllers or Internet access;

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## 2.3 Lifetime free Ruijie Cloud Management

Remote fault alarm, one-click optimizing and maintenance on Ruijie Cloud APP;

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## 2.4 More LAN Port

2 LAN interfaces are provided to support more services;

RG-RAP2260(E) provide 2.5GE port break through the bottleneck of transmission performance.

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## 2.5 Seamless Layer 3 Roaming

Industrial Design: Robust casing, Provide better strength and safety for products;

# Product Features

## High-Speed Dual-band Wi-Fi

The device supports 2.4GHz and 5GHz dual-band communication, they can provide 5GHz frequency band with less interference, wider channel, and faster speed for the terminals, allowing the users to enjoy excellent wireless experience.

RAP2260(G) provide access rate of 574Mbps at 2.4GHz, 1201Mbps at 5GHz ,in total 1775Mbps per AP. And RAP2260(E) provide access rate of 800Mbps at 2.4GHz, 2402Mbps at 5GHz ,in total 3202Mbps per AP.

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## Dual LAN Ports Design

The device adopts the dual LAN ports design. Even for complex networking requirements, it can easily and quickly support the expansion of third-party devices, such as cameras, time and attendance devices, etc.

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## Support Routing and AP Mode

The device supports both AP and routing mode. A wireless network can be formed with multiple APs, or it can be used as a wireless router when deployed independently. The device offers more flexible configurations, more abundant application features, and more extensive applicable scenarios.



# Product Features

## Support Layer 3 roaming

The device supports Layer 3 roaming for the complex Layer 3 network. When users move across the Layer 3 networks, seamless roaming can be achieved without service interruption.

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## Stronger and More Stable Signals

An aluminum alloy antenna reflector is added to reflect interference signals and focus effective signals so as to provide stronger signal transmission and better receiving sensitivity.

The device uses FBAR to filter out most of interferences caused by the operator's base stations, microwave ovens, Bluetooth devices, etc., so as to provide cleaner wireless signals, higher transmission rate and more stable transmission quality.

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## Robust Casing

With the robust and flame-retardant material of the AP casing, the impact resistance is 5 times higher than that of common ABS plastic materials. The tensile and flexural strengths are increased by 30%, which is not easy to damage. Users can rest assured during usage and maintenance.

# Product Features

## Simple Installation

It supports various installation methods including on desktop, ceiling, wall, and pole. Adopting the non-directional installation design, the equipment can be installed in one go efficiently.

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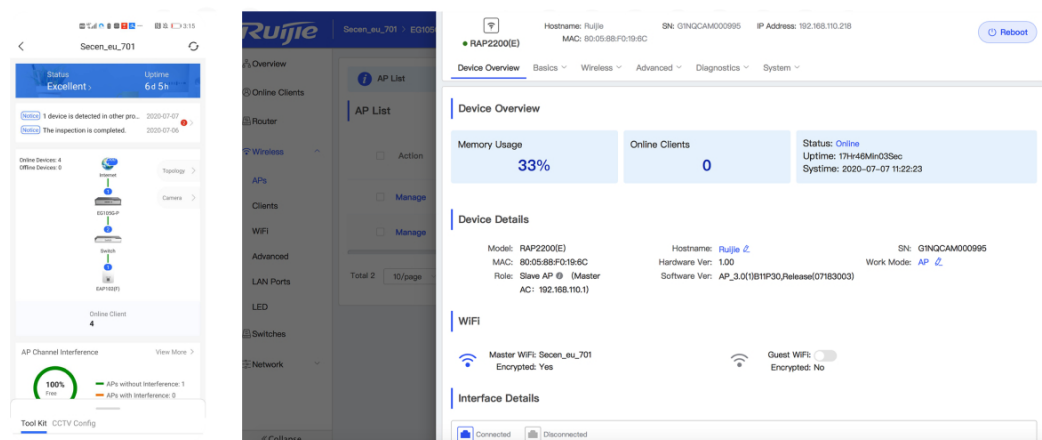
## Industrial Design

The industrial product design, iconic edges and breathing light makes the product more recognizable.

# Management Features

## Multi-End Management

The AP supports management via Ruijie Cloud app, Ruijie Cloud platform, and equipment EWEB management to achieve multi-end local and remote management on PC, Ruijie Cloud app.



## Fast and Smart Configuration

In large-scale complex networks, the configuration of the entire network can be completed by connecting to a single gateway device. There is no need to configure the devices separately, which can greatly reduce the device configuration time.

## Scenario-Based Configuration

Scenario-based configurations can be performed via the web and Ruijie Cloud app, which can greatly reduce the configuration threshold of complex functions, such as visitor isolation solution, flow control solution, etc. Even novices can easily fulfill the diverse and complex requirements of the customers.

# Management Features

## Visualized Operation and Maintenance

The cloud computing network topology can comprehensively present the equipment operating status of the entire network. Through the rich information in the topology, you can quickly get the full picture of the network (network egress status, link status, device status), and quantify the user experience and network quality, so that users can master the information of the entire network.

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## Remote Collaborative Management

Users can perform comprehensive remote operation, management, and maintenance of the equipment in the entire network via the Ruijie Cloud app, Ruijie Cloud platform, etc. They can also share the network to third party for network hosting and collaborative management to operate and maintain the enterprise network more efficiently.

# Management Features

## AI & Big Data Network Optimization

Through artificial intelligence and cloud big data, the AP can perform comprehensive smart network operation, maintenance and optimization, including but not limited to:

1. Automatic identification of new equipment and adding it into the network, automatic system repair such as avoiding conflict of the WAN IP addresses.
2. Smart system optimization such as service-based network policy configuration, RF channel and roaming adjustment.
3. Diagnosis and repair suggestions for more than 30 common network anomalies including DHCP conflicts, abnormal negotiation rates, excessive traffic, AP disconnection and device interference.

## Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Hardware Specifications</b>		
Radio	Dual-stream dual-band	Dual-stream dual-band
Protocol	Concurrent 802.11ax, 802.11ac wave2/wave1, 802.11a/b/g/n	Concurrent 802.11ax, 802.11ac wave2/wave1, 802.11a/b/g/n
Operating Bands	802.11b/g/n/ax : 2.4G ~ 2.4835GHz 802.11a/n/ac/ax : 5G : 5.150 ~ 5.350GHz , 5.725 ~ 5.850GHz (country specific)	802.11b/g/n : 2.4G ~ 2.4835GHz 802.11a/n/ac/ax : 5G : 5.150 ~ 5.350GHz , 5.725 ~ 5.850GHz (country specific)
Antenna	Internal antennas ( 2.4G: 3dBi , 5G: 3dBi )	Internal antennas ( 2.4G: 3dBi , 5G: 3dBi )
Spatial Streams	2.4G 2x2MIMO 5G 2x2MIMO	2.4G 4x4MIMO 5G 4x4MIMO
Max Throughput	Up to 574Mbps at 2.4G Up to 1201Mbps at 5G 1.775Gbp per AP	Up to 800Mbps at 2.4G Up to 2402Mbps at 5G 3.202Gbp per AP

# Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Hardware Specifications</b>		
Modulation	OFDM : BPSK@6/9Mbps , QPSK@12/18Mbps , 16QAM@24Mbps , 64QAM@48/54Mbps	OFDM : BPSK@6/9Mbps , QPSK@12/18Mbps , 16QAM@24Mbps , 64QAM@48/54Mbps
	DSSS : DBPSK@1Mbps , DQPSK@2Mbps , and CCK@5.5/11Mbps	DSSS : DBPSK@1Mbps , DQPSK@2Mbps , and CCK@5.5/11Mbps
	MIMO-OFDM : BPSK , QPSK , 16QAM , 64QAM , 256QAM and 1024QAM	MIMO-OFDM : BPSK , QPSK , 16QAM , 64QAM , 256QAM and 1024QAM
	OFDMA	OFDMA

# Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Hardware Specifications</b>		
Receive Sensitivity	11b : -96dBm ( 1Mbps ) -93dBm ( 5Mbps ) -89dBm ( 11Mbps ) 11a/g : -91dBm ( 6Mbps ) -85dBm ( 24Mbps ) -80dBm ( 36Mbps ) -74dBm ( 54Mbps ) 11n : -90dBm ( MCS0 ) -70dBm ( MCS7 ) -89dBm ( MCS8 ) -68dBm ( MCS15 ) 11ac : 20MHz : -88dBm ( MCS0 ) -63dBm ( MCS9 ) 40MHz : -85dBm ( MCS0 ) -60dBm ( MCS9 ) 80MHz : -85dBm ( MCS0 ) -60dBm ( MCS9 ) Wi-Fi 6 : 80MHz : -82dBm ( MCS0 ) -57dBm ( MCS9 ) -52dBm ( MCS11 )	11b : -96dBm ( 1Mbps ) -93dBm ( 5Mbps ) -89dBm ( 11Mbps ) 11a/g : -91dBm ( 6Mbps ) -85dBm ( 24Mbps ) -80dBm ( 36Mbps ) -74dBm ( 54Mbps ) 11n : -90dBm ( MCS0 ) -70dBm ( MCS7 ) -89dBm ( MCS8 ) -68dBm ( MCS15 ) 11ac : 20MHz : -88dBm ( MCS0 ) -63dBm ( MCS9 ) 40MHz : -85dBm ( MCS0 ) -60dBm ( MCS9 ) 80MHz : -85dBm ( MCS0 ) -60dBm ( MCS9 ) Wi-Fi 6 : 80MHz : -82dBm ( MCS0 ) -57dBm ( MCS9 ) -52dBm ( MCS11 )



## Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Hardware Specifications</b>		
Maximum output power of the transmitter (single stream)	2.4GHz (2.4~2.4835GHz) : 23dBm 5GHz (5.150~5.250GHz,5.725~5.850GHz) : 23dBm ( country-specific , comply with local laws )	2.4GHz (2.4~2.4835GHz) : 23dBm 5GHz (5.150~5.250GHz,5.725~5.850GHz) : 23dBm ( country-specific , comply with local laws )
Adjustable Power	1dBm	1dBm
Dimensions	194mm×194mm×35 mm (excluding mounting kits)	220mm×220mm×35 mm (excluding mounting kits)
Weight	0.56kg (excluding mounting kits)	1.05kg (excluding mounting kits)
Service Ports	2 10/100/1000M Base-T Ethernet ports, PoE/LAN1 port supports PoE	1 10/100/1000M/2.5G Base-T Ethernet ports supports PoE; 1 10/100/1000M Base-T ,Ethernet ports
Management Port	NA	NA

## Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Hardware Specifications</b>		
LED Indicator	Single indicator (green light)	Single indicator (green light)
Power Supply	Local power supply, DC 12V/1.5A (Note: The power adapter is sold as an optional accessory), 802.3at PoE (Warning:802.3af or non-standard POE adapter may cause unknown issues. Please use Ruijie POE+ switch or 802.3at POE adapter as power supplier)	
Power Consumption	≤ 15.3W	≤ 25.4W
Environment	Operating temperature: 0°C ~ 40°C	Operating temperature: 0°C ~ 40°C
	Storage temperature: -40°C ~ 70°C	Storage temperature: -40°C ~ 70°C
	Operating humidity: 5% ~ 95% ( non-condensing )	Operating humidity: 5% ~ 95% ( non-condensing )
	Storage humidity: 5% ~ 95% ( non-condensing )	Storage humidity: 5% ~ 95% ( non-condensing )
Installation	Ceiling/wall-mountable	Ceiling/wall-mountable

## Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Hardware Specifications</b>		
Safety Standard	GB4943, IEC 62368-1	GB4943, IEC 62368-1
EMC Standard	GB9254 , EN301 489 , EN50155 , EN5 0121 , EN55032 , EN 61000 , EN55035	GB9254 , EN301 489 , EN50155 , EN5 0121 , EN55032 , EN 61000 , EN55035
Vibration Standard	IEC61373	IEC61373
Radio Standard	EN300 328, EN301 893	EN300 328, EN301 893
MTBF	>400000H	>400000H

## Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Software Features</b>		
Operating Mode	GB4943, IEC 62368-1	GB4943, IEC 62368-1
EMC Standard	GB9254 , EN301 489 , EN50155 , EN5 0121 , EN55032 , EN 61000 , EN55035	GB9254 , EN301 489 , EN50155 , EN5 0121 , EN55032 , EN 61000 , EN55035
Vibration Standard	IEC61373	IEC61373
Radio Standard	EN300 328, EN301 893	EN300 328, EN301 893
MTBF	>400000H	>400000H

## Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Software Features</b>		
Operating Mode	AP mode and routing mode	AP mode and routing mode
	Maximum number of clients: 512	Maximum number of clients: 512
	Recommended number of clients: 100	Recommended number of clients: 120
	Up to 8 SSIDs	Up to 8 SSIDs
	Support SSID hiding Configuring the authentication mode, encryption mechanism, and VLAN attributes for each SSID	Support SSID hiding Configuring the authentication mode, encryption mechanism, and VLAN attributes for each SSID
	SSID-based and radio-based STA limit	SSID-based and radio-based STA limit
	Support Layer 2 user isolation	Support Layer 2 user isolation
Roaming	Support Layer 2 and Layer 3 roaming	Support Layer 2 and Layer 3 roaming

## Technical Specifications

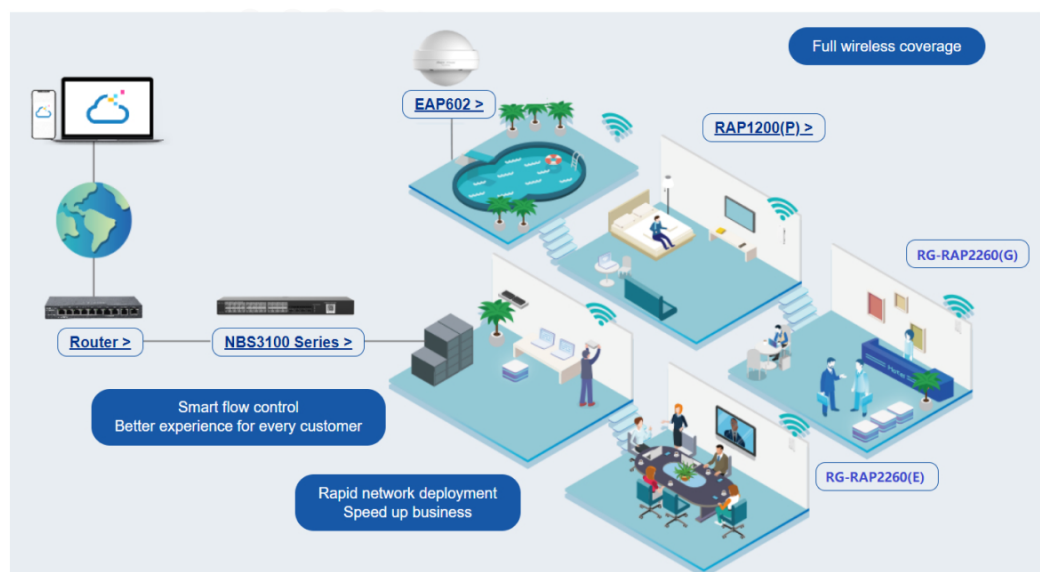
Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Software Features</b>		
Security	Support PSK authentication	Support PSK authentication
	Support static blacklist and whitelist	Support static blacklist and whitelist
	Support WPA (TKIP), WPA2 (AES), and WPA-PSK data encryption	Support WPA (TKIP), WPA2 (AES), and WPA-PSK data encryption
	Support Black List / White List : Maximum 256 rules per SSID Maximum 1024 rules per AP	Support Black List / White List : Maximum 256 rules per SSID Maximum 1024 rules per AP
Routing	Support static IP address, DHCP, PPPoE Dial Up	Support static IP address, DHCP, PPPoE Dial Up

## Technical Specifications

Model	RG-RAP2260(G)	RG-RAP2260(E)
<b>Software Features</b>		
Management and maintenance	<p>Support unified networking of all network equipment.</p> <p>Support local or remote management with Ruijie Cloud app.</p> <p>Support local management with web.</p> <p>Support remote management with Ruijie Cloud platform.</p>	<p>Support unified networking of all network equipment.</p> <p>Support local or remote management with Ruijie Cloud app.</p> <p>Support local management with web.</p> <p>Support remote management with Ruijie Cloud platform.</p>
Platform management features	Automatic RF adjustment via the platform	Automatic RF adjustment via the platform
	Unified configuration via the platform	Unified configuration via the platform
	Unified monitoring via the platform	Unified monitoring via the platform

## Typical Applications

RG-RAP2260 Series is an ideal choice for scenarios with simple building structure, no special obstructions, and relatively concentrated users, such as conference rooms, libraries, classrooms, bars, leisure centers, etc. The AP can be flexibly implemented according to different environments, and provides user access for up to maximum 512 terminals per AP, recommended 100 terminals for RAP2260(G) and 120 terminals for RAP2260(E).





## Ordering Information

Model	Description
RG-RAP2260(G)	AX1800 Dual Band Outdoor Wi-Fi6 Access Point, IP68 waterproof, 1201Mbps at 5GHz + 574Mbps at 2.4GHz, 1 10/100/1000base-t Ethernet and 1 SFP uplink port, Internal omnidirectional antennas , support 802.11a/b/g/n/ac Wave1/acWave2/ax, Local power supply, DC 12V/1.5A (Note: The power adapter is sold as an optional accessory), 802.3at PoE (Warning: 802.3af or non-standard POE adapter may cause unknown issues. Please use Ruijie POE+ switch or 802.3at POE adapter as power supplier)
RG-RAP2260(E)	AX3200 Dual Band Ceiling Mount Wi-Fi6 Access Point, 2402Mbps at 5GHz + 800Mbps at 2.4GHz, 1 * 2.5 Gigabit Ethernet port and 1* 1 Gigabit Ethernet port, Internal Omni directional Antennas, support 802.11a/b/g/n/ac Wave1/acWave2/ax, Local power supply, DC 12V/1.5A (Note: The power adapter is sold as an optional accessory), 802.3at PoE (Warning: 802.3af or non-standard POE adapter may cause unknown issues. Please use Ruijie POE+ switch or 802.3at POE adapter as power supplier)



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