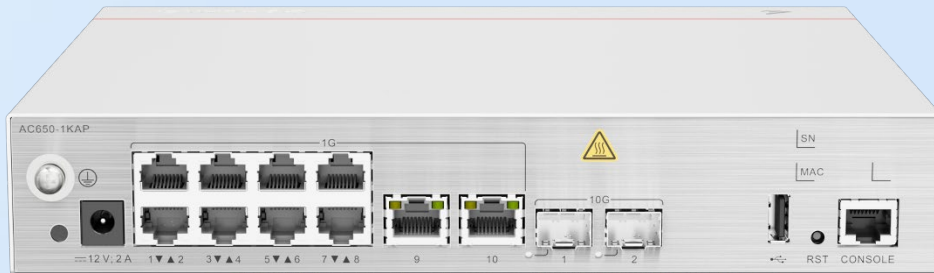


HUAWEI eKitEngine AC650-1KAP Wireless Access Controller Datasheet



Wired and Wireless Integrated Access Controller
Make SME Network Easier and Smarter

Product Overview

The eKitEngine AC650-1KAP is a small-capacity box wireless access controller (AC) for small and medium enterprises. It can manage up to 1024 access points (APs) and integrates the GE Ethernet switch function, achieving integrated access for wired and wireless users. The WLAN AC features high scalability and offers users considerable flexibility in configuring the number of managed APs. When used with Huawei's full series 802.11ax, 802.11ac, 802.11n and 802.11be APs, the eKitEngine AC650-1KAP can be used to construct small and medium campus networks, enterprise office networks, wireless Metropolitan Area Networks (MANs), and hotspot coverage networks

Main Product Features

Large-capacity and high-performance design

- The eKitEngine AC650-1KAP can manage up to 1024 APs, meeting requirements of small and medium campuses.
- Provides 2 x 10GE optical interfaces and 10 x GE electrical interfaces, supporting up to 12 Gbit/s forwarding performance.

SmartRadio for air interface optimization

- Load balancing during smart roaming: The load balancing algorithm can work during smart roaming for load balancing detection among APs on the network after STA roaming to adjust the STA load on each AP, improving network stability.
- Intelligent DFA technology: The dynamic frequency assignment (DFA) algorithm is used to automatically detect adjacent-channel and co-channel interference, and identify any 2.4 GHz redundant radio. Through automatic inter-AP negotiation, the redundant radio is automatically switched to another mode (dual-5G AP models support 2.4G-to-5G switchover) or is disabled to reduce 2.4 GHz co-channel interference and increase the system capacity.
- Intelligent conflict optimization technology: The dynamic enhanced distributed channel access (EDCA) and airtime scheduling algorithms are used to schedule the channel occupation time and service priority of each user. This ensures that each user is assigned relatively equal time for using channel resources and user services are scheduled in an orderly manner, improving service processing efficiency and user experience.

Flexible networking

- The WLAN AC can be deployed in inline, bypass, bridge, and Mesh network modes, and supports both centralized and local forwarding.
- Intelligent DFA technology: The dynamic frequency assignment (DFA) algorithm is used to automatically detect adjacent-channel and co-channel interference, and identify any 2.4 GHz redundant radio. Through automatic inter-AP negotiation, the redundant radio is automatically switched to another mode (dual-5G AP models support 2.4G-to-5G switchover) or is disabled to reduce 2.4 GHz co-channel interference and increase the system capacity.
- The WLAN AC is compatible with Huawei full-series 802.11n, 802.11ac, 802.11ax and 802.11be APs and supports hybrid networking of 802.11n, 802.11ac, 802.11ax and 802.11be APs for simple scalability.

Built-in application identification server

- Supports Layer 4 to Layer 7 application identification and can identify over 6000 applications, including common office applications and P2P download applications, such as Lync, FaceTime, YouTube, and Facebook.
- Supports application-based policy control technologies, including traffic blocking, traffic limit, and priority adjustment policies.
- Supports automatic application expansion in the application signature database.

Comprehensive reliability design

- Supports AC 1+1 HSB, and N+1 backup, ensuring uninterrupted services.
- Supports port backup based on the Link Aggregation Control Protocol (LACP) or Multiple Spanning Tree Protocol (MSTP).
- Supports WAN authentication escape between APs and WLAN ACs. In local forwarding mode, this feature retains the online state of existing STAs and allows access of new STAs when APs are disconnected from WLAN ACs, ensuring service continuity.

Built-in visualized network management platform

The eKitEngine AC650-1KAP has a built-in web system that is easy to configure and provides comprehensive monitoring and intelligent diagnosis.

Health-centric one-page monitoring, visualized KPIs

One page integrates the summary and real-time statistics. KPIs are displayed in graphs, including user performance, radio performance, and AP performance, enabling users to extract useful information from the massive amounts of monitored data, while also knowing the device and network status instantly.

Profile-based configuration by AP group simplifies configuration procedure and improves efficiency

- The web system supports AP group-centric configuration and automatically selects the common parameters for users, meaning that users do not need to pre-configure the common parameters, simplifying the configuration procedure.
- If two AP groups have small configuration differences, users can copy the configurations of one AP group to the other. This improves configuration efficiency because users only need to modify the original configurations, not create entirely new ones each time.

One-click diagnosis solves 80% of common network problems

The web system supports real-time and periodic one-click intelligent diagnosis from the dimensions of users, APs, and WLAN ACs, and provides feasible suggestions for troubleshooting the faults.

Product Specifications

Physical Specifications

Item	Description
Installation Type	Rack,Desk,Wall
Dimensions without packaging (H x W x D) [mm(in.)]	Basic: 43.6 mm x 250 mm x 210 mm (1.72 in. x 9.84 in. x 8.27 in.) Maximum: 43.6 mm x 250 mm x 215 mm (1.72 in. x 9.84 in. x 8.46 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 465 mm x 335 mm (4.33 in. x 18.31 in. x 13.19 in.)
Interface type	2 x 10G (SFP+), 10 x GE, 1 x Console, 1 x USB
Maximum power consumption	25.06W
Weight without packaging [kg(lb)]	1.9kg
Weight with packaging [kg(lb)]	2.55 kg (5.62 lb)
Operating temperature and altitude	-60 m to +1800 m: 0°C to 45°C
Relative humidity	1800 m to 5000 m: Temperature decreases by 1°C every time the altitude increases 220 m.
Power supply mode	DC power adapter

Performance Specifications

Item	Description
Number of managed APs	1024 <i>NOTE</i> <i>The RUs managed by the WLAN AC do not occupy the AC's license resources. However, the total number of managed common APs and RUs cannot exceed the upper limit allowed by the AC.</i>
Number of access users	6144 <i>NOTE</i> <i>The maximum number of access users varies depending on the authentication mode.</i>

Number of dynamic MAC address entries	16384
Forwarding capability	12Gbps <i>NOTE</i> <i>The value is the maximum forwarding capability supported by the device. The actual performance varies with the enabled functions of the device and the network environment. For details, see the product specifications.</i>
Number of VLANs	4096
Route management	IPv4 FIB table specification (number of IPv4 routes on a device): 256 IPv6 FIB table specification (number of IPv6 routes on a device): 256
Number of ARP entries on the control plane	15k dynamic entries (1k=1024) + 1k static entries (1k=1024)
Local accounts	1024
Number of DHCP IP address pools	64 IP address pools, each of which contains a maximum of 8192 IP addresses
Number of local accounts	1024

Product Software Features

Switching and forwarding features

Item		Description
Ethernet features	Ethernet	<p>Operating modes of full duplex, half duplex, and auto-negotiation</p> <p>Rates of an Ethernet interface: 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, and auto- negotiation</p> <ul style="list-style-type: none"> • Flow control on interfaces • Jumbo frames • Link aggregation

		<ul style="list-style-type: none"> • Load balancing among links of a trunk • Interface isolation and forwarding restriction • Broadcast storm suppression
	VLAN	<p>Access modes of access, trunk, and hybrid</p> <p>Default VLAN</p> <p>VLAN pool</p>
	MAC	<p>Automatic learning and aging of MAC addresses</p> <p>Static, dynamic, and blackhole MAC address entries</p> <p>Packet filtering based on source MAC addresses</p> <p>Interface-based MAC learning limiting</p>
	ARP	<p>Static and dynamic ARP entries</p> <p>ARP in a VLAN</p> <p>Aging of ARP entries</p>
	LLDP	LLDP
Ethernet loop protection	MSTP	<p>STP</p> <p>RSTP</p> <p>MSTP</p> <p>BPDU protection, root protection, and loop protection</p> <p>Partitioned STP</p>
IPv4 forwarding	IPv4 features	<p>ARP and RARP</p> <p>ARP proxy</p> <p>Auto-detection</p> <p>NAT</p>

		Bonjour protocol
	Unicast routing features	Static route RIP-1 and RIP-2 OSPF BGP IS-IS Routing policies and policy-based routing URPF check DHCP server and relay DHCP snooping
	Multicast routing features	IGMPv1, IGMPv2, and IGMPv3 PIM-SM Multicast routing policies RPF
IPv6 forwarding	IPv6 features	ND protocol
	Unicast routing features	Static route RIPng OSPFv3 BGP4+ IS-IS IPv6 DHCPv6 DHCPv6 snooping
	Multicast routing features	MLD MLD snooping
Device reliability	BFD	BFD

Layer 2 multicast features	Layer 2 multicast	<ul style="list-style-type: none"> IGMP snooping Prompt leave Multicast traffic control Inter-VLAN multicast replication
Ethernet OAM	EFM OAM	<ul style="list-style-type: none"> Neighbor discovery Link monitoring Fault notification Remote loopback
QoS features	Traffic classification	Traffic classification based on the combination of the L2 protocol header, IP 5-tuple, and 802.1p priority
	Action	<ul style="list-style-type: none"> Access control after traffic classification Traffic policing based on traffic classification Re-marking packets based on traffic classifiers Class-based packet queuing Associating traffic classifiers with traffic behaviors
	Queue scheduling	<ul style="list-style-type: none"> PQ scheduling DRR scheduling PQ+DRR scheduling WRR scheduling PQ+WRR scheduling
	Congestion avoidance	<ul style="list-style-type: none"> SRED WRED
	Application control	Smart Application Control (SAC)
Configuration and maintenance	Terminal service	<ul style="list-style-type: none"> Configurations using command lines Error message and help information in English Login through console and Telnet terminals

		Send function and data communications between terminal users
	File system	File systems Directory and file management File uploading and downloading using FTP and TFTP
	Debugging and maintenance	Unified management over logs, alarms, and debugging information Electronic labels User operation logs Detailed debugging information for network fault diagnosis Network test tools such as traceroute and ping commands Intelligent diagnosis Interface mirroring and flow mirroring
	Version upgrade	Device software loading and online software loading BIOS online upgrade In-service patching
Security and management	Network management	ICMP-based ping and traceroute SNMPv1, SNMPv2c, and SNMPv3 Standard MIB RMON NetStream Packet Conservation Algorithm for Internet 2.0 (iPCA 2.0), flow detection based on applications, 5-tuple, and flows
	System security	Different user levels for commands, preventing unauthorized users from accessing device SSHv2.0 RADIUS and HWTACACS authentication for login users ACL filtering DHCP packet filtering (with the Option 82 field)

	<p>Local attack defense function that can protect the CPU and ensure that the CPU can process services</p> <p>Defense against control packet attacks</p> <p>Defenses against attacks such as source address spoofing, Land, SYN flood (TCP SYN), Smurf, ping flood (ICMP echo), Teardrop, broadcast flood, and Ping of Death attacks</p> <p>IPSec</p> <p>URL filtering</p> <p>Antivirus</p> <p>Intrusion prevention</p>
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Wireless networking capabilities

Item	Description
Networking between APs and WLAN ACs	<p>APs and WLAN ACs can be connected through a Layer 2 or Layer 3 network.</p> <p>APs can be directly connected to a WLAN AC.</p> <p>APs are deployed on a private network, while WLAN ACs are deployed on the public network to implement NAT traversal.</p> <p>WLAN ACs can be used for Layer 2 bridge forwarding or Layer 3 routing.</p> <p>WAN authentication escape is supported between APs and WLAN ACs.</p> <p>In local forwarding mode, this feature retains the online state of existing STAs and allows access of new STAs when APs are disconnected from WLAN ACs, ensuring service continuity.</p>
Forwarding mode	<p>Direct forwarding (distributed forwarding or local forwarding)</p> <p>Tunnel forwarding (centralized forwarding)</p> <p>Centralized authentication and distributed forwarding</p> <p>In direct forwarding mode, user authentication packets support tunnel forwarding.</p> <p>Soft GRE forwarding.</p> <p>Tunnel forwarding + EoGRE tunnel</p>
WLAN AC discovery	<p>An AP can obtain the device's IP address in any of the following ways:</p> <ul style="list-style-type: none"> • Static configuration

	<ul style="list-style-type: none"> • DHCP • DNS <p>The WLAN AC uses DHCP or DHCPv6 to allocate IP addresses to APs. DHCP or DHCPv6 relay is supported.</p> <p>On a Layer 2 network, APs can discover the WLAN AC by sending broadcast CAPWAP packets.</p>
Wireless networking mode	<p>WDS bridging:</p> <ul style="list-style-type: none"> • Point-to-point (P2P) wireless bridging • Point-to-multipoint (P2MP) wireless bridging • Automatic topology detection and loop prevention (STP) Wireless mesh network • Access authentication for mesh devices • Mesh routing algorithm • Go-online without configuration • Mesh client mode
CAPWAP tunnel	<p>Centralized CAPWAP</p> <p>CAPWAP control tunnel and data tunnel (optional)</p> <p>CAPWAP tunnel forwarding and direct forwarding in an extended service set (ESS)</p> <p>Datagram Transport Layer Security (DTLS) encryption, which is enabled by default for the CAPWAP control tunnel</p> <p>Heartbeat detection and tunnel reconnection</p>
Active and standby WLAN ACs	<p>Enables and disables the switchback function. Supports load balancing.</p> <p>Supports 1+1 hot backup.</p> <p><i>NOTE</i></p> <p><i>In 1+1 VRRP HSB mode, WLAN ACs share one virtual IP address, simplifying the network topology.</i></p> <p>Supports N+1 backup.</p> <p>Supports wireless configuration synchronization between WLAN ACs.</p>

AP management

Item	Description
AP access control	<p>Displays MAC addresses or SNs of APs in the whitelist.</p> <p>Adds a single AP or multiple APs (by specifying a range of MAC addresses or SNs) to the whitelist.</p> <p>Automatically discovering and manually confirming APs. Automatically discovering APs without manually confirming them.</p>
AP region management	<p>Supports three AP region deployment modes:</p> <ul style="list-style-type: none">• Distributed deployment: APs are deployed independently. An AP is equivalent to a region and does not interfere with other APs. APs work at the maximum power and do not perform radio calibration.• Common deployment: APs are loosely deployed. The transmit power of each radio is less than 50% of the maximum transmit power.• Centralized deployment: APs are densely deployed. The transmit power of each radio is less than 25% of the maximum transmit power. <p>Specifies the default region to which automatically discovered APs are added.</p>
AP configuration template management	<p>The default AP configuration template can be specified for automatic AP onboarding.</p>
AP type management	<p>Manages AP attributes including the number of interfaces, AP types, number of radios, radio types, maximum number of virtual access points (VAPs), maximum number of associated users, and radio gain (for APs deployed indoors).</p> <p>Provides default AP types.</p>
Network topology management	<p>Supports LLDP topology detection.</p>
AP working mode management	<p>Supports AP working mode switchover. The AP working mode can be switched to the Fat or cloud mode on the AC.</p>

Radio management

Item	Description
Radio profile management	<p>The following parameters can be configured in a radio profile:</p> <ul style="list-style-type: none"> • Radio working mode and rate • Automatic or manual channel and power adjustment mode • Radio calibration interval • The radio type can be set to 802.11b, 802.11b/g, 802.11b/g/n, 802.11g, 802.11n, 802.11g/n, 802.11a, 802.11a/n, 802.11ac, 802.11ax, or 802.11be. <p>You can bind a radio to a specified radio profile. Supports MU-MIMO.</p>
Unified static configuration of parameters	<p>Radio parameters such as the channel and power of each radio are configured on the WLAN AC and then delivered to APs.</p>
Dynamic management	<p>APs can automatically select working channels and power when they go online.</p> <p>In an AP region, APs automatically adjust working channels and power in the event of signal interference:</p> <ul style="list-style-type: none"> • Partial calibration: The optimal working channel and power of a specified AP can be adjusted. • Global calibration: The optimal working channels and power of all the APs in a specified region can be adjusted. <p>When an AP is removed or goes offline, the WLAN AC increases the power of neighboring APs to compensate for the coverage hole.</p> <p>Automatic selection and calibration of radio parameters in AP regions are supported.</p>
Enhanced service capabilities	<p>Band steering: Enables terminals to preferentially access the 5G frequency band, achieving load balancing between the 2.4G and 5G frequency bands.</p> <p>Smart roaming: Enables sticky terminals to roam to APs with better signals.</p> <ul style="list-style-type: none"> • 802.11k and 802.11v smart roaming • 802.11r fast roaming (≤ 50 ms)

WLAN service management

Item	Description
ESS management	<p>Allows you to enable SSID broadcast, set the maximum number of access users, and set the association aging time in an ESS.</p> <p>Isolates APs at Layer 2 in an ESS. Maps an ESS to a service VLAN.</p> <p>Associates an ESS with a security profile or a QoS profile. Enables IGMP for APs in an ESS.</p> <p>Supports Chinese SSIDs.</p>
VAP-based service management	<p>Adds multiple VAPs at a time by binding radios to ESSs.</p> <p>Displays information about a single VAP, VAPs with a specified ESS, or all VAPs.</p> <p>Supports configuration of offline APs.</p> <p>Creates VAPs according to batch delivered service provisioning rules in automatic AP discovery mode.</p>
Service provisioning management	<p>Supports service provisioning rules configured for a specified radio of a specified AP type.</p> <p>Adds automatically discovered APs to the default AP region. The default AP region is configurable.</p> <p>Applies a service provisioning rule to a region to enable APs in the region to go online.</p>
Multicast service management	<p>Supports IGMP snooping.</p> <p>Supports IGMP proxy.</p>
Load balancing	<p>Performs load balancing among radios in a load balancing group.</p> <ul style="list-style-type: none">• Supports two load balancing modes:<ul style="list-style-type: none">– Based on the number of STAs connected to each radio– Based on the traffic volume on each radio
Bring Your Own Device (BYOD)	<p>Identifies device types according to the OUI in the MAC address.</p> <p>Identifies device types according to the user agent (UA) field in an HTTP packet.</p> <p>Identifies device types according to DHCP Option information.</p>

	Carries device type information in RADIUS authentication and accounting packets.
Location services	Locates AeroScout and Ekahau tags. Locates Wi-Fi terminals. Locates Bluetooth terminals. Locates Bluetooth tags.
Spectrum analysis	Identifies the following interference sources: Bluetooth, microwave ovens, cordless phones, ZigBee, game controller, 2.4 GHz/5 GHz wireless audio and video devices, and baby monitors. Works with the eSight to display spectrums of interference sources.
Rogue device monitoring	Supports WIDS/WIPS attack detection to monitor, identify, prevent, and take countermeasures against rogue devices and implement refined management and control.
Hotspot2.0	Supports a Hotspot2.0 network.
Navi WLAN AC	Supports remote STA access on the Navi WLAN AC.
Centralized license control	Supports a license server as the centralized AP license control point. Allows a license server to manage license clients. Supports license synchronization between a license server and clients.

WLAN user management

Item	Description
Address allocation of wireless users	Functions as a DHCP server to assign IP addresses to wireless users.
WLAN user management	Supports user blacklist and whitelist. Controls the number of access users: <ul style="list-style-type: none"> • Based on APs • Based on SSIDs Logs out users in any of the following ways:

	<ul style="list-style-type: none"> • Using RADIUS DM messages • Using commands <p>Supports various methods to view information:</p> <ul style="list-style-type: none"> • Allows you to view the user status by specifying the user MAC address, AP ID, radio ID, or WLAN ID. • Displays the number of online users in an ESS, AP, or radio. • Collects packet statistics on air interface based on user.
WLAN user roaming	<p>Supports intra-AC Layer 2 roaming.</p> <p><i>NOTE</i></p> <p><i>Users can roam between APs connected to different physical ports on a WLAN AC.</i></p> <p>Supports inter-VLAN Layer 3 roaming on a WLAN AC. Supports roaming between WLAN ACs.</p> <p>Supports fast key negotiation in 802.1X authentication.</p> <p>Authenticates users who request to reassociate with the WLAN AC and rejects the requests of unauthorized users.</p> <p>Delays clearing user information after a user goes offline so that the user can rapidly go online again.</p>
User group management	<p>Supports ACLs.</p> <p>Supports user isolation:</p> <ul style="list-style-type: none"> • Inter-group isolation • Intra-group isolation

WLAN security

Item	Description
WLAN security profile management	Manages authentication and encryption modes using WLAN security profiles.
Authentication modes	<p>Open system authentication with no encryption WEP authentication/encryption WPA/WPA2/WPA3 authentication and encryption:</p> <ul style="list-style-type: none"> • WPA/WPA2-PSK+TKIP • WPA/WPA2-PSK+CCMP

	<ul style="list-style-type: none"> • WPA/WPA2-802.1X+TKIP • WPA/WPA2-802.1X+CCMP • WPA3-802.1X+GCMP512 • WPA/WPA2-PSK+TKIP-CCMP • WPA/WPA2-802.1X+TKIP-CCMP <p>WPA/WPA2-PPSK authentication and encryption</p> <p>WPA3-SAE+CCMP authentication and encryption</p> <p>WAPI authentication and encryption:</p> <ul style="list-style-type: none"> • Supports centralized WAPI authentication. • Supports three-certificate WAPI authentication, which is compatible with traditional two-certificate authentication. • Issues a certificate file together with a private key. <p>Allows users to use MAC addresses as accounts for authentication by the RADIUS server.</p> <p>Portal authentication:</p> <ul style="list-style-type: none"> • Authentication through an external Portal server • Built-in Portal authentication and authentication page customization 802.1X authentication: <ul style="list-style-type: none"> • Authentication through an external 802.1X server. • Built-in 802.1X authentication.
Combined authentication	<p>Combined MAC authentication:</p> <ul style="list-style-type: none"> • PSK+MAC authentication <p>MAC+portal authentication:</p> <ul style="list-style-type: none"> • MAC authentication is used first. When MAC authentication fails, portal authentication is used.
AAA	<p>Local authentication/local accounts (MAC addresses and accounts) RADIUS authentication</p> <p>Multiple authentication servers:</p> <ul style="list-style-type: none"> • Supports backup authentication servers. • Specifies authentication servers based on the account. • Configures authentication servers based on the account. • Binds user accounts to SSIDs.

Security isolation	Port-based isolation User group-based isolation
WIDS	Rogue device scan, identification, defense, and countermeasures, which includes dynamic blacklist configuration and detection of rogue APs, STAs, and network attacks.
Authority control	ACL limit based on the following: Port User group User
Other security features	SSID hiding IP source guard: Configures IP and MAC binding entries statically. Generates IP and MAC binding entries dynamically.

WLAN QoS

Item	Description
WMM profile management	Enables or disables Wi-Fi Multimedia (WMM). Allows a WMM profile to be applied to radios of multiple APs.
Traffic profile management	Manages traffic from APs and maps packet priorities according to traffic profiles. Applies a QoS policy to each ESS by binding a traffic profile to each ESS.
AC traffic control	Manages QoS profiles. Uses ACLs to perform traffic classification. Limits incoming and outgoing traffic rates for each user based on inbound and outbound CAR parameters. Limits the traffic rate based on ESSs or VAPs.
AP traffic control	Controls traffic of multiple users and allows users to share bandwidth. Limits the rate of a specified VAP.

Packet priority configuration	Sets the QoS priority (IP precedence or DSCP priority) for CAPWAP control channels. Sets the QoS priority for CAPWAP data channels: <ul style="list-style-type: none">• Allows you to specify the CAPWAP header priority.• Maps 802.1p priorities of user packets to ToS priorities of tunnel packets.
Airtime fair scheduling	Allocates equal time to users for occupying the channel, which improves users' Internet access experience.

More Information

For more information about Huawei eKitEngine switches, visit <https://ekit.huawei.com/> or contact Huawei's local sales office. Alternatively, you can contact us through one of the following methods:

- Global service hotline: <http://e.huawei.com/en/service-hotline>
- Enterprise technical support website: <http://support.huawei.com/enterprise>
- Sending an email to the customer service mailbox: support_e@huawei.com

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