

FortiWLC Compatibility Matrices

Release 8.5.2

FORTINET DOCUMENT LIBRARY

<http://docs.fortinet.com>

FORTINET VIDEO GUIDE

<http://video.fortinet.com>

FORTINET BLOG

<https://blog.fortinet.com>

CUSTOMER SERVICE & SUPPORT

<https://support.fortinet.com>

FORTINET TRAINING & CERTIFICATION PROGRAM

<https://www.fortinet.com/support-and-training/training.html>

NSE INSTITUTE

<https://training.fortinet.com>

FORTIGUARD CENTER

<http://www.fortiguard.com>

END USER LICENSE AGREEMENT

<http://www.fortinet.com/doc/legal/EULA.pdf>

FEEDBACK

[Email: techdocs@fortinet.com](mailto:techdocs@fortinet.com)



This document lists the following hardware and software compatibility matrices for FortiWLC.

- *Hardware (Access Points and Controllers) Compatibility Matrix*
- *Hardware - Feature Compatibility Matrix*
- *FortiWLC-1000D/3000D - Maximum Value Limit*
- *N+1 - Hardware/Virtual Controllers Compatibility Matrix*
- *VCell Roaming - Access Points Compatibility Matrix*
- *FortiWLC - Network Manager Compatibility Matrix*
- *Clients and Encryption Keys*



Hardware (Access Points and Controllers) Compatibility Matrix

	AP Model	FortiWLC Versions													
		6.0.0	6.1-0	6.1-1	6.1-3	7.0.0	8.0.0	8.1.0	8.2.0	8.3.0	8.3.3	8.4.0	8.5.0	8.5.1	8.5.2
Access Points	AP110	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP122	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP300 i/e	x	✓	✓	✓	✓	x	x	x	x	x	x	x	x	x
	AP332	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP433	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP822	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP832	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP1010i/e	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP1014i	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AP1020i/e	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	OAP433	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	OAP832	x	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PSM3x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FAP-U421EV	x	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓	✓
	FAP-U423EV	x	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓	✓
	FAP-U321EV	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
	FAP-U323EV	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
	FAP-U422EV	x	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓
	FAP-U221EV	x	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓
	FAP-U223EV	x	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓
	FAP-U24JEV	x	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓
	FAP-U431F	x	x	x	x	x	x	x	x	x	x	x	x	✓	✓
	FAP-U433F	x	x	x	x	x	x	x	x	x	x	x	x	✓	✓

Hardware (Access Points and Controllers) Compatibility Matrix

	Controller Model	FortiWLC Versions													
		6.0.0	6.1-0	6.1-1	6.1-3	7.0.0	8.0.0	8.1.0	8.2.0	8.3.0	8.3.3	8.4.0	8.5.0	8.5.1	8.5.2
Controllers	MC1500	✓	✓	✓	x	x	x	x	x	x	x	x	x	x	x
	MC1550	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MC3200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MC5000	✓	✓	✓	x	x	x	x			x	x	x	x	x
	MC4200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MC6000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MC1500 -VE	✓	✓	✓				x			x	x	x	x	x
	MC1550-VE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
	MC3200-VE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
	MC4200-VE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
	FortiWLC-50D	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓
	FortiWLC -200D	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓
	FortiWLC -500D	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓
	FortiWLC -1000D	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓
	FortiWLC -3000D	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓
	FWC- VM-50	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
	FWC –VM-200	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
	FWC –VM-500	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
	FWC –VM-1000	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
	FWC-VM-3000	x	x	x	x	x	x	x	x	x	✓	✓	✓	✓	✓

FortiWLC 8.5.2 Hardware - Feature Compatibility Matrix

Feature	Dataplane	AP433	AP1000	AP332	AP122	AP822	AP832	OAP832	FAP-U42xEV	FAP-U422EV (outdoor)	FAP-U32xEV	FAP-U22xEV	FAP-U24JEV	FAP-U43xF	MC/WLC	Virtual Controllers	FortiWLC - 1000D/3000D
Vcell	Both	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
Vport	Both	✓	x	x	x	x	x	x	x	x	x	x	x	x	✓	✓	✓
Mesh****	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓	✓
Mesh Plug and Play	Tunnel	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓	✓
5 hop mesh	Tunnel	x	x	x	✓	✓	✓	✓	✓	✓	✓	x	x	✓	✓	✓	✓
AeroScout	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rogue scan	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DFS	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DFS Fallback Option	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Silent Client Polling	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
Wired client on uplink port with Mesh	Tunnel	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	x	✓	✓	✓
Wired client support (with 802.1x,CP,VLAN)	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓	✓	✓
11w	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11k/r	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Airtime fairness	Both	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remote Radius	Bridge	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
Service Connect	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Captive portal (Internal/External) - AP in L2	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Captive portal (Internal/External) - AP in L3**	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CP By-pass on MAC filtering**	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Captive Portal Exemptions	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Domain whitelisting for Oauth with MCT	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VLAN Mesh (trunking over mesh)	Tunnel	x	x	x	x	✓	✓	✓	✓	✓	✓	x	x	x	✓	✓	✓
IPV6 Client Support **	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
802.11 d support	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SpectraLink Support	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tx Beamforming	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STBC	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓	✓
Probe response threshold	Both	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Time Based ESS Profiles	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Band Steering	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SSID Broadcast	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
APSD	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LLDP power negotioation	Both	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LACP	Both	x	x	x	x	✓	✓	✓	✓	✓	✓	x	x	✓	x	x	x
AP Packet Capture	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dynamic VLAN**	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Static VLAN**	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VLAN Pooling	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multicast/Broadcast Suppression	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Feature	Dataplane	AP433	AP1000	AP332	AP122	AP822	AP832	OAP832	FAP-U42xEV	FAP-U422EV (outdoor)	FAP-U32xEV	FAP-U22xEV	FAP-U24JEV	FAP-U43xF	MC/WLC	Virtual Controllers	FortiWLC - 1000D/3000D
Bluetooth driver/location API	Both	x	x	x	x	x	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sontior tags (Location API)	Both	x	x	x	x	x	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓
AP survivability Phase-1 (No disconnection)	Bridge	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AP survivability Phase-2 (backup ESS support)	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ARRP	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAC Filtering per ESS	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Restricted SSID	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Appending SSID to called_Station_ID (802.1x,MAC filter)	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Captive Network Assistant Bypass	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GRE Tunneling	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QoS (rules to Allow/Deny)***	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
QoS (rules for ratelimiting DSCP Marking)	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
QoS - Dynamic Flow detection for H.323/SIP	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Support for Change of Authorization(CoA) - Disconnect including MAC authentication	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Support for Change of Authorization(CoA) - FilterID including MAC authentication	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCP Relay	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Proxy ARP **	Tunnel/Bridge	x	x	x	x	x	x	x	✓	✓	x	x	x	x	✓	✓	✓
Rouge AP Detection/Mitigation	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wireless Security Features 1. 802.1x 2. WPA2 3. WPA2 PSK 4. Tunnel termination PEAP/TTLS 5. PMK Caching 6. Filter ID configuration 7. Firewall Filter ID	Both(except for Static/RADIUS assigned filterID which only works in tunneled mode)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VPN AP	Both	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
V-Cell load balancing	Both	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
Multicast to Unicast conversion	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RAC	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
DPI statistics	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	x	x	✓	✓	✓	✓
DPI Policies	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	x	x	✓	✓	✓	✓
DPI Application throttling	Tunnel	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DSCP Marking (application specific)	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fortipresence	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLE Locationing	Both	x	x	x	✓	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓

Feature	Dataplane	AP433	AP1000	AP332	AP122	AP822	AP832	OAP832	FAP- U42xEV	FAP- U422EV (outdoor)	FAP- U32xEV	FAP- U22xEV	FAP- U24JEV	FAP- U43xF	MC/WLC	Virtual Controllers	FortiWLC - 1000D/3000D
Ibeacons	Both	x	x	x	✓	✓	✓	x	x	✓	✓	✓	✓	✓	✓	✓	✓
Spectrum Analysis	NA	x	✓	✓	x	x	✓	x	✓	✓	✓	✓	✓	x	✓	✓	✓
SAM	Tunnel	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
Site Survey	NA	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AP Redirection	NA													✓	✓	✓	✓
SNMP Support (Read Only)	NA													✓	✓	✓	✓
Certificate Management	NA													✓	✓	✓	✓
User Management - Authentication via 1. RADIUS 2. TACACS+ 3. Local User	NA														✓	✓	✓
Syslog support	NA														✓	✓	✓
Upgrading Software from CLI and GUI	NA														✓	✓	✓
Patch Management	NA														✓	✓	✓
Core dump collection	NA														✓	✓	✓
Guest User Management	NA														✓	✓	✓
Multiple IP support	NA														✓	✓	✓
Kernel Crash dump support	NA														✓	✓	✓
Management Over VLAN	NA														✓	✓	✓
Internal DHCP Server	NA														✓	✓	✓
Nplus1 support	NA														✓	✓	✓
VM Controller image	NA														✓	✓	✓
DSCP Marking (management pkts)	NA														✓	✓	✓
Dual Image Support	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Station Event Log (MELF)	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flash logging	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
802.3af - Wave 2 APs	NA	x	x	x	x	x	x	x	✓	x	✓	✓	✓	x	✓	✓	✓
MU-MIMO	both	x	x	x	x	x	x	x	✓	✓	✓	x	x	✓	✓	✓	✓
PoE Redudancy	NA	x	x	x	x	x	x	x	✓	x	✓	x	x	✓	✓	✓	✓
WPA2-TKIP	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
I-Beacon	Both	x	x	x	x	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓
IGMP Snooping	Both	x	x	x	✓	✓	✓	✓	✓	x	x	✓	✓	✓	✓	✓	✓
CAPWAP	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Captive Portal Exemptions	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HotSpot 2.0	Both	x	x	x	x	x	✓	x	✓	✓	✓	x	x	✓	✓	✓	✓
WIPS	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
256 clients per Radio	Both	x	x	x	x	x	x	x	✓	✓	✓	x	x	✓	✓	✓	✓
Multiple PSK	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LLDP Discovery	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPSec Encryption	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jumbo Frames	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
Path MTU	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
WPA3	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Captive Portal AP Offload	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	x	x	x	✓	✓	✓
802.11v	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WIPS Client Exclusion	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Feature	Dataplane	AP433	AP1000	AP332	AP122	AP822	AP832	OAP832	FAP- U42xEV	FAP- U422EV (outdoor)	FAP- U32xEV	FAP- U22xEV	FAP- U24JEV	FAP- U43xF	MC/WLC	Virtual Controllers	FortiWLC - 1000D/3000D
<i>* Proxy ARP in bridged mode supported by FAP-U421EV & FAP-U423EV, also supported in AP832 for Hotspot profiles.</i>																	
<i>** Not supported in bridged mode AP320</i>																	
<i>*** Not supported in bridged mode AP320, AP1000, AP332</i>																	
<i>**** Not supported on 2.4 GHz radios of OAP832, AP822, and all FAP-U models</i>																	

FortiWLC-1000D/3000D - Maximum Value Limit

Feature/Configuration	FortiWLC-1000D	FortiWLC-3000D
Maximum APs	1000	3000
Maximum Clients	20000	35000
Maximum Security Profiles	128	128
Maximum RADIUS Profiles	64	64
Maximum ESS Profiles	256	256
Maximum Backup ESS Profiles	16	16
Maximum Guest Users	3000	3000
Maximum VLAN and GRE Profiles	1024	1024
Maximum VLAN Pools	64	64
Maximum VLANs per VLAN Pool	16	16
Maximum Port Profiles	16	16
Maximum QoS and Firewall Rules	250	250
Maximum Management VLANs	20	20
Maximum MAC Filtering Configuration (Allow/Deny)	2000	3000
Captive Portal (Maximum CP profiles) - (Internal and External in Tunnel and Bridge modes)	16	16
Maximum Captive Portals for Port profile clients	128	128
Maximum Internal Captive Portals	800	1500
Maximum External Captive Portals	6000	10000
Service Control (Settings - AP Groups)	128	128
Service Control (Settings - User Groups)	64	64
Service Control - Policies	128	128
UDP Broadcast Ports (Bridged / Tunnel)	8	8
Device Fingerprints	255	255
Maximum clients per Radio	256	256
Maximum Application Visibility (DPI) Policies	250	250
Multiple IP addresses per station (host + guest)	1+17	1+17
NPlus1 Cluster	5+1	5+1

Note: The maximum value limits are approximately the same for **FortiWLC virtual controllers** with dedicated CPU/memory/network resources identical to the FortiWLC hardware controllers.

Hardware/Virtual Controllers Compatibility Matrix

(FWC-series as Master) N+1

Slave	Master									
	FWC-50D	FWC-VM-50	FWC-200D	FWC-VM-200	FWC-500D	FWC-VM-500	FWC-1000D	FWC-VM-1000	FWC-3000D	FWC-VM-3000
MC1550	x	x	x	x	x	x	x	x	x	x
MC3200	x	x	✓	x	x	x	x	x	x	x
MC4200	x	x	x	x	✓	x	x	x	x	x
MC6000	x	x	x	x	x	x	x	x	x	x
FWC-50D	✓	x	x	x	x	x	x	x	x	x
FWC-VM-50	x	✓	x	x	x	x	x	x	x	x
FWC-200D	x	x	✓	x	x	x	x	x	x	x
FWC-VM-200	x	x	x	✓	x	x	x	x	x	x
FWC-500D	x	x	x	x	✓	x	x	x	x	x
FWC-VM-500	x	x	x	x	x	✓	x	x	x	x
FWC-1000D	x	x	x	x	x	x	✓	x	x	x
FWC-VM-1000	x	x	x	x	x	x	x	✓	x	x
FWC-3000D	x	x	x	x	x	x	x	x	✓	x
FWC-VM-3000	x	x	x	x	x	x	x	x	x	✓

(MC-series as Master) N+1

Slave	Master			
	MC1550	MC3200	MC4200	MC6000
MC1550	✓	x	x	x
MC3200	x	✓	x	x
MC4200	x	x	✓	x
MC6000	x	x	x	✓
FWC-50D	x	x	x	x
FWC-VM-50	x	x	x	x
FWC-200D	x	✓	x	x
FWC-VM-200	x	x	x	x
FWC-500D	x	x	✓	x
FWC-VM-500	x	x	x	x
FWC-1000D	x	x	x	x
FWC-VM-1000	x	x	x	x
FWC-3000D	x	x	x	x
FWC-VM-3000	x	x	x	x

VCell Roaming - Access Points Compatibility Matrix

Access Points	AP122	AP822	AP832	FAP-U22xEV	FAP-U32xEV	FAP-U42xEV	FAP-U24JEV
AP122	✓	✓	Supported with 2x2 MIMO mode	Supported with 2x2 MIMO mode	Supported with 2x2 MIMO mode	Supported with 2x2 MIMO mode	Supported with 1x1 mode
AP822	✓	✓	Supported with 2x2 MIMO mode	✓	Supported with 2x2 MIMO mode	Supported with 2x2 MIMO mode	Supported with 1x1 mode
AP832	Supported with 2x2 MIMO mode	Supported with 2x2 MIMO mode	✓	Supported with 2x2 MIMO mode	✓	Supported with 3x3 MIMO mode	Supported with 1x1 mode
FAP-U22xEV	Supported with 2x2 MIMO mode	✓	Supported with 2x2 MIMO mode	✓	x	x	Supported with 1x1 mode
FAP-U32xEV	Supported with 2x2 MIMO mode	Supported with 2x2 MIMO mode	✓	x	✓	Supported with 3x3 MIMO mode	x
FAP-U42xEV	Supported with 2x2 MIMO mode	Supported with 2x2 MIMO mode	Supported with 3x3 MIMO mode	x	Supported with 3x3 MIMO mode	✓	x
FAP-U24JEV	Supported with 1x1 MIMO mode	Supported with 1x1 MIMO mode	Supported with 1x1 MIMO mode	Supported with 1x1 MIMO mode	x	x	✓

Note: Vcell is not supported between 802.11n and 802.11ac.

FortiWLC - FortiWLM Compatibility Matrix

FortiWLC	FortiWLM										
	6.1-3	7.0.0	8.0.0	8.1.0	8.2.0	8.3.0	8.3.3	8.4.0	8.4.1	8.4.2	8.5.0
6.1-3	✓	✓	✓	x	x	x	x	x	x	x	x
7.0.0	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.0.0	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.1.0	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓
8.2.0	x	x	x	x	✓	✓	✓	✓	✓	✓	✓
8.3.0	x	x	x	x	x	✓	✓	✓	✓	✓	✓
8.3.3	x	x	x	x	x	x	✓	✓	✓	✓	✓
8.4.0	x	x	x	x	x	x	✓	✓	✓	✓	✓
8.4.4	x	x	x	x	x	x	✓	✓	✓	✓	✓
8.5.0	x	x	x	x	x	x	✓	✓	✓	✓	✓
8.5.1	x	x	x	x	x	x	x	x	x	x	✓
8.5.2	x	x	x	x	x	x	x	x	x	x	✓

Clients and Encryption Keys

FAP Models	Maximum supported clients/radios			Encryption/Decryption			
	Vcell	Native Cell		Vcell		Native Cell	
		ARRP (Off)	ARRP (On)	Hardware	Software	Hardware	Software
FAP-U42xEV	170	170	256	170	0	256	0
FAP-U32xEV	170	170	256	170	0	256	0
FAP-U22xEV	128	128	128	64	64	64	64
FAP-U24JEV	128	128	128	64	64	64	64
FAP-U43xF	NA	NA	512	NA		256	0



Copyright© 2020 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., in the U.S. and other jurisdictions, and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. In no event does Fortinet make any commitment related to future deliverables, features, or development, and circumstances may change such that any forward-looking statements herein are not accurate. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.

