FortiWLC
Compatibility Matrices

Release 8.5.0

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

- *Hardware (Access Points and Controllers) Compatibililty Matrix*
- *Hardware - Feature Compatibility Matrix*
- *N+1 - Hardware/Virtual Controllers Compatibility Matrix*
- *VCell Roaming - Access Points Compatibility Matrix*
- *FortiWLC - FortiWLM Compatibility Matrix*
- *Clients and Encryption Keys*

Hardware (Access Points and Controllers) Compatibililty 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
AP110	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
AP122	x	x	x	✔	✔	✔	✔	✔	✔	✔	✔	✔
AP300 i/e	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	✔	✔

Access Points

Hardware (Access Points and Controllers) Compatibililty 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
MC1500	✓	✓	✓	x	x	x	x	x	x	x	x	x
MC1550	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MC3200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MC5000	✓	✓	✓	x	x	x	x			x	x	x
MC4200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MC6000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MC1500 -VE	✓	✓	✓				x			x	x	x
MC1550-VE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x
MC3200-VE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x
MC4200-VE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	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	✓	✓	✓

Controllers

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FortiWLC 8.5.0 Hardware - Feature Compatibility Matrix

Feature	Dataplane	AP433	AP1000	AP332	AP122	AP822	AP832	OAP832	FAP-U42xEV	FAP-U422EV (outdoor)	FAP-U32xEV	FAP-U22xEV	FAP-U24JEV	MC/WLC	Virtual Controllers	FortiWLC - 1000D/3000D
Vcell	Both	x	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Vport	Both	✔	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	✔	✔	✔
Rogue scan	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
DFS	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
DFS Fallback Option	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Silent Client Polling	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Wired client on uplink port with Mesh	Tunnel	✔	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	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
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	✔	✔	✔
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	✔	✔	✔
AP Packet Capture	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Dynamic VLAN**	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Static VLAN**	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
VLAN Pooling	Tunnel	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

Feature	Dataplane	AP433	AP1000	AP332	AP122	AP822	AP832	OAP832	FAP-U42xEV	FAP-U422EV (outdoor)	FAP-U32xEV	FAP-U22xEV	FAP-U24JEV	MC/WLC	Virtual Controllers	FortiWLC - 1000D/3000D
Multicast/Broadcast Suppression	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
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	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
QoS (rules for ratelimiting DSCP Marking)	Tunnel	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
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	✔	✔	✔
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 loadbalancing	Both	x	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Multicast to Unicast conversion	Both	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
RAC	Tunnel	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
DPI statistics	Both	x	x	x	✔	✔	✔	✔	✔	✔	✔	x	x	✔	✔	✔
DPI Policies	Both	x	x	x	✔	✔	✔	✔	✔	✔	✔	x	x	✔	✔	✔
DPI Application throttling	Tunnel	x	x	x	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

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Feature	Dataplane	AP433	AP1000	AP332	AP122	AP822	AP832	OAP832	FAP-U42xEV	FAP-U422EV (outdoor)	FAP-U32xEV	FAP-U22xEV	FAP-U24JEV	MC/WLC	Virtual Controllers	FortiWLC - 1000D/3000D
DSCP Marking (application specific)	Both	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fortipresence	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BLE Locationing	Both	x	x	x	✓	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓
Ibeacons	Both	x	x	x	✓	✓	✓	x	x	✓	✓	✓	✓	✓	✓	✓
Spectrum Analysis	NA	x	✓	✓	x	x	✓	x	✓	✓	✓	✓	✓	✓	✓	✓
SAM	Tunnel	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													✓	✓	✓
Mulitple 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	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓	✓	✓
CAPWAP	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Captive Portal Exemptions	Tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HotSpot 2.0	Both	x	x	x	x	x	✓	x	✓	✓	✓	x	x	✓	✓	✓
WIPS	Both	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Feature	Dataplane	AP433	AP1000	AP332	AP122	AP822	AP832	OAP832	FAP-U42xEV	FAP-U422EV (outdoor)	FAP-U32xEV	FAP-U22xEV	FAP-U24JEV	MC/WLC	Virtual Controllers	FortiWLC - 1000D/3000D
* Proxy ARP in bridged mode supported by FAP-U421EV & FAP-U423EV, also supported in AP832 for Hotspot profiles.																
** Not supported in bridged mode AP320																
*** Not supported in bridged mode AP320, AP1000, AP332																

Slave	(FWC-series as Master) N+1 - Hardware/Virtual Controllers Compatibility Matrix									
	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	✔

Slave	Master			
	MC1550	MC3200	MC4200	MC6000
(MC-series as Master) N+1				
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	✓

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
6.1-3	✔	✔	✔	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	✔	✔	✔
8.5.0	x	x	x	x	x	x	✔	✔	✔

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FAP Models	Maximum supported clients/radios			Encryption/Decryption			
	Vcell	Native Cell		Vcell		Native Cell	
		ARRP (Off)	ARRP (On)	Hardware	Software	Hardware	Software
FAP-U42x EV	170	170	256	170	0	256	0
FAP-U32x EV	170	170	256	170	0	256	0
FAP-U22x EV	128	128	128	64	64	64	64
FAP-U24J EV	128	128	128	64	64	64	64

Clients and Encryption Keys