

CLIENT DEVICE INTEROPERABILITY TEST RESULTS

Document Version: v1.0		
Client Device Details		
Client Device Make	Samsung	
Client Device Type	Mobile Device	
Client Device Model	Samsung Galaxy S21 Ultra 5G	
Client Device OS type	Android 12	
Tested Client Device NIC capability	11ax, 2 spatial stream	
Test Configuration		
Aruba OS Version	8.9.0.0-81161	
Access Point	AP515, AP535, AP635	
Basic Wi-Fi Interoperability Test and Capability Results		
Feature	Support	Capability Details
Association		
Supported Encryption Opmodes	✓	Open, Mac Auth, Open WEP, PSK(TKIP/AES), Enterprise (TKIP/AES), Mixed (PSK/AES)
Channels		
2.4 GHz Radio	✓	2.41 ... 2.48 GHz; depending on the country approvals (channels 1-13)
5 GHz Radio	✓	4.9 ... 5.8 GHz; depending on the country approvals (Channels 36-165)
Roaming		
Opportunistic Key Caching (OKC)	✓	OKC Capable
Fast Transition (802.11r)	✓	FT with both PSK and Enterprise SSID
Protocols		
BSS Transition (802.11v)	✓	Supports BSS Transition
WMM Client (802.11e)	✓	802.11e Capable
WMM-PS (U-APSD)	X	Client Does not support U-APSD Power Save
Radio Resource Management (802.11k)	✓	802.11k Capable
Management Frame Protection (802.11w)	✓	MFP-Capable and MFP-Required
802.11h and 802.11d	✓	DFS and TPC capable
WPA3 Capabilities		
OWE	✓	OWE Capable
WPA3-SAE	✓	SAE Capable
WPA3-CCM-128	✓	WPA3-CCM-128 Capable
WPA3-SuiteB	✓	Suite-B Capable

WPA3-AES-GCM-256	✓	GCM-256 Capable
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Roaming with WPA3		
SAE+11r	✗	Not supported by client
WPA3-CCM-128 + 11r	✓	Capable of WPA3-CCM-128 + 11r
Suite-B +11r	✗	Not supported by client
WPA3-AES-GCM256 + 11r	✓	Capable of GCM256+11r
802.11ax Client Capabilities		
802.11ax Capable	✓	11ax Capable
DL-OFDMA	✓	Capable of transmitting OFDMA frames
UL-OFDMA	✓	Capable of receiving OFDMA frames
DL MU-MIMO	✓	Capable of transmitting HE MU-MIMO frames
UL MU-MIMO	✗	Client cannot receive HE MU-MIMO frames
TWT Capable	✓	Individual TWT supported
1024 QAM Capable	✓	All rates up to MCS 11 supported in both Tx and Rx
WIFI 6E		
6E Capable	✓	6E Capable Client
Notes and Additional Comments		

NOTE: Client Device may support a superset of the above capabilities

ABBREVIATIONS: NR: Neighbor Report; BR: Beacon Report; LM: Link Measurement, TSM: Transmit Stream Measurement, MFP: Management Frame Protection, FT: Fast Transition, OKC: Opportunistic Key Caching, DFS: Dynamic Frequency Selection, TPC: Transmit Power Control, DL: Downlink, UL: Uplink, TWT: Target Wake Time, OFDMA: Orthogonal Frequency Division Multiple Access