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 S20
Client Device OS type	Android 10
Tested Client Device NIC capability	11ax, 2 spatial stream
Test Configuration	
Aruba OS Version	8.7.0.0-75915
Access Point	AP515, AP535

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)	✗	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	✗	Not supported by client

WPA3-AES-GCM-256	✗	Not supported by client

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	✗	Not supported by client
802.11ax Client Capabilities		
802.11ax Capable	✓	11ax Capable
DL-OFDMA	✓	Capable of receiving OFDMA frames
UL-OFDMA	✓	Capable of transmitting OFDMA frames
DL MU-MIMO	✓	Capable of receiving HE MU-MIMO frames
UL MU-MIMO	✗	Client cannot transmit HE MU-MIMO frames
TWT Capable	✓	Individual TWT supported
1024 QAM Capable	✓	All rates up to MCS 11 supported in both Tx and Rx
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