

Wi-Fi Deployment Guidelines Checklist

An industry standardized approach



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Work Group



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The below criteria are required for your network to meet Wi-Fi Deployment Guidelines compliance

Category	Criteria	Answer	Reference	Comments
Planning	1 Business requirements (who will be using the WLAN, what applications will be used, what type of devices will be accessing the network)	<select>	Wi-Fi Deployment Guidelines section 2.1.1	
	2 Is this an upgrade to a new technology? Which one? Which legacy networks are active at the venue at the moment?	<select>	Wi-Fi Deployment Guidelines section 2.1.2	
	3 Which certifications are needed to insure interoperability between devices?	<select>	Wi-Fi Deployment Guidelines section 2.1.4	
	4 Capacity planning: identify hotspots within the venue, how many clients per hotspots, determine client type percentage breakdown (smartphones, tablets, laptops), determine use cases (VoWiFi, file sharing, video calling, etc), estimate traffic per client (in MB) during the busiest hour, etc.	<select>	Wi-Fi Deployment Guidelines section 2.1.5	
	5 Signal level targets for RF site survey derived from planning tools	<select>	Wi-Fi Deployment Guidelines section 2.1.6	
	6 PoE - does the customer have PoE or PoE+ in place? Is it midspan or endpoint?	<select>	Wi-Fi Deployment Guidelines section 2.1.8	
	7 Security expectations (AAA requirements, WIDS or WISP protection, is 802.1X/EAP viable?)	<select>	Wi-Fi Deployment Guidelines section 2.1.7	
	8 Network segmentation - will managed or unmanaged switch be used, what are the requirements for management of users, devices, RF channels and infrastructure, how will guests access the network	<select>	Wi-Fi Deployment Guidelines section 2.1.9	
Site Survey	9 Was the customer interviewed about the existing wireless network (problems, known sources of interference, coverage holes, prior surveys, legacy equipment, wiring closets, naming convention)	<select>	Wi-Fi Deployment Guidelines section 2.2.1.1	
	10 Were critical documents obtained from the customer (blueprints, network topology map, security credentials, interview, installation and equipment checklist)	<select>	Wi-Fi Deployment Guidelines section 2.2.1.2	
	11 Were appropriate indoor survey site tools used (spectrum analyzer, wifi client device, wifi data collection tool, access point, controller, battery pack, temp mounting gear, camera, flashlight, binocular, measuring wheel, ladder)	<select>	Wi-Fi Deployment Guidelines section 2.2.2	
	12 Was passive and/or active survey performed?	<select>	Wi-Fi Deployment Guidelines section 2.2.3	
	13 AP survey analysis coverage: determine cell edge based on 90% cell edge reliability	<select>	Wi-Fi Deployment Guidelines section 2.2.3 & 2.2.4	
	14 Was background (ambient) noise measured?	<select>	Wi-Fi Deployment Guidelines section 2.3.1	
	15 Was broadband or wideband interference captured? Were the source(s) identified and their locations marked up on the floorplan?	<select>	Wi-Fi Deployment Guidelines section 2.3.2	
	16 Was the channel occupancy measured throughout the venue?	<select>	Wi-Fi Deployment Guidelines section 2.3.3	
Network implementation	17 Are proposed AP locations away from other RF sources and metal surfaces?	<select>	Wi-Fi Deployment Guidelines section 3.1	
	18 Were directional antennas used in high client density areas (gymnasium, arena, stadiums) to provide for sectors of coverage? Were they used in tunnels or appropriate corridors?	<select>	Wi-Fi Deployment Guidelines section 3.1	
	19 Was the number of PoE or PoE+ powered devices per closet calculated?	<select>	Wi-Fi Deployment Guidelines section 3.1.1	
	20 Was the required backhaul throughput calculated?	<select>	Wi-Fi Deployment Guidelines section 3.1.2	
	21 Were Layer 3 boundaries determined? Is roaming across the boundaries required? Which roaming solution will be used?	<select>	Wi-Fi Deployment Guidelines section 3.1.3	
	22 Is traffic segmentation required? How many VLAN networks should be supported? Do VLAN clients need to be further separated into sub-segments using RBAC?	<select>	Wi-Fi Deployment Guidelines section 3.1.4	
	23 Have WLAN profile parameters (SSID, security settings, VLAN assignment and Quality of Service) been identified?	<select>	Wi-Fi Deployment Guidelines section 3.1.5	
	24 Is the Wi-Fi network designed for capacity or coverage?	<select>	Wi-Fi Deployment Guidelines section 3.2.1	
	25 Was the KPI at cell edge determined to provide optimum coverage based on the design type, ambient noise and/or application type?	<select>	Wi-Fi Deployment Guidelines section 3.2.2	
	26 Were AP coverage control techniques taken into account to prevent AP - client coverage mismatch, RF co-channel overlap and hidden node?	<select>	Wi-Fi Deployment Guidelines section 3.2.3	
	27 Was optimum RF channel width determined?	<select>	Wi-Fi Deployment Guidelines section 3.2.4	
	28 Was predictive software used to generate heat maps (Channel reuse pattern, AP coverage boundaries, Signal strength, Co-Channel Interference, Average throughput per client)?	<select>	Wi-Fi Deployment Guidelines section 3.2.5	
	29 Was RF steering implemented?	<select>	Wi-Fi Deployment Guidelines section 3.2.6	
	30 Were inputs for capacity analysis provided? Have all APs passed capacity analysis under specified data traffic load?	<select>	Wi-Fi Deployment Guidelines section 3.2.7	
Documentation	31 Was Vendor recommendation provided?	<select>	Wi-Fi Deployment Guidelines section 3.3	
	32 Were coverage and capacity prediction heatmaps provided?	<select>	Wi-Fi Deployment Guidelines section 3.3	
	33 Was implementation diagram provided?	<select>	Wi-Fi Deployment Guidelines section 3.3	
	34 Was Bill of Materials provided?	<select>	Wi-Fi Deployment Guidelines section 3.3	
	35 Were project Schedule and Cost provided?	<select>	Wi-Fi Deployment Guidelines section 3.3	
	36 Was Security Solution Recommendation provided?	<select>	Wi-Fi Deployment Guidelines section 3.3	
	37 Was Wireless Policy Recommendation provided?	<select>	Wi-Fi Deployment Guidelines section 3.3	
	38 Was Training Recommendation provided?	<select>	Wi-Fi Deployment Guidelines section 3.3	
Total Compliancy Result:		PMO to fulfill	pmo@wballiance.com	

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