



a&o Service Offerings

Offering	Wireless LAN Planning & RF Survey
Description	<p>The a&o systems Wireless LAN Planning & RF Survey service offering is a complete WLAN planning service to enable businesses the freedom and mobility for secure access to corporate data, as well as controlled access for guest users.</p> <p>A professional RF site survey is needed to ensure the successful and efficient deployment of wireless networks and incorporates a key prerequisite component in the design, deployment and support for secure Wireless LAN solutions in single site, campus or multi-site environments.</p>
Methodology	<p>An a&o Technical Architect would initially take a consultative approach to determine the customer requirements for a Wireless LAN infrastructure to ensure the design provides the required service levels to accommodate business applications and support employee mobility.</p> <p>The ability to meet service levels allows network managers to control bandwidth, deliver a level of quality of service and policy management that support the business needs of the enterprise to provide the same characteristics as wired LANs, but with the restriction of a using a shared medium for transport.</p> <p>a&o Support Engineers would then undertake a complete 802.11a/b/g/n 2.4 GHz and 5 GHz site architecture planning service to provide a fully optimized design of indoor and outdoor networks. The planning service would include a mixture of RF planning and survey tools combined with practical knowledge gained delivering many successful radio networks.</p>
Deliverables	<p>The WLAN Planning & RF Survey Service provides a detailed report that includes the following:</p> <ul style="list-style-type: none"> • RF Site Survey that provides: <ul style="list-style-type: none"> • Physical Location and mounting requirements of all equipment • RF coverage ‘heat’ maps of all required areas • ‘Line of Sight’ plots for external links • Throughput tests where relevant • Requirements for Internal/External Antenna, cabling and power



Empowering Technology



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	<ul style="list-style-type: none"> • 802.11a/b/g/n 2.4 GHz and 5 GHz radio type recommendations based on coverage and bandwidth requirements, plus dynamic RF management, and self-healing requirements • Site categorisation to enable Access Points (AP's) numbers to be determined based on the number of users, user/application bandwidth requirements, and physical coverage. • Wireless LAN management recommendations for control and management of the WLAN infrastructure • Integration recommendations with existing wired network, network security tools & policies, wireless intrusion detection and protection recommendations • Wireless access recommendations for authentication mechanisms, encryption techniques and standards; role & user based access and guest access 								
<p>Supported Environments</p>	<p>Our consultants will require a suitable level of access to existing network designs and future requirements, Microsoft NT and/or Active Directory information, security policies & strategies, VLAN design, IP schema information, building cabling information, building plans, and key IT personnel.</p> <p>The RF survey is vendor agnostic, but a&o has specific design expertise with WLAN solutions from Alcatel-Lucent, Aruba Networks, Cisco and HP.</p>								
<p>Resource Model</p>	<p>Resourcing for this service will be dependent upon a number of site specific factors and client project requirements. An indicative example for a standard build 2-storey, single site office environment is:</p> <table border="0" style="margin-left: 40px;"> <tr> <td style="padding-right: 20px;">WLAN Planning & RF Survey</td> <td style="text-align: right;"><u>4 days</u></td> </tr> <tr> <td>• Planning design</td> <td style="text-align: right;">1.0 day</td> </tr> <tr> <td>• RF site survey</td> <td style="text-align: right;">1.5 days</td> </tr> <tr> <td>• Report and recommendations</td> <td style="text-align: right;">1.5 days</td> </tr> </table>	WLAN Planning & RF Survey	<u>4 days</u>	• Planning design	1.0 day	• RF site survey	1.5 days	• Report and recommendations	1.5 days
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<p>Related Services</p>	<ul style="list-style-type: none"> • IP Telephony & VoIP provision with VoWLAN • WLAN Security Assessment 								

