



Deakin eSolutions

ICT Volume 6: Network Standards – Associated Resources

ICT 6.9.1 Wireless LAN Installation Signoff Checklist

Audio Visual and Networks Unit

Document Version 1.2

Abstract

This document is a checklist for all Wireless LAN Installations and will need to be completed by a Deakin eSolutions (DeS) representative. The document works in tandem with the technical and design standards documents for Wireless LAN standard and implementation.

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Document History

Ver.	Primary Author(s)	Description of Version	Date Completed
1.0	Wayne Goorden	New Document	23/03/2013
1.1	Wayne Goorden	Annual Standards Compliance Review	14/07/2015
1.2	Megan Mathers	Updated document	30/08/2016

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1 Standards Brief

This document specifies the checklist that shall apply to commissioning and handover of areas that have been fitted out or refurbished to contain Wireless LAN infrastructure.

1.1 Standard Document Access

All Deakin University staff and contracted personnel are provided access to this document.

Designers, installers and contractors must ensure they have the most current version of all standards prior to engaging in any work.

The most recent version of the Standards and associated Resources can be found on the internet at:

<http://www.deakin.edu.au/ict/standards/active.php>

1.2 Policy

These standards must be used in conjunction with all other referenced standards, and when considered in isolation from the referenced standards may not constitute adequate conformance.

1.3 Conflict of Information or Clarification

Whenever a conflict of information occurs or clarification of instruction is required all queries shall be made to the **DeS AV and Networks Unit Leader**.

2 Checklist

This document provides a clear checklist for DeS staff to assess the quality of installation. This document shall also be used as a guide for the installer to understand how work will be assessed against Deakin standards.

Once the requirements of this list are met this document will become a reference for sign off at which point the venue is handed over from the installer to DeS to initiate operational handover.

2.1 Checklist

Index	Communications room and environment	Pass	Comment required			Comments
			N/A	Fail	Exempt	
1	Wireless Access Points (WAPs) have been installed in line with original DeS approved design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2a	<i>Standard ceilings:</i> Indoor WAPs are mounted on ceiling at a height less than 2.4 metre	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2b	<i>High ceilings:</i> Indoor WAPs are mounted on wall using approved L-bracket at a height less than 2.4 metre	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2c	<i>High Density applications:</i> Correct antennas have been used and are correctly oriented, as specified in the approved design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2d	<i>Outdoor applications:</i> Correct antennas have been used and are correctly oriented, as specified in the approved design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3a	WAPs are accessible by standard 1.8 metre ladder and not in stairwell or other area with uneven floor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3b	WAPs are not hidden in walls, ceilings or other inaccessible locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	WAPs are installed 50 mm below data point using 0.25 metre Cat 6a cabled with no excess cable visible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Network points for WAPs are labelled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	WAPs are labelled to the standard naming convention using correct location information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Labels are visible from floor level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Index	Communications room and environment	Pass	Comment required			Comments
			N/A	Fail	Exempt	
8	Contractor has provided marked-up floor plan showing WAP locations. MAC addresses must be included on this plan.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9	Indicator lights on WAPs show unit as active	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10	WAPs are visible to switch via Cisco Discovery Protocol (CDP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11	WAPs are registered, visible, associated with and operating in connection to Wireless LAN Controller (WLC) network	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12a	<i>Inter-cell interference:</i> CPI reports no interference between nearby WAPs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12b	<i>Alien interference:</i> CPI reports no interference from other sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13a	<i>Performance (Standard Density areas):</i> Coverage conforms to Deakin Standard for Standard Density areas, i.e. >-67dBm signal strength throughout areas covered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13b	<i>Performance (Medium Density areas):</i> Coverage conforms to Deakin Standard for Medium Density areas, i.e. >-67dBm signal strength and coverage by 2 WAPs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13c	<i>Performance (High Density areas):</i> Coverage conforms to Deakin Standard for High Density areas, i.e. >-67dBm signal strength and supports minimum average density of two user devices (one active) per square metre of populated floor area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13d	<i>Performance (Outdoor areas):</i> Coverage conforms to Deakin Standard for Outdoor Areas, i.e. >-70dBm signal strength over the broad area and >-67dBm in specific areas of identified high density occupation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3 Exemptions

Exemptions can be granted if agreement has been justified and agreed to by DeS. **Sign off on exemptions must be by the AV & Networks Unit Leader only.**

ID	Item Exempted	Reason	Authorised by
1			
2			
3			

4 Defects List

The defects listed below will need to all be resolved and signed off by DeS staff before the job can be signed off.

ID	Item Failed	Corrective Action Required	Who	Due date
1				
2				

5 Sign Off

Location/Building/Floor/Room _____

DeS Reviewer _____ Date: ____/____/____

DeS Peer Reviewer _____ Date: ____/____/____

Installer _____ Date: ____/____/____

Senior
Communications
Engineer _____

Customer (if applicable) _____