



The University of Manchester Network Transformation Project (WLAN)



Waterloo Place - Listed Building Changes Installation Pack

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Document Version

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1 Overview

1.1 AP Name Key

This document presents the final position of all APs within this location following a detailed survey.

AP naming convention:

New or refreshed APs will be named using the following format

FXX-T-M(A)

Where:

- F = Floor Number
- XX = AP Number
- T = AP Type
 - H = AP-535
 - L = AP-515
 - B = AP-303
- M = Mount Type
 - C = Ceiling or other horizontal mounting e.g. cable tray
 - W= Wall
 - O = Oberon Bracket
- (A) = Action - AP locations
 - R = Refresh
 - M = Move
 - N = New

So, for example, a ceiling mount AP-535, which is the first AP on floor 4 and is to be moved from an existing wall mount location, would be named:

401-H-C(M)

Other AP labels

(D) = Decommission AP location

There may be a requirement to fully decommission an AP position within the site. These AP locations have been marked with a (D). This AP position is no longer required.

(K) = Keep AP location and leave AP (AP does not need refreshing\replacing)

These APs are already of a minimum standard and do not need any action.

Cabinet and comms rooms locations that were identified during the survey are marked on the floorplan with red hatching.

1.2 WLAN AP Overview

Below highlights the total AP(s) following refresh and installation activity (Total APs) across each floor.

The New AP Hardware section highlights the number of APs required per model that you will require*.

Level	(M)	(N)	(D)	Total	New AP Hardware		
					Aruba 515	Aruba 535	Aruba 303
Waterloo Place - Level -10 - Basement Floor	0	7	0	7	7	0	0
Waterloo Place - Level 00 - Ground Floor	0	6	0	6	6	0	0
Waterloo Place - Level 10 - First Floor	0	4	0	4	4	0	0
Waterloo Place - Level 20 - Second Floor	1	3	0	4	4	0	0
Total	1	20	0	21	21	0	0

The total new AP Hardware may not match the total numbers under each heading (R,K,D,M,N). Do not worry, the combined total 'New AP Hardware' will match the combined total of R,M,N as this represents the new APs to be installed.

Table Key:

R= APs that require replacement in their current position

K = APs that are to be left. No work is required to these APs

D = APs that require decommissioning. The AP location is no longer required

M = APs that need to be moved from existing location to a new location

N = Brand new AP location

1.3 Installation Guidance Notes (Please Read)

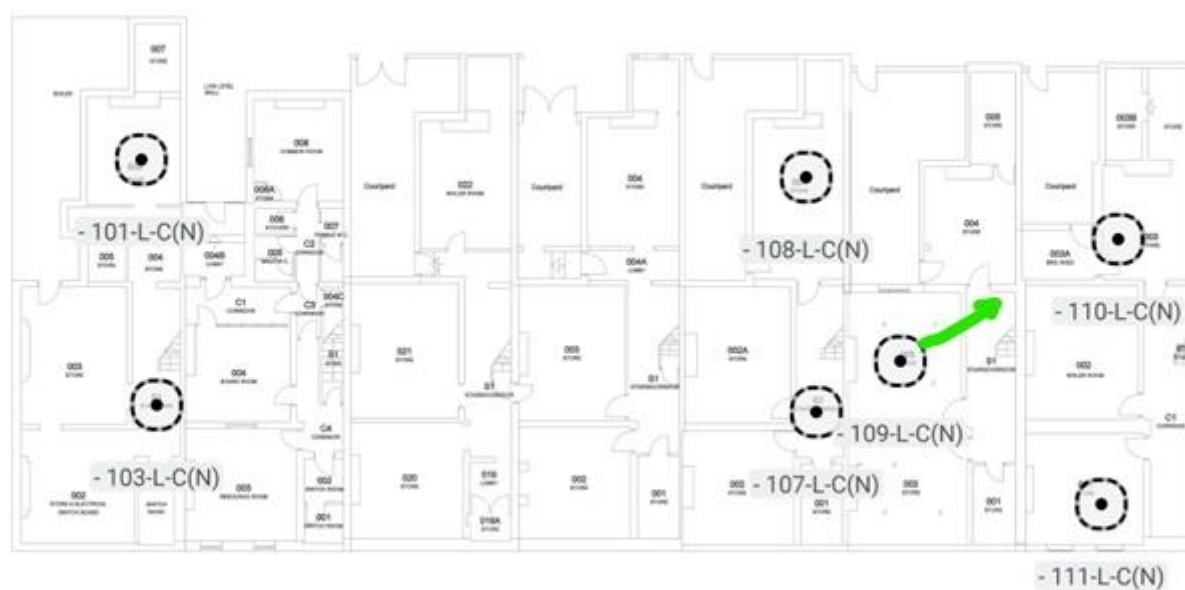
- 1) **Please** install APs whether refreshed, moved or new, as per the floor diagrams within this pack. To support the location of AP point, photos will be presented in this pack after each floor diagram. Please note: where access was not granted, photos are unavailable to aid the installation).
- 2) **Where AP locations are marked as (D) 'decommission'** please ensure you remove this AP.
- 3) **The plotted recommended AP locations** on each floor diagram **are the desired install location**. Should the direct location not be available due to restrictions, please advise the project team immediately.
- 4) **The APs should** be installed/mounted as per the naming convention on page 4.
- 5) **Each data point at the AP** is to be **labelled** with the patching details as to the terminated cabling to the Comms room patch panel and **recorded on the floor plan**.
- 6) The additional **AP stickers** that contain the Serial number, Mac address and barcode etc are **to be attached to the floor plan and with a clear line pointing to the AP location installed to**. This enables us to identify where each actual AP is once you have installed it.
- 7) **If the AP is marked to be moved**, please where possible re-use any existing cabling should it be deemed acceptable to re-use (refer to EPM PM19). There will be occasions where a new cable(s) will need to be run.
- 8) Please ensure you complete this document fully **to enable sign off of the site**.
- 9) Please refer to EPM PM19 for cabling policy and procedures.
- 10) **There may be AP locations that require installing outside of EPM PM19 procedures**. The photos that are provided for the install will correctly identify the location that has been approved for install.

Questions should be referred to the project team if not sure.

NOTE: When carrying out a **MOVE AP** task, the original AP location will be within a 3-meter radius. Any queries in relation to a MOVE AP, please contact the project team.

2 AP Locations

2.1 Waterloo Place - Level -10 - Basement Floor





AP Name	Mounting	Location	Antenna Type
- 101-L-C(N)		Waterloo Place - Level -10 - Basement Floor	Internal



AP Name	Mounting	Location	Antenna Type
- 103-L-C(N)		Waterloo Place - Level -10 - Basement Floor	Internal



AP Name	Mounting	Location	Antenna Type
- 107-L-C(N)	Mount on existing tray	Waterloo Place - Level -10 - Basement Floor	Internal



AP Name	Mounting	Location	Antenna Type
- 108-L-C(N)	Mount on existing tray	Waterloo Place - Level -10 - Basement Floor	Internal



AP Name	Mounting	Location	Antenna Type
- 109-L-C(N)	Slight move from original planned location. Mount on existing tray.	Waterloo Place - Level -10 - Basement Floor	Internal



AP Name	Mounting	Location	Antenna Type
- 110-L-C(N)	Ceiling mounted near existing containment.	Waterloo Place - Level -10 - Basement Floor	Internal



AP Name	Mounting	Location	Antenna Type
- 111-L-C(N)		Waterloo Place - Level -10 - Basement Floor	Internal

The floor plan shows a complex arrangement of rooms. Key areas include:

- 001-L-C(N)**: Located in the top left corner, near the 011 STORE and 010 OFFICE.
- 005-L-C(N)**: Located in the top center, near the 011A BOILER and 011 STORE.
- 010-L-C(N)**: Located in the top right, near the 010 KITCHEN and 010 COMMUNITY.
- 011-L-C(N)**: Located in the middle right, near the 011 OFFICE and 011 KITCHEN.
- 013-L-O(N)**: Located in the bottom center, near the 013 LOBBY and 013 RECEPTION WAITING ROOM.
- 015-L-C(N)**: Located in the bottom right, near the 015 CORRIDOR and 015 MEETING ROOM.

Other labeled rooms include: 010 STORE, 010 OFFICE, 010 KITCHEN, 010 COMMUNITY, 010 RECEPTION WAITING ROOM, 010 DENTAL SURGERY, 010 STAFF ROOM, 010 KITCHEN, 010 MALE W.C., 010 FEMALE W.C., 010 CLEANERS ST., 010 DIS. W.C., 010 CONSULTATION ROOM, 010 STAIRS, 010 CORRIDOR, 010 LOBBY, 010 WAITING ROOM, 010 RECEPTION, 010 STAIRS/CORRIDOR, 010 SEMINAR ROOM, 010 MEETING ROOM, 010 THE JAPAN CENTRE OFFICE, 010 CORRIDOR, 010 LOBBY, 010 MALE WC, 010 FEMALE WC, 010 DIS MALE WC, 010 KITCHEN, 010 CORRIDOR.



AP Name	Mounting	Location	Antenna Type
001-L-C(N)		Waterloo Place - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
005-L-C(N)		Waterloo Place - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
010-L-C(N)		Waterloo Place - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
011-L-C(N)		Waterloo Place - Level 00 - Ground Floor	Internal



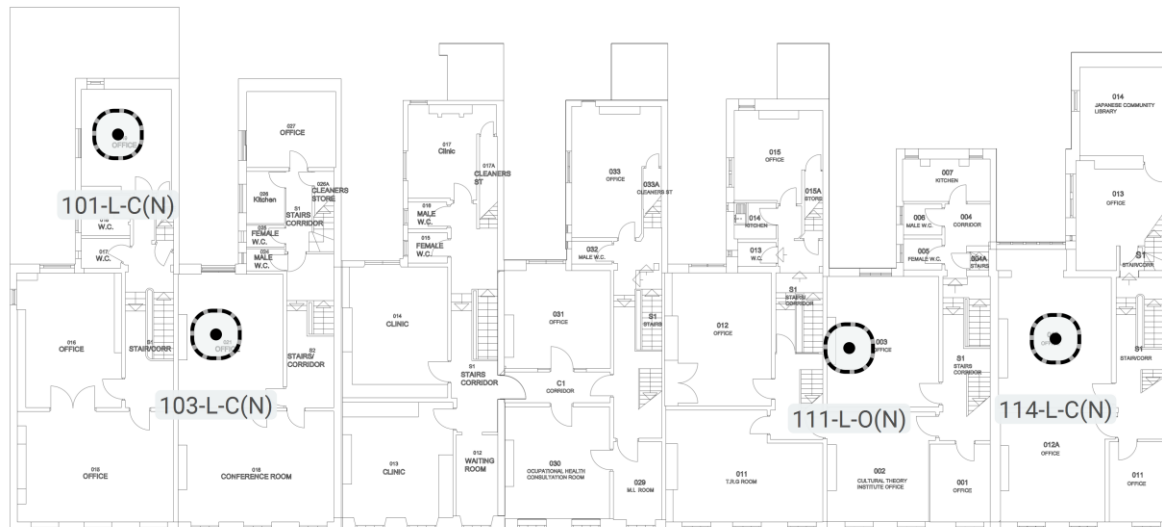
AP Name	Mounting	Location	Antenna Type
013-L-O(N)	Wall mounted near existing data port to be used if possible.	Waterloo Place - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
015-L-C(N)		Waterloo Place - Level 00 - Ground Floor	Internal

4 AP Locations

4.1 Waterloo Place - Level 10 - First Floor





AP Name	Mounting	Location	Antenna Type
101-L-C(N)		Waterloo Place - Level 10 - First Floor	Internal



AP Name	Mounting	Location	Antenna Type
103-L-C(N)		Waterloo Place - Level 10 - First Floor	Internal



AP Name	Mounting	Location	Antenna Type
111-L-O(N)	To be wall mounted near existing data ports to be used if possible.	Waterloo Place - Level 10 - First Floor	Internal

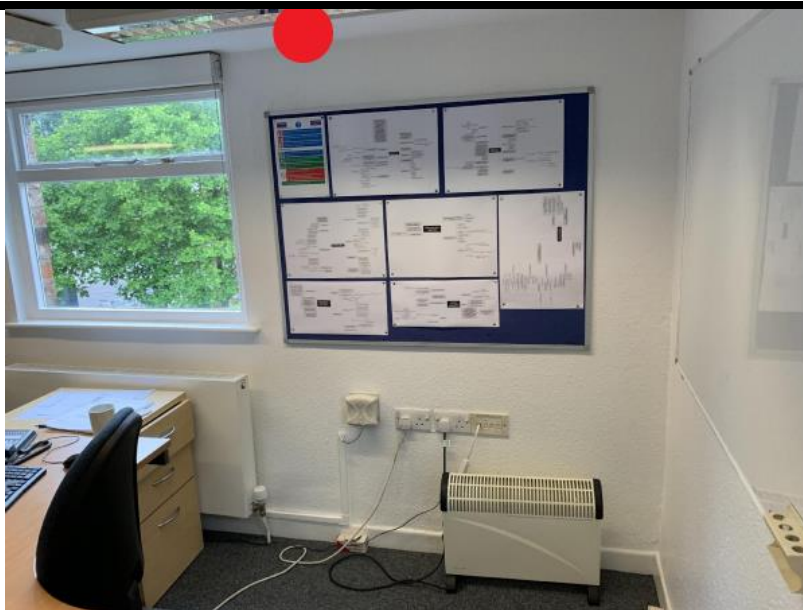


AP Name	Mounting	Location	Antenna Type
114-L-C(N)		Waterloo Place - Level 10 - First Floor	Internal

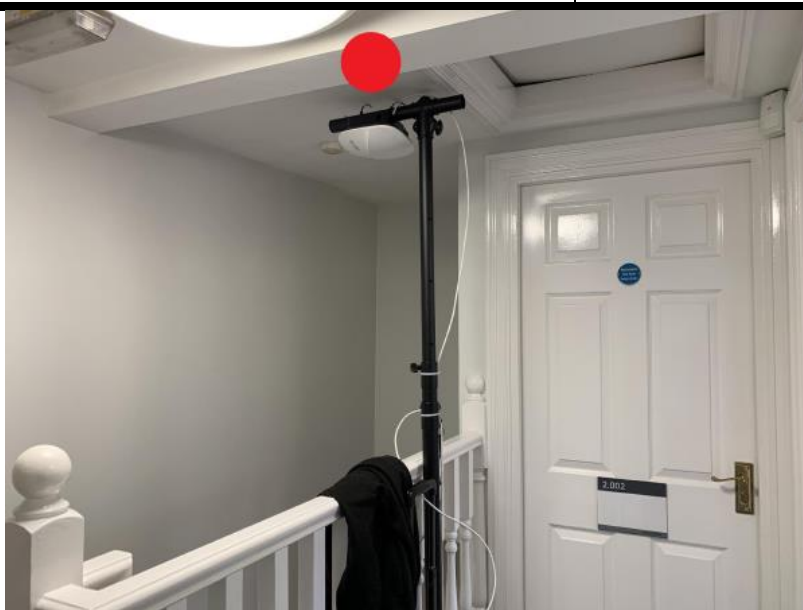
5 AP Locations

5.1 Waterloo Place - Level 20 - Second Floor





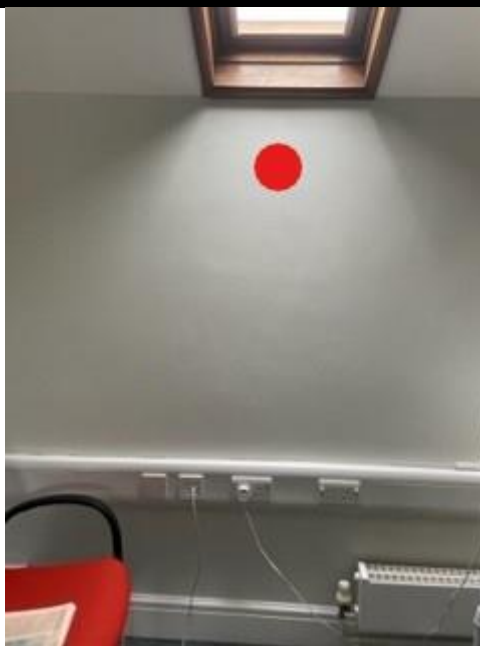
AP Name	Mounting	Location	Antenna Type
201-L-C(M)		Waterloo Place - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
202-L-C(N)		Waterloo Place - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
206-L-O(N)	Wall mounted above existing data port to be used if possible.	Waterloo Place - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
207-L-O(N)	Wall mounted above existing containment and existing data port to be used if possible.	Waterloo Place - Level 20 - Second Floor	Internal