



The University of Manchester Network Transformation Project (WLAN)



John Owens Building Installation Pack

Prepared by

 Projective Consulting Ltd. The logo consists of the letters "pc" in a stylized, lowercase font, with the "p" in blue and the "c" in red. To the right of the logo, the words "Projective Consulting Ltd." are written in a blue sans-serif font.

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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
John Owens - Level - 10 - Lower Ground Floor	0	12	0	12	12	0	0
John Owens - Level - 05 - Lower Ground Mezzanine	0	7	0	7	7	0	0
John Owens - Level 00 - Ground Floor	0	11	0	11	11	0	0
John Owens - Level 05 - Ground Floor Mezzanine	0	2	0	2	2	0	0
John Owens - Level 10 - First Floor	0	7	0	7	7	0	0
John Owens - Level 15 - First Floor Mezzanine	0	2	1	3	2	0	0
John Owens - Level 20 - Second Floor	1	9	0	10	9	0	0
Total	1	50	1	53	50	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.

RIVER BUILDING
 NOT SHOWN IN THIS MAP

-1005-L-C(N)
 -1010-L-C(N)
 -1015-L-C(N)
 -1020-L-O(N)
 -1007-L-C(N)
 -1014-L-C(N)
 -1017-L-C(N)
 -1022-L-C(N)
 -1023-L-C(N)
 -1027-L-C(N)
 -1026-L-C(N)
 -1028-L-C(N)

CHARTERED BUILDING
 NOT SHOWN IN THIS MAP



AP Name	Mounting	Location	Antenna Type
-1005-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal



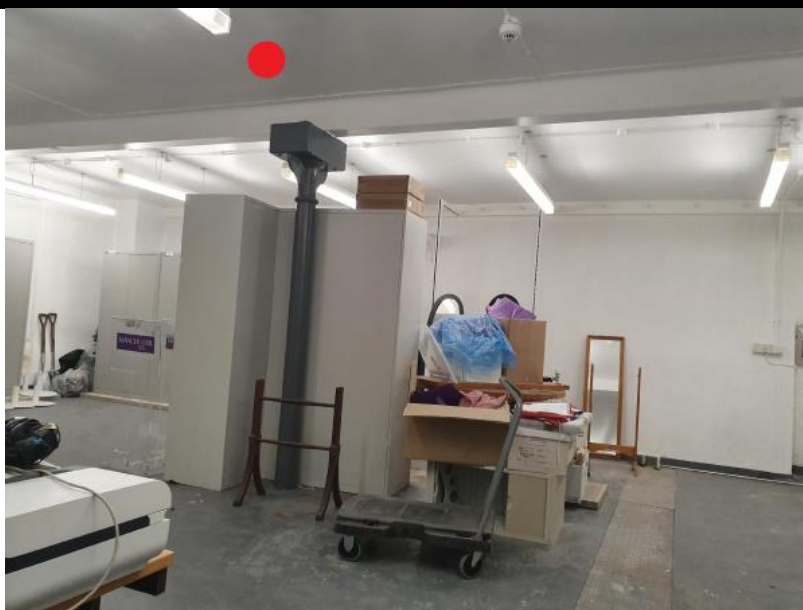
AP Name	Mounting	Location	Antenna Type
-1007-L-C(N)	Exception: height slightly exceeds 3m but clear access and grid ceiling	John Owens - Level -10 - Lower Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
-1010-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal

[PHOTO UNAVAILABLE]

AP Name	Mounting	Location	Antenna Type
-1014-L-C(N)	UoM have been unable to provide access to this space.	John Owens - Level -10 - Lower Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
-1015-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
-1017-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal



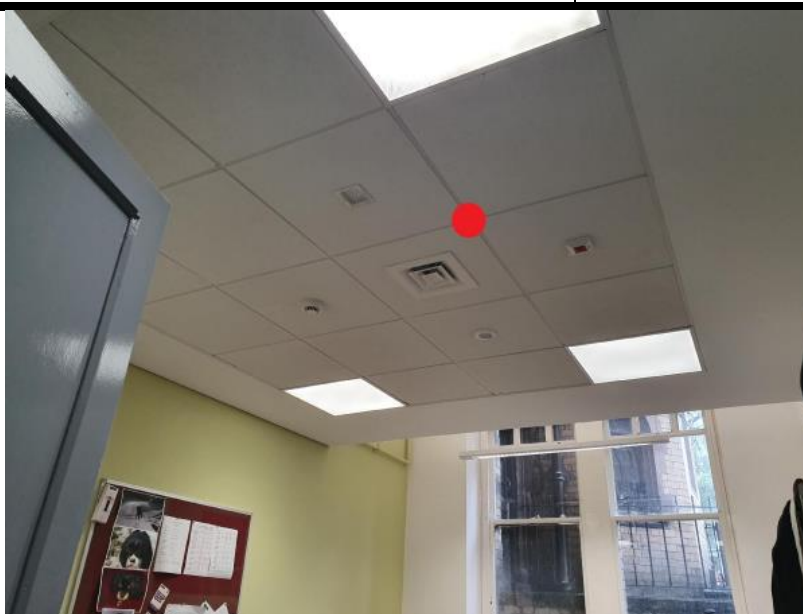
AP Name	Mounting	Location	Antenna Type
-1020-L-O(N)	To be wall mounted.	John Owens - Level -10 - Lower Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
-1022-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal



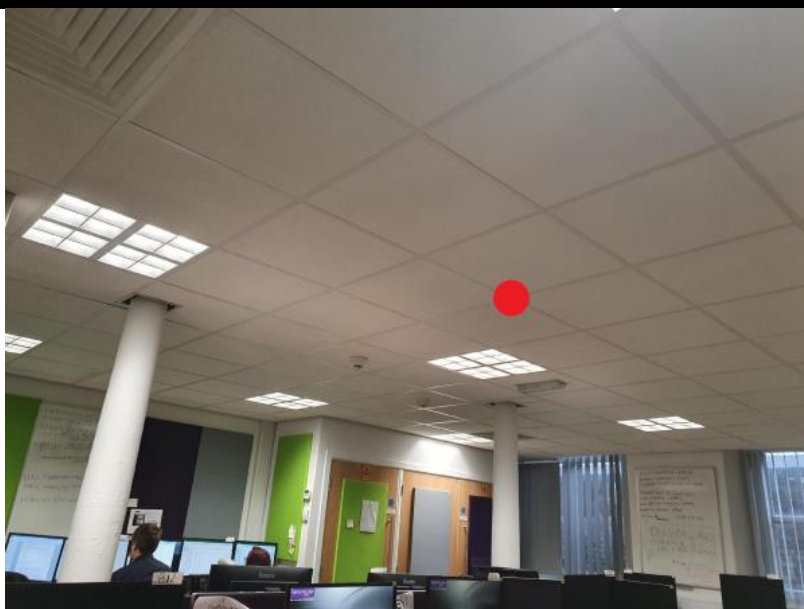
AP Name	Mounting	Location	Antenna Type
-1023-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
-1026-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal



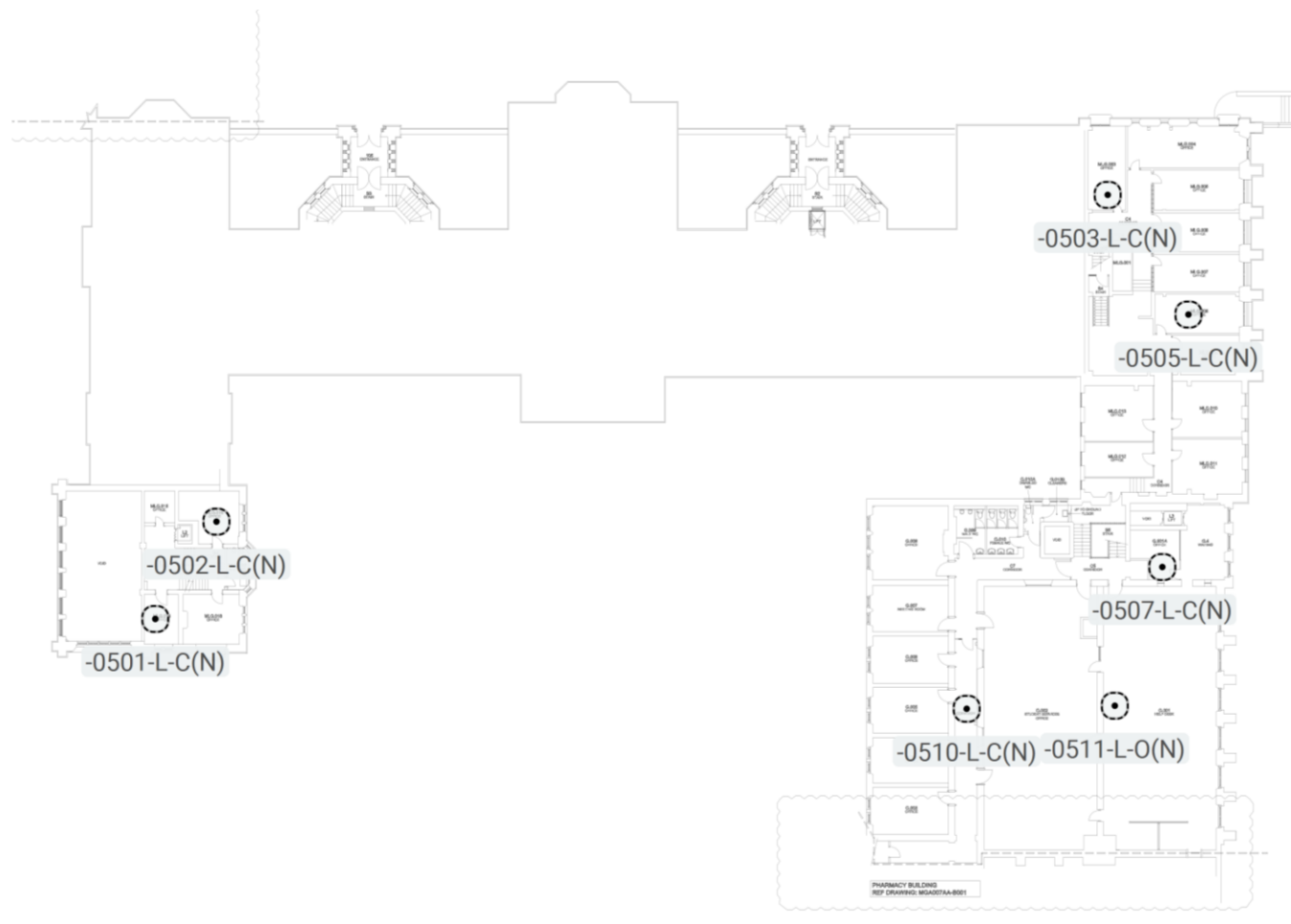
AP Name	Mounting	Location	Antenna Type
-1027-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
-1028-L-C(N)		John Owens - Level -10 - Lower Ground Floor	Internal

3 AP Locations

3.1 John Owens - Level -05 - Lower Ground Mezzanine





AP Name	Mounting	Location	Antenna Type
-0501-L-C(N)	There doesn't appear to be an alternative to this ceiling mounted position.	John Owens - Level -05 - Lower Ground Mezzanine	Internal



AP Name	Mounting	Location	Antenna Type
-0502-L-C(N)		John Owens - Level -05 - Lower Ground Mezzanine	Internal



AP Name	Mounting	Location	Antenna Type
-0503-L-C(N)	Ceiling mounted near to existing services.	John Owens - Level -05 - Lower Ground Mezzanine	Internal



AP Name	Mounting	Location	Antenna Type
-0505-L-C(N)		John Owens - Level -05 - Lower Ground Mezzanine	Internal



AP Name	Mounting	Location	Antenna Type
-0507-L-O(N)		John Owens - Level -05 - Lower Ground Mezzanine	Internal



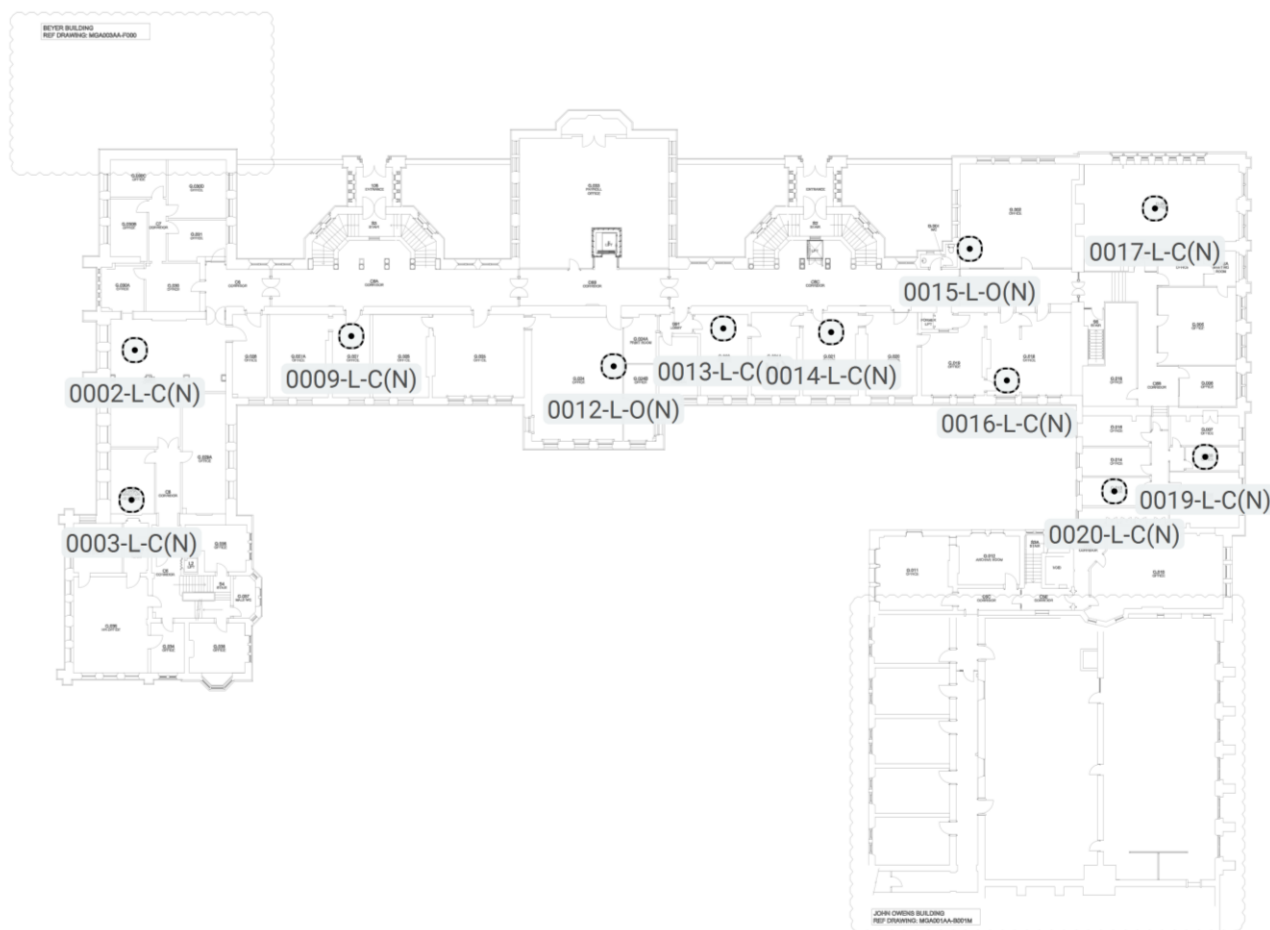
AP Name	Mounting	Location	Antenna Type
-0510-L-C(N)		John Owens - Level -05 - Lower Ground Mezzanine	Internal



AP Name	Mounting	Location	Antenna Type
-0511-L-O(N)		John Owens - Level -05 - Lower Ground Mezzanine	Internal

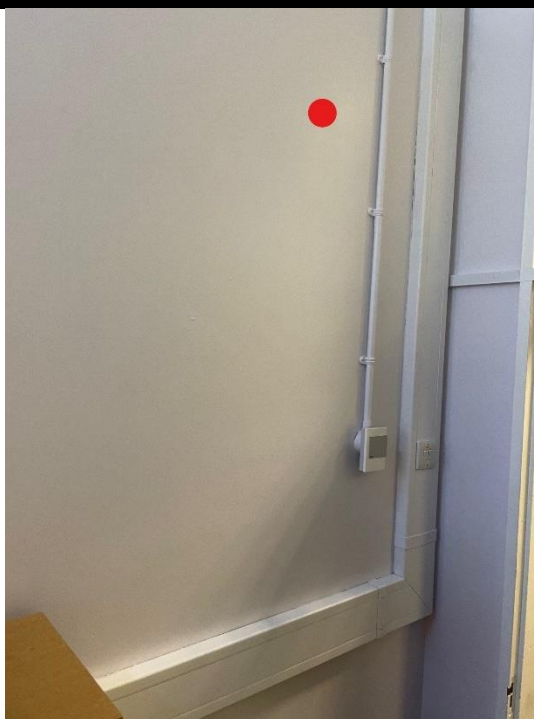
4 AP Locations

4.1 John Owens - Level 00 - Ground Floor





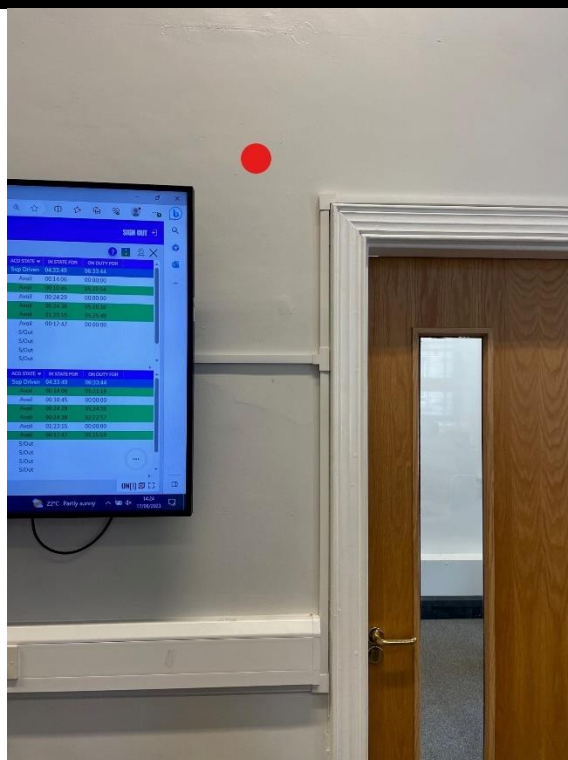
AP Name	Mounting	Location	Antenna Type
0002-L-C(N)	Higher than would recommend but false ceiling best option for mount.	John Owens - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
0003-L-O(N)	Wall mounted next to existing services and containment.	John Owens - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
0009-L-C(N)		John Owens - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
0012-L-O(N)	Wall mounted next to existing services and containment.	John Owens - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
0013-L-C(N)		John Owens - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
0014-L-O(N)	Wall mounted next to existing containment.	John Owens - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
0015-L-O(N)	Wall mounted next to existing services.	John Owens - Level 00 - Ground Floor	Internal



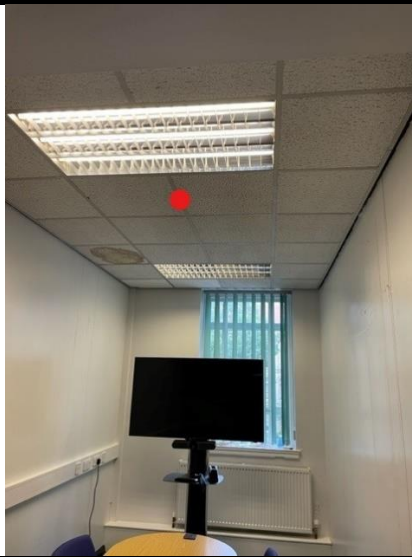
AP Name	Mounting	Location	Antenna Type
0016-L-O(N)	Wall mounted next to existing containment. Ceiling too high.	John Owens - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
0017-L-C(N)		John Owens - Level 00 - Ground Floor	Internal



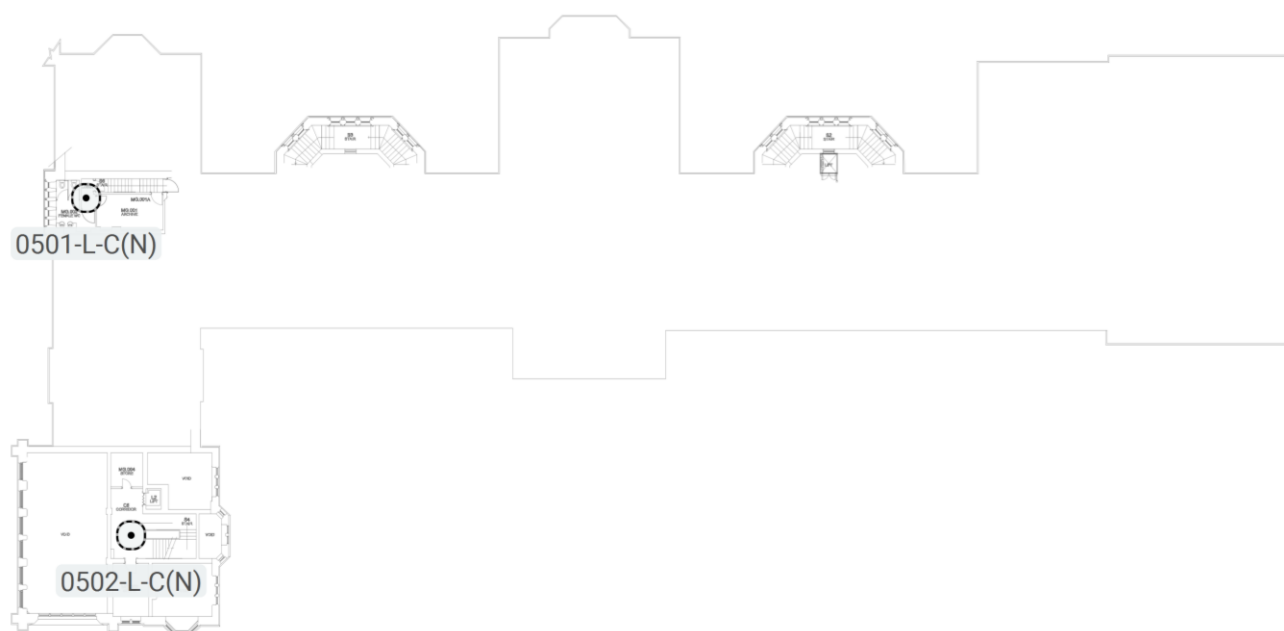
AP Name	Mounting	Location	Antenna Type
0019-L-C(N)		John Owens - Level 00 - Ground Floor	Internal



AP Name	Mounting	Location	Antenna Type
0020-L-C(N)		John Owens - Level 00 - Ground Floor	Internal

5 AP Locations

5.1 John Owens - Level 05 - Ground Floor Mezzanine





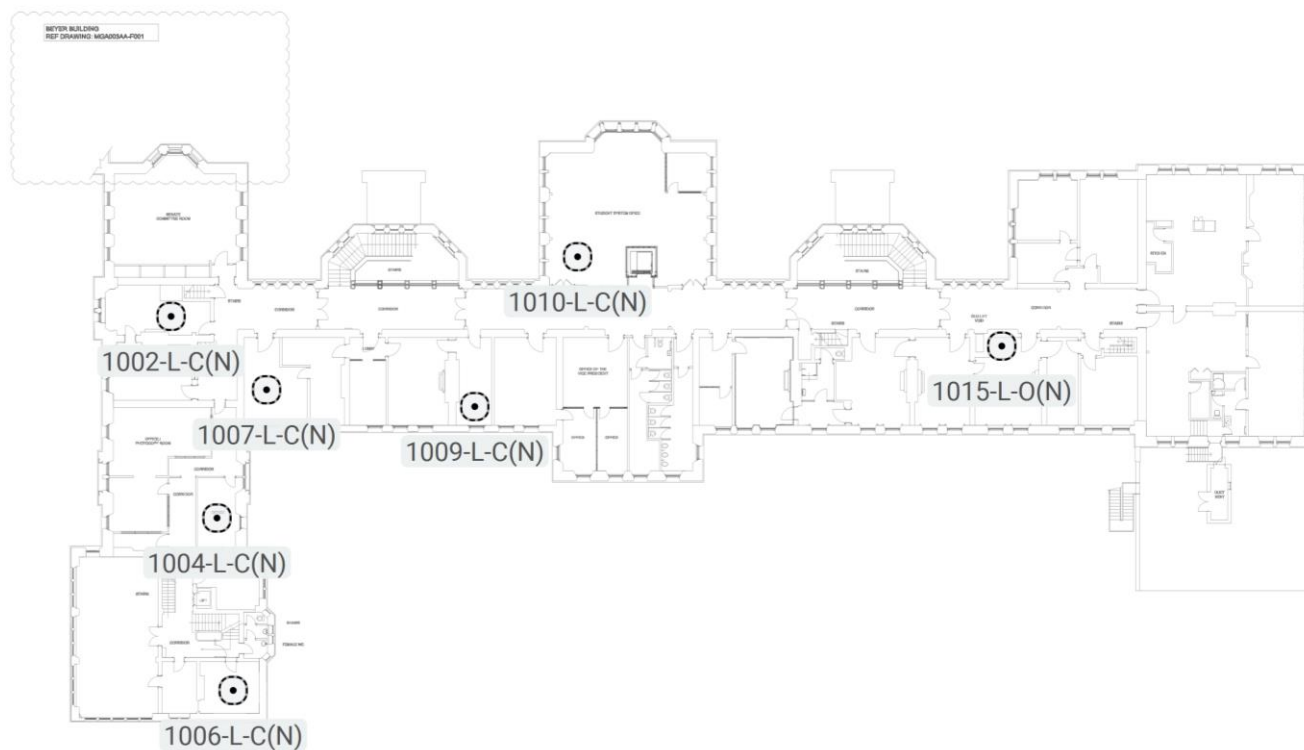
AP Name	Mounting	Location	Antenna Type
0501-L-C(N)		John Owens - Level 05 - Ground Floor Mezzanine	Internal



AP Name	Mounting	Location	Antenna Type
0502-L-O(N)	Wall mounted next to existing services/containment.	John Owens - Level 05 - Ground Floor Mezzanine	Internal

6 AP Locations

6.1 John Owens - Level 10 - First Floor





AP Name	Mounting	Location	Antenna Type
1002-L-C(N)		John Owens - Level 10 - First Floor	Internal



AP Name	Mounting	Location	Antenna Type
1004-L-C(N)		John Owens - Level 10 - First Floor	Internal



AP Name	Mounting	Location	Antenna Type
1006-L-C(N)		John Owens - Level 10 - First Floor	Internal



AP Name	Mounting	Location	Antenna Type
1007-L-C(N)		John Owens - Level 10 - First Floor	Internal



AP Name	Mounting	Location	Antenna Type
1009-L-O(N)	Wall mounted next to existing containment. Possible use of existing data port.	John Owens - Level 10 - First Floor	Internal



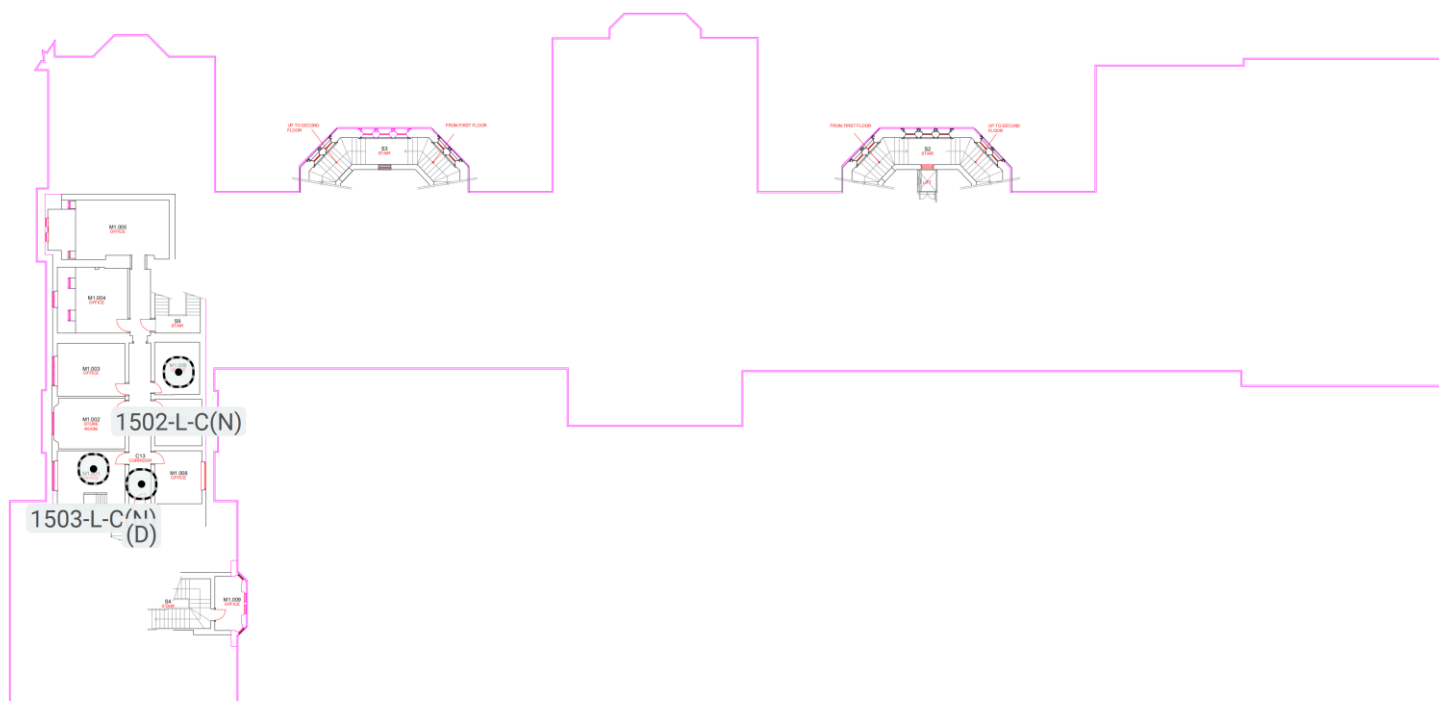
AP Name	Mounting	Location	Antenna Type
1010-L-C(N)	To be mounted to existing tray.	John Owens - Level 10 - First Floor	Internal



AP Name	Mounting	Location	Antenna Type
1015-L-O(N)	To be wall mounted next to existing containment.	John Owens - Level 10 - First Floor	Internal

7 AP Locations

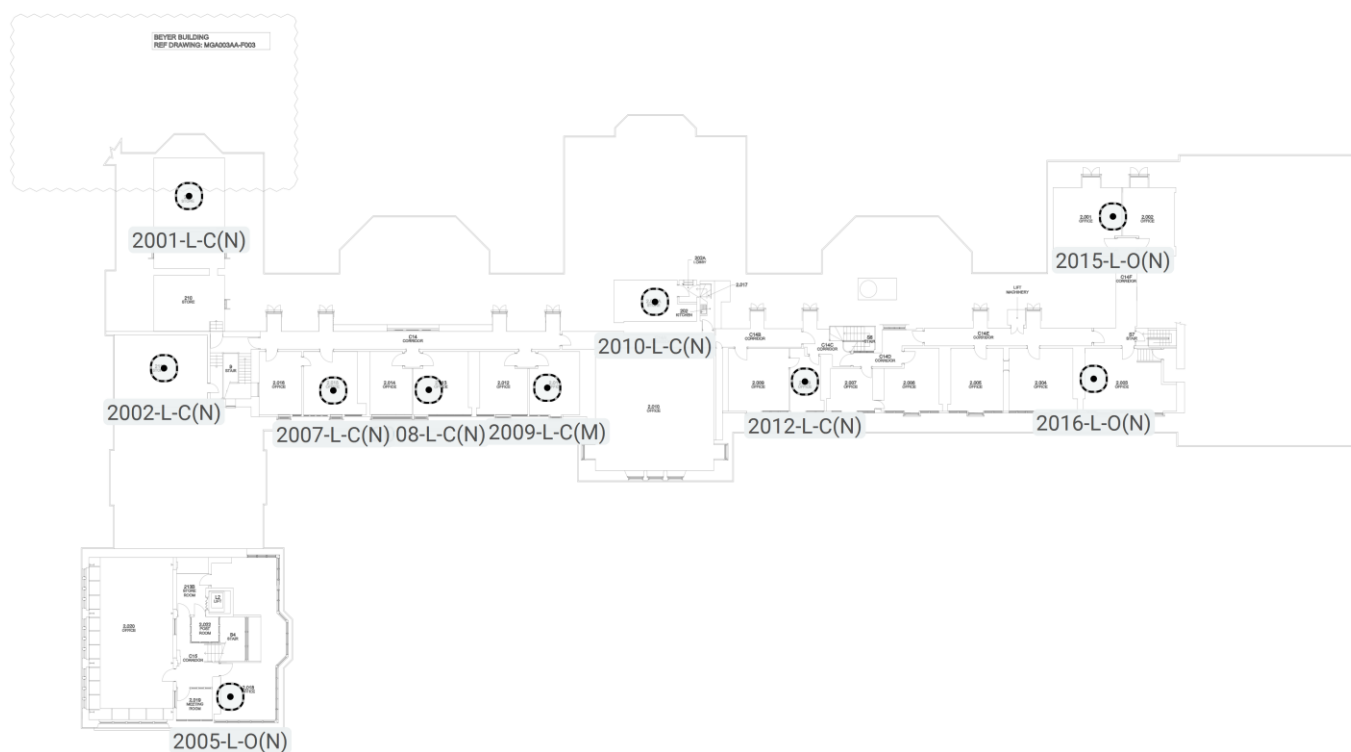
7.1 John Owens - Level 15 - First Floor Mezzanine



			
AP Name	Mounting	Location	Antenna Type
1502-L-C(N)		John Owens - Level 15 - First Floor Mezzanine	Internal
			
AP Name	Mounting	Location	Antenna Type
1503-L-C(N)		John Owens - Level 15 - First Floor Mezzanine	Internal

8 AP Locations

8.1 John Owens - Level 20 - Second Floor



[PHOTO UNAVAILABLE]

AP Name	Mounting	Location	Antenna Type
2001-L-C(N)	UoM have been unable to provide access to this room.	John Owens - Level 20 - Second Floor	Internal

[PHOTO UNAVAILABLE]

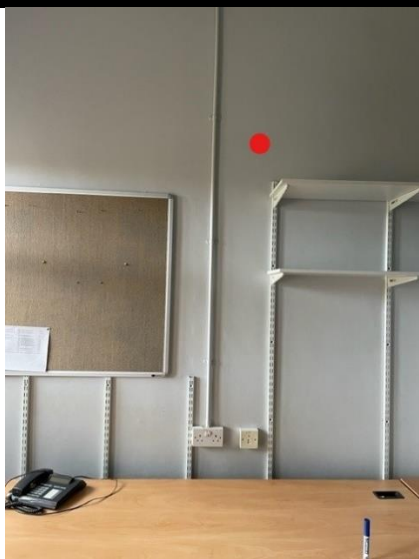
AP Name	Mounting	Location	Antenna Type
2002-L-C(N)	UoM have been unable to provide access to this room.	John Owens - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
2005-L-O(N)	Wall mounted near existing services/containment.	John Owens - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
2007-L-C(N)		John Owens - Level 20 - Second Floor	Internal

			
AP Name	Mounting	Location	Antenna Type
2008-L-O(N)	Wall mounted near existing containment and using existing data port if possible.	John Owens - Level 20 - Second Floor	Internal
			
AP Name	Mounting	Location	Antenna Type
2009-L-O(M)	Wall mounted next to existing containment utilising existing data port if possible. Existing AP is just outside this room on corridor.	John Owens - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
2010-L-C(N)		John Owens - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
2012-L-C(N)		John Owens - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
2015-L-O(N)	Wall mounted near existing services/containment.	John Owens - Level 20 - Second Floor	Internal



AP Name	Mounting	Location	Antenna Type
2016-L-O(N)	Wall mounted near existing services/containment.	John Owens - Level 20 - Second Floor	Internal