



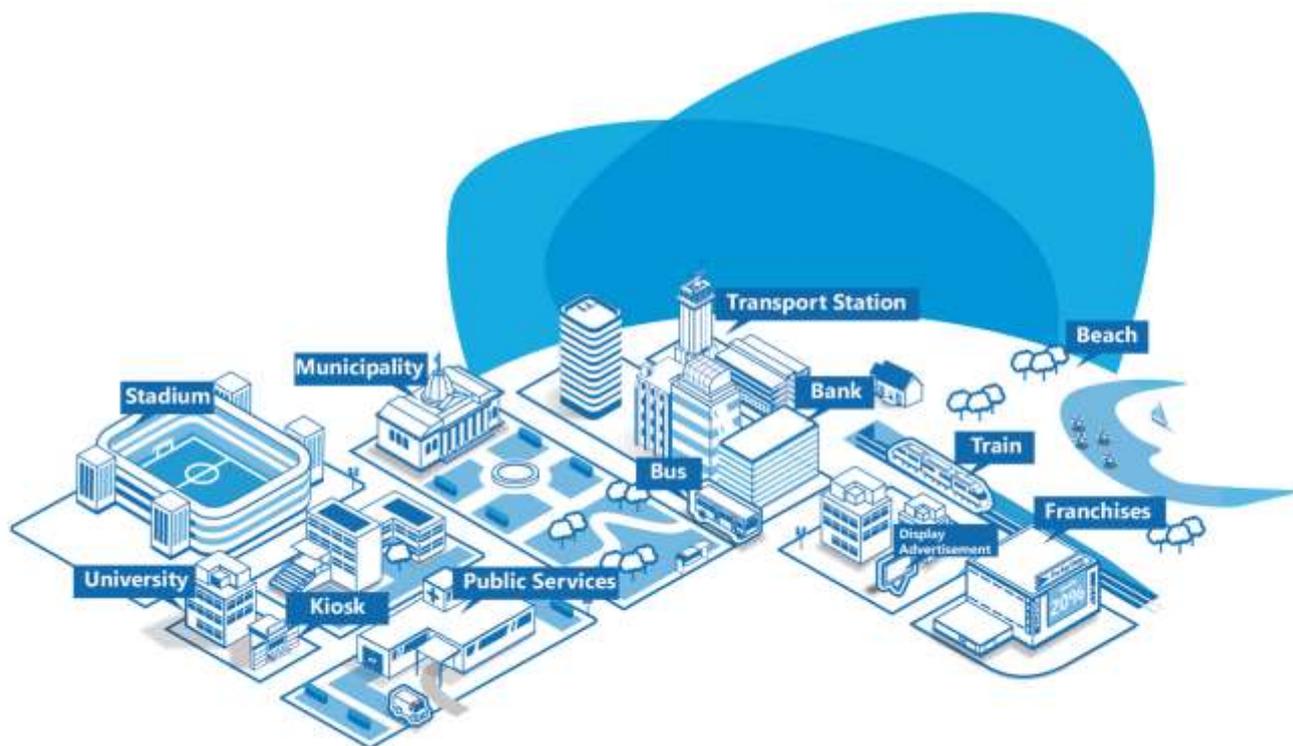
Testing manual

IP66 outdoor AP



Testing Manual IP66 outdoor AP

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Date	29 – January – 2014
Written by	Jesus Valverde Romero
Checked by	Javier Larrea Egurbide
Signed by	Luis Manuel Calvo Díez



Contents

- 1. Objectives4
- 2. Scope4
- 3. Procedures4
 - 3.1. Unboxing the devices and mounting the antennas4
 - 3.2. Connecting the AP5
 - 3.3. Measuring the power consumption6
 - 3.4. Test completion and preparing for a new test7

1. Objectives

To ensure that all tests are performed following the same procedures.

2. Scope

This testing manual applies to the IP66 outdoor AP manufactured by GOWEX WIRELESS SLU that GOWEX UK LTD intends to deploy for the wireless installations in UK.

3. Procedures

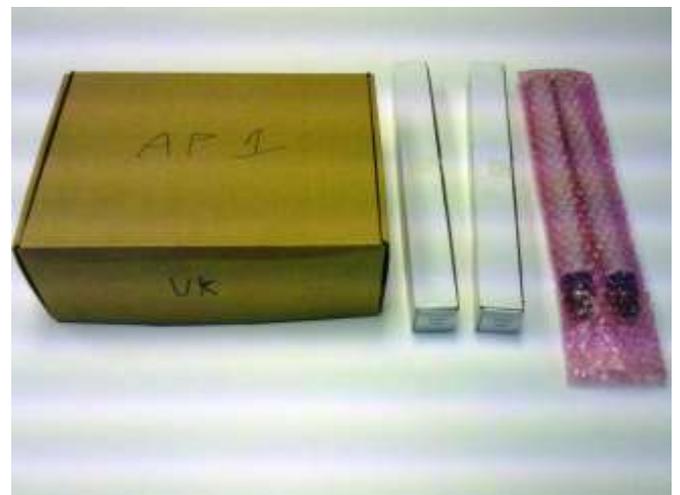
3.1. Unboxing the devices and mounting the antennas

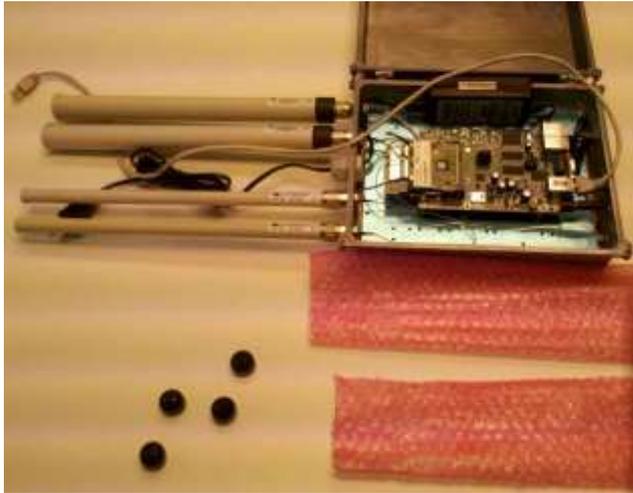
Devices were sent in a set of five [5], which mean the box contains:

5x IP66 outdoor AP

10x 2.4GHz WiFi antenna

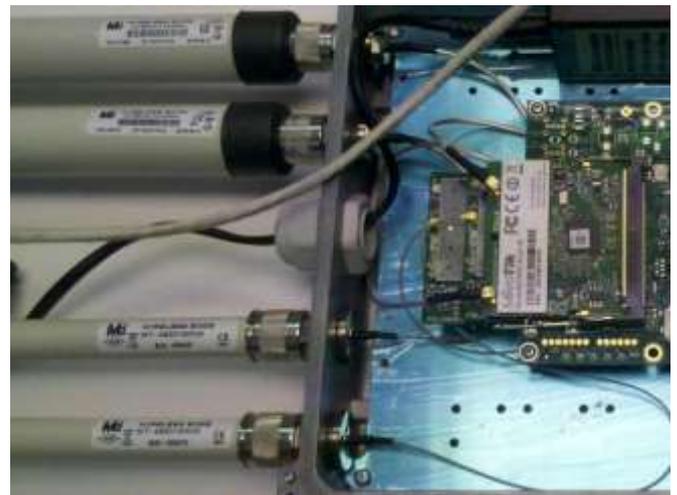
10x 5GHz MESH link antenna





The antennas need to be properly connected, because they work in different frequencies:

- WiFi antennas work into 2.4GHz frequency band.
- MESH antennas work into 5GHz frequency band.



As shown on the pictures, WiFi antennas, with Reference number: MT-341017/N/A (the thickest one), shall be connected on the two holes located at the left of the power cord location.

As shown on the pictures, MESH antennas, with Reference number: MT-482016/N/A (the thinnest one), shall be connected on the two holes located at the right of the power cord location.

3.2. Connecting the AP

There are five [5] different AP, in order to perform five different test.

The AP that is going to be tested needs to be connected through an Ethernet cable to a DHCP capable router.

After the AP that is going to be tested is properly connected, the secondary APs shall be powered on, in order to establish the MESH link.

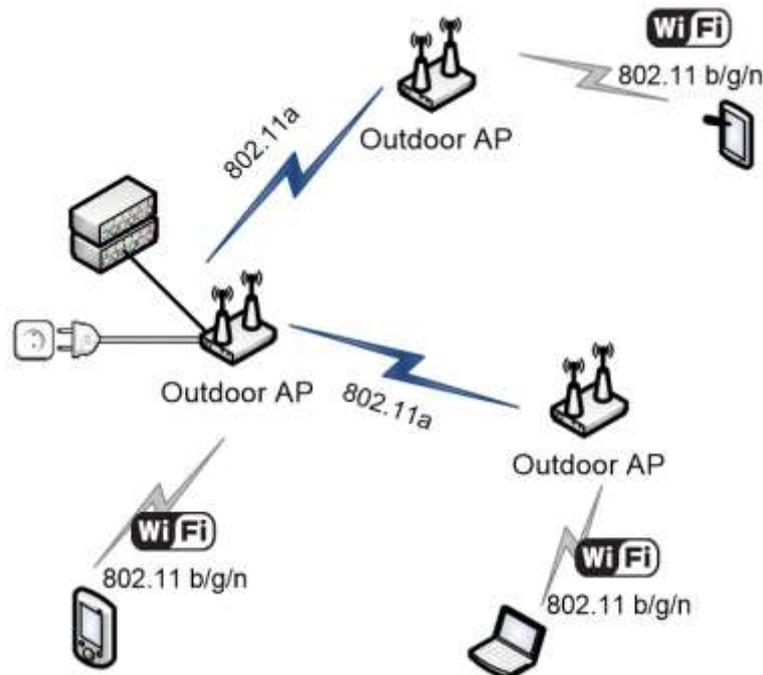
Once the three [3] AP are running, the test could start, connecting devices via WiFi.

These are the steps to follow, in order to perform the test:

1. Connect the Ethernet cable to the AP that is going to be tested.
2. Power on the AP that is going to be tested.
3. Wait for thirty [30] seconds.
4. Power on the auxiliary AP
5. Connect devices via WiFi to the AP that is going to be tested.
6. Connect devices via WiFi to the first auxiliary AP.
7. Connect devices via WiFi to the second auxiliary AP.

3.3. Measuring the power consumption

In order to assure all interfaces of the AP deal with traffic and so power consumption reflects wattage in real deployments, testing should be performed following this diagram.



When power consumption of AP1 is measured, there should be two [2] additional AP powered on, and three [3] devices (laptops, smartphones, portable gaming system or another WiFi capable equipment) that connects each one to a different WiFi SSID.

Access Point	WiFi SSID
AP 1	GOWEX_WiFi_1
AP 2	GOWEX_WiFi_2
AP 3	GOWEX_WiFi_3
AP 4	GOWEX_WiFi_4
AP 5	GOWEX_WiFi_5

3.4. Test completion and preparing for a new test

Once the test is finished and power consumption of the AP is measured, all the AP involved need to be powered off for one [1] minute or even more.

After the power off period and Ethernet connection changing to the next AP to be tested and repeat the steps in **3.2 Connecting the AP**



GOWEX

(SEDE CENTRAL) HEAD QUARTERS
Paseo de la Castellana, 21
28046 Madrid (Spain)
+34 91 360 14 70

✉ info@gowex.com
🌐 Lavidawifi.com
f [La Vida WiFi](https://www.facebook.com/LaVidaWiFi)
t [@gowex](https://twitter.com/gowex)

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