

PSA Case Study

IP-Com Wireless Data Solution

PROJECT:

Brookton Shire Offices, Western Australia

CONTRACTOR:

Ryan Terpstra
Full Power Electrics

NEED:

The Shire required increased internet speed at shire depot workshop without having to run new internet cabling. The existing service provided an extremely slow download speed of 1Mbps at the workshop. As the workshop will soon be undergoing major upgrades, the Shire required a cost-effective solution as a short/medium-term solution.

Internet speeds at the main office is very good however the main office was 418m away from the workshop and line of sight was impacted due to significant tree foliage between the 2 buildings.

SOLUTION:

A pair of IP-Com's AP625 outdoor point to point access points were deployed. These devices were selected for their high-performance specs of 5GHz frequency, maximum wireless speed of 433Mbps and a 16dBi directional antenna maximising reliable connection of up to 10km.

Both AP625's was installed on a 4m mast mounted on the roof of the main office & depot workshop however there was concern as clear line of sight was still affected by the tree foliage between the buildings.

RESULT:

Despite the tree foliage, the result was an outstanding success with download speeds at the workshop increasing to 31.43 Mbps which was only marginally down from the Shire Office speed of 31.65 Mbps. Brookton Shire and the electrical contractor were very satisfied with the cost-effective solution provided by PSA's IP-Com product solution.

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Picture 1

Distance between Shire Office (circled blue) and Shire Depot Workshop (circled red), approximately 418m.



Picture 2

View from Shire depot workshop looking towards direction of Shire office.

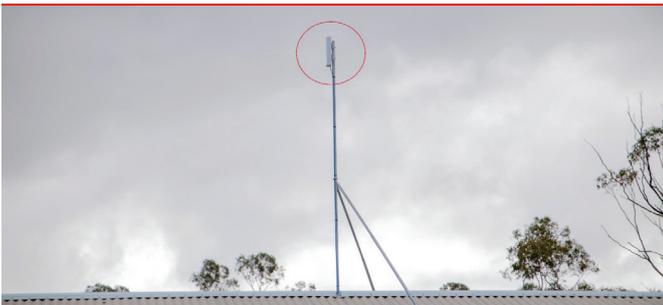
Note trees between buildings circled in red, blocking clear line of sight.

For clear line of sight, it was estimated via drone imaging that a 28m pole would need to be fitted which was not possible.



Picture 3

AP625 wireless point mounted on 4m mast on depot workshop roof receiving internet data from office.



Picture 4

AP625 wireless point mounted on mast on Shire office, transmitting internet data to depot workshop.



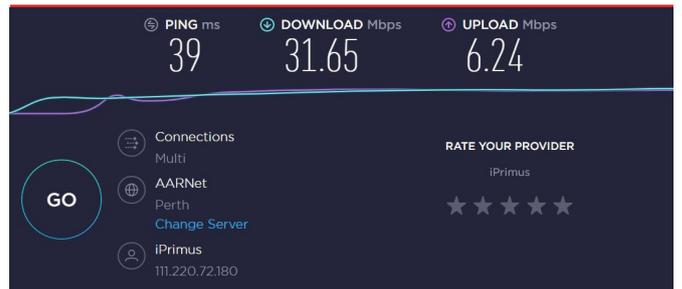
Picture 5

Close up image of AP625 mounted on Shire office mast



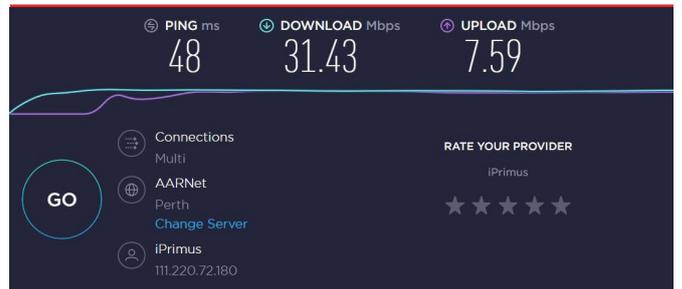
Picture 6

Tested internet speed at Shire office of 31.65 Mbps download



Picture 7

Tested internet speed at depot of 31.43 Mbps download, only a marginal drop from office speeds.



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