

# Wireless Access Point Tips

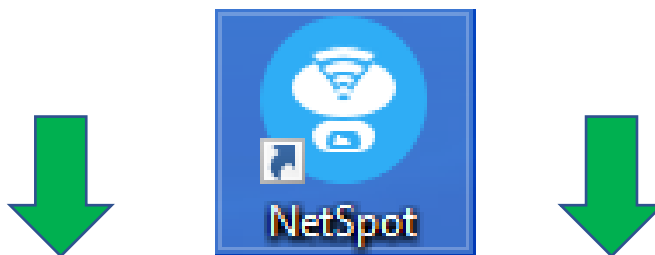
- Be aware, some site layouts may require a second Wireless Access Point to be installed for the signal to reach all fueling points. This must be noted in the survey.
- Mount the Access Point securely inside the store, along the wall/window nearest the dispensers.
- The Access Point requires an ethernet cable to be pulled from an internet source. Depending on the site setup, we can obtain internet access via the network switch, or an MNISP such as Mako or PDI.
- The building materials of your station can cause varying degrees of wireless signal interference or blockage. Concrete, brick, and other dense materials are infamous for blocking Wi-Fi signals. Also, avoid mounting the access point behind any metal structures, such as air conditioning ducts and wire meshes.
- Electrical appliances such as microwave ovens, freezers, neon signs, TV's, speakers and others can have a negative impact on wireless performance. Whenever possible, the access point should be placed as far away from these devices as possible.
- Generally, the higher an antenna is above the ground, the better it performs. We recommend a minimum of 7' high, or 6" below the ceiling.
- Do not to place the antennas straight upward, but at an angle against the horizontal line. The recommended angle is from 45 degrees to 60 degrees.



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We recommend temporarily mounting the Access Point in its proposed location and measuring the signal strength at the dispensers. The easiest way to do this is to download a WiFi analyzer app for your laptop or smart phone, such as the free edition of [NetSpot](#). If the signal strength is weak, you may have to relocate the Access Point.

- Signal strengths above **-60 dBm** are recommended for proper operation.
- Signal strengths between **-60 and -67 dBm** may encounter issues.
- Signal strengths between **-68 and -100 dBm** are generally unusable.

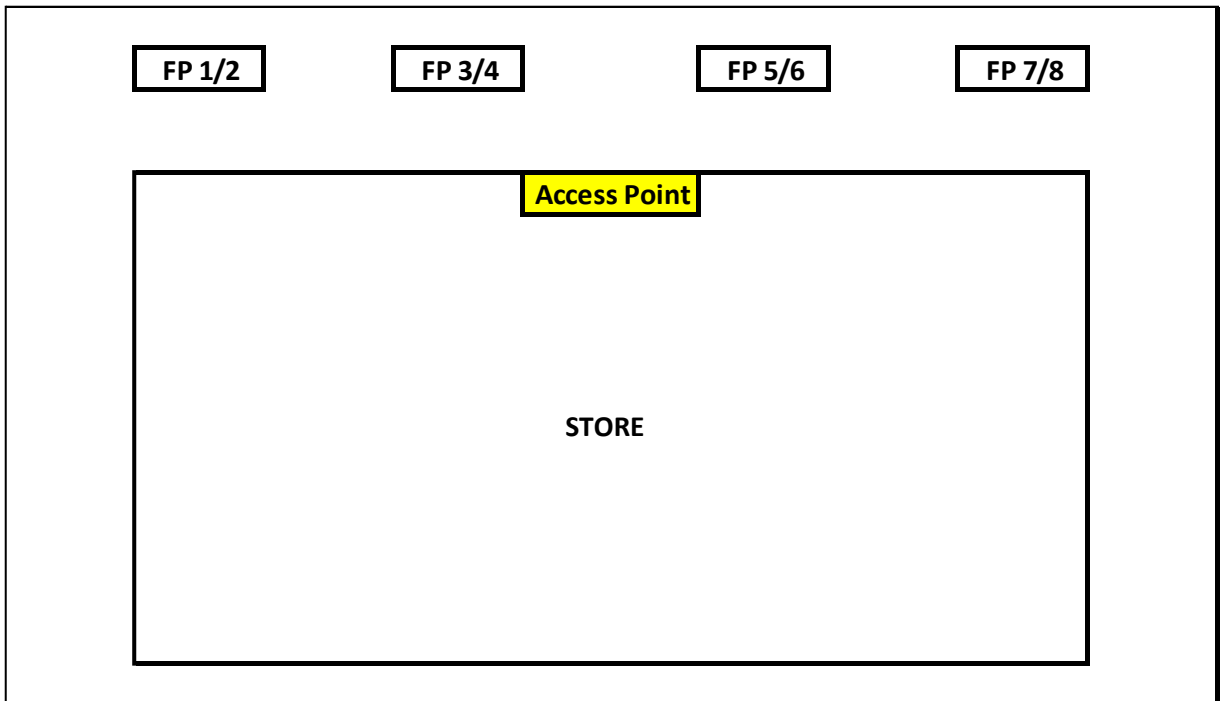
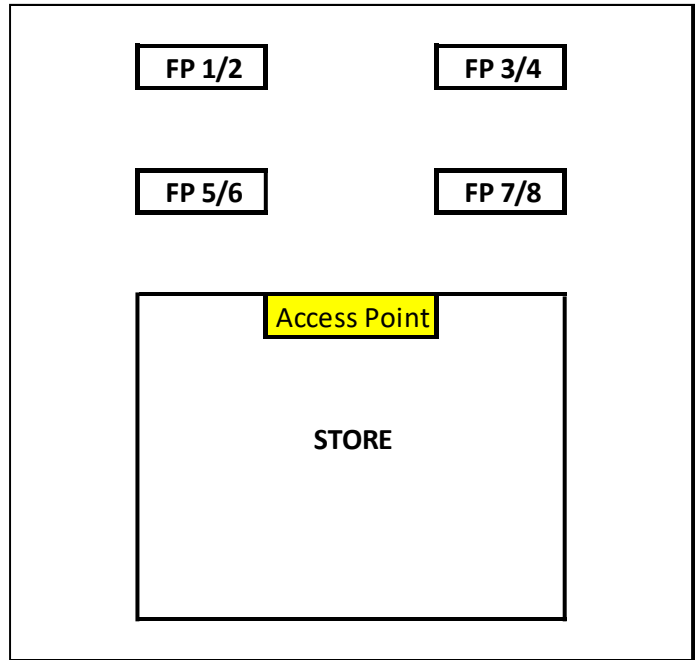
**SIGNAL STRENGTH IS VERY IMPORTANT AND MUST BE VERIFIED.**



Graph	Signal	%	Min.	Max.	Average	Level
	-37	69	-40	-31	-36	

# Wireless Access Point Tips

Standard site layouts  
that you will see.



# Wireless Access Point Tips

Site layouts that may require a second Wireless Access Point to be installed.

