

WZC | CASE STUDY



SMART Bus - Wireless Refresh

Full Wireless Refresh For SMART Bus

Project Scope

Coordinate and provide the management, pre-site survey, design, installation, commissioning, and post-site survey of a full wireless refresh. Project encompassed an estimated 472,449 square ft, 34 new indoor AP's, 39 outdoor AP's, over 200 estimated labor hours, and had a total budget of over \$200,000.



Single mode fiber for outdoor access points were installed and terminated as well as additional fiber runs for indoor access points as needed.

All new AP's were then staged and labeled.

All existing internal and external access points were uninstalled via ladder or lift, encompassing 34 external access points and 32 internal access points.

WZC technicians physically installed the estimated 39 new internal access points below the drop ceiling using standard AP brackets, based on approved design from the Pre-Site survey. Likewise, the estimated 41 external access points were physically installed via lift or ladder.

After installation, WZC patched into the existing network at each of the AP locations and noted the AP MAC addresses on excel spreadsheet.

Configuration was next for the WLAN SSID's of the new network along with configuration of the access point names (hostnames) on each access point at each site. Firewall installations were included in this configuration stage.

The final step was walking the building once more to conduct a Post-Site Survey. Post Site Surveys provide validation and review of the new and current design. Existing 2.4GHz & 5GHz wireless RSSI readings were recorded in all internal and external areas. Post Site Survey documentation was then created, including, heat maps of the readings and a recommendations text section.

Additionally, WZC offers training to the customer's IT staff on the newly installed network/wireless environment as part of the hand-off. This includes up to 2 four-hour training sessions on the features, interface, and basic use of the system.

Customer Bio

SMART, (Suburban Mobility Authority for Regional Transportation), is a regional bus system in Southeast Michigan. Their mission is to provide the southeast Michigan region with high-quality, safe, and cost-effective public transit that meets the needs of all its citizens, including seniors, people with disabilities, choice riders and those that are dependent upon public transit. Locations include the Buhl building, Macomb Terminal, Oakland Terminal, Royal Oak Terminal, and Wayne Terminal.