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Indiana Air National Guard Wireless LAN Phase II Install

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Indiana Air National Guard Wireless LAN Phase II Install

Final Project Report

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Submitted to:

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Abstract

Wireless IEEE 802.11 technology is not a new standard by today’s measurements. It’s origin goes back to mid-1997, providing small bandwidth and limited range. However, that technology was not very practical for use in a business aspect. With advancement in technology and modern implementation, it has shown to be a viable asset to provide connectivity to multiple users in a usable and secure way.

With bandwidth as high as, or higher in some cases, than most person’s at home internet speeds, Wireless LAN technology is proving to be cheaper and just as reliable as wired connections in an office and even educational settings. This project report is based on an Air National Guard wide project that is the second phase of an Air Guard wide installation and implementation of Wireless LAN.

With this project, focused at the 122d Fighter Wing in Fort Wayne, IN, they will be almost doubling their wireless access point count, tripling the amount of users that can access the wireless LAN, and installing and configuring a redundant system in case of equipment failure or so technicians can perform upgrades and maintenance while minimizing downtime.

Disclaimer: As some of the information contained below is sensitive information, for security reasons, some information has been omitted, cannot be fully described or has been changed.
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