

This is real world company where the lead engineer redesigned the corporate network to implement Payment Card Industry Data Security Standards (PCI-DSS). This is one of about a dozen diagrams created to show the scope of work for a corporate network that spanned about a 25-mile radius. Single mode fiber (SMF) and multimode fiber (MMF) were used extensively. Physical security, network segmentation, and Vlan's were used extensively, as was multiple firewalls and multiple security systems. Security systems included but were not limited to IPS, SIEM, and encryption. Not all security systems are shown in this diagram. The PCI-DSS project had a budget of \$1.5 million. The fiber project was a different project with its own budget of \$2.5 million.

## Proposed Network Changes for PCI Compliance

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