

Deployment of Secure VoIP Networks Over Zone Cabling Applications

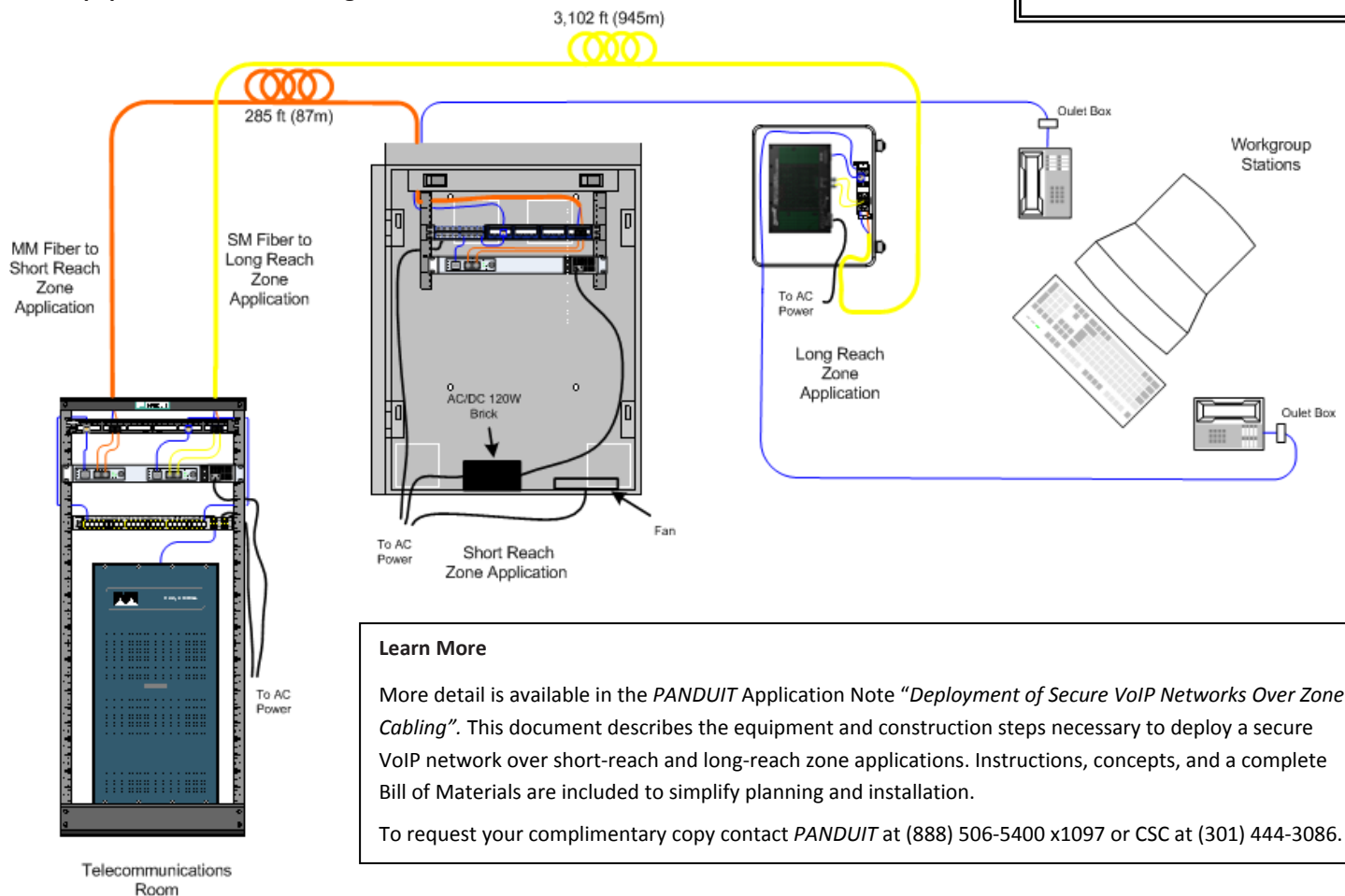
The growing requirement for secure voice communications has created the demand for cost effective, easy-to-deploy Voice over Internet Protocol (VoIP) solutions for the Department of Defense and Federal Government. A VoIP network can easily be implemented as a retrofit in “Brownfield” applications or integrated in new “Greenfield” applications and facility construction or modernization.

For SCIFs or C4ISR applications, the use of fiber optic trunk cables enhance the security of the voice or data network due to the cable’s inherent resistance to EMI/RFI interference and the elimination of any compromising emanations. In secure voice and data networks, fiber optic cables have become the network media of choice for cable runs from a Main Distribution Frame (MDF) switch to zone enclosures in SCIFs, remote work centers, and even satellite facilities - providing a high-bandwidth and secure connectivity across long distances.

Increase Availability with Zone Cabling Solutions

Zone cabling solutions enable the streamlined installation of all VoIP connectivity in a single trunk cable, supporting a group of individual users or even multiple work centers throughout the facility. Using a zone cabling architecture also enables the use of Power-over-Ethernet equipment to eliminate the need for remote powering of VoIP phones at each workstation and increases the reliability and availability of the secure voice network.

Diagram of secure VoIP network installation showing active equipment and zone cabling elements.



Products recently deployed in a secure VoIP network project:

- General Dynamics Sectera[®] viPer[™] Phones
- Transition Networks[®] Point System[™] Media Converter Chassis and Modules
- Transition Networks[®] Stand-Alone PoE Media Converter
- Cisco 3745 Multiservice Access Router^{*} with Cisco Call Manager and V150 emulation
- Cisco Catalyst 3750 Series 48-Port Switch
- PANDUIT Copper and Fiber Connectivity (cables, patch cords, modular patch panels, outlets)
- PANDUIT Cable Routing Systems (racks, raceway)
- PANDUIT[®] DPoE[™] Compact 8 Midspan and Power Supply
- PANDUIT[®] PANZONE[™] Enclosures

Learn More

More detail is available in the PANDUIT Application Note “Deployment of Secure VoIP Networks Over Zone Cabling”. This document describes the equipment and construction steps necessary to deploy a secure VoIP network over short-reach and long-reach zone applications. Instructions, concepts, and a complete Bill of Materials are included to simplify planning and installation.

To request your complimentary copy contact PANDUIT at (888) 506-5400 x1097 or CSC at (301) 444-3086.