



IP Fundamentals for Security Professionals

Overview

The security industry is changing rapidly. Traditional CCTV systems are being combined with IP cameras over an IP network to create hybrid surveillance systems. In more and more instances, customers are requesting pure IP based video surveillance systems. This has created new opportunities to integrate security systems into existing data networks using well established technologies. In order to continue to compete and to increase business, security solution providers are taking courses with ABP Technology to train their businesses in IP networking & video surveillance over IP.

Objective

This course enables participants to understand the fundamentals of networks, hardware devices TCP/IP Ethernet networks and troubleshooting. The class is tailored to professionals in the CCTV analog based solutions to move your business to IP based security based systems. This class will help you understand enough about IP networks to sell and install IP based video Surveillance systems.

Upon successful completion of this course, you will:

- Understand what makes a network and the different networking topologies.
- Understand IP LAN and WAN terminologies.
- Before they will let you Walk the Walk you need to know how to Talk the Talk. What you need to know to talk to the Customers Network Staff.
- Understand the benefits of moving to IP video Surveillance Solutions.
- Understand the difference in a Centralized vs Decentralized Architecture.
- Megapixel cameras and how they impact the network and storage requirements.
- Know what it takes to build a LAN and WAN and WIFI network.
- Remote and local monitoring options for Video



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Agenda

IP Fundamentals for Security Professionals is a one day class, comprised of two modules.

9:00 AM – 12:00 PM

Module 1: IP Networking Fundamentals

- What is a TCP/IP Network?
- Networking Technologies Overview
- LAN and WAN network topology
- DNS, DHCP, IPV4, HTTP, NTP, IPV6, FTP,
- Routers, Switches, Firewalls, Redundant Internet, QOS, PoE Bandwidth Management
- Using Ethereal to monitor and diagnose IP Traffic.

12:00 PM – 1:00 PM

- Lunch

1:00 PM – 5:00 PM

Module 2: IP Video Surveillance Solutions. Understand the issues and discover the solutions you can sell and deploy for your customers

- Why move to IP? More and more of your customer's will demand you provide IP based solutions. What are the benefits over Analog CCTV?
- Migrate / Integrate / Replace Analog to IP. What are the issues?
- Megapixel video and how it impacts storage issues and network issues. What you need to consider. What are the solutions to the issues you can propose and win?
- Centralized vs Decentralized Video Surveillance Architecture
- NAS Storage and solutions to save storage space for
- POE switches and Battery Backup. Build the network from the ground up. Start with a network that can handle the demands imposed by real time Voice and Video traffic.
- Ways to increase your reach - WiFi and line extenders.