Highly Scalable Layer 2 Core Network Configurations for IP Surveillance

Layer 2 Core — Layer 2 PoE Edge Station

CORE
- Layer 2+ capabilities
- Industry standard AlliedWare Plus™ CLI and Web management interface
- Industry highest copper/fiber port options per switch
- Advanced network management
- Advanced network security
- Quality of Service (QoS)
- Access Control Lists (ACLs)
- Eco-Friendly “Green” switch
- Low power consumption

ACCESS
- Layer 2+ capabilities
- Extensive Power over Ethernet (PoE) options
- Stackable and standalone switching solutions
- Extensive port speed and cabling options
- Secure encrypted Web and CLI management with SSHv2 and SSL
- Quality of Service (QoS)
- Access Control Lists (ACLs)

PROFESSIONAL SERVICES
- Basic network design and Bill of Materials (BOM) generation
- Extended warranties
- Flexible phone support options
- Pre-staged product shipments
- Remote network support and configuration options
- On-site network support and configuration options

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Solutions | IP Video Surveillance

Small-Sized Network Solution

In a security camera installation with a limited number of cameras, a small to medium group of Layer 2 switches can be ideal. This is due to simplified network configurations and maintenance.

Reference solution

The diagram shows a solution using an AT-9000/28SP series switch at the core of the network with AT-8000GS/24PoE, AT-8000S/48PoE and AT-8000/8PoE at the access edge of the network.

Benefits

AT-9000 is a series of high performance Eco-Friendly “Green” Gigabit Ethernet L2+ switches with Quality of Service (QoS) and L2 multicast forwarding and filtering. The switch brings advanced enterprise features to a more affordable level to improve the delivery of converged data. Security protocols such as SSL, SSH and SNMPv3 facilitate the protection of the network for both local and remote connections.

AT-8000S and AT-8000GS are a series of high performance stackable Fast Ethernet and Gigabit Ethernet L2+ switches that support IGMP snooping and IEEE 802.1x port-based authentication.

Access Control Lists (ACLs) enable inspection of incoming frames and classify them based on various criteria. Specific actions can then be applied to these frames in order to more effectively manage the network traffic.

AT-8000/8PoE is an eight port PoE switch that includes an extensive range of management features including Web-based management, Command Line Interface (CLI), SNMP and Telnet. Richly equipped with features normally found on higher-priced products the AT-8000/8PoE switch supports RADIUS, VLAN tagging, GVRP, LACP and IEEE 802.1x authentication.

Solution summary

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<th>Single box solution, easy to manage, advanced security, QoS and PoE ports</th>
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<td>Core: AT-9000/28SP, Access: AT-8000GS/24PoE, AT-8000S/48PoE, AT-8000/8PoE</td>
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<td>Key features</td>
<td>Layer 2+, IGMP snooping, IGMP query, advanced security and QoS</td>
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Layer 2+ Core with Layer 2+ PoE Access Edge Station

| AT-9000/28SP               | Layer 2 Core
|                           | 28 port Gigabit Ethernet Eco-Friendly “Green” switch with 24 SFP ports and 4 active combo ports |
| AT-8000GS/24PoE           | Layer 2 Access
|                           | 24 Port Gigabit Ethernet PoE Switch with 4 standby SFP ports |
| AT-8000S/48PoE            | Layer 2 Access
|                           | 48 Port Fast Ethernet PoE switch with 2 active combo ports |
| AT-8000/8PoE              | Layer 2 Access
|                           | 8 port Fast Ethernet PoE switch with 1 active combo port |

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