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Aruba’s S3500 Mobility Access Switches enable secure, role-based network access for wired users and devices, independent of their location or application. Aruba’s Mobility Controller eliminates the need to manage and provision separate wireless and wired access policies. The result is a workforce that has consistent, secure access to network resources based on who they are — no matter where they are. CDW's Aruba® Sales Specialists can help you find the right solution for your unique wireless network.

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At the heart of every organization lies the network. From government agencies and healthcare facilities to businesses large and small, when the network stops, the pulse of the organization stops with it. Revenue and resources are lost. Opportunities are missed. Customer, client and constituent relationships are jeopardized. And productivity flatlines.

The network is overworked.

Network loads are expected to increase 1000 percent from 2009 to 2014.1

There’s a lot riding on your network. And today, more than ever, networks must be agile and dynamic to meet the increasing demands of an ever-changing workplace. Networks must connect mobile workers and enable a distributed global workforce. They must support new IT initiatives such as virtualization, unified communications and cloud computing. They must accommodate bandwidth-hungry, next-generation applications as they become increasingly more complex. They need to be scalable, available, reliable and responsive.

Simply put, your network needs to be optimized. WAN optimization, application optimization and secure wireless can help you get there. And our solution architects can guide you along the way. From assessment and planning to implementation and support, they’ll help you design a network optimization solution that strikes a balance between increased network capabilities and improved ROI.

We optimize overextended networks — and support the overextended IT staff who maintain them.

It’s network optimization. Solved.

To learn more about CDW’s Networking Solutions, visit CDW.com/datacenterguide or contact your CDW account manager or call 800.800.4239.

Data centers are consolidating. Workforces are becoming more dispersed. Organizations are expanding on a global scale. Today’s wide area networks (WANs) are required to do more than ever, and eventually, over-utilization can start to take its toll. Buying up more bandwidth only solves the problem temporarily. A WAN optimization solution helps prepare your network for the long haul. It improves bandwidth, reduces latency and conserves costs while ensuring flexibility, reliability and speed.
APPLICATION OPTIMIZATION:

TRADING LOW PERFORMANCE FOR HIGH AVAILABILITY.

As applications become more crucial to organizations, their ability to function efficiently and reliably has become increasingly important as well. But variables such as excessive web traffic, large file transfers, repeated transmissions of similar data and global centralization of branch offices can threaten to slow things down, resulting in application latency and long response times.

As a result, application optimization technologies such as application control engines (ACEs) and wide area application services (WAAS) have become one of the fastest growing network solutions in today's data center. These technologies aim to accelerate applications and decrease their response times over WAN connections. They also provide additional security features for the applications and improve availability to end users.

- **Faster application deployment**: IT departments can dynamically respond to changing operational demands by rapidly provisioning the network infrastructure. This helps bring applications into production in a more time-sensitive and cost-effective manner.
- **Improved ROI, efficiency and utilization**: Organizations can reduce costs associated with scaling server farms and centralized applications by optimizing the use of existing server resources and offloading non-essential server functions to the network.
- **Increased staff and end-user satisfaction**: Improved application response times result in higher staff and end-user satisfaction, increased productivity and greater operational efficiency for the entire organization.

NEXT-GENERATION TECHNOLOGIES:

**Application Control Engines (ACEs)**

By offloading server processing of web-based applications from web servers, ACEs help maximize throughput, acceleration, availability and security for critical operations applications. This uses existing data center resources more efficiently and provides redundancy for network applications while improving their overall resiliency.

**Wide Area Application Services (WAAS)**

WAAS is an application optimization product from Cisco that accelerates applications, optimizes bandwidth, reduces latency and improves end-user experiences over the WAN. It centralizes applications and storage in the main data center while maintaining response times to those of a local area network.

CDW Network
Health Check

Before mapping out an application optimization strategy, it's critical to assess the types of traffic on your network, how it is being accessed and routed, and where bottlenecks appear. We can conduct a comprehensive network audit with in-house staff or through a third-party provider.

Cisco WAAS appliances can achieve five times the performance with up to 2Gbps optimized WAN throughput.


Boost Productivity Without Compromising Security.

The new age of wireless networks and mobile devices gives employees the option to take their work wherever work takes them. Smartphones, tablets and notebooks in hand, they are working across the country and around the globe. Unfortunately, without a highly secure wireless network in place, they don’t always bring security with them.

As a result, IT departments must gain greater visibility into their wireless network activities, monitoring where it is being accessed and how data is being used. CDW can help enhance your wireless network with capabilities such as centralized wireless local area network (WLAN), asset tracking and Voice-over-IP (VoIP) applications to help you keep an eye on your wireless network and provide some much-needed insight.

Maintain Control by Monitoring Your Network Activities.

Centralized WLAN

Know what is trying to access your network

A centralized WLAN acts as a central repository for all software, configurations and device settings. This enables it to handle the configuration of up to 500 wireless access points—all automatically. In addition to centralized manageability, it also provides enhanced security through improved visibility. Because near-constant communication occurs between the access points and the WLAN controller, the controller will also have a view into the wireless space around the entire organization. Reports and alerts can be generated when threats, such as rogue access points or ad-hoc computer networks, are detected. These can then be contained to prevent insecure connections to the LAN and protect the organization as a whole.

Asset Tracking Devices

Know where your wireless devices are going

Real-time locating systems (RTLSs) are another popular capability provided by unified wireless networks. They use access points to triangulate device locations, making it possible to track, in real-time, the location of all wireless assets within a given area. This includes all Wi-Fi® enabled devices (notebooks, barcode scanners, VoIP phones and devices with active radio frequency ID (RFID) tags) as well as non-Wi-Fi® enabled devices with RFID tags. Such devices can subsequently be located in real-time or tracked over time, allowing personnel to replay a device’s location history over a defined amount of time. Alerts can even be generated based on a device’s location, notifying IT if a device leaves the building or enters a restricted area.

VoIP

Keep remote workers within reach

With the increasing popularity of VoIP telephony systems, many organizations have sought ways to provide these services to their mobile users. Utilizing the wireless network to achieve this goal has proven very successful. For example, users of wireless VoIP phones can roam throughout a facility during the workday while remaining accessible to their coworkers and valuable to the organization. Such a strategy makes everyone more efficient. With the recent introduction of dual-mode phones, the popularity of voice-over-wireless applications will only continue to grow. These phones can operate over both cellular and Wi-Fi networks. This allows users to consolidate their voice devices and carry one phone for both in the office and out.

*CDW Networking and Unified Communications Reference Guide
Our teams of experts can guide you through an initial discovery session to give you a clear view of your existing network, then help you design and implement a solution to maximize your network and prepare it for the future.

**Support across the IT Lifecycle**

We provide full lifecycle technology services, including presale assessments, configuration and installation, hosted and managed services, system and application design workshops, training and ongoing support.

**Industry-Leading Products and Vendor Partnerships**

Our strong partnerships with leading manufacturers like HP, IBM, and Microsoft allow us to provide cutting-edge technology products, solutions and services to our customers, helping to achieve your IT goals and organizational objectives.

**Proven Track Record of Solving Complex IT Problems**

When you work with us, you get access to our account teams, highly certified solution architects, engineers and dedicated solution practices to help you solve your toughest technology problems. We have the awards and certifications to prove it.

**CDW SUPPORT FOR NETWORK SERVICES**

From beginning to end, our Professional Services can provide professional expertise across all major phases of your networking solution, including:

- **Resilient Networks**
  - We can help boost resiliency of your critical IT networks when you are:
    - consolidating from multiple sites to a more centralized model
    - implementing a new data center or upgrading an existing one
    - moving to a new location or acquiring another company

- **Application Optimization**
  - We can help you optimize your existing system resources to improve application performance when you are:
    - interested in telecommunication initiatives
    - interested in centralizing data, services and applications

- **Storage Networking**
  - We can simplify management, cut costs and adapt to your growing storage needs when you are:
    - implementing or upgrading a Storage Area Network (SAN)
    - installing iSCSI, Fibre Channel or Fibre Channel over Ethernet (FCoE)
    - planning for business continuity and disaster recovery

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**AWARDS, CERTIFICATIONS & PARTNERSHIPS**

- HP Advanced Networking Partner
- HP Partner of the Year – 2010
- Cisco Small Business Partner of the Year – 2011
- Cisco Network Excellence Partner of the Year – 2011
- Cisco Central & South East Data Center Partner of the Year – 2011
- Accenture Bets Tier Partner of the Year – 2011
- Cisco Certified Network Administration (CCNA)
- Cisco Gold Certified and Advanced Technology Partner in Unified Contact Center Enterprise Network Hosted Storage, Rich Media, Outdoor Wireless Mesh, Customer Voice Portal

**TECHNICAL CAPABILITIES**

- 1,000+ Cisco Certified Sales Experts (CSEs)
- 200+ Cisco Certified Network, Data, Voice Professionals (CCNP/CCDP/CCVP)
- 55+ Cisco Certified Internetwork Experts (CCIE), the highest level of professional certification offered by Cisco
HOW WE DO IT

WE PARTNER WITH THE BIGGEST NAMES IN NETWORKING:

Elite Partner Networking

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