



## DS Series Solutions

Integrated Solutions for Secure, Centralized  
Data Center Management

## DS Series Solutions

### IT Infrastructure Management Tools to Reduce IT Operational Costs and Increase IT Productivity

Many of today's enterprises rely on Avocent DS Series solutions to ensure efficient, reliable and secure IT infrastructure management. DS Series solutions offer IT professionals a robust, scalable management system of appliances and software that complements traditional network-based systems and strategies.

DS Series solutions reduce IT operational costs and increase IT asset productivity by providing the tools necessary to quickly access, troubleshoot and restore IT assets across the enterprise, whether close at hand or around the globe.

#### DS Series solutions include

- DSView® 3 management software
- DSR® KVM over IP switches
- Cyclades® ACS advanced console servers
- Cyclades PM power intelligent power distribution units (IPDUs)
- MergePoint™ 5200 series of service processor (SP) managers

### Centralize Your Management Solution with DSView 3 Management Software

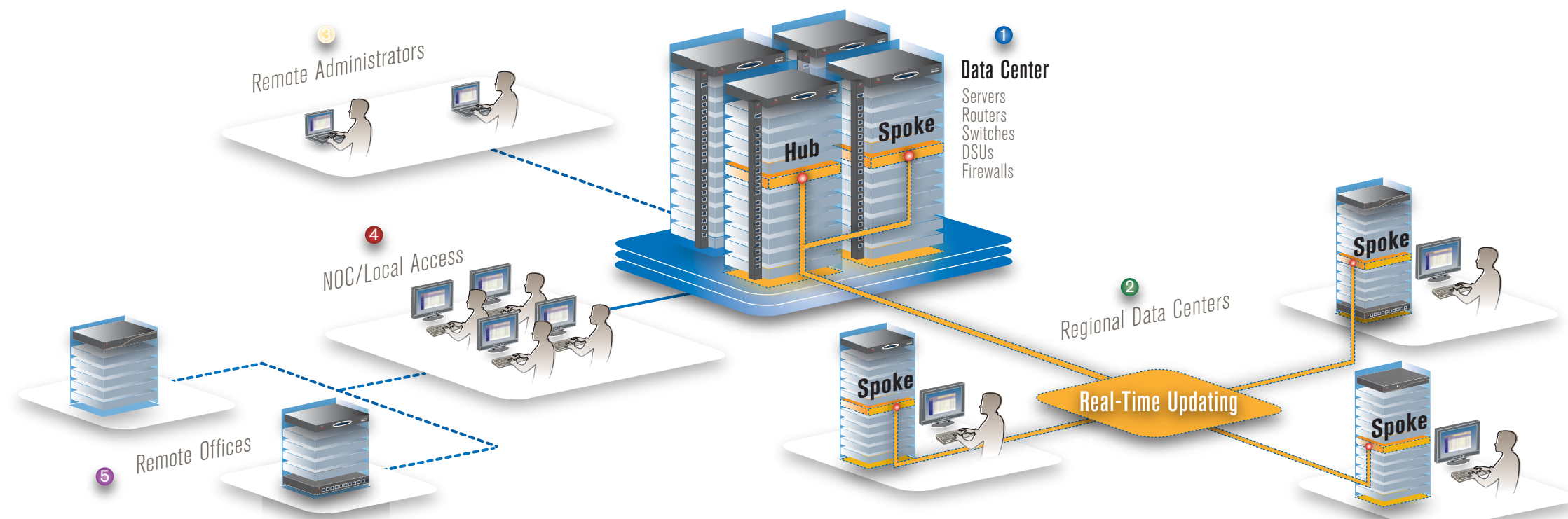
DSView 3 management software enables secure, centralized management of all connected IT devices in today's complex data centers. When used in conjunction with any DS Series solution, DSView 3 software allows IT administrators to remotely access, monitor and control target devices on multiple platforms – anywhere, anytime – through a single, Web-based user interface.

#### Hub and Spoke Architecture

The power of DSView 3 software is its "hub and spoke" architecture that provides active/active redundancy – a fully redundant, replicating database system. Users authenticate to a central management hub server or one of 15 mirror spoke servers if the primary server is down. This provides real-time updates, redundancy and load balancing across multiple sites.

#### Other System Features

- Secure, remote management of your entire IT infrastructure (KVM, serial, integrated power, as well as iLO, IPMI and other service processors) from a single interface
- Auto discovery of appliances
- Diagnostic testing from your desktop – across the hall or around the globe
- Detailed audit logs and reporting
- Automated updates, file loading and scheduling
- Simultaneous firmware updates
- Selectable encryption modes (AES, DES, 3DES, 128bit SSL) to support your security policy
- Authentication against existing services (LDAP, Active Directory, NT Domain, RADIUS, TACACS+, and RSA SecurID)
- SNMP traps and e-mail notification



#### 1 Data Center

DS Series solutions are IT infrastructure management tools for access and control of multiple IT devices. A variety of DS Series appliances connect to many devices through different interfaces.

#### 2 Regional Data Centers

DS Series solutions enable IT administrators to access and manage any size data center. Regional data centers can be managed in the same way as major centers.

#### 3 Remote Administrators

With the power of IT access, IT administrators with access to the IP network can manage any device anywhere as if they were physically present at the device.

#### 4 NOC/Local Access

For IT administrators at the data center, DS Series appliances provide local console access in addition to IP access.

#### 5 Remote Offices

With the variety of appliance models, your existing management infrastructure can be extended to any number of devices in different remote locations, allowing IT administrators to reach out to any device in the enterprise.

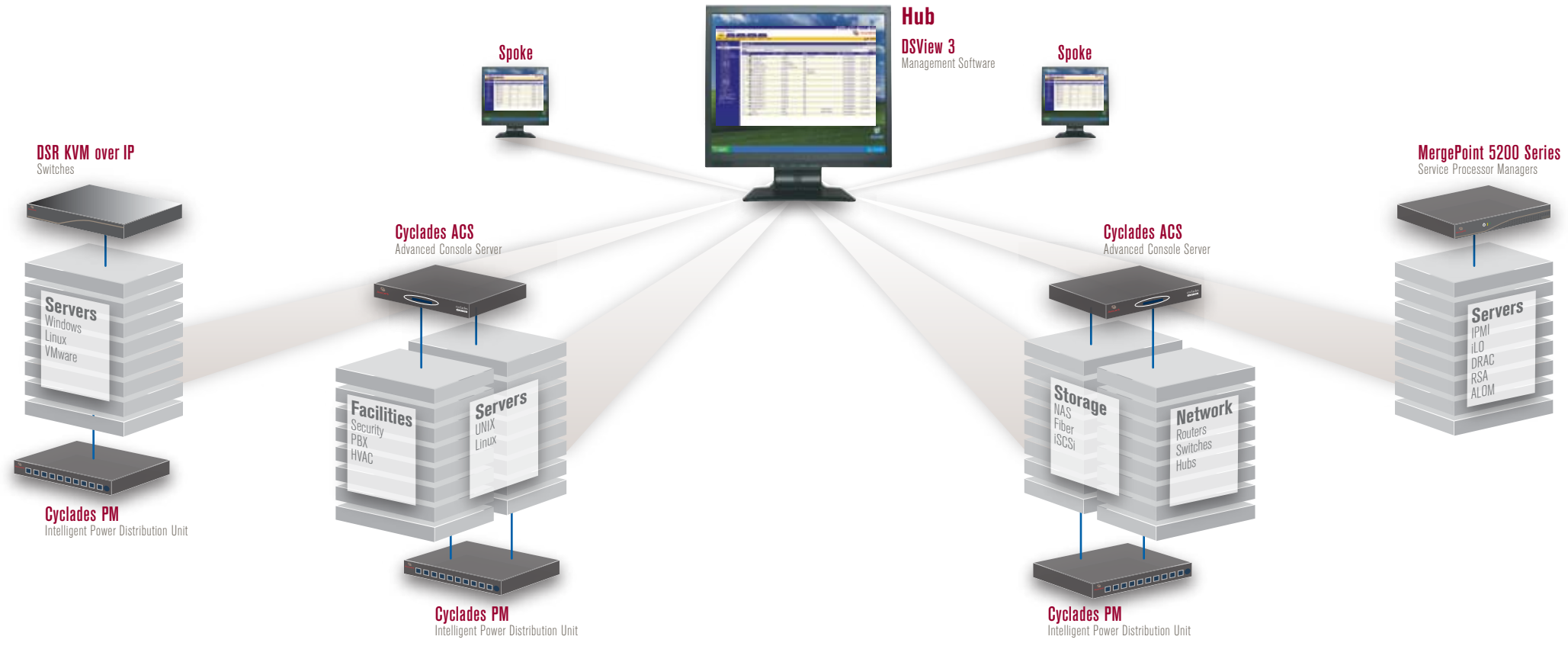
## A Complete IT Infrastructure Management Solution

### IT Infrastructure Management Tools

IT infrastructure management tools complement existing network-dependent systems management tools with out-of-band access. Out-of-band access provides an alternate path for IT administrators to troubleshoot and restore critical assets, wherever they are located, saving valuable time, money and resources.

#### Benefits

- Reduce IT operational costs
- Increase IT productivity
- Reduce risk



### Enterprise KVM Solutions

**DSR KVM over IP switches** provide reliable analog and digital switching solutions for multiplatform, multilocation and multidevice access and control.

#### Features

- BIOS-level control and power cycling of connected servers
- External modem support
- On-board Web interface
- Ability to remotely load software for file transfers, applications and OS patches with Virtual Media through DSView 3 software
- Diagnostic testing with Virtual Media through DSView 3 software
- Exit macros

### Console Management

**Cyclades ACS console servers** provide secure, remote access to IT assets and console port management for serial-based servers and network appliances.

#### Features

- Secure in-band and out-of-band access
- Centralized management from a single interface with DSView 3 software
- Integrated remote power control with PM IPDUs
- Real-time monitoring and event notification
- Data logging
- Windows EMS support

### Power Management

**Cyclades PM IPDUs** enable secure, remote power management and control of servers and network gear.

#### Features

- On-demand power management from a console or KVM session through a user-defined "hot key"
- Intelligent, flexible outlet management from a simple GUI
- Real-time monitoring and event notification
- Daisy chaining for up to 128 outlets

### Service Processor Management

The **MergePoint 5200 series of service processor managers** enables secure, remote server management using embedded server management technologies such as HP iLO, IPMI, Dell DRAC, IBM RSA and Sun ALOM.

#### Features

- Single console for multiple service processor types
- Serial over LAN (SoL), power control, hardware monitoring and alerts, all in one turnkey solution
- SoL with data logging for better auditing and faster troubleshooting
- Significant reduction in service processor deployment costs
- Integration with DSView 3 management software

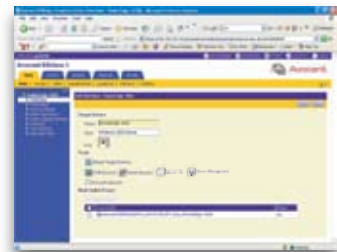
### DS Series Solutions Features

- Comprehensive centralized management through a single, Web-based user interface
- Reliable failover capabilities through hub and spoke architecture
- Service processor management for lower mean time to repair (MTTR), reduced operational costs and improved IT productivity
- Remote console and power management for efficiency and control
- Enterprise KVM solutions for BIOS-level control of servers from anywhere
- Advanced security for user access and control

## DS Series Implementation

### DS Series Solutions Benefits

- Complement existing network-dependent tools
- Manage heterogeneous equipment and environments
- Access and support multiple remote locations
- Ensure security and regulatory compliance
- Access everywhere
- Fully utilize existing resources
- Reduce IT operational costs and increase IT productivity



### DSView 3 Management Software

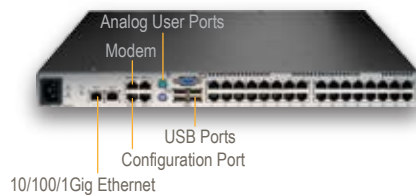
DSView 3 software enables secure, centralized management of all connected IT devices in the data center.

Add-on software licenses are offered for 1, 5, 10, 25 and 50 users. Spoke, hub and user licenses are also available in various configurations as well as power management option licenses and various data logger license fees for 8, 32, 64, 128 and 256 concurrent user connections.

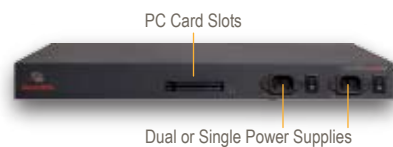


### DSR KVM over IP Switches

DSR KVM over IP switches provide remote access and management of all connected servers in the data center.

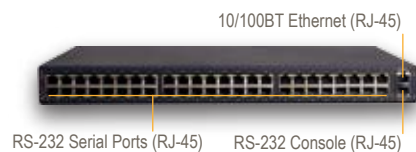


Various models are available for both enterprise and branch environments, some with Virtual Media capability. These models are offered in 1-, 4-, 8-, 16- and 32-port configurations with 1, 2, 4 or 8 digital users and 1 local user.

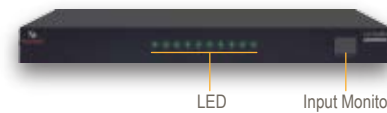


### Cyclades ACS Advanced Console Servers

Using a hardened Linux® operating system, Cyclades ACS console servers provide secure, remote data center management and out-of-band management of serial-based IT assets.

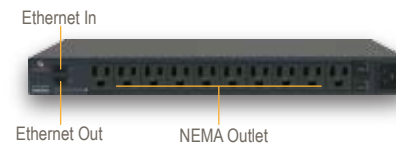


Available in 1-, 4-, 8-, 16-, 32- and 48-port models in 1U form factor, with single and dual power AC/DC options and PC card support.

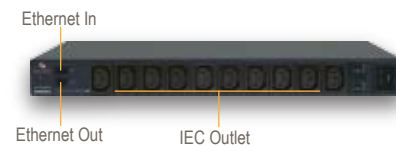


### Cyclades PM IPDUs

Cyclades PM IPDUs enable remote power management and control of servers and network gear. Both NEMA and IEC models are available.



The NEMA models are equipped with 5-15R power outlets and fixed power cables, and are available in 15A, 20A and 30A capacities with optional twist-lock input plugs. Each model includes two RS-232 ports: one for management and the second for daisy-chain expansion of up to 128 power outlets. This model operates in 100-125 VAC environments.



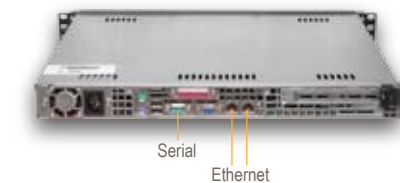
The IEC models are equipped with IEC320-C13 power outlets and either IEC320 modular inlets or fixed power cables, and are available in 10A, 15A, 16A, 20A, 30A and 32A capacities. Each model includes two RS-232 ports: one for management and the second for daisy-chain expansion of up to 128 power outlets. This model operates in 100-240 VAC environments.

### MergePoint 5200



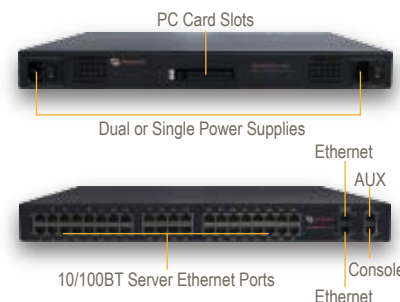
### MergePoint 5200 Series of SP Managers

MergePoint 5200 series of service processor managers enables secure, remote server management using service processor technologies such as HP iLO, IPMI, Dell DRAC, IBM RSA and Sun ALOM.



Several models are offered to address the different challenges present in specific service processor deployments. The MergePoint 5200 appliance provides logical consolidation of service processors that already have a connection to the Ethernet infrastructure. The MergePoint 5224 and 5240 appliances provide physical connectivity as well as consolidation, which significantly reduces the Ethernet switch port costs of deploying service processors.

### MergePoint 5224/5240



### Why Avocent

For more than 20 years, Avocent has provided IT managers in many industries with centralized management solutions to access and control their critical IT assets. Currently, 93 percent of Fortune 100 companies use Avocent solutions in their IT infrastructures.

Our DS Series solutions feature enterprise KVM solutions, console management appliances, power management devices and embedded server management products, all controlled by DSView 3 management software.

Avocent continues to introduce new technologies that advance centralized data center management through our unique hub and spoke multiple failover architecture. Now more than ever, IT managers have a clear choice in how best to manage their growing data centers. There is an Avocent solution for every data center or location, no matter the size.

### About Avocent

Avocent delivers IT operations and infrastructure management solutions for enterprises worldwide, helping customers to reduce costs and simplify complex IT environments via integrated, centralized in-band and out-of-band hardware and software. Through LANDesk, Avocent also is a leading provider of systems, security, and process management solutions. Additional information is available at [www.avocent.com](http://www.avocent.com).



**Avocent**  
The Power of Being There.®

Corporate Headquarters  
4991 Corporate Drive, Huntsville, AL 35805  
TEL 866.277.1924 FAX 256.430.4030  
[www.avocent.com](http://www.avocent.com)

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## DATA CENTER SOLUTIONS

*Our customers turn to us for productivity improvements in the data center. TPI's expertise guarantees your IT data center project will be successful: on time, on budget and meet your ROI requirements.*

*TPI's data center experts provide:*

- ✓ *KVM over IP solutions*
- ✓ *Out-of-band console management*
- ✓ *Enhanced security and Sarbanes-Oxley compliance*
- ✓ *Comprehensive environmental assessments*
- ✓ *Power management*
- ✓ *Console and command center solutions*
- ✓ *LAN cabinets and server racks*
- ✓ *Tech-benches and media storage*
- ✓ *Asset tracking*
- ✓ *Backup tape products*
- ✓ *Compliance Vault e-mail archiving*
- ✓ *Comprehensive supply programs*

*TPI can share best practices in data center management. Our expertise allows you to shorten your learning curve and increase your IT productivity.*

Product specification sheet provided by TPI



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**888-488-4244**

