



The Power of Being There™



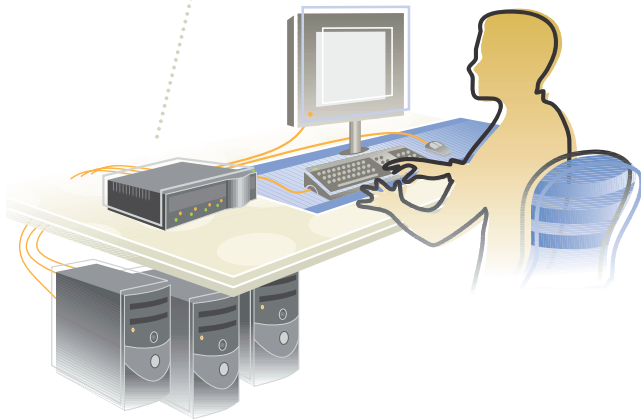
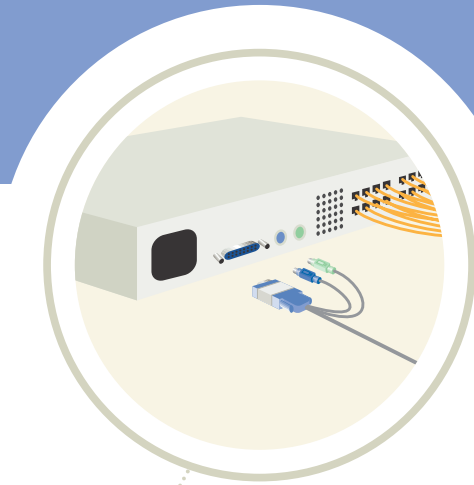
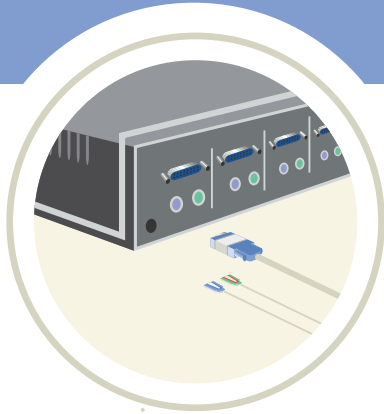
## **DS Series & AutoView 1000R/2000R**

### Setting New Standards in IP Access and Control

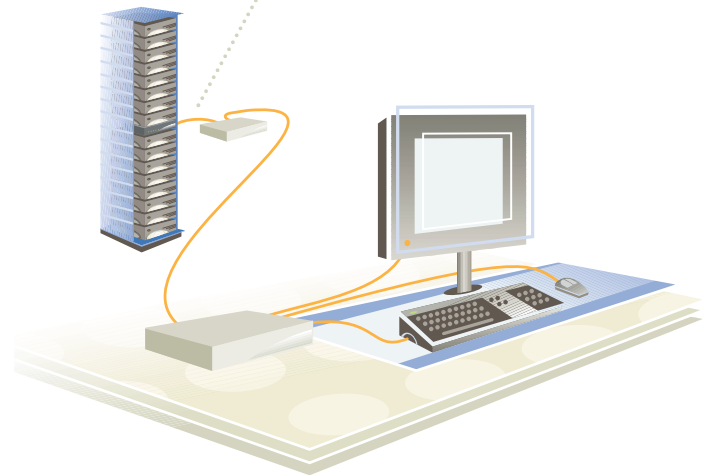
DSR • DS1800 • CPS • SPC • AUTOVIEW 1000R/2000R

SEE HOW AVOCENT IS CHANGING

# KVM switching



BASIC KVM



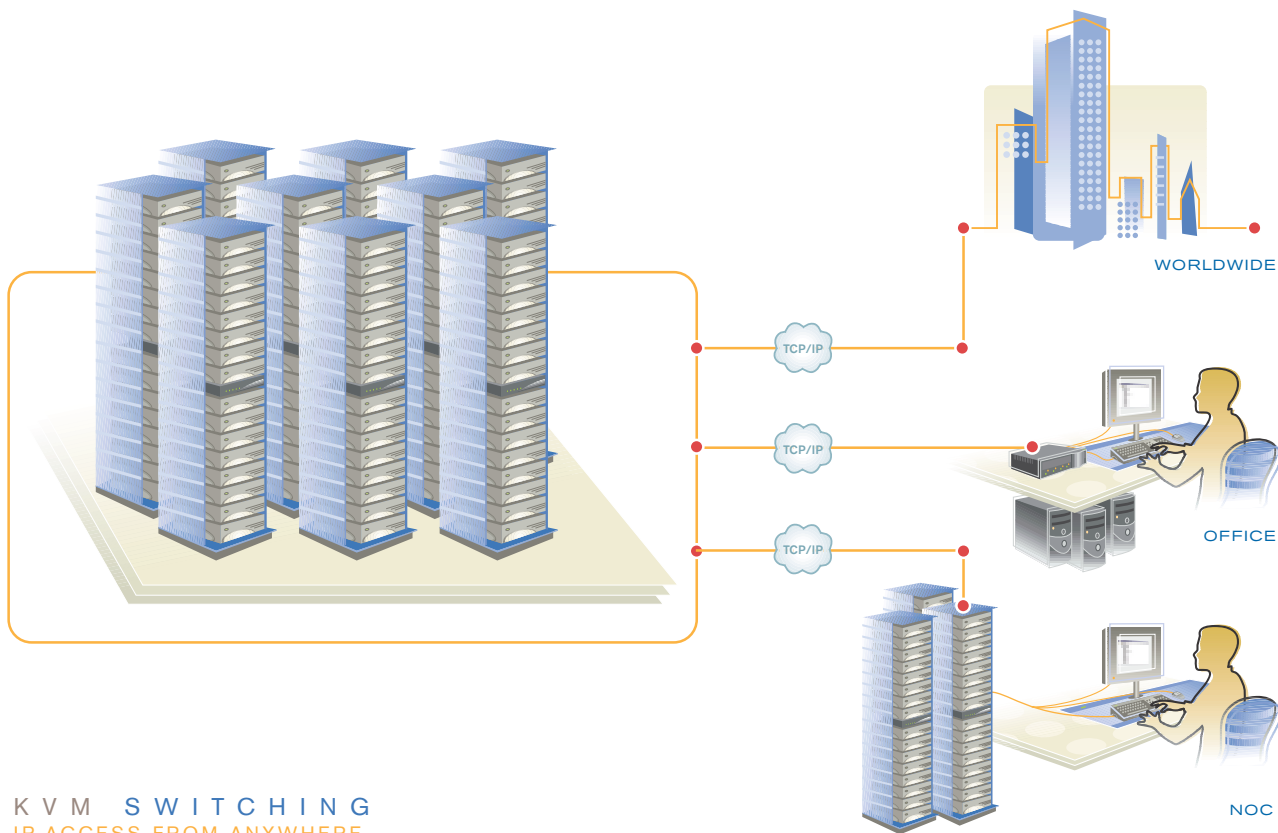
KVM SWITCHING  
EXTENDED ACCESS TO THE RACK

## HISTORY OF KVM

KVM switches eliminate extra keyboards, monitors and mice. Using only one keyboard, video monitor and mouse (KVM), administrators can control multiple computers from a single console. In rack installations, KVM switches allow administrators to gain BIOS level access and control of hundreds of servers - either at the rack or extended from the rack.

With today's advanced KVM OVER IP™ switching systems from Avocent, administrators can use standard IP connections to control almost any number of servers or network devices, regardless of where they are located. Distance limitations have been eliminated. KVM OVER IP switching has redefined data center access and control.

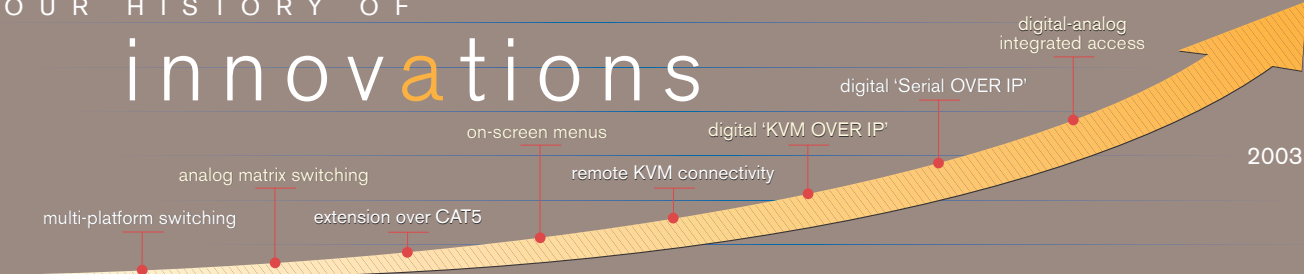
Avocent is the leading innovator of KVM switching systems. For more than 20 years, Avocent has been providing IT managers in any industry with access and control of their servers and network devices. Research and development is the backbone of Avocent products and serves as a promise to our customers. With thousands of installations worldwide, Avocent continues to set the pace in the KVM and network connectivity industry. No matter where you or your servers and other network devices are located, we will give you the power to be there.



**KVM SWITCHING**  
IP ACCESS FROM ANYWHERE

OUR HISTORY OF

# innovations



1981

- REMOTE ACCESS
- KVM SWITCHING
- CAT 5 CONNECTIONS

## AutoView

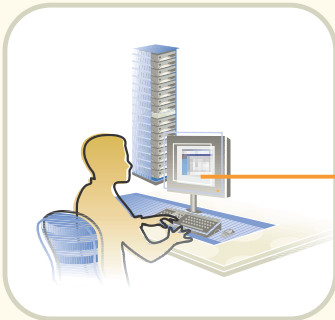
1000R • 2000R



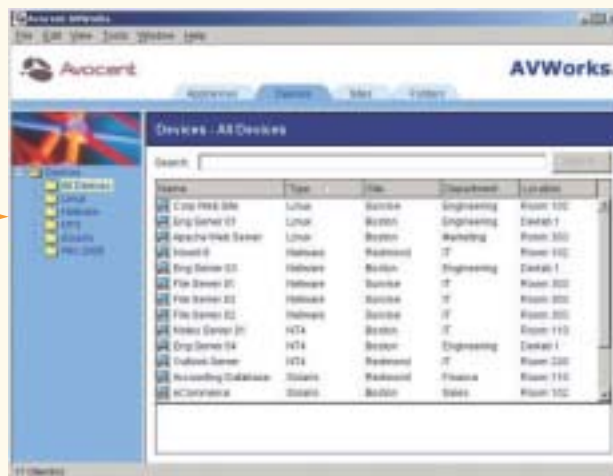
Your organization is large enough to need both local control of your servers as well as remote IP access. We present the AutoView® 1000R and 2000R – all in one switching systems that feature convenient on-screen management and CAT 5 connectivity.

AVWorks™ administration software is bundled with each switch to provide easy access to any connected server in your network. The 1000R and 2000R are 16-port devices that provide multi-platform server support for PS/2, Sun and USB. Both systems provide advanced security – DES, 3DES and 128bit encryption. You benefit from secure appliance-based or distributed authentication and data transfers over SSL connections.

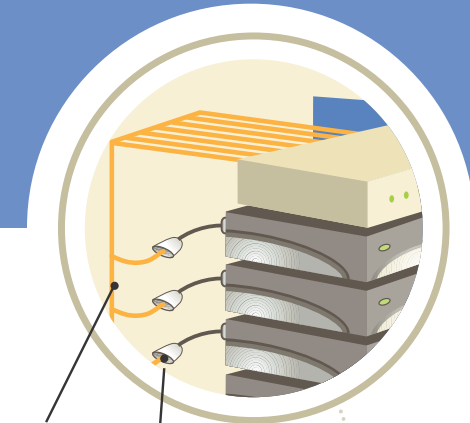
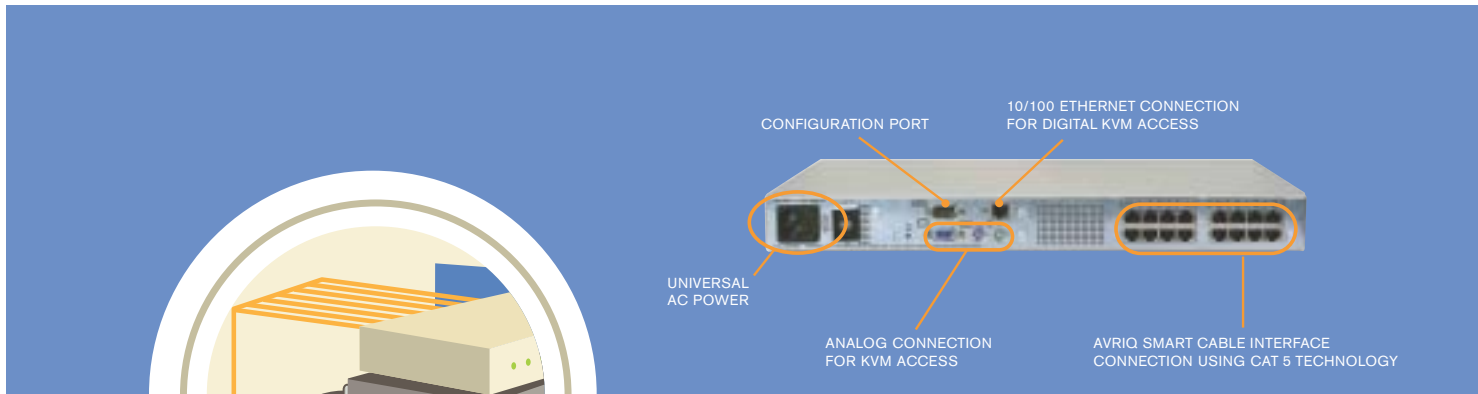
### AVWorks



AutoView 1000R/2000R provides local access at the rack through OSCAR® or remote access within the data center or from any location across the globe.



Both have one Ethernet port. So, which one is right for you? AutoView 1000R provides access for one IP-based user and one analog port for “at the rack” access. AutoView 2000R provides simultaneous access for two IP-based users in any location and the convenience of one local user.



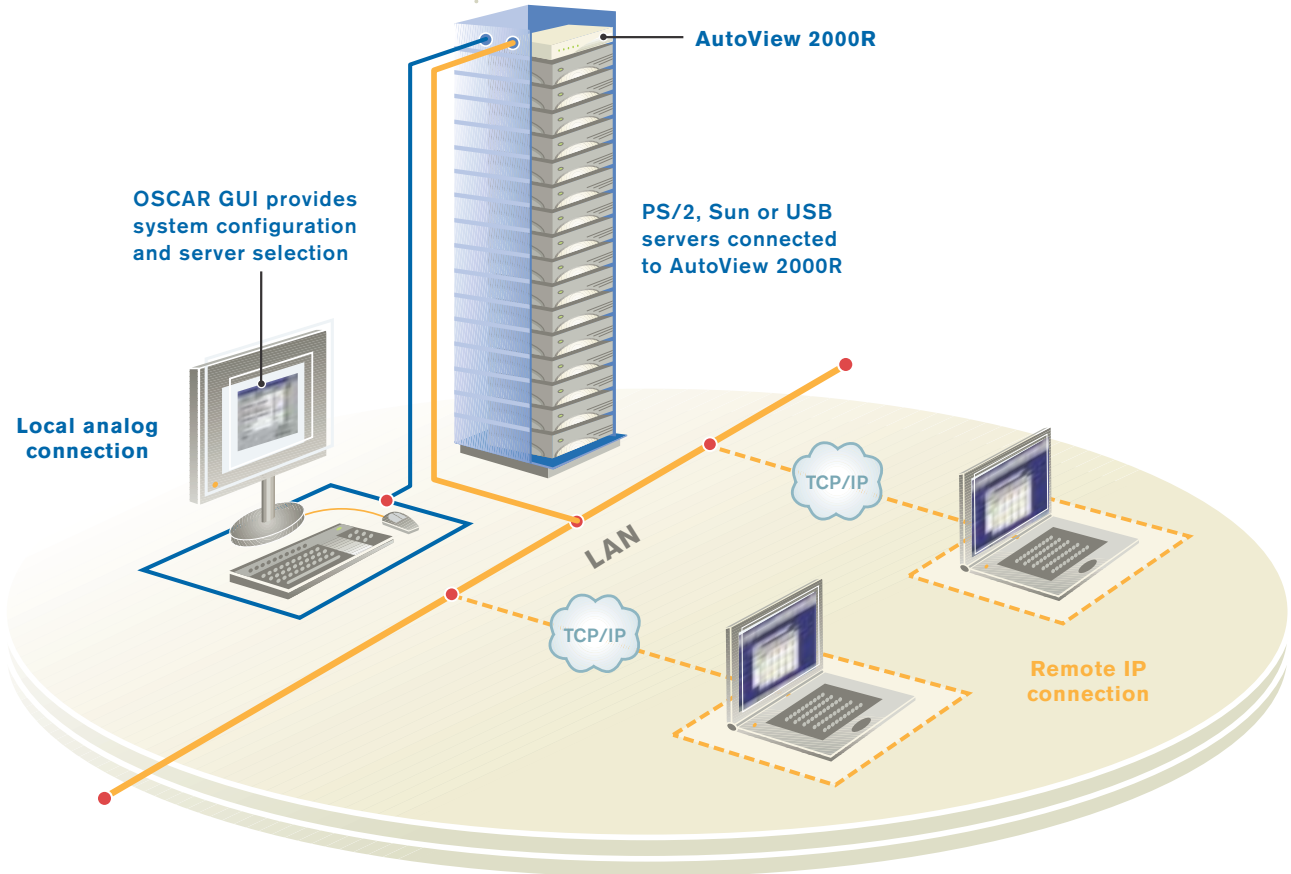
**CAT 5 cables**

**AVRIQ cable interface eases reconfigurations**



**AutoView 1000R/2000R Benefits**

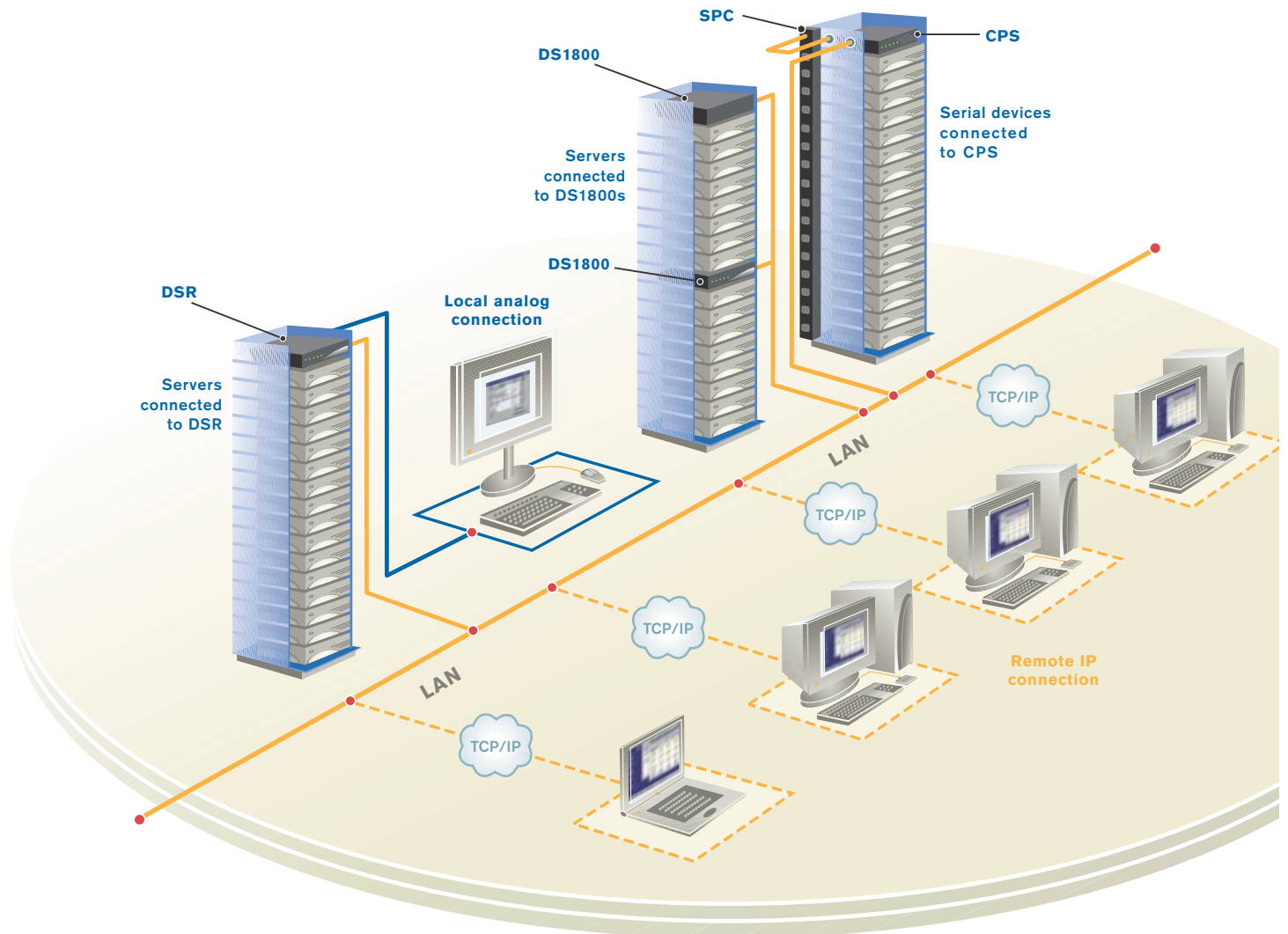
- Access servers from the rack, at your desk or over IP
- CAT 5 cables reduce data center clutter
- Enhanced security with DES, 3DES and 128bit encryption
- Point-and-click management with client-based software
- Multi-platform support – PS/2, Sun and USB



- REMOTE ACCESS
- KVM SWITCHING
- CAT 5 CONNECTIONS
- SERIAL & POWER CONTROL
- CENTRALIZED ADMINISTRATION

## DS Series

DSR • DS1800 • CPS • SPC



Assess your situation. You may be dealing with limited access and control of your servers, no way to tap into remote data centers, cable clutter, limited space and maintenance downtime. Your only method to troubleshoot, reconfigure or reboot servers is with the expense of time and travel. If these problems sound familiar, it's a good time to explore the IP-based KVM solutions of the Avocent DS Series.



### DS1800

You can count on centralized access and control of multi-platform servers, including PS/2, Sun and USB. You get full, non-blocked access and eight internal digital paths. And, you manage it all 24/7 using an IP connection and DS management software.



### DSR

The DSR suite offers you a choice of 8-port or 16-port network appliances that combine analog and digital technology into one KVM switch. All models are controlled with DS management software for remote IP access, and patented OSCAR® on-screen GUI for local access at the rack. The DSRIQ cable interface allows servers to be attached using standard CAT 5 cabling, reducing cable clutter. The DSR suite of products is scalable, flash-upgradeable and requires only 1U of valuable rack space.



### CPS

Using the same DS management software, you can control serial devices over IP, too. With CPS appliances, you have centralized access and control of major server platform environments, power management devices, routers and other serially-managed devices.



### SPC

The SPC provides you with secure power management for all data center devices. The SPC working in conjunction with the CPS allows for remote reboot, power status monitoring and on/off commands.

"The DS1800 system allows our administrators to easily control servers in our Internet Data Centers throughout Latin America, where 24/7 access and control is critical."

- MetroRED

### DS Series Benefits

- Anywhere access and control of servers or network devices
- Centralized DS management software, available in client or browser-based versions
- KVM OVER IP or Serial over IP connectivity
- Power management over IP
- Reduces cabling and peripherals required in data center
- Scalable and flexible to grow with your business

D S M A N A G E M E N T

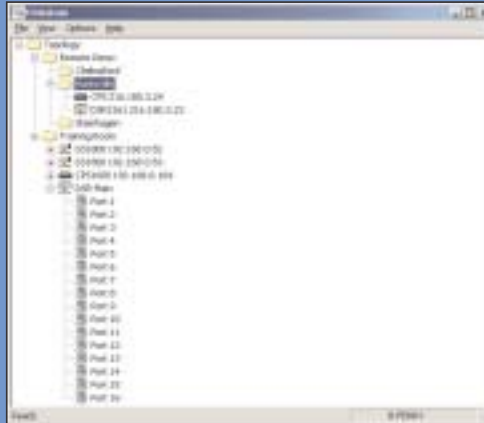
# software

**DSAuth**



Avocent's DSAuth stores the topology, user permissions and per-device contact information and performs third party authentication during connection to the switch. DSAuth serves as the gatekeeper for user access to the connected device.

**DSAdmin**



Avocent's DSAdmin configures topology, user permissions and per-device contact information. With DSAdmin, you can create and configure the type of access you want to provide to your network environment.

The DSAdmin and DSAuth elements of the DS management software suite give you powerful tools to administer your site and authorize proper access by users. An audit log records full details of user access and individual KVM switching activity.

Once your DS network appliances are installed and configured, you are only a few mouse clicks away from total control. Simply select the device you want to control, and windows are created for each connected device. You have secure, centralized network appliance management using a standard IP connection.

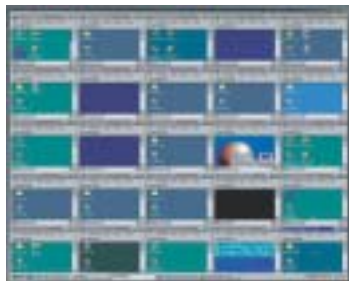
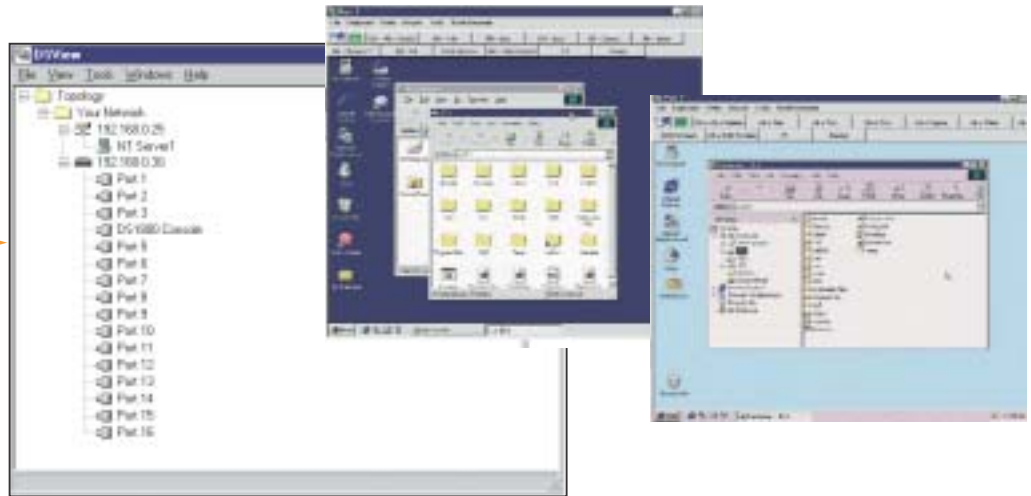
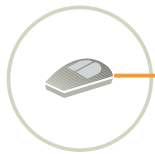


You can view and manage all of your data center devices on one screen. It doesn't matter if they are a mix of multi-platform servers, routers or power devices. It doesn't matter where they are located. You will see and control them all - just as if you were sitting in front of them in your data center. With DS management software, you can troubleshoot. You can reboot. You can do it all at the rack, in an office or wherever you are located.

Centralized authentication control differentiates Avocent's KVM OVER IP switching systems. Client-based or browser-based versions of DSView provide secure centralized management – and that's what our IP-based systems are all about. Total control.

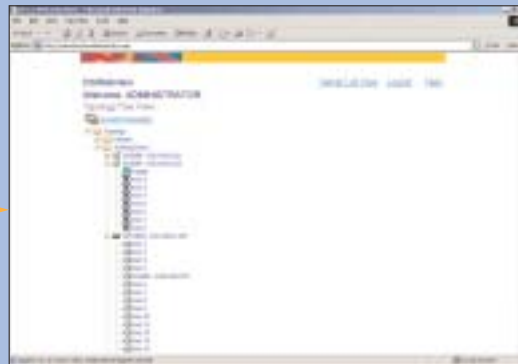
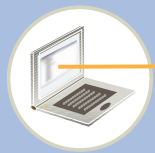
## CLICK AND CONNECT™ ACCESS AND CONTROL

DSView



Avocent's DSView™ click and connect interface uses industry standard IP connections so that you can easily access any connected device. DSView lets you access all of your connected data center devices from a single screen. Plus, you have BIOS level access to any connected network device via DSView.

DSWebview

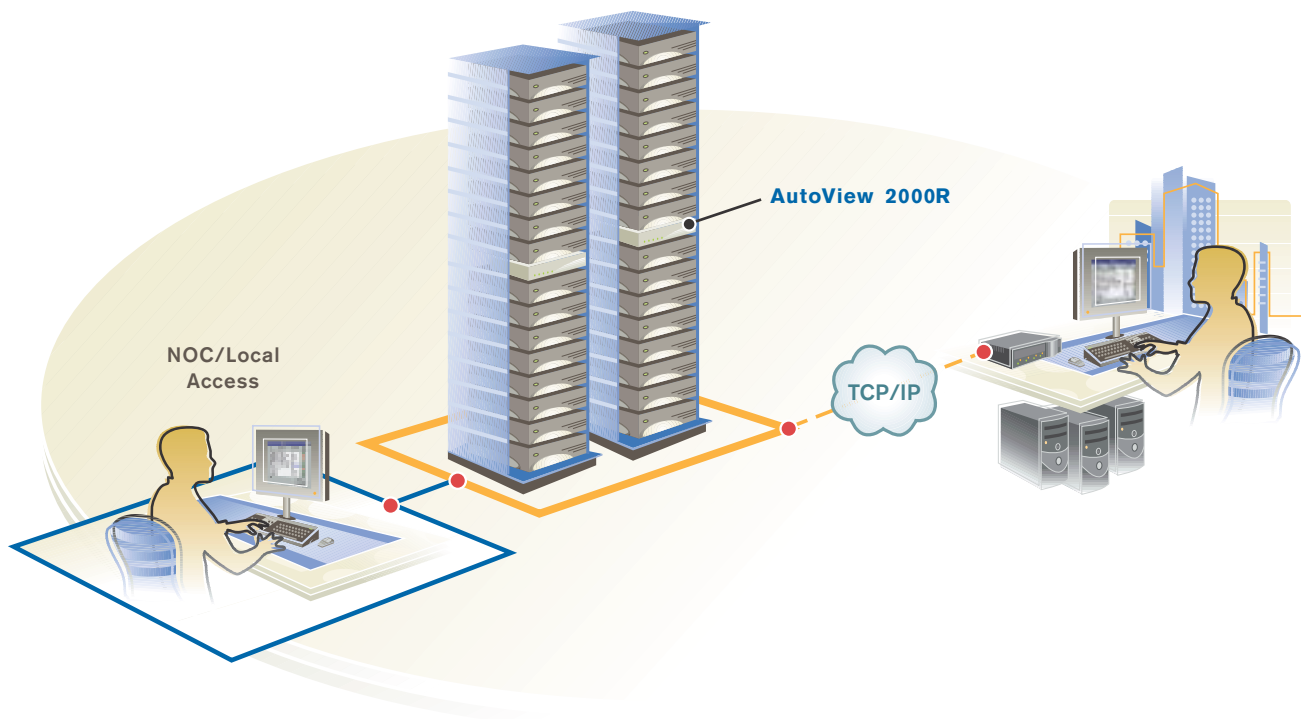


Avocent's DSWebview feature provides secure, browser-based access to virtually any data center device via Avocent's DS Series product suite.

CUSTOMER

# applications

## 1 SMALL/MIDSIZE

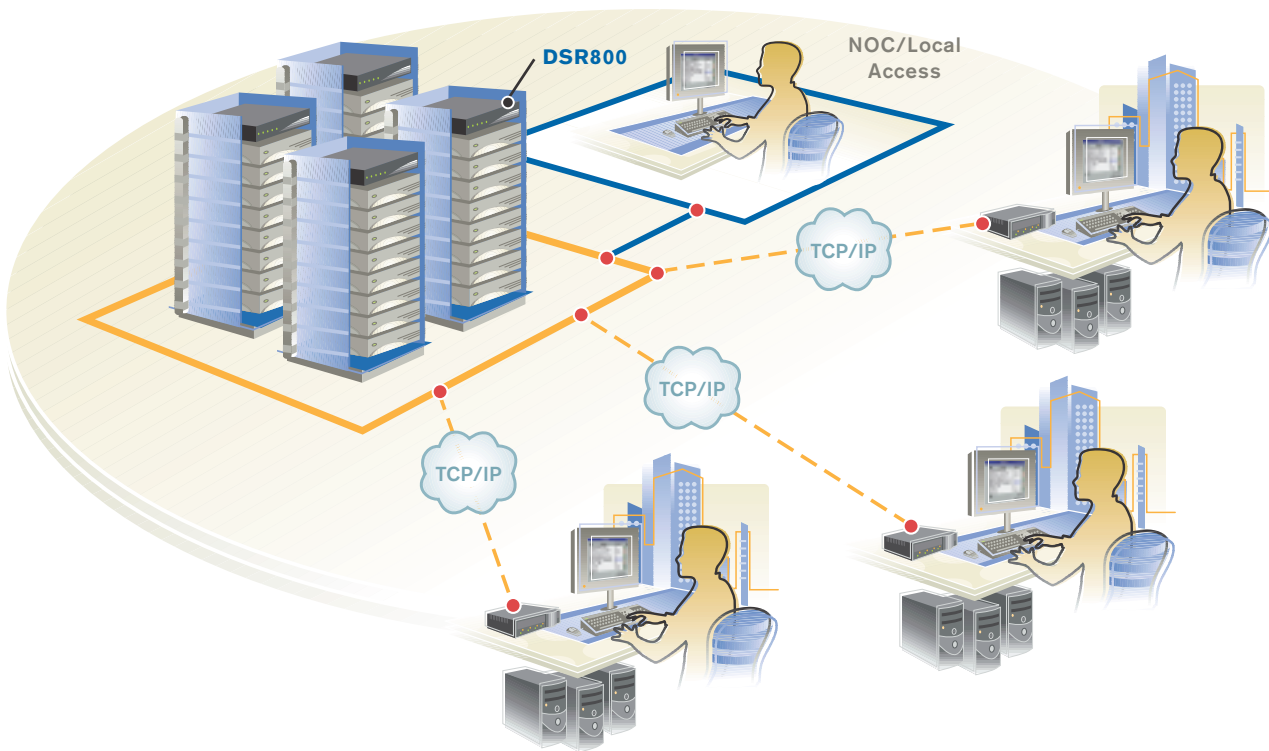


- 1 A growing real estate company found their IP-based KVM solution in the AutoView 2000R when they reached the need for a reliable method to configure multiple users, keep their website running without interruption, and monitor and manage their servers from one location.

Avocent KVM OVER IP switching solutions are installed in businesses of all sizes. Our broad spectrum of customers can be found in the following industries, among others:

- Technology
- Software Development
- Banking
- Healthcare
- Government
- Education
- Real Estate
- Automotive
- Media
- Entertainment
- Retail
- Pharmaceuticals
- Business Management
- Insurance
- Transportation
- Airlines
- Networking
- Storage

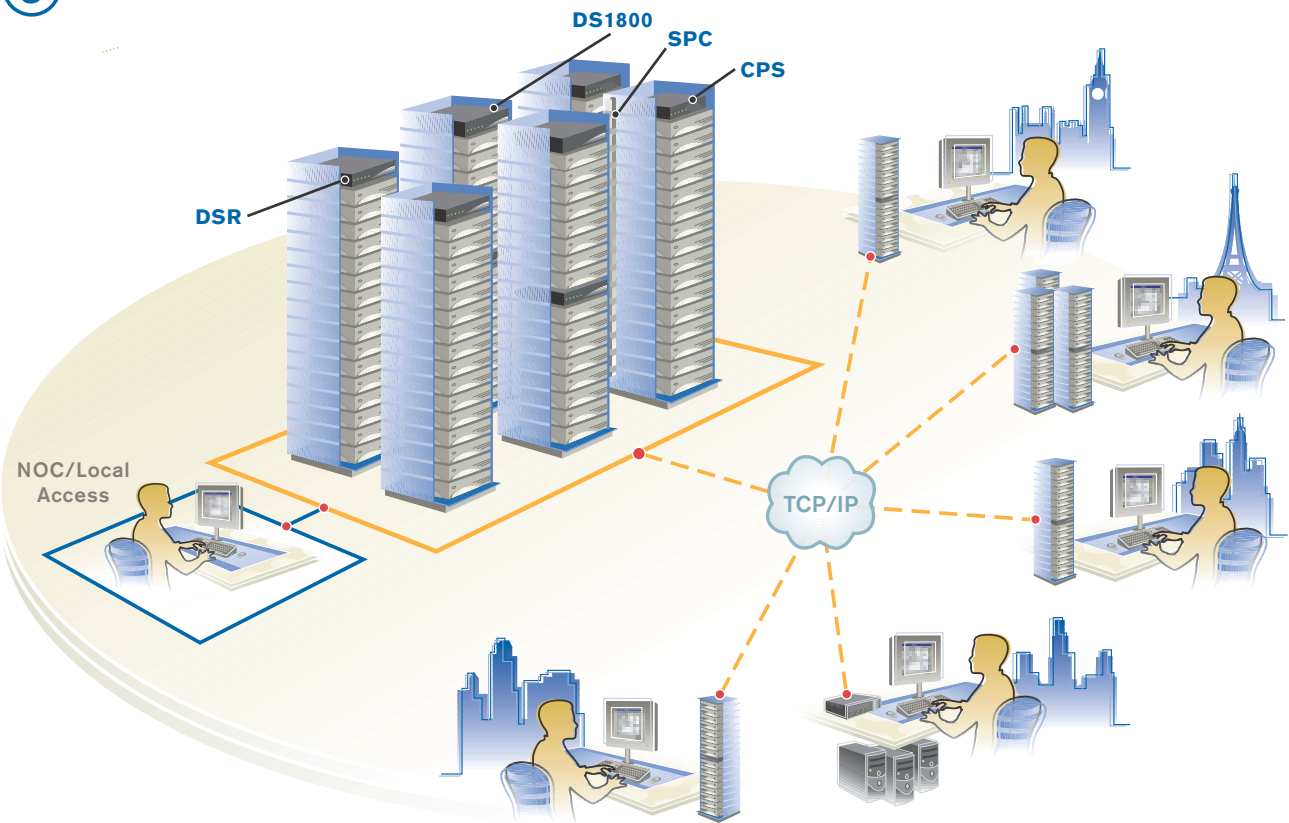
## 2 DISTRIBUTED ENTERPRISE



- ② One of America's expanding drive-in restaurant chains uses a DSR800 solution to provide its domain administrators with segregated remote access to all of the servers necessary to conduct business and process sales and product information.

“It has allowed our administrators to access the servers from their desks or remotely to troubleshoot/resolve issues, greatly enhancing productivity.” – **Gwinnett Health System** on the use of their Avocent KVM OVER IP solution.

**3** ENTERPRISE



**3** The network administrators of a large communications enterprise like the flexibility and scalability of the DS1800. They use it to access, manage and control thousands of servers in three countries.



### What Avocent Customers Are Saying

"AVOCENT HAD THE FORESIGHT TO DEVELOP WHAT I CONSIDER THE ONLY ENTERPRISE-LEVEL IP-BASED SWITCH ON THE MARKET." – ENTERPRISE CONTROL SYSTEMS (FOR THE CITY OF SEATTLE)

"THE RACKS ARE MUCH EASIER TO WORK WITH NOW AND THERE ARE FAR FEWER CABLES AND A MUCH CLEANER LOOK. THE EXTRA SPACE IN THE RACK ENABLES US TO SUPPORT MORE SERVERS WITH LESS POWER AND CABLING." – FOXTONS

"THE QUALITY OF EQUIPMENT, BOTH HARDWARE AND SOFTWARE, IS SUPERIOR. WE HAVE NEVER HAD AN ISSUE WITH ANY AVOCENT BRAND." – EASTBANC TECHNOLOGIES, CONTRACTOR TO THE WASHINGTON DC GOVERNMENT

### REAL WORLD CUSTOMER APPLICATIONS

A leading healthcare facility used DSR solutions to gain control of dozens of servers scattered across their main campus. With centralized management, they now control everything from user access privileges to power consumption.

One major U.S. city chose the DSR2161 and DSView to gain control of an expanding infrastructure with a scalable remote access solution. They estimate the solutions paid for themselves in less than six months.

IP-based KVM technology can have a huge positive impact on the budget of an IT operation, including their ROI. A cost comparison conducted by Avocent for one growing company showed that the company could save as much as \$130,000 by just updating the current KVM switching system for their next 160 servers.

A large educational institution discovered that Avocent's CPS serial solutions gave them completely separate access to their core routing devices across their entire operation. They can troubleshoot their entire network remotely by dialing into a serial device even if their external connectivity is down.

Purchasing IP-based KVM equipment that is easy to install and maintain was a high priority for a real estate company with international locations. They wanted a cleaner look in their data center and room for more servers. They chose the AutoView 2000R and placed 12 servers online and operational in less than 45 minutes. They also regained valuable rack space with reduced requirements for power and cabling.

A powerful credit union organization with distributed locations found that the DS1800 KVM switching solution provides improved efficiency, time savings, reduced downtime and even improved engineer morale. The organization enjoys 24/7 access, control and management of all their network servers and devices spread across the United States.



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