Avocent® DSView™ Management Software

Secure, Remote Infrastructure Management Control

Benefits

Features

- Unified, secure "hands-on" control of remote infrastructure
- Location independence activity:
  - Triage, diagnostics and root-cause-analysis
  - Disaster recovery
  - SLA Management
  - Application usage
- Control blade & virtual servers and service processors
- Native host KVM web interface
- HTML5 KVM and Serial viewers
- Telnet/Putty serial interfaces
- Session log, report and archive
- Data Center Zone definitions
- Schedule and on-demand firmware management
- Logically bridges virtual media to remote infrastructure
- Shares RPM data center model
- Hub-and-spoke architecture
- Out of box authentication
- Web secure 2048 SSL certificate
- Two factor authentication

Benefits

- Flexibly manage operations from any location
- Single point of data center infrastructure management
- Activity logging for full operational accountability
- Zone granularity access control
- Consistent appliance firmware management
- Flexibly restore and reimage devices from virtual media
- Architected business continuity
- Secured via site authentication and web certificates

Business Challenges

The collaborative mission of IT and data center operations is to support business initiatives. IT add data center operations face overhead and productivity challenges, including:

- Geo-dispersed data centers or branch infrastructure, requiring professional "hands-on".
- Heterogeneously equipped or merger-acquired data centers — inconsistently managed via a patch-work of discrete and/or siloed vendor products.
- Lights out data centers, requiring "hands-on" management within physical isolation.

Solution Overview

Avocent® DSView™ Management Software helps your IT and data center operations teams overcome these challenges by providing secure sessions to remotely locate data center infrastructure controls. Through usage of innovative Avocent® appliances, off-network controls are network enabled for secured web-browser sessions via DSView:

- Keyboard/video/mouse (KVM) controls of a standard server.
- Serial port (Telnet, Putty or proprietary) controls of a server, network, SAN or Rack PDU.
- Proprietary connection to service processor.
- MIB-based controls to infrastructure like Intelligent Rack PDU.

As a stand-alone solution, DSView delivers secured web-browser enabled sessions of on-network infrastructure controls. As an IT integrated solution, DSView delivers secured web-browser enabled sessions to Virtual Machines (VMware, MS Hyper V and Citrix Xen).

As an industry proven secure, remote infrastructure management control solution, DSView has evolved a valued collection of product features, such as:

- Secured, remote management control of data center infrastructure via KVM, serial and service processor for:
  - "Hands-on" management and operational state monitoring (device state, power consumption, temperature) in real-time and as a polled device threshold event.
  - Control at the physical firmware level for bare metal OS provisioning.
  - Control at the physical host OS level for application sessions.
  - Control at the logical VM instance level for virtualized OS and application sessions.
- Standards based encryption HTTPS/TLS/AES/SSH; out-of-box integration to enterprise authentication & authorization; session & event logging/reporting.
- Threshold based event notification by site definition required on device parameters.
- Logical data access bridges between virtual media data sources (software installation, off-site data, etc.) and remotely managed data center infrastructure.
- Hub and spoke solution architecture for disaster resistance, fail-over management and scalable solution deployment across complex data center topology.
- Supports analog and cellular modem based Out Of Band (OOB) access to the data center infrastructure in the event of primary network failure.

Avocent® DSView™ Management Software

Specifications

Avocent® DSView™ software (hub/spoke) minimum requirements

Operating System

- Microsoft Windows Server 2008 (x64), 2012 (x64)
- SUSE Linux Enterprise Server 11(x64) , OpenSUSE 12.1 (x64)
- RedHat Enterprise Server 6.4 (x64), 6.5 (x64), 7 (x64), CentOS 6.5 (x64) , CentOS 7 (x64)
- Sun Solaris SPARC 10

Hardware Requirements: Large (> 7000 Target Devices)

- Windows/Linux Dedicated Physical or Virtual Server (no resource sharing)
- One more more 2+ Ghz CPU
- 6+ GB RAM
- 40+ GB HDD

Medium (1000-7000 Target Devices)

- Windows/Linux Dedicated Physical or Virtual Server (no resource sharing)
- 2+ Ghz Multi-Core CPU
- 6+ GB RAM
- 40+ GB HDD

Small (<1000 Target Devices)

- Windows/Linux Dedicated Physical or Virtual Server or (ESX/Hyper-V)
- Virtual Machine (no resource sharing)
- Dedicated processing priority 2+ Ghz
- Dedicated 4 GB RAM
- 40 GB non-expanding HDD

Browser support

- Microsoft Internet Explorer 11
- Mozilla Firefox version 45.0 ESR
- Google Chrome version 53
- Microsoft Edge

Virtual Machine Support

- VMware ESX server version up to version 6.0
- Microsoft Hyper-V3
- Xen Express, Standard, Enterprise or Platinum versions up to 6.5 (Enterprise and Platinum versions support resource pool, required for XenMotion)

Blades supported

- IBM blade chassis: BladeCenter, BladeCenter T / H / HT
- BM blade chassis: PowerEdge 1855, PowerEdge 1955
- Dell DRAC MC, Dell M1000e
- HP blade chassis: BladeSystem c-Class, BladeSystem p-Class
- FTS BX600
- Generic blade chassis

KVM over IP appliances

- Avocent® MergePoint Unity™ KVM over IP and serial console switch
- Avocent Universal Management Gateway 2000/4000/6000 appliance
- Avocent® AutoView 3108/3216

Third-party KVM over IP appliances

- Dell 1082DS, 2161DS2, 2162DS, 4161DS 4322DS, 8321DS, DAV2108, DAV2116
- HP G2 Switches AF620A, AF621A and AF622A
- IBM GCM2, GCM4, GCM16, GCM32, LCM16, LCM8
- Blackbox KV2116A and KV4116A
- Fujitsu s2-0411, s3-1641, s4-0812, 1622, and 3242
- Fujitsu Components Limited FW-D1008NP, FW-D2016NP, FW-D4016NP, FW-D2032NP, FW-S1008SR, FW-S1016SR, FW-S1032SR, FW-S1048SR

Console management appliances

- Avocent ACS advanced console servers ACS 5000, ACS 6000 and ACS 8000 appliances
- Avocent Universal Management Gateway 2000/4000/6000 appliances
- CPS810 and 1610 serial over IP network appliances

Power devices

- Power devices are supported on Avocent ACS, Avocent® CPS, Avocent® CCM appliances and on all Avocent® DSR switch and Avocent MergePoint Unity switch that contain one or more SPC ports
- Avocent SPC power control devices
- Avocent® PM PDUs: PM 8, PM 10, PM 20, PM 1000, PM 2000 and PM 3000
- Vertiv™ Rack PDUs MPH, MPH2, MPX
- Vertiv™ MPI Intelligent PDU family
- Liebert® GXT4 Uninterruptible Power Supply

Third-party power devices

- APC AP71xx, 78xx and 79xx series and AP8661, AP8941 PDUs*
- Server Technologies Sentry 3 & 4 models CW-48V5Z454-A1P, CW-24VY-L30M, CWG-24V4Z423A9/QR, CW-8H1A413, CW-24V4K425A9, STV-6502M and STV-4501C

Sentry Switched CDU CW-8H1, CW-8H2, CW-16V1, CW-16V2, CW-24V2, CW-24V3, CW-32VD1 and CW-32VD2 (supported models may change; contact Avocent Technical Support for current information) PDUs only supported through Ethernet Server Technology Sentry Switched devices supported via serial connections on Avocent® ACS, DSR switch and MergePoint Unity switch.

Service processor managers

- Avocent® Universal Management Gateway 2000/4000/6000 appliances
- Dell iDRAC8 v2.30.30.30+ (direct DSView managed vKVM session)
- Generic Appliances

Supported modems

The following modems and serial PCI cards are supported by the Avocent DSView software, provided the modems are supported on the Avocent DSView software server operating system.

- MultiTech MT9234SMI
- Digi Rapidport USB Modem
- US robotics 5686

Note: *The modems listed are not supported on Sun Solaris SPARC operating systems.*

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