

## VANTAGE Console Manager

### When a terminal server alone just isn't enough!

There is no substitute for a system's console. That is precisely why so many terminal servers have been pressed into use as remote access console servers. But for those that understand that Console Management means more than just remote console access let Vantage Console Manager complete the picture by adding additional services to console management.

Vantage software was designed to stay in contact with systems' console ports 24 hours a day 7 days a week. No sick days! No holidays! No vacations! Just non-stop event coverage and automation, complete console logs with secure, logged remote console access.

Whether you've got 1 system or thousands of systems, centrally located or widely distributed, Vantage can be deployed as a cost effective tool to help you manage not only the SPU and its operating systems, utilities and applications, but also most other devices incorporating serial console or management ports such as routers, switches or even environmental controls and PBXs. Each of these communicate with the Vantage software through text messages in the native language built into the device and its shell or command interpreter. No agent software needs to be installed or executed on a resource managed through Vantage. Suddenly your legacy systems, brand new servers and your routers can be managed from the same platform.

Using the latest in secure shell technology, the Vantage solution can enable xSPs and enterprises to consider remote console access, logging and automation to even their most far flung resources. With Vantage, critical events are detected sooner; event notification happens faster and key technicians can address and correct problems immediately.

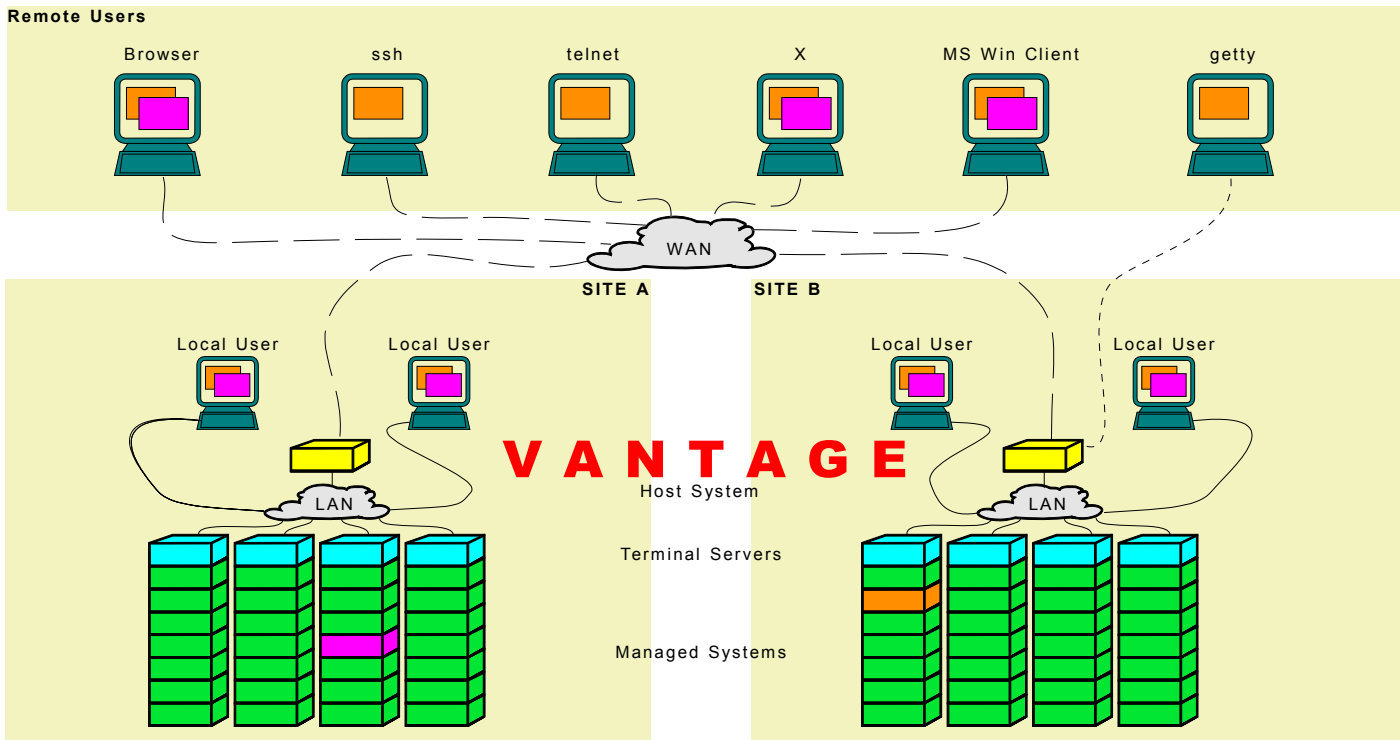
Vantage "always-on" Console Manager - its better than being there.



### VANTAGE Key Features

- ssh support for secured remote console access
- Agent-less automation means quicker implementation and lower ongoing costs
- Stratified licensing means you buy only what you need.
- Byte for byte console logs mean you have complete visibility
- Automated event detection and correction speeds recoveries
- Access Controls and Remote Access Logs keep you in control
- Elimination of console terminals save expensive data center floor space
- Faster fault correction
- Complete engineering support from concept through implementation and beyond eliminates wasted time and money

Control solutions for xSPs and the enterprise.



### Vantage Host Platforms

Vantage Console Manager 4.02.02, released June, 2003, runs under the following operating system environments:

- HP-UX 10.2, 11.0, 11.11, and 11.23
- Solaris 2.6, 7, 8, 9, and 10
- Linux RedHat 6.x, 7.x, 8x, 9x
- RHEL AS/WS – 2.1, 3.0, and 4.0

Vantage can be run via its X Windows based GUI interface or in headless environments through its character-based interface.

### Terminal/Console Servers and Serial Ports

Vantage Console Manager connects to systems' console ports through a wide variety of standalone terminal/console servers and serial adapter cards placed directly in Vantage host platforms. Most legacy terminal servers and serial adapter cards are accessed via standard protocols or device files and can be used with Vantage. The very latest terminal servers include ssh protocols and with Vantage provide the highest level of security available for remote console access.

### Console Logs

Full byte-for-byte logs of all console output are maintained in disk files on the Vantage host and are available for examination even when a key resource's syslog may be temporarily unavailable. Vantage also logs remote access attempts as well as the occurrence of events defined to be trapped by the event monitor.

### Multiple Remote Access

Up to 6 full and dozens of restricted users can share access to any console under VANTAGE management – without interrupting any logging and event management functions.

### Playback 'on connect'

In addition to logging console activity to disk files Vantage replays the most recent messages from a storage buffer whenever a user requests connection to a system's console. The user is brought up-to-date upon connect and can immediately begin his console activities with confidence that he

is not interrupting other processes or destroying critical information. In most cases the user does not need to consult the on-disk log files before interacting with the system.

### Event Monitor

Perhaps the most powerful Vantage service is its event monitor, which compares every character of every console message against a catalog of events to be trapped and acted upon. This service allows an administrator to set up automated notification and recovery schemes, including system restarts. Built in response functions perform visual, auditory, hardcopy and electronic notification as well as execution of commands at the console - one at a time or via logic controlled scripts. The Vantage API allows interaction with 3rd party applications. Vantage does not require the installation and use of any agent software, snmp or otherwise, on the resources that it manages.

### Security

A Vantage host system should be set up with the same login security provisions as any other system within the enterprise. Vantage administrative tools can then be used to map login accounts to console access privileges on a system by system basis. A login may be denied access to a particular console or may be granted read-only, read-write or exclusive access. All attempted accesses are logged by Vantage for subsequent review.

ASP Technologies, Inc. includes OpenSSH server and client code, including a client for MSWindows desktops, on the Vantage distribution media to encourage secure remote access to the Vantage host. In similar fashion Vantage supports the use of the ssh protocol between hosts and ssh equipped terminal servers where the connections between them lie beyond the bounds of physical security.

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