SOFTWARE DEFINED INFRASTRUCTURE FOR ACCESS AND CONTROL
NODEGRID MANAGER

Factors such as consolidation, cost savings, dynamic provisioning, and migration are driving most IT organizations to experiment with some form of virtual machine product today, and the advent of large-scale infrastructure systems has moved these backroom experiments and development environments into full, public-facing application infrastructure systems.

Virtualization technology is rapidly spreading across data centers around the world.

Organizations of all type of industries are focused on migrating to Virtualization platforms to harvest the benefits of reduced capital spending on server hardware as well as reduced demands for power and cooling capacity. Virtualization allows more flexibility in allocation of hardware resources resulting in maximum utilization of available capacity.

However, the introduction of Virtualization has led to a lot of unresolved IT management related questions for organizations. These challenges arise primarily because:

- Typically only a subset of every datacenter is virtualized. Even if several virtual machines run on a physical machine, there is a need to manage the physical machine itself.
- Physical machines by design allow various methods of management options whether through legacy console operations or advanced IPMI-based control.
- Virtual machines by their nature and design must be managed differently compared to the legacy methods for managing physical machines.
- Along with rack servers & blade servers, there is an increased need for managing network infrastructure like switches, routers, firewalls or even storage hardware. System admins are forced to use multiple methods of managing a growing proliferation of device types, protocols and brands.

This mix of virtual and physical servers adds a new level of complexity to management operations. As a result, IT organizations must re-think the way they manage their increasingly dynamic array of virtual and physical servers and other infrastructure.
Considering all these challenges, ZPE Systems' provides a software-based infrastructure management solution. NodeGrid Manager software provides a powerful, innovative and unified tool to control and access critical physical and virtual infrastructure through one simple interface. This doesn’t require any additional hardware.

• Centralized management of physical and virtual infrastructure including high availability solutions of network infrastructure.
• Managing heterogeneous hardware & operating systems.
• Each vendor has its own ways of managing its branded IPMI version: DRAC, ILO, UCS, RSA, ILOM, etc.
• Bridging virtual management solutions into one unified solution.
• Lot of hardware vendors address point needs like consolidation of multi-vendor IPMI’s, this results in dependency of hardware and increased capital and maintenance costs.
• Hardware vendors also help organizations in establishing serial connections over Ethernet but they work separately and cannot be easily integrated together.
• Power management solutions work independently. They need to connect together.

WITH ZPE, IT MANAGERS CAN NOW:

• Access virtual and physical servers from one single screen.
• Enjoy Mouse, Keyboard & Screen level control of remote virtual machines.
• Use virtual serial interfaces with specific virtual machines.
• Access multi-vendor IPMI like ILO, DRAC, UCS, RSA, ILOM from the same interface.
• Consolidate leading multi-vendor serial console hardware.
• Manage power management hardware from the same interface.
• Employ granular access control across physical, virtual, IPMI & serial managed devices.
• Receive data monitoring and event notifications.
• Discover new managed devices.
ABOUT ZPE SYSTEMS:

ZPE Systems, Inc. is the industry-first provider of Software Defined Infrastructure Access & Control solutions. The company’s NodeGrid Infrastructure Management solutions helps organizations of all sizes accelerate the deployment of Infrastructure Systems. ZPE Systems has designed NodeGrid to work with industry leading products from Cisco, Dell, Oracle, HP, IBM and numerous other Infrastructure Vendors. ZPE Systems was founded in 2013 by industry veterans with deep expertise in Data Center, Virtualization, Servers and Enterprise Systems Management. The company is headquartered in Fremont, California with offices in Brazil & Japan.

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SUMMARIZED BENEFITS OF ZPE SYSTEMS – NODEGRID MANAGER:

• Secure In-Band and Out-of-Band Network
  For dependable remote management of all Serial Consoles, Service Processors and VMs

• Easy Configuration and Installation
  Scalable configuration based on auto-discovery and Serial, SP and VM cloning

• Compliance with Data Center Access and Security Policies
  Customizable, multiple access levels and user group based roles

• Enhanced Security Framework
  Support custom security policies and service configurations

• Automatic Event Tracking
  Notification of fault conditions & Alerts

• Regulatory Compliance and Easy Troubleshooting
  Online and off-line data logging with time stamps, auditing, local/remote record archiving

• Multiple Vendor Support
  Service Processors: iLO, DRAC, CIMC/UCS, ILOM, IPMI Serial Appliances: Avocent/Cyclades, Digi, Raritan VMware VM: vSPC, MKS