



13166 Morning Spring Lane, Fairfax, VA 22033  
703.786.8529 (Phone)  
703.563.9387 (Fax)  
info@conceras.com (E-mail)

[www.conceras.com](http://www.conceras.com)

## Key Highlights

### Customer



#### CHALLENGE

The Department of Justice (DOJ) Client faced two major problems: budget constraints and demand for increased information technology (IT) capabilities.

#### SOLUTION

Conceras was solely chosen by the Client's Chief Information Officer to technically lead the full enterprise architecture migration from Sun SPARC servers to commodity x86 servers running Red Hat Enterprise Linux (RHEL) in virtual machines (VM).

#### BENEFITS

- Substantially reduced hardware, operating system, and support costs by \$76,000 per server
- Greatly improved performance of Client's applications by 125 percent
- Rapid, automated provisioning reduced server deployments from hours to minutes
- Significantly increased server utilization by 80 percent
- Reduced data center rack space 40:1
- Fully secure and compartmented VMs met DCID 6/3
- Superior quality and availability of IT achieved through built-in redundancy

Conceras helped DOJ Client reduce IT costs, achieve greater performance, automate deployments, increase server utilization and scalability, and improve application reliability.

Conceras selected RHEL, Dell, VMWare, Xen, and Network Appliance (NetApp) as an optimal combination of products for demanding and high-growth environments, identical to the Client's mission-critical environment.

With virtualization, Dell x86 servers, and NetApp iSCSI storage solutions, the highly flexible, scalable, consolidated Conceras design trimmed hardware, OS, and vendor support costs by \$76,000 per server, compared to the existing Sun SPARC production servers. In addition, the virtualization platform increased server utilization while reducing data center space, cooling, and power infrastructure requirements.

Virtualization, coupled with a finely tuned RHEL kernel, virtual networks and SAN, greatly increased performance of the Client's mission-critical Oracle J2EE applications by 125 percent while adding an additional 260 concurrent users. In addition, the technology has allowed the Client to experience greater availability, improved productivity, and reduced administrative burden.

Conceras valued important Red Hat benefits, including: enhanced security and third party application provisioning. Red Hat is innovative and vigilant in developing new security technology for Linux, from SELinux to EAL4+ Common Criteria CAPP, LSPP, and RBAC. Virtualization has allowed the Client to fully secure and compartment certified and accredited 'golden' VM libraries that can be quickly provisioned for new environments.

What's more, virtualization enabled the Client's Development Center to rapidly test and simulate third party applications (Oracle, IBM) on multiple OS platforms. Application installations have been seamless, and the VM stability and uptime have been spectacular.

With Conceras leadership, the DOJ Client is migrating 500 server environments to virtualization. To manage the massive deployment, Conceras is bringing additional value to the client with a complete systems management platform (Satellite and Altiris) that will enable the Client to instantly access software updates, manage inventory, and take advantage of sophisticated provisioning capabilities.