

# International Integrated Solutions (IIS)

## Virtualization of Mission Critical Applications

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### Overview

As companies look to improve IT efficiency with an eye on lowering both CapEx and OpEx, many mission critical applications are now being virtualized. International Integrated Solutions, Ltd. (IIS) is a leader in IT infrastructure for mission critical applications, as well as focused virtualization partner with the highest levels of certification from VMware, RedHat and HP. This paper summarizes several IIS virtualization projects covering major applications including: Oracle, SQL, Exchange, SAP, along with Rapid Provisioning and DR along the results. For more details please call IIS at 516-396-6700 or email [virtualization@iisl.com](mailto:virtualization@iisl.com) to speak with a member of our virtualization practice.

### Solution Briefs

#### Rapid Provisioning and DR for SAP

**Customer Profile:** International manufacturer and retailer of luxury skin care, cosmetic and fragrances.

**Environment:** Large SAP environment running on an HP-UX server.

**Mission:** Reduce TCO – Customer determined that migration from a proprietary Operating System (HP-UX) to RedHat Linux would reduce expenses. Automated Disaster recovery failover was a requirement. Recovery failover.

**Solution:** IIS architected and deployed a solution based on DL980s, RHEL, ESX and SRM. There were Monster VMs with 32 cores and 1 TB memory to support SAP Live Cache Production and target Production DR instances. Virtual Center from VMware has the ability to prioritize resource leveling. This feature was used to balance Production, Quality Assurance, Development and Sandbox Live Cache instances. To meet the Disaster Recovery requirements, SRM was deployed with DR failover. This was configured to automatically failover the Production to the DR target server. In this environment, SRM also provides full DR testing without disruption to production systems.

**Results:** Estimated TCO reduction of at least 60% compared to a traditional HP-UX environment. Additionally there were reduced costs associated with a scripted DR failover scenario.

#### Oracle and Solaris

**Customer Profile:** Large Retail Florist with on-line presence responsible for delivering flowers, gifts and smiles to recipients.

**Environment:** The physical environment consisted of over 600 Solaris servers. The applications running Oracle along with Linux Application and Web servers, Microsoft Windows and Citrix.

**Mission:** Reduce TCO and provide a scalable platform that would allow the business to react instantaneously to peak demand periods.

**Solution:** As a result of the IIS Virtualization project, all Solaris applications were ported to Linux and virtualized. Existing Linux and Windows servers were migrated from Physical to Virtual Machines. Additionally the Citrix servers were virtualized and New Windows 2008 virtual machines were deployed.

**Results:** TCO was reduced by 70% and ROI was achieved in 13 months.

#### SQL and Exchange

**Customer Profile:** Third largest trading market in US with a market share of 10%-20% and average trading of 1-2 billion shares per day.

**Environment:** The environment consisted of a physical Exchange implementation and physical servers for hosting their back office, SharePoint and SQL server farm

**Mission:** Provide a scalable platform that would increase up time, reduce administrative effort and allow the business to respond more quickly to operational demands freeing up its IT staff to work on projects more closely related to the revenue generation portion of the business.

**Solution:** Exchange 2010 was virtualized providing better than native performance. Additionally a pilot was successfully completed to demonstrate virtualize SQL servers on DL980 servers.

**Results:** This project resulted delivering a ROI of less than 12 months! The IT staff can now respond more quickly to IT demands and can provision resources in minutes instead of weeks.



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Solution Briefs (continued):

## Virtualization of Exchange 2010

**Customer Profile:** Large insurance claims processing company

**Environment:** This customer had an existing Exchange 2007 environment.

**Mission:** To save money and improve results this account wanted to reduce the physical server count while increasing reliability and performance.

**Solution:** IIS migrated the existing Exchange 2007 environment to a virtual Exchange 2010 on exiting ESX servers reducing physical server count and increasing reliability and performance.

**Results:** This project provided the customer with an ROI of 6 months.

## SAP Virtualization

**Customer Profile:** Large international clothing manufacturer

**Environment:** Customer had a large SAP environment running on HP-UX Integrity servers.

**Mission:** This customer wanted to reduce TCO. They planned to migrate from proprietary Operating System (HP-UX) to RedHat Linux to reduce expenses. This solution required automated Disaster Recovery (DR) failover.

**Solution:** IIS in conjunction with an SAP VAR migrated environment to Linux and virtualized the Linux servers to reduce TCO. SRM was deployed to fully automate DR and provide "live" DR testing.

**Results:** In addition to meeting the business and technical requirements, financially this project delivered an ROI of less than 13 months.



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