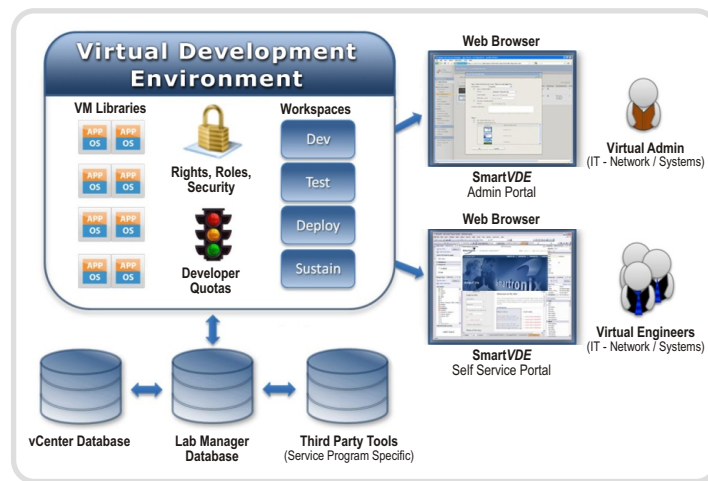


## Smart Virtual Development Environment (VDE)

**MISSION:**  
 Enable successful development, test, deployment, and sustainment of your critical business applications.

As organizations strive to modernize their business applications, become more efficient, and reduce their IT infrastructure footprint, they are repeatedly faced with many difficult decisions such as: How do I reduce development costs? How do I reduce my hardware footprint? How do I reduce IT administration? Built on the VMware Virtualization Platform (utilizing the latest vSphere 4/Lab Manager), Smart VDE provides the latest in virtual computing technologies. The Smartronix Smart VDE infrastructure enables successful development, test, deployment, and sustainment of your critical business applications.



### Benefits

**Build, modify, and distribute scalable applications with minimal resources**

- Allows companies to 'green' their IT infrastructure via server footprint reduction

**Requirements driven process**

- Project definition matrix
- Project artifacts repository

**Auto provision hardware and software**

- Guarantees required resources are ready and available for distribution to support any/all projects in the VDE

**Automated delivery of project specific Service Level Agreements (SLAs)**

- Ensures contractual terms are known, tested, and met prior to deployment

**Agile/flexible virtual environment**

- Efficient modification of critical business rules
- Cross platform development
- Rapid prototyping and deployment

**Software/development management portal**

- Software artifacts repository, collaboration, version control, code repository, SDLC Definition

**Automated build, management, and recovery (High availability / vMotion)**

**Incorporates end-to-end business rules; ensures proper development, test, and implementation**

- SDLC, CMMI, C&A, SLA

## Overview



Smart VDE employs VMware's vSphere 4 and Lab Manager to provide on-demand access to shared virtual resources. Application users, development and test teams; as well as support and training personnel can create, deploy, and reconfigure configurations in seconds. Self-service management with policy-based access control reduces the overall IT administration burden, providing development and test teams the ability to manage their own environments. Smart VDE provides robust Software as a Service (SaaS) and Platform as a Service (PaaS) environments, enhancing corporate ROI through code sharing and team collaboration. Because Smart VDE provides the needed hardware, infrastructure, and virtual operating environments; corporate investment is further reduced.

## Features

### Virtual Image Library

- Maintain a central repository of virtual machine images that can be easily deployed and shared with other teams or development efforts

### Linked Clones

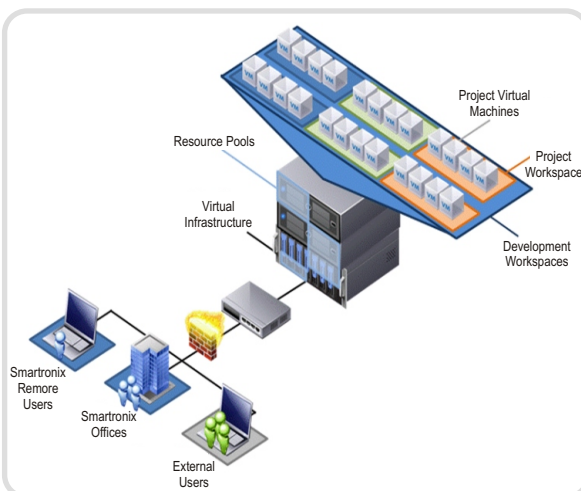
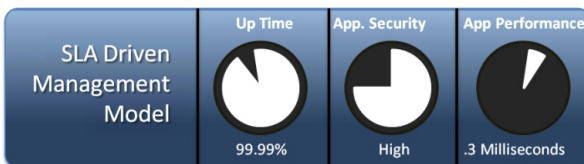
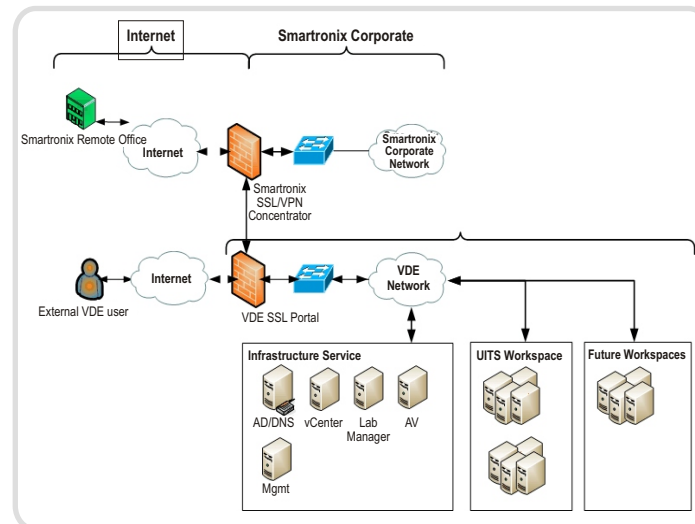
- Reduce virtual footprints by "de-duplicating" data in similar virtual system images

### Storage Leasing

- Eliminate excessive resource use by reclaiming space from outdated or expired images

### Gold Standard Configurations

- Allow development team members to easily identify released images and other reference configurations



### Secure Virtual Environment

- Utilize the latest in virtual security technologies (VMsafe); provide configuration management, network security, and virtualization host and infrastructure hardening

### Secure connectivity

- Manage secure development environment through corporate firewall or VPN access

### Lab Manager

- Reduce administrative overhead

### Maintenance and Recovery with 0% Downtime

- Perform live migrations with zero downtime, undetectable to the user

### State-of-the-Art Hardware

- Smart VDE employs the latest in virtualization ready hardware technologies, ensuring the most efficient and cost effective environment

### Scalable

- Easily meet the needs of rapidly changing virtual development environments



**MISSION ASSURED**

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CMMI Maturity Level 3  
ISO 9001:2008  
ISO/IEC 20000-1:2005  
CPSR Approved