

## Workstation Virtualization

### For the technical professional

More IT managers look to virtualization for real savings, because virtualization allows lowering TCO of desktop computers enabling an organization to pool resources more securely, reliably and efficiently than ever before. Information technology consultants have begun to advise clients: "Change your thinking about desktop consolidation! Instead of consolidating updating and migrating all legacy applications and desktops, implement a virtualization strategy!"

**Recommended Action or 2004:**  
**Enterprises should start now to build a multiyear strategy for virtualization.**

Beyond virtualization strategies, trade press demonstrates that virtual machine technology is entering every phase, every area, of the IT infrastructure.

### What is SVISTA?

Today's computers are extremely powerful, utilizing fast processors and large amounts of memory. Today's applications utilize only a part of this power.

Many professionals need several computers, because they need access to legacy applications using a different Operating System (OS). They may run test or support environments, or development systems requiring many software compiles and different configurations.

A software solution which can resolve these issues should have the ability to run several operating systems on a single machine. This means creating several virtual computers to run inside one real computer.

**This is the solution provided by Serenity Virtual Station (SVISTA).**



Serenity Virtual Station

for

- ▶ LINUX
- ▶ Windows 2000/XP
- ▶ OS/2 & eComStation
- ▶ FreeBSD

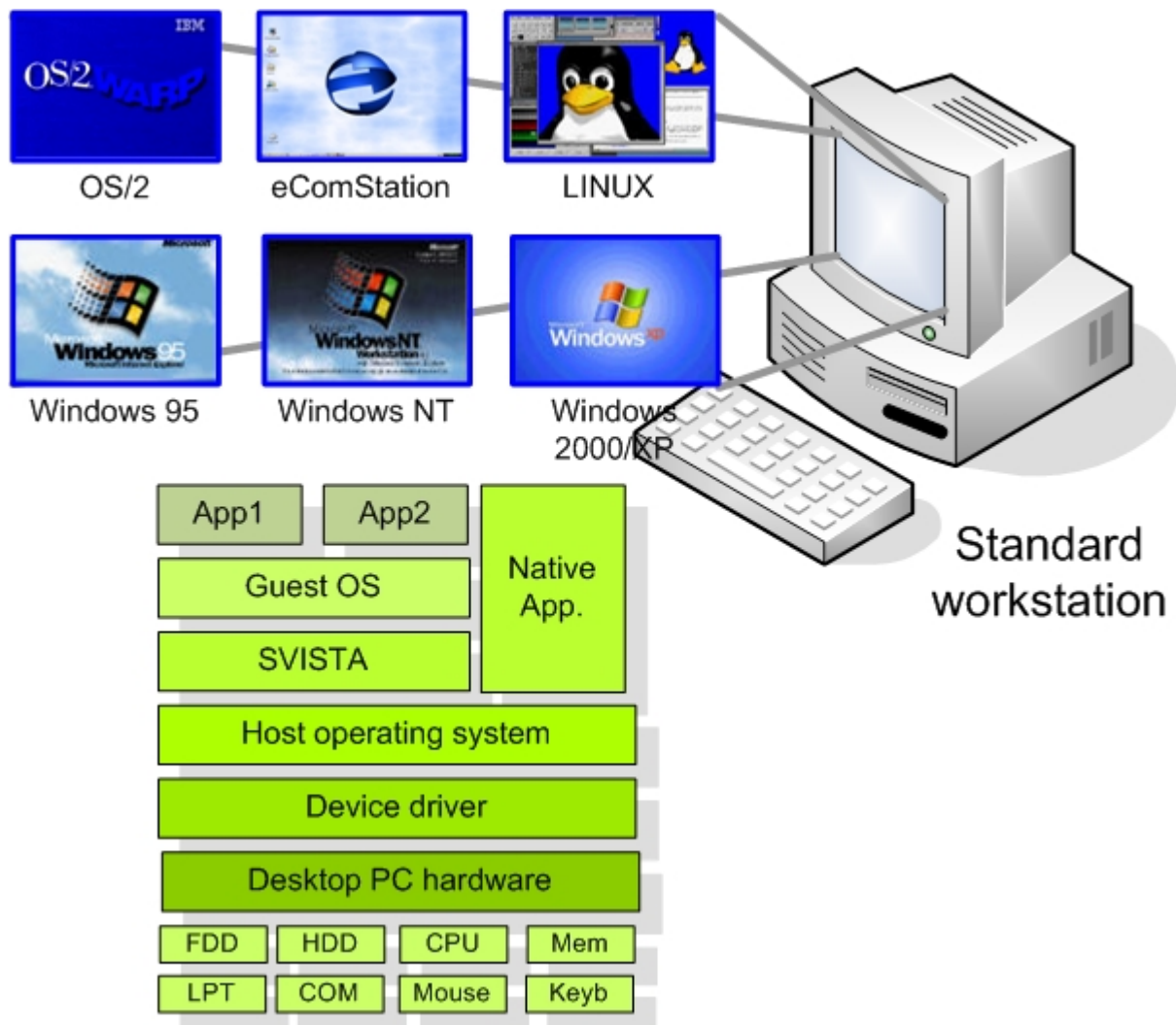
## How does SVISTA work?

SVISTA is a virtualization technology for PCs, allowing a user to install multiple Operating Systems (OSs) on a single computer, running these Operating Systems simultaneously, without the need for the user to shut down and reboot. SVISTA is launched as an application under the "host" operating system and it creates a set of "virtual computers" or virtual machines (VMs). Each virtual computer can run a "guest" Operating System. Each virtual computer has its own virtual processor, set of virtual devices, and full network support.

The "desktop" of a virtual computer can appear in a separate window, or it can occupy the entire display (full screen). In the full screen mode, users can "hot key" between the different virtual computers, or desktops.

SVISTA employs emulation technology which enables the execution of a guest Operating System in an isolated program environment, under the full control of the virtual machine monitor. At the same time, most of the guest code instructions are executed directly by the processor, without emulation. This insures high performance and responsiveness of applications running on the guest operating system, in the virtual computer.

### SVISTA supports several guest operating systems:



## Benefits for your business

### ► Legacy applications

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Legacy applications may not be supported on new hardware or on the current operating system. SVISTA allows the user to run a "legacy environment" on the same system as the current environment protecting the investment in software, skills, and training.

### ► Recreate desktop environments

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SVISTA allows a support organization to recreate a user's failing environment on their own equipment which can improve response times. It also allows support to create and save, isolated environments to test applications and carry out other support activities. Allowing support groups to implement SVISTA can result in a more reliable, secure computing environment for the entire organization.

### ► Developers

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For developers, SVISTA provides an isolated environment for compiling, debugging, and monitoring software, providing a set of controls which allow programmers to study the execution of software. This results in significant overall improvement of programmer productivity.

### ► Desktop consolidation

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SVISTA may be used to consolidate workloads of underutilized systems, desktops. This can reduce expenditure in equipment, utilities, and so forth. It also reduce the management and support activities required.

### ► Multiple configurations

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SVISTA can allow an organization to create a standard virtual hardware footprint which can be deployed throughout an organization, simplifying support activities.

SVISTA makes it easy to create specialized standard desktops for activities such as training or sales demonstrations.

### ► Testing scenarios

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Typical software migration involves a great deal of testing, which can be supported by SVISTA. Perhaps more important, such migrations involve a linear schedule of activities. SVISTA provides users with the ability to create a more flexible environment, running the "from" and "to" environments in parallel on the same systems. This affords the organization a great many options in determining a "cut over" date and procedure.

SVISTA provides a user with a powerful, cost effective tool which supplies solutions to a wide range of support challenges and computing requirements while simplifying many of the complex tasks associated with running and supporting the computing environment.

## System requirements

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### Software

- ▶ Microsoft Windows NT 4 Service Pack 6
- ▶ Microsoft Windows 2000 Professional Service Pack 2
- ▶ Microsoft Windows XP (home and professional edition)
- ▶ LINUX for i386 (Kernel 2.4.x or higher, QT3 installed) like SuSE, RedHat, Mandrake
- ▶ IBM OS/2 Warp or Serenity eComStation
- ▶ FreeBSD

### Hardware:

- ▶ Pentium 3 with 700 MHz
- ▶ 128 MB for host OS plus memory for each running Guest-OS
- ▶ Hard disk: 2 MB for program files plus container files for each installed guest VM (20 GB recommended)
- ▶ Any SVGA, XGA graphics card with minimum of 256 colors supported by host OS (Windows GUI, Linux X-Server or OS/2 presentation manager)

### Optional components:

- ▶ Ethernet or Token Ring network card that provides promiscuous mode to support network for guest VM:
- ▶ Serial or parallel port (serial ports not yet supported in the Linux Host version)
- ▶ Any 3,5" disk drive, any CD-ROM or DVD-ROM drive

## Contacts:

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