

Virtual Application Studio

Deploy your applications instantly over the web, Active Directory, and USB devices

AT A GLANCE

Xenocode virtualization technology allows applications to be deployed in lightweight, pre-configured virtual machines that run instantly on any desktop.

Xenocode Virtual Application Studio allows system administrators and software developers to virtualize applications for deployment on the web, Active Directory, USB drives, or existing infrastructure.

KEY BENEFITS

- Instant Deployment**
 Give your users instant, zero-setup access to your applications.
- Security**
 Execute on locked-down desktops in an isolated, sandboxed environment.
- Manageability**
 Deploy with no infrastructure changes, specialized servers, or client installs.
- Mobility**
 Distribute your applications on the web, Active Directory, USB keys, or existing desktop management infrastructure.
- Customization**
 Pre-configure your applications with settings and customizations appropriate for your organization.

TRY IT NOW

A fully-functional evaluation version of Xenocode Virtual Application Studio is available at www.xenocode.com. Our gallery of application templates helps get you started quickly.

We're here to help you build and customize your virtual application. Contact us toll-free at 877-223-3551 (206-774-8769 international) for a free consultation.

Application deployment is slow, insecure, and unreliable

Setup and maintenance of the typical desktop in your organization involves a tedious installation process for each application, followed by additional configuration steps, preference setup, and other customizations. In fact, analysts estimate that companies spend over **\$500 per desktop-year** on application maintenance.

Further, because most deployed applications do not function properly on secure, locked-down desktops, administrators are forced to **compromise security** for application compatibility. And over time, interactions between shared components and multiple application versions frequently result in **broken applications** when additional products are installed, removed, or upgraded.

The result is an **inflexible IT infrastructure** and **extensive costs** associated with application administration, maintenance, end-user support, regression testing, security breaches, and application failures.

Xenocode virtualization increases agility, security, and stability

Xenocode virtualization technology give your users **instant access** to all of your applications, **pre-configured** and **ready to run**. Virtualized applications can be deployed on the web, Active Directory, portable USB drives, or existing infrastructure.

By isolating applications from the host operating system, Xenocode virtualization allows applications to execute on **locked-down desktops** which are **immunized** against potential failures due to application collisions, upgrades, or Vista migration.

Xenocode Virtual Application Studio allows IT professionals to virtualize existing applications **quickly and easily**. Xenocode virtual applications work immediately within your **existing infrastructure**, with no specialized servers or client installations required. The benefits of your virtualization investment – enhanced productivity and reduced administrative costs – are realized immediately.

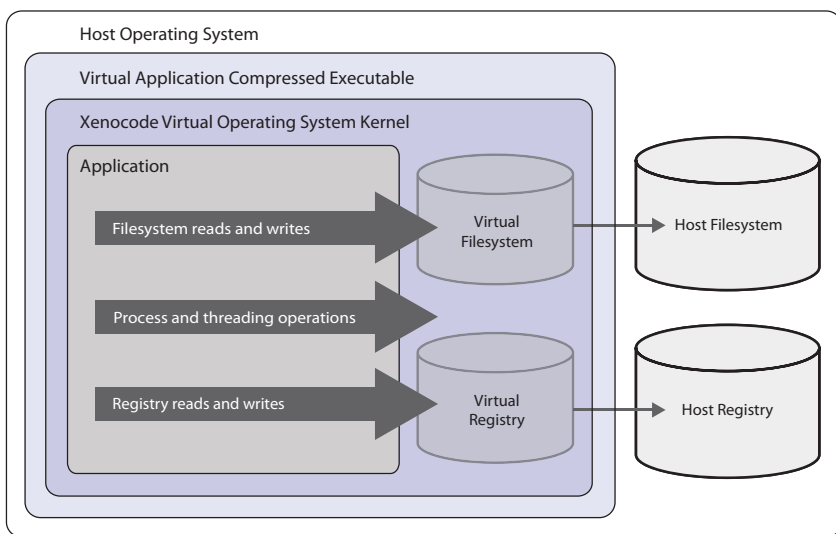
Comparing traditional and Xenocode virtual applications

Traditional application	Xenocode virtual application
Requires completion of a setup process before it can be run by the end-user.	Runs immediately, with zero setup.
Requires administrative privileges to install or use, and raises UAC prompts on Vista.	Runs properly on secure, locked-down desktops, with no Vista UAC prompts.
Requires additional end-user configuration steps after installation before use.	Is pre-configured with all customizations and data appropriate for your organization.
Requires the .NET Framework, Java, MDAC, ODBC, and other runtimes to execute.	Runs on any Windows desktop, immediately, with no external dependencies.
Cannot co-exist with different versions of the same application, increasing upgrade risks.	Runs side-by-side with previous or future application versions.
Breaks when external applications or components are installed or upgraded.	Runs in an isolated environment, immune to conflicts with external applications.

Understanding Xenocode virtualization technology

Xenocode is a next-generation virtualization technology that allows applications to be deployed in lightweight, pre-configured virtual machines that execute instantly on any Windows desktop. The core of Xenocode virtualization technology is the Xenocode user-mode virtual operating system kernel, a compact implementation of Windows operating system APIs, including the filesystem, registry, process, and threading subsystems, completely implemented within the user mode space. This unique, patent-pending virtualization technology allows applications to be executed immediately without any client software, device drivers, or player installations.

Applications executing within the Xenocode environment interact with a virtualized filesystem, registry, and process environment, rather than directly with the host device operating system. The virtualization engine handles requests within the virtualized environment internally or, when appropriate, routes requests to the host device filesystem and registry, possibly redirecting or overriding requests as determined by the virtual application configuration:



Xenocode technology versus hardware virtualization

Xenocode virtualization technology provides decisive performance, reliability, and cost advantages over hardware virtualization and hypervisor solutions:

Hardware virtualization	Xenocode virtual applications
Performance is significantly degraded relative to native execution.	Applications perform at essentially the same speed as when running natively.
Virtual machine images are extremely large and unwieldy. Images contain a copy of an entire operating system.	No host OS is required in the virtual application image. Transparent compression further reduces executable size.
Limited to a small number of concurrent virtual machine instances.	Dozens of virtual applications execute concurrently without breaking a sweat.
Requires separate operating system licenses per virtual machine.	Runs on a single host operating system instance. No additional licenses required.

Application delivery methods

Xenocode offers a wide range of application delivery methods:

- **Web:** Embed applications directly into web pages with a single line of HTML script. Applications launch instantly on the desktop with a single click.
- **Active Directory or other Infrastructure:** Deploy applications to Active Directory users and groups. Start Menu icons and file associations are dynamically provisioned.
- **Standalone:** Deploy applications in standalone executable files or build traditional MSI setup packages. Deploy using simple file copies and manage via scripting.

KEY FEATURES

Get started quickly

Virtualizing even the most complex applications is as simple as installing on a clean machine or importing an existing MSI package. Virtual Application Studio quickly snapshots the installation process or package and automatically configures your virtual environment.

Unprecedented virtualization performance

Lightweight Xenocode virtualization technology allows virtualized applications to achieve the same performance as fully native applications. Transparent compression automatically minimizes executable size.

Powerful customization options

Dynamically remap shell folders such as *My Documents* and precisely control interaction with the host device via customizable isolation semantics. Xenocode virtual applications are fully compatible with manifest-based application isolation (SxS).

Completely user-mode implementation

The Xenocode engine does not depend on any device driver support, eliminating requirements for client installations, administrative privileges, or specialized operating system images.

One-click component configuration

Common runtimes and components such as the .NET Framework, Java, Flash, Shockwave, and PDF can be virtualized with a single click.

PRICING AND LICENSING

System Administrators

Xenocode enterprise licensing is available on a per End User, per Device, or per Site model.

Software Developers

Software developers and publishers can use Virtual Application Studio ISV Edition to virtualize internally developed software. ISV Edition licensing is available on a per Developer or per Application model.

ABOUT CODE SYSTEMS

Founded in 2002, Code Systems is a leading provider of application virtualization and delivery solutions for IT professionals and software developers.

We are pleased to be the trusted solution for thousands of industry-leading consulting, financial, government, military, and technology companies, including Capital One, EDS, General Electric, Hewlett Packard, IBM, KPMG, Lockheed Martin, Microsoft, NASA, Novell, Northrop Grumman, Philips, Siemens, Sony, the US Army, Air Force, and Coast Guard, Qualcomm, Verizon, and tens of thousands of independent developers.