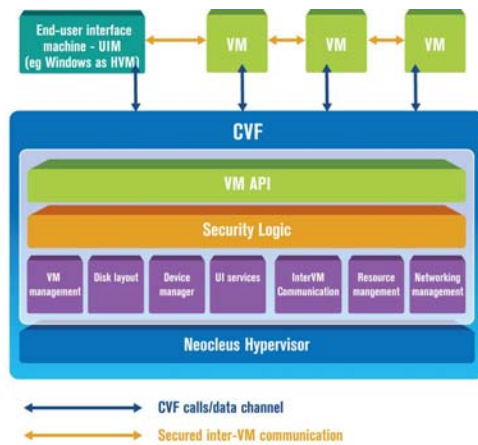


Neocleus Client Virtualization Framework



A robust, extensible platform designed to accelerate the development of virtualization-based client computing solutions.

Neocleus Client Virtualization Framework Benefits

- Enable customers to achieve new levels of IT efficiency, security and agility while also reducing the total cost of client computing ownership.
- Leverage leading edge virtualization technologies and a comprehensive, extensible development platform that includes all the components needed to build solutions fast.
- Reduce development complexity and speed time to market for new solutions without having to learn all new technologies.
- Build single-purpose, task-oriented solutions and policy-based applications that operate in isolated VMs outside the underlying operating system.
- Maximize the security and manageability of applications.
- Easily deploy, update and maintain applications with a pioneering management interface that allows solutions to leverage dedicated networking capabilities.
- Optimize solution performance with innovative device pass-through and dynamic device assignment technologies.

The Neocleus Client Virtualization Framework

In a client virtualization environment, the operating system, applications, and associated data are abstracted from the user's PC and run independently of one another. This approach unleashes new possibilities for solutions that can address the systematic desktop challenges facing today's IT departments.

The Neocleus Client Virtualization Framework (CVF) incorporates Neocleus' client virtualization platform and gives developers what they need to easily build client-hosted virtualization applications and leverage virtualization in existing offerings. A robust set of extendable application programming interfaces (APIs) enables corporate developers, OEMs and independent software vendors to bring client computing solutions to market faster, without having to learn intricate virtualization techniques.

Using the CVF, developers can exploit the power of virtualization to create a range of solutions from virtual software appliances (VSAs) with specific functionality to full-blown applications. These new solutions will provide unprecedented levels of security, be easier to manage, and drive significant operational savings.

A Solid Foundation for Developing Solutions

At its core is Neocleus' groundbreaking client virtualization platform, which is based on the open-source Xen hypervisor virtualization technology. Neocleus has extended this technology to the personal computing environment to deliver a Type 1 hypervisor that is hosted directly on the bare metal of the client hardware. The Neocleus hypervisor is optimized and designed specifically for PC use and enables solutions to efficiently operate in isolated, independent workspaces or virtual machines (VMs).

The platform lays the foundation for a diverse set of applications that address the challenges that IT faces including how to:

- Support virtual workforces where employees operate from the road or home via a public Internet
- Deliver secure access to a network of business partners or clients connecting via Web portals or using their own applications, computers, or networks
- Control corporate assets and images while giving users an open environment in which to work
- Streamline IT operations and consolidate managed desktops
- Build security and management tools that operate outside the underlying operating system
- Embed tools for operating system remediation, support, and application restoration into existing products



Client Virtualization Hypervisor Features
Intel VT – x/AMD-v
Intel VT-d/AMD IOMMU (chipset dependent)
Intel EPT/AMD NPT
64 bit guests
Support for ATI, nVidia and Intel graphics
Graphics card assignment
Power Management
Graphics, sound, network, and ACPI pass-through capability
USB device assignment
PC CARD support (e.g. Cellular 3G modems)
Supports Windows XP, Vista and Linux guests
Client Virtualization Framework API Features
Support for multiple VMs
Flexible deployment options
Inter-VM communication and VM network sharing and management
VM/VSA resource and device level allocation
VM introspection
VM file sharing, printer sharing, and file saving
Sleep and hibernation support
Seamless Windows Integration
Remote management separate from Windows
VM encryption
XML based configuration
Logging and debugging
Client Virtualization Framework System Requirements
VT-x enabled PC
Recommended 2GB of memory

About Neocleus

Leveraging its innovation and technology leadership in client virtualization Neocleus delivers a portfolio that offers an unparalleled level of IT efficiency, security, and agility while reducing the total cost of client computing ownership. Enterprises use Neocleus to tackle client computing challenges and address use cases that were never before possible.

For more information or to learn how the Neocleus Client Virtualization Framework can help you build solutions to address client computing challenges:

- Call 1-800-288-9NEO (1-800-288-9636)
- email info@neocleus.com
- Visit www.neocleus.com

A Comprehensive Set of Application Programming Interfaces

The Neocleus Client Virtualization Framework reduces complexity and development and incorporates a broad range of APIs including:

- Inter-VM communication to enable message and event service between VMs
- Resource management to distribute CPU, RAM, and hard drive memory among VMs
- Device manager to dynamically assign USB devices and optical drives to VMs
- User Interface services to provide a flexible system for VMs' Graphical User Interfaces and desktop integration
- Security services to allow full isolation and independence between VMs, including keyboard, mouse, and screen switching
- VM management to facilitate the deployment and full control of VMs execution
- Disk layout to virtualize the hard drives and provide support for advanced features like snapshot management and dynamic partition size

Quickly Address Diverse Customer Use Cases

Using the Neocleus CVF, developers address a wide variety of use cases including:

- Securing corporate assets inside and outside the network perimeter
- Extending virtualization further out into the organization
- Separating business and personal workspaces on the same machine to give IT control while delivering an open, user-friendly environment
- Merger and acquisition support to allow employees to run two corporate environments on the same desktop
- Painless migration of operating environments and applications, reducing employee downtime
- Remote administration of applications to reduce application deployment time and improve secure access
- Desktop restoration solutions to ease the addition, migration, and changes of applications and improve end-user productivity during upgrades or when a computer is lost/stolen