Intelligent Desktop Virtualization

Next-generation control, performance, and savings with the MokaFive Suite

The next evolution of desktop virtualization can overcome performance and flexibility challenges associated with server-based desktop virtualization models. With MokaFive software running on intelligent clients powered by Intel® Core™ vPro™ processors, users enjoy a rich user experience while IT controls and secures the golden desktop image.

Remember when every PC in your organization was sitting on a desk, too bulky to carry around, and the network they were connected to stopped at the walls of the building? Those days are long gone. Today's users are increasingly mobile. They want the freedom to work almost anywhere and to personalize their computing experience. They want to install applications as needed to do their jobs, and often mix personal computing with corporate applications and data on corporate and personal laptops. These changing realities and the pervasive risk of data loss or theft mean that IT control of desktop infrastructure is more urgent—and more challenging—than ever.

Server-based desktop virtualization models, sometimes called virtual desktop infrastructure (VDI), were designed to give IT administrators greater control over desktop infrastructure and data security. However, that control often meant a sacrifice in end-user performance and freedom. Intel believes that desktop virtualization is poised to evolve into a more sustainable and balanced model. We refer to this next evolution as *intelligent desktop virtualization* (IDV). IDV enables outstanding user experience; simpler, more granular management and control; better economics; and unparalleled flexibility—which means you can build desktop virtualization solutions that meet the needs of users and IT administrators—while delivering real cost savings.

Three Principles for Desktop Virtualization Success

Manage centrally with local execution

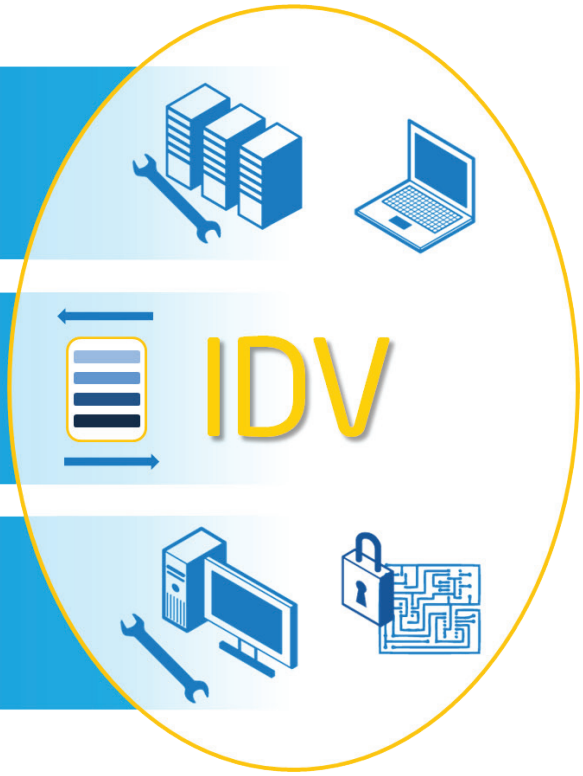
IT manages a golden image, retaining full control over OS and application updates

Deliver layered images intelligently

IT manages the logical segments of the stack as separate layers, which are synchronized bidirectionally

Use device-native management and security

Administrators and software manage and secure endpoints using capabilities embedded in the hardware



IDV with MokaFive Suite

MokaFive Suite is an example of an intelligent desktop virtualization solution that is built on these three principles. MokaFive Suite makes it easy for administrators to create a centrally managed virtual desktop and distribute that desktop to a range of devices, including Macs, PCs, and bare-metal clients. This approach can help significantly reduce TCO, with savings in both operational and capital costs.

Control for IT, Performance for Users

With MokaFive Suite, IT administrators build a virtual Windows* desktop, called a LivePC, as a golden corporate image that remains under IT control. IT then distributes the LivePC to intelligent clients where it runs on the client's installed OS (Mac or Windows) or on bare metal. MokaFive Suite delivers the best of both worlds—local execution means that the LivePC takes advantage of the local platform's capabilities to deliver native performance on or offline, while IT retains centralized control of the corporate image and the ability to customize policies that control the LivePC environment.

Gain Unparalleled Flexibility

MokaFive Suite assembles three layers to create the LivePC image:

- Corporate OS and applications
- User applications (optional, enabled by policy)
- User data and settings

Rejuvenate: Keep Users Productive and Harden Endpoint Security Through Intelligent Layering

Malware is a significant threat to user productivity. In the case of infection, it can take many hours for an IT administrator to back up user data, re-install the OS image, and then restore user data.

With MokaFive, users can perform this function themselves in minutes, dramatically reducing help-desk costs. The Rejuvenate function deletes the compromised application layer of LivePC, while the user's data and settings remain intact. The OS layer remains secure because it is read only on the endpoint.

Users are free to install their own applications and customize settings while IT administrators control the read-only corporate layer. This approach helps ensure security and makes it easy to patch and update the OS and applications on any number of LivePCs across the enterprise. Administrators simply apply patches to the golden corporate image in the data center, and MokaFive Management Server automatically distributes those patches to targeted LivePCs.

Cut Costs While Enhancing Security

The MokaFive LivePC is managed on the endpoint by MokaFive Player, a thin application that interacts with the MokaFive Management Server to ensure the LivePC runs on the endpoint as desired. Player isolates LivePCs from the host OS, which prevents malware on the host from affecting the corporate image running inside the LivePC. Corporate-owned endpoints can run LivePCs with MokaFive's BareMetal Player, which manages a thin Linux-based OS. This approach helps reduce management costs because it does not require seperate tools to manage the host OS. Furthermore, when your intelligent clients are PCs powered by 2nd generation Intel Core vPro processors, you can take advantage of out-of-band management and security capabilities embedded in the hardware. Once activated, Intel® vPro™ technology allows you to remotely power cycle, configure, and diagnose a PC—even if it's unresponsive.[1]

Desktop Virtualization, Evolved

Management of your desktop infrastructure is increasingly urgent in today's mobile and interconnected personal computing environment. With an intelligent desktop virtualization solution using Intel Core vPro processors and MokaFive Suite, your users can have the performance and freedom they expect while you maintain control, strengthen security, and reduce desktop-related costs.

Visit www.mokafive.com today to learn how to get started.

To learn more about desktop virtualization and how it can help improve your IT infrastructure, visit the Intel IT Center at www.intel.com/desktopvirtualization.

MokaFive Suite Components

MokaFive Management Server: Provides central control of images and policies. It is lightweight, secure, and scales to support thousands of users in many locations. It fully integrates with Active Directory (AD), so users can login with their AD credentials, and administrators can target existing AD groups with images or policies.

MokaFive LivePC: A virtual machine running the desktop image. Images are updated dynamically and automatically, work anywhere, and can be deployed quickly. Because the LivePC images run locally, organizations can deploy quickly with minimal investment in infrastructure.

MokaFive Creator: An authoring tool for creating LivePC images and updating existing LivePCs. IT administrators publish new and updated LivePCs to the Management Server for easy distribution.

MokaFive Player: Runs LivePCs securely and privately, isolated from the host OS. LivePCs can run securely on any personal or unmanaged device—Mac, PC, or bare metal.

[1] Requires activation and a system with a corporate network connection, an Intel® AMT-enabled chipset, network hardware, and software. For notebooks, Intel AMT may be unavailable or limited over a host OS-based VPN, when connecting wirelessly, on battery power, sleeping, hibernating, or powered off. Results dependent upon hardware, setup, and configuration. For more information, visit http://www.intel.com/technology/platform-technology/intel-amt.

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