

# V3 Virtual Desktop Infrastructure

Legacy Desktop Virtualization has been around for many years and has provided benefits that include centralized management, lower operating expenses, increased security, computing availability, and efficient application deployment. However, fast performance and scalability have been conspicuously absent from that list. Today, the V3 Appliance architecture makes it possible to add measurable performance improvements and high scalability to the value proposition of virtual desktops.

**Increased Performance.** V3 Appliances deliver the fastest desktop cloud infrastructure in the industry today.

V3 Appliances use PCIe-based solid state as V3-certified storage. This provides faster access time for working data, and lower context switching, which minimizes unnecessary CPU usage when switching between applications to overcome the problems of slow performance and poor end user experience associated with VDI.

By keeping working memory (OS and Temp files) closer to the CPU, access latency is reduced by an order of magnitude while providing optimal use of local storage. This architecture only leverages expensive shared storage (SANs and NAS) for persistent (user) data. So what does V3 mean to its Customers?

**V3 Guaranteed Performance:** Every V3 Appliance is guaranteed to outperform high-performance physical desktops.

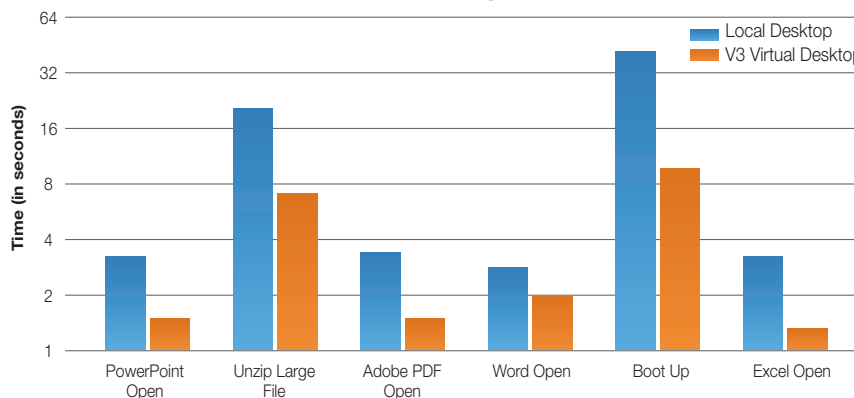
**V3 Guaranteed Utilization:** Every V3 Appliance is guaranteed to maintain superior performance, even at full capacity with heavy workload users.

**V3 Guaranteed Availability:** Every V3 Appliance is delivered with V3's Management & Optimized Desktop Allocation ("ODA") Tools, which enable Customers to migrate and access their persistent or non-persistent desktops in the Cloud, either locally or remotely, without sacrificing performance.

## V3 Appliance Benefits

- Experience performance 2-8x faster than your local desktop even on a remote connections
- Manage Persistent Desktops with Desktops Cloud Orchestrator (DCO) which easily creates, deletes, enables/disables or provisions them as failover/restore pools.
- Streamline desktop administration and return control where it belongs: with the desktop administrator.
- Improve scalability with high-density V3 Appliances
- Improve TCO by replacing high density disk array with highly efficient V3 appliances.

**Virtual Desktop Acceleration**

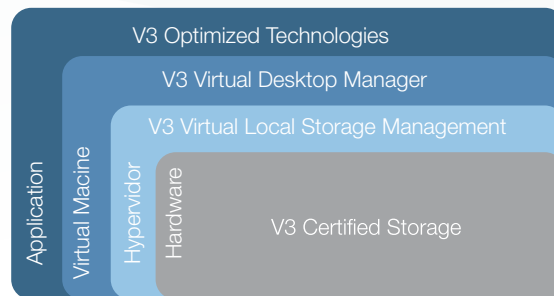


**Dramatic TCO Savings:** Dramatic TCO savings are derived from the way the V3 Appliance is implemented and deployed. Replacing high-density disk arrays with more cost-efficient V3 Appliances lowers energy and operational costs as well as capital or "cost per seat" expenditures.

**Improved Manageability.** Legacy virtual desktop management is performed by a combination of SAN, networking, and core infrastructure administrators, which is complicated and expensive because of the large numbers of people involved. It leaves desktop administrators completely out of the equation. V3's simplified architecture returns control back to desktop administrators who can scale management to encompass thousands of desktops, from either centralized or decentralized locations.

**Improved Scalability.** Because V3 Appliance density and performance are so high, deployments result in lower sprawl with efficient machines that “drop in” to scale from 100's, to 1000's even 10's of thousands without compromising V3's Performance Guarantees.

V3's Optimized Technology stack includes V3 Certified Storage™, the V3 Local Storage Management (LSM) Framework™, and the Local V3 Manager™. V3 Certified Storage utilizes best-of-breed Solid State technology, which is configured optimally using best practices for local storage in V3 Appliances.



The V3 LSM leverages best practices to bridge optimized two-way communications between Certified Storage and Appliance managers both local and remote. The V3 Manager monitors, manages, and optimizes the Certified Storage for optimal configuration and reporting. Health and Performance are reported and delivered either to V3's Local Management interface, or to VMware's vCenter™ via a plugin.

