



BLACKHAWK TECHNOLOGY CONSULTING LLC

Helping your business realize its virtual tomorrow, today.

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Blackhawk Technology Consulting LLC

Blackhawk 7 Pillars of VDI Solution Datasheet

The Desktop Management Challenge:

While purchasing desktops for your organization may be an inexpensive initial purchase, desktops are extremely difficult to manage, maintain, and secure. These desktop challenges can end up costing your business time and money. Gartner reports that an end-user desktop might cost an organization up to \$5386 per user per year to own and operate. Multiple that by how many desktops you have in operation and you could be looking at a significant cost.

- **Difficult To Manage**
- **High Cost of Ownership**
- **Difficult to Protect and Secure**
- **Inefficient Resource Utilization**

The Blackhawk 7 Pillars of VDI Solution:

Blackhawk Technology Consulting LLC proposes an innovative approach to desktop computing which leverages virtualization technologies, application streaming technologies, virtualization security, virtualization management tools, connection brokers, access devices and user workspace technologies to overcome many of the limitations found in the early approaches.

Move beyond the traditional desktop approaches by:

- **Taking Advantage of Virtual Infrastructure**
Utilize all the benefits of a virtual infrastructure such as: backup, failover, and disaster recovery.
- **Enable Efficient Desktop Configuration**
Management through centralized resources will speed up the time to deploy and reduce labor.
- **Strengthen Security**

Manage applications and data centrally while maintaining user isolation.

- **Obtain Value From Existing Infrastructure Investments**
Take advantage of industry standard hardware and management tools.
- **Lower Power and Cooling Costs**
Lower costs through virtualization software and industry-standard hardware and thin clients.

The Blackhawk Approach: The 7 Pillars of VDI

The Blackhawk VDI solution is composed of seven pillars of VDI. This unique approach encompasses a carefully crafted set of solutions, which are the framework of the Blackhawk 7 Pillars of VDI Solution. The Blackhawk Approach is an open framework approach, meaning the solution is specifically tailored to your business needs.

The 7 Pillars of VDI:

- **Access Device**
The Access Device can be a traditional desktop, thin client, or a laptop. This pillar is flexible in that you can employ one or all of the client access devices. Desktops or laptops will be able to initiate a remote session or use a connection broker to a VDI resource, using the remote Desktop Client. Thin clients have advantages such as: reduced cost, stateless configuration, and simplified management.
- **Virtualization Engine**
The Virtualization Engine is responsible for creating the Virtual Machine, allocating memory, disk, CPU, and networking resources to the VM and assigning that VM to a cluster within the virtual data center.
- **Connection Broker**
Providing end-users with their own VDI desktop and ensuring that they will always reconnect to the same virtual desktop for smaller VDI implementations. A connection broker is necessary to avoid tying up memory and CPU resources as well as to suspend and resume virtual desktops or provision new desktops.
- **Application Streaming/Virtualization**
The growth of distributed computing brought about a new set of challenges in management related to performance, network stability, and software compatibility. Application streaming/virtualization have introduced a unified management approach which simplifies application lifecycle challenges and can benefit both distributed and server based computing.

- **Virtualization Management Tool**
Virtualization management and configuration management is vital for a successful VDI solution. Configuration management will ensure your VDI solution is scalable as well as allow IT to automate deployment and carry out continuous management of software (including OS, applications, patches, content, and configuration settings).
- **User Workspace Management Tool**
Every virtual desktop comes to the user in a “plain state”. A “plain state” refers to the desktop being free of personalization, for example, no custom icons or desktop themes. The 6th pillar of VDI was designed to eliminate the “plain state” of virtual desktops to help shape the way users view their workspace in a VDI environment.
- **WAN Optimization**
WAN optimization tools can support VDI and desktop consolidation projects by transparently adding an average of two to three times more user sessions on the same infrastructure. In addition, WAN optimization tools and TCP protocol acceleration will help speed those larger RDP transfers, such as graphic applications usage, web browsing, and image viewing. WAN optimization tools can provide acceleration by an average of 300% with peaks of up to 1000% for virtual desktop user traffic. This kind of acceleration goes a long way to combat the ill effects of latency on application performance.

In order to learn more about how the Blackhawk 7 Pillars of VDI can help your business do more with less and realize the awesome benefits of centralized computing, faster application deployment, secure desktops and ease of access, please contact a representative from Blackhawk Technology Consulting LLC today! In order to inquire about the Blackhawk 7 Pillars of VDI Solution please contact a representative at: 541-505-7229 or VDI@blackhawk-tech.net and our staff will promptly return your inquiry.