leostream

Remote Desktop Access Platform

Case Study

Freescale Semiconductor's Global Engineering
Powered by Dell VDI and Leostream

Customer Profile

freescale semiconductor™

**Empowering Geographically
Dispersed Engineering Teams**

Large, globally dispersed organizations often grapple with fragmented IT infrastructures across multiple locations. This complexity not only inflates hardware, software, and management costs but also poses challenges in delivering seamless support to critical applications and end-users. Freescale Semiconductor, a renowned global leader in embedded processing solutions, faced precisely these issues as it sought to empower its geographically scattered engineering teams.

The Challenge

With 18 research and engineering facilities dispersed worldwide, Freescale's engineers required secure, high-performance access to computing infrastructure and processor-intensive electronic design automation (EDA) applications like Cadence and Synopsys. The goal was to ensure "in-the-office" application performance irrespective of their global location. However, managing separate data centers at each site proved inefficient, complicated, and costly. Freescale decided to consolidate its IT infrastructure into just two data center locations to enhance security, streamline operations, and achieve economies of scale. This change necessitated a solution that could deliver secure global access to EDA applications through a Linux-based Virtual Desktop Infrastructure (VDI).

The Solution

Freescale searched for a VDI solution that could meet its stringent requirements for security, high-performance computing, and global accessibility. Three leading IT solution providers, including Dell, were invited to develop a proof of concept for a VDI that could offer engineers worldwide a secure, lightning-fast application experience. Eventually, Freescale entrusted Dell to deliver a comprehensive global VDI solution. The solution's requirements included Linux virtualized desktops, high-performance protocols, and universal accessibility, leading to the inclusion of the Leostream Connection Broker in the solution.

Implementation

As the driving force behind the project, Dell assisted Freescale in selecting and installing the most suitable infrastructure components, including state-of-the-art Dell blade servers integrated with Violin flash memory arrays for significantly reduced latency compared to traditional storage solutions. They optimized the VDI environment to work seamlessly with VMware, the chosen hypervisor for the VDI.

Solution Partners:

The solution that Freescale chose for secure, high-performance, and globally accessible VDI involved multiple innovative project partners:

✓ **OpenText Exceed OnDemand:** This solution, chosen for its ability to deliver secure, "in-the-office" performance to remote engineers, leverages ultra-low-latency connectivity, WAN optimization, and intelligent caching.

✓ **Leostream Connection Broker:** Offering vendor-agnostic connection broker technology, Leostream provides authentication for end-users and secure access to applications and services wherever needed.

✓ **Xangati Technology:** Deployed for real-time performance monitoring within the VDI, ensuring optimal performance.

The Benefits

As a result of implementing the multi-partner solution, Freescale has garnered a multitude of efficiencies:

✓ **Secure, In-The-Office Experience for Global Engineers:** Engineers at over 80 locations worldwide now enjoy secure, high-performance application experiences, eliminating the need to transmit large data sets across vast geographical distances.

✓ **Accelerated Time-to-Market:** Super-fast application performance has streamlined Freescale's design processes, facilitating the swift development of innovative products and enhancing its competitive edge.

✓ **Cost Savings:** By consolidating data centers into just two locations, Freescale has reduced infrastructure, management, power, and cooling costs. Service delivery overheads have decreased by 20 percent.

✓ **Future-Proofed Operations:** Freescale can now efficiently allocate additional resources centrally, eliminating the need to replace desktops when new software versions are released.

Conclusion

Freescale Semiconductor successfully transformed its infrastructure through its collaboration with Dell and its choice of partners like Leostream. By replacing 18 data centers with two large VDI centers and three satellites, the company achieved secure, in-office experiences for its global workforce accessing high-performance applications. This endeavor enhanced efficiency and accelerated innovation while reducing costs, future-proofing operations, and boosting employee satisfaction.

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