

At a Glance

Virtual Instruments ensures the performance and availability of mission-critical applications by providing a comprehensive infrastructure optimization platform. The award-winning VirtualWisdom and SANInsight infrastructure optimization solutions provide real-time monitoring, measurement, and analysis of physical, virtual and private cloud computing environments. Virtual Instruments helps IT organizations maximize the performance, utilization and availability of their infrastructure to optimize capital and operating expenditures.

VIRTUAL INFRASTRUCTURE OPTIMIZATION

Virtual Instruments understands the challenges taking place in today's virtualized data centers. Ensuring adherence to performance and availability SLAs in virtualized and private cloud environments is one of the major challenges facing IT managers. The solution is getting comprehensive visibility and meaningful data about virtualized applications and its supporting infrastructure on both a real-time and historical basis. Virtual Infrastructure Optimization, a new category of data center management solutions, holistically assesses the entire virtual and physical infrastructure, and provides the IT manager with the data necessary to make intelligent decisions about capacity, utilization, and performance for every layer of the open systems infrastructure, including server, storage, network, and applications.

As SANs continue to grow, and the entire IT infrastructure becomes increasingly virtualized, businesses face the challenges of ensuring that their mission critical I/O infrastructure is available 24x7, performing as expected, and supported by minimal resources. Virtual Instruments' VirtualWisdom customers are typically Global 2000 entities running business-critical applications in complex, multi-vendor data centers. Our customers have adopted VirtualWisdom as a best practice to assure application availability, optimize SAN resources, improve application performance, and reduce operating and capital costs. Customers from industries including financial services, telecommunications, healthcare, utilities, manufacturing, retail, and government have adopted VirtualWisdom as a critical enabling platform to improve the efficiency of their IT organizations and to reduce business risk, especially during infrastructure migrations and data center consolidations. Primary benefits for Virtual Instruments users include:

- *Up to 80% reduction in OpEx costs through faster problem resolution, reduced outages and lower maintenance fees on server and SAN storage resources*
- *Up to 50% decrease in infrastructure CapEx costs through elimination of storage link over-provisioning and through performance-based tiered storage optimization*
- *Better adherence to & monitoring of performance and availability SLAs accelerates the deployment of virtualized mission-critical applications and ensures a smooth migration to a private cloud environment*
- *Significantly higher revenues through accelerated application & SAN deployments, including vastly reduced risk of outages.*



VirtualWisdom representative topology

VirtualWisdom®

VirtualWisdom is the leading infrastructure performance and availability optimization solution and is installed in hundreds of the world's largest data centers. Comprised of hardware and software probes and an easy to use graphical user interface, VirtualWisdom includes comprehensive, real-time and historical monitoring and measurement of server and SAN utilization, performance, and availability to drive significant business and operational benefits. VirtualWisdom is the only product that can non-intrusively improve the performance of virtualized applications in real-time by analyzing actual SAN I/O traffic data. VirtualWisdom tracks the I/O conversations across the SAN infrastructure to provide real-time measurement and trend analysis of the overall performance of enterprise applications, VMware Virtual Machines, and the Fibre Channel SAN. VirtualWisdom delivers when detailed knowledge of I/O performance is essential, such as business-critical enterprise applications deployed with server and storage virtualization technologies.



Example VirtualWisdom dashboard

Today's most common management solutions such as Enterprise Management Frameworks, Storage Resource Management, Virtual Server monitors, and vendor-supplied SAN component managers all lack physical, real-time monitoring of the I/O path from the VM to the LUN. Legacy storage management products typically poll SAN devices and average the metrics over 5 - 20 minute periods, which is insufficient to find the root cause of most problems. They do not find intermittent issues or the really hard to find problems that have more than a single cause. Only VirtualWisdom finds the root cause and helps IT managers proactively avoid problems. Finally, VirtualWisdom is available as a Professional Services consulting engagement, to offload work from your internal IT staff.



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