

Virtual Instruments Portable Performance Assessment Kit

Mobile SAN and Virtual Infrastructure Monitoring & Analysis Solution

The Virtual Instruments portable Performance Assessment Kit (PAK) is an integrated mobile unit that includes everything required to identify the root causes of Storage Area Network (SAN) performance and availability problems. The mobile unit can be easily moved between data centers due to its rugged, integrated design.



The PAK includes the essential software and hardware components associated with and VirtualWisdom™ solutions. VirtualWisdom provides comprehensive, real-time instrumentation and measurement capabilities that allow IT managers to optimize the performance and availability of their SANs and virtualized / private cloud IT infrastructure. It is the leading SAN instrumentation,

Performance Assessment Kit FEATURES

- Enabling technology for Virtual Instruments professional services
- Portable, out-of-band SAN and virtualized infrastructure monitoring and analysis
- Integrated ProbeFCX for real-time monitoring of all transactions across the Fiber Channel SAN
- VirtualWisdom software for real-time and historical reporting
- Integrated Fiber Channel Protocol Analyzer for deep protocol-level analysis
- Integrated Roving Physical Layer switch to lower the cost of monitoring every SAN link
- Integrated, hardened, rolling case to ease movement between data centers and simplify installation

Performance Assessment Kit BENEFITS

- Dramatically improves IT personnel productivity by accelerating SAN and virtual infrastructure problem identification and resolution
- Improves application performance and response times by immediately identifying performance issues, enabling fast problem resolution. Problems can be solved in hours/days as opposed to weeks/months.
- Increases overall application uptime by generating predictive data on potential problems before affecting end-users

Virtual Instruments Performance Assessment Kit (PAK)

monitoring and analysis solution used today. VirtualWisdom adds SAN I/O intelligence to VMware™ deployments, enabling administrators to better balance the deployment of virtual machines based on real-time measurements and feedback of I/O performance. This results in significantly higher virtual infrastructure utilization and helps administrators reduce capital and operational costs associated with an IT organization's servers and storage.

The Virtual Instruments Performance Assessment Kit, with its hardened, rolling case, is designed to allow a new level of diagnosis and failure prevention on large, heterogeneous Fibre Channel Storage Area Networks (SANs) running business-critical applications. Virtualization and storage administrators can implement all or portions of the VirtualWisdom capabilities to address specific performance or availability issues, verify service level agreements, and provide deep monitoring and analysis of the virtualized data center.

PAK Solution Components

The Performance Assessment Kit includes the following hardware and software components:

- VirtualWisdom Portal and Views Software
- Probe V switch monitoring software
- ProbeVM vCenter monitoring software (if using VMware)
- ProbeFCX hardware monitoring device
- Fiber Channel Protocol Analyzer
- Roving Physical Layer Switch (Rover)
- Windows-based server appliance to run the VirtualWisdom Portal and Views Software
- Integrated, hardened, rolling case with flexible power connections

Although the above represents the standard default components for every PAK, the final configuration components may vary depending upon the specific needs

of the environment and number of SAN links being monitoring.

A pre-requisite to achieve the full benefits of the PAK is the deployment of Virtual Instruments Traffic Access Points (TAPs). A TAP is a passive (unpowered) device that uses a fiber optic splitter to create an out-of-band copy, using a small portion of the total light budget, of all traffic passing through it. A TAP has one input, from the transmit (TX) channel of a fibre channel port, and two outputs: one provides the 'live' signal to the receive (RX) channel on the destination port; the other provides the TAP output – the copy of the signal – to downstream devices such as the Virtual Instruments Rover, ProbeFCX, or Protocol Analyzer. TAPs are purchased and deployed independently from the PAK.

Key PAK Specifications

- Dimensions: Width: 26", Depth: 37", Height: 42"
- Weight: Approximately 450lbs
- Includes 3 meter cables
- Electrical: Requires 1 dedicated circuit of 15 amps, but can also use 20 or 30 amp connections as below:
 - NEMA 5-15P 125V, 15A Straight Blade
 - NEMA 5-20P 125V, 20A Straight Blade
 - NEMA 6-15P 250V, 15A Straight Blade
 - NEMA 6-20P 250V, 20A Straight Blade
 - NEMA L5-15P 125V, 15A Twist-Lock
 - NEMA L5-20P 125V, 20A Twist-Lock
 - NEMA L5-30P 120V, 30A Twist-Lock
 - NEMA L6-15P 250V, 15A Twist-Lock
 - NEMA L6-20P 250V, 20A Twist-Lock
 - NEMA L6-30P 240V, 30A Twist-Lock
- Requires Ethernet connection with unique IP address



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