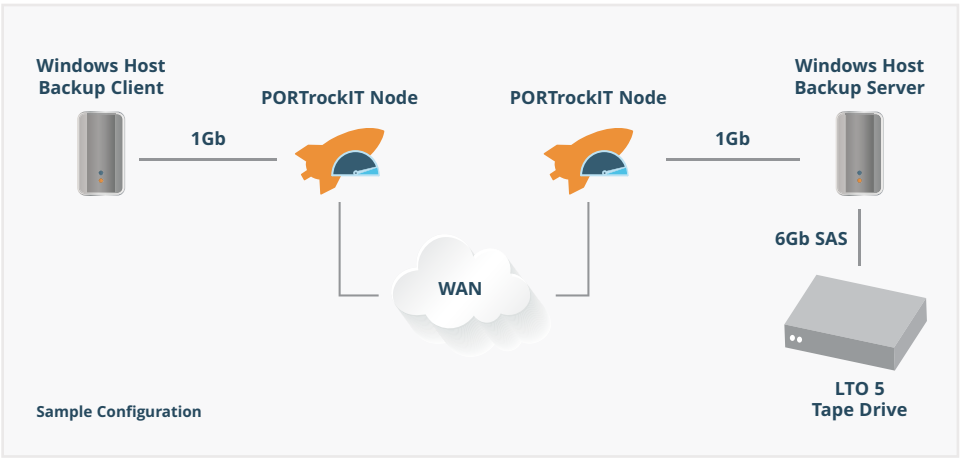
BRIDGEWORKS
simply making data flow

PORTrockIT™ series

Datasheet: PORTrockIT™ Series 400 Appliance

Background

There are several reasons for poor performance when sending data across a WAN, but the chief culprit is latency – the time delay between a source system sending a packet across the network and the target system receiving that packet. The main cause of latency is the physical distance and all the intermediate pieces of equipment the data encounters on route. It is universally recognised that when data is sent over the network using TCP/IP, even modest latency levels can severely cripple performance. Add in packet loss and the whole situation becomes totally untenable.



Companies often try to solve TCP/IP performance issues by investing in more expensive network infrastructure that offers a larger maximum bandwidth. However, this does not fix the underlying problem of latency. Latency and packet loss prevent TCP/IP connections from fully utilising the available bandwidth – so any extra investment in bandwidth will simply be wasted unless the latency and packet-loss issues can be addressed.

The solution: PORTrockIT

PORTrockIT provides a solution to network latency and packet loss issues. Instead of sending a group of packets down a single physical connection and waiting for a response, the solution creates a number of parallel virtual connections that send a constant stream of data across the physical connection.

This parallelisation practically eliminates the effects of latency by ensuring that the physical connection is constantly transferring new packets from the sender to the recipient: there is no longer any idle time, and the networks bandwidth can be fully utilised.

PORTrockIT optimises the flow of data across the WAN in real time, even if network conditions change. By incorporating a number of artificial intelligence (AI) engines that continuously manage, control and configure multiple aspects of PORTrockIT thus enabling the PORTrockIT to operate optimally at all times, without any need for input from a network administrator.

Whilst it is impossible to mitigate all of the effects of packet loss, PORTrockIT will through the use of the AI engines, learn its way around the worst effects of packet loss and provide magnitudes of performance improvement over that of standard network connection.

In practical terms, PORTrockIT is, deployed at either end of the WAN. This can be as a point to point connection or as a networked number of PORTrockIT nodes.

PORTrockIT is available as a virtual instance or as a physical appliance. Every PORTrockIT node can communicate with PORTrockIT node irrespective of whether it is a Virtual instance, Physical instance or a different series model.

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Vendor support

PORTrockIT is available today to work with FTP, REST, NetApp SnapMirror, NetApp SnapVault, Veritas NetBackup, IBM Spectrum Protect, Caringo and Datacore. Please contact Bridgeworks if your vendor software is not listed below or you have unique/encrypted data you wish to accelerate. We have a large ongoing test programme to add many more vendors to the portfolio.

PORTrockIT Appliance Configurations

Max throughput	1GB/s
PORTrockIT licences	4
Connected Nodes	10
Smart Compress Support	Yes*
NAT support	Yes
WAN ports (max)	2 x 10Gb
LAN ports (max)	6 x 1/10Gb
Dual PSU	Yes
Voltage	110-240 VAC
Power max Watts	540W
Size	2U
H W D inch	1.6 17.4 28.5
H W D mm	86.4 440 730

1 Firmware Image includes: current image, previous image: recovery image, configuration and logs.* Will be announced during 2016

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