

Overview

The HP ProLiant Essentials Accelerated iSCSI Pack enables the embedded Multifunction NIC port on a ProLiant or BladeSystem server to run iSCSI on Windows and Linux. iSCSI allows block-level storage data to be transported over widely used IP networks, enabling end users to access the storage network from anywhere in the enterprise. Additionally, it offloads the iSCSI function to the NIC rather than taxing the CPU of the server. The Accelerated iSCSI Pack is for use with initiator software only, and the licenses are port-based.

ProLiant Essentials Accelerated iSCSI Pack license keys may be purchased for a one-time activation of licensed features installed at that time. After the initial activation, functional upgrades will require the purchase of upgrade license keys to activate new features and enhancements made to the ProLiant Essentials Accelerated iSCSI Pack

In all cases, one ProLiant Essentials Accelerated iSCSI Pack license is required for every embedded port on which the product is installed and used. Licenses are non-transferable. Full details are contained in the End User License Agreements.

Models

Licensing and Packaging	ProLiant Essentials Accelerated iSCSI Pack, No Media, 1-Server License NOTE: For use with a single NIC port. Contains one license with a unique license activation key and documentation.	452679-B21
	ProLiant Essentials Accelerated iSCSI Pack, No Media, Flexible-Quantity License NOTE: For use with multiple NIC ports (minimum of 5). This part number allows you to specify the license quantity. When ordering this part number, the quantity ordered will be the number of licenses embedded in a single activation key. A single kit containing that key is then delivered to you.	452680-B21

Kit Contents	One peel and seal envelope containing a license card and license key label
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Standard Features

Accelerated iSCSI

Accelerated iSCSI Pack for Embedded Multifunction Server Adapters enables the embedded network controller's iSCSI offload engine (for the supported operating systems) thereby providing access to storage boxes and to servers over a single connection.

It offloads the iSCSI software to the hardware for improved performance. With the protocol stack processing offloaded to the NIC, it reduces CPU utilization. This sort of offloading can greatly improve the speed with which requests are processed and sent to the network.

The process begins when an application sends a request to the operating system (OS) to read or write data. The OS generates the appropriate SCSI commands and data request in the form of a message. Before the message can be sent over an IP network, it is processed through iSCSI to encapsulate the request into the TCP/IP protocol stack (attaching routing, error checking, and control information) for transmission over the network. The network adapter, functioning as an HBA, transmits the packets over the IP network. When the packets reach the target device, they go through a reverse process to reassemble (sequence) the data, which is then moved to the SCSI controller. The SCSI controller fulfills the request by writing data to or reading data from the target device. If it is a read transaction, the target returns data to the initiator using the iSCSI protocol.

Customer Benefits

iSCSI enables improvements in the economics, operating distance, and manageability of storage networks. iSCSI also leverages the security capabilities of IP networks.

- **Cost** - can potentially achieve a lower total cost of ownership (TCO) than Fiber Channel. Depending on application demands, Ethernet SANs can leverage existing IP network infrastructures
- **Increased data sharing** - direct-attached storage creates "islands" of storage that limit the sharing of data
- **Consolidation of storage** - resources can be efficiently allocated, shared and managed

Supported Products

Supported operating systems	Microsoft Windows Server 2008
	Microsoft Windows Small Business Server 2003
	Microsoft Windows Server 2003 Web Edition
	Microsoft Windows Server 2003 Enterprise Edition
	Microsoft Windows Server 2003 Standard Edition
	Microsoft Windows 2000 Advanced Server
	Microsoft Windows 2000 Server
	Red Hat Enterprise Linux 5 AS/ES for AMD64/EM64T
	Red Hat Enterprise Linux 5 AS/ES for x86
	SUSE LINUX Enterprise Server 10 SP1 for AMD64
SUSE LINUX Enterprise Server 10 SP1 for x86	

Supported browsers for client systems	Microsoft Internet Explorer 6.0, SP1 or later
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Supported servers	HP ProLiant ML350 G5
	HP ProLiant ML370 G5
	HP ProLiant ML570 G4
	HP ProLiant DL360 G5
	HP ProLiant DL365
	HP ProLiant DL380 G5
	HP ProLiant DL385 G2
	HP ProLiant DL580 G4
	HP ProLiant DL580 G5
	HP ProLiant DL585 G2
	HP ProLiant DL785 G5
	HP ProLiant BL20p G4
	HP ProLiant BL25p G2
	HP ProLiant BL45p G2
	HP ProLiant BL460c
	HP ProLiant BL465c
	HP ProLiant BL480c
HP ProLiant BL680c	
HP ProLiant BL685c	

Supported iSCSI Targets	Any iSCSI storage targets that support Microsoft iSCSI Software Initiator version 2.0
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Service and Support, HP Care Pack, and Warranty Information

Warranty

HP will replace defective delivery media replacement for a period of 90 days following the date of purchase.

Related Options

Service and Support Offerings (HP Care Pack Services)	HP 1 year 24x7 Accelerated iSCSI Software Technical Support	UF550E
	HP 3 year 24x7 Accelerated iSCSI Software Technical Support	UF551E
	NOTE: For more information, customer/resellers can contact http://www.hp.com/hps/carepack/services/	

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