



# HP NonStop I/O Essentials

## Virtualize the configuration and control of all Cluster I/O Protocols (CIP) management tasks

HP NonStop I/O Essentials is a product in the HP NonStop Essentials product family and is a plug-in to HP Systems Insight Manager (SIM). HP SIM is an infrastructure management tool for HP systems that runs on a Windows® or Linux-based Central Management Server (CMS) or on a NonStop System Console (NSC). The Windows or Linux CMS can be a physical server running Windows or Linux directly on the bare metal, or a virtual server running Windows or Linux on a VM with the VMware ESX or ESXi hypervisor. The NonStop I/O Essentials plug-in provides a graphical user interface to virtualize the configuration and control of all Cluster I/O Protocols (CIP) management tasks, and obviates the need to learn new command line tools to manage CIP subsystem.

### Key features

NonStop I/O Essentials provides the following features to enhance the customer experience and operator efficiency:

- Automatic selection of targets (such as cluster I/O Modules [CLIMs]) to perform a management task
- Multiple target selection for parallel execution of tasks, where possible
- Does not allow multiple target selection for tasks where it is not possible (for example, same IP address for maintenance interfaces of multiple CLIMs)
- Parameters in human-friendly format
- Drop-down boxes for parameters with limited set of values
- Checkboxes for parameters with Boolean (true/false) values
- Default values automatically filled in, with an option to change them
- All management task results displayed in a single Web page

### Key benefits

The major benefits of using NonStop I/O Essentials include:

- **Ability to perform all CIP management tasks without knowing the syntax of NonStop or Linux commands:** With NonStop I/O Essentials, you do not have to learn new commands for the CIP subsystem.

- **Ability to perform CIP management tasks on multiple targets:** With NonStop I/O Essentials, you can perform CIP management tasks on multiple targets including CLIMs, disks, and tapes, in parallel.
- **Ability to configure and control all aspects of CIP due to pre-created management tasks shipped out-of-box:** You get out-of-box tasks so that anything and everything on CLIMs, disks, and tapes can be configured and controlled.
- **Encrypted communication between console and NonStop systems:** All of the data in motion between console and NonStop systems is encrypted over Secure Shell (SSH).
- **Ability to manage remotely:** NonStop I/O Essentials provides a way to manage all aspects of the CIP subsystem completely, remotely through a Web browser.

### Management tasks

NonStop I/O Essentials provides support for all configuration and control tasks in CIP subsystem. These include, but are not limited to:

- Configuration and control of NonStop processes managing the CIP subsystem
- Configuration and control of CLIMs
- Backup of CLIM configurations
- CLIM reboot
- Configuration and control of data and maintenance interfaces
- Configuration and control of IPv4 and IPv6 addresses
- Configuration and control of data and maintenance providers
- Configuration and control of bonding interfaces
- Configuration and control of tunnel interfaces
- Configuration and control of network routes
- Configuration and control of CLIM-to-CLIM failover
- Configuration and control of all aspects of IPsec, including key management, security policy management, security association management, remote entry management, and Virtual Private Network (VPN) management.
- Configuration, control, and comparison of storage Logical Unit Numbers (LUNs)
- Configuration and control of NonStop disk volumes and paths
- Configuration and control of NonStop disk partitions

Technical specifications	
<b>NonStop Hardware</b>	<ul style="list-style-type: none"> <li>• Any HP Integrity NonStop BladeSystem</li> <li>• Any HP Integrity NonStop NS-Series server</li> </ul>
<b>Windows CMS Hardware</b>	Windows-compatible 32-bit or 64-bit system with at least 4 GB RAM (8 GB recommended)
<b>Linux CMS Hardware</b>	HP IA-32 or IA-64 AMD64 or EMT64T system with at least 4 GB RAM (8 GB recommended)
<b>NonStop Software</b>	<ul style="list-style-type: none"> <li>• HP NonStop Operating System Release Version (RV) J06.03 or later</li> <li>• HP NonStop Operating System Release Version (RV) H06.17 or later</li> </ul>
<b>Windows CMS Software</b>	<ul style="list-style-type: none"> <li>• Microsoft® Windows Server 2003 R2 Standard or Enterprise (x86 or x64 version)</li> <li>• Microsoft Windows Server 2008 Standard or Enterprise (x86 or x64 version)</li> <li>• Microsoft Windows Server 2008 R2 Standard or Enterprise (x86 or x64 version)</li> <li>• VMware ESX 3.5 or later</li> <li>• VMware ESXi 4.1 or later</li> <li>• HP SIM 6.3 or later</li> <li>• Local or remote Microsoft SQL Server database</li> </ul>
<b>Linux CMS Software</b>	<ul style="list-style-type: none"> <li>• Red Hat Enterprise Linux 4 or later (32 bit or 64 bit)</li> <li>• VMware ESX 3.5 or later</li> <li>• VMware ESXi 4.1 or later</li> <li>• HP SIM 6.3 or later</li> <li>• Local PostgreSQL database</li> </ul>

Ordering information	
Product ID	Product Description
<b>IOE01V1</b>	HP NonStop I/O Essentials—Windows Console
<b>LCIOE01V1</b>	HP NonStop I/O Essentials—Linux Console
<b>QIOE01V1</b>	HP NonStop I/O Essentials—HP NonStop BladeSystem
<b>HIOE01V1</b>	HP NonStop I/O Essentials—NonStop NS-Series server

- Configuration and control of NonStop tapes
- Configuration and control of volume level encryption
- Configuration and control of Telco CLIMs
- Configuration and control of SS7 networks for Intelligent Network Server (INS) management
- Configuration and control of InfiniBand (IB) CLIMs

Enhance customer experience and operator efficiency by leveraging the flexibility of HP NonStop I/O Essentials; visit: [hp.com/go/nonstop/essentials](http://hp.com/go/nonstop/essentials)

## HP Services

Fundamental shifts in technology are changing the role of and expectations from IT in today's enterprise. Mobile access and interconnectivity, cloud computing, virtualization, and standardization are key examples of this shift. Moreover, the demands of mission-critical workloads continue to expand, requiring global 24x7x365 high availability, reduced downtime, reduced costs, and enhanced virtual

environments. That's why you should put the strategic and technical know-how of HP service experts to work for your HP server environment. HP services span the technology lifecycle—solution assessment and design, installation and startup, data center planning, training, and ongoing support—to create a highly manageable, cost-effective infrastructure based on open standards and industry leading innovation. For more information, visit [hp.com/services](http://hp.com/services).

To respond to business needs, IT must be "Always-On" and must be able to optimize all resources, utilizing people, processes, and technology most effectively. Our Always-On support services offer a support experience that is proactive, personalized, and simplified—delivering support when you need and how you need. We simplify your support experience with straightforward service levels and a single point of contact, and leverage automation and online tools to optimize performance and address issues proactively. For more information on HP Always-On support, visit [hp.com/us/en/business-services/it-services.html?compURI=1197844](http://hp.com/us/en/business-services/it-services.html?compURI=1197844).

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