HP NONSTOP IN AN INSTANT-ON ENTERPRISE

Operations and Manageability

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FORWARD-LOOKING STATEMENTS

This document contains forward looking statements regarding future operations, product development, product capabilities and availability dates. This information is subject to substantial uncertainties and is subject to change at any time without prior notification. Statements contained in this document concerning these matters only reflect Hewlett Packard’s predictions and / or expectations as of the date of this document and actual results and future plans of Hewlett-Packard may differ significantly as a result of, among other things, changes in product strategy resulting from technological, internal corporate, market and other changes. This is not a commitment to deliver any material, code or functionality and should not be relied upon in making purchasing decisions.
A NEW TYPE OF ENTERPRISE

It is here and not a moment too soon
The Instant-On Enterprise
IT turns business & government “on,” instantly

- Everything and everyone is connected
- Everyone expects immediate gratification and instant results
- Enterprise and IT are one in the same
- Respond to continuous opportunity and competition
- Anywhere, any time, any way
CUSTOMER PROBLEM
Current status

30% New IT project initiatives
70% Ongoing IT operations

Needs to be

INNOVATION OPERATIONS

Flip the ratio from operations to innovation
Flipping the ratio
What you need to do

Modernize
Architect solution for change

Transform
Break silos with a converged infrastructure

Secure
Protect assets without constricting flow

Optimize
Control and exploit information

Deliver
Right method, right time, right cost
IMPACT

Create an Instant-On Enterprise today with HP Integrity NonStop systems
| Modernize | Modern programming languages and development environment (Java, C++, Eclipse,…)  
Modern application architecture (SOA, SASH)  
Modern management applications (NonStop Essentials, OVNM,…) |
| --- | --- |
| Transform | Converged Infrastructure (Common hardware, firmware, rack, power, cooling,…)
Operations management (SIM, Insight Control Power Management,…)
Business transformation (BTO products) |
| Secure | On-platform security (Safeguard, Guardian security)
Secure data-in-motion and data-at-rest (SSH, SSL, Volume Level Encryption)
Compliance and auditing (XYGATE Merged Audit, Compliance PRO, ArcSight ESM) |
| Optimize | Infrastructure optimization (Insight Control Power Management)
Performance optimization (NonStop Performance Essentials, ASAP, OVNPM,…)
Business technology optimization (BTO products) |
| Deliver | System delivery to match your exact specifications (hardware, software and cabling)
Service delivery by trained professionals
Remote support automation (Insight Remote Support Advanced) |
INTEGRATE, INNOVATE AND INVEST

NonStop manageability provides flexibility based on your environment
NonStop manageability strategy

Best TCO and best TCE to customers

Customer satisfaction
Create new manageability products and solutions, and enhance and improve existing ones to satisfy customer needs

Customer choice
Provide customers a comprehensive selection of manageability products and solutions to adapt to their specific environments

Enterprise integration
Add support of HP SIM, Essentials, BTO and other enterprise management solutions (e.g., Tivoli, Unicenter, Patrol, Netcool) to manage NonStop in heterogeneous enterprise environments

Integration with HP Instant-On Enterprise and Converged Infrastructure
NonStop manageability portfolio
Adapts to your environment

Serviceability products
- OSM
- Onboard Administrator
- iLO

HP SIM-based products
- HP SIM
- NonStop Cluster Essentials
- NonStop Performance Essentials
- NonStop I/O Essentials
- NonStop Software Essentials
- HP Insight Control Power Management
- HP Insight Remote Support Advanced

Operations Management Bundle
- Web ViewPoint
- Pocket ViewPoint
- ASAP
- ASAP plug-in for Web ViewPoint

Performance Management Bundle
- Measure
- GPA
- ViewSys
- TPDC
- Open Database
- Data Browser
- NonStop Performance Reporter
- DiskPro
- SPA
- Pathway View

HP BTO-based products
- Business Availability Center
- Operations Center
- Network Management Center
- Data Center Automation Center
- Service Management Center
- Universal CMDB
- OVN M
- OVNPM
- NonStop Tivoli Adapter

Other manageability products
- RPM
- TimeSync
- Nagios
Serviceability products
Manage hardware, firmware and infrastructure

Serviceability products
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- Onboard Administrator
- iLO

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Other manageability products
- RPM
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- Nagios
## OSM recent and future enhancements

### Recent enhancements
- Support of HP Integrity NonStop NB54000c
- Support of DL380G6-based CLIMs
- Support of new SAS disk enclosures
- Support of Access Control Lists (ACLs) to allow separation of duties
- Support of configuration of the cryptographic ciphers used for Secure Sockets Layer (SSL) connection
- Detection and alerting of duplicate CLIM IP addresses and MAC addresses
- A new guided procedure to register CLIMs with Enterprise Secure Key Managers for Volume Level Encryption
- A new action on the c7000 enclosure to display diagnostic results
- A new action on SAS disks to set LED
- Support of specifying the process priority for Clear Data and Validate Checksum actions on disks
- Support of specifying the security permissions of the created files
- Support of Windows 7
- Support of Internet Explorer 8
- Support of character encoding in OSM Event Viewer

### Future enhancements
- Support of all new hardware
- Parallel CLIM software and firmware update
- Support of IPv6 network
- Support of Common Diagnostics Model (CDM)
- Support of Windows Server 2008
- Support of new JRE version

This is a rolling (up to three year) Statement of Direction and is subject to change without notice.
HP SIM-based products

Manage NonStop using the single pane of glass with HP SIM

Serviceability products
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- Onboard Administrator
- iLO

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HP Systems Insight Manager (SIM)
The foundation for Converged Infrastructure Management

- Manages all HP servers, storage and networking devices, including NonStop
- Installs on Windows, Linux or HP-UX CMS (Central Management Server)
  - Supported on Windows and Linux CMS for NonStop
- Inventory, fault, and configuration management
- Secure - Role-based authorizations; OS-based authentication; SSL, SSH support
- Distributed task facility to remotely run commands, scripts, and batch files on managed systems
- Plug-in extensibility – add additional tools and applications
NonStop integration with HP SIM

- Discovery and identification of NonStop systems via WBEM support provided by OSM
- NonStop hardware devices and alarms displayed in HP SIM
- Graphical representation of racks, enclosures and blades of NonStop BladeSystems
- NonStop Guardian and OSS commands invoked from HP SIM
- Links to OSM Service Connection and OSM Event Viewer

Supported for NonStop BladeSystems, NonStop NS-Series servers and NonStop S-Series servers

- Support of HP SIM 6.3 available now
- Support of HP SIM 7.0 coming soon

HP SIM shipped free-of-charge with NonStop System Console (NSC) DVD suite

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NonStop Essentials portfolio

NonStop Cluster Essentials
NonStop Performance Essentials

NonStop I/O Essentials
NonStop Software Essentials
NonStop Cluster Essentials
One package to perform all cluster management tasks

- Support of any clustering technology
- Integrated health, event and alarm monitoring
- System provisioning and orchestration
- Virtualized configuration and control of many NonStop subsystems
- Unified user account management
- Software consistency check across multiple systems
- Integrated hardware and software inventory reporting
- Support of multiple Central Management Servers (CMSs) for fault tolerance, and facilities to import/export configurations between them
- Scalable from 2 to 100’s of systems
- All communication between CMS and managed systems secure and all data encrypted

Support of NonStop BladeSystems, NS-Series servers and S-Series servers
Support of ProLiant Redhat Linux BladeSystems and rack-mount servers

Version 2.1.0 available now with support of Linux CMS and multiple usability and security enhancements
NonStop Cluster Essentials

Future enhancements

- Remote provisioning of multiple NonStop systems in different maintenance LANs
- Ability for a single NonStop system to be configured into multiple managed clusters
- Export of data from all displayed tables to CSV files
- Automatic export of configuration from one CMS to another
- Support of 64-bit Windows and Linux CMSs
- Support of VMWare ESX CMSs
- Many usability enhancements

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NonStop Performance Essentials
Real-time performance monitoring

- Plug-in to HP NonStop Cluster Essentials
- Integrated view to monitor real-time performance issues across a cluster of NonStop and Linux systems
- Drill-down to discover performance bottlenecks
- Performance trend displays
- Alert notifications based on defined thresholds
- Support of CLIM and CIP (Cluster I/O Protocols) performance monitoring
- All communication between CMS and managed systems secure and all data encrypted

Support of NonStop BladeSystems, NS-Series servers and S-Series servers
Support of ProLiant Redhat Linux BladeSystems and rack-mount servers
NonStop Performance Essentials

Future enhancements

- Enhancements in alerting configuration
- Export of data from all displayed tables to CSV files
- Support of more CLIM statistics
- Installation improvements
- Support of 64-bit Windows and Linux CMSs
- Support of VMWare ESX CMSs

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NonStop I/O Essentials

Virtualized CIP management tasks

Support of NonStop BladeSystems and NS-Series servers

- Virtualized configuration and control of all CIP management tasks for multiple CLIMs
- Ability to perform all CIP management tasks without knowing the syntax of NonStop or Linux commands
- Pre-defined management tasks shipped out-of-box to configure and control all aspects of CIP
- Automation of CLIM provisioning
- Easy adoption of IPSec and other CLIM capabilities
- All communication between CMS and managed systems secure and all data encrypted
- Integration with HP NonStop Cluster Essentials to enable CIP management across NonStop clusters

Version 1.2.0 available now with support of Linux CMS and new tasks for storage encryption and Telco INS subsystem
NonStop I/O Essentials

Future enhancements

- Support of new CIP functionality
- Support of 64-bit Windows and Linux CMSs
- Support of VMWare ESX CMSs

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NonStop Software Essentials
Software management modernization

NonStop Cluster Essentials
NonStop Performance Essentials
NonStop I/O Essentials

Support of NonStop BladeSystems, NS-Series servers and S-Series servers

- Integrated software management application to plan, configure, and install NonStop software packages
- Inventory and history of installed software
- Support of HP, third party and customer software
- All functionality of DSM/SCM with better and easier user interfaces over time
- Uses the same DSM/SCM server as used by the DSM/SCM Planner Interface, thus preserving all existing software packages

First release available now replacing the most commonly used DSM/SCM Planner Interface functions

Ability to be installed via NonStop Software Essentials is one of the criteria for ISVs to get ‘CI Ready’ certification.
NonStop Software Essentials

Benefits

- No product charge
- Ability to invoke from any workstation with a web browser, without installing a client application
- Enhanced security
  - All communication between CMS and managed systems secure and all data encrypted
  - Access to all features controlled using NonStop and DSM/SCM security
  - User credentials periodically re-authenticated
- Collection and display of unified request status and EMS events across multiple NonStop systems for a request spanning across multiple NonStop systems
- Enhanced software audit via a simple one-step report to verify that the software installed on multiple systems is as intended to be installed
NonStop Software Essentials

Future enhancements

- Replacement of all DSM/SCM Planner Interface functions
- Replacement of most DSM/SCM Target and Maintenance Interface functions
- Host and target system configuration management support
- DSM/SCM user management
- Product and user group support
- Cloning support
- Support of Linux CMSs
- Support of 64-bit CMSs
- Support of VMWare ESX CMSs

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NONSTOP SUPPORT IN OTHER HP SIM-BASED PRODUCTS

Power management and remote support
HP Insight Control Power Management

Monitor and manage power and temperature

- Visualization of the layout of devices in racks and data center floors – summarizing temperature and power consumption
- Monitoring and management of power capacity and utilization for blades, c-class enclosures and power delivery devices for a data center
- Monitoring of inlet air temperature and 24-hour peak temperature for blades and c-class enclosures for a data center
- Alerting on potential errors, lack of redundancy and configuration anomalies
- Ability to define and execute rules for responding to environmental emergencies and other events requiring changes in data center power usage
- Ability to group systems logically and physically using native SIM collections and views grouping capabilities
# NonStop support in HP Insight Control Power Management

## Available now

- Monitoring of power utilization for HP Integrity NonStop BladeSystems – per blade, per c-Class enclosure, or per NonStop BladeSystem
- Monitoring of inlet air temperature and 24-hour peak temperature for HP Integrity NonStop BladeSystems – per blade, per c-class enclosure, or per NonStop BladeSystem

## Future enhancements

- Integration of HP Integrity NonStop BladeSystems and HP Integrity NonStop NS-series servers in Data Center Power Control providing the capability for controlled shut down of NonStop systems for power conservation or in the disaster situations
- Monitoring of CPU utilization in the same display as the power utilization for blades in HP Integrity NonStop BladeSystems
- Control of power regulation management to run the blades in HP Integrity NonStop BladeSystems in different power efficiency modes based on customer-specific workloads, including the support of dynamic power savings mode

HP Insight Control Power Management 6.3 shipped free-of-charge with NSC DVD suite

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ALERT

MODEM-BASED REMOTE SUPPORT GOING AWAY SOON

NONSTOP CUSTOMERS NEED TO MIGRATE TO HP INSIGHT REMOTE SUPPORT ADVANCED

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HP Insight Remote Support Advanced

HP’s strategic remote support solution

- Proactive, web-based, remote monitoring and diagnostic tool to manage systems and devices
- Real-time monitoring of hardware events and automated notification to HP support center
- Remote troubleshooting and repair capabilities
- Internet connectivity to HP support center
- Quick and secure connection
- Support of all HP platforms

Available at no extra cost as part of warranty, HP Care Pack Service or contractual support agreement with HP

New version A05.60 with performance and scalability improvements available now

Supported for NonStop BladeSystems, NonStop NS-Series servers and NonStop S-Series servers
Operations Management Bundle
Manage NonStop using a bundle of integrated products

Serviceability products
- OSM
- Onboard Administrator
- iLO

HP SIM-based products
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- Service Management Center
- Universal CMDB
- OVNPM
- OVNPM
- NonStop Tivoli Adapter

Other manageability products
- RPM
- TimeSync
- Nagios
Operations Management Bundle

- Browser-based with dashboard view
- Performance monitoring (e.g., CPU and process activity, TMF transactions, disk I/O rate, network load) and EMS event monitoring
- Multiple neighborhoods and residents
- Optional Plug-ins for Pathway, Event and Storage Analyzers

- Mobile NonStop management
- Remote NonStop monitoring and control (e.g., CPU busy, EMS events, TACL access)
- Verified with iPhone, Palm, BlackBerry, Windows phone and Google phone

- Availability and performance monitoring of CPU, disks, files, memory, processes, RDF, TMF, X.25, CIP, Telserv, applications, etc.
- Ability to perform automated actions
- Integration with HP SIM and HP Operations Manager
- Optional Plug-ins for ASAP Extension and ASAP Hybrid Extension for Linux

25% discount off the total price of individual products
Web ViewPoint recent and future enhancements

### Recent enhancements
- Event Viewer enhancements
- Measure data retrieval improvements
- PC memory management improvements
- Support of Windows 7
- Support of Internet Explorer 8

### Future enhancements
- Event Viewer enhancements
- Support of IPv6 network
- Support of 64-bit Windows
- Support of Internet Explorer 9

### New Web ViewPoint Plug-ins

#### Event Analyzer
- Captures, analyzes, displays and tracks historical EMS activity
- Allows defining application groups using a combination of owner and/or subsystem, which can be selected for trending and reporting
- Tracks total, critical and actionable events, and time taken to acknowledge or take actions
- Event summaries stored by hour, day and month and presented in a grid format, with drill drilldown to event details
- Supports the definition and configuration of threshold values to trigger EMS events for Web Viewpoint alert notification

#### Storage Analyzer
- Tracks, analyzes and manages disk and file storage resources and activity
- Monitoring of disk and file capacity, disk and file fragmentation, and corrupted or unused/old files
- File security, size, and ownership audit
- Trending and projection on most disk and file metrics
- Virtual to physical storage relationship management and monitoring
- Customizable alert settings
- Notification via E-mail, SMS or forwarding to Enterprise Management applications (e.g., HP Operations Manager)

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ASAP recent and future enhancements

Recent enhancements

- Complex goals to provide enhanced goal capabilities
- Escalating goals to allow setting multiple goals on the same attribute
- Combine multiple simplex goals into a Boolean goal providing a single alert, event or action
- Support of Windows 7 and Windows Server 2008

Future enhancements

- Support of EMS entity to allow goals and actions on any NonStop EMS event
- Support of IPv6 network
- Support of 64-bit Windows

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Performance Management Bundle
Manage NonStop using off-platform performance analysis

Serviceability products
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- Universal CMDB
- OVNM
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Other manageability products
- RPM
- TimeSync
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### Performance Management Bundle

#### Workstation-based products

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Database</td>
<td>Microsoft Access database of TPDC data</td>
</tr>
<tr>
<td>Data Browser</td>
<td>Browsing and reporting of SQL Database</td>
</tr>
<tr>
<td>NPR</td>
<td>Graphical audits of SQL Database</td>
</tr>
<tr>
<td>DiskPro</td>
<td>Graphical analysis of disks and files</td>
</tr>
<tr>
<td>SPA</td>
<td>Performance analysis and what-if scenarios</td>
</tr>
<tr>
<td>Pathway View</td>
<td>Pathway management</td>
</tr>
</tbody>
</table>

#### NonStop-based products

<table>
<thead>
<tr>
<th>Product</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GPA</td>
<td>Performance tuning (CPUs, cache analysis, etc.)</td>
</tr>
<tr>
<td>Viewsys</td>
<td>Terminal-based real-time performance analysis</td>
</tr>
<tr>
<td>TPDC</td>
<td>Data collection facility for SQL Database</td>
</tr>
<tr>
<td>Measure</td>
<td>Basic performance data collection</td>
</tr>
</tbody>
</table>

- New product NPR (NonStop Performance Reporter) including over 50 different custom reports and charts
- Significant enhancements in all products
HP BTO-based products
Transform and optimize your NonStop business

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HP Business Technology Optimization (BTO)
Bridges the gap between IT and the lines of business
Bridges the gaps between functional IT silos

NonStop support in most BTO Centers
Many customers using BTO products in NonStop environment
# HP BTO software support of NonStop

<table>
<thead>
<tr>
<th>Center</th>
<th>Products supported for NonStop</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOA Center</td>
<td>Based on customer demand</td>
</tr>
<tr>
<td>Application Lifecycle Management Center</td>
<td>Quality Center Software (TestDirector), Business Process Testing, Test Data Management, Requirements Management Module, Sprinter</td>
</tr>
<tr>
<td>Performance Center</td>
<td>LoadRunner, Performance Center Software, Diagnostics (coming soon)</td>
</tr>
<tr>
<td>Application Security Center</td>
<td>Based on customer demand</td>
</tr>
<tr>
<td>Business Availability Center</td>
<td>TransactionVision, Business Process Insight, Universal CMDB, Discovery and Dependency Mapping, Business Availability Center Software for Composite Application Management (coming soon)</td>
</tr>
<tr>
<td>Operations Center</td>
<td>Operations Manager, Operations Manager i, Reporter, Operations Manager Dependency Mapping Automation, SiteScope</td>
</tr>
<tr>
<td>Data Center Automation Center</td>
<td>Operations Orchestration, Storage Essentials, Release Control</td>
</tr>
<tr>
<td>Client Automation Center</td>
<td>Client Automation Standard, Client Automation Enterprise</td>
</tr>
<tr>
<td>Service Management Center</td>
<td>Service Manager, Discovery and Dependency Mapping Inventory</td>
</tr>
</tbody>
</table>

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**HP Operations Manager and HP Operations Manager i support of NonStop**

<table>
<thead>
<tr>
<th>HP Operations Agent for NonStop (OVNM)</th>
<th>HP Performance Agent for NonStop (OVNPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object monitoring and event processing</strong></td>
<td><strong>Real-time performance monitoring</strong></td>
</tr>
<tr>
<td>- Automatically discovers NonStop objects</td>
<td>- Monitors business applications</td>
</tr>
<tr>
<td>- Detects infrastructure and application failures and problems</td>
<td>- Real time graphs and drill downs</td>
</tr>
<tr>
<td>- Provides customized threshold settings</td>
<td>- Web-based, with optional Windows-based data analysis</td>
</tr>
<tr>
<td>- Supports automated actions and event escalations upon violations</td>
<td>- Analyzes historical trends for capacity planning</td>
</tr>
<tr>
<td>- Support ACI Base24, Telco (HLR, INS) and MQ Series</td>
<td></td>
</tr>
<tr>
<td>- Interface with HP Operations Manager and HP Operations Manager i</td>
<td></td>
</tr>
<tr>
<td>- Integrate with IBM Tivoli, Netcool, BMC Patrol or any other SNMP-based enterprise management application</td>
<td></td>
</tr>
<tr>
<td>- Support homogenous NonStop environments as well as larger, cross-platform enterprise environments</td>
<td></td>
</tr>
</tbody>
</table>

**NonStop Tivoli Adapter**
- Optional adapter for NonStop event monitoring through Tivoli
- Event details and types mapped to corresponding Tivoli event space and severity slots
OVNM and OVNPM recent and future enhancements

**Recent enhancements**
- Support of HP Integrity NonStop NB54000c
- Support of CLIM monitoring
- Support of HP Operations Version 9 for Windows, Linux and HP-UX
- Support of SNMP Adapter for Red Hat Enterprise Linux ES

**Future enhancements**
- Support of IPv6 addresses
- Data Analyzer support of accessing OVNM/OVNPM data from SQL/MX
- SNMP Adapter support of SNMPv3
- Installation enhancements

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Other manageability products

Manage NonStop using tool of your choice

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# RealTime Process Monitor (RPM)

## Features

- **Low-cost** point-product that provides ultra-fast, real-time, discovery and display of busiest CPU, processes and network nodes
- Supports many device types, including TTY, VT100, ANSI, T6530, disk and process
- Supports Guardian and OSS file/path names
- User-defined thresholds to provide color-encoded displays
- Fast easy setup
- Does not require Measure

## Recent enhancements

- Many new “”By” item discovery, sorting, and selection criteria, including By… CPU Busy, Inputs, I/Os, Outputs, Memory use, Nodes, Page Faults, Process File Segment, Queue Length, etc.
- Real-time monitoring of 4000+ CPUs with 10-100 times reduction in CPU and message overhead
- Simultaneous views of both short-term and long-term CPU and process usage statistics.
- New Display options
- New History, Execute and Fix commands
- Command enhancements

## Future enhancements

- Support of new “By” items
- Support of new data items

This is a rolling (up to three year) Statement of Direction and is subject to change without notice.
**Features**

- Synchronizes time among NonStop, Linux and Windows systems
- Operates as a client, as a server, or both simultaneously
- Accurate from .000001 to .01 seconds

**Server mode**

- Acts as a time source for a remote system running TimeSync in client mode, or NTP/SNTP client
- Allows systems that do not keep time in GMT/UTC to act as time sources via configurable offset

**Client mode**

- Obtains time from remote time sources/servers (running TimeSync or NTP/SNTP server), and updates local time accordingly
- Never allows time to move backward unless configured to do so
- Multi-source mode to average time from multiple sources
- Provides configurable offset for system clocks not kept in GMT/UTC

**Recent enhancements**

- Ability to configure specific times for sync operations
- New command to initiate immediate sync
- Option to specify which local IP interface should be used by TimeSync
- Support of Windows 7 and Windows Server 2008
- Improved compatibility with older NTP clients
Manage NonStop using open-source manageability application
NonStop manageable by open-source Nagios

Linux/Windows

Nagios
Open source

NonStop subsystems and events monitored in Nagios

Successfully implemented at customer environments

No NonStop-specific knowledge required to access any NonStop data from Linux or Windows
WHY HP?

Create an Instant-On
Enterprise using NonStop
NonStop management in an Instant-On Enterprise

**Business Technology Optimization (BTO) Software**

**STRATEGY**
- CIO Office
  - Project & Portfolio Management Center
- CTO Office
  - SOA Center

**APPLICATIONS**
- Application Lifecycle Management Center
- Performance Center
- Application Security Center

**OPERATIONS**
- Business Service Management
- Business Service Automation
- Client Automation Center
- Data Center Automation Center

**IT Service Management**
- Universal CMDB

**CORE MANAGEMENT SERVICES**
- Discovery, Inventory Management, Event Notification, Reporting, Security

**SUPPORTS**
- **Insight Dynamics**
- **Insight Control**
- **Insight Remote Support Advanced**
- **NonStop Essentials**

**HP Systems Insight Manager**

**Physical and virtual platforms**

**HP NonStop**

**HP UX**
CALL TO ACTION

See the NonStop management in an Instant-On Enterprise in action in NonStop manageability booth

Attend session 3101 (Using HP's BTO portfolio to optimize NonStop business technology) on Friday at 9:30 AM in Titian 2205

Read datasheets and other reference material on NonStop manageability at [http://www.hp.com/go/nonstop/operationsmanagement](http://www.hp.com/go/nonstop/operationsmanagement)

Watch videos on how to manage NonStop using NonStop Essentials products at [http://www.hp.com/go/nonstop/videos](http://www.hp.com/go/nonstop/videos)

Check out articles on NonStop manageability in an Instant-On Enterprise in the Connection magazine

Contact NonStop Manageability Product Manager and Architect at geroge.haskell@hp.com and vinay.gupta@hp.com
THANK YOU
THE INSTANT-ON ENTERPRISE IS HERE.