

H06.04 Release Version Update Compendium

Abstract

This compendium provides a summary for the products that have major changes in the H06.04 release version update (RVU), including the products' new features, migration issues, and fallback considerations. The compendium is written for system managers or anyone who needs to understand how migrating to H06.04 affects installation, configuration, operations, system management, maintenance, applications, networks, and databases.

Product Version

N.A.

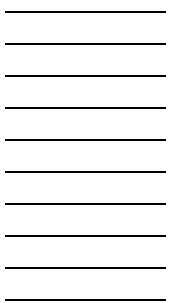
Supported Release Version Updates (RVUs)

This publication supports the H06.04 RVU only.

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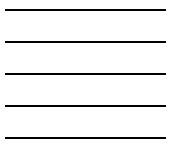
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What's New in This Manual

Manual Information

Abstract

This compendium provides a summary for the products that have major changes in the H06.04 release version update (RVU), including the products' new features, migration issues, and fallback considerations. The compendium is written for system managers or anyone who needs to understand how migrating to H06.04 affects installation, configuration, operations, system management, maintenance, applications, networks, and databases.

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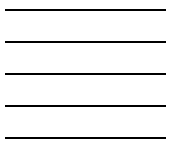
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New and Changed Information

This is a new manual.



About This Manual

This compendium provides categorized information for new features, migration issues, and fallback considerations for H06.04. It also includes references and sources for migration planning.

Who Should Use This Guide?

This compendium is written for system managers or anyone who needs to understand how migrating to H06.04 affects installation, configuration, operations, system management, maintenance, applications, networks, and databases.

Organization

Section	Description
Section 1, H06.04 Overview	An overview listing the products that have major changes
Section 2, Operating System Section 3, Application Development Products Section 4, Database and Transaction Processing Products Section 5, Installation and Configuration Products Section 6, Manageability Products Section 7, Hardware Products Section 8, Networking Products	Categorized product information that summarizes: <ul style="list-style-type: none">● New features● Migration issues (if available)● Fallback considerations (if available)

Related Manuals

- *H06.04 Software Installation and Upgrade Guide*
Provides procedures for upgrading to the H06.04 RVU. Instructions include installing the H06.04 SUT and other related installation tasks.
- *H-Series Application Migration Guide*
Describes changes required to migrate a program from a G-series system to an H-series system.

- *NonStop NS-Series Planning Guide*

Describes the HP Integrity NonStop™ NS-series hardware and the ServerNet system area network (SAN) and how to plan and configure the site in preparation for installation of the system.

- *NonStop NS-Series Site Preparation Guide*

Provides the physical, electrical, and environmental specifications for use by HP professional service providers for site preparation, HP field support personnel, and by customer consultants, engineers, and contractors in the design and construction of the installation site for HP Integrity NonStop NS-series servers.

1 H06.04 Overview

This section provides an overview to the H06.04 RVU.

NonStop Servers Supported

H06.04 supports the HP Integrity NonStop NS16000 server.

Major New Features

[Table 1-1](#) summarizes the main changes in H06.04. For descriptions of new features, see the appropriate sections.

Table 1-1. Summary of the H06.04 RVU

Sections and Categories	Major New Features	Migration Alerts	Fallback Alerts
Section 2, Operating System	No new features.		
Section 3, Application Development Products	<ul style="list-style-type: none">● Native Inspect● Visual Inspect		
Section 4, Database and Transaction Processing Products	No new features.		
Section 5, Installation and Configuration Products	<ul style="list-style-type: none">● SCF		
Section 6, Manageability Products	<ul style="list-style-type: none">● Measure● OSM● VHS		
Section 7, Hardware Products	<ul style="list-style-type: none">● Integrity NonStop NS-Series Carrier Grade Servers● Mid-Range Tape Library		
Section 8, Networking Products	No new features.		

Preparation, Planning, and Migration

- Before you begin migrating applications, contact your HP representative to analyze your applications and identify specific modules and program components that require changes for migration to an H-series TNS/E system.
- For the physical, electrical, and environmental specifications used by HP professional service providers for site preparation, see the *NonStop NS-Series Site Preparation Guide* in the HP NonStop Technical Library (NTL).
- For an H-series overview, see Section 1 of the *H06.03 Release Version Update Compendium*, which includes these topics:
 - NonStop advanced architecture
 - Operational differences between systems running H-series and G-series RVUs
 - Application differences between the H-series and G-series RVUs
 - Networking differences between the H-series and G-series RVUs
 - SUT-based products migrating to H-series RVUs
 - Independent Products (IPs) that become SUT products on H-series RVUs
- For descriptions of Integrity NonStop NS-series hardware and the ServerNet SAN and how to plan and configure the site in preparation for installation of the system, see the *NonStop NS-Series Planning Guide*.
- For changes in H-series installation, see the *H06.04 Software Installation and Upgrade Guide*.
- For the changes that are required to migrate a program from a G-series system to an H-series system, see the *H-Series Application Migration Guide*, which covers these migration paths:
 - Migrating G-series TNS programs to the TNS environment on an H-series system
 - Migrating G-series (TNS/R) native programs to the TNS/E native environment on an H-series system
- For compatibility and Interoperability between the Integrity NonStop NS-series server and the NonStop S-series NonStop server, specific software product revisions (SPRs) are required. See the H-series overview page in the Interactive Upgrade Guide 2.

2 Operating System

The H06.04 RVU contains no operating system changes.

3

Application Development Products

The H06.04 RVU contains new features for these application development products:

- [Native Inspect](#)
- [Visual Inspect](#)

Native Inspect

Native Inspect for H06.04 has these changes:

- The catch command is supported (used for setting stop or abend process termination breakpoints).
- The kill command now supports closing snapshot files as well as processes.

Visual Inspect

H06.04 Visual Inspect includes the following functionality:

- ICode support means that you can view instructions interleaved with source code on source views.
- You can more easily configure Visual Inspect in a firewall situation by specifying a range of TCP port numbers for the client and for the server.
- Maximum C String Length and Format C String Length are now supported as a preference and a command, respectively.
- SVRead and SVWrite are now DLLs, available for writing tools that create snapshot (saveabend) files.
- Performance is improved for conditional data breakpoints.

4

Database and Transaction Processing Products

The H06.04 RVU contains no new features for database and transaction processing products.

5

Installation and Configuration Products

The H06.04 RVU contains new features for this installation and configuration product:

- [SCF](#)

SCF

H06.04 adds a new set of functionality to the Subsystem Control Facility (SCF) to assist in configuring and monitoring Fibre Channel devices connected to the Integrity NonStop NS-series system:

- The STATS SAC and PROBE SAC commands are new.
- The STATUS SAC command has new attributes.

For information, see the *SCF Reference Manual for the Storage Subsystem*.

6

Manageability Products

The H06.04 RVU contains new features for these manageability products:

- [Measure](#)
- [OSM](#)
- [VHS](#)

Measure

A new interface, `MEAS_READACTIVE_MANY_`, provides a message-less interface to extract active Measure counter records in a single call. This interface is part of `INITDLL`.

OSM

The HP NonStop Open System Management (OSM) Interface server T0682 H02 AAM (for H06.04) provides:

- Additional environmental monitoring and control for the HP NonStop Blade Element and logical synchronization unit (LSU) components, including OSM:
 - Display of Blade Element power supply objects
 - Display of new attributes and alarms for LSU logic board, optics adapter, and power supplies
 - Action to save an inventory file for Blade Element components
- System resource terminology changes in the GUI:
 - The slice object is now called NonStop Blade Element.
 - The processor complex object is now called the HP NonStop Blade Complex.
 - The disk drive enclosure object is now called the Fibre Channel disk module (FCDM).
- Support for data collection services and system inventory files on H-series RVUs
- Support for mid-range tape libraries on H-series RVUs
- Support for Telco systems on H-series RVUs
- Monitoring for correctable memory errors (CMEs)
- Support for Secure Sockets Layer (SSL), which provides a secure connection between the OSM server and OSM Service Connection or OSM Notification Director. To use SSL, you must also install OSM Notification Director T0632AAN or later, and SSL must be enabled in OSM. For information on enabling SSL, see the *OSM Migration Guide*.

- Support for using HP Systems Insight Manager (SIM) on the NonStop platform. HP SIM, via Web-Based Enterprise Management (WBEM) provided by OSM, is capable of discovering NonStop systems, displaying and forwarding alarms generated by OSM, and collecting NonStop system and device data. To use HP SIM to help manage NonStop systems, you must have SSL enabled in OSM (and the requisite OSM Notification Director T0632AAN or later). For information about using HP SIM on NonStop platforms, select Support and Service > Service Information > *HP SIM for NonStop* in NTL.

VHS

In H06.04, Virtual Hometerm Subsystem (VHS) adds support for Native Inspect. If a native application process that uses VHS with PARAM, AUTOMATIC-INSPECT-PROCESSING set to ON goes to debug, VHS by default creates a saveabend file and stops the application process. This enhancement provides the flexibility to configure the commands given to a native application's Inspect prompt.

To take advantage of this enhancement, set PARAM, AUTOMATIC-INSPECT-PROCESSING to ON in the startup scripts of VHS before running the native application.

7 Hardware Products

The H06.04 RVU contains new features for these hardware products:

- [Integrity NonStop NS-Series Carrier Grade Servers](#)
- [Mid-Range Tape Library](#)

Integrity NonStop NS-Series Carrier Grade Servers

The HP Integrity NonStop NS16000 Carrier Grade server is now available. The Integrity NonStop NS-series Carrier Grade servers are modified versions of the commercial Integrity NonStop NS-series servers. They are high-performance systems designed for the worldwide Telco industry Central Office (CO) environment. They are built in accordance with the Bellcore Network Equipment-Building System (NEBS) requirement (zone 4) for typical Central Offices.

Integrity NonStop NS-series Carrier Grade servers differ from commercial Integrity NonStop NS-series servers in several ways. Integrity NonStop NS-series Carrier Grade servers:

- Support duplex (dual-modular redundancy (DMR)) configurations but not triplex (triple-modular redundancy (TMR)) configurations.
- Support a maximum of three NonStop Blade Element enclosures in a Carrier Grade cabinet.
- Support NonStop S-series I/O enclosures installed in Integrity NonStop NS-series cabinets or in NonStop S-series CO I/O cabinets.
- Do not support the I/O adapter module (IOAM) enclosure or IOAM-connected ServerNet adapters and peripherals.
- Support the ServerNet adapters and peripherals supported for NonStop S-series CO servers only.
- Require two Ethernet ports in each I/O enclosure for connection to the system's maintenance LAN. Ethernet ports on IOMF 2 FRUs must NOT be used for these connections.
- Do not support an in-cabinet UPS or ERM.
- Incorporate separate grounding rails in addition to the mounting rails in the cabinet.
- Include hardware features that meet the needs of the telecommunications industry.

These ServerNet adapters can be installed in NonStop S-series CO server I/O enclosures that are part of Integrity NonStop NS-series Carrier Grade servers:

- Ethernet 4 ServerNet adapter
- Fast Ethernet ServerNet adapter
- Gigabit Ethernet ServerNet adapter, copper

- Gigabit Ethernet ServerNet adapter, fiber
- Common Communication ServerNet adapter

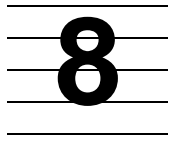
Integrity NonStop NS-series Carrier Grade servers support all disk drives that can be installed in NonStop S-series CO I/O enclosures.

Integrity NonStop NS-series Carrier Grade servers support the same peripheral devices supported for the NonStop S-series Central Office servers.

Mid-Range Tape Library

H06.04 supports the mid-range tape library on Integrity NonStop NS-series systems. The mid-range tape library has a 50 to 575 media slot (cartridge) capacity. It functions in the same way as the CTL700 (CTL700M) library but with a smaller media cartridge count, scalable capacity, and a lower cost. The mid-range tape library requires the new M8504 Linear Tape Open (LTO) tape drive, which is the same as the existing M8503 LTO tape drive, except for the drive mounting hardware used in the mid-range tape library.

For details, see the *Mid-Range Library Media Manager Installation and User's Guide*.



Networking Products

The H06.04 RVU contains no new features for networking products.

