

# NonStop Computing Update: October 2004

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Welcome to the October 2004 edition of the *NonStop Computing Update*, a newsletter with information on HP NonStop servers. This newsletter provides brief synopses, with hotlinks for additional information where appropriate.

To subscribe, or for comments or feedback, please send e-mail to [Scott Lerner](#). Your comments, questions, and suggestions are always welcome

## **NonStop server news**

### **HP patents Zero Latency Enterprise (ZLE) technology**

HP has been granted [U.S. patent 6,757,689](#), entitled “Enabling a Zero Latency Enterprise,” crediting Greg Battas and Bahman Zargham. The ZLE framework keeps information from myriad enterprise systems refreshed, ready for consolidation, and available for real-time deployment in decision-making, customer relationship management (CRM), inventory management, and marketing campaigns. ZLE technology is all about the competitive advantage it provides to organizations. Quoting from the patent: “Methods are provided for enabling an enterprise to run as a zero latency enterprise (ZLE) and for running an enterprise as a ZLE. Such methods allow the enterprise to integrate its services, applications and data in real time. Namely, an enterprise equipped to run as a ZLE is capable of integrating, in real time, its enterprisewide data, applications, business transactions, operations and values. Consequently, an enterprise conducting its business as a ZLE exhibits superior management of its resources, operations and customer care.”

## **HP announces NonStop server support for StorageWorks XP**

NonStop server storage options have been [extended to include](#) the use of HP Enterprise Storage Systems. NonStop servers can now connect to the HP StorageWorks XP disk array family and to StorageWorks SAN, allowing users with investments in multiple server product lines to enjoy the economies of scale offered through the common sharing of centralized data storage. NonStop servers can now be added to data centers to economically deliver unique levels of data integrity, continuous availability, and remote business continuity for the most critical applications, thus leveraging storage resources. Users can combine unique features of NonStop servers with the management and flexibility of HP Enterprise Storage Systems. In addition, NonStop servers will add new levels of data integrity and remote business continuity to applications using XP storage.

## **NonStop SQL/MX Release 2.0 database MX tables package now available**

NonStop [SQL/MX Release 2.0](#) database MX tables package is now available for order as a Controlled Availability product. As announced in the August edition of this newsletter, NonStop SQL/MX Release 2.0 database has two separate product packages that customers can choose to deploy: The first package, NonStop SQL/MX Release 2.0 database MP tables package, was made generally available in June 2004 with Release Version Update (RVU) G06.23 of the NonStop Kernel operating system. NonStop SQL/MX Release 2.0 database MX tables package is now available as a Controlled Availability product. Another Controlled Availability upgrade package that adds MX tables functionality to the release 2.0 MP tables package is also available.

## **Announcing HP OpenView NonStop Server Performance Management software**

The [HP OpenView suite](#) is a comprehensive business-driven management solution that monitors, controls, reports on, and automates corrective actions for the health of all parts of a managed infrastructure. A new member of this product suite, OpenView NonStop Server Performance Management, is an out-of-the-box solution for seamlessly integrating the management of NonStop servers with OpenView Operations software. This product offers real-time monitoring and trend reporting. It provides comprehensive and robust manageability features along with Web browser support for monitoring critical performance events. It is a highly flexible solution for measuring service-level standards and for planning future business needs. It includes components installed on both the NonStop server and the OpenView Operations management server for Windows® or UNIX® systems. The NonStop server component monitors the status and health of the NonStop server and interfaces with the management server component using TCP/IP. OpenView NonStop Server Performance Management also integrates OpenView Reporter.

## **NonStop Kernel operating system RVU G06.24 now available**

NonStop Kernel operating system RVU G06.24 is a General Availability product that contains defect repair and support for the following new hardware products:

- NonStop S88000 and S78000 servers
- CT9841FC-1 Fibre Channel Tape Drive
- Enterprise Storage Systems for NonStop servers

- I/O Adapter Module Enclosure
- Ethernet ServerNet Adapter
- Fibre Channel ServerNet Adapter

In addition, G06.24 includes enhancements to the following products:

- Backup/Restore 2, providing Open System Services (OSS) functionality
- HP Open Systems Management (OSM) interface
- NonStop Distributed Computing Environment (DCE)
- Safeguard V2 Release 3.0
- Standard POSIX threads
- NonStop Transaction Management Facility (NonStop TMF)—Large Audit Trail TMF extension
- WAN Wizard Pro for M8800 Multiport
- NonStop SQL/MP
- Parallel Library TCP/IP and SPI

G06.24 technical publications and release documentation will be available using the NonStop Technical Library (NTL). For further information, see [Support Note S04108](#).

### **NonStop System Console Update 3 now available**

The NonStop System Console (NSC) Installer CD (S7X-SWV1) Update 3 is now available to order. This version of the console CD is compatible with the Windows 2000 Professional and Windows XP operating systems. The Open System Management (OSM) interface is installed as the default manageability product and requires 256 megabytes of memory. Windows XP Professional is the default operating system. The updated OSM in this release of the NSC Installer CD contains defect repair and support for the following new products:

- I/O Adapter Module enclosure and components
- Enterprise Storage Systems
- Ethernet ServerNet Adapter
- NonStop S78000 and S88000 processor types
- CT9841FC-x Fibre Channel Tape Drives
- Fibre Channel ServerNet Adapter

For more detailed information on new features of the OSM, and for ordering information for the NSC Installer CD, see [Support Note S04109](#).

### **G06.24 publications now available in the NonStop Technical Library**

Publications for RVU G06.24 are now available in the NonStop Technical Library (NTL). NTL media is shipped to customers with NonStop S-series servers under HP support contracts and to customers that have purchased NTL subscriptions. For more information on NTL hardware and software requirements, purchasing NTL subscription and user licenses, changing subscription address, and other topics, click

the [Frequently Asked Questions](#).

### **NonStop JDBC Type 4 driver now available**

The NonStop JDBC Type 4 driver is a high-performing type 4 client that provides remote access from heterogeneous Java clients to NonStop SQL/MX Release 2.0 MP tables. The driver is JDBC 3.0 compliant and will work with platforms that support JDK 1.4.1 or later, and can be deployed in a number of different two-tier and multi-tier configurations. This type 4 driver is integrated with the features of the NonStop SQL/MX database server and provides a highly available and scalable connectivity solution to the NonStop platform. This type 4 driver also supports features such as statement pooling, the ability to call a stored procedure written in the Java language, the use of embedded SQL in Java, and thread-safe nonblocking behavior. The NonStop JDBC/MX Type 4 driver has been qualified to run on Windows 2000, Windows XP, Sun Solaris 8.0, HP-UX 11i v2, SUSE LINUX Enterprise Server 8, and Red Hat Enterprise Linux 2.1 platforms. NonStop JDBC/MX Type 4 driver requires NonStop Kernel G06.23 or later G-series RVUs and ODBC/MX (T7969G10, T7970G10) also known as SQL/MX Connectivity Services (MXCS) running on the NonStop server. For further information, see [Support Note S04094](#).

### **NonStop AutoSYNC Version 1.0 Update 3 software now available**

NonStop AutoSYNC Version 1.0 Update 3 software (T2713AAC) is now available to order as an Independent Product. This software product revision (SPR) contains defect repair and introduces minor enhancements:

- New SUBVOLPURGE synchronization and SYNCFILESET option
- OSS support for REPORT function
- New commands: STATUS SYNCFILESET and STATUS BATCHID
- STATUS [ASY]SYNC new FSETID and BATCHID options
- STATUS MONITOR display enhancement
- REPORT summary display enhancement
- STATUS [ASY]SYNC display enhancement
- Automatic user error correction when destination is specified as “\node.\$\*.\*.\*”

For further details, see [Support Note S04113](#).

### **HP Web services suite of products rolls out**

HP has [announced](#) the availability of a suite of companion Web services products that are being released together. The new suite of products includes

- NonStop SOAP Version 3 software (SX21v3)
- NonStop SOAP Client software (SX24v1)
- NonStop Fast XML Parser software (SX25v1)

NonStop SOAP Version 3 is a new version of NonStop SOAP (for Pathway) software that provides

improved management for customers that want to Web enable their Pathway applications using the popular Simple Object Access Protocol (SOAP) standard. NonStop SOAP Client software allows for easy development of SOAP-based client applications on the NonStop platform. NonStop Fast XML Parser software provides higher-performance parsing of XML documents or messages.

### **Informative program coming soon: NonStop Customer Conference Call**

Stay tuned for an exciting opportunity to speak directly with senior executives, developers, and product managers at NonStop Enterprise Division. The current plan is to offer a customer conference call once per month from 8:00 to 9:00 a.m. Pacific U.S. time on the first Thursday of each month. Most calls will be targeted at technical specialists, with one or more calls per year targeted at organizations' management. The calls will follow a presentation and question format and will use toll-free phone numbers for audio and the HP Virtual Classroom (HPVC) for slide display. Calls will be recorded and archived in the customer-accessible portion of NonStop University. The topics will be relevant and informative, as evidenced by the current line-up for the first four calls:

- November 4: NonStop Software Roadmap (Pauline Nist)
- December 2: NonStop SQL/MX Release 2 MX Tables (Mala Chandra)
- January 6, 2005: Enterprise Storage Systems (Nomi Trapnell)
- February 3: BEA Update (Jim Peters)

More information will be released—in the November issue of *NonStop Computing Update* and elsewhere—as the [program](#) moves forward.

## **Success stories**

### **HP proves the power and ROI of wireless WAN with Sprint**

Just like many of its customers, HP has thousands of customer support engineers whose productivity during on-site service calls depends on rapid access to public and private information sources available on the Web and via corporate intranet and e-mail. A [month-long pilot project](#) with nearly 100 HP customer support engineers in the United States, Canada, and Latin America proved the power of wireless WAN and its return on investment. HP engineers using Compaq Evo notebook PCs, Sprint PCS Connection Cards in the United States, and mobile service got on-the-spot access to information they needed to help customers. By giving customer support engineers access to information and parts ordering online, calls to HP service centers and parts departments have declined substantially, says HP Services' Don Thompson, who supervises 20 customer support engineers participating in the pilot. "What used to require a phone call to the service center for product information and a second call to the logistics help desk to locate the required part can now be done online by the customer support engineer. We've gone from two phone calls to zero phone calls."

### **Virtual TapeServer enables Veritas to control NonStop server backups**

A 100-year-old company and a long-standing NonStop customer had previously standardized on Veritas NetBackup at an enterprise level and wanted to integrate its quad-processor NonStop S7600 backup and

restore operations under that system. However, such capability was not native to NonStop servers or to the Veritas product. HP arranged for a two-week evaluation of Virtual TapeServer with 730 gigabytes of internal storage capacity. Virtual TapeServer was configured for enterprise integration with Veritas NetBackup. Testing commenced; the results were so compelling that the company decided to [purchase Virtual TapeServer](#) after just three days of evaluation. It also deployed Virtual TapeServer's data compression feature, after testing demonstrated a 4:1 compression ratio on Transaction Management Facility (TMF) audit trails, and as much as 7:1 compression on other data file types.

### **Gallagher Bassett minimizes risk with TIC Report.Web solution**

[Gallagher Bassett](#) is the largest multiline property and casualty third-party administrator, providing a host of risk management services. The company is installing TIC Report.Web—a secure, efficient, and cost-effective Web-enabled report distribution system—for its monthly workers compensation and liability claims reporting. The solution will provide easy and immediate access to claims information for both clients and employees. Report data may be seamlessly imported into Microsoft® Excel for detailed analysis and dissemination, a functionality that Gallagher Bassett intends to leverage.

## **General news**

### **7-Eleven deploys HP technology in 5,300 U.S. stores**

A September 7 [Computerworld](#) article by Linda Rosencrance reports, “In an effort to support its growing retail operation and improve customer experience in its 5,300 stores nationwide, Dallas-based convenience retailer 7-Eleven Inc. is deploying technology from Hewlett Packard Co. . . . ‘7-Eleven selected approximately 5,000 HP ProLiant servers and other in-store HP infrastructure technology for all of their U.S. locations,’ according to HP spokeswoman Dayna Fried. ‘They have been deploying the technology over the past eight months. HP is also providing ongoing customer support across all HP products, including servers, storage, networking technology and printing devices.’ Fried said the HP technology will help 7-Eleven reduce operating and acquisition costs while increasing efficiency and productivity. The technology, which supports 7-Eleven’s Retail Information System (RIS), allows store operators to use in-store computers to reorder best-selling inventory and remove slow-moving items from store shelves.”

### **HP equipment helps power U.S. political process**

As part of its support for the U.S. political process, HP served as the [official mobile technology provider](#) at both the Democratic National Convention (DNC) in Boston and the Republic National Convention (RNC) in New York. The DNC featured hundreds of HP devices, which dramatically changed the face of communication and connectivity at the convention. Convention staff at the RNC used HP technology, including HP tablet PCs and imaging products, leading up to and during the convention. According to Bill Harris, chief executive officer at the RNC, “The success of a modern-day convention is more dependent than ever on best-of-breed devices and a supplier who understands the demands we place upon them. HP has been a great provider, fulfilling both requirements.”

### **HP wins data center deal with Defense Logistics Agency worth US\$290 million**

A September 13 [Computerworld](#) article by Linda Rosencrance reports, “The Defense Logistics Agency has awarded Hewlett-Packard Co. a 10-year, \$290 million contract to develop an Enterprise Data Center (EDC) program. . . . The EDC program will consolidate approximately 2,300 servers down to 400, [said Mark Philip, program manager for EDC]. Most applications and storage will also be consolidated by the EDC migration, which will be rolled out gradually to avoid disruptions in service. ‘To do that [consolidation] will save a lot of money,’ he said. In addition, the move is expected to allow for more effective implementation of the DLA’s information assurance programs and will expand its disaster recovery and continuity-of-operations programs.”

### **HP among top 100 companies for working mothers**

*Working Mother* magazine has named [HP in its 19th annual list](#) of the 100 best companies for working mothers. The list consists of public and private firms of all sizes that score high in such categories as the number of work/life programs offered, the employee usage of such programs, and the representation of women throughout the company. “An old guard of the new economy, HP knows a thing or two about thinking—and working—outside the cubicle,” *Working Mother* writes. “Many of the computer maker’s 63,000-plus employees use some form of flexible scheduling, including part-time work, job-sharing and telework, in which a staffer is based in a home office.”

### **Partner news**

#### **Gresham Computing releases TOP 4.2**

Gresham Computing is pleased to announce the release of [TOP version 4.2](#), an upgrade to its graphical interface for NonStop servers. This release adds Safeguard and TMF to the subsystems that can be configured, managed, and monitored with TOP. Further support is included for OSS, and numerous changes have been made to the NetBatch interface. Customers can now use their own text editor instead of the built-in editor to view and alter edit files. Any sites that have not tried TOP or evaluated it in the past are encouraged to take advantage of Gresham’s free evaluation program to find out how TOP can make life easier for operations, development, and systems management staff. Existing customers are encouraged to download the upgrade and test out the new functionality.

#### **PULSE relies on GoldenGate for smooth migration and business continuity**

When the board of directors at PULSE made the strategic decision to deploy an in-house processing solution and discontinue the outsourcing of its switching and settlement services, they relied on the GoldenGate transactional data management platform. GoldenGate allowed them to migrate from the old infrastructure to the new without any interruption in service, and continues to assist the new switching infrastructure at PULSE by helping the company ensure full business continuity. For more information on PULSE and its use of GoldenGate, read the [case study](#).

#### **GreenHouse announces new and updated tools**

GreenHouse announces numerous new, enhanced, and updated freeware and shareware products. Besides security and operation related products, the company offers a new set of products designed to protect a NonStop server from denial-of-service attacks. New and updated products include

- The shareware product ListLib, which protects the server from an exhaustive use of FTP processes, using up system resources such as Process Control Blocks
- The freeware product PurgeTMP, which protects the system from an exhaustive use of static temporary disk files

GreenHouse offers a new type of product, called [PayWare](#).

### **comForte adds strong authentication to SecurCS and SecurFTP**

comForte has added [strong authentication](#) using Secure Sockets Layer (SSL) client certificates to its SecurCS and SecurFTP products. Using SSL client authentication, the server-side components can now validate the authenticity of the clients using digital certificates. Working seamlessly with the Microsoft certificate store on the PC, SecurCS and SecurFTP can also be integrated with client-side hardware security modules, such as USB Tokens or smart cards. On the NonStop server, the certificate is verified and can optionally be retrieved by an application using a simple API. SecurCS and SecurFTP are products that encrypt a wide range of TCP/IP-based middleware such as Telnet, FTP, RSC, ODBC, HTTP, and IBM WebSphere MQ. comForte has published an article in the ITUG magazine, The Connection, which explains the concept of SSL certificates in detail. The article can be obtained on request by contacting [comForte](#).

### **TIC and ASG provide wireless management tool for NonStop server access**

[MobileControl Administrator](#) (MCA) from ASG is a complete solution for troubleshooting network and systems problems, providing IT staffs with the ability to access and manage their enterprise systems (running Windows 2000, Windows XP, or Windows NT® operating system) from a Web browser, Wireless Access Protocol (WAP) enabled phone, or wireless personal digital assistant. Now, with joint development between ASG and TIC, MCA enables support staffs to access NonStop server objects (Pathway, EMS, process, and spooler), providing remote diagnostic and resolution capabilities, decreasing downtime, and enhancing productivity and profitability. MCA is part of a hybrid solution, which TIC will be demonstrating at ITUG booth #563.

### **CAIL Connectivity Suite Release 7 now available**

The new [CAIL Connectivity Suite](#) improves information access with NonStop servers by adding important capabilities for security, Web access and services, configuration and deployment options, plus communications extensions including IPv6 support. Further, to continue providing the greatest flexibility for information access while making systems easier to manage and improving the user experience, CAIL continues to include the Plus (ActiveX), Windows, and Java versions in this new release. Also bundled with release 7 are CAIL Studio and CAIL Adapter, which enhance the presentation of information services and better integrate and aggregate information for the user from a browser. For more information, contact CAIL at +1 (905) 940 9000 x2222.

### **TSI and TapeLabs collaborate in NonStop server marketplace**

[Tributary Systems, Inc.](#) (TSI) and [Tape Laboratories, Inc.](#) (TapeLabs) have announced a joint marketing

agreement. Effective immediately and in continued cooperation with HP, TapeLabs will market TSI's broad range of direct-attached tape drives and automation solutions, and TSI will market the TapeLabs Virtual TapeServer in the NonStop server marketplace. With this deal, each organization leverages the other's respective strengths in tape virtualization and direct-attached data storage products. As such, each company will be able to effectively promote a complete, best-of-breed line of backup/restore/archive solutions to NonStop server customers. The purpose of this strategic move is to streamline, simplify, and compress the sales process for NonStop storage products in the marketplace. For more information concerning this announcement, contact Shawn Sabanayagam of TSI at +1 (817) 354 8009 or by e-mail at [ss@tributary.com](mailto:ss@tributary.com). Or contact [Brian Ignatin](#) of TapeLabs at +1 (310) 577 1700.

## User group news

### NonStop Availability Award finalists for 2004 announced

ITUG has just announced the [three finalists](#) in this year's prestigious NonStop Availability Award contest. Winning this annual award is proof to a company's customers and employees that availability matters. In alphabetical order, this year's finalists are Bank-Verlag GmbH, eFunds Corporation, and MasterCard International. This year the NonStop Availability Award has one honorable mention: Electronic Transaction Services Limited. The winner will be chosen from the three finalists and will be announced at ITUG Summit 2004, scheduled for October 3–7 in San Jose, California. .

### Regional User Group updates

ITUG has more than 30 active Regional User Groups (RUGs) worldwide and numerous SIGs. Get a complete look at the [2004 ITUG calendar](#) for RUGs and SIGs.

**New RUG:** The India NonStop Users Group (InNUG) is a new regional affiliate of ITUG serving members in India and the surrounding areas. InNUG held its kick-off meeting September 9–11 in Goa. This multiday event featured customer presentations as well as vendor and HP sessions. For more information, contact [Nigel Baker](#) or visit the [InNUG](#) website.

**Midwest Roadshow:** Three regional ITUG affiliates in the midwestern United States hosted a roadshow that started with MRTUG in Schaumburg, Illinois, on September 14. It traveled to MiTUG in Michigan on September 15, followed by OTUG on September 16.

- [ATUG](#): Atlanta Tandem Users Group
- [BITUG](#): The British Isles NonStop User Group held a free Education Day for end users on the topic of TCP/IPv6. The meeting took place at the HP offices in London on September 23.
- [CTUG](#): Canadian Tandem Users Group (meeting in Toronto)
- [DUST](#): Desert USers of Tandem (meeting in Phoenix, Arizona)
- [FINTUG](#): Finnish Tandem User Group
- [FTUG](#): A meeting of the French Tandem Users Group took place in Tigery on September 16. This meeting served as a great opportunity to discuss many of the newer technologies, including

OSS and Java, as well as disaster recovery issues and the HP roadmap.

- [GTUG](#): German Tandem Users Group
- [HUG](#): Houston User Group
- [INUG](#): The Iberian NonStop Users Group is revitalizing and needs help. Users in Spain and Portugal are asked to fill out an online survey form. Anyone interested in getting involved can send [e-mail](#).
- [InNUG](#): India NonStop Users Group
- [LATUG](#): The Latin America Tandem Users Group serves NonStop product customers in Argentina, Bolivia, Brazil, Chile, Colombia, Mexico, Paraguay, Peru, Puerto Rico, Venezuela, and Uruguay.
- [MATUG](#): Mid-Atlantic Tandem Users Group
- [MCTUG](#): The Mid-Continent Tandem Users Group held a meeting on September 1 at the HP Office in Overland Park, Kansas.
- [METUG](#): Middle East Tandem Users Group
- [MiTUG](#): The Michigan Tandem Users Group held a meeting on September 15 at the HP Office in Livonia. C
- [MRTUG](#): The Midwest Region Tandem Users Group participated in the Midwest Roadshow in Schaumburg, Illinois, on September 14.
- [MSTUG](#): Mid-Southern States NonStop User Group
- [N2TUG](#): North Texas and Oklahoma Tandem Users Group
- [NCTUG](#): Northern California Tandem User Group
- [NRTUG](#): Northeast Region Tandem Users Group
- [OTUG](#): The Ohio Tandem Users Group participated in the Midwest Roadshow on September 16. The event was held at the JPMorgan Chase (Bank One) offices in Columbus.
- [OZTUG](#): Australian NonStop User Group (meeting in Sydney)
- [PNUTS](#): Pacific Northwest Users of Tandem Systems
- [RMTUG](#): The Rocky Mountains Tandem Users Group held a meeting on the afternoon of September 9 at the HP Office in Lone Tree, Colorado. Dale Wood of Blackwood Systems and John Haverland of HP gave presentations.
- [SATUG](#): Southern African Tandem User Group
- [SCTUG](#): Southern California Tandem Users Group (meeting in El Segundo)
- [SunTUG](#): Florida NonStop Users Group
- [TUMS](#): Tandem Users of the Minneapolis/St. Paul Area
- [VNUG](#): Viking NonStop User Group (meeting in Stockholm)

## Service and support news

### Support note documents practical usage limitations of NonStop ODBC/MP

A support note has been created that documents the practical usage limitations of NonStop ODBC/MP software for

- A single SQL Communication Subsystem (SCS)
- The maximum number of statement handles that NonStop ODBC Server can manage
- The maximum number of server classes that can be mapped to a single SCS process
- ODBC/MP server-side attribute limitations

For more information, see [Support Note S04092](#).

### **New preprocessor variable now available for C++ applications**

A new preprocessor variable, `SPT_THREAD_AWARE_PRAGMA`, is provided in the standard POSIX threads library (T1248AAN) specifically so that C++ applications can avoid compilation errors. Use `SPT_THREAD_AWARE_PRAGMA` instead of `SPT_THREAD_AWARE` when the name of a member function of a class matches any of the `spt_*` calls provided by the standard POSIX threads library. For more information, see [Support Note S04103](#).

### **Support note details OSM performance considerations**

Open System Management (OSM) replaces TSM as the system management tool of choice for NonStop S-series servers. The performance characteristics of OSM are different from those of TSM. A support note has been created that provides details about performance considerations for the OSM server running on the NonStop server. It also provides guidelines about how to maximize application performance while using OSM. For more information, download [Support Note S03133B](#).

### **Updated support notes list SPRs for special consideration**

HP specialists periodically review SPRs for specific operating system RVUs. As a result of their reviews, they occasionally suggest different sets of SPRs for particular RVU upgrades. Subsequently, the information is published in updated support notes. These support notes highlight SPRs that users should consider installing when planning an upgrade. Customers should evaluate each SPR separately. For details, view the following [support notes](#), which indicate the SPR recommendations issued recently for selected RVUs:

- Support Note S04107A: RVU G06.22
- Support Note S00046D: TRM2000

### **Announcing end of service life for several RVUs**

As of December 31, 2004, the following RVUs of the NonStop operating system will move to obsolete status as defined in the Software Product Maintenance List, and these RVUs will no longer be supported by HP Customer Services:

- RVU D32.00 through D37.00
- RVU D42.00 through D44.02
- RVU G03.00 through G06.03

Although any existing SPRs that apply to these RVUs will still be available to download from Scout for NonStop Servers, customers are encouraged to move forward to a later supported RVU. Currently the end of service life for NonStop operating system RVUs D38.00 through D39.02, and D45.00 through D48.03 is December 31, 2006; this date was extended from 2005. For further details, see [Support Note S04003A](#).

### **Support note details NonStop SQL/MX Release 2.0 usage considerations**

NonStop SQL/MX Release 2.0 software delivers the newly architected, standards-based SQL/MX tables for the next-generation NonStop SQL relational database for NonStop servers. These new tables are supported by the enhanced DBMS engine, NonStop SQL/MX, first launched in 2001. Many of the initial users of NonStop SQL/MX software are NonStop users familiar and comfortable with NonStop SQL/MP. A support note highlights the major differences that existing customers may encounter when using NonStop SQL/MX software, and helps customers plan for the use of these new features. For further information, see [Support Note S040961](#).

### **Support note gives guidelines for Flexible Disk Configuration option**

Flexible Disk Configuration (FDC) is an optional feature that was released in RVU G06.23 of the NonStop operating system. FDC allows disks in different topology branches to be paired as mirrored drives. This feature is a follow-on to the enclosure-interleaving feature released in G06.16 (see Support Note S04048), which allows disks in separate enclosures in the same topology branch to be paired. At the same time, FDC also allows two processor groups to access disks in a topology branch. A support note has been created that describes guidelines for FDC configurations. For further details, see [Support Note S04112](#).

## **Fun stuff**

### **Empty-handed after great performance in Belgium**

An eventful Belgian Grand Prix, which occurred on August 29, witnessed three appearances by the safety car. During the race, both BMW WilliamsF1 team drivers delivered, but technical problems prevented them from taking podium results. Both drivers seemed destined to score valuable championship points, with Antonio Pizzonia apparently on his way to clinching his first Formula One podium result. Unfortunately, on lap 32—during the second safety car period—Pizzonia suddenly slowed down and had to retire due to a technical problem. A short time later, on lap 37, the BMW WilliamsF1 team's hopes for a podium result were dashed. Juan Pablo Montoya's right rear tire suffered a puncture, and, although he made it back to the pits, he was also forced to retire. McLaren's Kimi Raikkonen won the race, and Michael Schumacher took second place, thus securing his seventh FIA Formula One World Drivers' Championship. To read more about the race, go to the [home page](#) and select Race Archive from the Season 2004 menu. Then select GP Belgium.

### **BMW WilliamsF1 team scores six points at Italy's Monza**

In one of the most thrilling races of the 2004 FIA Formula One World Championship, Montoya and Pizzonia took fifth and seventh places respectively at the September 12 event in Monza. Both BMW

WilliamsF1 team drivers delivered good performances. Until his second pit stop, Montoya was running third behind B.A.R.'s Jenson Button and Renault's Fernando Alonso. It looked as if he would have the opportunity to fight for victory, because the gap to Button was never more than 2.5 seconds. However, after his second stop, Montoya was hampered by a damaged gearbox and was subsequently passed by both Takuma Sato (B.A.R.) and Michael Schumacher. At the end of the day, Montoya had to make do with fifth place. Pizzonia performed some thrilling overtaking maneuvers against McLaren's David Coulthard, who fended off each attack and finished in sixth position. To read more about the race, go to the [home page](#) and select Race Archive from the Season 2004 menu. Then select GP Italy.

### **Montoya scores four points in first Chinese Grand Prix**

In an exciting race at the brand-new Shanghai International Circuit, Juan Pablo Montoya took fifth place and Ralf Schumacher was forced to retire following a close encounter with David Coulthard. In celebration of the first-ever Chinese Formula One Grand Prix, HP presented an equipment donation valued at US\$120,000 to Beijing-area schools. HP also announced that, for the first time, HP-sponsored BMW WilliamsF1 team cars would feature the company name in Chinese characters, HUI PU. For the BMW WilliamsF1 team, the inaugural Chinese Grand Prix was a race that brought mixed emotions. In his first Grand Prix after a six-race break, Ralf Schumacher delivered a spirited performance. A podium result seemed a possibility until the 37th lap, when an incident brought a sudden end to his comeback. Montoya, however, succeeded in scoring four valuable championship points for the BMW WilliamsF1 team by finishing in fifth place. Barrichello of Ferrari took first, with Jensen of B.A.R. Honda and McLaren's Raikkonen finishing second and third, respectively. To read more about the race, go to the [home page](#) and select Race Archive from the Season 2004 menu. Then select GP China.

For more about the team cars featuring the Chinese version of HP's name, see the [press release](#).

### **Important phone numbers and links**

(Phone numbers are for North America only, unless otherwise noted.)

- [NonStop Computing News](#)— The very latest NonStop product news.
- [Global Customer Support Center](#): 1 (800) 255 5010 (U.S. only)— Technical hardware and software defect support and usage assistance.
- [NonStop Presales Group](#): 1 (800) 282 6672— Product information, price quotations, order processing information.
- [NonStop eServices portal](#)— A convenient, password-protected portal with access to a wide variety of services.
- [Partnerships and solutions](#)— Information on strategic partnerships, partner products, services, and solutions.
- [NonStop technology education](#): 1 (800) 472 5277— Education schedules, information, prices, and class enrollments.
- [NonStop Technical Library](#)— A wide range of NonStop product publications, including

technical manuals, articles, and support information.

- [NonStop Direct online store](#): 1 (800) 482 6336— Convenient product ordering by phone or the Web.
- [Business continuity and disaster recovery solutions](#)— Basic information about business continuity, NonStop server products and services for business continuity and disaster recovery, and customer successes.
- [Software developers' information](#)— Information for developers of NonStop system applications.
- [Interactive Upgrade Guide](#)— An interactive tool to help plan system release migrations.
- [Internet-enabled applications](#)— Preserving your investment in NonStop system business applications and databases while applying the latest Internet technologies.
- [Product information for NonStop servers](#)
- [ITUG](#), a user group for the NonStop server community: +1 (312) 321 6851
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