



Announcement Summary

IBM United States

April 27, 2004

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IBM TotalStorage FASTT Storage Servers provides support for IBM @server systems running the Linux for Power operating system

Announcement Letter 104-134, Dated April 27, 2004

Overview

IBM TotalStorage® FASTT Storage Servers attach to selected IBM @server systems running the Linux for Power operating systems. The IBM FASTT Linux for Power Host Kits let you attach selected pSeries® host servers running Novell SUSE Linux Enterprise for pSeries to the following FASTT Storage Servers:

- FASTT600 Storage Server (machine type/model: 1722/60U, 1722/6LU)
- FASTT900 Storage Server (machine type/model: 1742/90U)

The FASTT Host Kits provide a CD-ROM and supporting documentation for updating the IBM Licensed Machine Code on the host servers.

Key prerequisites

- IBM @server pSeries
- Novell SUSE Linux Enterprise 8 for pSeries

For availability dates, configuration options, supported server models, supported operating system levels, supported system levels, and attachment capabilities, refer to

<http://www.ibm.com/storage/fast900>

<http://www.ibm.com/storage/fast600>

Planned availability date

May 7, 2004

At a glance

Using the IBM TotalStorage FASTT Linux for Power Host Kits, you can attach IBM TotalStorage FASTT600 and FASTT900 Storage Servers to selected IBM @server systems running the Linux for Power operating systems.

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM TotalStorage UltraScalable Tape Library 3584 Models now support the 3592 Tape Drive and expand capacity and function

Announcement Letter 104-135, Dated April 27, 2004

Overview

New models of the IBM TotalStorage® UltraScalable Tape Library 3584 provide enhanced tape drive technology and support in reduced footprint frames while helping to protect the investment of existing 3584 UltraScalable Tape library installations.

The IBM TotalStorage UltraScalable Tape Library 3584 is designed to be a highly scalable, automated tape library combining IBM automation technology for midrange to enterprise open systems environments. The new 3584 Model L52 and D52 Frames integrate IBM TotalStorage Linear Tape-Open (LTO) Ultrium Tape Drives, and the Model L22 and D22 Frames integrate the IBM TotalStorage Enterprise Tape Drive 3592 with 2-Gbps dual-ported switched fabric Fibre Channel attachment.

The new IBM 3584 Tape Library frames include an optimized dual-gripper cartridge accessor, portable drive canister packaging, and 16-slot Input/Output (I/O) stations. The new 3584 Model D22 and D52 Frames can be attached to Model L22 or L52 Frames, or to installed 3584 Model L32 or D32 Frames, and can be intermixed within the same 3584 library. With 3592 Tape Drives, the 3584 library can have an expanded available storage capacity of up to 5,634 TB (with 3:1 compression).

You can now tailor the library to match your system capacity, performance, and application requirements using up to 192 drives in up to sixteen 3584 library frames.

The new Advanced Library Management System (ALMS) is the next generation of patented IBM Multi-Path Architecture. ALMS is designed to provide enhanced automation functionality such as dynamic partitioning, including storage slot pooling and flexible

drive assignment. Capacity On Demand (COD) level additions can also be selected and implemented through license key upgrades with the 3584 Model L52 or L22 Frames, providing growth flexibility as required. The 3584 continues to offer a SAN-ready Multi-Path Architecture, and the ability to partition the library into 192 logical libraries. Tivoli® Storage Manager and other industry-leading compatible software offerings can provide storage and tape management for the 3584.

These advancements in performance, capacity, function, and footprint help reduce automation floor space requirements, enhance library management, and provide flexibility, growth, and a foundation for automation across an enterprise or business installation.

Key prerequisites

Appropriate levels of host software are required to attach the UltraScalable Tape Library 3584 with IBM LTO Ultrium Tape Drives or the Enterprise Tape Drive 3592 to selected IBM @server iSeries™, AS/400®, IBM @server pSeries®, RS/6000®, RS/6000 SP™, IBM @server xSeries®, Netfinity®, IBM @server zSeries® Linux, Sun, Microsoft™ Windows NT™, Windows™ 2000, Windows 2003, Linux, and other UNIX® and PC servers. Refer to the **Technical information** section for details.

Planned availability dates

- June 11, 2004: All models and features, except feature numbers 1681 and 1690, and AAP features
- August 27, 2004: Feature numbers 1681 and 1690, AAP features, and model conversions

At a glance

The IBM TotalStorage UltraScalable Tape Library 3584 combines IBM tape and automation reliability at open systems prices. New models expand capacity and function, providing the following enhancements:

- Reduction in the library footprint
- Support for both IBM LTO Tape Drives and 3592 Tape Drives (in separate frames)
- Expansion of the available storage capacity up to 5,634 TB (with 3:1 compression)
- Intermix of the new models with installed 3584 libraries
- Enhanced automation functionality with ALMS
- Lower entry capacity configurations with Capacity On Demand (COD) level additions

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM TotalStorage FASTT Storage Servers provides support for IBM @server systems running the Linux for Power operating systems – Available via the xSeries distribution channel

Announcement Letter 104-136, Dated April 27, 2004

Overview

IBM TotalStorage® FASTT Storage Servers attach to selected IBM @server systems running the Linux for Power operating systems. The IBM FASTT Linux for Power Host Kits let you attach selected pSeries® host servers running Novell SUSE Linux Enterprise for pSeries to the following FASTT Storage Servers:

- FASTT600 Storage Server (172260U/172260X/17226LU/17226LX)
- FASTT900 Storage Server (174290U/174290X)

The FASTT Host Kits provide a CD-ROM and supporting documentation for updating the IBM Licensed Machine Code on the host servers.

Key prerequisites

- IBM @server pSeries
- Novell SUSE Linux Enterprise 8 for pSeries

For availability dates, configuration options, supported server models, supported operating system levels, supported system levels, and attachment capabilities, refer to:

<http://www.ibm.com/storage/fast900>

<http://www.ibm.com/storage/fast600>

Planned availability date

June 7, 2004

At a glance

Using the IBM TotalStorage FASTT Linux for Power Host Kits, you can attach IBM TotalStorage FASTT600 and FASTT900 Storage Servers to selected IBM @server systems running the Linux for Power operating systems.

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

Cisco MDS 9000 Port Analyzer Adapter, Enhanced: New version improves performance monitoring

Announcement Letter 104-137, Dated April 27, 2004

Overview

The Cisco MDS 9000 family is designed to offer investment protection, flexibility, scalability, robustness, advanced diagnostics, and integration for workgroup and enterprise SANs.

A new model is now available within the Cisco Systems Multilayer Switch Product family, the **Cisco MDS 9000 Port Analyzer Adapter, Enhanced** (2061-PA2). This new model is designed to provide enhanced performance monitoring functionality that can help your network analysis and troubleshooting as well as integration with Cisco Fabric Manager.

When used with the optional Cisco MDS 9000 Fabric Manager Server Package, the enhanced Port Analyzer Adapter is designed to record the original size of truncated Fibre Channel frames as they are encapsulated and transferred over Ethernet. This allows the Cisco Fabric Manager Server Package to accurately calculate and display performance data without requiring the forwarding of full data traffic frames over Ethernet.

The Cisco MDS 9000 family provides products that are designed to assist users implementing a multiprotocol-capable SAN infrastructure with advanced intelligence that helps address demands for the security, performance, and manageability required to consolidate geographically dispersed SANs.

Key prerequisites

Cisco Systems Multilayer Switch and Directors are designed to support:

Servers

- IBM *@server* pSeries® and selected RS/6000® servers
- IBM *@server* iSeries™ and selected AS/400® servers
- IBM *@server* xSeries® and selected Netfinity® servers
- Other Intel™-based servers with Linux, and Microsoft™ Windows™ 2000 and Windows 2003
- Selected Sun and HP servers

Storage systems

- IBM TotalStorage® Enterprise Storage Server™
- IBM TotalStorage FAST Family of Storage Servers
- IBM TotalStorage SAN Volume Controller
- IBM TotalStorage Enterprise Tape System 3590 and 3592
- IBM TotalStorage Enterprise Tape Library 3494
- IBM TotalStorage Enterprise Tape Controller 3592 Model J70
- IBM TotalStorage Enterprise Tape Controller 3590 Model A60
- IBM 3582, 3583, and 3584 Ultrium LTO Tape Libraries, and
- Other selected storage systems

At a glance

- Cisco MDS 9000 Port Adapter Analyzer, Enhanced (2061-PA2), designed for improved performance monitoring functionality, helps analyze and troubleshoot your network as well as integrate with Cisco Fabric Manager.

The Cisco Systems MDS 9000 family offers:

- Virtual SAN (VSAN) hardware for SAN environments with added scalability and resilience
- Security for large enterprise SANs

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

Planned availability date

May 7, 2004

IBM @server xSeries Subscription Services with notification of product updates

Announcement Letter 104-138, Dated April 27, 2004

Overview

You want updates to the latest software fast. It's vital to a business. Rapid innovation has accelerated product cycles and added complexity to keeping your software up-to-date.

An IBM @server xSeries® Subscription Services contract entitles you to receive future updates that become available during your subscription period at no additional charge.

Some IBM customers are entitled to receive updates without purchasing a subscription. Contact your IBM representative for information.

With software subscription services, you will receive proactive notification of new upgrades, patches and support information.

Subscription offerings available include:

- IBM Director (server and agent)
- IBM Director Server Plus Pack
- Remote Deployment Manager (server and workstation)
- Software Distribution Premium Edition
- UpdateXpress
- ServerGuide™

Features:

- Entitlement to product updates at no additional cost
- Proactive notification of product updates
- Free product downloads
- Reminder notices for subscription renewal for product updates
- Reduced support costs with timely information and software

Key prerequisites

Subscription after-license part numbers require a valid software license. Purchase of the renewal part numbers requires the customer to already be in the subscription program.

Planned availability date

April 30, 2004

Trademarks

ServerGuide is a trademark of International Business Machines Corporation in the United States or other countries or both.

The e-business logo and xSeries are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Other company, product, and service names may be trademarks or service marks of others.

At a glance

Ensure that you are up-to-date with the latest technology to keep your business growing.

- Offerings for the following xSeries software products
 - IBM Director (server and agent)
 - IBM Director Server Plus Pack
 - Remote Deployment Manager (server and workstation)
 - Software Distribution Premium Edition
 - UpdateXpress
 - ServerGuide
- Coverage options in one- or two-year increments
- Entitlement to product updates at no additional cost
- Proactive notification of new upgrades, patches, and support information.
- Free downloads during your subscription period (CDs at additional charge)

IBM Self Checkout solution offers a flexible and complete line of self checkout products that provide the convenience consumers crave and the reliability retailers need

Announcement Letter 104-139, Dated April 27, 2004

Overview

Intuitive and easy-to-use, the IBM Self Checkout products are designed to work well in virtually any store format. These secure, reliable self checkout solutions can help improve customer satisfaction, build loyalty, and meet the growing demand for fast self service. Versatile design options meet a wide range of store-specific requirements and allow retailers to choose the right solution to optimize total capacity and maximize ROI.

IBM Self Checkout leverages IBM's three-decade leadership in the retail industry and is a key component of IBM's Retail on Demand strategy. It has broad application across multiple segments and is designed to interface with IBM's other retail front-end solutions. Implemented across the grocery and supermarket segment, the IBM solution is also being installed in warehouse clubs and mass merchandisers and is beginning to penetrate the drug chain / convenience store segment.

Three options of IBM Self Checkout are currently available:

Full-Lane option (4845-170)

This conveyor-based option provides retailers with the ability to handle any size order, any time to drive usage in large and small format stores. It features combined weight and dimensional security that is exclusive to IBM Self Checkout systems. Model 170 comes standard with the Full-Lane 48-inch bagging feature.

Express plus (4845-150)

The Express plus option, sometimes referred to as the "scan-and-bag" solution, offers retailers added flexibility with its lower cost and compact footprint. This option, with weight-based security, serves the front-end need for processing smaller express-sized orders (8-12 items). Model 150 comes standard with the Express plus (tiered 2-bagger right/left) feature.

Express (4845-130)

The Express option offers the most compact footprint for those retailers with minimal security concerns. This option is ideal for handling small-sized orders (4 items or less) in an environment that does not require security. Well suited for small store formats, the Express option has the smallest footprint possible. The Express solution comes standard with a single bagging rack and a product shelf.

Planned availability date

June 25, 2004

At a glance

- Integration environment
 - Direct integration with a wide variety of POS applications
 - Remote support capabilities via 24/7 Help Desk and PC Anywhere
- Product-line features
 - Modular self checkout options with multiple bagging selections
 - Intuitive, user-friendly touch screen interface, and helpful audio and video instructions
 - Integration with a wide variety of customer-furnished pinpads, scanner/scales, lane lights, and electronic marketing
 - Built-in security features that are exclusive to the IBM Self Checkout systems
- Core self checkout module containing:
 - Bill and coin acceptors and dispensers
 - Drop-in coupon collector with sensor
 - Built-in signature capture device
 - IBM SureMark™ Printer Model T14 with check franking and MICR read capability
 - Transaction awareness light
 - Icon-based lookup screens for non-barcoded items
 - IBM SurePoint™ 15-inch high-resolution flat panel color touchscreen display
 - Proximity sensor that activates welcome audio
 - IBM SurePOS™ 700 (721)

IBM TotalStorage Enterprise Tape Cartridge Models E11, E12, E13, E21, E22, E23, 021, 022, and 023 provide Economy, Economy WORM, and WORM media for enterprise tape drives

Announcement Letter 104-140, Dated April 27, 2004

Overview

Nine new models of the IBM TotalStorage® Enterprise Tape Media 3599 are available to order data cartridges for the IBM TotalStorage Enterprise Tape Drive 3592. These new models support the Write-Once, Read-Many (WORM) feature of the drive and also provide low-capacity, low-price media. The 3599 Models 021, 022, and 023 provide 300 GB of WORM storage, whereas the 3599 Models E21, E22, and E23 provide WORM storage on a new 60 GB WORM cartridge. The 3599 Models E11, E12, and E13 provide 60 GB of rewritable storage. As with the previous models, these models allow flexibility in the specification and ordering of pre-labeled and initialized data cartridges.

The IBM TotalStorage Enterprise Tape Cartridge 3592 (WORM) Models 021, 022, and 023 and the IBM TotalStorage Enterprise Tape Cartridge 3592 (Economy WORM) Models E21, E22, and E23 were designed for applications such as archiving and data retention, as well as those applications requiring an audit trail. These cartridges work with the IBM 3592 Tape Drive to help prevent the alteration or deletion of user data. In addition, IBM has taken several steps to reduce the possibility of tampering with the information:

- The cartridge is molded in a different color than rewritable cartridges.

- Special screws are used to make opening the cartridge difficult.
- The special Cartridge Memory helps protect the WORM nature of the media.
- A unique format is factory-written on each WORM cartridge.

Both the IBM TotalStorage Enterprise Tape Cartridge 3592 (Economy) and Enterprise Tape Cartridge 3592 (Economy WORM) provide 60 GB of capacity per cartridge. These Economy cartridges are for applications where 60 GB is more appropriate than 300 GB and for applications where time to first data is important.

The new models have Cartridge Memory in each data cartridge designed to help enhance the functionality and reliability of the media. The form factor of the cartridges for the 3592 drive is similar to that used by the 3590 drive, which allows them to be used in the IBM TotalStorage Enterprise Automated Tape Library 3494 or the StorageTek Automated Cartridge System (ACS) Silo solutions.

Key prerequisites

These products are only for use with the Enterprise Tape Drive 3592 Model J1A.

Planned availability date

May 21, 2004

At a glance

The IBM TotalStorage Enterprise Tape Media 3599 provides the ability to order the IBM TotalStorage Tape Cartridge with the following features:

- Rewritable cartridges of either 300 GB or 60 GB capacity
- WORM cartridges of either 300 GB or 60 GB capacity
- Labeled and initialized cartridges with the ability to specify a color coded volume serial number, saving time and labor when adding cartridges to your library inventory

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM TotalStorage SAN family enhancements offer M12 Director Control Processor and Switch Blade upgrade, C36 Cabinet integration, and fiber optic accessories

Announcement Letter 104-141, Dated April 27, 2004

Overview

IBM TotalStorage® SAN Switch family offerings now include improved M12 Director (2109-M12) scalability with upgradability to a single 128 port fabric, C36 Cabinet (2109-C36) integration for the new M14 Director (2109-M14), and a number of new fiber optic transceiver and cable accessory options.

The IBM TotalStorage SAN Switch M12 (2109-M12 Director) offers improved scalability from 32 to 128 port fabrics, with the M14 Control Processor Blade Upgrade Kit (#3126). The upgrade kit consists of two M14 Control Processors and two M14 Switch Blades, and is designed to enable the full set of advanced functions included in the latest release of IBM TotalStorage SAN Switch firmware and software. To complete the forward migration upgrade to M14 Director capabilities, the M12 Director switch blades must be replaced with the new 16 Port 2 Gb M14 Switch Blade feature (#3226).

The IBM TotalStorage SAN Switch Cabinet (2109-C36) adds support for a no-additional-cost specify code, designed to integrate the new M14 Director into the C36 Cabinet. The new C36 Cabinet specify code, Quantity of M14 installed in C36 (#9230), helps maintain the correct configuration of deployed features.

IBM TotalStorage SAN Switch and Director offerings now include the following fiber optic transceiver and cable options, designed to increase affordability, extended distance support, and deployment flexibility.

- The IBM TotalStorage SAN Switch F08, F16, F32, and M12 Director adds more affordable four pack transceiver options for both shortwave and longwave.
- The SAN Switch F08 and F16 adds extended distance support for remote copy and disaster solutions with 35 km and 80 km extended distance transceivers.
- The SAN Switch F32 and M12 Director adds single mode fiber optic cables and couplers to increase deployment flexibility.

Key prerequisites

The IBM TotalStorage SAN Switch family supports Fibre Channel connectivity for servers and storage. For a complete list refer to the end of the **Description** section.

For specific availability dates, configuration options, server models, operating systems levels, and attachment capabilities, consult the Web at

<http://www.ibm.com/storage/FCSwitch>

Planned availability date

May 7, 2004

At a glance

The IBM TotalStorage SAN Switch family adds the following new features:

- Forward migration support to enable advanced functions on the M12 Director (2109-M12), with the introduction of the M14 Control Processor and M14 Switch Blade upgrade onto the M12 Director
- C36 Cabinet specify code to integrate the new M14 Director into the C36 Cabinet and maintain the correct configuration of deployed features
- Expanded fiber optic transceiver and cable options, designed to increase affordability, extended distance support, and deployment flexibility

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

External SCSI port available for IBM @server pSeries 615 and IntelliStation POWER 275

Announcement Letter 104-144, Dated April 27, 2004

Overview

pSeries® 615 Model 6E3/6C3 servers and the IntelliStation® POWER™ 275 workstation can now have an external SCSI port. The External SCSI Port Enablement Cable connects a SCSI internal controller to an external port, allowing attachment of external SCSI devices to the system.

Installing this feature in a system prevents the use of a second four-pack disk enclosure (second #6574 or first #6584). The cable uses one PCI-X slot and is available on both currently installed systems and new orders.

Key prerequisites

Refer to the **Hardware requirements** and **Software requirements** sections.

Planned availability date

June 4, 2004

Trademarks

POWER is a trademark of International Business Machines Corporation in the United States or other countries or both.

The e-business logo, IntelliStation, and pSeries are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Other company, product, and service names may be trademarks or service marks of others.

At a glance

The External SCSI Port Enablement Cable:

- Provides an external SCSI port to pSeries 615 servers and the IntelliStation POWER 275 workstation
- Limits the system to one four-pack DASD enclosure
- Requires one PCI-X slot

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: RE001

IBM 7316-TF3 Flat Panel Console Kit fits slim monitor in 1U rack space; NetBAY LCM Switch supports up to 64 servers from single console

Announcement Letter 104-145, Dated April 27, 2004

Overview

In situations where space is constrained, the IBM 7316-TF3 Flat Panel Console Kit offers a space-saving monitor that occupies only 1U (1.75 inches) in a rack. The bright, 17-inch (337.9 mm x 270.3 mm) flat panel color monitor mounts in a 19-inch standard rack drawer, using the flat panel monitor rack-mount kit.

Using thin film transistor (TFT) LCD technology, the monitor features 1280 x 1024 display resolution without the glare of most CRTs.

The Model TF3 replaces the Model TF2.

The IBM Travel Keyboard is a mandatory feature for the 7316-TF3; it mounts in the 7316-TF3 keyboard tray.

The 7316-TF3 also supports the NetBAY LCM Switch (#4202) that allows users single-point access and control of up to 64 servers from a single console. The NetBAY LCM Switch has a maximum video resolution of 1600 x 1280 and mounts in a 1U drawer behind the 7316-TF3 monitor.

Key prerequisites

The 7316-TF3 is available on the following pSeries® and RS/6000® systems:

- pSeries 610 Model 6C1
- pSeries 615 Model 6C3
- pSeries 630 Model 6C4
- pSeries 640 Model B80
- pSeries 650 Model 6M2
- pSeries 655 Model 651
- pSeries 660 Models 6M1/6H1/6H0
- pSeries 670 Model 671
- pSeries 680 Model S85
- pSeries 690 Model 681
- RS/6000 7046-B50
- RS/6000 7025-H70
- RS/6000 7026-H70
- RS/6000 7026-H80
- RS/6000 7026-M80
- RS/6000 7017-S80
- RS/6000 7040-61D
- RS/6000 7311-D10/D20
- RS/6000 7315-CR2

Planned availability date

May 7, 2004

At a glance

The IBM 7316-TF3 Flat Panel Console Kit offers:

- Slim, sleek, lightweight monitor design that occupies only 1U (1.75 inches) in a 19-inch standard rack
- A 17-inch, flat screen TFT monitor with truly accurate images and virtually no distortion
- Ability to mount the IBM Travel Keyboard in the 7316-TF3 rack keyboard tray
- Support for the NetBAY LCM Switch

The NetBAY LCM Switch offers:

- Access to and control of as many as 64 servers
- Support of both USB and PS/2® server-side keyboard and mouse connections

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: RE001

IBM USB Travel Keyboard with UltraNav – Lightweight, cost-effective IBM ThinkVantage design offers portability and flexibility

Announcement Letter 104-146, Dated April 27, 2004

Overview

The IBM USB Travel Keyboard with UltraNav™ is the ultimate accessory for professionals at the office or on the road. Utilizing a similar keyboard and UltraNav pointing device hardware as legendary ThinkPad® systems, this keyboard lets you share the ThinkPad experience. The IBM USB Travel Keyboard with UltraNav is compact and lightweight, only 22-mm (0.8-in) thick, and includes its own carrying case.



Key prerequisites

- IBM-compatible desktop or ThinkPad notebook system
- USB port

Availability date

April 27, 2004

At a glance

The IBM USB Travel Keyboard with UltraNav brings the legendary ThinkPad keyboard look and feel to ThinkCentre™ and ThinkPad desktop expansion and docking solutions:

- Lightweight and compact: Ideal for travel and work environments with limited desk space
- Features UltraNav, an example of ThinkVantage™ design, which lets you choose which pointing device to use: TrackPoint®, touchpad, or both
- Keep your ThinkPad notebook lid closed with the only external keyboard to support ThinkPad keyboard features with the “Fn” function key:
 - Speaker volume, external monitor control, brightness, system sleep, and suspend
 - Two built-in USB ports for additional desktop expansion
 - Keyboard feet offer typing comfort with two height levels

For technical support:

- Call the Support Center 800-IBM-SERV (426-7378) or
- Request technical information via the Personal Computing Division Web site at <http://www.ibm.com/pc/support>

VMware offerings for BladeCenter – Great value and a convenient way to order

Announcement Letter 104-147, Dated April 27, 2004

Overview

The VMware offerings for BladeCenter™ provide a convenient way to order VMware software for IBM eServer® BladeCenter servers.

- The VMware Virtual Infrastructure Node license pack for BladeCenter contains licenses for Virtual Infrastructure Nodes for 14 two-way blades.
- The VMware ESX Server and VirtualCenter Agent license pack for BladeCenter contains VMware ESX Server and VirtualCenter Agent licenses for 14 two-way blades.

These BladeCenter license packs enable you to purchase VMware software for a full BladeCenter chassis using one convenient part number at one low price.

The VMware ESX Server and VMware VirtualCenter media kits offer a convenient way to obtain VMware product media and documentation. Each media kit contains a product CD and printed manual.

IBM sells the purchaser entitlement to the VMware products and the products are distributed directly from VMware to the purchaser.

Comprehensive fee-based IBM support offerings are separately available for VMware support through IBM Technical Support Services. Support from IBM Technical Support Services is required for VMware ESX Server and VirtualCenter products included in the VMware for BladeCenter offerings.

For detailed product information, visit

<http://www.vmware.com/products>

Additional information: All offers are subject to availability. IBM reserves the right to alter product offerings and specifications at any time without notice. IBM is not responsible for photographic or typographic errors.

IBM makes no representation or warranty regarding third-party products or services.

Key prerequisites

The following products must be purchased together with a corresponding IBM hardware product:

- VMware Virtual Infrastructure Node license pack for BladeCenter
- VMware ESX Server and VirtualCenter Agent license pack for BladeCenter
- VMware ESX Server and VirtualCenter Agent license for single blade

Planned availability date

May 31, 2004

Trademarks

BladeCenter is a trademark of International Business Machines Corporation in the United States or other countries or both.

eServer is a registered trademark of International Business Machines Corporation in the United States or other countries or both.

Other company, product, and service names may be trademarks or service marks of others.

At a glance

The VMware offerings for BladeCenter provide:

- A convenient way to order VMware software for BladeCenter servers
- A discounted bundle that provides great value

VMware media kits deliver physical VMware media for VMware products — Great for customers who prefer physical media and a manual over the convenience of software downloads.

Except for media kits, all VMware offerings include a one-year software maintenance subscription service.

Comprehensive fee-based IBM Support Line offerings are separately available for VMware support through IBM Technical Support Services.

For technical support:

- Call the Support Center at 800-IBM-SERV (426-7378) or
- Request technical information via the Personal Computing Division Web site at <http://www.ibm.com/pc/support>

The IBM TotalStorage Enterprise Automated Tape Library 3494 delivers availability enhancements and now supports new WORM and short media

Announcement Letter 104-148, Dated April 27, 2004

Overview

The IBM TotalStorage® Enterprise Automated Tape Library 3494 is enhanced to support the IBM TotalStorage Master Console (TSMC) which integrates service monitoring of the 3494 library. Remote data monitoring of devices attached to the master console may assist in determining if the 3494 is working properly and providing rapid diagnostic support.

In addition, the 3494 now supports new IBM TotalStorage Enterprise Tape Cartridge 3592 media when used in conjunction with the IBM TotalStorage Enterprise Tape Drive 3592 Model J1A. New 3592 cartridges announced today include a 300 GB WORM Cartridge, 60 GB WORM Cartridge, and an Economy short-length (60 GB) rewritable cartridge. These are in addition to the previously announced 300 GB rewritable cartridge.

Write once read many (WORM) data cartridges provide nonalterable, nonrewritable tape media for long-term records retention. When the 3592 Model J1A tape drive detects a WORM cartridge, the tape drive is designed to prevent overwrite or changes to existing customer data. New data can be appended to existing data until the cartridge capacity is reached. WORM Cartridges are available in two sizes, 300 GB or 60 GB native capacity. These new media types are reported to the host by 3592 Model J1A Tape drives and/or controllers. WORM and rewritable tape cartridges in both sizes can be intermixed in the same 3494 Tape Library.

This new media offers customers unsurpassed flexibility to meet their performance, capacity, and data security requirements.

Key prerequisites

- One IBM TotalStorage Master Console feature is required on all new 3494 Model L12, or L22 orders.
- The new WORM and short (60 GB) rewritable media is supported with a microcode firmware update to the library manager of the 3494.

Refer to the **Technical information** section for details.

Planned availability dates

- May 21, 2004, for feature number 0520, and TSMC features on new machines
- August 6, 2004, for TSMC features as an MES

At a glance

The IBM TotalStorage Enterprise Automated Tape Library 3494 is enhanced to integrate service monitoring and support new 3592 tape cartridges. Enhancements include:

- IBM TotalStorage Master Console features
- Support for new 3592 media:
 - 60 GB and 300 GB write once read many (WORM) media
 - 60 GB rewritable media

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

Cisco MDS 9000 Enhancements – Fabric Manager Server Package Bundle, Mainframe Package Bundle, and 4 Port IP Storage Services Module

Announcement Letter 104-149, Dated April 27, 2004

Overview

The Cisco MDS 9000 family of Fabric Switch and Director offerings, resold by IBM, now offer expanded capabilities, with the introduction of optional Fabric Manager Server Package Bundle, Mainframe Package Bundle with FICON™ protocol support, and a 4 Port Internet Protocol Storage (IPS) Services Module for the Cisco MDS 9216 (2062-D01), MDS 9506 (2062-D04/T04), and MDS 9509 (2062-D07/T07). Also introduced for these Cisco models are the Fibre Channel over Internet Protocol (FCIP) Activation option for the 4 Port IPS Services Module, and Coarse Wavelength Division Multiplex (CWDM) fiber optic transceiver features.

The Cisco MDS 9000 Fabric Manager function is included at no additional cost in the base MDS 9000 switches, and is designed to provide switch configuration and troubleshooting capabilities. The optional Cisco MDS 9000 Fabric Manager Server (FMS) Package Bundle extends Cisco Fabric Manager by helping provide historical performance data collection for network traffic hot-spot analysis, centralized management services, and support for advanced application integration. The FMS Package Bundle includes first-year software warranty plus two additional years of post-warranty support for the software package.

The optional Cisco MDS 9000 Mainframe Package Bundle is a collection of advanced capabilities to enable MDS 9000 operation in mainframe storage network applications. The Mainframe Package Bundle includes the following features, as well as first-year software warranty plus two additional years of post-warranty support for the software package.

- Mainframe FICON protocol and FICON Control Unit Port (CUP)
- SANs for FICON and FCP intermixing
- FICON Switch Cascading and Fabric Binding

The Cisco 4 Port IPS Services Module is designed to help increase affordability of Internet Small Computer System Interface (iSCSI) host connection to Fibre Channel storage. Optionally with the FCIP Activation feature, the Cisco 4 Port IPS Services Module enables FCIP support for extended distance fabric operation while preserving advanced Virtual SAN (VSAN) capabilities across LAN and WAN connections.

Coarse Wavelength Division Multiplex (CWDM) fiber optic transceiver features are orderable on optional Modules for integration into Cisco MDS 9216 (2062-D01), MDS 9506 (2062-D04/T04), and MDS 9509 (2062-D07/T07) models. This allows customers to purchase individual CWDM transceivers for extended distance connections, while also allowing customers the option to add CWDM mux capability (2062-CW1) when needed.

Key prerequisites

For a complete list of Cisco Switches and Directors that are designed to provide Fibre Channel connectivity support, refer to the **Supported servers and storage systems** section.

Planned availability date

May 7, 2004

At a glance

The Cisco MDS 9000 family adds:

- The Fabric Manager Server (FMS) Package Bundle to extend the capabilities of the Cisco Fabric Manager to provide historical performance data collection for network traffic hot-spot analysis, centralized management services, and support for advanced application integration.
- The Mainframe Package Bundle to provide a collection of advanced features designed to help enable MDS 9000 operation in mainframe storage network applications, including FICON Control Unit Port (CUP) and VSANs for FICON and FCP intermixing.
- The 4 Port IPS Services Module to help increase the affordability of iSCSI host connection to Fibre Channel storage, and optional FCIP Activation feature to help preserve advanced Virtual SAN (VSAN) capabilities across LAN and WAN connections.
- Individual Coarse Wavelength Division Multiplex (CWDM) fiber optic transceivers to support extended distance connections, while allowing customers to add CWDM mux capability when needed.
- Additional ac power cords.

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM TotalStorage Enterprise Tape 3592 Model J1A enhanced to support WORM and short (60 GB) media

Announcement Letter 104-150, Dated April 27, 2004

Overview

Enhanced cartridge support is available to users of the IBM TotalStorage® Enterprise Tape Drive 3592 Model J1A, providing new levels of data retention capability, cartridge capacity, and performance. This includes support of Write Once Read Many (WORM) data cartridges and Economy (short-length 60 GB) rewritable or WORM data cartridges.

The IBM TotalStorage Enterprise Tape Cartridge 3592 WORM data cartridges are designed to provide non-alterable, non-rewritable tape media for long-term records retention. When the 3592 Model J1A Tape Drive detects a WORM cartridge, the tape drive prevents overwrite or changes to existing customer data. New data can be appended to existing data until the cartridge capacity is reached. WORM cartridges are available in two sizes, 60 GB or 300 GB native capacity. These new media types are reported to the host by 3592 Model J1A Tape Drives and controllers. WORM and standard tape cartridges can be intermixed within the same IBM TotalStorage Enterprise Automated Tape Library 3494, IBM TotalStorage UltraScalable Tape Library 3584, or StorageTek Automated Cartridge System (ACS) solutions.

Support for new short-length 60 GB rewritable media is also available. The IBM TotalStorage Enterprise Tape Cartridge 3592 Economy provides a 60 GB native capacity cartridge, which complements existing 300 GB cartridges and delivers an affordable alternative to scaling 300 GB cartridges.

The new media, combined with the existing 300 GB rewritable cartridge, offers unsurpassed flexibility to meet performance, capacity, and data security requirements.

Microcode firmware to support this capability is available on the IBM TotalStorage Enterprise Automated Tape Library 3494, and on the IBM TotalStorage Enterprise Tape Controllers 3592 Model J70 and 3590 Model A60.

In addition, the IBM TotalStorage UltraScalable Tape Library 3584 now includes support of 3592 Model J1A Tape Drives. Refer to Hardware Announcement 104-135, dated April 27, 2004.

Fulfillment of Statement of Direction

Support of the WORM functionality and new cartridges fulfills the Statement of Direction included in Hardware Announcement 103-235, dated September 9, 2003.

Key prerequisites

- Support for the new WORM and economy (60 GB) cartridges requires a microcode update to installed 3592 Model J1A Tape Drives.
- Selected IBM @server zSeries® servers with ESCON® and/or FICON™ channels and the appropriate levels of system software also support the 3592 Model J1A Tape Drives when connected to an IBM 3592 TotalStorage Enterprise Controller Model J70 or IBM TotalStorage Enterprise Controller Model A60. These controllers also require a firmware upgrade to enable WORM support.

At a glance

The IBM TotalStorage Enterprise Tape Drive 3592 Model J1A has been enhanced to support new tape cartridges:

- 60 GB and 300 GB Write Once Read Many (WORM) cartridges
- Economy 60 GB rewritable cartridges

Supporting microcode firmware is available on the:

- IBM TotalStorage Enterprise Tape Controllers 3592 Model J70 and 3590 Model A60
- IBM TotalStorage Enterprise Automated Tape Library 3494

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

Planned availability dates

- May 21, 2004: Feature number 0520
- June 11, 2004: Feature number 9677

Cisco Enhancements – Fabric Manager Server Package Bundle and enhanced warranty upgrade on MDS 9120 and MDS 9140 Fabric Switches

Announcement Letter 104-151, Dated April 27, 2004

Overview

The Cisco MDS 9000 family of Fabric Switch and Director offerings, resold by IBM, now offers expanded capabilities with the introduction of optional Fabric Manager Server Package Bundle and CWDM fiber optic transceiver features for the Cisco MDS 9120 (2061-020) and MDS 9140 (2061-040) fabric switches. Also introduced on these Cisco models are an enhanced warranty upgrade option and new post-warranty support features.

The Cisco Fabric Manager function is included at no additional cost in the base MDS 9000 switches, and is designed to provide switch configuration and troubleshooting capabilities. The optional Cisco FMS Package Bundle extends Cisco Fabric Manager by helping provide historical performance data collection for network traffic hot-spot analysis, centralized management services, and support for advanced application integration. The FMS Package Bundle includes first-year software warranty plus two additional years of post-warranty support for the software package.

CWDM fiber optic transceiver features are orderable on Cisco MDS 9120 (2061-020) and MDS 9140 (2061-040) fabric switches. This allows customers to purchase individual CWDM transceivers for extended distance connections, while also allowing customers the option to add CWDM mux capability with the Cisco CWDM solution (2062-CW1) when transmission of multiple wavelengths over a shared extended distance fiber optic cable becomes necessary.

Cisco enhanced warranty upgrade and post-warranty support features are now orderable with the Cisco MDS 9120 and 9140 Fabric Switches purchased through IBM or IBM Business Partners. The Cisco enhanced warranty upgrade feature is available at initial plant order on the MDS 9120 and 9140, and provides first-year warranty, 24 x 7 on-site Cisco support. Additionally, Cisco post-warranty support features are available for both plant and field install on the MDS 9120 and 9140, and provide up to two years, 24 x 7 on-site Cisco support beyond the first-year warranty period.

Key prerequisites

For a complete list of Cisco switches and directors that are designed to provide Fibre Channel connectivity support, refer to the **Supported servers and storage systems** section.

Planned availability date

May 7, 2004

At a glance

Cisco MDS 9120 and 9140 enhancements include:

- The Fabric Manager Server (FMS) Package Bundle extends Cisco Fabric Manager to help historical performance data collection for network traffic hot-spot analysis, centralized management services and support for advanced application integration.
- Individual Course Wavelength Division Multiplex (CWDM) fiber optic transceiver features that are orderable on Cisco MDS 9120 and 9140 Fabric Switches for extended distance connections, while allowing customers to add CWDM mux capability when necessary.
- Cisco enhanced warranty upgrade and post-warranty support optional features available for Cisco MDS 9120 and 9140 fabric switches resold under the IBM 2061 machine type.
- New Cabinet Jumper Power Cord to facilitate rack integration.

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM TotalStorage SAN Switch Models H08 and H16 expand entry and mid-range Fibre Channel Storage into high volume easy to configure channel

Announcement Letter 104-152, Dated April 27, 2004

Overview

The TotalStorage® SAN Switch H08 (2005-H08) and H16 (2005-H16) deliver next-generation performance and function for Fibre Channel SANs, including:

- 1 and 2 Gbit/sec autosensing capability
- Full forward- and backward-compatibility with other members of the IBM TotalStorage SAN Switch family
- Improved affordability and ease of management

The **TotalStorage SAN Switch H08** is designed for entry-level SAN applications with eight Fiber Channel ports, four shortwave fiber optic transceivers, a single fixed power supply, rack-mounted Power Distribution Unit (PDU) jumper cord, and fans in 1U rack height.

The **TotalStorage SAN Switch H16** is designed for mid-range and small to medium business (SMB) SAN applications with 16 Fiber Channel ports, eight shortwave fiber optic transceivers, dual fixed power supplies, two rack-mounted PDU jumper cords, and fans in 1U rack height. The base H16 SAN Switch includes Fabric Watch, an intelligent fabric monitor, to help improve performance, identify, and isolate potential faults to optimize fabric-wide performance.

Several optional features are available for both models, including:

- Full Fabric Activation — supports connection to the maximum supported number of switches in a fabric, E_Port Inter Switch Link (ISL) function on all local switch ports. This feature will also provide the Fabric Watch capability when ordered for the SAN Switch H08.
- Extended Fabric Activation — increases ISL buffer credits to support disaster tolerance

solutions with up to 70 Km distance between sites.

- Fabric Manager V4 Maximum Supported Domains — simplifies management of up to eight fabrics and enhances security management, additional RAS features, and call-home capabilities.
- Performance bundle activation — supports ISL-Trunking with each trunk consisting of up to four links, and up to 8 Gb per second bandwidth, as well as support for performance monitoring tools for measuring end-to-end activities.
- Advanced Security Activation — enables policy-based security mechanisms integrated within Fabric Operating System.

Key prerequisites

The TotalStorage SAN Switch family supports Fibre Channel connectivity for servers and storage.

For a list of supported servers and storage systems, refer to the **Description** section.

Planned availability date

May 7, 2004

At a glance

- Full forward- and backward-compatibility with all TotalStorage SAN Switch models, more affordable and easier to manage
- IBM SAN Switch H08 designed for entry-level SAN applications
 - Eight Fiber Channel ports
 - Four shortwave fiber optic transceivers
 - Connection to one other SAN Switch
 - Support for optional full-fabric activation
- IBM SAN Switch H16 designed for mid-range SAN applications
 - 16 Fiber Channel ports
 - Eight shortwave fiber optic transceivers
 - Connection to up to three other SAN Switches
 - Support for optional full-fabric activation
- Additional optional functions:
 - Fabric Manager V4 maximum supported domains
 - Remote Switch Activation
 - Extended Fabric Activation
 - Performance Bundle Activation
 - Advanced Security Activation

For ordering, contact:

Your IBM representative or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM TotalStorage SAN Switch Models H08 and H16 expand entry and mid-range Fibre Channel Storage

Announcement Letter 104-153, Dated April 27, 2004

Overview

The TotalStorage® SAN Switch H08 (2005-H08) and H16 (2005-H16) deliver next-generation performance and function for Fibre Channel SANs, including

- 1 and 2 Gbit/sec autosensing capability
- Full forward and backward compatibility with other members of the TotalStorage SAN Switch family
- Improved affordability and ease of management

The base function for H08 and H16 switch models includes Web tools, advanced zoning, and hot code activation standard in Fabric Operating System (OS) 4.2.

The **TotalStorage SAN Switch H08** is designed for entry-level SAN applications with eight Fiber Channel ports, four shortwave fiber optic transceivers, a single fixed power supply, rack-mounted Power Distribution Unit (PDU) jumper cord, and fans in 1 U rack height. The base H08 switch function supports one connection to one other IBM SAN Switch in a two-switch fabric, as well as support for optional full-fabric activation.

The **TotalStorage SAN Switch H16** is designed for mid-range and small to medium business (SMB) SAN applications with 16 Fiber Channel ports, eight shortwave fiber optic transceivers, dual fixed power supplies, two rack-mounted PDU jumper cords, and fans in 1 U rack height. The base H16 SAN Switch includes Fabric Watch, an intelligent fabric monitor, to help improve performance, identify, and isolate potential faults to optimize fabric-wide performance. The base H16 switch function supports connection to other TotalStorage SAN switches in a four-switch fabric plus support for optional full-fabric activation.

Several optional features are available for both models, including:

- Full Fabric Activation — supports connection to the maximum supported number of switches in a fabric, E_Port Inter Switch Link (ISL) function on all local switch ports. This feature will also provide the Fabric Watch capability when ordered for the SAN Switch H08.
- Extended Fabric Activation — increases ISL buffer credits to support disaster tolerance solutions with up to 70 Km distance between sites.
- Fabric Manager V4 Maximum Supported Domains — simplifies management of up to eight fabrics and enhances security management, additional RAS features, and call-home capabilities.
- Performance bundle activation — supports ISL-Trunking with each trunk consisting of up to four links, and up to eight Gbit/sec bandwidth, as well as support for performance monitoring tools for measuring end-to-end activities.
- Advanced Security Activation — enables policy-based security mechanisms integrated within Fabric Operating System.

Key prerequisites

The TotalStorage SAN Switch family supports Fibre Channel connectivity for servers and storage.

For a list of supported servers and storage systems, refer to the **Description** section.

For specific availability dates, configuration options, server models, operating systems levels, and attachment capabilities, consult the Web at

<http://www.ibm.com/storage/FCSwitch>

At a glance

- Full forward and backward compatibility with all TotalStorage SAN Switch models, more affordable, and easier to manage
- IBM SAN Switch H08 designed for entry-level SAN applications
 - Eight Fiber Channel ports
 - Four shortwave fiber optic transceivers
 - Connection to one other SAN Switch
 - Support for optional full-fabric activation
- IBM SAN Switch H16 designed for mid-range SAN applications
 - 16 Fiber Channel ports
 - Eight shortwave fiber optic transceivers
 - Connection to up to three other SAN Switches
 - Support for optional full-fabric activation
- Additional optional functions:
 - Fabric Manager V4 maximum supported domains
 - Remote Switch Activation
 - Extended Fabric Activation
 - Performance Bundle Activation
 - Advanced Security Activation

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

Planned availability date

May 7, 2004

IBM TotalStorage Ultrium Tape 2U Autoloader 3581 Models L28 and F28 incorporate the IBM TotalStorage LTO Ultrium 2 Tape Drive doubling capacity and performance

Announcement Letter 104-155, Dated April 27, 2004

Overview

The new **IBM TotalStorage® Ultrium Tape 2U Autoloader 3581 Models L28 and F28** offer high capacity, performance, and technology designed for the midrange open systems environment. These models incorporate a single Linear Tape-Open (LTO) IBM TotalStorage Ultrium 2 Tape Drive, which more than doubles tape drive performance over the previous generation LTO Ultrium 1 Tape Drives (Ultrium 1), up to 35 MB/sec native data transfer rate (70 MB/sec with 2:1 compression). In addition, with the use of the new IBM TotalStorage LTO Ultrium 200 GB Data Cartridge, the Ultrium 2 Tape Drive has the capability of writing twice as much data, up to 200 GB native capacity (400 GB with 2:1 compression). IBM Ultrium 2 Tape Drives can read and write original LTO Ultrium Data Cartridges at original Ultrium 1 capacities and with an improved performance of up to 20 MB/sec native data transfer rate (40 MB/sec with 2:1 compression). The Model L28 comes with a LVD Ultra160 SCSI attachment, while the Model F28 comes with a Native Switched Fabric 2 Gbps Fibre Channel attachment, for connection to a wide spectrum of open systems servers.

The Ultrium Tape 2U Autoloader 3581 is an external 2U stand-alone or rack-mountable unit that incorporates a single IBM LTO Ultrium 2 tape drive. The Ultrium Tape 2U Autoloader 3581 capacity is eight tape cartridges, providing a media capacity of up to 1.6 TB (3.2 TB with 2:1 compression) data storage per unit.

Other Ultrium 2 Tape Drive functions include:

- Digital speed matching — to adjust the drive data rate with the host, which reduces backhitching and improves throughput performance
- Power management — to reduce power consumption
- Channel calibration — to customize each read/write data channel for optimum performance
- Separate writing of multiple filemarks — to improve performance when writing multiple files
- Larger internal buffer — the internal buffer size is 64 MB, double the buffer size of the Ultrium 1 drives
- Faster drive speeds — faster data access time, reduced rewind time, reduced cartridge load time, and faster cartridge fill time compared to the Ultrium 1 drives

Key prerequisites

Appropriate levels of host software are required to attach the Ultrium Tape 2U Autoloader 3581 with IBM LTO Ultrium 2 Tape Drives to selected IBM @server iSeries™, AS/400®, IBM @server pSeries®, RS/6000®, RS/6000 SP™, IBM @server xSeries®, Netfinity®, HP, Sun, Windows™ 2000, Windows 2003, Linux, and other UNIX® and PC servers. Refer to the **Technical information** section for details.

Planned availability date

May 7, 2004

At a glance

The Ultrium Tape 2U Autoloader 3581 combines IBM tape and automation reliability at open systems prices. The new Models L28 and F28 support entry level unattended backup, open systems attachment flexibility, enhanced capacity and performance, and include:

- LVD (Model L28) and HVD (Model L28 with HVD Converter Kit option), Native Switched Fabric 2 Gbps Fibre Channel (Model F28)
- LTO Ultrium 2 native data capacities up to 1.6 TB (up to 3.2 TB using 2:1 compression) with eight cartridge slots
- Use of LTO Ultrium 2 Tape Drive with a drive data rate of 70 MB/second (2:1 data compression)
- Optional bar code reader and/or remote management unit
- Sequential or random access
- Stand-alone or rack-mount kit

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM TotalStorage Ultrium Tape 2U Autoloader 3581 Models L28 and F28 stores more data

Announcement Letter 104-156, Dated April 27, 2004

Overview

The new **IBM TotalStorage® Ultrium Tape 2U Autoloader 3581 Models L28 and F28** offer high capacity, performance, and technology designed for the midrange open systems environment. These models incorporate a single Linear Tape-Open (LTO) IBM TotalStorage Ultrium 2 Tape Drive, which more than doubles tape drive performance over the previous generation LTO Ultrium 1 Tape Drives (Ultrium 1), up to 35 MB/sec native data transfer rate (70 MB/sec with 2:1 compression). In addition, with the use of the new IBM TotalStorage LTO Ultrium 200 GB Data Cartridge, the Ultrium 2 Tape Drive has the capability of writing twice as much data, up to 200 GB native capacity (400 GB with 2:1 compression). IBM Ultrium 2 Tape Drives can read and write original LTO Ultrium Data Cartridges at original Ultrium 1 capacities and with an improved performance of up to 20 MB/sec native data transfer rate (40 MB/sec with 2:1 compression). The Model L28 comes with a LVD Ultra160 SCSI attachment, while the Model F28 comes with a Native Switched Fabric Fibre Channel attachment, for connection to a wide spectrum of open systems servers.

The Ultrium Tape 2U Autoloader 3581 is an external 2U stand-alone or rack-mountable unit that incorporates a single IBM LTO Ultrium 2 tape drive. The Ultrium Tape 2U Autoloader 3581 capacity is eight tape cartridges, providing a media capacity of up to 1.6 TB (3.2 TB with 2:1 compression) data storage per unit.

Other Ultrium 2 Tape Drive functions include:

- Digital speed matching — to adjust the drive data rate with the host, which reduces backhitching and improves throughput performance
- Power management — to reduce power consumption
- Channel calibration — to customize each read/write data channel for optimum performance
- Separate writing of multiple filemarks — to improve performance when writing multiple files
- Larger internal buffer — the internal buffer size is 64 MB, double the buffer size of the Ultrium 1 drives
- Faster drive speeds — faster data access time, reduced rewind time, reduced cartridge load time, and faster cartridge fill time compared to the Ultrium 1 drives

Key prerequisites

Appropriate levels of host software are required to attach the Ultrium Tape 2U Autoloader 3581 with IBM LTO Ultrium 2 Tape Drives to selected IBM @server iSeries™, AS/400®, IBM @server pSeries®, RS/6000®, RS/6000 SP™, IBM @server xSeries®, Netfinity®, HP, Sun, Windows™ 2000, Windows 2003, Linux, and other UNIX® and PC servers. Refer to the **Technical information** section for details.

Planned availability date

May 7, 2004

At a glance

The Ultrium Tape 2U Autoloader 3581 combines IBM tape and automation reliability at open systems prices. The new Models L28 and F28 support entry level unattended backup, open systems attachment flexibility, enhanced capacity and performance, and include:

- LVD (Model L28) and HVD (Model L28 with HVD Converter Kit #3104), Native Switched Fabric 2 Gbps Fibre Channel (Model F28)
- LTO Ultrium 2 native data capacities up to 1.6 TB (up to 3.2 TB using 2:1 compression) with eight cartridge slots
- Use of LTO Ultrium 2 Tape Drive with a drive data rate of 70 MB/second (2:1 data compression)
- Optional bar code reader and/or remote management unit
- Sequential or random access
- Stand-alone or rack-mount option

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM ImageUltra Builder and DeployCenter Library from Symantec – A cost-effective solution to build, manage, and deploy images

Announcement Letter 104-157, Dated April 27, 2004

Overview

The ImageUltra™ Builder V2.0 and DeployCenter Library from Symantec packaged license offering provides a cost-effective solution to build, manage, and deploy images.

The DeployCenter Library from Symantec is an imaging tool that offers flexibility and cuts deployment time in IBM and non-IBM customer environments.

ImageUltra Builder V2.0 for Microsoft™ Windows™ lets you:

- Reduce the need to support multiple images on multiple hardware platforms
- Lessen the time and effort associated with image compatibility hardware testing
- Eliminate the need to rebuild images from scratch and manually install applications
- Combine multiple operating systems and languages into one custom image¹
- Create fully portable object oriented images that work across multiple ThinkPad® and ThinkCentre™ models
- Produce Sysprep portable object oriented images that can be used across supported IBM and non-IBM systems

The imaging tool in DeployCenter Library from Symantec eliminates the need, in most cases, to physically visit the PC for operating system deployments and system refreshes. You can simultaneously set up, configure, and deploy multiple Windows workstations to a new or upgraded operating system. This ability to automate tasks lets you deploy a standard desktop image to hundreds of computer systems in minutes.

More information on how the tools work together is available in a white paper at

<http://www.ibm.com/pc/support/site.wss/MIGR-44316.html>

Notes

- To use the licenses in this solution, a customer must have previously purchased the ImageUltra Builder software and DeployCenter Library software.
- Symantec, not IBM, is solely responsible for the licensing and support of the DeployCenter Library.

Key prerequisites

ImageUltra Builder and DeployCenter Library software must be purchased by the customer prior to the use of the packaged licenses. ImageUltra Builder is available from IBM sales channels and DeployCenter Library is available from a Symantec Distributor.

For information on systems supported, refer to the **Hardware requirements** and **Software requirements** sections.

Availability date

April 30, 2004

¹ Although multiple languages are included in an image, end users can use only one operating system and one language.

At a glance

ImageUltra Builder software lets you streamline image deployment and support processes through the creation of ImageUltra-enabled images. By using ImageUltra Builder together with the imaging tool in DeployCenter Library by Symantec, you can build and deploy ImageUltra images, especially Sysprep portable images, to both IBM and non-IBM systems.

For technical support for ImageUltra Builder:

- For eSupport, submit a question at

<http://www.ibm.com/pc/support/site.wss/onlineassistant/submitAQuestion.vm>

- Call IBM at 800-IBM-SERV (800-426-7378)
- For more information or to place an order for customer support services, call (888-426-4343)

For technical support for DeployCenter Library, contact Symantec at

<http://www.symantec.com/techsupp/>

IBM TotalStorage SAN Switch Family expands enterprise director performance with new Model M14

Announcement Letter 104-159, Dated April 27, 2004

Overview

The IBM TotalStorage® SAN Switch M14 (2109-M14) is designed to deliver next generation enterprise director performance, scalability, flexibility, reliability, and availability. The M14 SAN Director is also designed to provide a single domain with 128-port Fabric Switch functionality, yielding greater scalability with fewer domains, faster Control Processor Blades for low latency Fabric OS services, as well as improved over the previous M12 SAN Director. The M14 SAN Director offers forward- and backward-compatibility with all IBM TotalStorage SAN Switch models, 1 and 2 Gbit/sec auto-sensing capability, as well as Advanced Fabric Services and management tools.

Designed for mid-range to enterprise level SAN applications, the M14 SAN Director includes a minimum of two 16-port 2 Gbit/Sec M14 switch blades, thirty-two fiber optic transceivers, two control processors, dual power supplies, and fans in 14U rack height. Functionality in the M14 SAN Director base model includes the following:

- Full Fabric operation and Universal Port operation on all M14 ports (F_Port, FL_Port, and E_Port)
- FICON™ operation
- Inter Switch Link (ISL) Trunking, Advanced Zoning
- Web tools, Fabric Watch, Performance Monitor
- Fabric OS 4.2, Hot Code Activation

Several optional features are available for the M14 Director, including the following:

- Additional 16-Port 2 Gb M14 Switch Blades and array of fiber optic transceivers

- Fabric Manager V4 (10 Domains) and upgrade to Maximum Supported Domains features to simplify management of up to eight fabrics, and provide enhanced security management, additional RAS features, and call home capabilities
- Extended Fabric activation feature to increase ISL buffer credits to support disaster tolerance solutions with up to 70 km distance between sites
- Advanced Security Activation to enable policy-based security mechanisms integrated within Fabric Operating System
- M14 Director installation into 2109-C36 Cabinet optional features

Key prerequisites

The IBM TotalStorage SAN Switch family supports Fibre Channel connectivity for servers and storage, for a complete list refer to the end of the **Description** section.

For specific availability dates, configuration options, server models, operating systems levels, and attachment capabilities, refer to

<http://www.ibm.com/storage/FCSwitch>

Planned availability dates

May 7, 2004

FCP support planned availability:
May 7, 2004

FICON support planned availability:
June 4, 2004

At a glance

The new IBM TotalStorage SAN Switch M14 is designed to provide:

- Next generation enterprise director performance, scalability, flexibility, reliability, availability, and full compatibility with IBM SAN Switches
- 32- to 128-port Fabric Switch with single domain for greater scalability, faster Control Processor Blades for low latency Fabric Services, and improved performance
- 1 and 2 Gbit/sec auto-sensing capability, Full Fabric operation and Universal Port operation on all M14 ports (F_Port, FL_Port, and E_Port)
- M14 SAN Director base model includes FICON operation, Inter Switch Link (ISL) Trunking, Advanced Zoning, Web Tools, Fabric Watch, Performance Monitor, and Hot Code Activation
- M14 SAN Director optional features include Fabric Manager V4 (10 Domains), Fabric Manager V4 upgrade to Max Supported Domains, Extended Fabrics, and Advanced Security

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

IBM Migration Utility for z/OS V2.1 improves usability when creating standard COBOL reports

Announcement Letter 204-074, Dated April 27, 2004

Overview

The IBM Migration Utility for z/OS® creates standard COBOL reports from CA-Easytrieve Plus language statements, without CA-Easytrieve Plus installed, and which run in place of the CA-Easytrieve Plus run-time interpreter. These applications can then be modified, maintained, and enhanced via standard COBOL programming.

The Migration Utility can be used to replace CA-Easytrieve Plus for existing reports, to modify or enhance converted reports using CA-Easytrieve Plus language, or to create new reports using the CA-Easytrieve Plus language.

In addition to cost savings, the use of the Migration Utility offers:

- Easy extensibility to CA-Easytrieve Plus reports via standard COBOL programming
- Improved performance in I/O searching, sorting, and the ability to port CA-Easytrieve Plus applications to any platform with a supported COBOL compiler including AIX® and OS/400® (subject to any limitations that compiler has)

Supported file types include:

- Virtual Storage Access Method (VSAM)
- Queued Sequential Access Method (QSAM)
- Sequential Access Method (SAM)
- DB2® (Native and Ca-Easytrieve Plus mode)
- IMS™ (DL 1) Database
- Tape files and unit record devices

Key prerequisites

Refer to the **Hardware requirements** and **Software requirements** sections.

Planned availability date

April 30, 2004

At a glance

New in V2.1:

- Addition of several utilities to improve usability, including:
 - Discovery and staging
 - Batch conversion
 - Parallel testing
 - Electronic output comparison
- Syntax enhancements
- Ability to perform a single-step job execution
- Dynamic allocation of print, temporary, sort-work, and virtual files at run time
- Support for IMS (DL1) databases
- Support for Double Byte Character Set (DBCS) languages

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: LE001

IBM Self Checkout Application extends IBM's product line to support a complete line of IBM self checkout hardware products

Announcement Letter 204-076, Dated April 27, 2004

Overview

Intuitive and easy-to-use, the IBM Self Checkout solution offers a flexible and complete line of self checkout products that help provide the convenience consumers crave and reliability retailers need. Designed to work well in virtually any store format, these secure, reliable self checkout systems can help improve customer satisfaction, build loyalty, and meet the growing demand for fast self service. Versatile design options meet a wide range of store-specific requirements and allow retailers to choose the right solution to help optimize total capacity and maximize ROI.

The IBM Self Checkout solution strengthens IBM's leadership in retail store solutions and bolsters IBM's Retail on Demand capabilities and strategy by adding an integrated approach that will help customers run their businesses more efficiently. IBM Self Checkout will also improve the shoppers' in-store experience by enabling fast, reliable checkouts. This IBM Self Checkout product line, including the IBM Self Checkout Application, is the perfect extension of the Retail Store Solutions store integration framework. The IBM Self Checkout solution is designed to be able to interface and integrate with kiosks, POS, electronic marketing, handhelds, and other devices as part of the total store infrastructure.

The IBM Self Checkout Application will support the IBM SurePOS™ system hardware to provide a reliable environment with flexible, open configurations. With comprehensive implementation programs and global service and support, IBM can be your single source for superior self checkout solutions.

Key prerequisites

- IBM Self Checkout System for Full-Lane (Model 170), Express plus (Model 150), and Express (Model 130) (refer to Hardware Announcement 104-139, dated April 27, 2004)
- Integrated Technology Service (ITS) Self Checkout service package including:
 - Training
 - Maintenance
 - Project Management

Planned availability date

June 25, 2004

At a glance

IBM Self Checkout Application provides the ability to offer retail-hardened, flexible self checkout options to retailers. Flexibility of the software design provides:

- A consistent user interface across all self checkout options: Full-Lane, Express plus, and Express
- The ability to run with customer-supplied peripherals
- An interface with current IBM 4690 POS applications and selected non-IBM POS applications
- Support of POS support devices and functionality
- Support for optional remote attendant device, allowing remote monitoring and control of (some) lane functions, including age verification and error messaging
- Comprehensive monitoring and reporting functions
- The ability to provide consumers with the functionality that can be found at a cashier-operated checkout lane
- The ability for retailers to personalize their self checkout user interface by incorporating custom logos and greetings
- Easy-to-understand shopper assistant prompting for easier store-level associate training
- Easy-to-understand consumer prompting for quick consumer acceptance
- Patented non-barcoded item processing using colorful icons
- A wide range of built-in security features, including an option that combines weight and dimensional verification for each individual item

Changes for Red Hat Enterprise Linux AS 3 for IBM **@server** pSeries

Announcement Letter 204-077, Dated April 27, 2004

Overview

You can now order the Red Hat Enterprise Linux AS 3 (RHEL 3) with all pSeries® POWER4+™ systems.

Linux-only orders for the p655 require the eServer® Standalone Diagnostics on media or on the network for diagnostics and support.

For pSeries systems supporting LPAR, RHEL 3 may be installed in an LPAR. This gives you the flexibility to select/use another supported operating system (such as AIX®) in another LPAR allowing a better systems fit in your mixed mode environments.

IBM will take the order and have the media shipped to you. You may also order additional licenses, as required, for your hardware processor upgrades.

Software upgrades and maintenance will be provided directly by Red Hat.

For more information, visit

<http://www.redhat.com/software/>

Planned availability date

April 30, 2004

For ordering, contact:

Your IBM representative or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

Trademarks

POWER4+ is a trademark of International Business Machines Corporation in the United States or other countries or both.

The e-business logo, pSeries, eServer, and AIX are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Other company, product, and service names may be trademarks or service marks of others.

IBM server pSeries System Program Order simplifies AIX software supply features ordering

Announcement Letter 204-078, Dated April 27, 2004

Overview

To reduce the complexity of ordering AIX®/pSeries® software, a single ordering method will now be used to order all supply features, such as product media and software maintenance, for AIX/pSeries initial orders and upgrades. Previously, supply features for some products were ordered under the licensed product (for example, 5765-F83) whereas others were ordered under the Software Maintenance (SWMA) product number (for example, 5771-AIX, 5771-SUB).

All supply features will now be ordered under the current pSeries System Program Order (SPO), 5692-A5L.

A supply feature is a four-character numeric or alpha/numeric representation of a specific AIX/pSeries operating system or licensed product software deliverable. Refer to Software withdrawal 904-079, dated April 27, 2004, for IBM Licensed Products, Software Maintenance, ITS, and Bonus Pack supply features.

Key prerequisites

One of the following operating systems, as required:

- AIX 5L for POWER™ V5.1 or V5.2, or later
- SUSE LINUX Enterprise Server
- Red Hat Linux

Planned availability date

April 27, 2004

For ordering, contact:

Your IBM representative or the Americas Call Centers at

800-IBM-CALL

Reference: RE001

Trademarks

POWER is a trademark of International Business Machines Corporation in the United States or other countries or both.

AIX, the e-business logo, and pSeries are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Other company, product, and service names may be trademarks or service marks of others.

Restructured pricing for IBM Software Maintenance for AIX Operating Systems

Announcement Letter 204-079, Dated April 27, 2004

Overview

Newly configured IBM *@server* pSeries® systems with an AIX® operating system will include the restructured Software Maintenance (SWMA) for AIX Operating Systems when AIX is designated as running on the active processors. This support is also available for customers with existing AIX operating system licenses.

SWMA continues to offer:

- Software upgrade entitlement within the coverage period for eligible AIX operating system software
- Access to IBM remote technical software support
- Processor-based pricing for renewals that is based on the number of active processors running AIX per system
- Entitlement beginning with your new pSeries hardware installation date
- Coverage options of one year or three years

All newly configured pSeries servers with an AIX operating system selected come standard with a minimum of one year of SWMA. A three-year coverage option is also available and will be the default for orders placed in the configurator.

The restructured SWMA uses a single program number for managing either the one-year or three-year coverage options. The restructured SWMA replaces the existing SWMA offerings (5771-SUB, 5773-SUB, 5771-SPT, and 5773-SPT).

All SWMA orders created on or after April 27, 2004, will follow the new program number offering structure (5771-SWM and 5773-SM3).

The components (technical support and software subscription) that make up SWMA will not generally be offered separately.

Requests for clarification or special requests related to the separate components, content, or pricing of Software Maintenance for AIX should be directed through the Regional/Country SBO organization.

Key prerequisites

AIX 5L for POWER™ V5.1 or V5.2, or later

Availability date

April 27, 2004

Trademarks

POWER is a trademark of International Business Machines Corporation in the United States or other countries or both.
AIX, the e-business logo, and pSeries are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Other company, product, and service names may be trademarks or service marks of others.

At a glance

Software Maintenance for AIX Operating Systems offers:

- A single program number for managing either the one-year or three-year coverage options
- Access to IBM remote technical software support
- Software upgrade entitlement within the coverage period for eligible AIX operating systems

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: RE001

Revised availability: DB2 Administration Tool for z/OS, V5 and DB2 Object Comparison Tool for z/OS, V3 will not ship *(summary only announcement)*

Announcement Letter 204-080, Dated April 27, 2004

Overview

DB2® Administration Tool for z/OS®, V5 (5697-K90) and DB2 Object Comparison Tool for z/OS, V3 (5697-K40) will not be made available on April 30, 2004, as announced in Software Announcement 204-030, dated March 2, 2004.

New availability dates will be established at a later date.

Trademarks

DB2 and z/OS are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Other company, product, and service names may be trademarks or service marks of others.

Red Hat Enterprise Linux AS for iSeries now available with your iSeries System order

Announcement Letter 204-081, Dated April 27, 2004

Overview

When you order an IBM [®]server iSeries™ server or a processor upgrade, you can also order Red Hat Enterprise Linux AS 3 for iSeries through IBM at the same time.

Software upgrades, support, and maintenance are provided directly by Red Hat.

Key prerequisites

OS/400® V5R2

Planned availability date

April 30, 2004

IBM Lotus Notes and Domino Web Access Limited Use offerings

Announcement Letter 204-082, Dated April 27, 2004

Overview

IBM customers using Lotus Notes® or Domino™ Web Access V6.5 (or greater) who have an active maintenance contract, will be entitled to a restricted use license of IBM Lotus® Instant Messaging and Web Conferencing (formerly Sametime®) with no additional purchase. This entitlement will allow customers to add presence awareness or instant messaging into any Domino based application, such as e-mail, discussion databases, or customer applications.

This entitlement does not provide the entire feature set or the complete business value that the full IBM Lotus Instant Messaging and Web Conferencing solutions provide. To receive the full benefits, many customers purchase both Lotus Notes and Domino, as well as IBM Lotus Instant Messaging and Web Conferencing.

For those customers who are not planning on taking advantage of the new features of this entitlement, IBM is introducing four new SKUs, without restricted use entitlement, that may be purchased at renewal time.

IBM customers using IBM Lotus Enterprise Integrator™, are not entitled to a restricted use license of IBM Lotus Instant Messaging and Web Conferencing (formerly Sametime). IBM Lotus Enterprise Integrator is included in this announcement only because it is a standard component of IBM Lotus Domino announcements.

IBM Lotus Domino V6.5 and V6.5.1 do not support the Red Hat 7.2 platform as previously stated in the following announcement letters:

- Software Announcement 204-015, dated February 3, 2004.
- Software Announcement 203-253, dated September 23, 2003.

Availability date

The new license options will be available for ordering April 27, 2004.

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

Price changes: Red Hat Enterprise Linux AS 3

Announcement Letter 304-059, Dated April 27, 2004

Overview

Today, IBM announces decreases in one-time charges on Red Hat Enterprise Linux AS 3.

Decreased one-time charges will apply to those programs whose charges become due on or after April 27, 2004.

IBM Tivoli Monitoring for Transaction Performance education promotion (expires September 30, 2004)

Announcement Letter 304-060, Dated April 27, 2004

The offer

For a limited time only, you can receive an IBM education coupon valued at \$1,500 USD (\$2,085 CAD) at no additional charge for every \$25,000 USD (\$34,725 CAD) Suggested Volume Price (SVP) of qualifying IBM Tivoli® Monitoring for Transaction Performance software licenses acquired in a single transaction.

The no-charge education coupons are redeemable for attendance of one individual at a single eligible public course offered by IBM IT Education Services. The coupon value cannot be allocated to more than one course. Any remaining value on the coupon is forfeited.

For a list of qualifying and eligible products, refer to the **Qualifying/Eligible products** section.

Start and/or end dates

Orders must be received by IBM on or before September 30, 2004, by calling 800-426-2255. Software entitlement (date of purchase) must occur on or after April 27, 2004, but no later than September 30, 2004. Eligible courses must be completed on or before December 31, 2004.

Information about this promotion can be obtained through ibm.com by visiting one of the following Web sites:

- In the United States

<http://www.ibm.com>

Click on Products & services and enter SAOCA1492 in the NavCode™ window.

- In Canada

<http://www.ibm.ca>

Click on Special/Advertised Offers.

Where is it available?

This promotion is available only in:

- The United States (including Puerto Rico)
- Canada

This promotion is not available in Caribbean North countries.

If you are a U.S. commercial, state and local government, or education customer, you can participate. If you are a U.S. federal government customer, call 800-333-6705 to determine eligibility.

Price changes: IBM @server iSeries selected feature conversions

Announcement Letter 304-061, Dated April 27, 2004

Overview

Today, IBM announces decreases in purchase prices on selected IBM @server iSeries™ features conversions.

The new, lower purchase prices are effective April 27, 2004.

Price changes: Selected IBM TotalStorage SAN product features

Announcement Letter 304-062, Dated April 27, 2004

Overview

Today, IBM announces increases in purchase prices on selected IBM TotalStorage® SAN product features.

The new, higher purchase prices are effective April 27, 2004.

Price changes: Selected Cisco storage product features

Announcement Letter 304-063, Dated April 27, 2004

Overview

Today, IBM announces increases in purchase prices on selected Cisco storage product features.

The new, higher purchase prices are effective April 27, 2004.

IBM @server zSeries 890 Technology Upgrade Option

Announcement Letter 304-064, Dated April 27, 2004

The offer

The IBM @server zSeries® 890 Technology Upgrade Option on IBM Global Financing (IGF) 30 or 36 month fair market value (FMV) leases can provide you with the ability to increase the capacity, functionality, and/or performance of your qualifying z890 server during its lease term with little or no impact on your monthly payments.

By extending the term of the original lease by either 30 or 36 months from the date of the upgrade acquisition, depending upon the term of the original contract, your new monthly payments will either remain equal to your original payments, or will increase based upon the upgrade Purchase Price Financed and the point in time when you exercise your upgrade option as follows:

30-month base lease upgrade after x months	36-month base lease upgrade after x months	Upgrade Purchase Priced Financed percentage*	Increase in monthly payment
15 months	18 months	up to 20% over 20%, up to 25% over 25%, up to 35%	none 10% 20%
21 months	24 months	up to 30% over 30%, up to 35% over 35%, up to 45%	none 10% 20%

* the upgrade Purchase Price Financed, expressed as a percentage of the base machine Purchase Price Financed

For a list of qualifying products and eligible upgrades, refer to the **Qualifying/Eligible products** section.

Start and/or end dates

In the United States, the Term Lease Master Agreement for the qualifying z890 server must be signed on or after April 7, 2004.

In Canada, the IBM Customer Agreement (ICA) for the qualifying z890 server must be signed on or after April 7, 2004.

Where is it available?

This offering is available only in:

- United States (including Puerto Rico)
- Canada
- Caribbean North countries

Hardware withdrawal: IBM 3580 Ultrium Tape Drive selected models and features – Replacements available

Announcement Letter 904-074, Dated April 27, 2004

Overview

Effective July 30, 2004, IBM will withdraw from marketing the IBM 3580 Ultrium Tape Drive Models L11 and H11 and selected features. On or after the effective date of withdrawal, you can no longer order these products directly from IBM or an IBM Authorized Distributor. You can obtain these features on an as-available basis through IBM and IBM Business Partner Channels.

For details refer to the **Affected products** section.

Replacement product information

Withdrawn product	Replacement product
3580 Model L11	3580 Model L13 or L23
3580 Model H11	3580 Model H13 or H23

For additional information, refer to Hardware Announcement 102-240, dated September 3, 2002.

Hardware withdrawal: Selected models and features of the IBM TotalStorage Ultrium Scalable Tape Drive 3583 and the IBM TotalStorage UltraScalable Tape Library 3584 – Replacement available

Announcement Letter 904-075, Dated April 27, 2004

Overview

Effective October 1, 2004, IBM will withdraw from marketing selected features of the IBM TotalStorage® Ultrium Scalable Tape Drive 3583 and the IBM TotalStorage UltraScalable Tape Library 3584 Models L32 and D32 and selected features. Refer to the **Affected products** section for details. On or after the effective date of withdrawal, you can no longer order these features directly from IBM or an IBM Authorized Distributor. Model conversions, machine upgrades, field-installed features associated with the machine types not listed in this announcement continue to be available.

Replacement product information: The Ultrium 1 tape drive features have been replaced with Ultrium 2 tape drive features.

For additional information, refer to:

- Hardware Announcement 100-238, dated August 23, 2000
- Hardware Announcement 101-168, dated June 12, 2001
- Hardware Announcement 103-121, dated May 6, 2003
- Hardware Announcement 100-237, dated August 23, 2000
- Hardware Announcement 103-171, dated June 3, 2003
- Hardware Announcement 101-041, dated February 20, 2001
- Hardware Announcement 103-004, dated January 28, 2003
- Hardware Announcement 104-135, dated April 27, 2004

Hardware withdrawal: IBM TotalStorage Ultrium Tape Autoloader 3581 Model L23 for HVEC Stores – Replacement available *(summary only announcement)*

Announcement Letter 904-076, Dated April 27, 2004

Overview

Effective July 30, 2004, IBM is withdrawing the IBM TotalStorage® Ultrium Tape Autoloader 3581 Model L23 for HVEC Stores and all options.

On or after the effective date of withdrawal, you can no longer order these products directly from IBM or an IBM Authorized Distributor. You can obtain these products on an as-available basis through IBM and IBM Business Partner Channels.

Description	Machine type	Model	Part number
Ultrium 2 LVD Tape Autoloader 3581 with US/CAN standard 110V power cord 6952301	3581	L23	18P9187
Ultrium 2 LVD Tape Autoloader 3581 with US/CAN 250V power cord 1838574	3581	L23	18P9518
Ultrium 2 LVD Tape Autoloader 3581 with Uruguay power cord 38L8880	3581	L23	18P9520
Ultrium 2 LVD Tape Autoloader 3581 with Italy power cord 14F0069	3581	L23	18P9208

Replacement product information

Withdrawn product	Replacement product
3581 L23 (18P9187)	3581 L28 (3581L28)

For additional information, refer to Hardware Announcement 104-155, dated April 27, 2004.

Trademarks

TotalStorage is a registered trademark of International Business Machines Corporation in the United States or other countries or both.

Other company, product, and service names may be trademarks or service marks of others.

Hardware withdrawal: IBM Token Ring Adapter from IBM SurePOS 700 Series *(summary only announcement)*

Announcement Letter 904-077, Dated April 27, 2004

Overview

Effective July 30, 2004, IBM will withdraw from marketing the following products. On or after that date, you can no longer order these products directly from IBM or an IBM Authorized Distributor. You can obtain the products on an as-available basis through IBM Business Partners.

Description	Machine type	Model	Feature number
Token Ring 16/4 PCI Palm VI	4800	721, 741, C41, 781, S21, S41, S81	7462
Token Ring 16/4 PCI Palm VI	4611	048	7462
Cash Drawer Mounting Bracket	4611	048	4725

Replacement product information: None

Developer Relations withdrawal: Dimensional Insight Family of Products *(summary only announcement)*

Announcement Letter 904-078, Dated April 27, 2004

Overview

Effective June 1, 2004, IBM will withdraw from marketing the following products under the Developer Marketing Partnerships-Remarketing Software program:

Description	Program number
DI — DiveMaster Developer Kit	5620-CKU
DI — Diver	5620-CKV
DI — WebDiver	5620-CKW
DI — ReportDiver	5620-CKX
DI — Atlantis	5620-FEZ
DI — Discovery	5620-FFA
DI — Diver	5620-FFB
DI — Model Splitter	5620-FFC
DI — Detail Builder	5620-FFD
DI — Extranet Enabler	5620-FFE
DI — Broadcast	5620-FFF

This withdrawal applies to the IBM Developer Marketing Partnership relationship only. Other relationships between Dimensional Insight, Inc., and IBM, both in the U.S. and worldwide, are unaffected.

Replacement product information: None

For information regarding this product, contact Dimensional Insight, Inc., at 781-229-9111.

Software withdrawal: IBM licensed programs, Software Maintenance, IBM Technical Support for SWMA, and AIX 5L Bonus Pack supply features – Replacements available

Announcement Letter 904-079, Dated April 27, 2004

Overview

Effective April 27, 2004, IBM will withdraw from marketing the supply features for IBM licensed programs, Software Maintenance, IBM Technical Support for SWMA, and the AIX® 5L Bonus Pack listed in the **Supply feature withdrawals** section.

Also, effective April 27, 2004, IBM will withdraw from marketing the billing features for SWMA for AIX Software Subscription and SWMA for AIX Software Support listed in the **Billing feature withdrawals** section.

Replacement product information: All of the withdrawn features are replaced with new supply or billing features under the current IBM @server pSeries® System Program Order (SPO), 5692-A5L.

Withdrawn program	Replacement program
SWMA for AIX Software Subscription (5771-SUB, 5773-SUB)	SWMA for AIX, 1 yr (5771-SWM)
SWMA for AIX Software Support (5771-SPT, 5773-SPT)	SWMA for AIX, 3 yr (5773-SW3)

The withdrawn priced features and products in this announcement are replaced with new SWMA offerings.

For additional information, refer to Software Announcement 204-079, dated April 27, 2004.

Hardware withdrawal: IBM 7316-TF2 and selected 7316 features – Replacements available

Announcement Letter 904-080, Dated April 27, 2004

Overview

Effective July 27, 2004, IBM will withdraw from marketing the products listed in the **Product withdrawals** section. On or after July 27, 2004, you can no longer order these products directly from IBM. You may obtain the products on an as-available basis through IBM Business Partners.

Replacement product information

Withdrawn product	Replacement product
7316-TF2	7316-TF3

Withdrawn feature number	Replacement feature number
6050	6350
6051	6351
6052	None
6053	6353
6054	6354
6055	6355
6056	6356
6057	6357
6058	6358
6059	None
6060	None
6061	6361
6062	None
6063	6363
6064	None
6065	None

Refer to Hardware Announcement 104-145, dated April 27, 2004, for additional information.

End of service: Selected IBM WebSphere programs *(summary only announcement)*

Announcement Letter 904-081, Dated April 27, 2004

Overview

End of service for the following products is effective on April 30, 2005:

Description	Program number
WebSphere® Application Server, Advanced Edition for Multiplatforms V4.0	5630-A22
WebSphere Application Server, Advanced Single Server Edition for Multiplatforms V4.0	5630-A23
WebSphere Application Server, Advanced Developer Edition V4.0	5724-B38
WebSphere Application Server V4.0, Advanced Edition for Linux on zSeries®	5724-B61
WebSphere Application Server V4.0, Advanced Edition for iSeries™	5733-WA4
WebSphere Application Server V4.0, Advanced Single Server Edition for iSeries	5733-WS4
WebSphere Edge Server V2.0 for Multiplatforms	5724-A16
WebSphere Application Server Enterprise Edition V4.1	5630-A30
WebSphere Application Server Enterprise Edition Development RunTime V4.1	5724-B46
WebSphere Studio Application Developer for Linux and Windows™, V4.0	5724-B39
WebSphere Studio Site Developer Advanced for Windows, V4.0	5724-B54
WebSphere Studio Application Developer Integration Edition for Windows, V4.1	5724-B75
WebSphere Application Server V4.0.1 for z/OS® and OS/390®	5655-F31

End of service for IBM Macromedia ColdFusion MX for WebSphere Application Server (5724-D28) is effective on September 30, 2005.

As previously announced, program support for the TXSeries™ function of WebSphere Application Server Enterprise Edition V4.1 ended March 31, 2003.

Trademarks

iSeries and TXSeries are trademarks of International Business Machines Corporation in the United States or other countries or both.
WebSphere, zSeries, OS/390, and z/OS are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Windows is a trademark of Microsoft Corporation.
Other company, product, and service names may be trademarks or service marks of others.

Hardware withdrawal: Selected IBM @server xSeries servers – Replacements available

Announcement Letter 904-082, Dated April 27, 2004

Overview

Effective May 28, 2004, IBM will withdraw from marketing the machine types and associated models listed in the **Product withdrawals** section. After that date, you can no longer obtain these products directly from IBM.

These xSeries® products, however, may be obtained on an as-available basis through IBM Business Partners, resellers, or PC distributors.

Replacement product information

Withdrawn product name	Replacement product name	Replacement product part number
xSeries 205	xSeries 206	8482
xSeries 225	xSeries 225	864962X, 86496AX
xSeries 235	xSeries 235	867161X, 86716AX
eServer® 325	eServer 325	883531X, 883532X
xSeries 365	xSeries 365	88624RX, 88625RX, 88626RX
xSeries 445	xSeries 445	887051X, 887052X

For additional information on replacement products, refer to

- Hardware Announcement 103-039, dated January 29, 2003
- Hardware Announcement 103-218, dated August 5, 2003
- Hardware Announcement 104-007, dated December 30, 2003
- Hardware Announcement 104-059, dated February 10, 2004
- Hardware Announcement 104-078, dated March 16, 2004

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Departments HBGA/HBHA, Mail Drop 334
1133 Westchester Avenue
White Plains, NY 10604

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