



IBM STORAGE CUSTOMER SUPPORT PLAN

for North America

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Purpose of Support Plan

This document communicates the IBM technical support available to you, procedures for obtaining support, and information on contacting IBM. You will find information on IBM e-support, hardware and software reporting procedures, escalation processes (including a chart defining severity levels), as well as information available by phone.

NOTE:

To download the latest version of this document, go to <http://www.ibm.com/support/> then search using "customer support plan" (quotation marks included) in the search field.

05.17.2001

Support Overview for IBM Storage

From IBM's very largest customer to the individual consumer, the Web (<http://www.ibm.com>) is key to enabling e-relationships. Customers use the Web to learn about and buy offerings and solutions, to comparison shop, check on order status, and to invoke / receive after-purchase support and services. This is referred to as the *Learn / Shop / Buy / Receive / Use* cycle.

IBM also delivers technical sales support via the Web to allow customers to *Learn / Shop / Buy* in a self-service mode, without requiring assistance from the IBM sales channels or Technical Sales Support organizations. These activities can be end-to-end Web or Web-assisted, where the customer accomplishes some tasks via the web and then engages skilled resources.

As an IBM customer, you have access to a range of technical support unmatched in the industry. IBM storage offerings and solutions come with the service and support you expect, giving you enhanced value and confidence. Below is a bird's-eye view of IBM's customer support capability:



Base Services and Support

When you buy new IBM systems, you also buy IBM's unique depth of experience and expertise. You buy support from people dedicated to developing systems solutions for your business. As always, you can access a wide variety of technical support for your purchase -- free of charge.

Before you decide on any purchase, you can use a wealth of technical sales support, delivered both via the web and through your sales and technical team. We want to ensure that our solutions and offering address your business requirements. To help you learn about our offerings and make a purchase decision, we offer the following kinds of support:

- ◆ Offering technical content, such as white papers, model comparisons, and specifications
- ◆ Trial software downloads
- ◆ Offering and solutions demonstrations and seminars (including webinars)
- ◆ Identification and selection of appropriate solutions, including:
 - wComplex solution design and assistance
 - wOffering configurations
 - wBasic capacity plans
 - wSolution Assurance reviews for new IBM offerings to assure the solution both addresses your business needs and is technically feasible
 - wEducation and education planning assistance

Once you have decided on a storage offering, you can take advantage of the significant technical support we offer to help you install and implement your solution, including:

- ◆ Web self-service such as hints and tips, usage information, fixes, and downloads
- ◆ Installation planning assistance for new software licenses
- ◆ Physical planning and installation planning assistance
- ◆ Warranty support of IBM hardware
- ◆ Repair of IBM hardware engineering and manufacturing defects
- ◆ Base Software Support included with your software offering license

wBase software support for most System/390 offerings includes problem support for suspected defects in IBM code and publications. Support is by fax, mail, telephone (voice), and electronic access (bulletin boards).

wBase software support for IBM and Lotus' AS/400, RS/6000, and desktop platform products includes reporting and defect resolution for IBM code and publications. Support is by fax, mail, and electronic access where available.

wA complete discussion of IBM/Lotus/Tivoli software support is at

<http://ps.software.ibm.com/pbin-usa-ps/getobj.pl/?pdocs-usa/webhndbk.html>

NOTE: This document contains representative lists only of the services and support available from IBM. For further information on services and support available, see <http://www.ibm.com/services/> or call 1-800-IBM-4YOU.



IBM has received the National Medal of Technology -- which recognizes lasting contributions to competitiveness and embodies technological innovation for the company's leadership in developing and commercializing data storage technology.

Your first stop for IBM support . . . e-support

IBM delivers world-class storage support. We furnish you with the technical information and tools to help support a buying decision as well as help you get maximum value from your current storage products. Our technical support portal -- <http://www.ibm.com/support> -- offers you self-service 24 x 7 x 365 -- with its powerful, cross-IBM offering knowledge base. The portal also posts hot links to all of IBM offering support Web sites, including storage e-support at <http://www.storage.ibm.com/techsup.htm>



- ◆ Technical content
- ◆ Fixes, drivers, updates, tools
- ◆ Subscriptions, alerts
- ◆ Service requests
- ◆ Performance tuning, monitoring
- ◆ Installation planning, setup
- ◆ Education, certification
- ◆ Service offerings

e-support for Storage Hardware

<http://www.storage.ibm.com/techsup.htm>

Find it first on the web!

We furnish you with the technical information and tools to help maintain your current storage hardware / software or support a buying decision.

The list below shows what's available from the storage support home page:

Hardware Support

- ◆ Technical support for:
 - w Hard disk drives
 - w Disk systems
 - w Tape and optical
 - w Storage software
- ◆ StorageSmart products for OEM, Resellers, and System Integrators
- ◆ Storage media
- ◆ OEM MR (magneto-resistive) head support
- ◆ IBM server support

PASSPORT/Advantage PMR Electronic Incident Submission System

Redbooks ("How-to" books on technical topics)

Storage Management Software Support

IBM Global Services: Storage Services

Other Services

- ◆ Education
- ◆ Customer financing
- ◆ *iSource*, our customizable, one-stop source for IBM information



e-support for Storage Software

<http://ssddom01.storage.ibm.com/techsup/swtechsup.nsf>



Resolve your storage software problems quickly and independently using **timesaving online tools** that allow you to:

- ◆ Search for reported problems
- ◆ Download product fixes
- ◆ Report problems (or update an existing problem report)
- ◆ Order a fix
- ◆ Read related helpful information

Products Covered

- ◆ StorWatch Product Family (see page 11)
- ◆ Data Facility Storage Management SubSystem / Hierarchical Storage Manager (DFSMS / HSM)
- ◆ Tivoli Storage Management Product Family
- ◆ 2105 Enterprise Storage Server (ESS) SubSystem Device Driver (SDD) Support
- ◆ 2106 Modular Storage Server (MSS) Support
- ◆ 3466 Network Storage Manager (NSM) Entitlement

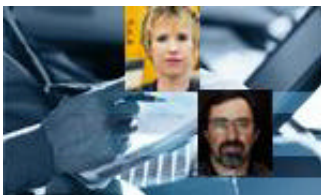
Don't overlook Redbooks!

IBM Redbooks are “how-to” guides to technical information, and *Redbooks Online!* is THE web source for finding complete information on IBM products and offerings. You can view and download complete books. We also offer two ways to find the Redbook you are looking for. Do a quick keyword search for a hit list of IBM Redbooks, Redpieces, and Redpapers. Or browse through pre-selected categories.

See <http://www.redbooks.ibm.com/>

A screenshot of the IBM Redbooks website. The header features the Redbooks logo. Below the header, there are several sections: 'Featured' with a registration requirement notice, 'Recent Redpieces' with a link to 'Integrating XML with DB2 XML', 'Recent Redbooks' with links to 'Getting the Most From Your Db2', 'Linux on IBM Netfinity Servers', and 'e-business Connectivity for VS1', and 'Featured Events and Other News' with a link to 'Tips for reading IBM Redbooks'. There is also a 'Keep informed' section with a globe icon and an 'e-mail' icon.

Residencies



IBM Redbooks are developed through a unique program -- the Residency -- that teams IBM technical professionals with Business Partners, customers, and IBM product development staff. Depending on the market needs of a product or solution, a team of residents is chosen through a competitive nomination process and works at one of the IBM International Technical Support Organization (ITSO) centers for two to eight weeks, devoted to developing an IBM Redbook.

The intensive, multi-week residency is where small teams explore and document (via a Redbook) a product's implementation, integration and operations -- often in the context of marketplace solutions. ITSO residencies apply leading-edge information technology to customer needs. If you are interested in participating in a residency, you can get more information from the IBM Redbook home page -- <http://www.redbooks.ibm.com/>

Ordering Redbooks and Other Publications

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To order hard copy publications for a fee, however, you will be asked to provide your name, address, e-mail address, and credit card information. This information allows your IBM Publications Center search results to display prices in your local currency. If available in stock, your order will be dispatched within 8-14 days by surface delivery, without additional cost.

See <http://www.elink.ibm.link.ibm.com/public/applications/publications/cgibin/pbi.cgi?CTY=US>

Quick Publication Ordering System search

Begin your IBM Publication Ordering System (POS) search by using one or more keywords. You can type (parts of) a publication title and description keywords, and publication numbers. The search options at the bottom of this page provide additional search functionality to the IBM Publications Center.

Search on

Publication number -- (xxxx-xxxx-xx)

List All publications
 Only orderable publications
 Only online publications (read/download)

If you don't find what you need with e-support, your next stop should be 1-800-IBM-SERV for hardware support

Your first call will connect you to your IBM Remote Technical Support Center Representative. This Representative will help diagnose your hardware problem and, if not resolved, will create a plan to resolve it, including recommending parts (if appropriate) to the IBM System Services Representative (SSR) responsible for supporting your IBM hardware. You can reach Hardware Support at **1-800-IBM-SERV**. The Service Delivery Manager or Duty Manager can assist you with any service issues.

If you need software support, call (US) 1-800-237-5511 (CAN) 1-800-IBM-SERV

Your call to Software Support gives us the opportunity to consistently meet your expectations by providing:

- ◆ Rapid response to your requests
- ◆ Fast relief for high impact problems
- ◆ Timely problem resolution
- ◆ High quality fixes and information
- ◆ Up-to-date service and installation information

NOTE: To be eligible for voice support on most software offerings, you must have either a Support Line or Passport/Advantage contract. (See page 9 for a list of IBM Global Services offerings.)

You are a valued customer. If, for any reason, we are not meeting your expectations, please call us.

- ◆ Duty Manager -- (US) **1-800-237-5511**
(CAN) **1-800-IBM-SERV**
- ◆ Integrated Technology Services Sales -- (US) **1-888-426-4343 (option 3)**
(CAN) **1-800-426-2255**

When you're not sure, call 1-800-IBM-4YOU

If you encounter a problem of unknown origin, contact your Remote Technical Support Specialist by calling the Hardware or Software Support numbers listed above or call our general information number -- **1-800-IBM-4YOU**. Call between 8AM - 7PM EST, 7AM - 7PM CST, and 5AM - 7PM PST.

Problem Resolution Using Severity Codes

The following severity codes determine how IBM escalates hardware and software problems. *Report a severity code when placing the initial service request to the IBM Support Center.*

Severity 1— CRISIS

- ◆ The system (or a major application or component) goes down, critically impacting a customer's ability to do acceptable business.
- ◆ No bypass alternatives are available.
- ◆ Severity 1 requires total commitment of equipment and personnel by the customer and vendors to resolve the problem. The respective management groups are responsible for assigning personnel.

Severity 2 — MAJOR

- ◆ A problem that causes a severe operational impact.
- ◆ Bypassing the problem is possible but not feasible.
- ◆ Severity 2 requires that the failing component be made available for repair.

Severity 3 — MINOR

- ◆ Any problem causing restricted function or minor impact on performance.
- ◆ Bypassing the problem is both possible / feasible.
- ◆ Deferred maintenance may be acceptable.

Severity 4 — BYPASSED

- ◆ A circumvented problem.
- ◆ The problem's impact is non-critical and does not affect operation.
- ◆ Deferred maintenance is acceptable.

IBM Global Services for IBM Storage -- Overview

What kinds of services are available for your IBM storage products?

Infrastructure & Systems Management	<ul style="list-style-type: none"> ◆ Testing Services for SAN
Networking & Connectivity	<ul style="list-style-type: none"> ◆ Fibre Transport Services
Technical Support	
<ul style="list-style-type: none"> ◆ Installation Services 	<ul style="list-style-type: none"> ◆ Geographically Dispersed Parallel Sysplex for Extended Remote Copy ◆ IBM 3583 Ultrium Scalable Tape Library on Host Server or Storage Area Network (SAN) ◆ SANergy ◆ Midrange Server SAN
<ul style="list-style-type: none"> ◆ Migration Services 	<ul style="list-style-type: none"> ◆ S/390-attached IBM Storage Servers ◆ Open system-attached IBM Storage Servers ◆ Virtual Tape Server (VTS) for New Allocations ◆ Virtual Tape Server for Static Data
<ul style="list-style-type: none"> ◆ Software Support Services 	<ul style="list-style-type: none"> ◆ S/390 SoftwareXcel http://www.ibm.com/services/its/us/mus19d1.html ◆ Support Line http://www.ibm.com/services/its/us/mus62d1.html ◆ Consult Line http://www.ibm.com/services/its/us/consline2.html ◆ S/390 Alert http://www.ibm.com/services/its/us/mus16d1.html ◆ S/390 Resolve http://www.ibm.com/services/its/us/mus23d1.html
<ul style="list-style-type: none"> ◆ Implementation Services 	<ul style="list-style-type: none"> ◆ IBM Implementation Services for Enterprise Storage Server Copy Services ◆ Automated Tape Library Implementation Services ◆ Virtual Tape Server (VTS) Implementation Services
<ul style="list-style-type: none"> ◆ Operational Support Services 	<ul style="list-style-type: none"> ◆ 3494 Automated Tape Library with Virtual Tape Server ◆ ADSM for SAP ◆ Tivoli Storage Manager ◆ Tivoli Storage Manager for Domain Resource Manager (DRM) ◆ Tivoli Storage Manager for Network Storage Manager (NSM) ◆ Performance Management and Capacity Planning Services for Tivoli ADSM

Please refer to <http://www.ibm.com/services/its/us/storage.html> for details on these and other services offerings. You may also call ITS Services at (US) 1-888-426-4343, option 2; (CAN) 1-800-426-2255.

Other IBM Global Services for Storage

Software Services

<http://www.ibm.com/services/its/us/swsupport.html>

or (US) 1-888 426-4343, option 3
(CAN) 1-800-426-2255

- ◆ Self Help
- ◆ Base Support (support included with the License Charge)

- ◆ Enhanced Support
- ◆ IBM Support Family of Services
- ◆ Planning Services
- ◆ SmoothStart
- ◆ Account Advocate
- ◆ Advanced Support
- ◆ Passport Advantage
- ◆ Tivoli Maintenance and Support

Learning Services

<http://www.ibm.com/services/learning/>

or 1-800-IBM-TEACH

- ◆ World's largest IT training provider
- ◆ Delivers thousands of courses daily in 55 countries

Why IBM Service?

IBM is uniquely qualified to deliver a caliber of service and support that allows businesses to concentrate on doing business. Why? Because:

- ◆ *116,000 people worldwide deliver IBM support and service in 164 countries.*
- ◆ *2,500 IBM support specialists handle thousands of customer and Business Partner calls each month, in 23 languages from 10 HelpCenters around the world.*
- ◆ *Maintenance parts are available from 145 parts-stocking locations (US) ; 479 locations (worldwide).*

You can find more detailed information at <http://www.ibm.com/services/its/us/storage.html>

The StorWatch Family of Products

In the future, IBM intends to address all eight key areas of Enterprise Storage Resource Management (see sidebar below) with StorWatch. Its single view and point of control will allow administrators to consistently monitor and manage storage resources, including IBM and non-IBM classical storage subsystems, the new intelligent Seascape storage subsystems, plus storage management software. Brief descriptions of the StorWatch products follow. For more detailed information, see <http://www.storage.ibm.com/software/storwatch/swvision.htm>

The StorWatch Vision

Within the enterprise, the StorWatch vision means creating storage management expertise in devices and software. This involves:

- ◆ One comprehensive view of all storage resources -- enterprisewide. A single view and point of control will exist for all these resources.
- ◆ This single point will be located anywhere in the enterprise where a secure intranet connection is available via a browser.
- ◆ A consistent interface will let administrators monitor and manage the StorWatch implementation's varied storage subsystems and software. These resources will have storage management expertise built in so they can fulfill their enterprise storage role.
- ◆ Should problems occur, the same network that allows StorWatch to communicate with its managed storage resources will also link directly with various vendors' support and service centers.

IBM StorWatch Experts and Specialists

The StorWatch family of enterprise storage management products has two primary dimensions: StorWatch Experts and StorWatch Specialists.

- ◆ **Experts** are separately purchased software products that provide asset, capacity, and performance management information about specific storage devices. (NOTE: Usage and installation questions for Expert products require a Support Line contract.)
- ◆ **Specialists**, which are packaged with the hardware purchase, provide configuration management for specific storage devices.

The 8 Key Areas of Enterprise Storage Resource Management

- ◆ Asset Management
- ◆ Capacity Management
- ◆ Configuration Management
- ◆ Data / Device / Media Migration
- ◆ Event / Alert Management
- ◆ Performance Management
- ◆ Policy Management
- ◆ Removable Media Management

The Experts

- ◆ IBM StorWatch Expert
- ◆ IBM StorWatch Serial Storage Expert (StorX)
- ◆ IBM StorWatch DFSMSHsm Monitor

The Specialists

- ◆ StorWatch Enterprise Storage Server (ESS) Specialist
- ◆ StorWatch MagStar 3494 Tape Library Specialist
- ◆ StorWatch MagStar 3494 Peer-to-Peer VTS Specialist
- ◆ StorWatch Modular Storage Server (MSS) Specialist
- ◆ StorWatch 2106 MSS Specialist
- ◆ StorWatch SAN Data Gateway Specialist
- ◆ StorWatch SAN Data Gateway S20 Specialist
- ◆ StorWatch Fibre Channel Switch Specialist
- ◆ StorWatch Fibre Channel RAID Specialist

IBM URLS

Corporate Home Page	http://www.ibm.com/
Business Continuity and Recovery Services	http://www.ibm.com/services/continuity/recover1.nsf
Global Financing	http://www.ibm.com/financing/webprod.nsf/ID/778AA4
Global Services Consulting	http://www.ibm.com/services/
Operating Systems Home Page	http://www.ibm.com/software/os/
Redbooks	http://www.redbooks.ibm.com/
Shop IBM	http://commerce.www.ibm.com/

IBM Storage URLS

IBM Storage Home Page	http://www.storage.ibm.com/
DFSMS Family of Products	http://www.storage.ibm.com/software/sms/sms/home.htm
Disk Systems Home Page	http://www.storage.ibm.com/hardsoft/disk/disk.htm
Removable Media Storage Home Page	http://www.storage.ibm.com/hardsoft/tape/index.html
Storage Area Networks (SANs)	http://www.storage.ibm.com/ibmsan/index.htm
SAN Software	http://www.storage.ibm.com/ibmsan/products/sansoftware.htm
SAN Services	http://www.ibm.com/services/its/us/san2.html
Storage Software Home Page	http://www.storage.ibm.com/software/index.htm
StorWatch Family of Products ...	http://www.storage.ibm.com/software/storwatch/swhome.htm
IBM Global Services for Storage	http://www.ibm.com/services/its/us/storage.html
Technical Support	http://www.storage.ibm.com/techsup.htm
Tivoli Storage Management Solutions	http://www.tivoli.com/products/solutions/storage/news.html

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Phone Directory of IBM Support



Customer Service Center **1-800-IBM-4YOU (426-4968)**

- A single point of contact if you do not know who to call at IBM
- Provides assistance and information on IBM products and services, seminars and classes, marketing assistance, and more

IBM Global Services' Integrated Technology Services (ITS) Sales .. **(US) 1-888-426-4343**
..... **(CAN) 1-800-426-2255**

- Can help you create systems, networks, and application infrastructures that support e-business on demand networked functionality.
- Includes IT planning, implementation, support and management services to help you maximize performance and availability, improve productivity, reduce cost and increase the value of your IT investments.

IBM Learning Services **1-800 IBM-TEACH (426-8322)**

- To receive information and/or enroll, call between 7 AM - 7 PM CST Monday - Friday.

Software Technical Support Center **(US) 1-800-237-5511**
..... **(CAN) 1-800-IBM-SERV**

- Serves as the primary contact for software problem reporting
- Accepts calls for software technical support covered by an: IBM Licensing Agreement or Support Contract
- Notifies local IBM assistance if customer requests to contact them

Hardware Technical Support Center **1-800-IBM-SERV (426-7378)**

- Serves as the primary contact for hardware problem reporting
- Accepts calls for repairing hardware covered by an IBM Maintenance Agreement or Support Contract
- Notifies local IBM management if customer requests to contact them

Publication Orders and SLSS Support **(US) 1-800-879-2755**
..... **(CAN) 1-800-IBM-4YOU**

- To order publications or to receive System Library Subscription Service (SLSS)