



# IBM Tivoli Storage Manager FastBack for Bare Machine Recovery

---

## Highlights

---

- ***Enables systems recovery following a disaster or catastrophic server failure***
- ***Provides the flexibility of recovering to dissimilar hardware or to a virtual machine***
- ***Helps protect remote or branch offices with a cost-effective disaster recovery and business resiliency strategy that requires a minimum of standby hardware***
- ***Leverages IBM Tivoli® Storage Manager FastBack™ to provide near-instant access to applications and data***
- ***Facilitates the migration of workloads to new hardware platforms***

In today's competitive 24x7 business environment, the amount of downtime a company can afford is rapidly shrinking. Every minute of downtime can contribute to lost sales, disenchanted customers, and wasted resources, while longer outages can be catastrophic to your company's viability.

Downtime may be caused by system malfunctions, corrupt software, viruses, malicious activity or natural disasters. Despite having identified these threats and taken efforts to combat them, many organizations may still not be prepared to resume operations quickly. Whether an entire office, a single server or an important file is lost, timely recovery can be critical.

### **Powerful server recovery capabilities**

To address these recovery needs, IBM offers IBM Tivoli Storage Manager FastBack for Bare Machine Recovery, an optional component for Tivoli Storage Manager FastBack. Tivoli Storage Manager FastBack for Bare Machine Recovery enables recovery following a disaster or catastrophic server failure. Typically within an hour, you can easily recover entire systems to a comparable server, to a new server with different hardware, or to a virtual machine using VMware or Microsoft® Virtual Server.

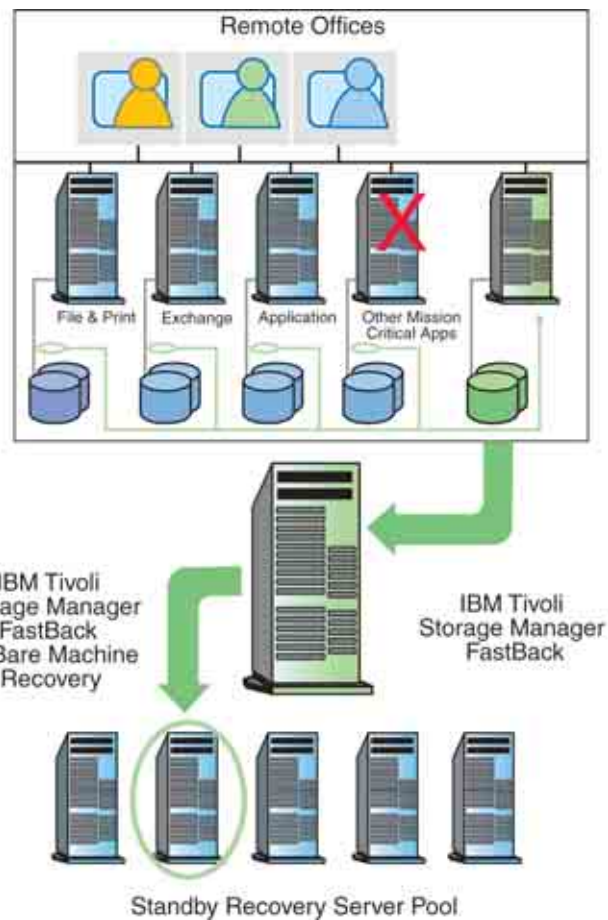
Adding bare machine recovery capabilities to Tivoli Storage Manager FastBack opens a wide range of opportunities to increase application availability and reduce the costs of systems and data management.

Once your data is protected by Tivoli Storage Manager FastBack, you can:

- *Quickly recover on a similar or dissimilar server, to keep operations running while a replacement system is provisioned.*
- *Perform bare machine recovery in a local office, in a data center, or in a central disaster recovery site. This capability can be essential for continuing business operations following a complete site failure from a catastrophic event such as fire, flood, hurricane or extended power outage.*
- *Provide access to applications and data within a few minutes of a server failure. With the software's unique virtual recovery capabilities, data volumes can be made available as soon as the recovery process starts, while data is restored in the background.*
- *Create new systems from any previous known-good, application-consistent recovery point to return to a time prior to the disaster (point-in-time rollback).*

### Migration made easy

Tivoli Storage Manager FastBack for Bare Machine Recovery can also be the ideal tool for performing migrations to new hardware platforms, making it fast and easy to move workloads from old hardware or standalone



*IBM Tivoli Storage Manager FastBack for Bare Machine Recovery enables organizations to maintain a minimum of standby systems for disaster recovery, providing cost-effective business resiliency options for organizations with remote offices.*

servers to new hardware or blade servers. Tivoli Storage Manager FastBack for Bare Machine Recovery can facilitate the migration of entire systems, including operating systems, applications and data.

### Cost-effective recovery for remote offices

With most high-availability solutions, such as replication or mirroring, you are required to keep two of everything—one for production and one for failover. Providing high availability capabilities for remote offices can be cost-prohibitive,

especially when the failover hardware must be identical to the production hardware. But from a risk perspective, it is highly unlikely that organizations with geographically distributed offices would experience simultaneous outages in more than a small percentage of those locations.

Tivoli Storage Manager FastBack for Bare Machine Recovery offers a cost-effective alternative, enabling organizations to maintain a minimum of standby systems for business resilience. For example, if you have 20 offices with three to five servers each, and you determine that it's unlikely that more than two offices could be down at the same time, you would need a maximum of ten standby servers (or virtual machines) to provide a platform for recovery using Tivoli Storage Manager FastBack for Bare Machine Recovery.

With this solution, if a single server is lost in one remote office, it can be restored to a standby server in that office or in the data center. From there, it can be accessed by remote staff or shipped to the remote office for re-deployment. When an entire office is impacted, all the servers from that

## IBM Tivoli Storage Manager FastBack for Bare Machine Recovery at a glance

### Software and operating system requirements:

- IBM Tivoli Storage Manager FastBack
- Microsoft Windows 2000 Standard Server (SP3 or later), Microsoft Windows 2003 Enterprise Server (SP1 or later), Microsoft Windows XP Pro (SP1 or later)

### Hardware requirements:

- Intel® Pentium® processor 1 GHz or higher (2 GHz or higher recommended)
- 1 GB RAM (2 GB RAM recommended)
- Disk space: At least 300 MB free hard disk space
- LAN Connectivity: 1 NIC, 100 Mbps (1 Gbps recommended)
- Repository: Any IDE, SCSI, iSCSI or Fibre Channel disk, 3x the capacity of primary storage (5x recommended)

office can be restored simultaneously in the data center or disaster recovery site.

### Integrating remote and central operations

The ability to recover data from remote offices is becoming increasingly crucial as the number of remote offices grows and the amount of data in them increases. Because Tivoli Storage Manager FastBack is an integrated component of IBM Tivoli Storage Manager, it makes it easier for organizations with remote offices to add remote data to their core storage-related processes such as archive, retention and compliance.

### Helping increasing uptime and productivity

When a failure renders data inaccessible, time is critical. But loading and configuring an operating system and

reinstalling the software can be very time consuming. Combined with Tivoli Storage Manager FastBack, Tivoli Storage Manager FastBack for Bare Machine Recovery provides a fast, cost-effective and easy-to-use disaster recovery solution. By automating and streamlining disaster recovery operations, this solution can save companies from the hassle and complexity of learning a complicated recovery strategy for each type of data and for every possible threat. In this way, Tivoli Storage Manager FastBack for Bare Machine Recovery helps empower companies to be more productive and better focused on their core business, knowing that their critical IT assets are well protected.



### For more information

To learn more about IBM Tivoli Storage Manager FastBack for Bare Machine Recovery, contact your IBM sales representative or IBM Business Partner, or visit [ibm.com/tivoli](http://ibm.com/tivoli)

### About Tivoli software from IBM

Tivoli software offers a service management platform for organizations to deliver quality service by providing visibility, control and automation—visibility to see and understand the workings of their business; control to effectively manage their business, help minimize risk and protect their brand; and automation to help optimize their business, reduce the cost of operations and deliver new services more rapidly. Unlike IT-centric service management,

Tivoli software delivers a common foundation for managing, integrating and aligning both business and technology requirements. Tivoli software is designed to quickly address an organization's most pressing service management needs and help proactively respond to changing business demands. The Tivoli portfolio is backed by world-class IBM Services, IBM Support and an active ecosystem of IBM Business Partners. Tivoli clients and Business Partners can also leverage each other's best practices by participating in independently run IBM Tivoli User Groups around the world—visit [www.tivoli-ug.org](http://www.tivoli-ug.org)

© Copyright IBM Corporation 2008

IBM Corporation Software Group  
Route 100  
Somers, NY 10589  
U.S.A.

Produced in the United States of America  
July 2008

All Rights Reserved

IBM, the IBM logo, [ibm.com](http://ibm.com), FastBack and Tivoli are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at [ibm.com/legal/copytrade.shtml](http://ibm.com/legal/copytrade.shtml)

Intel and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

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

**Disclaimer:** The customer is responsible for ensuring compliance with legal requirements. It is the customer's sole responsibility to obtain advice of competent legal counsel as to the identification and interpretation of any relevant laws and regulatory requirements that may affect the customer's business and any actions the customer may need to take to comply with such laws. IBM does not provide legal advice or represent or warrant that its services or products will ensure that the customer is in compliance with any law or regulation.

**TAKE BACK CONTROL WITH** 