



The Backup & Recovery Experts

TOLIS Group, Inc.



PRODUCT DATASHEET

bruAPP™

Data Backup and Restore Appliance

bruAPP DATA BACKUP AND RESTORE APPLIANCE

The bruAPP is a complete, self-contained data backup and restore system appliance. Everything needed to comprise a self-contained network backup system is contained within the appliance hardware. The bruAPP appliance is a system administrator's dream-come-true to eliminate the travails of defining and executing backup and restore throughout an organization

- Tightly integrated, complete backup and restore system
- Ready to use in less than 5 minutes
- Leadership Mac OS X data backup and restore reliability
- Virtually limitless expandability and scalability

HEART

bruAPP/OS™ is a TOLIS Group developed custom backup-oriented operating system, derived from FreeBSD and Linux. This highly tuned custom OS forms the heart of the bruAPP appliance. "Backup oriented" is key because the bruAPP performs a single function, and that is the backup and recovery of data. Unencumbered by traditional operating system overhead and complexity, bruAPP/OS delivers rock solid operating system stability to assure uninterrupted and seamless backup system operation today and into the future. bruAPP/OS renders the bruAPP's operation totally impervious to software upgrades at the server system level.

BODY

Standard, device-matched, tested, and proven hardware components from quality manufacturers comprise the "body" to provide years of reliable and predictable backup performance. The bruAPP is designed to provide trouble free backup and recovery operations for the long term.

SOUL

BRU Server™ 1.2 is the software that comprises the "soul" of the bruAPP appliance. BRU™ technology has protected the data on UNIX systems for 19 years, and BRU Server 1.2 represents the culmination of the knowledge and expertise gained since 1985.

Backing up data is all about the ability to recover it when needed. As with all BRU-based solutions, any errors experienced by the bruAPP during a restore are identified, reported, and circumvented where possible, allowing the restore to continue beyond the point of the error; conditions under which other tools simply abort the recovery. Management of bruAPP is provided via an intuitive graphical interface, character-based interface, or from the command line.

PRODUCT HIGHLIGHTS

- A dedicated, complete backup and restore system not dependent on any network system resources
- Tested and proven quality components used throughout
- The bruAPP appliance delivers the shortest, fully verified, backup window in the industry
- The BRU Server agents require very limited system resources allowing client system backups to occur while the systems are in use with very little impact on the client system operation
- Works within NAS, SAN, and wireless environments
- Supports many different backup schedule types - full / differential / incremental, grandfather / father / son, etc.
- Supports all important operating system platform file attributes
- Supports D2D, D2T and D2D2T backup and restore strategies
- True Zero Impact design on any Server on the network
- Data restore is a one step process - regardless of the data's location on the disk stage or tape
- BRU Server disk stage scalability limited only by the capacity of currently tested and approved hard drives
- Number of client systems supported by a single bruAPP is limited only by available network bandwidth
- Client system licenses (agents) do not differentiate between network Servers, desk side systems, or laptops - one system; one license
- Native support of SCSI and Fibre-Channel attached tape libraries, regardless of the number of tape drives or tape slots
- Can write to multiple tape drives and tape libraries simultaneously
- Multiple backup streams from client systems to the disk stage can occur simultaneously - further reducing your backup window.
- Network traffic data compression is configurable and can provide better utilization of available network bandwidth
- Upstaging from disk stage to tape occurs without the intervention of client systems and zero impact is incurred on network bandwidth or any other system/server on the network

PHYSICAL

- Available in tower, 1U and 2U rackmount chassis configurations
- Robust BRU Server disk stage (D2D) comprised of up to 12 high-performance, exchangeable, Serial ATA (SATA) hard disk drives
- VXA-2 and LTO-2 half-height tape drives are available in select models (other tape technology can be quoted upon request)
- Integrated Host Bus Adapters to support external SCSI or Fibre Channel tape libraries (optional)
- Dual gigabit Ethernet ports

OPERATIONAL

- Backup and restore support for almost any networked computing environment
- Works within NAS, SAN, and wireless environments
- Server installation takes less than 5 minutes (disk-to-disk) - implementing tape library technology takes a little longer
- Graphical, character-based, and command line management consoles
- Supports many different backup schedule types - full / differential / incremental, grandfather / father / son, etc.
- Supports all important operating system platform file attributes
- Supports D2D, D2T and D2D2T backup and restore strategies
- True Zero Impact design on any Server on the network
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RELIABILITY

- Tested and proven quality components used throughout
- A dedicated, complete backup and restore system not dependent on any network system resources
- Proven reliability of BRU software technology - errors can be circumvented to continue restores that would cause other backup applications to abort
- Network Server operating system upgrades do not impact bruAPP operation
- Catalogs are stored on the archive media in addition to the server drive to allow simple re-creation of the backup records should the bruAPP HDD fail
- AES 256-bit encryption assures secure communication between client systems and bruAPP

FUNCTIONALITY

- Disk stage and tape archives can be 100% verified for accuracy without continued access to the original data
- Native support of SCSI and Fibre-Channel attached tape libraries, regardless of the number of tape drives or tape slots
- Can write to multiple tape drives and tape libraries simultaneously
- Drive Autobalancing™ eliminates overuse of any particular drive within a multi-drive library
- Uses TapeAlert™ to monitor, report, and correct tape and library issues
- Tape bar code reader support
- Pre and post job execution scripts may be run on a client system to enable support for nearly any type of database or other live environment
- Protects data on laptop systems intermittently-attached to the network
- Network traffic data compression is configurable and can provide better utilization of available network bandwidth

PERFORMANCE

- The bruAPP delivers the shortest, fully verified, backup window in the industry
- The BRU Server agents require very limited system resources allowing client system backups to occur while the systems are in use with very little impact on the client system operation
- Following an initial full backup of a client system, the subsequent incremental or differential backups to the disk stage are virtually transparent to the user in both time and system load
- Upstaging from disk stage to tape occurs without the intervention of client systems and zero impact is incurred on network bandwidth or any other system/server on the network
- Thanks to the highly tuned custom bruAPP/OS and high performance hardware components, the bruAPP can take full advantage of the performance and capacity provided by the latest tape drive technologies
- Multiple backup streams from client systems to the disk stage can occur simultaneously - further reducing your backup window.
- Client system backups are not interleaved, thereby further shortening the time to restore selected files and ensuring the reliability of the stored data

CONFIGURATIONS

bruAPP Tower Systems

bruAPP T250

Complete backup system, 250 GB stage, 10 client licenses

bruAPP T250-TV

backup system ,250 GB stage, Exabyte VXA-2 ATAPI half-height tape drive, 10 client licenses

bruAPP T250-TL

Complete backup system, 250 GB stage, Certance LTO-2 SCSI half-height tape drive, 10 client licenses

bruAPP T1000

Complete backup system, 1 TB stage, 25 client licenses

bruAPP T1000-TV

Complete backup system, 1 TB stage, Exabyte VXA-2 ATAPI half-height tape drive, 25 client licenses

bruAPP T1000-TL

Complete backup system, 1 TB stage, Certance LTO-2 half-height SCSI tape drive, 25 client licenses

bruAPP 1U Rackmount Systems

bruAPP R250

Complete backup system, 250 GB stage, 10 client licenses

bruAPP R1000

Complete backup system, 1 TB stage, 25 client licenses

bruAPP R1600

Complete backup system, 1.6 TB stage, 25 client licenses

bruAPP R500-TV

Complete backup system, 500 GB stage, Exabyte VXA-2 ATAPI half-height tape drive, 25 client licenses

bruAPP R500-TL

Complete backup system, 500 GB stage, Certance LTO-2 Half-height SCSI tape drive, 25 client licenses

bruAPP 2U Rackmount System

bruAPP R2000

Complete backup system, net 2TB stage (RAID 5), redundant power supply, SCSI HBA, 150 client licenses (optional F-C HBA can be added)

bruAPP R4000

Complete backup system, net 4TB stage (RAID 5 +hot spare), redundant power supply, SCSI HBA, 150 client licenses (optional F-C HBA can be added)

Upgrade options, additional bruAPP components and additional client licenses are also available.

- All configurations implement bruAPP/OS and BRU Server 1.1 client/server software
- External tape drives and libraries are available by custom quote
- All capacities quoted based upon 250GB disk or 400GB capacities. Capacities may change as newer, larger capacity drives are tested and certified.
- Custom configurations available upon request

www.tolisgroup.com



Additional BRU solutions are available to support heterogeneous client/server-based network topologies, smaller commercial networks, Small Office/Home Office (SOHO) systems, and personal systems used in the home. Copyright © 2005, TOLIS Group, Inc. All rights reserved. Prices and availability subject to change without notice. Macintosh is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.