



Backup You Can TrustSM

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.

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. Without 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™ is the software that comprises the "soul" of the bruAPP appliance. BRU™ technology has protected the data on UNIX systems for 24 years, and BRU Server represents the culmination of the knowledge and expertise gained since 1985 to reliably backup and restore Unix-core and Windows systems.

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 intuitive graphical interfaces, a character-based interface, or from the command line.

PRODUCT HIGHLIGHTS

Graphical Management Interfaces for Mac OS X, Linux and Windows

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

bruAPP 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 SAS, 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.

Encryption Module for secure archives

Robust encryption assures secure data transmission over the network

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 1U and 3U rackmount chassis configurations
- Robust BRU Server disk stage (D2D) comprised of up to 16 high-performance, exchangeable, Serial ATA (SATA) hard disk drives
- LTO-4 tape drives and libraries available with select models
- Integrated Host Bus Adapters to support external SAS, SCSI or Fibre Channel tape libraries
- 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 10 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
- 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

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
- Encryption Module for secure archives

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 (BRU Windows Open File Manager Ad-On available to support Oracle, Exchange, etc...and Active Directory)
- 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
- Client-level user initiated backup and restore options

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

More information:

www.tolisgroup.com

TOLIS Sales: 480.505.0488

STANDARD CONFIGURATIONS

bruAPP Rackmount Systems Without Tape

bruAPP Core

Complete 1U integrated backup system ready to attach to your existing tape hardware for a D2T solution. The bruAPP Core model ships with no disk stage (upgradeable to up to 8TB), 10 client licenses, SAS or SCSI HBA for tape interconnect, 3-year depot hardware warranty and 1 year top tier software support.

bruAPP W4K

Complete 1U D2D integrated backup system. The bruAPP W4K model ships with 4TB disk stage (upgradeable to up to 8TB), 10 client licenses, SAS or SCSI HBA for tape interconnect to your existing tape unit to make this a D2D2T solution, 3-year depot hardware warranty and 1 year top tier software support.

bruAPP W8K

Complete 1U D2D integrated backup system. The bruAPP W8K model ships with 8TB disk stage, 25 client licenses, SAS or SCSI HBA for tape interconnect to your existing tape unit to make this a D2D2T solution, 3-year depot hardware warranty and 1 year top tier software support. Can be configured RAID5 which nets 6TB storage, please specify RAID0 or RAID5 when ordering.

bruAPP SB12K

Complete 3U D2D integrated backup system. The bruAPP W12K model ships with a choice of 10TB net storage (RAID5+hot swap spare) or 9TB net storage (RAID6+hot swap spare), 150 client licenses, SAS or SCSI HBA for tape interconnect to your existing tape unit to make this a D2D2T solution, redundant power supplies, 3-year depot hardware warranty and 1 year top tier software support. Please specify RAID5 or RAID6 when ordering. This unit is also upgradeable to 16TB of disk stage which provides 14TB net storage (RAID5+hot swap spare) or 13TB net storage (RAID6+hot swap spare).

bruAPP SB16K

Complete 3U D2D integrated backup system. The bruAPP W16K model ships with a choice of 14TB net storage (RAID5+hot swap spare) or 13TB net storage (RAID6+hot swap spare), 150 client licenses, SAS or SCSI HBA for tape interconnect to your existing tape unit to make this a D2D2T solution, redundant power supplies, 3-year depot hardware warranty and 1 year top tier software support. Please specify RAID5 or RAID6 when ordering.

bruAPP E32K

Complete 3U D2D integrated backup system. The bruAPP E32K model ships with a choice of 28TB net storage (RAID5+hot swap spare) or 26TB net storage (RAID6+hot swap spare), 150 client licenses, SAS or SCSI HBA for tape interconnect to your existing tape unit to make this a D2D2T solution, redundant power supplies, 3-year depot hardware warranty and 1 year top tier software support. Please specify RAID5 or RAID6 when ordering.

bruAPP Rackmount Systems with Tape Autoloaders

bruAPP Core+8 SAS

Complete 2U backup solution including a 1U backup system and a 1U HP G2 1x8 LTO-4 SAS tape autoloader. Includes all required cables, and a starter media kit of a tape cleaning cartridge and one LTO-4 tape. The bruAPP Core model ships with no disk stage (upgradeable to up to 8TB to make this a full D2D2T solution), 10 client licenses 3-year depot hardware warranty and 1 year top tier software support.

bruAPP W4K+8 SAS

Complete 2U D2D2T backup solution including a 1U backup system and a 1U HP G2 1x8 LTO-4 SAS tape autoloader. Includes all required cables, and a starter media kit of a tape cleaning cartridge and one LTO-4 tape. The bruAPP W4K+8 model ships with 4TB disk stage (upgradeable to up to 8TB), 10 client licenses 3-year depot hardware warranty and 1 year top tier software support.

bruAPP W8K+8 SAS

Complete 2U D2D2T backup solution including a 1U backup system and a 1U HP G2 1x8 LTO-4 SAS tape autoloader. Includes all required cables, and a starter media kit of a tape cleaning cartridge and one LTO-4 tape. The bruAPP W8K+8 model ships with 8TB disk stage, 25 client licenses a 3-year depot hardware warranty and 1 year top tier software support. Can be configured RAID5 which nets 6TB storage, please specify RAID0 or RAID5 when ordering.

bruAPP W12K+24 SAS

Complete 5U D2D2T backup solution including a 3U backup system and a 2U HP StorageWorks MSL2024 single drive LTO-4 SAS tape autoloader. Includes all required cables, and a starter media kit of a tape cleaning cartridge and one LTO-4 tape. The bruAPP W12K+24 model ships with a choice of 10TB net storage (RAID5+hot swap spare) or 9TB net storage (RAID6+hot swap spare), 150 client licenses, redundant power supplies, 3-year depot hardware warranty and 1 year top tier software support. Please specify RAID5 or RAID6 when ordering. The MSL2024 is expandable to 2 drives.

bruAPP W16K+24 SAS

Complete 5U D2D2T backup solution including a 3U backup system and a 2U HP StorageWorks MSL2024 single drive LTO-4 SAS tape autoloader. Includes all required cables, and a starter media kit of a tape cleaning cartridge and one LTO-4 tape. The bruAPP W16K+24 model ships with a choice of 14TB net storage (RAID5+hot swap spare) or 13TB net storage (RAID6+hot swap spare), 150 client licenses, redundant power supplies, 3-year depot hardware warranty and 1 year top tier software support. Please specify RAID5 or RAID6 when ordering. The MSL2024 is expandable to 2 drives.

bruAPP W32K+24 SAS

Complete 5U D2D2T backup solution including a 3U backup system and a 2U HP StorageWorks MSL2024 single drive LTO-4 SAS tape autoloader. Includes all required cables, and a starter media kit of a tape cleaning cartridge and one LTO-4 tape. The bruAPP E32K+24 model ships with a choice of 28TB net storage (RAID5+hot swap spare) or 26TB net storage (RAID6+hot swap spare), 150 client licenses, redundant power supplies, 3-year depot hardware warranty and 1 year top tier software support. Please specify RAID5 or RAID6 when ordering. The MSL2024 is expandable to 2 drives.

bruAPP W32K+48 SAS

Complete 7U D2D2T backup solution including a 3U backup system combined with a 4U HP StorageWorks MSL4048 single drive LTO-4 SAS tape autoloader. Includes all required cables, and a starter media kit of a tape cleaning cartridge and one LTO-4 tape. The bruAPP E32K+48 model ships with a choice of 28TB net storage (RAID5+hot swap spare) or 26TB net storage (RAID6+hot swap spare), 150 client licenses, redundant power supplies, 3-year depot hardware warranty and 1 year top tier software support. Please specify RAID5 or RAID6 when ordering. The MSL4048 is expandable to 4 drives.

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