



# ioSafe BDR 515

powered by Windows Server 2012 R2

+ StorageCraft® ShadowProtect® SPX



## Maximize Uptime : Eliminate Worry

The cloud is great....except when it isn't. Does a slow or broken connection mean your DR plan just flew out the window? Not with ioSafe.

The ioSafe BDR 515 + Private Cloud is the only fireproof, waterproof BDR appliance that combines secure 100% private cloud replication and failover to create the ultimate SMB business continuity solution. No 3rd party data storage provider. 100% control. Perfect.

The ioSafe BDR uses our private cloud when available but can also protect data against disasters with or without an internet connection - there's nothing else like this on the planet.

With the bundled Microsoft® Windows Server 2012 R2 OS and StorageCraft® ShadowProtect® SPX software, the ioSafe BDR 515 can not only backup/failover capabilities to both real and virtual servers, but can also act like an "aircraft black box" for your critical data if your office happens to lose connectivity in the middle of a disaster.

## Eliminate Downtime

Ensure business continuity in the event of hardware or software failure

- Recover from server crash in minutes
- Virtualize server on local ioSafe BDR or remotely using private cloud
- Create backup images of your physical or virtual servers and workstations
- Boot backup images as virtual machines for granular recovery of individual files, or for temporary physical server replacement

## Test Without Fear

Run backup and restoration scenarios without risking the primary server.

- Testing new applications prior to introducing them into your production server environment
- Testing your business's disaster recovery plan
- Test Migration plan to new hardware or virtual environment

## Recover Quickly - Entire Server or Files

Files are always just a click away when needed

- Restore individual files or mount images as virtual servers for point in time server restores
- Performing bare metal recovery after a server failure
- Restoring to the same hardware after a system error causes a server crash

When you reduce complexity with an ioSafe BDR 515 unified, backup and recovery appliance, you:

- Eliminate the need for heterogeneous and complicated IT infrastructure
- Reduce the risk of losing data
- Increase the efficiency of your infrastructure
- Simplify data recovery following disaster events

## True Disaster Protection

An on-premise "black box" for your data combined with private cloud offsite covers virtually all conceivable data loss threats - regardless of internet connection status.

- Disaster protection even during internet outage
- Fireproof up to 1550 °F for 30 minutes
- Waterproof up to 10 ft. of water for 72 hours
- Automated, 100% private, offsite server dedicated to you.
- Rapid, same or next day shipment of offsite data for up to 50TB!

## Backup Your Backup

Backup and Recover physical and virtual data quickly with imaged based recovery and management tools

- Backup servers, desktops, and virtual machines from a single interface on-premise and in our 100% private cloud under your control.
- Reduce Recovery Point Objective (RPO) to virtually zero with high frequency, non disruptive backup regardless of internet connection status.

## Replicate and Protect

Replicate data off-site or on-site to create redundant backup images with StorageCraft ShadowStream®

- Send backup image files to a remote site such as a second office, a co-location facility, or the ioSafe Cloud.
- ShadowStream can significantly reduce the time needed to transfer backup image files.

## Key Differentiators

- Fastest method to return to 100% full strength, post disaster, up to 50TB
- Multi-strategy approach using on-premise, disaster-hardened storage arrays combined with 100% private offsite cloud storage
- RPO=0 (Recovery Point Objective) and best in class Recovery Time Objective (minutes) even after a disaster where the internet could be down for weeks
- 100% Private Cloud - no third party providers. 100% data controlled by you
- Intelligent image based backup for physical and virtual environments using proven Storagecraft Shadow Protect platform
- Windows Server 2012 R2 based
- 5-bay fireproof and waterproof design with instant disaster recovery and failover
- Unified support offering including hybrid cloud backup to ioSafe with fast turnaround of replacement drives with intact data, Data Recovery Services, Hardware Warranty, Technical Support and all software maintenance
- 100% Satisfaction Guarantee



## Additional Features

### Automatic verification

Many backup and disaster recovery software solutions automatically verify the integrity of your backup files. Since verification often happens automatically, you'll be able to have a level of assurance that backups work without much effort.

### File and folder Recovery

One of the most basic hands-on tests is a file and folder recovery. If you can mount a backup image as a drive letter, browse through it, and recover a document, you'll know the data is readable and accessible.

### Virtualization

ShadowProtect allows you to spin up a backup image as a virtual machine. This way, you can see that the backup image can actually boot up and function. The ioSafe BDR 515 will take the place of failed hardware if there's a problem. These typically leverage virtualization technologies and should definitely be tested for functionality.

### Bare metal recovery

As noted, a full restore to replacement equipment isn't something everybody has the resources to do, though some IT providers may have extra hardware around just to test things. If that's the case, testing a full restore is likely an option. As noted, it takes hardware time to move data to and from point A and point B, so to know how long this type of restore will take (which can affect your RTO), you need to test.

### Full disaster recovery plan

A real disaster recovery plan isn't just having backups. It's a comprehensive plan that covers every thing from personnel to utility redundancies, network and hardware requirements, and more. The idea is that nothing that can happen that will prevent a business from doing business.

## ioSafe Hybrid Cloud

The BDR 515 keeps onsite data protected, with the option of off-site replication to the ioSafe Cloud for an additional layer of protection and redundancy. The BDR 515 has a near zero RPO (Recovery Point Objective) in the aftermath of a disaster, meaning if your Internet connection is compromised, your data protection stays complete and functional. Requires subscription.

## Backup Consolidation

The Consolidation Service and Settings allow you to:

- Reduce restoration time, risk of backup-file corruption, and needed storage space by automatically consolidating continuous-incremental backup image files
- Consolidate these continuous-incremental backup image files into daily, weekly, and monthly files to reduce the length of the backup image chain
- Roll up multiple monthly consolidated files to further shorten the backup image chain

## Backup Verification

The Verification Service and Settings let you:

- Verify the integrity of your backup image files and chains to ensure they're in a known good state for fast and reliable recovery (if verification fails, backup images won't be consolidated, retained, or replicated)
- Define if and how frequently backup image files are automatically verified and re-verified
- Configure verification actions to be the same for all managed folders (of backup images) or configure specific verification actions for each managed folder
- Manage how computer processing resources are used during verification functions

## ioSafe Hybrid Cloud

- Replicate your backups to the secure ioSafe cloud using the StorageCraft ShadowStream software
- Send copies of backup images files to the ioSafe cloud, a remote server, or a co-location facility.
- Replicate incremental files offsite while protecting files locally on the fireproof, waterproof BDR 515
- If need be, ioSafe will quickly ship replacement drives and BDR hardware to prevent business downtime

## Backup Image Virtualization

With the premium-feature job license (for StorageCraft HeadStart Restore® technology), you can:

- Pre-stage a recovery: start a restore operation to a virtual machine while the original production server continues to run
- Finalize the restore operation by applying the original production server's final incremental backup to the pre-staged virtual machine
- Migrate or restore a server to the virtual machine in the time it would take to reboot your server (because your recovery is pre-staged)

## Continuous Image Backups

- A continuous incremental schedule means that only one full backup is taken—from then on, all backups are incremental and can be taken as frequently as every 15 minutes. Continuous incremental backups are ideal for backing up high-availability servers or large data volumes.
- Using continuous incrementals reduces the backup window and backup image size—but they require managing. If left unmanaged, continuous incremental image chains become so long that they can hamper recovery efforts.
- That's where StorageCraft ImageManager comes in. StorageCraft ImageManager enables you to set consolidation and retention policies for ShadowProtect and SPX backups. These policies reduce the backup chain length and, in turn, the storage space needed while sustaining the organization's capability for file and folder recovery.

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## Technical Specs.

- Capacities: 5TB to 50TB
- Processor: Intel® Xeon® processor D-1520/1521, 4-Core, 8 Threads, 45W
- Memory: 16GB DDR4 RAM (up to 128GB)
- Five hot-swappable drive bays for simple upgrades/replacement
- Hardware RAID controller
- Dual Gigabit Ethernet Ports with Dual 10 Gigabit Ethernet Ports for failover with Link Aggregation Support

## Monthly Warranty

- Requires Monthly Service Plan
- Hardware Replacement
- Extended Technical Support
- Data Recovery Service (DRS)
- Advance Hardware Replacement
- Hybrid Cloud Replication to ioSafe Secure Servers