R1Soft

Continuous Data Protection®
Tools for Windows and Linux

CDP Enterprise Edition
Protecting **Over 180,000 Servers** and Counting...

AFFORDABLE HIGH-PERFORMANCE DISK-TO-DISK BACKUP SOFTWARE FOR WINDOWS AND LINUX SERVERS

On today's Linux and Windows servers, rapid data growth poses serious challenges— with shrinking backup windows, reduced recovery time objectives and decreasing tolerance for data loss. Organizations and data centers require data protection solutions that deliver automatic, fast, and efficient data protection as well as bare-metal restore.

R1Soft **CDP Enterprise Edition** is the perfect solution for companies looking for fast, cost-effective disk-based server and database backup with disaster recovery and central management of backup operations for 25-100 agents/servers.

CDP Enterprise Edition currently provides Continuous Data Protection® to some of the largest data centers and hosting companies in the world, currently *protecting over 180,000 servers worldwide.*

How CDP Enterprise Edition Works:

Windows / Linux Servers

R1Soft CDP Server

CDP agent installed on servers backs up files and databases every (x) minutes / hours

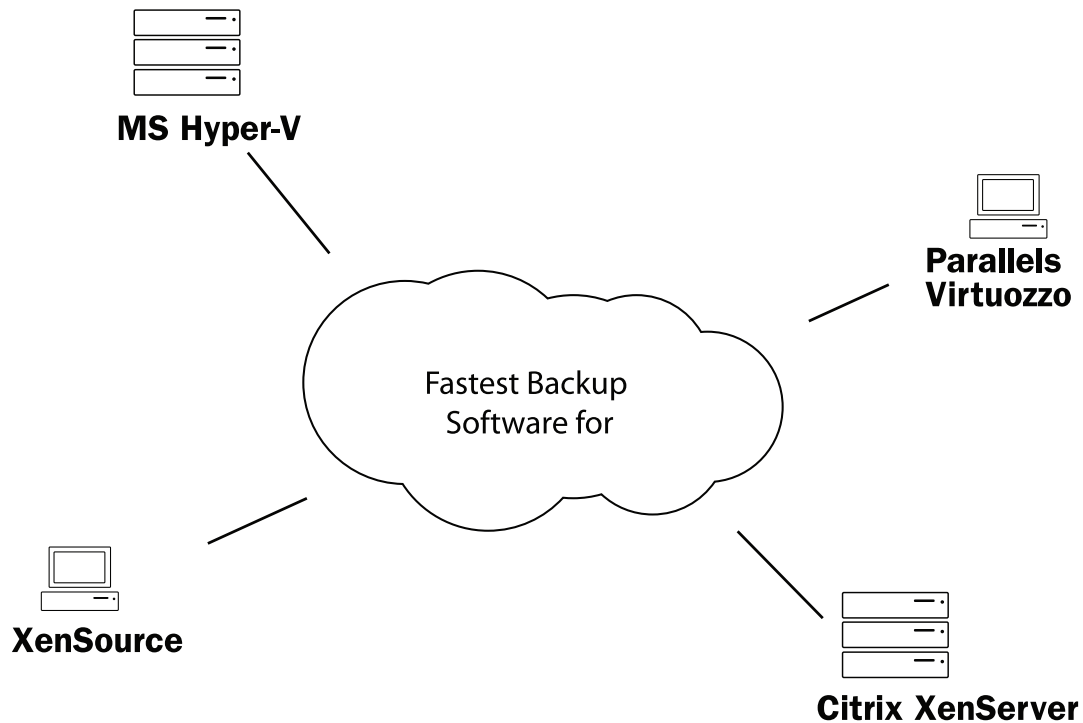**Central management allows administrator to manage up to 100 servers**

Central backup storage repository (Disk Safe)

Web Console with multiple user/tenant views

Key Benefits

- Backup Servers in Minutes
- 30+ Servers per Repository
- Central User Interface
- Bare-Metal Restore
- Archive 100s of Recovery Points
- Open File Backups
- Disaster Recovery for MySQL Databases
- True-Granular™ table-level restore for MyISAM and InnoDB

- Multi-Tenant
- Storage Quotas
- Billing / Provision API
- SQL Server Disaster Recovery
- Exchange Disaster Recovery
- Compliance: PCI HIPAA GLBA SOX

MS Hyper-V

Parallels
Virtuozzo

Fastest Backup
Software for

XenSource

Citrix XenServer

R1Soft CDP is the only Continuous Data Protection software for the Cloud and Virtualization

The largest challenge for virtualization is Disk I/O !
Don't waste all your precious storage bandwidth on backups! R1Soft CDP is the least impactful backup software on disk storage with the shortest backup windows. Nothing else comes close. After one initial replica create **recovery points in just minutes.**

XenSource & Citrix XenServer

CDP Enterprise can now protect virtual disks for both Windows & Linux guests on both Windows and Linux dom0 physical machines.

Hyper-V

Protect all of your VHDs with one single install of the CDP Agent. Using MS Volume Shadow Copy each VHD and the files inside are protected.

Virtuozzo

Linux Virtuozzo Containers – 1 Single R1Soft CDP Agent to protect all of your Linux Virtuozzo containers.

Windows Virtuozzo – 1 Single R1Soft CDP Agent uses MS Volume Shadow Copy to snapshot each Virtuozzo virtual disk.

CDP Enterprise Edition
Top Benefits

Bare-Metal Disaster Recovery for Windows and Linux
Bare-Metal Disaster Recovery: Restore servers directly from disk-based backup. Unlike traditional backup software, there is no need to first partition your drive and install the operating system.

High Performance
Sector-based backups increase throughput and reduce overhead. Servers maintain high performance during backups, even on busy servers.

Small Backup Windows
Only changed disk sectors are copied between backups. Incremental backups can now be completed in minutes.

Open File Backups
R1Soft is a total solution including built-in support for backing up open files. NO 3rd party software is required.

Snapshots
Our technology provides consistent point-in-time, system-wide backup images.

Near-Continuous Data Protection ®
During normal host operation, the R1Soft CDP Agent keeps a journal of disk changes. Incremental backups know which sectors on the disk have changed. This eliminates the need for file-by-file or block-by-block comparisons every backup.

Designed with Resellers in Mind
Delegate control to different administrators on a server-by-server basis.

Remote Administration
Software can be completely controlled offsite using a Web-based interface.

Compression
Incremental sector-based backups ignore unused portions of the disk and copy only the disk sectors that have changed since the last backup. When used with traditional compression, this reduces backup storage by as much as 90% when compared to a traditional system-wide, file-by-file backup.

End-to-End Strong Encryption
Data is continuously encrypted while in storage and during network transmission using RSA keys. Decryption during a restore is only possible when the encryption key holder enters their pass phrase.

Data Integrity
During backup and restore, data is verified using MD5 checksums.

How does your current Backup Solution compare to R1Soft CDP Server 2.0

R1Soft — Continuous Data Protection® — Tools for Windows and Linux

	R1Soft CDP Server	rsync	Zmanda (MYSQL)	Evault / i365	Tar	Commvault	Acronis	Symantec - Live State	AhSay	EMC - Retrospect	LVM Snapshots	IBM - Tivoli
Backup Method	Virtual Full	Full / Incremental / Deferential — Note: rsync is Incremental / full ONLY				Full / Incremental						
Data Lost in Disaster	Minutes	Days				Days						
Backup Window length	Minutes	Time it takes to read data				Time it takes to read data						
Point-in-Time Snapshots (Open File backups)	●	N	N	N	N	●	●	●	N	●	●	
Bare-Metal Restore	●	Not Possible				Possible on some (Ahsay & EMC - No BMR)						
Scale Well on Large File System	●	N	N	N	N	●	●	N	N	●	N	
Manage Thousands of Servers	●	N	●	●	N	●	N	N	N	N		●
Significantly Reduce Disk load	●	Absolutely Not										

Windows Servers

	R1Soft CDP Server	rsync	Zmanda (MYSQL)	Evault / i365	Tar	Commvault	Acronis	Symantec - Live State	AhSay	EMC - Retrospect	LVM Snapshots	IBM - Tivoli
Exchange Disaster Recovery	●	N	●	●	N	●	●	N	●	●	N	●
SQL Server Disaster Recovery	●	N	●	●	N	●	●	N	●	●	N	●
Continuous Data Protection (CDP)	●	(CDP) Not available										
Volume Shadow Copy Support	●	N	●	N	N	●	●	●	●	●	N	●

Reselling Capabilities

	R1Soft CDP Server	rsync	Zmanda (MYSQL)	Evault / i365	Tar	Commvault	Acronis	Symantec - Live State	AhSay	EMC - Retrospect	LVM Snapshots	IBM - Tivoli
Manage Users	●	N	N	●	N	N	N	●	N	N	N	
Customer self-managed backup and restore	●	N	N	●	N	N	N	●	N	N	N	
Storage Quotas	●	N	N	●	N	N	N	●	N	N	N	
Control Panel Integration with Ensim, Plesk, Cpanel, and DirectAdmin	●	No Control Panel Integration **available**										

MySQL Backups

	R1Soft CDP Server		
Data Lost in Disaster	Minutes	In the event of a Database Disaster amount of data lost is **DAYS WORTH**	
Backup Window on Large Databases	Minutes	It can take **HOURS** to restore database in a disaster	
Hot Backup Without Interruptions	●	Not Available	
Table Level Restore	●	Not Available	
Continuous Data Protection (CDP)	●	Not Available	

Legend:
- ● YES
- ▌ LEGACY BACKUPS
- ▌ ONLINE BACKUPS

High-Performance Enterprise Backups

R1Soft Continuous Data Protection®, Tools for Windows & Linux

Can your backup software do this?	R1Soft CDP Server	Acronis® True Image	EMC Retrospect ®
Daily Backups	✅	✅	✅
Hourly Backups	✅	Not Supported	Not Supported
Open File Backups	✅	✅	Not Supported
Bare-Metal Restore	✅	✅	Not Supported
Continuous Data Protection®	✅	Not Supported	Not Supported
Restore Linux LVM	✅	Not Supported	Not Supported
Restore Linux Software RAID	✅	Not Supported	Not Supported
Easy-to-use Web Interface	✅	Not Supported	Not Supported
Manage Thousands of Servers	✅	Not Supported	Not Supported
Control Panel Integration	✅	Not Supported	Not Supported
Ask about Hosting Partner Program	**$349/agent**	**$853/agent**	**You Can't Afford It**

*Available Add-ons

CDP for MySQL Add-on: True-Granular Restore™, Bare-Metal Restore for MySQL databases Store 100s recovery points per day, Table Level Restore for MySQL and more.. Zero Downtime during Backups

CDP Backup for the Cloud: Fastest Backup Software for Paralells Virtuozzo, Citrix XenServer, MS Hyper-V

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