# DPX

# Catalogic DPX Backup Appliances

## Easy, turn-key solutions for all-purpose data protection

## Catalogic DPX vStor Appliance Highlights

- Fast and reliable low-impact backup for physical and virtual environments

- Easy to deploy, pre-configured backup hardware

- Direct access to data images for near-instant restore

- Data replication supports remote sites and Disaster Recovery

- Direct export to tape for long-term archive

- Wide range of support for operating systems and applications

- Push-button data re-use to support non-recovery use cases such as dev-test, reporting, analytics, etc.

- Bare Metal Recovery to restore physical servers, as well as P2V, V2V and V2P recovery

- Easy object-level recovery for Exchange emails, SharePoint objects, SQL Server tables, etc.

- Industry leading customer satisfaction ratings for tech support team

CATALOGIC SOFTWARE

# Introduction

*Catalogic DPX vStor appliances are cost-effective backup hardware solutions that let you quickly deploy a new DPX infrastructure or add secondary storage to your existing DPX enterprise.*

*Backup management is provided by Catalogic DPX, an industry-standard backup platform with a wide range of coverage for applications and operating systems. DPX features both agent-based and agentless backups.*

*Catalogic appliances run the Catalogic vStor backup operating system based on the highly scalable open-source ZFS file system. vStor offers platform-native snapshots that are integrated with DPX block-level backups for instant data and system recovery.*

*In addition, vStor provides data reduction via both data deduplication and compression. Replication is included, allowing you to easily send backup images off-site to another appliance. Tape export is available via the on-board SAS port, or users can add an optional fibre channel card to the appliance.*

## DPX Appliance Data Protection Features

Driven by DPX software, vStor appliances offer fast, low-impact backup for both physical and virtual servers. DPX offers multiple backup options, including agent-based block-level backup, agentless virtual machine backup, file level backup, NDMP and more. DPX supports a wide range of operating systems (Windows, Linux, Micro Focus Novell OES, Unix) and applications (Microsoft SQL Server, Microsoft Exchange, Oracle, GroupWise, etc.).

The following provides highlights of what DPX can deliver. For complete details, visit the DPX product page online.

### Low-Impact Data Protection

Catalogic's patented block-level backup technology reduces backup times by 90% and you almost never have to troubleshoot a backup failure. You can have peace of mind that your data is reliably protected and will be there when you need it.

## Rapid Data and System Recovery

DPX uses patented *Instant Virtualization* technology to quickly restore backups as working virtual machines (both V2V and P2V). *Instant Access* technology maps snapshots to servers for immediate data access. You can rapidly recover files as well.

## Tape Support

DPX includes full-fledged support for multiple tape drives and formats. Data can be moved to tape directly from the vStor appliance giving you a low-cost option for archive and long-term storage.

## Bare Metal Recovery

Rapid and easy-to-use Bare Metal Recovery (BMR) remains a critical data protection component. The problem is that many BMR tools are cumbersome to use and require multiple, error-prone steps. Catalogic's simple, three-step BMR process will change the way you think about BMR.

## Ransomware Protection

When ransomware strikes, the only recourse is to have a secure backup. With DPX, you can back up your critical systems more frequently, which means you'll lose less data when you need to recover. DPX provides multiple recovery points so you can spin the clock back to just before the infection happened.

## Cloud Integration

Organizations are increasingly moving to the Cloud for long term backup storage. Catalogic DPX makes it easy for you to send backup images into the Cloud and to find them easily when you need them. Backups can be sent directly into the Amazon Cloud or Microsoft Azure.

## Remote Office Backup

Protecting remote offices has always been a challenge. A small Catalogic vStor appliance can function as a local backup repository at a remote office, while replicating data to a larger appliance in the data center.

# Appliance Deployment Architecture

The complete DPX solution includes the DPX Master Server, the vStor appliance, host system agents and optional tape support.

- **DPX Master Server**
  The Master Server provides backup management such as setting backup schedules and data retention. It is also used to drive data and system recoveries. The Master Server is provided as an easy-to-install virtual appliance.

- **vStor Backup Appliance**
  The vStor physical storage appliance is available in various configurations (see table below). Storage is managed via the vStor administration console which lets you create storage volumes, configure volume replication, track storage consumption, etc. The vStor console can be launched from within the DPX Master Server.

- **Host System Agents**
  DPX provides low-impact block-level backup agents for Window and Linux systems. They can be used on both physical and virtual servers. VMware-based virtual servers can also be backed up using Agentless technology. Other operating systems such as Solaris and Novell OES can be protected using DPX file level agents.

- **Tape Connection (optional)**
  The vStor appliance supports tape connections via either the on-board SAS port, or an optional FC card.  DPX software is fully tape-aware and backups can be scheduled to move to tape on a regular basis.

# Appliance Models

vStor appliances are built on high-performance hardware provided by ZeroWait. There are three default sizes, and any appliance can be customized with additional disk shelves. For operational speed, high performance SSDs are provided for operating system and logs. Storage is provided by high-capacity Seagate SATA drives.

vStor appliances can be purchased along with DPX software, or as standalone hardware for existing DPX environments.

Appliances are built with a 2U, 12-bay chassis with redundant hot-swap power supplies, hot plug fans, and hot swap drive bays.  36- and 60-bay chassis are available for custom configurations.

| Model Name | vStor25T | vStor50T | vStor100T |
|---|---|---|---|
| Usable storage (raw) | 24 TB | 48 TB | 100 TB |
| Disk configuration | (8) 3 TB disks + 1 spare | (8) 6 TB disks + 1 spare | (10) 10 TB disks + 1 spare |
| Additional bays for expansion | 3 | 3 | 1 |
| SSD Drive | Intel SSD P4800X 375GB | Intel SSD P4800X 375GB | Intel SSD P4800X 375GB |
| Processor | Intel Xeon Quad Core, C602 Chipset (2) | Intel Xeon Quad Core, C602 Chipset (2) | Intel Xeon Quad Core, C602 Chipset (2) |
| Memory | 64 GB | 64 GB | 64 GB |
| Networking Ports | (2) 10GbE RJ-45 Ports | (2) 10GbE RJ-45 Ports | (2) 10GbE RJ-45 Ports |
| FC NIC for Tape Output (optional) | QLogic Dual Port 8GB | QLogic Dual Port 8GB | QLogic Dual Port 8GB |
| DPX Backup License (optional) | 12 TB front-end capacity | 24 TB front-end capacity | 50 TB front-end capacity |

## Conclusion

The Catalogic DPX vStor backup appliance is a modern secondary storage solution designed specifically to support Catalogic DPX data protection software.  It provides a cost-effective and highly efficient data storage repository that can be built to meet your specific cost and performance requirements.