Catalogic DPX 4.6.1 Compatibility Guide

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Operating System Compatibility	Block-level and file-level features are available for major versions of the following operating systems.			
	Microsoft Windows	Red Hat Enterprise Linux	Centos	SUSE Linux Enterprise
	Oracle Linux			
	File-level features are available for major versions of the following operating systems.			
	Oracle Solaris	IBM AIX		
	Canonical Ubuntu	Debian GNU/Linux	Novell (Micro Focus) Open Enterprise Server (OES)	
Database and Application Compatibility	Block-level and file-level features are available for major versions of the following databases/applications.			
	Microsoft Exchange	Microsoft SharePoint	Microsoft SQL Server	Oracle Databases
	File-level features are available for major versions of the following databases/applications.			
	IBM DB2	IBM Lotus Notes / Domino	Novell (Micro Focus) GroupWise	SAP R/3
	SAP HANA			
Virtual Systems Compatibility	VMware Virtualization		Microsoft Hyper-V	

General Information

Revision

This reference applies to Catalogic DPX 4.6.1. Compatibility Guide last revised on 10/28/2020. If you are using an earlier release of DPX, see the Compatibility Guide for that release, available on MySupport.

Scope

The Catalogic DPX Compatibility Guide contains the latest system requirements and compatibility details regarding supported hardware, file systems, applications, operating systems, and service packs.

Terms Used in this Guide

- **Master Server (Appliance):** A server that contains the DPX product, including the Catalog and modules that control media management, scheduling, and distributed processing. This is deployed in the form of an OVA and may be referenced as the DPX master, DPX master virtual appliance, or virtual appliance.
- **Device Server:** A node to which one or more storage devices (tape, VTL, disk) are attached.
- **Management Console:** A graphic user interface with visual methods for performing product functions.
- **Basic Client:** A computer that contains the data, applications, and operating systems that are protected at file-level.
- **DPX Block Data Protection (Block Backup):** A protection and recovery model that comprehensively backs up open systems such as Windows and Linux to disk-based storage using Catalogic's block-level agent. Features include block-level incremental snapshot technology, Instant Access and Instant Virtualization, source and target side data reduction, Bare Metal Recovery, and application recovery. DPX Block Data Protection supports the following features:
  - **DPX Open Storage Server (OSS; formerly called AROS or DOSS):** A computer that can store protected data on local or attached disk storage. This is one destination for Block backups. This feature applies to DPX 4.2 and later.
  - **DPX Client:** A computer that contains the data, applications, volumes, and operating systems that are protected with Block backup.
  - **Bare Metal Recovery (BMR):** A feature that provides point-in-time server recovery of a DPX Client using Block backups.
  - **Application Recovery:** A DPX Block Protection feature that rapidly recovers data from Microsoft SQL Server, Microsoft Exchange, and Oracle.
  - **Instant Access (IA):** A feature that provides instantly writable access to data and application recovery points. A Block backup snapshot is mapped to a target server where it can be accessed, copied, or put immediately into production use as needed.
  - **Instant Virtualization (IV):** A feature that enables customers to create a virtual machine in an ESXi server from any recovery point on any Windows and Linux physical or virtual server. IV creates a virtual machine in the virtual machine host without restoring data from the selected recovery point. This operation does not physically transfer data to the virtual machine and makes it possible to complete a disaster recovery operation of a physical or virtual server in minutes, without recovery storage requirements.
  - **Full Virtualization (FV):** A feature that enables customers to create a virtual machine in an ESXi server from any recovery point on any Windows and Linux physical or virtual backed up instance. FV creates a virtual machine in the virtual machine host that contains a clone of the backed up server. If the backed up server is physical, FV performs a physical-to-virtual (P2V) operation.
  - **Agentless VMware Backup:** A feature that exploits VMware vStorage application programming interface for data protection and Change Block Tracking to enable off-host backup of vSphere virtual machines through DPX proxy servers, eliminating the need to install and run a backup agent on virtual machines or ESXi servers.

- **vStor Server:** A physical or virtual appliance that can serve as your DPX primary backup destination. vStor servers are supported with Block or Agentless backups.

- **SAN Device Server:** A device attached to Storage Area Network. Catalogic Software supports any combination of UNIX, Windows, NetWare/OES, Linux, and NDMP/NAS in a SAN.
- **Image Backup for seeding:** A technology used to transfer a Block Backup base to a remote location via tape. This is useful for initiating the Block Backup relationship when nodes exist across low bandwidth WAN links.
- **Application Interfaces:** A set of features that interface with Microsoft Exchange, Microsoft SQL Server, Microsoft SharePoint, Oracle, IBM DB2, IBM Lotus Notes, Novell (Micro Focus) GroupWise, and SAP R/3.
- **NDMP Backup:** A feature that uses Network Data Management Protocol (NDMP) to coordinate backup and restore operations between NDMP compliant devices using vendor-specific data formats. NetApp supports DUMP and SMTAPE data formats. Other vendors may support TAR or other data formats. Vendor data formats are proprietary, thus restore operations must be performed to systems similar to the backup source.

Backward Compatibility

Master server, device server, Open Storage Server and all nodes operating as proxy servers for NDMP communication and for Virtualization functions must be on the same release version.

DPX 4.6 master server supports clients running DPX 4.6, DPX 4.5, and DPX 4.4. Backward compatibility is available to help ease Enterprise migrations.

To assure the most reliable operation and enable the most efficient support, it is strongly recommended that clients be upgraded to the same version as the master server as soon as it is practical and that all components (servers and clients) are kept current to the latest patch level for their release version.

New features or enhancements to features in a new release will not be available for prior versions. New technical issues found with older client software may require upgrade to correct or continue troubleshooting.

Master Version	Compatible Client Versions			
4.6	4.6	4.5	4.4	
4.5	4.5	4.4	4.3	
4.4 [1]		4.4	4.3	4.2
4.3		4.3	4.2	4.1
4.2			4.2	4.1

Note:

1. To facilitate use of NetApp ONTAP 8.3.1, clients must be at DPX 4.4.

Support LifeCycle Schedule

The Support LifeCycle Schedule provides advanced notification of planned changes in product support. This information helps customers and partners with product planning and information technology decisions. Catalogic regularly reviews system and application popularity and will include and exclude various features on a regular basis.

Full support includes software maintenance updates, content updates, software fixes, knowledge base support and access to Catalogic support engineers per terms of the maintenance agreement. DPX releases typically reach General Availability (GA) approximately once a year.

The extended support starts when full support has ended and includes access to Catalogic support engineers per terms of the maintenance agreement, access to already existing software updates/fixes and knowledge base support but excludes new software maintenance and new content updates. The investigation of new issues is limited and does not include any software development.

Catalogic support of operating systems and applications parallels that of the third-party vendors: when third-party vendor products go into extended support, self-serve support, or end of life, Catalogic generally does the same.

End-of-Support Schedule for DPX/NSB Versions

Release	GA Date	End of Full Support	End of Extended Support
4.6	11/11/2019	11/11/2021	11/11/2023
4.5	04/28/2017	06/25/2019	06/25/2021
4.4	08/03/2015	08/03/2017	08/03/2019
4.3	05/30/2014	05/30/2016	05/30/2018
4.2	10/09/2013	09/30/2015	09/30/2017
4.1	02/04/2013	01/31/2015	01/31/2017
4.0	12/16/2011	11/30/2013	11/30/2015

End-of-Support Schedule for DPX/NSB Feature Support

DPX/NSB features listed in the table below are not available for sale. Extended support for these features will be available through the dates shown.

The extended support includes access to Catalogic support engineers per terms of the maintenance agreement, access to already existing software updates/fixes and knowledge base support but excludes new software maintenance and content updates. The investigation of new issues is limited and will not include any software development.

Any support requests for the releases beyond their extended support dates are handled on a case by case basis by Catalogic support engineers.

DPX/NSB Features	End of Extended Support
Operating Systems	
Microsoft Windows 2008	09/30/2020
32-bit Microsoft Windows (x86)	04/30/2017
RHEL/Centos 5.x	04/30/2017

DPX/NSB Features	End of Extended Support
Canonical Ubuntu 12 [1]	04/26/2017
32-bit Lunux (x86)	12/31/2016
SUSE Linux Enterprise Server 10 [1]	07/31/2016
HP-UX 11i v2 (B.11.23) [1]	12/31/2015
Microsoft Windows 2003 and Applications on Windows 2003 [2]	12/31/2015
Canonical Ubuntu 14 [1]	07/23/2015
HP-UX 11i v3 (B.11.31) [3]	12/31/2014 [3]
Databases and Applications	
Microsoft SQL Server 2005 [1]	04/12/2016
Oracle 11g R1 [1]	08/31/2015

Note:

1. These operating systems and applications are no longer supported by their respective vendors.
2. Microsoft support for Windows 2003 ended on 07/14/2015. DPX 4.4 master supports Windows 2003 as a DPX 4.3 client.
3. HP-UX 11i v3 is obsolete on 12/31/2014. DPX support for HP-UX 11i v3 is limited starting with DPX 4.4.0 PL0025.

Cloud Storage Support

Cloud Storage	Backup Type	DPX Destination Device
AltaVault	File level backup, NDMP level backup	Disk Directory
Amazon Web Services (AWS) [1]	File level backup, NDMP level backup	Disk Directory and VTL (Virtual Tape Library)
Microsoft Azure	File level backup, NDMP level backup	Disk Directory and VTL (Virtual Tape Library)
MinIO	Agentless archive, NDMP level backup	AWS Cloud device
NetApp StorageGRID	Agentless archive, NDMP level backup	AWS Cloud device

Note:

1. AWS Storage gateway and virtual tape libraries are support. For NDMP and agentless archive are supported on Catalogic vStor via S3 API.

NetApp Compatibility

DPX supports NetApp storage systems, running Data ONTAP. DPX supports the following features with NetApp:

- Block backup
- NetApp OSSV backup
- SnapVault management

Data ONTAP Versions	NetApp Software	Supported Agents	Requirements
9.7 [8], 9.6 [8] 9.5 [8], 9.4 [8], 9.3 [8], 9.2 [8], 9.1 [8], 9.0 [8], 8.3.0 or later 8.2.3 or later [1]	Clustered Data ONTAP (CDOT)	- Catalogic DPX Agentless [9] - Catalogic DPX Agent for Windows [6] - Catalogic DPX Agent for Linux [7,9]	- FlexClone license is required - iSCSI license is required - NFS license is required only for DPX Agent for Windows
8.2.0 or later, 8.1.0 or later, 8.0.1 or later, 7.3.1 or later [1,2,3]	Data ONTAP 7-mode	- Catalogic DPX Agentless [5][9] - Catalogic DPX Agent for Window and Linux [9] - NetApp OSSV Agent for Solaris and AIX [4] - Data ONTAP Snapvault Primary to Secondary (controller to controller) [4]	- SnapVault Secondary license is required. - FlexClone license is required - iSCSI license is required

Note:

1. Compression is supported for Data ONTAP 8.0.1P4 or later; NetApp's Advanced Single Instance Storage (A-SIS) deduplication is supported for Data ONTAP 7.3.1 or later.
2. NetApp ONTAP Edge-T is supported as a data protection target.

3. vFiler use (MultiStore licensing) for NDMP and Block backup is only supported for Data ONTAP 8.2.1 and later.
4. SnapVault support is limited to 7-mode. SnapVault backup between 7-mode and Clustered Data ONTAP is not supported.
5. DPX Agentless supports Data ONTAP 8.1 and later.
6. Backup of Oracle on Windows to a NetApp CDOT target is not supported.
7. Uses iSCSI transport protocol. Support for remote locations is limited.
8. Supported with compatibility mode only. DPX does not support new features specifically introduced in ONTAP 9.x release.
9. BMR recovery for machines using GPT disk is now supported for Linux. Instant Virtualization and Full Virtualization for machines using GPT disk are now supported for Linux.

NDMP Backup Support

All NetApp supported versions of Data ONTAP are supported for NDMP Backup [1,2,3].

Note: Block and NDMP support for vFiler is limited to vFiler0 for Data ONTAP 8.2 7-mode and earlier.

1. SMTAPE incremental is not supported.
2. NetApp AltaVault Cloud-integrated storage is supported for File and NDMP backup and recovery.

NAS devices from other vendors that fully support NDMP V3 or V4 can be supported for NDMP backups.

vStor Server

For a quick, safe, complete, and versatile data protection and recovery strategy, Catalogic has developed the vStor server. The vStor server, connected to disk storage pools, is a reliable streamlined tool that can serve as your DPX primary backup destination. A vStor server can be installed on either a virtual or physical appliance any time after DPX is installed and deployed.

vStor servers can be deployed through the following formats:

Physical vStor server installed on a physical machine
Virtual vStor server installed in a VMware environment

For backups to and recoveries from a vStor server, both Block backups and Agentless backups are supported. File backups and Image backups are not supported.

BMR recovery is supported for Windows Block backup to vStor servers and for Linux Block backup to vStor servers. Linux client node requires kernel 3.10 or later.

For Block backups to vStor, the Backup client must be running DPX 4.5.2 or later. For Agentless backups to vStor, the virtualization proxy server must be running DPX 4.5.2 or later. Windows virtualization proxy servers are not supported for DPX 4.5.2 for vStor.

The following Linux operating systems are supported for physical vStor installations:

CentOS Linux 7.5.1804 (x86_64) Minimal Server
CentOS Linux 7.4.1708 (x86_64) Minimal Server
CentOS Linux 7.3.1611 (x86_64) Minimal Server

RedHat Enterprise Linux 7.4 (x86_64) Minimal Server
RedHat Enterprise Linux 7.3 (x86_64) Minimal Server

Disk to vStor to media archiving is supported for Block and Agentless backups.

Encryption Compatibility

DPX Software Encryption Compatibility

The requirements for DPX Device Servers in the table below must be met for software encryption. Encryption support is limited to DPX Basic clients.

Device Server
▪ Windows 2016 ▪ Windows 2012 R2 (x64) ▪ Windows 2012 and 2008 R2 (x64) ▪ SLES 15 (x64) or later ▪ SLES 12 (x64) or later ▪ SLES 11 SP1 (x64) or later ▪ RHEL and CentOS 7 (x64) or later ▪ RHEL and CentOS 6 (x64) or later ▪ Solaris 11 and 10 SPARC (64-bit) ▪ AIX 6 (64-bit) (RISC) or later

DPX Hardware Encryption Compatibility

Device Server (FILE support) / Proxy Server (NDMP support)	IBM LTO[1,2]	HP LTO[1,3]	Quantum LTO[1,4]
Windows 2012 R2	Y	N	N
Windows 2012 and 2008 R2 (x64)	Y	N	N
SLES 11 SP1 (x64) or later	Y	Y	Y
RHEL and CentOS 6 (x64) or later	Y	Y	Y
Solaris 11 and 10 SPARC (64-bit) or later	Y	N	N
AIX 6 (64-bit) (RISC) or later	Y	Y	Y
NetApp [5]	Y	Y	Y

Note:

1. Encryption support is limited to DPX Basic clients.
2. IBM Drives with IBM driver.
3. HP Drives with BEXSPTAPE interface.
4. Quantum Drives with BEXSPTAPE interface.
5. NDMP hardware encryption requires that the tape device be connected to a NetApp Storage System. Clustered Data ONTAP Vserver support is available in DPX 4.2.0 and later with Data ONTAP 8.2 and later. Tape Drive is local or connected to another NetApp controller.

NDMP Encryption Compatibility

The requirements for DPX proxy servers in the table below must be met. NDMP hardware encryption requires that the tape device be connected to a NetApp Storage System. Clustered Data ONTAP SVM support is available in DPX 4.2 and later with Data ONTAP 8.2 and later. The following platforms are supported for NDMP Proxy servers

- Windows 2016
- Windows 2012 and 2008 R2 (x64)
- SLES 11 SP1 (x64) or later
- RHEL and CentOS 6 (x64) or later

Hardware Compatibility

Tape Library / Virtual Tape Library / Standalone Tape Device

Catalogic Software supports tape devices that are compliant with the SCSI-2 standard. Tape drives must support variable length records and allow a minimum transfer size of 32 KB.

Catalogic Software supports media changers that are compliant with the SCSI-2 standard. Additionally, media changer support on Windows requires Windows NT SCSI Pass-Through support from the HBA driver or a vendor-supplied media changer driver supporting Windows NT SCSI Pass-Through.

Unless otherwise advised by Catalogic Data Protection Technical Support, the operating system of the Device Server that connects the tape or tape library device should have properly installed drivers that are recommended by the device manufacturer.

No troubleshooting or bug fix support is offered for devices that are no longer supported by the hardware vendor. Minimal troubleshooting and no new development will be done for devices connected to operating systems that are no longer supported by the vendor.

DPX treats a Virtual Tape Library (VTL) device as a regular tape library and supports it the same way it does for tape libraries.

Tape library and tape drive support includes, but is not limited to, the following:

- HP LTO8
- HP LTO7
- HP LTO6
- HP LTO5
- IBM LTO7
- IBM LTO6
- IBM LTO5
- HPE MSL 3040
- HPE MSL 6480
- Oracle SL150
- Dell TL2000
- Overland NEOxl 80
- Quantum i500
- Quantum Scalar i6000

Java Requirements for Management Console

Each release of the management console has specific requirements for the Oracle Java JRE. The following Java versions are required for DPX 4.4, DPX 4.5, and DPX 4.6:

- JRE 1.8 TLS protocol must be enabled on NetApp targets.

Note: Oracle has changed their licensing model for JRE. An alternative to JRE is OpenJDK. If using OpenJDK, version 8, 9, or 10 has to be installed on a Windows or Linux node. Information on OpenJDK may be found here: https://adoptopenjdk.net/releases.html.

It is strongly suggested to access the appliance with the management console that came packaged with it. Accessing the DPX appliance with an older management console is not supported. Accessing a master server with a newer console may not work as expected.

Virtual Systems Compatibility

VMware Virtualization

DPX provides the following types of protection for VMs:

- Agent-based Block Backup
- Agentless VMware Backup. Agentless VMware Backup supports OSS as backup destination with DPX 4.4.0 PL0025 and later.

Ensure the latest version of VMware Tools is installed in your environment.

Agent-based Block Backup

Agent-based Block Backup for Virtualization is a Virtual Machine (VM) backup solution in which DPX client software is installed on each VM you want to protect. DPX supports agent-based Block Backup for Virtualization with VMware vApps, vFolders and resource pools.

Agent-based Block Backup is recommended for protecting applications such as Microsoft Exchange, Microsoft SharePoint, and Microsoft SQL Server residing on a virtual machine, assuring application consistent backups and proper transaction log truncation. Additionally, Kroll tools provide granular application object recovery support. Kroll Ontrack tool provides for granular search and recovery of individual mailbox items (emails, calendar, contacts, etc.), and provides for search and recovery of entire Microsoft SharePoint sites or individual Microsoft SharePoint server objects such as documents, lists, libraries, and folders. Kroll SQL tool provides the ability to preview table contents and to restore SQL tables without restoring the entire database.

The current version supported by DPX is Kroll OnTrack PowerControls 9.0.

Agentless VMware Backup

Agentless VMware Backup eliminates the overhead of installing and maintaining a backup agent on each VM. DPX backs up the VMs through the vCenter and DPX virtualization proxy server, each of which must be added to the DPX Enterprise. The DPX virtualization proxy server handles VMware snapshot processing and communicates with the storage destination and master server. Agentless VMware Backup supports auto-discovery and protection of new and modified VMs. For a complete list of OS versions, please refer to VMware Compatibility Guide at VMware website.

Using Agentless VMware Backup to protect VMs has significant advantages, including simplified administration and tight integration with VMware vCenter. Users have a wide range of recovery options available. These include the same Instant Virtualization and Full Virtualization features available with DPX agent-based backups. In addition, "Instant VMDK" allows rapid mapping of VMDK (Virtual Machine Disk) images back to the same VM or an alternate VM. VMDKs can also be mapped to physical servers to share data across physical/virtual boundaries.

DPX supports crash-consistent backup of all guest operating systems that are supported by vSphere 6.0 and later using the VADP interface and DPX's agentless feature. Please refer to VMware's compatibility website (http://www.vmware.com/resources/compatibility/search.php) for a complete list of OS versions.

DPX supports application-consistent backup using DPX's Agentless feature. Refer to the Agentless VMware Backup Chapter in DPX Users Guide.

Supported vSphere Version
6.7 (vSphere) [1, 2, 3]
6.5 (vSphere) [1, 2, 3]
6.0 and later (vSphere) [2]

Note:

1. DPX 4.5.0 supports only Windows-based virtualization proxies for vStor targets. Starting with DPX 4.5.1, Linux-based virtualization proxies for vStor targets are supported.
2. DPX supports Virtual Volume (VVol) datastores for Agentless VMware backup to NetApp and vStor storage. VMware Virtual SAN (vSAN), a network-based storage solution with direct attached disks, does not support the SAN transport mode for VADP backup. Because vSAN uses modes that are incompatible with SAN transport mode, if the virtual disk library detects the presence of vSAN, VADP SAN transport modes are automatically disabled. The other transport modes for VADP backup will continue to operate.
3. Rapid Return to Production (RRP) requires a Storage vMotion license on vSphere. See the "Rapid Return to Production" section in the DPX User's Guide.

Microsoft Hyper-V

Catalogic Software provides DPX Block Data Protection for virtualization to protect Hyper-V environments. This is an agent-based solution where a DPX client agent must be installed on each guest virtual machine that is protected by DPX.

Operating System Compatibility

Microsoft Windows

DPX Data Protection does not support Veritas volume management and Veritas cluster.

OS	Master Server / OVA Appliance	Device / SAN Device Server	DPX Open Storage Server	Basic Client	DPX Client	Mgmt Con-sole	Open File Manage-ment	Image Backup for Seeding	BMR	NDMP Proxy	Cluster Support	Supported File Systems for Block Backup
Windows Server 2019	Y [18]	Y	Y[14]	Y[2,6]	Y[5,9]	Y	Y[6]	Y[11,12]	N[16, 17]	Y[7]	Y[4,15]	NTFS[1,11], ReFS[12], DFS[13]
Windows Server 2016	Y [18]	Y	Y[14]	Y[2,6]	Y[5,9]	Y	Y[6]	Y[11,12]	Y[3, 17]	Y[7]	Y[4,15]	NTFS[1,11], ReFS[12], DFS[13]
Windows 2016 core x64	Y [18]	Y		Y[2]	Y		Y[6]	Y	Y[3, 17]	Y[7]		NTFS[1]
Windows 2012 R2 x64	Y [18]	Y	Y[14]	Y[2,6]	Y[5,9]	Y	Y[6]	Y[11,12]	Y[3, 17]	Y[7]	Y[4,10,15]	NTFS[1,11], ReFS[12], DFS[13]
Windows 2012 R2 core x64	Y [18]	Y		Y[2]	Y		Y[6]	Y	Y[3, 17]	Y[7]		NTFS[1]
Windows 2012 x64	Y [18]	Y	Y[14]	Y[2,6]	Y[5,9]	Y	Y[6]	Y[11,12]	Y[3, 17]	Y[7]	Y[4,10]	NTFS[1,11], ReFS[12], DFS[13]
Windows 2012 core x64	Y [18]	Y		Y[2]	Y		Y[6]	Y	Y[3, 17]	Y[7]		NTFS[1]
Windows 2008 R2 x64 (SP1 or later)	Y [18]	Y	Y[14]	Y[2,6]	Y[5]	Y	Y[6]	Y	Y[3, 17]	Y[7]	Y[4,10]	NTFS[1]
Windows 10 x64				Y[2,6]	Y[5]	Y	Y[6]	Y	Y[3, 17]	Y[7]		NTFS[1]
Windows 8.1 x64 (Professional, Enterprise, Ultimate) [8]				Y[2,6]	Y[5]	Y	Y[6]	Y	Y[3, 17]	Y[7]		NTFS[1]

Note:

1. a) Extended file system attributes are supported; b) FAT file system is not supported by Block backup.
2. File-level backup supports most OS supported file systems including extended file system attributes support for NTFS.
3. a) Recovery to dissimilar hardware is supported; b) Restore from an x86 machine to an x64 machine is supported but the operating system will not be upgraded; restore from an x64 machine to an x86 machine is not supported; c) BMR

is supported for GPT drives, including clusters; d) BMR ISO can be updated to include additional drivers before starting the BMR process on Windows 2008 R2 x64 and later; e) BMR is not supported with ReFS.

4. a) Master server installation on cluster is not supported; b) Active directory on cluster or application node is not supported; c) Device / SAN device servers on physical nodes are supported, but device servers are not cluster-aware and will not follow failover. Please refer to the Cluster Support documentation.
5. Active Directory can be backed up.
6. Open file management is supported for both block-level and file-level backups.
7. Can be used as a proxy for NDMP backup.
8. Supported only when the OS is used as a server.
9. System level restore (IV/FV/BMR) has one limitation: Storage space configuration will not be restored.
10. Failover cluster is supported where resources are owned by one node at a time. Hyper-V clustering and Cluster Shared Volumes in general are not supported.
11. NTFS deduplication is supported with DPX 4.3.0 Block backup. a) File History is not supported and disabled; b) Image Backup is not supported. Deduplication should be disabled on the server or volume for the duration of Image backup for seeding; c) Volume restore is optimized and selective file restore is not optimized; d) Do not enable deduplication on a DPX product volume for master and OSS, except the deduplication support for OSS on Microsoft Windows 2012 R2 has been on qualified with DPX 4.3.0 PL0148 and later; e) DPX Archive (sometimes refer to as Double protection) is not supported for client source volumes with deduplication set and OSS backup.
12. Windows ReFS support is with DPX 4.2.0 PL0069 and later. a) DPX does not support certain applications on ReFS, however DPX 4.5.1 and later supports Exchange 2016 and SQL2016 on REFS.; b) File History is not supported and disabled; c) Image Backup is not supported; d) DPX Archive is not supported.
13. a) Recovery to original location is supported; b) Restore to alternate location requires user intervention; c) DFS is not supported on Windows Cluster.
14. DPX open storage server supports direct attached storage, SAN, or iSCSI-attached storage devices. a) A minimum of 4 GB of available memory and a dual core CPU or two CPUs must be available; b) A highly reliable configuration such as RAID 5 with hot spares is recommended; c) This server is not supported on Windows Domain Controller machines; d) This server can be installed on NTFS of Windows Server 2008 R2 x64 and later; e) Backup data can be migrated from one DPX open storage server to another. See KB 46746 for details on setup and implementation; f) DPX 4.3.0 supports data verification on backup snapshots so that immediate corrective action can be initiated. See KB 46745 for details.
15. Windows 2012 R2 with Cluster Shared Volumes (CSV) configuration has limited support. For SQL Server support, refer to Microsoft SQL Server table.
16. Bare metal restore (BMR) Windows Server 2019 is currently not qualified.
17. When restoring from a Block Archive, only files and folders can be recovered. Bare metal recovery, instant virtualization, and full virtualization are not supported when restoring from Block Archive.
18. DPX Master Server can no longer be installed on Windows Servers. Users using DPX 4.5.4 can still upgrade DPX 4.5.4 to the most recent version. For new deployments, use the DPX Master Server virtual appliance.

Red Hat Enterprise Linux (RHEL) and CentOS

OS	Master Server	Device / SAN Device Server	Basic Client	DPX Client	Management Console	Open File Management	Image Backup for Seeding	BMR	NDMP Proxy	Cluster Support	Supported File Systems for Block Backup
CentOS 8.1 x64		Y [13]	Y							None	
CentOS 8.0 x64		Y [13]	Y							None	
CentOS 7.8 x64		Y [13]	Y							None	
CentOS 7.7 x64		Y [13]	Y							None	
CentOS 7.6 x64		Y [13]	Y							None	

OS	Master Server	Device / SAN Device Server	Basic Client	DPX Client	Management Console	Open File Management	Image Backup for Seeding	BMR	NDMP Proxy	Cluster Support	Supported File Systems for Block Backup
CentOS 7.5 x64	Y	Y [13]	Y	Y	Y [14]	Y [5]		Y [15]		None	
RHEL 8.1 x64		Y [13]	Y							None	
RHEL 8.0 x64		Y [13]	Y							None	
RHEL 7.8 x64		Y [13]	Y							None	
RHEL 7.7 x64		Y [13]	Y							None	
RHEL 7.6 x64	Y	Y [13]	Y	Y	Y [14]	Y [5]		Y [15]		None	
RHEL 7.5 x64	Y	Y [13]	Y	Y	Y [14]	Y [5]		Y [15]		None	Ext3, Ext4, XFS[10]
RHEL 7.0 - 7.4 x64 [9,12]	Y	Y	Y[2]	Y[3,11]	Y	Y[5]	Y[6]	Y[4,15]	Y[7]		Ext3, Ext4 [1], XFS[10]
RHEL 6.7 – 6.9 x64	Y	Y	Y[2]	Y[3]	Y	Y[5]		Y[4, 15]	Y[7]		Ext3, Ext4 [1]

Note:

1. Extended file system attributes are supported.
2. DPX file-level backup is supported with most OS supported file systems. Extended file system attributes are supported with EXT4/3/2, ReiserFS, and XFS. File-level backup for XFS file system is not supported for partitions above 1 TB; use block level backup technology to back up XFS partitions more than 1 TB.
3. LVM2 is required. Only the default uniprocessor or SMP kernel packages provided by the Linux vendor for the distribution are supported.
4. For BMR: a) Restoring to IDE or GPT disks on the target machine is not supported, however DPX 4.5.1 and later supports RHEL/Centos 7.3 and 7.4 using UEFI boot with GPT disk; b) Recovery to dissimilar hardware is supported but manual driver installation may be needed; c) For dissimilar hardware support, restore from an x86 machine to an x64 machine is supported but the OS won't be upgraded; restore from an x64 machine to an x86 machine is not supported; d) The physical disk size on the target machine must be less than 2 TB; e) Linux BMR support when the whole system is on multipath device is not supported. BMR for Linux using UEFI boot is unsupported.
5. Open file management is supported for block-level backup only.
6. Only base backup is supported (for seeding purpose).
7. Can be used as a proxy for NDMP backup.
8. PAE (Physical Address Extension) Kernel for 32-bit system is not supported.
9. File-level support qualified up to V7.1 with DPX 4.3.0 PL0232 and later. Agentless protection qualified.
10. File-level support qualified up to V6.7 with DPX 4.4.0 and later. Agentless protection qualified.
11. XFS BLI support requires V7.2 or later.
12. Block level support for Linux Hosts using Linux Native Multipath. Qualified for V7.3 only. Block level support for Linux host using UEFI boot is qualified for RHEL/Centos 7.3 or later.
13. Device server, proxy for agentless and NDMP, block and file level client are all qualified.
14. The Management Console is not available on OVA.
15. When restoring from a Block Archive, only files and folders can be recovered. Bare metal recovery, instant virtualization, and full virtualization are not supported when restoring from Block Archive.

SUSE Linux Enterprise (SLES)

OS	Master Server	Device / SAN Device Server	Basic Client	DPX Client	Mgm't Console	Open File Manage-ment	Image Backup for Seeding	BMR	NDMP Proxy	Cluster Support	Supported File Systems for Block Backup
SUSE Linux Enterprise Server 15 SP1		Y	Y[2]								Ext4[1], Ext3[1], ReiserFS[1, 8], XFS[12]
SUSE Linux Enterprise Server 15		Y	Y[2]								Ext4[1], Ext3[1], ReiserFS[1, 8], XFS[12]
SUSE Linux Enterprise Server 12 x64 SP3 [14,15,16]	Y	Y	Y[2]	Y[3]	Y	Y[4]		Y[5,17]	Y[6]		Ext4[1], Ext3[1], ReiserFS[1,8], XFS[12]
SUSE Linux Enterprise Server 12 x64 SP2 [13,15,16]	Y	Y	Y[2]	Y[3]	Y	Y[4]	Y[7]	Y[5,17]	Y[6]		Ext4[1], Ext3[1], ReiserFS[1,8], XFS[12]
SUSE Linux Enterprise Server 12 x64 SP1 [11, 12]	Y	Y	Y[2]	Y[3]	Y	Y[4]			Y[6]		Ext4[1], Ext3[1], ReiserFS[1,8], XFS[12]
SUSE Linux Enterprise Server 12 x64 [10]	Y[10]	Y	Y[2]	Y[3,10]	Y[10]	Y[4]			Y[6]		Ext4[1], Ext3[1], ReiserFS[1,8], XFS[12]
SUSE Linux Enterprise Server 11 x64 SP4 [9]	Y[9]	Y	Y[2]	Y[3,9]	Y[9]	Y[4]	Y[7]	Y[5, 17]	Y[6]		Ext3[1], ReiserFS[1,8]
SUSE Linux Enterprise Server 11 x64 SP3	Y	Y	Y[2]	Y[3]	Y	Y[4]	Y[7]	Y[5, 17]	Y[6]		Ext3[1], ReiserFS[1,8]

Note:

1. Extended file system attributes are supported.
2. File-level backup supports most OS supported file systems. Extended file system attributes are supported for EXT3/2, ReiserFS, and XFS. Extended file system attributes are supported for EXT4 for V11 SP2 and later.
3. LVM2 is required. Only the default uniprocessor or SMP kernel packages provided by the Linux vendor for the distribution are supported.
4. Open file management is supported for block-level backup only.
5. For BMR: a) Restoring to IDE or GPT disks on the target machine is not supported; b) Recovery to dissimilar hardware is supported; c) For dissimilar hardware support, restore from an x86 machine to an x64 machine is

supported but the OS won't be upgraded; restore from an x64 machine to an x86 machine is not supported; d) The physical disk size on the target machine must be less than 2 TB; e) Linux BMR support when the whole system is on multipath device is not supported. BMR for Linux using UEFI boot is unsupported.

6. Can be used as a proxy for NDMP backup.
7. Only base backup is supported (for seeding purpose).
8. ReiserFS as data file system is supported. ReiserFS as /boot is not supported.
9. Block-level support qualified with DPX 4.4.0 PL0025 and later.
10. Block-level support qualified with DPX 4.4.0 PL0025 and later. Virtualization and Bare Metal Recovery are not supported.
11. Qualified with DPX 4.4.0 PL0025 and later. Virtualization and Bare Metal Recovery are not supported.
12. Qualified with DPX 4.4.3 and later.
13. Qualified with DPX 4.5.0 and later.
14. Qualified with DPX 4.5.1 and later
15. Block level support for Linux hosts using Linux Native Multipath.
16. Block level support for Linux hosts using UEFI boot is supported.
17. When restoring from a Block Archive, only files and folders can be recovered. Bare metal recovery, instant virtualization, and full virtualization are not supported when restoring from Block Archive.

Oracle Linux

OS	Master Server	Device / SAN Device Server	Basic Client	DPX Client	Management Console
Oracle Linux 8.1 x64		Y	Y[1,2]		
Oracle Linux 8.0 x64		Y	Y[1,2]		
Oracle Linux 7.8 x64		Y	Y[1,2]		
Oracle Linux 7.7 x64		Y	Y[1,2]		
Oracle Linux 7.4 x64 [8,9, 10]		Y	Y[1,2]	Y	
Oracle Linux 7.3 x64 [6]	Y	Y	Y[1,2]	Y	
Oracle Linux 7.2 x64 [6]		Y	Y[1,2]		
Oracle Linux 7.1 x64 [3,4]		Y	Y[1,2]		
Oracle Linux 6.9 x64 [7]		Y	Y[1,2]		
Oracle Linux 6.8 x64 [5]		Y	Y[1,2]		

Note:

1. Extended file system attributes are supported.
2. Only the default uniprocessor or SMP kernel packages provided by the Linux vendor for the distribution are supported.
3. Qualified up to Oracle Linux 7.1 with Oracle database 12.1.0.2. Oracle Linux 7 is a production release, but the Oracle Database is only supported on it from Oracle Database 12c (12.1.0.2) onward, detail in Oracle website: https://oracle-base.com/articles/12c/oracle-db-12cr1-installation-on-oracle-linux-7. Agentless protection qualified.
4. Oracle up to Linux 6.7 with DPX 4.4.0 PL 0025 and later. Agentless protection qualified.
5. Qualified up to Oracle Linux 6.8 with DPX 4.4.0 PL0174 and later. Agentless protection qualified.
6. Qualified up to Oracle Linux 7.2 with DPX 4.4.0 PL0025 and later. Agentless protection qualified.
7. Qualified for file level only with DPX 451.
8. Qualified for block level and file level with DPX 451.
9. Block level support for Linux hosts using UEFI boot is supported.
10. NDMP and agentless proxies were checked.

Canonical Ubuntu

OS	Master Server	Device / SAN Device Server	Basic Client	DPX Client
Ubuntu 16.04 LTS (Xenial) [5]			Y[1]	Y[6]
Ubuntu 16.x x64 [3,4]			Y[1]	
Ubuntu 15.x x64 [2]			Y[1]	

Note:

1. File-level backup supports most OS supported file systems except extended file system attributes.
2. Qualified up to Ubuntu 15.04 with DPX 4.4.0 and later. See KB 47144 for setup requirements. Agentless protection qualified.
3. Qualified up to Ubuntu 16.04 x64/x86 with DPX 4.4.0 PL0061 and later. Agentless protection qualified.
4. Qualified up to Ubuntu 16.10 x64 with DPX 4.4.0 PL0251. Agentless protection qualified.
5. Qualified for block level and file level with DPX 4.5.1. GPT is not supported.
6. libnss3 library must be installed for DPX client support.

Debian GNU/Linux

DPX Block Data Protection is **not** available for Debian GNU/Linux platforms.

OS	Master Server	Device / SAN Device Server	Basic Client	Management Console
Debian GNU/Linux 9.x x64 [8]			Y[1]	
Debian GNU/Linux 8.x x64 [2,3,4,5,6]			Y[1]	
Debian GNU/Linux 7.x x64 [7]			Y[1]	

Note:

1. File-level backup supports most OS supported file systems except extended file system attributes.
2. Qualified up to Debian 8.2 with DPX 4.4.0 and later. Agentless protection qualified.
3. Qualified up to Debian 8.3 with DPX 4.4.0 PL0025 and later. Agentless protection qualified.
4. Qualified up to Debian 8.4 x64/x86 with DPX 4.4.0 PL0061 and later. Agentless protection qualified.
5. Qualified up to Debian 8.5 x64/x86with DPX 4.4.0 PL0174 and later. Agentless protection qualified.
6. Qualified up to Debian 8.6 x64 with DPX 4.4.0 PL0251. Agentless protection qualified.
7. Qualified up to Debian 7.9 x64/x86 with DPX 4.4.0 PL0061 and later. Agentless protection qualified.
8. Qualified with DPX 4.5.1.

Oracle Solaris

DPX Block Data Protection is **not** available for Oracle Solaris platforms.

OS	Master Server	Device / SAN Device Server	Basic Client	Management Console	NDMP Proxy
Solaris 11 SPARC 64-bit		Y	Y[1,2]		

OS	Master Server	Device / SAN Device Server	Basic Client	Management Console	NDMP Proxy
Solaris 10 SPARC 64-bit		Y	Y[1,2]		

Note:

1. Extended file system attributes are supported.
2. a) File-level backup supports most OS supported file systems including ZFS. Extended file system attributes support for UFS, VxFS is available. b) Solaris Zones are supported by backing up the host Solaris machine, and all data that is mounted to the host machine is protected. Split by partitions backup option needs to be enabled. Oracle databases in the host machine can be backed up by using Oracle Application Interface clients. Backup of Oracle in a zone is not supported.

IBM AIX

DPX Block Data Protection is **not** available for IBM AIX platforms.

OS	Master Server	Device / SAN Device Server	Basic Client	Management Console	NDMP Proxy
AIX 7.1 64bit		Y	Y[1]		
AIX 6.x		Y	Y[1]		

Note:

1. File-level backup supports most OS supported file systems except extended file system attributes.

Novell (Micro Focus) Open Enterprise Server (OES)

OS	Master Server	Device / SAN Device Server	Basic Client	Management Console	Open File Management	Cluster Support
OES 2018 (Linux) 64-bit		Y	Y[1]			Y[2,3]
OES 2015 (Linux) SP1 64-bit		Y	Y[1]			Y[2,3]
OES 2015 (Linux) 64-bit		Y	Y[1]			Y[2,3]
OES 11 (Linux) SP3 64-bit		Y	Y[1]			Y[2,3]
OES 11 (Linux) SP2 64-bit		Y	Y[1]			Y[2,3]

Note:

1. a) DPX is fully NSS compatible; b) DPX file-level backup supports most other OS-supported file systems except extended file system attributes.
2. Device / SAN Device Servers on physical nodes are supported, but device servers are not cluster-aware and will not follow failover. Please refer to the Cluster Support documentation.
3. Cluster support is limited to NSS volumes.
4. Novell (Micro Focus) GroupWise is mentioned separately under the Database section. Novell eDirectory is no longer supported.

Database and Application Compatibility

Microsoft Exchange

OS	Exchange Version	Basic Client	DPX Client	Instant Availability	Cluster Support
Windows Server 2019 [7]	Exchange 2019 64-bit		Y[1]	Y	DAG, IP-less DAG
Windows 2016 [5,6]	Exchange 2016 64-bit		Y[1]	Y	DAG, IP-less DAG
	Exchange 2013 64-bit (SP1)		Y[1]	Y	DAG, IP-less DAG
Windows 2012 R2 [5,6]	Exchange 2016 64-bit		Y[1]	Y	DAG, IP-less DAG
	Exchange 2013 64-bit (SP1)		Y[1]	Y	DAG, IP-less DAG
Windows 2012 [5,6]	Exchange 2016 64-bit		Y[1]	Y	DAG [2]
	Exchange 2013 64-bit (SP1)		Y[1]	Y	DAG [2]
Windows 2008 R2 x64 (SP1 or later)	Exchange 2013 64-bit (SP1)		Y[1]	Y	DAG [2]
	Exchange 2010 64-bit (SP1 or later)		Y[1]	Y	DAG
	Exchange 2007 64-bit (SP3 or later)	Y	Y[1]	Y	SCC & CCR [3]

Note:

1. Recovery to alternate locations is supported.
2. Database Availability Group (DAG) without administrative access point (no IP address) is not supported. This is sometimes called "IP-less" DAG.
3. CCR and SCC (Single Copy Cluster) is supported for both DPX block-level and file-level backup. DPX supports both Active/Active and Active/Passive clusters.
4. Recovery Storage Groups are not supported.
5. Exchange 2013 on Windows NTFS is supported. Supported with Windows ReFS beginning with DPX 4.5.1.
6. Exchange 2016 on Windows NTFS is supported. Supported with Windows ReFS beginning with DPX 4.5.1.
7. Both NTFS and ReFS are supported.

Microsoft SharePoint

OS	SharePoint Version	Basic Client	DPX Client	Instant Availability	Cluster Support
Windows 2016	SharePoint Server 2016 Feature Pack 1 (Dec. 2016), SharePoint Server 2013 / SharePoint Foundation 2013 64-bit (SP1)		Y[1,2,3]	Y	Y
Windows 2012 R2 x64	SharePoint Server 2016 Feature Pack 1 (Dec. 2016), SharePoint Server 2013 / SharePoint Foundation 2013 64-bit (SP1)		Y[1,2,3]	Y	Y
Windows 2012 x64	SharePoint Server 2013 / SharePoint Foundation 2013 64-bit (SP1)		Y[1,2]	Y	Y
Windows 2008 R2 x64 (SP1 or later)	SharePoint Server 2013 / SharePoint Foundation 2013 64-bit (SP1)		Y[1]	Y	Y
	SharePoint Server 2010 / SharePoint Foundation 2010 64-bit (SP1 or later)		Y[1]	Y	Y
	SharePoint Server 2007 / WSS 3.0 64-bit (SP2 or later)		Y[1]	Y	Y

Note:

1. In a farm configuration, SQL Server can be any supported configurations (please refer to compatibility information for SQL Server).
2. SharePoint 2013 with SQL 2012 AlwaysOn availability is supported with DPX 4.2.0 PL0069 and later.
3. Qualified up to SharePoint 2013 SP1 with SQL 2014 SP1 AlwaysOn availability with DPX 4.4.0 and later.

Microsoft SQL Server

Microsoft SQL Server Standard and Enterprise editions are supported. Microsoft SQL Server Express is not supported.

OS	SQL Server Version	Basic Client	DPX Client	Instant Availability	Cluster Support
Windows 2019	SQL Server 2019 64-bit	Y	Y	Y	Y[1]
Windows 2016	SQL Server 2017 64-bit	Y[3,11]	Y[3,11]	Y	Y[1,12]
	SQL Server 2016 64-bit	Y[3,11]	Y[3,11]	Y	Y[1,9]
Windows 2012 R2 x64	SQL Server 2016 64-bit (SP0 or later)		Y[3]	Y	Y[1,9]
Windows 2012 R2 x64	SQL Server 2014 64-bit (SP0 or later) [4,8]	Y[2]	Y[3]	Y	Y[1,9]
	SQL Server 2012 64-bit (SP1 or later) [7,10]	Y[2]	Y[3]	Y	Y[1]
Windows 2012 x64	SQL Server 2014 64-bit (SP0 or later) [4,8]	Y[2]	Y[3]	Y	Y[1]

OS	SQL Server Version	Basic Client	DPX Client	Instant Availability	Cluster Support
	SQL Server 2012 64-bit (SP1 or later) [7,10]	Y[2]	Y[3]	Y	Y[1]
Windows 2008 R2 x64 (SP1 or later)	SQL Server 2014 64-bit [4]	Y[2]	Y[3]	Y	Y[1]
	SQL Server 2012 64-bit (SP2 or later) [7,10]	Y[2]	Y[3]	Y	Y[1]
	SQL Server 2008 R2 64-bit (SP2 or later) [6]	Y	Y	Y	Y[1]
	SQL Server 2008 64-bit (SP1 or later) [5]	Y	Y	Y	Y[1]

Note:

1. DPX supports both Active/Active and Active/Passive clusters.
2. SQL additional setup is required for standalone SQL Server, as in KB 46576. SQL AlwaysOn Availability Groups are not supported.
3. SQL additional setup is required for standalone SQL Server, as in KB 46576.
4. For block-level protection, SQL AlwaysOn Availability is supported with DPX 4.3.0 PL0148 and later.
5. Qualified up to SQL 2008 SP4 on Windows 2008 R2 x64 SP1 with DPX 4.3.0 PL0148 and later.
6. Qualified up to SQL 2008 R2 SP3 on Windows 2008 R2 x64 SP1 with DPX 4.3.0 PL0148 and later.
7. Qualified up to SQL 2012 SP2 on Windows 2012 R2, Windows 2012, and Windows 2008 R2 SP1 with DPX 4.3.0 PL0071 and later.
8. Qualified up to SQL 2014 SP2 on Windows 2012 R2, and Windows 2012 with DPX 4.4.0 and later.
9. Qualified up to SQL 2016 with AlwaysOn on Windows 2012 R2 with CSV configuration with DPX 4.4.0 and later. For issues related to SQL and CSV combination, refer to "Additional Considerations for CSV in DPX" under "Clustered Shared Volumes" of Reference Guide.
10. Qualified up to SQL 2012 SP3 on Windows 2012 R2, Windows 2012, and Windows 2008 R2 SP1 with DPX 4.4.0 PL0025 and later.
11. SQL 2016 ReFS is supported on Windows 2016. SQL 2016 AlwaysOn availability is supported.
12. SQL Server 2017 Always On Clusters are qualified for block level backup.

Oracle Databases

DPX Block Data Protection for Oracle is for single-node standalone Oracle instances only. Advanced storage features such as Oracle ASM are currently not supported.

OS	Oracle Version	Basic Client	DPX Client	Instant Availability	Cluster Support
AIX 6.1	Oracle 11g R2 /11g R1 64-bit / 32-bit [1]	Y[2]			Y[3]
CentOS 7.5 x64	Oracle 12c 64-bit	Y[2]	Y	Y	
CentOS 7.4 x64	Oracle 12c 64-bit	Y[2]	Y	Y	
CentOS 7.3 x64	Oracle 12c 64-bit	Y[2]	Y	Y	
CentOS 7.2 x64	Oracle 12c 64-bit [7]	Y[2]			
CentOS 7.1 x64	Oracle 12c 64-bit	Y[2]	Y		
CentOS 6.10 x64	Oracle 18c 64-bit	Y[2]	Y		
CentOS 6.7 x64	Oracle 11g R2 64-bit [6]	Y[2]			
CentOS 6.6, 6.5 x64	Oracle 11g R2 64-bit	Y[2]	Y	Y	Y[3]
CentOS 5.11 x64	Oracle 11g R2 64-bit	Y[2]	Y	Y	Y[3]
Oracle Linux 7.3 x64	Oracle 12c 64-bit	Y[2]	Y	Y	
Oracle Linux 7.2 x64	Oracle 12c 64-bit [7]	Y[2]			
Oracle Linux 7.1 x64	Oracle 12c 64-bit [5] Oracle 11g R2 64-bit [6]	Y[2]			
Oracle Linux 6.7 x64	Oracle 12c 64-bit [7] Oracle 11g R2 64-bit [6]	Y[2]			
Oracle Linux 6.6 x64	Oracle 12c 64-bit Oracle 11g R2 64-bit [6]	Y[2]			
Oracle Linux 6.5 x64	Oracle 12c 64-bit	Y[2]			
Oracle Linux 6.4 x64	Oracle 11g R2 64-bit	Y[2]			
Oracle Linux 6.2, 5.6 x64	Oracle 11g R2 /11g R1 64-bit	Y[2]			
Red Hat Enterprise Linux 7.4 x64	Oracle 12c 64-bit	Y[2]	Y	Y	
Red Hat Enterprise Linux 7.3 x64	Oracle 12c 64-bit	Y[2]	Y	Y	
Red Hat Enterprise Linux 7.2, 7.1, 7.0 x64	Oracle 12c 64-bit [7]	Y[2]		Y	
Red Hat Enterprise Linux 6.7 x64	Oracle 12c 64-bit [7]	Y[2]	Y	Y	
Red Hat Enterprise Linux 6.6, 6.5 x64	Oracle 12c 64-bit	Y[2]	Y	Y	Y[3]
Red Hat Enterprise Linux 5.11, 5.10 x64	Oracle 12c 64-bit Oracle 11g R2 64-bit	Y[2]	Y	Y	Y[3]
Solaris 11 SPARC 64-bit	Oracle 12c 64-bit	Y[2]			

OS	Oracle Version	Basic Client	DPX Client	Instant Availability	Cluster Support
Solaris 11 SPARC 64-bit	Oracle 11g R2 64-bit	Y[2]			Y[3]
Solaris 10 SPARC 64-bit	Oracle 11g R2 /11g R1 64-bit	Y[2]			Y[3]
SUSE Linux Enterprise 15 x64	Oracle 12c 64-bit [7]	Y[2]	Y	Y	
SUSE Linux Enterprise 12 x64 (SP1, SP2)	Oracle 12c 64-bit [7]	Y[2]	Y	Y	
SUSE Linux Enterprise 12 x64	Oracle 12c 64-bit [7]	Y[2]	Y	Y	
SUSE Linux Enterprise 11 x64 (SP4)	Oracle 12c 64-bit [4]	Y[2]	Y	Y	
SUSE Linux Enterprise 11 x64 (SP3, SP2)	Oracle 12c 64-bit	Y[2]	Y	Y	Y[3]
SUSE Linux Enterprise 11 x64 (SP2, SP1)	Oracle 11g R2 /11g R1 64-bit	Y[2]	Y	Y	Y[3]
Windows 2016	Oracle 12c and 12cR2 64-bit	Y[2]	Y	Y	Y[3]
Windows 2012 R2 x64	Oracle 12c and 12cR2 64-bit	Y[2]	Y	Y	Y[3]
Windows 2012 x64	Oracle 12c and 12cR2 64-bit	Y[2]	Y	Y	Y[3]
Windows 2008 R2 x64 (SP1)	Oracle 12c and 12cR2 64-bit Oracle 11g R2 /11g R1	Y[2]	Y	Y	Y[3]

Note:

1. OCFS2 is supported.
2. Supported through RMAN. RMAN verification is not supported.
3. For DPX file-level backup only. Cluster is supported through Oracle RMAN. Oracle RAC is only supported via file-level RMAN interface.
4. Qualified up to Oracle 12.1.0.2.0 with DPX 4.4.0 PL0025 and later. Qualified up to Oracle 12.2.0.1 with DPX 4.5.0 and later.

IBM DB2

DPX Block Data Protection is **not** available for IBM DB2.

OS	DB2 Version	Basic Client	DPX Client	Instant Availability	Cluster Support
AIX 7.1	DB2 UDB EE / EEE v9.7 64-bit	Y			
AIX 6.x	DB2 UDB EE / EEE v9.5 64-bit	Y			
CentOS 7.2 x64	DB2 UDB EE / EEE v10.x 64-bit [3]	Y			
Red Hat Enterprise Linux 7.2, 7.1 x64	DB2 UDB EE / EEE v10.x 64-bit [4]	Y			

OS	DB2 Version	Basic Client	DPX Client	Instant Availability	Cluster Support
Red Hat Enterprise Linux 6.7, 6.6 x64	DB2 UDB EE / EEE v9.7 64-bit [1]	Y			
Red Hat Enterprise Linux 5.11, 5.10 x64	DB2 UDB EE / EEE v10.x 64-bit [2]	Y			
SUSE Linux Enterprise Server 12 x64 (SP1)	DB2 UDB EE / EEE v10.x 64-bit [5]	Y			
SUSE Linux Enterprise Server 11 x64 (SP4, SP3, SP2)	DB2 UDB EE / EEE v10.x 64-bit [2]	Y			
SUSE Linux Enterprise Server 11 x64 (SP1)	DB2 UDB EE / EEE v9.7 64-bit DB2 UDB EE / EEE v9.5 64-bit	Y Y			
Windows 2012 R2 x64	DB2 UDB EE / EEE v9.7 64-bit	Y[5]			
Windows 2008 R2 x64 (SP1)	DB2 UDB EE / EEE v10.x 64-bit [2,3] DB2 UDB EE / EEE v9.7 64-bit [1]	Y Y			

Note:

1. Qualified up to DB2 v9.7 FP11 with DPX 4.4.0 and later.
2. Qualified up to DB2 v10.5 FP6 with DPX 4.4.0 and later.
3. Qualified up to DB2 v10.5 FP7 with DPX 4.4.0 PL0025 and later.
4. Qualified up to DB2 v10.5 FP6 on V7.2 with DPX 4.4.0 PL0025 and later.
5. Qualified up to DB2 v10.5 FP7 on V12 SP1 with DPX 4.4.0 PL0025 and 4.5.0 and later.

SAP HANA

DPX Block Data Protection is **not** available for SAP HANA.

OS	SAP HANA Version	Basic Client	Multitenant	Instant Availability	Cluster Support
SUSE Linux Enterprise Server 12 x64 SP4 [1]	SAP HANA 2.0 SP4	Y	Y	N	Y

Note:

1. Qualified with DPX backup on SUSE Linux Enterprise Server 12 x64 SP4.

IBM Lotus Notes / Domino

DPX Block Data Protection is **not** available for IBM Lotus Notes / Domino.

OS	Lotus Notes / Domino Version	Basic Client	DPX Client	Instant Availability	Cluster Support
Solaris 10 SPARC 64-bit	Lotus Notes / Domino Server 8.0 32-bit	Y[1]			
Windows 2012 R2 x64	Lotus Notes / Domino Server 9.0.x 64-bit [2,4]	Y[1]			
Windows 2012 x64	Lotus Notes / Domino Server 9.0.x 64-bit [2,4]	Y[1]			
Windows 2008 R2 x64 (SP1)	Lotus Notes / Domino Server 9.0, 8.5.3, 8.5.2 64-bit	Y[1]			

Note:

1. Database restore and point-in-time restore are supported; mail-level restore is not supported.
2. Qualified up to Lotus Domino 9.0.1 FP4 with DPX 4.4.0 and later.
3. Qualified up to Lotus Domino 8.5.3 FP6 with DPX 4.4.0 and later.
4. Qualified up to Lotus Domino 9.0.1 FP5 with DPX 4.4.0 PL0025 and later.

Novell (Micro Focus) GroupWise

DPX Block Data Protection is **not** available for Novell GroupWise.

OS	GroupWise Version	Basic Client	DPX Client	Instant Availability	Cluster Support
OES 2015 Linux 64-bit (SP1)	2014 R2 SP1 [2]	Y[1]			
OES 2015 Linux 64-bit	2014 [2,5]	Y[1]			
OES 11 Linux 64-bit (SP1 or later)	2014 [2,4]	Y[1]			
OES 11 Linux 64-bit (SP1 or later)	2012 [2,3]	Y[1]			

Note:

1. GroupWise cluster is not supported.
2. GroupWise is supported through TSAFS using the ENABLEGW switch. See [Novell Knowledgebase 7010095](#).
3. Qualified up to GroupWise 2012 SP4 on OES 11 SP2 with DPX 4.4.0 and later.
4. Qualified up to GroupWise 2014 SP1 on OES 11 SP2 with DPX 4.3.0 PL0232 and later.
5. Qualified up to GroupWise 2014 SP2 and Groupwise 2014 R2 SP1 on OES 2015 with DPX 4.4.0 and later.

SAP R/3

DPX Block Data Protection is **not** available for SAP R/3.

OS	Database	SAP R/3 Version	Basic Client	DPX Client	Instant Availability	Cluster Support
Windows 2012, 2012 R2	Oracle [1]	7.x, 6.x	Y			
Windows 2008 R2	Oracle [1]	7.x, 6.x	Y			
AIX 6	Oracle [1]	7.x, 6.x	Y			

Note:

1. Database versions have to be supported by DPX. Please refer to compatibility information for Oracle, DB2 or SQL Server. SAP R/3 on Oracle is supported through BRBACKUP and BRRESTORE interfaces. SAP R/3 on DB2 or SQL Server is supported through corresponding database backup