MICRO FOCUS®

Storage Operations Management

Software Version: 10.20

Device Support Matrix

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- Research and register for software training

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STORAGE DEVICES

Legend:

Y	Supported
N	Not supported
NA	Not Applicable

VENDOR	STORAGE ARRAY/ SWITCH	SUBSYSTEM/ MODEL	DEVICE BUNDLE VERSION	PREREQUISITE SOFTWARE		FEATURES					
				DEVICE INTERFACE	VERSION	PERFORMANCE METRICS	VIRTUALIZATION (EXTERNAL STORAGE AWARE)	THIN PROVISIONING	REMOTE REPLICATION	SUB-LUN TIERING	INCIDENTS
HPE	XP	24000, P9500, XP7	Device bundles Installed with v10.20	RMI-API	N/A	Y	Y	Y	Y	NA	Y
	EVA	All models supported by specified CV-EVA versions		SMI-S	CV-EVA: 10.2, 10.3	Y	NA	Y	Y	NA	N
	3PAR StoreServ	All models* supported by specified Inform OS Versions *iSCSI not supported		SMI-S	3.1.2 MU2, 3.1.2MU5, 3.1.3 MU1, 3.1.3 MU2, 3.2.1 MU1, 3.2.1 MU2, 3.2.1 MU3, 3.2.2 MU1, 3.3.1 MU2, 3.3.1 MU3 **NOTE:** SOM does not support new features introduced in 3.3.1 MU2 and 3.3.1 MU3; SOM supports only the features that were available from 3.3.1 MU1	Y	NA	Y	Y	Y	Y
	StoreEasy	X3830, X3840, X3850		WMI	Windows Storage Server 2012, Windows Storage Server 2012 R2	N	Y	NA	Y	NA	N
	ONTAP	7-Mode (All Models)	Device bundles Installed with	ONTAPI	8.1.x, 8.2.x	Y	N	N	Y	NA	Y

STORAGE DEVICES

VENDOR	STORAGE ARRAY/ SWITCH	SUBSYSTEM/ MODEL	DEVICE BUNDLE VERSION	DEVICE INTERFACE	VERSION	PERFORMANCE METRICS	VIRTUALIZATION (EXTERNAL STORAGE AWARE)	THIN PROVISIONING	REMOTE REPLICATION	SUB-LUN TIERING	INCIDENTS
NetApp	ONTAP	C-Mode (All Models)	Installed with v10.20	ONTAPI	8.1.4, 8.2.x, 8.3, 8.3.1, 8.3.2	Y	N	N	Y	NA	Y
Hitachi	HUS (Block)	110, 130, 150,VM	Device bundles Installed with v10.20	XML	HDvM: 7.6	Y[1]	N	Y	Y	N	Y
	Hitachi Enterprise Class Arrays	USP, USP_V, VSP, VSP G1000		XML	HDvM: 7.6, 8.2.1	Y[1]	N	Y	Y	N	Y
	Hitachi Adaptable Modular Storage	AMS2300		XML	HDvM: 7.6, 8.2.1	Y[1]	N	Y	N	N	Y

1: Legal approval is required from HDS to use the RMLibs needed for Performance monitoring. Please contact your Support Representative for further information.

Legend: Y — Supported; N — Not supported; NA — Not Applicable

VENDOR	STORAGE ARRAY/ SWITCH	SUBSYSTEM/ MODEL	DEVICE BUNDLE VERSION	PREREQUISITE SOFTWARE		FEATURES					
				DEVICE INTERFACE	VERSION	PERFORMANCE METRICS	VIRTUALIZATION (EXTERNAL STORAGE AWARE)	THIN PROVISIONING	REMOTE REPLICATION	SUB-LUN TIERING	INCIDENTS
IBM	SAN Volume Controller (SVC)	2145	Device bundles Installed with v10.20	SMI-S	7.4, 7.5	Y	Y	Y	N	NA	Y
	Storwize	V7000, V3700		SMI-S	7.4, 7.5	Y	Y	Y	N	NA	Y
	XIV	XIV Gen2, Gen3		SMI-S	v1.4.x	Y	N	Y	N	N	N
	Clariion	CX4		SMI-S	4.6.x Provider	Y	NA	Y	Y	Y	Y
	VNX Block	VNX Series VNX2 Series		SMI-S	4.6.x Provider	Y	NA	Y	Y	Y	Y
	VNX Filer	VNX 5300, 5500, 5700, 7500		XML API	DART: 7.1.74-5, 7.1.76-4, 7.1.79.8	Y	NA	Y	Y	NA	Y
	Symmetrix DMX	DMX 3 DMX 4		SMI-S	4.6.x	Y	N	Y	Y	N	N

STORAGE DEVICES

EMC	Symmetrix VMAX	VMAX 10K, 20K, 40K, 100K	Device bundles Installed with v10.20	SMI-S	Solutions Enabler 8.1.x, 8.2.x	Y	Y	Y	Y	Y	Y
	VPLEX	VS1, VS2		REST API	GeoSynchrony: 5.1.0.03.00.07, 5.1.0.04.00.04, 5.2.1.02.00.03, 5.3.0.02.00.05	N	Y	NA	Y	NA	N
	Isilon	S-Series, X-Series, NL-Series		SSH	OneFS : v7.0.2.1, v7.1.0.0, v7.1.0.3, v7.2.0.2	N	NA	NA	Y	NA	N
	Data Domain	All models supported by specified Data Domain Version		Snmp, ssh	Data Domain OS : 5.7.x	N	NA	NA	Y	NA	N

SWITCHES

Legend:

Y	Supported
N	Not supported
NA	Not Applicable

VENDOR	STORAGE ARRAY/ SWITCH	SUBSYSTEM/ MODEL	DEVICE BUNDLE VERSION	PREREQUISTE SOFTWARE		FEATURES	
				DEVICE INTERFACE	VERSION	PERFORMANCE METRICS	INCIDENTS
Brocade	Switches	All models[2,3] supported by specified BNA versions	Device bundles Installed with v10.20	SMI-S	BNA: 12.0, 12.1.5, 12.3.x, 12.4.0, 12.4.1, 12.4.2, 12.4.3, 12.4.4, 14.0	Y	Y
CISCO	Switches	All models[2] supported by specified NX-OS Versions	Device bundles Installed with v10.20	SNMP v2, v3	NX-OS: 5.0(1a), 5.0(4), 5.0(4b), 5.0(4d) 5.2(1), 5.2(2) NX-OS 6.0, 6.1, 6.2(1), 6.2(9)	Y	Y

2: Only FC switches are supported.

3: Although Brocade Access Gateway is supported, the performance metrics are not supported.

HP-UX HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

Legend:
- Y — Supported
- N — Not supported
- NA — Not Applicable

VENDOR	OS	VERSIONS/ EDITIONS	ARCHITECTURE	SP	PERFORMANCE AGENT	PERFORMANCE AGENTLESS	MULTI-PATH NAME	MULTI-PATH VERSION	MULTI-PATH AGENT	MULTI-PATH AGENTLESS	VOLUME MANAGER NAME	VOLUME MANAGER VERSION	VOLUME MANAGER AGENT	VOLUME MANAGER AGENTLESS	MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA VENDOR	HBA MODELS	CLUSTER NAME	CLUSTER VERSION
HP	HP-UX	11iv2	IA/PA	11.23	Y	N	HP-UX PV Links	N/A	Y	Y	LVM1	N/A	Y	Y	• PV Links with LVM1 • Veritas DMP with VxVM • PowerPath with LVM1	HP - Emulex : AH402A AH403A 456972-B21 AT094A AD299A AD355A AD221A AD222A 403621-B21 AD393A	MC Service Guard Cluster	11.19
							PowerPath	5.2, 5.2 P04, 6.0	Y	N						HP - Qlogic : 403619-B21 AD300A 451871-B21 AH400A AH401A A9782A AB378B AB379A AB379B AD193A AD300A	*Supported with Agent ONLY	
							Veritas DMP	5, 6.0.1	Y	N	VxVM	5.0, 6.0.1	Y	N					
		11iv3	IA/PA	11.31	Y	N	HP-UX PV Links	N/A	Y	Y	LVM1	N/A	Y	Y	• HP-UX PV Links with LVM1 or LVM2 • Veritas DMP with VxVM • HP-UX Native Multi-Path with LVM1 or LVM2 • PowerPath with LVM1 or LVM2	HP - Emulex : AH402A AH403A 456972-B21 AT094A AD299A AD355A AD221A AD222A 403621-B21 AD393A	MC Service Guard Cluster	11.19, 11.20
							HP-UX Native Multipath	N/A	Y	Y							*Supported with Agent ONLY	
							PowerPath	5.2, 5.2 P04, 6.0	Y	N	LVM2	N/A	Y	Y		HP - Qlogic : 403619-B21 AD300A 451871-B21 AH400A AH401A	Veritas Cluster Service (VCS)	

HP-UX HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

| | | | | | | | Veritas DMP | 5.1 SP1, 6.0.1, 6.0.3 | Y | N | VxVM | 5.1 SP1, 6.0.1, 6.0.3 | Y | N | | AH401A A9782A AB378B AB379A AB379B AD193A AD300A | *Supported with Agent ONLY | 6.0.100.000 |

WINDOWS HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

Legend:
- Y — Supported
- N — Not supported
- NA — Not Applicable

VENDOR	OS	VERSIONS/ EDITIONS	ARCHITECTURE	SP	PERFORMANCE AGENT	AGENTLESS	MULTI-PATH NAME	VERSION	AGENT	AGENTLESS	VOLUME MANAGER NAME	VERSION	AGENT	AGENTLESS	MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA VENDOR	MODELS	CLUSTER NAME	VERSION
Microsoft	2008	Standard, Datacenter, Enterprise	x86, x64, IA64	SP1, SP2	Y	Y	HDLM	7.6.0, 8.0.0, 8.1.4, 8.2.0	Y	N	LVM	N/A	Y	N	• PowerPath with VxVM • Powerpath with Native LVM • Veritas DMP with VxVM • HP MPIO with VxVM • HDLM with VxVM • HP MPIO with Native LVM • HDLM with Native LVM • Microsoft MPIO with LVM • Microsoft MPIO with VxVM	Brocade : 415, 425 815, 825, 804 Qlogic : QLA2460 QLA2462 QLE2560, QLE2562, QLE2564 Emulex : LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250	Microsoft Cluster Server	N/A
							PowerPath	5.7 SP1, SP4, 6.0	Y	N									
	2008 R2	Standard, Datacenter, Enterprise	x64, IA64	SP1	Y	Y	Microsoft MPIO	N/A	Y	Y	VxVM	5.1, 6.0.2, 6.1	Y	Y				*Cluster support is through both Agent and Agentless Discovery	
							HP MPIO	4.02.00, 4.01.00 4.00.00 4.04.00	Y	Y									
							Veritas DMP	5.1, 6.0.2, 6.1	Y	Y									
	2012	Standard, Datacenter	x64		Y	Y	HDLM	7.6.0, 8.0, 8.1.4	Y	N	LVM	N/A	Y	N	• PowerPath with VxVM • Powerpath with Native LVM • Veritas DMP with VxVM • HP MPIO with VxVM • HDLM with VxVM • HP MPIO with Native LVM • HDLM with Native LVM • Microsoft MPIO with LVM • Microsoft MPIO	Brocade: 415, 425 815, 825, 804 Qlogic: QLA2460 QLA2462 QLE2560, QLE2562, QLE2564 Emulex: LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12002	Microsoft Cluster Server	N/A
							HP MPIO	4.03, 4.04	Y	Y									
							Microsoft MPIO	N/A	Y	Y									
							Veritas DMP	5.1, 6.0.2, 6.1	Y	Y									
	2012 R2	Standard, Datacenter	x64		Y	Y	HDLM	7.6.0, 8.0, 8.1.4, 8.2.1	Y	N	VxVM	5.1, 6.0.2, 6.1	Y	Y				*Cluster support is through both Agent and Agentless Discovery	
							HP MPIO	4.04	Y	Y									
							Microsoft MPIO	N/A	Y	Y									
							PowerPath	5.7 SP1, SP4, 6.0	Y	N									

| | | | | | | | Veritas DMP | 5.1, 6.0.2, 6.1 | Y | Y | | | • Microsoft MPIO with VxVM | | LPe12002, LPe12004, LPe1250 | | |

RED HAT HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

Legend:
- Y — Supported
- N — Not supported
- NA — Not Applicable

VENDOR	OS	VERSIONS/EDITIONS	ARCHITECTURE	SP	PERFORMANCE AGENT	PERFORMANCE AGENTLESS	MULTI-PATH NAME	MULTI-PATH VERSION	MULTI-PATH AGENT	MULTI-PATH AGENTLESS	VOLUME MANAGER NAME	VOLUME MANAGER VERSION	VOLUME MANAGER AGENT	VOLUME MANAGER AGENTLESS	MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA VENDOR	HBA MODELS	CLUSTER NAME	CLUSTER VERSION
RedHat Software	RHEL	5.9, 5.10,	x86, x64, IA64	N/A	Y	Y	HDLM	7.6.1, 8.0.0, 8.0.4	Y	N	LVM	N/A	Y	Y	• HDLM with VxVM • PowerPath with VxVM • Veritas DMP with VxVM • HDLM with Native LVM • PowerPath with Native LVM • Device Mapper with Native LVM	Emulex : LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250 Qlogic : QLA2460, QLA2462 QLE2560, QLE2562, QLE2564 Brocade : 415, 425 815, 825, 804	No cluster support	N/A
							PowerPath	5.6, 5.7 SP5, 6.0	Y	N	VxVM	5.1 SP1, 6.0, 6.0.4, 6.1	Y	Y					
							Veritas DMP	5.1 SP1, 6.0, 6.0.4, 6.1	Y	Y									
							Linux Device Mapper	N/A	Y	Y									
		6.4, 6.5, 6.6	x86, x64	N/A	Y	Y	HDLM	7.6.1, 8.0.0, 8.0.4	Y	N	LVM	N/A	Y	Y	• HDLM with VxVM • PowerPath with VxVM • Veritas DMP with VxVM • HDLM with Native LVM • PowerPath with Native LVM • Device Mapper with Native LVM	Emulex : LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250 Qlogic : QLA2460, QLA2462	No cluster support	N/A
							PowerPath	5.6, 5.7 SP5, 6.0	Y	N									

RED HAT HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

		Veritas DMP	5.1 SP1, 6.0, 6.0.4, 6.1	Y	Y	VxVM	5.1 SP1,6.0, 6.0.4, 6.1	Y	Y		Brocade : 415, 425 815, 825, 804		
		Linux Device Mapper	N/A	Y	Y								

(top fragment continues: QLA2462, QLE2560, QLE2562, QLE2564)

Legend:
- Y — Supported
- N — Not supported
- NA — Not Applicable

VENDOR	OS	VERSIONS/ EDITIONS	ARCHITECTURE	SP	PERFORMANCE AGENT	AGENTLESS	MULTI-PATH NAME	VERSION	AGENT	AGENTLESS	VOLUME MANAGER NAME	VERSION	AGENT	AGENTLESS	MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA VENDOR	MODELS	CLUSTER NAME	VERSION
RedHat Software	RHEL	7.0, 7.1	x64	N/A	Y	Y	Linux Device Mapper	N/A	Y	Y	LVM	N/A	Y	Y	• Veritas DMP with VxVM • Device Mapper with Native LVM	Emulex : LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250 Qlogic : QLA2460, QLA2462, QLE2560, QLE2562, QLE2564		No cluster support	N/A
							Veritas DMP	6.2	Y	Y	VxVM	6.2	Y	Y					
		7.2	x64	N/A	Y	Y	Linux Device Mapper	N/A	Y	Y	LVM	N/A	Y	Y	• Device Mapper with Native LVM				

SUSE HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

Legend:
- **Y** Supported
- **N** Not supported
- **NA** Not Applicable

VENDOR	OS	VERSIONS/ EDITIONS	ARCHITECTURE	SP	PERFORMANCE AGENT	PERFORMANCE AGENTLESS	MULTI-PATH NAME	MULTI-PATH VERSION	MULTI-PATH AGENT	MULTI-PATH AGENTLESS	VOLUME MANAGER NAME	VOLUME MANAGER VERSION	VM AGENT	VM AGENTLESS	MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA VENDOR	HBA MODELS	CLUSTER NAME	CLUSTER VERSION
SUSE	SLES	10	x86, x64, IA64	SP4	Y	Y	HDLM	7.6.1, 8.0.0	Y	N	LVM	N/A	Y	Y	• HDLM with LVM • PowerPath with LVM • DeviceMapper with LVM	Emulex : LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250 QLogic : QLA2460, QLA2462 QLE2560, QLE2562, QLE2564 Brocade : 415, 425 815, 825, 804	No cluster support	N/A
							PowerPath	5.6, 5.7 SP1 P03	Y	N									
							Device Mapper	N/A	Y	Y									
		11	x86, x64, IA64	SP1, SP2, SP3	Y	Y	HDLM	7.6.1, 8.0.0	Y	N	LVM	N/A	Y	Y	• HDLM with LVM • PowerPath with LVM • DeviceMapper with LVM	Emulex : LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250 QLogic : QLA2460, QLA2462 QLE2560, QLE2562,	No cluster support	N/A
							PowerPath	5.6, 5.7 SP1 P03	Y	N									

SUSE HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

| | | | | | | | Device Mapper | N/A | | Y | Y | | | | | | QLE2564 | | |

ORACLE HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

VENDOR	OS	VERSIONS/ EDITIONS	ARCHITECTURE	SP	PERFORMANCE (AGENT / AGENTLESS)		MULTI-PATH NAME	VERSION	MP AGENT	MP AGENTLESS	VOLUME MANAGER NAME	VERSION	VM AGENT	VM AGENTLESS	MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA VENDOR / MODELS	CLUSTER NAME	VERSION
Oracle	Solaris	10	SPARC, x86	U8, U9	Y	N	Sun StorEdge Traffic Manager (MPxIO)	N/A	Y	Y	SVM	N/A	Y	Y	• Sun Storage Traffic Manager (MPxIO) with SVM	Emulex : LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250 QLogic : QLA2460, QLA2462 QLE2560, QLE2562, QLE2564 Brocade : 415, 425 815, 825, 804	No cluster support	N/A
							HDLM * Applicable ONLY for SPARC	8.0, 8.1	Y	N	VxVM	5.1, 6.0.2, 6.1, 6.2	Y	N				
							PowerPath	5.3	Y	N	ZFS	N/A	Y	Y				
							VxDMP	5.1, 6.0.2, 6.1, 6.2	Y	N								
		11	SPARC, x86	Base	Y	N	Sun StorEdge Traffic Manager (MPxIO)	N/A	Y	Y	SVM	N/A	Y	Y	• Sun Storage Traffic Manager (MPxIO) with SVM	Emulex : LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250 QLogic : QLA2460,	No cluster support	N/A
							HDLM * Applicable ONLY for SPARC	8.0, 8.1	Y	N	VxVM	6.0.2, 6.1, 6.2	Y	N				

ORACLE HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

						PowerPath	5.5	Y	N	ZFS	N/A	Y	Y	QLA2462 QLE2560, QLE2562, QLE2564 Brocade : 415, 425 815, 825, 804	
						VxDMP	6.0.2, 6.1, 6.2	Y	N						

IBM AIX HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

Legend:
Y	Supported
N	Not supported
NA	Not Applicable

VENDOR	OS	VERSIONS/ EDITIONS	ARCHITECTURE	SP	PERFORMANCE AGENT	PERFORMANCE AGENTLESS	MULTI-PATH NAME	MULTI-PATH VERSION	MULTI-PATH AGENT	MULTI-PATH AGENTLESS	VOLUME MANAGER NAME	VOLUME MANAGER VERSION	VOLUME MANAGER AGENT	VOLUME MANAGER AGENTLESS	MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA VENDOR	HBA MODELS	CLUSTER NAME	CLUSTER VERSION
IBM	AIX	6.1	32/64-bit	TL7 onwards	Y	Y	AIX MPIO	N/A	Y	Y	LVM	N/A	Y	Y	• AIX MPIO with LVM • HDLM with LVM • HP MPIO with LVM • Native MPIO with LVM • SDD with LVM • SDDPCM with LVM • VxVM with DMP	Emulex	LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150 LPe12000, LPe12002, LPe12004, LPe1250	Veritas VCS	6.0
							Power Path	6	Y	N									
							HDLM	8.1.3, 8.1.4	Y	N									
							HP MPIO	1.0.4.1, 1.0.5.0	Y	N									
							SDD	1.7.2.8, 1.7.2.7	Y	N									
							SDDPCM	2.6.6.0, 2.6.5.1		N									
							Veritas DMP	6.0	Y	N									
		7.1	32/64-bit	TL3 onwards	Y	Y	AIX MPIO	N/A	Y	Y	VxVM	6.0							
							Power Path	6	Y	N									
							HDLM	8.1.3, 8.1.4	Y	N									
							HP MPIO	1.0.4.1, 1.0.5.0	Y	N									
							SDDPCM	SDDPCM		N									
							Veritas DMP	6.0	Y	N									