

<Supported Storage List of SIOS Protection Suite for Linux v9>

Last Updated: May 11, 2017

Vendor (*1)	Storage Model	Bus Type	Connect Type (*2)	Support Status	Required ARK(*3) (i.e. Multipath ARK)	Supported LK Version (*4)	Note			
DELL	Dell EqualLogic: PS4100 PS4110 PS6100 PS6110 PS6210	iSCSI	Multi Path (DMMP)	YES	DMMP ARK	v9.0 - v9.1.1	With a large number of Luns (over 20), change the REMOTETIMEOUT setting in /etc/default/lfakeeper to REMOTETIMEOUT=600.			
			Single Path (DMMP)	YES	DMMP ARK					
		MD3800F MD3820F MD3860F	FC	vSphere (RDM)	No	-		v9.0 - v9.1.1		
	Multi Path (DMMP)			YES	DMMP ARK					
	Single Path			No	-					
	MD3800 MD3820 MD3860	iSCSI	Multi Path (DMMP)	YES	DMMP ARK	v9.0 - v9.1.1				
			Single Path	No	-					
			vSphere (RDM)	No	-					
	MD3400 MD3420 MD3460	SAS	vSphere (RDM)	No	-	v9.0 - v9.1.1				
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path	No	-					
	DELL	SC2000 Series: SC2000 SC2020 SC2080	FC	vSphere (RDM)	YES	No Multipath ARK		v9.0 - v9.1.1		
Multi Path (DMMP)				YES	DMMP ARK					
Single Path				No	-					
iSCSI			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path	No	-					
			vSphere	No	-					
Dell Storage SC4020		FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path	No	-					
		iSCSI	Multi Path (DMMP)	YES	DMMP ARK					
			Single Path (DMMP)	No	-					
			vSphere (RDM)	No	-					
Dell Compellent SC8000	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
	iSCSI	Multi Path (DMMP)	YES	DMMP ARK						
		Single Path (DMMP)	No	-						
		vSphere (RDM)	No	-						
Fujitsu	ETERNUS DX90	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path	No	-					
			Multi Path (EMPD)	YES	No Multipath ARK					
			Single Path	YES	No Multipath ARK					
			Single Path	YES	No Multipath ARK					
	ETERNUS: DX60 DX80 DX410 DX440 DX8100 DX8400 DX8700 DX80 S2 DX90 S2 DX410 S2 DX440 S2 DX8100 S2 DX8700 S2 DX60 S3 DX100 S3 DX200 S3 DX500 S3 DX600 S3 DX8700 S3 DX8900 S3 DX200P AF550 AF650 DX60 S4 DX100 S4 DX200 S4	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path	No	-					
			Multi Path (EMPD)	YES	No Multipath ARK					
			Single Path	YES	No Multipath ARK					
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path	YES	No Multipath ARK					
			Multi Path (EMPD)	YES	No Multipath ARK					
			Single Path	YES	No Multipath ARK					
			Hitachi / Hitachi Data Systems	Hitachi Virtual Storage Platform G1000 Hitachi Virtual Storage Platform G1500 Hitachi Virtual Storage Platform F1500	FC		vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1
							Multi Path (HDLM)	YES	HDLM ARK	
							Multi Path (DMMP)	YES	DMMP ARK	
					iSCSI		Multi Path (HDLM)	No	-	
							Single Path	No	-	
							Single Path	No	-	
				Hitachi Virtual Storage Platform	FC		vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1
							Multi Path (HDLM)	YES	HDLM ARK	
							Single Path	YES	-	
iSCSI	Multi Path (HDLM)	No			-					
	Single Path	No			-					
	Single Path	No			-					
Hitachi Virtual Storage Platform Mid Range Family: Hitachi Virtual Storage Platform G800 (VSP G800) Hitachi Virtual Storage Platform G600 (VSP G600) Hitachi Virtual Storage Platform G400 (VSP G400) Hitachi Virtual Storage Platform G200 (VSP G200) Hitachi Virtual Storage Platform G100 (VSP G100)	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (HDLM)	YES	HDLM ARK						
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	YES	No Multipath ARK						
		iSCSI	Multi Path (DMMP)	YES		DMMP ARK				
			Single Path	YES		No Multipath ARK				
	vSphere (RDM)		YES	No Multipath ARK						
	Multi Path (HDLM)		YES	HDLM ARK						
	Multi Path (DMMP)		YES	DMMP ARK						
	Single Path		No	-						
	Hitachi Unified Storage VM (HUS VM)	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (HDLM)	YES	HDLM ARK					
Single Path			YES	No Multipath ARK						
iSCSI		Multi Path (HDLM)	No	-						
		Single Path	No	-						
		Single Path	No	-						
Hitachi Unified Storage 100 Series: Hitachi Unified Storage 150 (HUS 150) Hitachi Unified Storage 130 (HUS 130) Hitachi Unified Storage 110 (HUS 110)	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (HDLM)	YES	HDLM ARK						
		Single Path	YES	No Multipath ARK						
	iSCSI	Multi Path (HDLM)	No	-						
		Single Path	No	-						
		Single Path	No	-						
Hitachi	BR1200	iSCSI	Multi Path (HDLM)	No	-	v9.0 - v9.1.1				
			Multi Path (DMMP)	No	-					
			Single Path	No	-					
		SAS	Multi Path (RDAC)	YES	No Multipath ARK					
			Single Path (RDAC)	YES	No Multipath ARK					
			Single Path (HDLM)	No	-					
	BR1250	iSCSI	Multi Path (HDLM)	No	-	v9.0 - v9.1.1				
			Multi Path (DMMP)	No	-					
			Single Path	No	-					
		SAS	Multi Path (NECSPS)	YES	NEC SPS ARK					
			Single Path (NECSPS)	YES	NEC SPS ARK					
			Single Path (HDLM)	YES	HDLM ARK					
BR1650E BR1650S	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (HDLM)	YES	HDLM ARK						
		Single Path	YES	-						
	iSCSI	Multi Path (HDLM)	No	-						
		Single Path	No	-						
		Single Path	No	-						
HPE	3PAR: 3PAR StoreServ 8200 3PAR StoreServ 8400 3PAR StoreServ 8440 3PAR StoreServ 8450	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path	No	-					
			FC	vSphere (RDM)	YES		No Multipath ARK			
				Multi Path (DMMP)	YES		DMMP ARK			
				Single Path	No		-			
	iSCSI	Multi Path (DMMP)		YES	DMMP ARK					
		Single Path (DMMP)		No	-					
		Single Path		No	-					
		3PAR: 3PAR StoreServ 7400 3PAR StoreServ 7400c 3PAR StoreServ 7440c 3PAR StoreServ 7450 3PAR StoreServ 7450c	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1			
				Multi Path (DMMP)	YES	DMMP ARK				
				Single Path	No	-				
	iSCSI			Multi Path (DMMP)	YES	DMMP ARK				
				Single Path (DMMP)	No	-				
				Single Path	No	-				
		3PAR: 3PAR StoreServ 7200 3PAR StoreServ 7200c	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1			
				Multi Path (DMMP)	YES	DMMP ARK				
				Single Path	No	-				
	iSCSI			Multi Path (DMMP)	No	-				
				Single Path	No	-				
				Single Path	No	-				
		3PAR: 3PAR StoreServ 20450 3PAR StoreServ 20800 3PAR StoreServ 20840 3PAR StoreServ 20850	FC	vSphere (RDM)	YES	No Multipath ARK	v9.1 - v9.1.1			
				Multi Path (DMMP)	YES	DMMP ARK				
				Single Path	No	-				
iSCSI	Multi Path (DMMP)			No	-					
	Single Path			No	-					
	Single Path			No	-					
	3PAR StoreServ 10400	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path	No	-					
iSCSI		Multi Path (DMMP)	No	-						
		Single Path	No	-						
		Single Path	No	-						
3PAR StoreServ 10800	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
	iSCSI	Multi Path (DMMP)	No	-						
		Single Path	No	-						
		Single Path	No	-						
MSA: MSA2042	FC	vSphere (RDM)	YES	No Multipath ARK	v9.1 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
	iSCSI	Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
		Single Path	No	-						
MSA: MSA1040 MSA2040	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
	SAS	vSphere (RDM)	YES	No Multipath ARK						
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
StoreVirtual (LeftHand) Series LeftHand OS version 12.6	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
	iSCSI	Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
		Single Path	No	-						
StoreVirtual (LeftHand) Series LeftHand OS version 11.0 / 11.5 / 12.5	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
	iSCSI	Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
		Single Path	No	-						
HP P9500	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	YES	No Multipath ARK						
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	YES	No Multipath ARK						
		Single Path	YES	No Multipath ARK						
IBM SAN Volume Controller * * IBM TotalStorage Proven	FC	vSphere (RDM)	No	-	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path (DMMP)	YES	No Multipath ARK						
	iSCSI	Multi Path (DMMP)	No	-						
		Single Path (DMMP)	No	-						
		Single Path (DMMP)	No	-						
IBM Storwize V7000	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path (DMMP)	No	-						
	iSCSI	Multi Path (DMMP)	YES	DMMP ARK						
		Single Path (DMMP)	No	-						
		Single Path (DMMP)	No	-						
IBM Storwize V3700	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path (DMMP)	No	-						
	iSCSI	Multi Path (DMMP)	No	-						
		Single Path (DMMP)	No	-						
		Single Path (DMMP)	No	-						
IBM XIV Storage System	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path (DMMP)	No	-						
	iSCSI	Multi Path (DMMP)	YES	DMMP ARK						
		Single Path (DMMP)	No	-						
		Single Path (DMMP)	No	-						
Lenovo	Lenovo Storage V3700 V2 Lenovo Storage V3700 V2 VP	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path (DMMP)	No	-					
		iSCSI	Multi Path (DMMP)	No	-					
			Single Path (DMMP)	No	-					
			Single Path (DMMP)	No	-					
	IBM Storwize V3700	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (DMMP)	YES	DMMP ARK					
			Single Path (DMMP)	No	-					
		iSCSI	Multi Path (DMMP)	No	-					
			Single Path (DMMP)	No	-					
			Single Path (DMMP)	No	-					
NEC	NEC Storage: M10e M100 M110 M300 M310	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (NECSPS)	YES	NECSPS ARK					
			Single Path (NECSPS)	YES	NECSPS ARK					
		iSCSI	Multi Path (NECSPS)	YES	NECSPS ARK					
			Single Path (NECSPS)	No	-					
			Single Path (NECSPS)	No	-					
	NEC Storage: M510 M710 M711	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1				
			Multi Path (NECSPS)	YES	NECSPS ARK					
			Single Path (NECSPS)	YES	NECSPS ARK					
		iSCSI	Multi Path (NECSPS)	YES	NECSPS ARK					
			Single Path (NECSPS)	No	-					
			Single Path (NECSPS)	No	-					
Pure Storage	FC	vSphere (RDM)	YES	No Multipath ARK	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
	iSCSI	Multi Path (DMMP)	No	-						
		Single Path	No	-						
		Single Path	No	-						
FlashArray/m Series //m10 //m20 //m50 //m70	FC	vSphere (RDM)	No	-	v9.0 - v9.1.1					
		Multi Path (DMMP)	YES	DMMP ARK						
		Single Path	No	-						
	iSCSI	Multi Path (DMMP)	No	-						
		Single Path	No	-						
		Single Path	No	-						

(*1): EMC storage for use
LifeKeeper acquired the E-Lab certification. See the matrix below for the EMC storage support.
<http://www.emc.com/interoperability>

(*3): Supported Software
The support information by maker must be referred about the connectivity information of each Multipath software.
Please refer to the release notes for the details about Multipath software support by LifeKeeper.

(*)2: Connecting Configurations

vSphere (RDM)	Connected a shared disk using Raw Device Mapping (RDM) on the VHMware ESX server
Multi Path (DMMP)	Multipath configuration of the shared disk using the Device Mapper Multipath driver
Multi Path (DMMP)	Multipath configuration of the shared disk using the ETERNUS Multipath Driver
Multi Path (HDLM)	Multipath configuration of the shared disk using the Hitachi Dynamic Link Manager driver
Multi Path (RDAC)	Multipath configuration of the shared disk using the IBM Redundant Path Array Controller driver
Multi Path (NECSPS)	Multipath configuration of the shared disk using the Storage StoragePathSavior driver
Single Path (DMMP)	Single path configuration of the shared disk using the Device Mapper Multipath driver
Single Path (RDAC)	Single path configuration of the shared disk using the IBM Redundant Disk Array Controller
Single Path	Single path connection not using a specific multipath driver

(*)4: Supported version of LifeKeeper

This document is written for LifeKeeper for Linux v9.
If you are using a previous version of LifeKeeper, you must refer to the Release Notes for that version for the supported storage list.