



VSP G1500 G1000 F1500 G800 F800 G600 F600 G400 F400 G200 F200

Note: Configurations added since the last matrix will be shown in **red** text.

Introduction

Use this interoperability matrix to check whether a proposed customer configuration is supported. Each tab contains a set of components that together comprise an HDS-supported solution.

Please refer to other additional support matrix for details on version support for : e.g: Symantec for DMP and VCS, HDLM, UVM for supported external storage, storage interoperability for supported switch and HBA,

If a combination does not appear on the OS support matrix, the customer's Hitachi Data Systems Sales Engineer (SE) or other HDS field service employee must submit an Interoperability Support Request in order to gain support for the new configuration.

Note that in some cases a component (HBA, driver, switch, switch firmware version) may no longer be supported (end of service life, EOSL) in which case the customer should choose components that are already supported from the matrix. Click on a tab to view associated components.

Gxx0 refers to : G900,G800,G700, G600, G400,G370,G350 and G200

Fxx0 refers to : F900,F800, F700,F600, F400,F370,F350

G1x00 refers to : G1500 and G1000

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VSP G1x00 F1500 Gxx0 Fxx0 support for Global-Active Devices

OS/Platform	Version	Server Configuration	G1x00, F1500, Gxx0, Fxx0 Multi-path support				Notes
			Native MP	Native MP + ALUA	HDLN *1	VxVM-DMP	
VMware	5.1	Non-Cluster	✓	✓	✓	-	
		VMware HA vMotion	✓		✓	-	
	5.5 - 5.5 U3	Non-Cluster	✓	✓	✓	-	KB2146717 is required
		VMware HA vMotion	✓		✓	-	
		vSphere vMSC	✓		✓	-	Stretched cluster with both FC and iSCSI ESXi hosts is supported. Check VMware KB 2145375 for additional specifics
	6.0 U2 - U3 6.5, 6.5 U1 - U2 6.7 - 6.7 U1	Non-Cluster	✓	✓	✓	-	KB2145663 is required for 6.0 U2 GAD over iSCSI is supported
		VMware HA vMotion	✓		✓	-	KB2145663 is required for 6.0 U2
		vSphere vMSC	✓		✓	-	KB2145663 is required for 6.0 U2 Stretched cluster with both FC and iSCSI ESXi hosts is supported
	AIX	6.1 - 6.1 TL09	Non-Cluster	✓	✓	✓	Submit ISR
HACMP /PowerHA			✓	✓		Submit ISR	
VCS			✓	-		✓	
7.1 - 7.1 TL05		Non-Cluster	✓	✓	✓	Submit ISR	AIX7.1 TL03 or later is required for ALUA.
		HACMP /PowerHA	✓		Submit ISR	Submit ISR	GPFS 4.2 , 5.0 are supported
		VCS	✓		Submit ISR	Submit ISR	
7.2 - 7.2 TL02		Non-Cluster	✓	✓	✓	Submit ISR	GPFS 4.2 , 5.0 are supported
		HACMP /PowerHA	✓		Submit ISR	Submit ISR	
		VCS	✓		Submit ISR	Submit ISR	
VIOS	2.2.0, 2.2.3.0 - 2.2.4+	Non-Cluster	✓	submit ISR	Submit ISR	Submit ISR	IBMI aka AS/400 is supported as guest to VIOS.
Windows	2008	Non-Cluster	✓	✓	✓	Submit ISR	
		MSFC	✓		✓	Submit ISR	
	2008 R2 SP1	Non-Cluster	✓	✓	✓	✓	
		MSFC	✓		✓	✓	
		VCS	✓		✓	✓	
	2012	Non-Cluster	✓	✓	✓	Submit ISR	
		MSFC	✓		✓	Submit ISR	
		VCS	-		-	✓	
	2012 R2	Non-Cluster	✓	✓	✓	✓	
		MSFC	✓		✓	Submit ISR	
		VCS	-		-	✓	
	2016	Non-Cluster	✓	✓	✓	✓	
		MSFC	✓		✓	Submit ISR	
	2019	Non-Cluster	✓	✓	✓	✓	
		MSFC	✓		✓	Submit ISR	

OS/Platform	Version	Server Configuration	G1x00, F1500, Gxx0, Fxx0 Multi-path support				Notes	
			Native MP	Native MP + ALUA	HDLN *1	VxVM-DMP		
Red Hat Linux	5.0 - 5.0 U11	Non-Cluster	✓	submit ISR	✓	✓		
		Red Hat Cluster	✓		✓	-		
		VCS	-		-	✓		
	6.0 - 6.8	Non-Cluster	✓	✓	✓	✓	GPFS 4.2, 5.0 are supported	
		Red Hat Cluster	✓		✓	-		
		Rose HA 10.0	✓		-	-		
		HA Monitor	✓		-	-		
		VCS	-		-	✓		
	7.0 - 7.5	Non-Cluster	✓	✓*	✓	✓	GPFS 4.2, 5.0 are supported *For ALUA with RHEL 7.5, set multipath.conf values: hardware_handler '0', prio_args 'alua'	
		Red Hat Cluster	✓		✓	-		
		Rose HA 10.0	✓		-	-		
		VCS	-		-	✓		
HP-UX	11i V2	Non-Cluster	✓	submit ISR	Not supported	Submit ISR	support for campus configuraton only	
		MC/SG	✓		Not supported	Submit ISR		
		VCS	-		Not supported	✓		
	11i V3	Non-Cluster	✓	✓	Not supported	✓	HP-UX11iV3 2008/03 or later is required for ALUA	
		MC/SG	✓		Not supported	✓		
		VCS	✓		Not supported	✓		
Solaris (SPARC)	10 u1 - 10 u11	Non-Cluster	✓	Not Supported	✓	✓	Solaris10+MPxIO requires patch 150400-22 or later	
		Sun Cluster	✓		✓	Submit ISR		
		VCS	✓		Submit ISR	✓		
	11.1 - 11.3	Non-Cluster	✓	✓*	✓	✓	* ALUA conditionally supported on Solaris 11.3. ISR required to confirm.	
		Sun Cluster	✓		✓	Submit ISR		
		VCS	Submit ISR		Submit ISR	✓		
Solaris (X64)	10 u1 - 10 u11	Non-Cluster	Submit ISR	Not Supported	Not supported	✓		
		VCS	✓		Not supported	✓		
	11.1 - 11.3	Non-Cluster	✓	✓*	Not supported	Submit ISR	* ALUA conditionally supported on Solaris 11.3. ISR required to confirm.	
		Sun Cluster	✓		Not supported	Submit ISR		

OS/Platform	Version	Server Configuration	G1x00, F1500, Gxx0, Fxx0 Multi-path support				Notes
			Native MP	Native MP + ALUA	HDLM *1	VxVM-DMP	
SuSE Linux	11 - 11 SP4	Non-Cluster	✓	✓	Submit ISR	✓	
		Suse HA	✓		Submit ISR	Submit ISR	
		VCS	Submit ISR		Submit ISR	✓	
	12 - 12 SP3	Non-Cluster	✓	✓	Submit ISR	✓	
		Suse HA	✓		Submit ISR	Submit ISR	
Oracle Linux	6 - 6.9	Non-Cluster	✓	submit ISR	Submit ISR	✓	
		VCS	Submit ISR		Submit ISR	✓	
Oracle Linux	7.3 - 7.6	Non-Cluster	✓	✓	✓	Submit ISR	Oracle RAC 12.2 is supported
Oracle VM	3.4.2 - 3.4.4	Non-Cluster	✓	✓	Submit ISR	Submit ISR	Oracle RAC 12c, OCF52 are supported
XENServer	6.5	Non-Cluster	✓	✓	Submit ISR	Submit ISR	
	7.4	Non-Cluster	✓	✓	Submit ISR	Submit ISR	
OpenVMS(IA64)	8.4	Non-Cluster	✓	submit ISR	-	-	
		OpenVMS Cluster	✓		-	-	
HNAS	4040,4060,4080,4100	Single Node	✓	submit ISR	-	-	NASOS 12.4.x or later
		Cluster/Stretched Cluster	✓		-	-	NASOS 12.4.x or later

*1 Optimization/Non Optimization setting of alternate paths with HDLM is supported with HDLM Ver8.0.1 and later.

*2 Apply SP1 and hotfix KB2754704 on Windows 2008 R2 when using with MPIO & DMP

3 **Important:** Please refer to the user matrix "G1x00,F1500,Gxx0 TC_HUR_GAD_Replication intermix matrix" for supported storage models intermixes for GAD in 2DC and GAD + HUR in 3DC configuration

4 EOSL Oses such as Solaris 10, RHEL 5 require Vendors' extended support

5 **Notes when using MPIO for windows 2012-2019.:**

[http://technet.microsoft.com/en-us/library/ee619749\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/ee619749(v=ws.10).aspx)

- Set PathVerifyEnabled to 1.

- Set UseCustomPathRecoveryInterval to 1

- Set a value smaller than PDORemovePeriod (for example, 15) to

PathRecoveryInterval. Example:

PathVerifyEnabled = 1 (Default: 0)

UseCustomPathRecoveryInterval = 1 (Default: 0)

PathRecoveryInterval = 15 (Default:40)

PDORemovePeriod = 20 (Default:20)

Carefully edit the registry: refer to <http://support.microsoft.com/kb/136393>