

Dell VxRail™ 4.7.x Support Matrix

VxRail D, E, G, P, S, and V Series
powered by PowerEdge server platforms

VxRail Engineering
May 2023

Notes, cautions, and warnings



NOTE: A note indicates important information that helps you make better use of your computer.



CAUTION: A caution indicates either potential damage to hardware or loss of data and tells you how to avoid the problem



Warning: A warning indicates a potential for property damage, personal injury, or death.

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1 Revision History

Version	Date	Description
A28	23-May-23	• Add 3.84TB PM6 KIOXIA drive support 13G
A27	27-Oct-22	• Added 4.7.560 release
A26	28-July-22	• Updated the correct FW reversion for BCM574x in release 4.7.542
A25	28-Jun-22	• Added 4.7.550
A24	21-Apr-22	• Added 4.7.542 • Added Seagate Evans 12TB 3.5" HDD
A23	11-Feb-22	• Added 4.7.541/ESXi 6.7 EP23 release • Added new disk group rule (Appendix B, C)
A22	07-Dec-21	• Added 4.7.540/ESXi 6.7 P06 release • Introduced new table for "IDSDM – Valid Versions" • Supported LCM Drive list updated • Supported Boot Devices table updated • Drive table updated with new drives • Corrected Drive table to remove NVMe Cache drives for E665F • Updated Power Supplies table with new PSU support
A21	27-Sep-21	• Added 4.7.536/vCenter 6.7 U3o release • CPLD table updated with new versions
A20	09-Sep-21	• Added 4.7.535 release
A19	26-Aug-21	• Added 4.7.533 CSP release • Drive table updated with new drives
A18	04-Aug-21	• Added 4.7.532 release • FW Min Rev versions updated in drive table • Power Supplies table updated
A17	16-Jun-21	• Critical FW update (Min Rev) for Seagate Lange and Toshiba/Kioxia CD5 drives in drive table
A16	10-Jun-21	• Changed drive table layout • Added notes for clarification on drive FW support • Added Nvidia A40, A100 support
A15	03-Jun-21	• Added 4.7.531, ESXi 6.7 P05/vCSA 6.7 U3n release
A14	27-Apr-21	• Added 4.7.530, ESXi 6.7 P05 • Drive table updated with new supported drives • SAE Support added in SRS/Secure Remote Services table • Correction in Power Supplies table
A13	04-Mar-21	• Added 4.7.527, ESXi 6.7 EP18 • Updated CPLD, Power Supplies tables • Updated Boot devices and drive tables with new FW versions
A12	17-Dec-20	• Added 4.7.526 (SUSE updates and security fixes)
A11	07-Dec-20	• New platform introduction for P675F/N • Added 4.7.525, ESXi 6.7 P04 • Changed FW/Driver table heading row to (6x5) format for R6515/7515 based VxRails in 4.7.520/521/525 releases • Boot device, disk drive tables updated with P675F/N and new drives • Disk Slot Mapping added for P675F/N • SRS/Secure Remote Services table and Power Supplies table updated
A10	11-Nov-20	• Added 4.7.521, ESXi 6.7 EP17 • Added clarifications for unmanaged devices and internal vCenter
A09	23-Oct-20	• Added 4.7.520, ESXi 6.7 EP16 • Updated tables for CPLD, supported LCM devices, unmanaged devices • Updated table for power supplies • Removed redundant sections for VCF and Dell NW SmartFabric support matrix • Few corrections in drive table
A08	09-Oct-20	• Added new drives
A07	04-Sep-20	• Added 4.7.515, ESXi P03 • Corrected an error – added Intel i350 support to all 4.7.x G560/F appliances • Added 480GB M.2 drive, Added Nvidia GPUs to Unmanaged Device table
A06	18-Aug-20	• Added P580N with Persistent Memory • Updated drive table

A05	10-Aug-20	Corrected and updated several links
A04	23-Jun-20	- Added 4.7.500: D560/F, E665/F/N platforms - Modified 4.7.510 to include the D560/F and E665/F/N - Added 4.7.511 ESXi EP15
A03	01-Jun-20	- Corrected X710 driver version - Added VxRail SW build number and VxRail Manager VIB build number to 4.7.510
A02	28-May-20	- Added 4.7.510 release - Added Toshiba CD5, P4510, Intel S4510 to LCM Table
A01	17-Apr-20	- Initial release: Created a unique document for ESXi 6.7.* releases only 4.7.411 release with ESXi 6.7 EP14 - Updated CPLD and CM tables (sections 7.1 and 7.2); Added a Reference Section - Updated Drive table

2 Introduction

This document provides information about supported software, firmware, and hardware versions for VxRail.

NOTE: This Firmware Support Matrix contains the latest compatibility and interoperability information. If you observe inconsistencies between this information and other VxRail documentation or references, this document supersedes all other documentation.

3 References

This section provides links to VxRail matrices, release notes, Statements of Volatility, etc.

The following table provides VxRail matrix documentation and links:

Document	Location
VxRail Appliance Simple Support Matrix	VxRail Simple Support Matrix
VxRail G410 Support Matrix	https://support.emc.com/docu91492
VxRail 4.0.x Support Matrix	https://support.emc.com/docu97640
VxRail 4.5.x Support Matrix	https://support.emc.com/docu97737
VxRail 4.7.x Support Matrix	https://support.emc.com/docu97738
VxRail 7.x Support Matrix	https://support.emc.com/docu97739
VxRail E, G, P, S, V Series Support Matrix (Original)	https://support.emc.com/docu82227
Networking Support & Interoperability Matrix	Networking Support & Interoperability Matrix
VMware Cloud Foundation on VxRail Support Matrix	https://support.emc.com/docu98332

The following table provides VxRail release notes:

Document	Location
VxRail Software 4.0.x Release Notes	https://support.emc.com/docu80740
VxRail Software 4.5.x Release Notes	Dell VxRail 4.5.x Release Notes
VxRail Software 4.7.x Release Notes	Dell VxRail 4.7.x Release Notes
VxRail Software 7.x Release Notes	Dell VxRail 7.0.x Release Notes
VMware Cloud Foundation 4.x on VxRail Release Notes	VMware Cloud Foundation 4.x Release Notes

The following table provides VxRail Statement of Volatility (SoV) guides:

Document	Publication date	Location
VxRail E660/E660F/N Statement of Volatility	3/15/2022	https://support.emc.com/docu105156
VxRail P670F/V670F/S670 Statement of Volatility	3/15/2022	https://support.emc.com/docu105157
VxRail P675F/P675N Statement of Volatility	12/03/2020	https://support.emc.com/docu101603
VxRail D560/D560F Statement of Volatility	6/23/2020	https://support.emc.com/docu99200
VxRail E560/E560F/E560N Statement of Volatility	2/24/2020	https://support.emc.com/docu97449
VxRail E665/E665F/E665N Statement of Volatility	6/23/2020	https://support.emc.com/docu99182
VxRail G560/G560F Statement of Volatility	12/17/2019	https://support.emc.com/docu89621
VxRail P570/S570/V570 Statement of Volatility	7/10/2020	https://support.emc.com/docu99439
VxRail P580N Statement of Volatility	12/10/2019	https://support.emc.com/docu96826

Legend

- New Drives/Components/Updates for this release
- **EOL**
- WI = Write Intensive
- MU = Mixed Use
- RI = Read Intensive

4 VxRail rules

This section contains consideration rules when using VxRail.

Table 1 VxRail rules

Information	Description
Minimum number of VxRail nodes in a cluster Exception: specific 2-node vSAN configurations with a witness Exception: For 4.0.x and 4.5.x releases below 4.5.150; the first four (4) nodes of any cluster must be homogeneous, and the configurations must match	3
Maximum number of VxRail nodes in a cluster: For releases before 4.0.400/4.5.101/4.7.000, any configuration greater than 32 nodes will require a request for product qualification (RPQ)	64
All nodes in a cluster must run the same version of VxRail software	✓
Hybrid and All-Flash nodes cannot be mixed in the same cluster	✓
Maximum of 8 nodes when only using a 1 GbE network	✓
10GbE and 1GbE networks cannot both be used for VSAN traffic	✓
10GbE and 25GbE networks cannot both be used for VSAN traffic	✓

5 Supported VxRail configurations

Table 2 Supported VxRail configurations

Model	Configuration	Chassis
VxRail E460	Hybrid	10 x 2.5" drive slots
VxRail E460F	All Flash	10 x 2.5" drive slots
VxRail P470	Hybrid	16 x 2.5" drive slots
VxRail P470F	All Flash	16 x 2.5" drive slots
VxRail V470	Hybrid	16 x 2.5" drive slots
VxRail V470F	All Flash	16 x 2.5" drive slots
VxRail S470	Hybrid	12 x 3.5" and 2 x 2.5" drive slots

Model	Configuration	Chassis
VxRail G560	Hybrid	24 x 2.5" drive slots
VxRail G560/F	All Flash	24 x 2.5" drive slots
VxRail D560	Hybrid	8 x 2.5" drive slots
VxRail D560/F	All Flash	8 x 2.5" drive slots
VxRail E560	Hybrid	10 x 2.5" drive slots
VxRail E560F	All Flash	10 x 2.5" drive slots
VxRail E560N	All-NVMe	10 x 2.5" drive slots
VxRail P570	Hybrid	24 x 2.5" drive slots
VxRail P570F	All Flash	24 x 2.5" drive slots
VxRail V570	Hybrid	24 x 2.5" drive slots
VxRail V570F	All Flash	24 x 2.5" drive slots
VxRail S570	Hybrid	12 x 3.5" and 2 x 2.5" drive slots
VxRail P580N	All-NVMe	24 x 2.5" drive slots

Model	Configuration	Chassis
VxRail E665	Hybrid	8 x 2.5" drive slots
VxRail E665F	All Flash	8 x 2.5" drive slots
VxRail E665N	All-NVMe	10 x 2.5" drive slots
VxRail P675F	All Flash	24 x 2.5" drive slots
VxRail P675N	All-NVMe	24 x 2.5" drive slots

1. D = D Series platforms (1U, VxRail branded Dell PowerEdge XR2)
2. E = E Series platforms (1U, VxRail branded Dell PowerEdge R630, R640, R6515)
3. P = P Series platforms (2U, VxRail branded Dell PowerEdge R730, R740xd, R840, R7515)
4. V = V Series platforms, includes GPUs (2U, VxRail branded Dell R730, R740xd)
5. S = S Series platforms, 3.5" HDD (2U, VxRail branded Dell R730, R740xd)
6. G = G Series platforms (2U/4N, VxRail branded Dell C6420)

6 VxRail 4.7.x with ESXi 6.7 supported firmware and drivers

6.1 4.7.000/6.7 EP5

ESXi	6.7 EP5 (4xx)		6.7 EP5 (5xx)		6.7 EP5 (G560/F)		
vSAN	6.7 U1		6.7 U1		6.7 U1		
VxRail	4.7.000		4.7.000		4.7.000		
BIOS	2.8.0 (2JFRF)		1.4.9 (422T0)		1.4.9 (V1W6G)		
HBA	FW	Driver	FW	Driver	FW	Driver	
HBA330 Mini	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00	
HBA330 Adapter	NA	NA	15.17.09.06 (7KY60)	16.00.01.00	NA	NA	
NDC and NICs	FW	Driver	FW	Driver	FW	Driver	
Intel i350	18.5.18 (3XJH0)	1.4.1	NA	NA	18.5.18 (3XJH0)	1.4.1	
Intel X520	18.5.18 (3XJH0)	1.6.5	NA	NA	NA	NA	
Intel X540	18.5.18 (3XJH0)	1.6.5	NA	NA	NA	NA	
Intel X550	18.5.18 (3XJH0)	1.6.5	18.5.18 (3XJH0)	1.6.5	18.5.18 (3XJH0)	1.6.5	
Intel X710	18.5.17 (T6VN9)	1.5.8	18.5.17 (T6VN9)	1.5.8	18.5.17 (T6VN9)	1.5.8	
BCM57414	NA	NA	20.08.04.04 (X31PR)	20.8.152.0	NA	NA	
iDRAC	2.60.60.60 (CX8N2)		3.21.23.22 (K877V)		3.21.23.22 (K877V)		
PTAgent	1.8.1-21		1.8.1-21		1.8.1-21		
iSM	3.3-1290 (833XD)		3.3-1290 (833XD)		3.3-1290 (833XD)		
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory .215)	
M.2 disk	NA		See Section 11		See Section 11		
BOSS/SATADOM	S130710K		2.5.13.3011 (RPD7Y) 2.5.13.3016 (MKV82) (Man)		NA		
Expander BP	3.35 (HYPYY)		2.25 (PP61J)		NA		
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) (Factory .215)	4.27 (WVG4W) (RTW)
CPLD	NA		See tables in section 8		See tables in section 8		
Chassis Mgmt Brd	NA		NA		See table in section 8.2		
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA		
Software Item	Version						
VxRail Manager	4.7.000 10825282						
Secure Remote Services	See Section 7						
Log Insight	4.6.0 8080673						
vCenter**	6.7 10244745						
ESXi	6.7 EP5 10764712						
Platform Service	4.7.000						

RTW = Release to Web

Man = Solve Procedure Required to perform update

** VxRail-managed VMware vCenter Server

6.2 4.7.001/6.7 EP5

ESXi	6.7 EP5 (4xx)		6.7 EP5 (5xx)		6.7 EP5 (G560/F)	
vSAN	6.7 U1		6.7 U1		6.7 U1	
VxRail	4.7.001		4.7.001		4.7.001	
BIOS	2.8.0 (2JFRF)		1.4.9 (422T0)		1.4.9 (V1W6G)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00
HBA330 Adapter	NA	NA	15.17.09.06 (7KY60)	16.00.01.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	20.08.04.04 (X31PR)	20.8.152.0	NA	NA
iDRAC	2.60.60.60 (CX8N2)		3.21.23.22 (K877V)		3.21.23.22 (K877V)	
PTAgent	1.8.1-21		1.8.1-21		1.8.1-21	
iSM	3.3-1290 (833XD)		3.3-1290 (833XD)		3.3-1290 (833XD)	
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory .215)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3016 (MKV82)		NA	
Expander BP	3.35 (HYPYY)		2.25 (PP61J)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) (Factory .215) 4.27 (WVG4W) (RTW)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.001 11073036
Secure Remote Services	See Section 7
Log Insight	4.6.0 8080673
vCenter**	6.7 10244745
ESXi	6.7 EP5 10764712
Platform Service	4.7.001

RTW = Release to Web

Man = SOLVE Procedure Required to perform update

** VxRail-managed VMware vCenter Server

6.3 4.7.100/6.7 EP5

ESXi	6.7 EP6 (4xx)		6.7 EP6 (5xx)		6.7 EP6 (G560/F)	
vSAN	6.7 U1		6.7 U1		6.7 U1	
VxRail	4.7.100		4.7.100		4.7.100	
BIOS	2.8.0 (2JFRF)		1.6.12 (CVHH4)		1.6.11 (NDPCR)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.03 (8VCXF)	17.00.01.00	16.17.00.03 ((8VCXF)	17.00.01.00	16.17.00.03 (8VCXF)	17.00.01.00
	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00
HBA330 Adapter	NA	NA	16.17.00.03 (08TG4) 15.17.09.06 (7KY60)	17.00.01.00 16.00.01.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	21.40.16.60 (GCC9R)	212.0.119.0	NA	NA
iDRAC	2.61.60.60 (CX8N2)		3.21.26.22 (FDMV1)		3.21.26.22 (K877V)	
PTAgent	1.8.3-8		1.8.3-8		1.8.3-8	
iSM	3.3-1290 (833XD)		3.3-1290 (833XD)		3.3-1290 (833XD)	
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3016 (MKV82)		NA	
Expander BP	3.35 (HYPYY)		2.40 (VFJX7)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) (Factory .215) 4.27 (WVG4W) (RTW)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA	
Software Item	Version					
VxRail Manager	4.7.100 11859440					
Secure Remote Services	See Section 7					
Log Insight	4.6.0 8080673					
vCenter**	6.7 11726888					
ESXi	6.7 EP6 11675023					
Platform Service	4.7.100					

RTW = Release to Web

Man = SOLVE Procedure Required to perform update

** VxRail-managed VMware vCenter Server

6.4 4.7.110/6.7 EP6

ESXi	6.7 EP6 (4xx)		6.7 EP6 (5xx)		6.7 EP6 (G560/F)	
vSAN	6.7 U1		6.7 U1		6.7 U1	
VxRail	4.7.110		4.7.110		4.7.110	
BIOS	2.8.0 (2JFRF)		1.6.12 (CVVH4)		1.6.11 (NDPCR)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00
HBA330 Adapter	NA	NA	15.17.09.06 (7KY60)	16.00.01.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	21.40.16.60 (GCC9R)	212.0.119.0	NA	NA
iDRAC	2.61.60.60 (CX8N2)		3.21.26.22 (FDMV1)		3.21.26.22 (K877V)	
PTAgent	1.8.3-8		1.8.3-8		1.8.3-8	
iSM	3.3-1290 (833XD)		3.3-1290 (833XD)		3.3-1290 (833XD)	
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3016 (MKV82)		NA	
Expander BP	3.35 (HYPYY)		2.40 (VFJX7)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) (Factory .215) 4.27 (WVG4W) (Factory .110)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.110 12663824
Secure Remote Services	See Section 7
Log Insight	4.6.0 8080673
vCenter**	6.711726888
ESXi	6.7 EP6 11675023
Platform Service	4.7.110

RTW = Release to Web

Man = SOLVE Procedure Required to perform update

** VxRail-managed VMware vCenter Server

6.5 4.7.111/6.7 EP7

ESXi	6.7 EP7 (4xx)		6.7 EP7 (5xx)		6.7 EP7 (G560/F)	
vSAN	6.7 EP07		6.7 EP07		6.7 EP07	
VxRail	4.7.111		4.7.111		4.7.111	
BIOS	2.8.0 (2JFRF)		1.6.12 (CVHH4)		1.6.11 (NDPCR)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00
HBA330 Adapter	NA	NA	15.17.09.06 (7KY60)	16.00.01.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	21.40.16.60 (GCC9R)	212.0.119.0	NA	NA
iDRAC	2.61.60.60 (CX8N2)		3.21.26.22 (FDMV1)		3.21.26.22 (K877V)	
PTAgent	1.8.3-8		1.8.3-8		1.8.3-8	
iSM	3.3-1290 (833XD)		3.3-1290 (833XD)		3.3-1290 (833XD)	
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3016 (MKV82)		NA	
Expander BP	3.35 (HYPYY)		2.40 (VFJX7)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) (Factory .215) 4.27 (WVG4W) (Factory .110)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.111 13048811
Secure Remote Services	See Section 7
Log Insight	4.6.0 8080673
vCenter**	6.7 U1b 11726888
ESXi	6.7 EP7 13004448
Platform Service	4.7.111

RTW = Release to Web

Man = SolVE Procedure Required to perform update

** VxRail-managed VMware vCenter Server

6.6 4.7.200/6.7 U2

ESXi	6.7 U2 (13G)		6.7 U2 (5xx)		6.7 U2 (G560/F)	
vSAN	6.7 U2		6.7 U2		6.7 U2	
VxRail	4.7.200		4.7.200		4.7.200	
BIOS	2.9.1 (T9YX9)		1.6.12 (CVHH4)		1.6.11 (NDPCR)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00
HBA330 Adapter	NA	NA	15.17.09.06 (7KY60)	16.00.01.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	21.40.20.70 (5T5F3)	214.0.195.0	21.40.20.70 (5T5F3)	214.0.195.0
Qlogic 41112/41162/41164	NA	NA	NA	NA	NA	NA
Mellanox CX4-LX	NA	NA	NA	NA	NA	NA
iDRAC	2.61.60.60 (1HY5M)		3.32.32.32 (VYRKT)		3.32.32.32 (VYRKT)	
PTAgent	1.8.4-9		1.8.4-9		1.8.4-9	
iSM	3.4-1471 (81T7H)		3.4-1471 (81T7H)		3.4-1471 (81T7H)	
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3016 (MKV82)		NA	
Expander BP	3.35 (HYPYY)		2.41 (762CC)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) 4.27 (WVG4W) (Factory .110)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA	
Software Item	Version					
VxRail Manager	4.7.200 13531218					
Secure Remote Services	See Section 7					
Log Insight	4.6.0 8080673					
vCenter**	6.7 U2 13010631					
ESXi	6.7 U2 13006603					
Platform Service	4.7.200					

RTW = Release to Web

Man = SOLVE Procedure Required to perform update

** VxRail-managed VMware vCenter Server

6.7 4.7.210/6.7 EP09

ESXi	6.7 EP09 (4xx)		6.7 EP09 (5xx)		6.7 EP09 (G560/F)	
vSAN	6.7 EP09		6.7 EP09		6.7 EP09	
VxRail	4.7.210		4.7.210		4.7.210	
BIOS	2.9.1 (T9YX9)		2.1.8 (DVH2J)		2.1.8 (1M4NC)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	15.17.09.06 (MF6CM)	17.00.01.00*	15.17.09.06 (MF6CM)	17.00.01.00*	15.17.09.06 (MF6CM)	17.00.01.00*
HBA330 Adapter	NA	NA	15.17.09.06 (7KY60)	17.00.01.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	21.40.22.21 (6DR4K)	214.0.195.0	21.40.22.21 (6DR4K)	214.0.195.0
Qlogic 41112/41162/41164	NA	NA	14.10.07 (F7C1C)	3.9.31.2	14.10.07 (F7C1C)	3.9.31.2
Mellanox CX4-LX	NA	NA	14.24.80.00 (H7X05)	4.17.13.8	14.24.80.00 (H7X05)	4.17.13.8
iDRAC	2.61.60.60 (1HY5M)		3.32.32.32 (VYRKT)		3.32.32.32 (VYRKT)	
PTAgent	1.8.5-12		1.8.5-12		1.8.5-12	
iSM	3.4-1471 (81T7H)		3.4-1471 (81T7H)		3.4-1471 (81T7H)	
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3016 (MKV82)		NA	
Expander BP	3.35 (HYPYY)		2.41 (762CC)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) 4.27 (WVG4W) (Factory .110)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.210 13820133
Secure Remote Services	See Section 7
Log Insight	4.6.0 8080673
vCenter**	6.7 U2a 13643870
ESXi	6.7 EP09 13644319
Platform Service	4.7.210

RTW = Release to Web Man = SolVE Procedure Required to perform update

* Inbox driver

** VxRail-managed VMware vCenter Server

6.8 4.7.211/6.7 EP09

ESXi	6.7 EP09 (4xx)		6.7 EP09 (5xx)		6.7 EP09 (G560/F)	
vSAN	6.7 EP09		6.7 EP09		6.7 EP09	
VxRail	4.7.211		4.7.211		4.7.211	
BIOS	2.9.1 (T9YX9)		2.1.8 (DVH2J)		2.1.8 (1M4NC)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	15.17.09.06 (MF6CM)	17.00.01.00*	15.17.09.06 (MF6CM)	17.00.01.00*	15.17.09.06 (MF6CM)	17.00.01.00*
HBA330 Adapter	NA	NA	15.17.09.06 (7KY60)	17.00.01.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	21.40.22.21 (6DR4K)	214.0.195.0	21.40.22.21 (6DR4K)	214.0.195.0
Qlogic 41112/41162/41164	NA	NA	14.10.07 (F7C1C)	3.9.31.2	14.10.07 (F7C1C)	3.9.31.2
Mellanox CX4-LX	NA	NA	14.24.80.00 (H7X05)	4.17.13.8	14.24.80.00 (H7X05)	4.17.13.8
iDRAC	2.61.60.60 (1HY5M)		3.32.32.32 (VYRKT)		3.32.32.32 (VYRKT)	
PTAgent	1.8.5-12		1.8.5-12		1.8.5-12	
iSM	3.4-1471 (81T7H)		3.4-1471 (81T7H)		3.4-1471 (81T7H)	
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3016 (MKV82)		NA	
Expander BP	3.35 (HYPYY)		2.41 (762CC)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) 4.27 (WVG4W) (Factory .110)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.211 13893929
Secure Remote Services	See Section 7
Log Insight	4.6.0 8080673
vCenter**	6.7 U2a 13643870
ESXi	6.7 EP09 13644319
Platform Service	4.7.211

RTW = Release to Web Man = SolVE Procedure Required to perform update

* Inbox driver

** VxRail-managed VMware vCenter Server

6.9 4.7.212/6.7 EP10

ESXi	6.7 EP10 (4xx)		6.7 EP10 (5xx)		6.7 EP10 (G560/F)	
vSAN	6.7 EP10		6.7 EP10		6.7 EP10	
VxRail	4.7.212		4.7.212		4.7.212	
BIOS	2.9.1 (T9YX9)		2.1.8 (DVH2J)		2.1.8 (1M4NC)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	15.17.09.06 (MF6CM)	17.00.01.00*	15.17.09.06 (MF6CM)	17.00.01.00*	15.17.09.06 (MF6CM)	17.00.01.00*
HBA330 Adapter	NA	NA	15.17.09.06 (7KY60)	17.00.01.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	21.40.22.21 (6DR4K)	214.0.195.0	21.40.22.21 (6DR4K)	214.0.195.0
Qlogic 41112/41162/41164	NA	NA	14.10.07 (F7C1C)	3.9.31.2	14.10.07 (F7C1C)	3.9.31.2
Mellanox CX4-LX	NA	NA	14.24.80.00 (H7X05)	4.17.13.8	14.24.80.00 (H7X05)	4.17.13.8
iDRAC	2.61.60.60 (1HY5M)		3.32.32.32 (VYRKT)		3.32.32.32 (VYRKT)	
PTAgent	1.8.5-12		1.8.5-12		1.8.5-12	
iSM	3.4-1471 (81T7H)		3.4-1471 (81T7H)		3.4-1471 (81T7H)	
PM	1.16	2.07	1.08	1.11(Factory)	1.03	1.04(Factory)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3016 (MKV82)		NA	
Expander BP	3.35 (HYPYY)		2.41 (762CC)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) 4.27 (WVG4W) (Factory .110)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.7 (FF4WY) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.212 14215560
Secure Remote Services	See Section 7
Log Insight	4.6.0 8080673
vCenter**	6.7 U2c 14070457
ESXi	6.7 EP10 13981272
Platform Service	4.7.212

RTW = Release to Web

Man = SolVE Procedure Required to perform update

* Inbox driver

** VxRail-managed VMware vCenter Server

6.10 4.7.300/6.7 U3

ESXi	6.7 U3 (4xx)		6.7 U3 (5xx)		6.7 U3 (G560/F)	
vSAN	6.7U3		6.7U3		6.7 U3	
VxRail	4.7.300		4.7.300		4.7.300	
BIOS	2.9.1 (T9YX9)		2.2.11 (NM8WY)		2.2.11 (GWR4J)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 YXWY1)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.00.05 (TF1M6)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10
Intel X710	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11	18.8.9 (3W5Y5)	1.7.11
BCM57414	NA	NA	21.40.22.21 (6DR4K)	214.0.195.0	21.40.22.21 (6DR4K)	214.0.195.0
Qlogic 41112/41162/41164	NA	NA	14.10.07 (F7C1C)	3.9.31.2	14.10.07 (F7C1C)	3.9.31.2
Mellanox CX4-LX	NA	NA	14.24.80.00 (H7X05)	4.17.13.8	14.24.80.00 (H7X05)	4.17.13.8
iDRAC	2.63.60.61 (40T1C)		3.34.34.34 (3HT97)		3.34.34.34 (3HT97)	
PTAgent	1.9.2-20		1.9.2-20		1.9.2-20	
iSM	3.4-1471 (81T7H)		3.4-1471 (81T7H)		3.4-1471 (81T7H)	
PM	1.16	2.07	1.08, 1.11	1.12(Factory)	1.03. 1.04	1.05(Factory)
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3020 (M70K4)		NA	
Expander BP	3.35 (HYPYY)		2.41 (762CC)		NA	
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y) 4.27 (WVG4W) (Factory .110)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.300 14450150
Secure Remote Services	See Section 7
Log Insight	4.8.0 13036238
vCenter**	6.7 U3 14367737
ESXi	6.7 U3 14320388
Platform Service	4.7.300

RTW = Release to Web Man = SolVE Procedure Required to perform update

* Inbox driver

** VxRail-managed VMware vCenter Server

6.11 4.7.301/6.7 EP13

ESXi	6.7 EP13 (4xx)		6.7 EP13 (5xx)		6.7 EP13 (G560/F)		
vSAN	6.7U3		6.7U3		6.7 U3		
VxRail	4.7.301		4.7.301		4.7.301		
BIOS	2.10.5 (1RKPD)		2.4.8 (9P3C0)		2.4.8 (8G2RV)		
HBA	FW	Driver	FW	Driver	FW	Driver	
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 YXWY1)	17.00.02.00*	
HBA330 Adapter	NA	NA	16.17.00.05 (TF1M6)	17.00.02.00*	NA	NA	
NDC and NICs	FW	Driver	FW	Driver	FW	Driver	
Intel i350	18.8.9 (YHF9V)	1.4.7	NA	NA	18.8.9 (YHF9V)	1.4.7	
Intel X520	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA	
Intel X540	18.8.9 (YHF9V)	1.7.10	NA	NA	NA	NA	
Intel X550	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	18.8.9 (YHF9V)	1.7.10	
Intel X710	19.0.12 (T6HGD)	1.8.6	19.0.12 (T6HGD)	1.8.6	19.0.12 (T6HGD)	1.8.6	
BCM57414	NA	NA	21.40.22.21 (6DR4K)	214.0.195.0	21.40.22.21 (6DR4K)	214.0.195.0	
Qlogic 41112/41162/41164	NA	NA	14.10.07 (F7C1C)	3.9.31.2	14.10.07 (F7C1C)	3.9.31.2	
Mellanox CX4-LX	NA	NA	14.24.80.00 (H7X05)	4.17.13.8	14.24.80.00 (H7X05)	4.17.13.8	
iDRAC	2.70.70.70 (DNH17)		3.36.36.37 (8KD4H)		3.36.36.37 (8KD4H)		
PTAgent	1.9.2-20		1.9.2-20		1.9.2-20		
iSM	3.4-1471 (81T7H)		3.4-1471 (81T7H)		3.4-1471 (81T7H)		
PM	1.16	2.07	1.08, 1.11	1.12(Factory)	1.03, 1.04	1.05(Factory)	
M.2 disk	NA		See Section 11		See Section 11		
BOSS/SATADOM	S130710K		2.5.13.3020 (M70K4)		NA		
Expander BP	3.35 (HYPYY)		2.41 (762CC)		NA		
Non-Expander BP	2.25 (HRP1V)		4.27 (S570 only) (9NKWP)		4.18 (RW0VY)	4.23 (8J57Y)	4.27 (WVG4W) (Factory .110)
CPLD	NA		See tables in section 8		See tables in section 8		
Chassis Mgmt Brd	NA		NA		See table in section 8.2		
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA		
Software Item	Version						
VxRail Manager	4.7.301 15195814						
Secure Remote Service	See Section 7						
Log Insight	4.8.0 13036238						
vCenter**	6.7 U3a 14836122						
ESXi	6.7 EP13 15018017						
Platform Service	4.7.301						

RTW = Release to Web Man = SolVE Procedure Required to perform update

* Inbox driver

** VxRail-managed VMware vCenter Server

6.12 4.7.400/6.7 U3

ESXi	6.7 U3 (5xx – E560N)	6.7 U3 (5xx – P580N)
vSAN	6.7U3	6.7 U3
VxRail	4.7.400	4.7.400
BIOS	2.3.10 (2R7N3)	2.3.10 (F8GC2)
HBA	FW	Driver
HBA330 Mini	NA	NA
HBA330 Adapter	NA	NA
NDC and NICs	FW	Driver
Intel i350	NA	NA
Intel X520	NA	NA
Intel X540	NA	NA
Intel X550	19.0.12 (GK57C)	1.7.17 (ixbgen)/1.4.7 igbn
Intel X710	19.0.12 (T6HGD)	1.8.6 i40en
BCM57414	21.40.22.21 (6DR4K)	214.0.195.0 bnxtnet
Qlogic 41112/41162/41164	15.00.14 (VX5JV)	3.11.7.0 qedentv
Mellanox	14.25.10.20 (KTK6H)	4.17.15.16 nmlx5-core
iDRAC	3.36.36.37 (8KD4H)	
PTAgent	1.9.4-35	
iSM	3.4.0-1471 (TRRWT)	
PM	1.11, 1.12(Factory)	1.0,1.01(Factory)
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3022 (MTPW6)	
Expander BP	2.46 (2F90T)	NA
Non-Expander BP	NA	4.32 (TJCXW)
CPLD	See tables in section 8	
Chassis Mgmt Brd	NA	
IDSDM	1.9 (3N5TF) (See table in section 8.3)	

Software Item	Version
VxRail Manager	4.7.400 14824664
Secure Remote Services	See Section 7
Log Insight	4.8.0 13036238
vCenter**	6.7 U3 14367737
ESXi	6.7 U3 14320388
Platform Service	4.7.400

RTW = Release to Web Man = SoI VE Procedure Required to perform update ** VxRail-managed VMware vCenter Server

6.13 4.7.410/6.7 P01

ESXi	6.7 P01 (4xx)		6.7 P01 (5xx)		6.7 P01 (G560/F)	
vSAN	6.7 P01		6.7 P01		6.7 P01	
VxRail	4.7.410		4.7.410		4.7.410	
BIOS	2.10.5 (1RKPD)		2.4.8 (9P3C0)/P580N 2.4.7 (248JG)		2.4.8 (8G2RV)	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 YXWY1)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.00.05 (TF1M6)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.0.12 (GK57C)	1.4.10	NA	NA	19.0.12 (GK57C)	1.4.10
Intel X520	19.0.12 (GK57C)	1.7.17	NA	NA	NA	NA
Intel X540	19.0.12 (GK57C)	1.7.17	NA	NA	NA	NA
Intel X550	19.0.12 (GK57C)	1.7.17	19.0.12 (GK57C)	1.7.17	19.0.12 (GK57C)	1.7.17
Intel X710	19.0.12 (T6HGD)	1.8.6	19.0.12 (T6HGD)	1.8.6	19.0.12 (T6HGD)	1.8.6
BCM57414	NA	NA	21.40.25.31 (GX98F)	214.0.230.0	21.40.25.31 (GX98F)	214.0.230.0
Qlogic 41112/41162/41164	NA	NA	15.00.14 (VX5JV)	3.11.7.0	15.00.14 (VX5JV)	3.11.7.0
Mellanox CX4-LX	NA	NA	14.25.10.20 (KTK6H)	4.17.15.16	14.25.10.20 (KTK6H)	4.17.15.16
iDRAC	2.70.70.70 (DNH17)		3.36.36.37 (8KD4H)		3.36.36.37 (8KD4H)	
PTAgent	1.9.4-41		1.9.4-41		1.9.4-41	
iSM	3.4.1-1818 (81T7H)		3.4.1-1818 (81T7H)		3.4.1-1818 (81T7H)	
PM	1.16	2.07	1.11, 1.12	P580N 1.0,1.01	1.03, 1.04, 1.05(Factory)	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3022 (MTPW6)		NA	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.32 (S570, P580N) (TJCXW)		4.18 (RW0VY)	4.23 (8J57Y) 4.27 (WVG4W)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.410 26262335
Secure Remote Services	See Section 7
Log Insight	4.8.0 13036238
vCenter**	6.7 U3b 15132721
ESXi	6.7 P01 15160138
Platform Service	4.7.410

RTW = Release to Web

Man = SolVE Procedure Required to perform update

* Inbox driver

** VxRail-managed VMware vCenter Server

6.14 4.7.411/6.7 EP14

ESXi	6.7 EP14 (4xx)		6.7 EP14 (5xx)		6.7 EP14 (G560/F)	
vSAN	6.7 EP14		6.7 EP14		6.7 EP14	
VxRail	4.7.411		4.7.411		4.7.411	
BIOS	2.10.5 (1RKPD)		2.4.8 (9P3C0)/P580N 2.4.7 (248JG)		2.4.8 (8G2RV)	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 YXWY1)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.00.05 (TF1M6)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.0.12 (GK57C)	1.4.10	NA	NA	19.0.12 (GK57C)	1.4.10
Intel X520	19.0.12 (GK57C)	1.7.17	NA	NA	NA	NA
Intel X540	19.0.12 (GK57C)	1.7.17	NA	NA	NA	NA
Intel X550	19.0.12 (GK57C)	1.7.17	19.0.12 (GK57C)	1.7.17	19.0.12 (GK57C)	1.7.17
Intel X710	19.0.12 (T6HGD)	1.8.6	19.0.12 (T6HGD)	1.8.6	19.0.12 (T6HGD)	1.8.6
BCM57414	NA	NA	21.40.25.31 (GX98F)	214.0.230.0	21.40.25.31 (GX98F)	214.0.230.0
Qlogic 41112/41162/41164	NA	NA	15.00.14 (VX5JV)	3.11.7.0	15.00.14 (VX5JV)	3.11.7.0
Mellanox CX4-LX	NA	NA	14.25.10.20 (KTK6H)	4.17.15.16	14.25.10.20 (KTK6H)	4.17.15.16
iDRAC	2.70.70.70 (DNH17)		3.36.36.37 (8KD4H)		3.36.36.37 (8KD4H)	
PTAgent	1.9.4-41		1.9.4-41		1.9.4-41	
iSM	3.4.1-1818 (81T7H)		3.4.1-1818 (81T7H)		3.4.1-1818 (81T7H)	
PM	1.16	2.07	1.11, 1.12	P580N 1.0,1.01	1.03, 1.04, 1.05(Factory)	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3022 (MTPW6)		NA	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.32 (S570, P580N) (TJCXW)		4.18 (RW0VY)	4.23 (8J57Y) 4.27 (WVG4W)
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version
VxRail Manager	4.7.411 26446498
Secure Remote Services	See Section 7
Log Insight	4.8.0 13036238
vCenter**	6.7 U3f 15976714
ESXi	6.7 EP14 15820472
Platform Service	4.7.411

RTW = Release to Web Man = SolVE Procedure Required to perform update

* Inbox driver

** VxRail-managed VMware vCenter Server

6.15 4.7.500/6.7 P01

ESXi	6.7 P01 (D560/F)		6.7 P01 (E665/F/N)	
vSAN	6.7 P01		6.7 P01	
VxRail	4.7.500		4.7.500	
BIOS	2.6.3 (XPGF1)		1.3.51 (WM6XF)	
HBA	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.05(YXWY1)	17.00.02.00*	16.17.00.05(YXWY1)	17.00.02.00*
HBA330 Adapter	NA		NA	
NDC and NICs	FW	Driver	FW	Driver
Intel X550	19.5.12 (40NTK)	1.7.20	NA	
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BRCM 5720	21.60.2 (RG25N)	216.0.42.4	21.60.2 (RG25N)	216.0.42.4
BCM 57414/57416	21.60.22.11 (YK81Y)	216.0.42.4	21.60.22.11 (YK81Y)	216.0.42.4
Qlogic 41112/41162/41164	15.05.14 (GD5FW)	3.11.16.0	NA	
Marvell FastLinQ 41232	NA		15.05.14 (GD5FW)	3.11.16.0
Mellanox CX4	14.25.80.00 (5T22D)	4.17.15.16	NA	
Mellanox CX5	14.25.82.02 (89X3D)	4.17.15.16	NA	NA
iDRAC	4.10.10.10 (KTC95)			
PTAgent	1.9.6			
iSM	3.5.0			
PM	1.0(Factory)		1.0(Factory)	
M.2 disk	See Section 11			
BOSS	2.5.13.3022 (MTPW6)			
Expander BP	NA			
Non-Expander BP	4.35 (VV85D)			
CPLD	See tables in section 8			
Chassis Mgmt Brd	NA			
IDSDM	Not Present in Either Platform			

Software Item	Version
VxRail Software	4.7.500 26456207
Secure Remote Services	See Section 7
Log Insight	4.8.0 13036238
vCenter**	6.7 U3b 15132721
ESXi	6.7 P01 15160138
VxRail Manager VIB	4.7.500 16068842

* Inbox driver

** VxRail-managed VMware vCenter Server

6.16 4.7.510/6.7 P02

ESXi	6.7 P02 (4xx)		6.7 P02 (5xx)		6.7 P02 (D/G560/F)	
vSAN	6.7 P02		6.7 P02		6.7 P02	
VxRail	4.7.510		4.7.510		4.7.510	
BIOS	2.11.0 (7YNRC)		2.6.4 (R6HXJ)/P580N 2.6.4 (JRNfJ)		2.6.3 (P1TP2) G560/F/(XPGF1) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.00.05 (TF1M6)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.2 (RG25N) D560/F	216.0.42.4 D560/F
BCM 57414	NA	NA	21.60.22.11 (YK81Y)	216.0.42.4	21.60.22.11 (YK81Y)	216.0.42.4
Qlogic 41112/41162/41164	NA	NA	15.05.14 (GD5FW)	3.11.16.0	15.05.14 (GD5FW)	3.11.16.0
Mellanox CX4-LX	NA	NA	14.25.80.00 (5T22D)	4.17.15.16	14.25.80.00 (5T22D)	4.17.15.16
Mellanox CX5-LX	NA	NA	16.25.82.02 (89X3D)	4.17.15.16	16.25.82.02 (89X3D)	4.17.15.16
iDRAC	2.70.70.70 (DNH17)		4.10.10.10 (KTC95)		4.10.10.10 (KTC95)	
PTAgent	1.9.6		1.9.6		1.9.6	
iSM	3.5.1		3.5.1		3.5.1	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04,1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3022 (MTPW6)		NA	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	
Software Item	Version					
VxRail System	4.7.510 26492623					
Secure Remote Services	See Section 7					
Log Insight	4.8.0 13036238					
vCenter**	6.7 P02 16046713					
ESXi	6.7 P02 16075168					

VxRail Manager	4.7.510 16222977	
ESXi	6.7 P02 E665/F/N	
vSAN	6.7 P02	
VxRail	4.7.510	
BIOS	1.3.51 (WM6XF)	
	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*
HBA330 Adapter	16.17.00.05 (TF1M6)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM57414	21.60.22.11 (YK81Y)	216.0.42.4
Marvell FastLinQ 41232	15.05.14 (GD5FW)	3.11.16.0
Mellanox CX5-LX	NA	NA
iDRAC	4.10.10.10 (KTC95)	
PTAgent	1.9.6	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3022 (MTPW6)	
Non-Expander BP	4.35 (VV85D)	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail Software	4.7.510 26492623
Secure Remote Services	See Section 7
Log Insight	4.8.0 13036238
vCenter**	6.7 P02 16046713
ESXi	6.7 P02 16075168
VxRail Manager VIB	4.7.510 16222977

* Inbox driver

** VxRail-managed VMware vCenter Server

6.17 4.7.511/6.7 EP15

ESXi	6.7 EP15 (4xx)		6.7 EP15 (5xx)		6.7 EP15 (D/G560/F)	
vSAN	6.7 P02		6.7 P02		6.7 P02	
VxRail	4.7.511		4.7.511		4.7.511	
BIOS	2.11.0 (7YNRC)		2.6.4 (R6HXJ)/P580N 2.6.4 (JRNfJ)		2.6.3 (P1TP2) G560/F/(XPGF1) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.00.05 (TF1M6)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.2 (RG25N) D560/F	216.0.42.4 D560/F
BCM 57414	NA	NA	21.60.22.11 (YK81Y)	216.0.42.4	21.60.22.11 (YK81Y)	216.0.42.4
Qlogic 41112/41162/41164	NA	NA	15.05.14 (GD5FW)	3.11.16.0	15.05.14 (GD5FW)	3.11.16.0
Mellanox CX4-LX	NA	NA	14.25.80.00 (5T22D)	4.17.15.16	14.25.80.00 (5T22D)	4.17.15.16
Mellanox CX5-LX	NA	NA	16.25.82.02 (89X3D)	4.17.15.16	16.25.82.02 (89X3D)	4.17.15.16
iDRAC	2.70.70.70 (DNH17)		4.10.10.10 (KTC95)		4.10.10.10 (KTC95)	
PTAgent	1.9.6		1.9.6		1.9.6	
iSM	3.5.1		3.5.1		3.5.1	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3022 (MTPW6)		NA	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	
Software Item	Version					
VxRail System	4.7.511 26539430					
Secure Remote Services	See Section 7					
Log Insight	4.8.0 13036238					
vCenter**	6.7 P02 16046713					
ESXi	6.7 EP15 16316930					
VxRail Manager	4.7.511 16388606					

ESXi	6.7 EP15 E665/F/N	
vSAN	6.7 P02	
VxRail	4.7.511	
BIOS	1.3.51 (WM6XF)	
	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*
HBA330 Adapter	16.17.00.05 (TF1M6)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM57414	21.60.22.11 (YK81Y)	216.0.42.4
Marvell FastLinQ 41232	15.05.14 (GD5FW)	3.11.16.0
Mellanox CX5-LX	NA	NA
iDRAC	4.10.10.10 (KTC95)	
PTAgent	1.9.6	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3022 (MTPW6)	
Non-Expander BP	4.35 (VV85D)	
CPLD	See tables in section 8	
IDSDM	NA	
Software Item	Version	
VxRail Software	4.7.511 26492623	
Secure Remote Services	See Section 7	
Log Insight	4.8.0 13036238	
vCenter**	6.7 P02 16046713	
ESXi	6.7 EP15 16075168	
VxRail Manager VIB	4.7.511 16222977	

* Inbox driver ** VxRail-managed VMware vCenter Server

6.18 4.7.515/6.7 P03

ESXi	6.7 P03 (4xx)		6.7 P03 (5xx)		6.7 P03 (D/G560/F)	
vSAN	6.7 P03		6.7 P03		6.7 P03	
BIOS	2.11.0 (7YNRC)		2.7.7 (M0HYG)/P580N 2.7.7 (NV1W2)		2.7.7 (4V795) G560/F/(MHV07) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*	16.17.00.05 (YXWY1)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.00.05 (TF1M6)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.2 (RG25N) D560/F	216.0.42.4 D560/F
BCM 57414	NA	NA	21.60.22.11 (YK81Y)	216.0.42.4	21.60.22.11 (YK81Y)	216.0.42.4
BCM 57416	NA	NA	NA	NA	21.60.22.11 (YK81Y) D560/F only	21.60.22.11 (YK81Y) D560/F only
Qlogic 41112/41162/41164	NA	NA	15.05.14 (GD5FW)	3.11.16.0	15.05.14 (GD5FW)	3.11.16.0
Mellanox CX4-LX	NA	NA	14.25.80.00 (5T22D)	4.17.15.16	14.25.80.00 (5T22D)	4.17.15.16
Mellanox CX5-LX	NA	NA	16.25.82.02 (89X3D)	4.17.15.16	16.25.82.02 (89X3D)	4.17.15.16
iDRAC	2.75.75.75 (KRCXX)		4.22.00.201 (2FKMX)		4.22.00.201 (2FKMX)	
PTAgent	1.9.6		1.9.6		1.9.6	
iSM	3.5.1		3.5.1		3.5.1	
PM	1.16, 2.07		1.11, 1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3022 (MTPW6)		NA	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F 4.35 (VV85D) G/D560/F	
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.515 26640584	vCenter**	6.7 P03 16708996
ESXi	6.7 P03 16713306	Secure Remote Services	See Section 7
VxRail Manager	4.7.515 16804010	Log Insight	4.8.0 13036238

* Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P03 E665/F/N	
vSAN	6.7 P03	
BIOS	1.3.51 (WM6XF)	
	FW	Driver
HBA330 Mini	16.17.00.05 (YXWY1)	17.00.02.00*
HBA330 Adapter	16.17.00.05 (TF1M6)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM57414	21.60.22.11 (YK81Y)	216.0.42.4
Marvell FastLinQ 41232	15.05.14 (GD5FW)	3.11.16.0
Mellanox CX5-LX	NA	NA
iDRAC	4.10.10.10 (KTC95)	
PTAgent	1.9.6	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3022 (MTPW6)	
Non-Expander BP	4.35 (VV85D)	
CPLD	See tables in section 8	
IDSDM	NA	
Software Item	Version	
VxRail Software	4.7.515 26640584	
Secure Remote Services	See Section 7	
Log Insight	4.8.0 13036238	
vCenter**	6.7 P03 16708996	
ESXi	6.7 P03 16713306	
VxRail Manager VIB	4.7.515 16804010	

*Inbox driver ** VxRail-managed VMware vCenter Server

6.19 4.7.520/6.7 EP16

ESXi	6.7 EP16 (4xx)		6.7 EP16 (5xx)		6.7 EP16 (D/G560/F)	
vSAN	6.7 P03		6.7 P03		6.7 P03	
BIOS	2.11.0 (7YNRC)		2.8.2 (HC85T)/P580N 2.8.2 (63X01)		2.8.2 (MTTXX) G560/F/(N7CR0) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.16 (7CM1N) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.65.33.33 (DXXX6)	216.0.72.0	21.65.33.33 (DXXX6)	216.0.72.0
Qlogic 41112/41164/41262	NA	NA	15.15.11 (F1KV5)	3.11.24.0	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX4-LX	NA	NA	14.27.61.22 (2T8FG)	4.17.70.1	14.27.61.22 (2T8FG)	4.17.70.1
Mellanox CX5-EX	NA	NA	16.27.61.20 (M6P29)	4.17.70.1	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	2.75.75.75 (KRCXX)		4.22.00.201 (2FKMX)		4.22.00.201 (2FKMX)	
PTAgent	1.9.6		1.9.6		1.9.6	
iSM	3.5.1		3.5.1		3.5.1	
AEP/PMEM Firmware	NA		01.02.00.5435 (3XN45)		NA	
PM	1.16, 2.07		1.11, 1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.520 26691291	vCenter**	6.7 U3j 16708996
ESXi	6.7 EP16 16773714	Secure Remote Services	See Section 7
VxRail Manager	4.7.520 16969877	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 EP16 (6x5)	
vSAN	6.7 P03	
BIOS	1.5.3 (VF60V)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM 5720	21.60.16 (7CM1N)	4.1.3.2-1*
BCM 57414/57416	21.65.33.33 (DXXX6)	216.0.72.0
Marvell FastLinQ 41162/41262	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX5-LX	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	4.30.30.30 (RJ6G8)	
PTAgent	1.9.6	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.46 (2F90T) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail Software	4.7.520 26691291
Secure Remote Services	See Section 7
Log Insight	8.1.1 16281169
vCenter**	6.7 U3j 16708996
ESXi	6.7 EP16 16773714
VxRail Manager	4.7.520 16969877

* Inbox driver

** VxRail-managed VMware vCenter Server

6.20 4.7.521/6.7 EP17

ESXi	6.7 EP17 (4xx)		6.7 EP17 (5xx)		6.7 EP17 (D/G560/F)	
vSAN	6.7 P03		6.7 P03		6.7 P03	
BIOS	2.11.0 (7YNRC)		2.8.2 (HC85T)/P580N 2.8.2 (63X01)		2.8.2 (MTTXX) G560/F/(N7CR0) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.16 (7CM1N) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.65.33.33 (DXXX6)	216.0.72.0	21.65.33.33 (DXXX6)	216.0.72.0
Qlogic 41112/41164/41262	NA	NA	15.15.11 (F1KV5)	3.11.24.0	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX4-LX	NA	NA	14.27.61.22 (2T8FG)	4.17.70.1	14.27.61.22 (2T8FG)	4.17.70.1
Mellanox CX5-EX	NA	NA	16.27.61.20 (M6P29)	4.17.70.1	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	2.75.75.75 (KRCXX)		4.22.00.201 (2FKMX)		4.22.00.201 (2FKMX)	
PTAgent	1.9.6		1.9.6		1.9.6	
iSM	3.5.1		3.5.1		3.5.1	
AEP/PMEM Firmware	NA		01.02.00.5435 (3XN45)		NA	
PM	1.16, 2.07		1.11, 1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F 4.35 (VV85D) G/D560/F	
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.521 26742258	vCenter**	6.7 U3j 16708996
ESXi	6.7 EP17 17098360	Secure Remote Services	See Section 7
VxRail Manager	4.7.521 17137408	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 EP17 (6x5)	
vSAN	6.7 P03	
BIOS	1.5.3 (VF60V)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM 5720	21.60.16 (7CM1N)	4.1.3.2-1*
BCM 57414/57416	21.65.33.33 (DXXX6)	216.0.72.0
Marvell FastLinQ 41162/41262	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX5-LX	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	4.30.30.30 (RJ6G8)	
PTAgent	1.9.6	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.46 (2F90T) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail System	4.7.521 26742258
Secure Remote Services	See Section 7
Log Insight	8.1.1 16281169
vCenter**	6.7 U3j 16708996
ESXi	6.7 EP17 17098360
VxRail Manager	4.7.521 17137408

* Inbox driver

** VxRail-managed VMware vCenter Server

6.21 4.7.525/6.7 P04

ESXi	6.7 P04 (4xx)		6.7 P04 (5xx)		6.7 P04 (D/G560/F)	
vSAN	6.7 P04		6.7 P04		6.7 P04	
BIOS	2.11.0 (7YNRC)		2.8.2 (HC85T)/P580N 2.8.2 (63X01)		2.8.2 (MTTXX) G560/F/(N7CR0) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.16 (7CM1N) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.65.33.33 (DXXX6)	216.0.72.0	21.65.33.33 (DXXX6)	216.0.72.0
Qlogic 41112/41164/41262	NA	NA	15.15.11 (F1KV5)	3.11.24.0	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX4-LX	NA	NA	14.27.61.22 (2T8FG)	4.17.70.1	14.27.61.22 (2T8FG)	4.17.70.1
Mellanox CX5-EX	NA	NA	16.27.61.20 (M6P29)	4.17.70.1	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	2.75.75.75 (KRCXX)		4.22.00.201 (2FKMX)		4.22.00.201 (2FKMX)	
PTAgent	1.9.6		1.9.6		1.9.6	
iSM	3.5.1		3.5.1		3.5.1	
AEP/PMEM Firmware	NA		01.02.00.5435 (3XN45)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F 4.35 (VV85D) G/D560/F	
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.525 26769857	vCenter**	6.7 U3I 17138064
ESXi	6.7 P04 17167734	Secure Remote Services	See Section 7
VxRail Manager	4.7.525 17225047	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P04 (6x5)	
vSAN	6.7 P04	
BIOS	1.5.3 (VF60V)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM 5720	21.60.16 (7CM1N)	4.1.3.2-1*
BCM 57414/57416	21.65.33.33 (DXXX6)	216.0.72.0
Marvell FastLinQ 41162/41262	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX5-LX	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	4.30.30.30 (RJ6G8)	
PTAgent	1.9.6	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.46 (2F90T) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail System	4.7.525 26769857
Secure Remote Services	See Section 7
Log Insight	8.1.1 16281169
vCenter**	6.7 U3I 17138064
ESXi	6.7 P04 17167734
VxRail Manager	4.7.525 17225047

* Inbox driver

** VxRail-managed VMware vCenter Server

6.22 4.7.526/6.7 P04

ESXi	6.7 P04 (4xx)		6.7 P04 (5xx)		6.7 P04 (D/G560/F)	
vSAN	6.7 P04		6.7 P04		6.7 P04	
BIOS	2.11.0 (7YNRC)		2.8.2 (HC85T)/P580N 2.8.2 (63X01)		2.8.2 (MTTXX) G560/F/(N7CR0) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.16 (7CM1N) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.65.33.33 (DXXX6)	216.0.72.0	21.65.33.33 (DXXX6)	216.0.72.0
Qlogic 41112/41164/41262	NA	NA	15.15.11 (F1KV5)	3.11.24.0	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX4-LX	NA	NA	14.27.61.22 (2T8FG)	4.17.70.1	14.27.61.22 (2T8FG)	4.17.70.1
Mellanox CX5-EX	NA	NA	16.27.61.20 (M6P29)	4.17.70.1	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	2.75.75.75 (KRCXX)		4.22.00.201 (2FKMX)		4.22.00.201 (2FKMX)	
PTAgent	1.9.6		1.9.6		1.9.6	
iSM	3.5.1		3.5.1		3.5.1	
AEP/PMEM Firmware	NA		01.02.00.5435 (3XN45)		NA	
PM	1.16, 2.07		1.11, 1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.526 26792886	vCenter**	6.7 U3I 17138064
ESXi	6.7 P04 17167734	Secure Remote Services	See Section 7
VxRail Manager	4.7.526 17298699	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P04 (6x5)	
vSAN	6.7 P04	
BIOS	1.5.3 (VF60V)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM 5720	21.60.16 (7CM1N)	4.1.3.2-1*
BCM 57414/57416	21.65.33.33 (DXXX6)	216.0.72.0
Marvell FastLinQ 41162/41262	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX5-LX	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	4.30.30.30 (RJ6G8)	
PTAgent	1.9.6	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.46 (2F90T) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail System	4.7.526 26792886
Secure Remote Services	See Section 7
Log Insight	8.1.1 16281169
vCenter**	6.7 U3I 17138064
ESXi	6.7 P04 17167734
VxRail Manager	4.7.526 17298699

* Inbox driver

** VxRail-managed VMware vCenter Server

6.23 4.7.527/6.7 EP18

ESXi	6.7 EP18 (4xx)		6.7 EP18 (5xx)		6.7 EP18 (D/G560/F)	
vSAN	6.7 EP18		6.7 EP18		6.7 EP18	
BIOS	2.12.1 (9FG85)		2.9.4 (CR1K4)/P580N 2.9.4 (GJ9R4)		2.9.3 (YP88M) G560/F/(FDXG8) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.16 (7CM1N) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.65.33.33 (DXXX6)	216.0.72.0	21.65.33.33 (DXXX6)	216.0.72.0
Qlogic 41112/41164/41262	NA	NA	15.15.11 (F1KV5)	3.11.24.0	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX4-LX	NA	NA	14.27.61.22 (2T8FG)	4.17.70.1	14.27.61.22 (2T8FG)	4.17.70.1
Mellanox CX5-EX	NA	NA	16.27.61.20 (M6P29)	4.17.70.1	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	2.75.75.75 (KRCXX)		4.22.00.201 (2FKMX)		4.22.00.201 (2FKMX)	
PTAgent	1.9.6		1.9.6		1.9.6	
iSM	3.5.1		3.5.1		3.5.1	
AEP/PMEM Firmware	NA		01.02.00.5435 (3XN45)		NA	
PM	1.16, 2.07		1.11, 1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.46(2F90T) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F 4.35 (VV85D) G/D560/F	
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.527 26902834	vCenter**	6.7 U3I 17138064
ESXi	6.7 EP18 17499825	Secure Remote Services	See Section 7
VxRail Manager	4.7.527 17663315	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 EP18 (6x5)	
vSAN	6.7 EP18	
BIOS	1.5.3 (VF60V)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM 5720	21.60.16 (7CM1N)	4.1.3.2-1*
BCM 57414/57416	21.65.33.33 (DXXX6)	216.0.72.0
Marvell FastLinQ 41162/41262	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX5-LX	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	4.30.30.30 (RJ6G8)	
PTAgent	1.9.6	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.46 (2F90T) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	
Software Item	Version	
VxRail System	4.7.527 26902834	
Secure Remote Services	See Section 7	
Log Insight	8.1.1 16281169	
vCenter**	6.7 U3I 17138064	
ESXi	6.7 EP18 17499825	
VxRail Manager	4.7.527 17663315	

* Inbox driver

** VxRail-managed VMware vCenter Server

6.24 4.7.530/6.7 P05

ESXi	6.7 P05 (4xx)		6.7 P05 (5xx)		6.7 P05 (D/G560/F)	
vSAN	6.7 P05		6.7 P05		6.7 P05	
BIOS	2.12.1 (9FG85)		2.10.2 (N63PX)/P580N 2.10.2 (0Y4F3)		2.10.2 (4HH04) G560/F/(Y9GX7) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.16 (7CM1N) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.65.33.33 (DXXX6)	216.0.72.0	21.65.33.33 (DXXX6)	216.0.72.0
Qlogic 41112/41164/41262/41162	NA	NA	15.15.11 (F1KV5)	3.11.24.0	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX4-LX	NA	NA	14.27.61.22 (2T8FG)	4.17.70.1	14.27.61.22 (2T8FG)	4.17.70.1
Mellanox CX5-EX	NA	NA	16.27.61.20 (M6P29)	4.17.70.1	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	2.75.100.75 (DPV0R)		4.40.10.00 (MGD5F)		4.40.10.00 (MGD5F)	
PTAgent	2.3		2.3		2.3	
iSM	3.5.1		3.5.1		3.5.1	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.530 26975664	vCenter**	6.7 U3m 17713310
ESXi	6.7 P05 17700523	Secure Remote Services	See Section 7
VxRail Manager	4.7.530 17898131	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P05 (6x5)	
vSAN	6.7 P05	
BIOS	2.1.6 (F0XV2)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM 5720	21.60.16 (7CM1N)	4.1.3.2-1*
BCM 57412/57414/57416	21.65.33.33 (DXXX6)	216.0.72.0
Marvell FastLinQ 41262/41232/41132	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX5-LX	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	4.40.10.00 (MGD5F)	
PTAgent	2.3	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	
Software Item	Version	
VxRail System	4.7.530 26975664	
Secure Remote Services	See Section 7	
Log Insight	8.1.1 16281169	
vCenter**	6.7 U3m 17713310	
ESXi	6.7 P05 17700523	
VxRail Manager	4.7.530 17898131	

* Inbox driver

** VxRail-managed VMware vCenter Server

6.25 4.7.531/6.7 P05

ESXi	6.7 P05 (4xx)		6.7 P05 (5xx)		6.7 P05 (D/G560/F)	
vSAN	6.7 P05		6.7 P05		6.7 P05	
BIOS	2.12.1 (9FG85)		2.10.2 (N63PX)/P580N 2.10.2 (0Y4F3)		2.10.2 (4HH04) G560/F/(Y9GX7) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5	19.5.12 (YP4R0)	1.9.5
BCM 5720	NA	NA	NA	NA	21.60.16 (7CM1N) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.65.33.33 (DXXX6)	216.0.72.0	21.65.33.33 (DXXX6)	216.0.72.0
Qlogic 41112/41164/41262/41162	NA	NA	15.15.11 (F1KV5)	3.11.24.0	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX4-LX	NA	NA	14.27.61.22 (2T8FG)	4.17.70.1	14.27.61.22 (2T8FG)	4.17.70.1
Mellanox CX5-EX	NA	NA	16.27.61.20 (M6P29)	4.17.70.1	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	2.75.100.75 (DPV0R)		4.40.10.00 (MGD5F)		4.40.10.00 (MGD5F)	
PTAgent	2.3		2.3		2.3	
iSM	3.5.1		3.5.1		3.5.1	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F 4.35 (VV85D) G/D560/F	
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.531 27039073	vCenter**	6.7 U3n 18010531
ESXi	6.7 P05 17700523	Secure Remote Services	See Section 7
VxRail Manager	4.7.531 18078840	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P05 (6x5)	
vSAN	6.7 P05	
BIOS	2.1.6 (F0XV2)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	19.5.12 (YP4R0)	1.9.5
BCM 5720	21.60.16 (7CM1N)	4.1.3.2-1*
BCM 57412/57414/57416	21.65.33.33 (DXXX6)	216.0.72.0
Marvell FastLinQ 41262/41232/41132	15.15.11 (F1KV5)	3.11.24.0
Mellanox CX5-LX	16.27.61.20 (M6P29)	4.17.70.1
iDRAC	4.40.10.00 (MGD5F)	
PTAgent	2.3	
iSM	3.5.1	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail System	4.7.531 27039073
Secure Remote Services	See Section 7
Log Insight	8.1.1 16281169
vCenter**	6.7 U3n 18010531
ESXi	6.7 P05 17700523
VxRail Manager	4.7.531 18078840

* Inbox driver

** VxRail-managed VMware vCenter Server

6.26 4.7.532/6.7 P05

ESXi	6.7 P05 (4xx)		6.7 P05 (5xx)		6.7 P05 (D/G560/F)	
vSAN	6.7 P05		6.7 P05		6.7 P05	
BIOS	2.12.1 (9FG85)		2.11.2 (92RFG), P580N (TTY54)		2.11.2 (8MRPC) G560/F, (XFN8X) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	20.0.16 (23WP1)	1.5.2	NA	NA	20.0.16 (23WP1)	1.5.2
Intel X520	20.0.16 (23WP1)	1.8.7	NA	NA	NA	NA
Intel X540	20.0.16 (23WP1)	1.8.7	NA	NA	NA	NA
Intel X550	20.0.16 (23WP1)	1.8.7	20.0.16 (23WP1)	1.8.7	20.0.16 (23WP1)	1.8.7
Intel X710	20.0.17 (DK4G2)	1.10.9	20.0.17 (DK4G2)	1.10.9	20.0.17 (DK4G2)	1.10.9
BCM 5720	NA	NA	NA	NA	21.80.9 (M18WH) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.80.16.95 (YR5N5)	218.0.38.0	21.80.16.95 (YR5N5)	218.0.38.0
Qlogic 41112/41164/41262/41162	NA	NA	15.20.16 (TD0M9)	3.11.34.0	15.20.16 (TD0M9)	3.11.34.0
Mellanox CX4-LX	NA	NA	14.28.45.12 (5PKTN)	4.17.71.1	14.28.45.12 (5PKTN)	4.17.71.1
Mellanox CX5-EX	NA	NA	16.28.45.12 (M6FF3)	4.17.71.1	16.28.45.12 (M6FF3)	4.17.71.1
iDRAC	2.75.100.75 (DPV0R)		4.40.40.00 (1R1Y2)		4.40.40.00 (1R1Y2)	
PTAgent	2.3		2.3		2.3	
iSM	4.0.1 (TW52R)		4.0.1 (TW52R)		4.0.1 (TW52R)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.532 27113881	vCenter**	6.7 U3n 18010531
ESXi	6.7 P05 17700523	Secure Remote Services	See Section 7
VxRail Manager	4.7.532 18319249	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P05 (6x5)	
vSAN	6.7 P05	
BIOS	2.2.4 (MDYKT)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.0.17 (DK4G2)	1.10.9
BCM 5720	21.80.9 (M18WH)	4.1.3.2-1*
BCM 57412/57414/57416	21.80.16.95 (YR5N5)	218.0.38.0
Marvell FastLinQ 41262/41232/41132	15.20.16 (TD0M9)	3.11.34.0
Mellanox CX5-LX	16.28.45.12 (M6FF3)	4.17.71.1
iDRAC	4.40.40.00 (1R1Y2)	
PTAgent	2.3	
iSM	4.0.1 (TW52R)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail System	4.7.532 27113881
Secure Remote Services	See Section 7
Log Insight	8.1.1 16281169
vCenter**	6.7 U3n 18010531
ESXi	6.7 P05 17700523
VxRail Manager	4.7.532 18319249

* Inbox driver

** VxRail-managed VMware vCenter Server

6.27 4.7.533/6.7 P05

ESXi	6.7 P05 (4xx)		6.7 P05 (5xx)		6.7 P05 (D/G560/F)	
vSAN	6.7 P05		6.7 P05		6.7 P05	
BIOS	2.12.1 (9FG85)		2.11.2 (92RFG), P580N (TTY54)		2.11.2 (8MRPC) G560/F, (XFN8X) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	20.0.16 (23WP1)	1.5.2	NA	NA	20.0.16 (23WP1)	1.5.2
Intel X520	20.0.16 (23WP1)	1.8.7	NA	NA	NA	NA
Intel X540	20.0.16 (23WP1)	1.8.7	NA	NA	NA	NA
Intel X550	20.0.16 (23WP1)	1.8.7	20.0.16 (23WP1)	1.8.7	20.0.16 (23WP1)	1.8.7
Intel X710	20.0.17 (DK4G2)	1.10.9	20.0.17 (DK4G2)	1.10.9	20.0.17 (DK4G2)	1.10.9
BCM 5720	NA	NA	NA	NA	21.80.9 (M18WH) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.80.16.95 (YR5N5)	218.0.38.0	21.80.16.95 (YR5N5)	218.0.38.0
Qlogic 41112/41164/41262/41162	NA	NA	15.20.16 (TD0M9)	3.11.34.0	15.20.16 (TD0M9)	3.11.34.0
Mellanox CX4-LX	NA	NA	14.28.45.12 (5PKTN)	4.17.71.1	14.28.45.12 (5PKTN)	4.17.71.1
Mellanox CX5-EX	NA	NA	16.28.45.12 (M6FF3)	4.17.71.1	16.28.45.12 (M6FF3)	4.17.71.1
iDRAC	2.75.100.75 (DPV0R)		4.40.40.00 (1R1Y2)		4.40.40.00 (1R1Y2)	
PTAgent	2.5.2.7		2.5.2.7		2.5.2.7	
iSM	4.0.1 (TW52R)		4.0.1 (TW52R)		4.0.1 (TW52R)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.533 27147804	vCenter**	6.7 U3n 18010531
ESXi	6.7 P05 17700523	Secure Remote Services	See Section 7
VxRail Manager	4.7.533 18472215	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P05 (6x5)	
vSAN	6.7 P05	
BIOS	2.2.4 (MDYKT)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.0.17 (DK4G2)	1.10.9
BCM 5720	21.80.9 (M18WH)	4.1.3.2-1*
BCM 57412/57414/57416	21.80.16.95 (YR5N5)	218.0.38.0
Marvell FastLinQ 41262/41232/41132	15.20.16 (TD0M9)	3.11.34.0
Mellanox CX5-LX	16.28.45.12 (M6FF3)	4.17.71.1
iDRAC	4.40.40.00 (1R1Y2)	
PTAgent	2.5.2.7	
iSM	4.0.1 (TW52R)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	
Software Item	Version	
VxRail System	4.7.533 27147804	
Secure Remote Services	See Section 7	
Log Insight	8.1.1 16281169	
vCenter**	6.7 U3n 18010531	
ESXi	6.7 P05 17700523	
VxRail Manager	4.7.533 18472215	

* Inbox driver

** VxRail-managed VMware vCenter Server

6.28 4.7.535/6.7 P05

ESXi	6.7 P05 (4xx)		6.7 P05 (5xx)		6.7 P05 (D/G560/F)	
vSAN	6.7 P05		6.7 P05		6.7 P05	
BIOS	2.12.1 (9FG85)		2.11.2 (92RFG), P580N (TTY54)		2.11.2 (8MRPC) G560/F, (XFN8X) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	20.0.17 (DK4G2)	1.10.9	20.0.17 (DK4G2)	1.10.9	20.0.17 (DK4G2)	1.10.9
BCM 5720	NA	NA	NA	NA	21.80.9 (M18WH) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.80.16.95 (YR5N5)	218.0.38.0	21.80.16.95 (YR5N5)	218.0.38.0
Qlogic 41112/41164/41262/41162	NA	NA	15.20.16 (TD0M9)	3.11.34.0	15.20.16 (TD0M9)	3.11.34.0
Mellanox CX4-LX	NA	NA	14.28.45.12 (5PKTN)	4.17.71.1	14.28.45.12 (5PKTN)	4.17.71.1
Mellanox CX5-EX	NA	NA	16.28.45.12 (M6FF3)	4.17.71.1	16.28.45.12 (M6FF3)	4.17.71.1
iDRAC	2.75.100.75 (DPV0R)		4.40.40.00 (1R1Y2)		4.40.40.00 (1R1Y2)	
PTAgent	2.5.2.7		2.5.2.7		2.5.2.7	
iSM	4.0.1 (TW52R)		4.0.1 (TW52R)		4.0.1 (TW52R)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.535 27177583	vCenter**	6.7 U3n 18010531
ESXi	6.7 P05 17700523	Secure Remote Services	See Section 7
VxRail Manager	4.7.535 18573182	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P05 (6x5)	
vSAN	6.7 P05	
BIOS	2.2.4 (MDYKT)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.0.17 (DK4G2)	1.10.9
BCM 5720	21.80.9 (M18WH)	4.1.3.2-1*
BCM 57412/57414/57416	21.80.16.95 (YR5N5)	218.0.38.0
Marvell FastLinQ 41262/41232/41132	15.20.16 (TD0M9)	3.11.34.0
Mellanox CX5-LX	16.28.45.12 (M6FF3)	4.17.71.1
iDRAC	4.40.40.00 (1R1Y2)	
PTAgent	2.5.2.7	
iSM	4.0.1 (TW52R)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	
Software Item	Version	
VxRail System	4.7.535 27177583	
Secure Remote Services	See Section 7	
Log Insight	8.1.1 16281169	
vCenter**	6.7 U3n 18010531	
ESXi	6.7 P05 17700523	
VxRail Manager	4.7.535 18573182	

* Inbox driver

** VxRail-managed VMware vCenter Server

6.29 4.7.536/6.7 P05

ESXi	6.7 P05 (4xx)		6.7 P05 (5xx)		6.7 P05 (D/G560/F)	
vSAN	6.7 P05		6.7 P05		6.7 P05	
BIOS	2.12.1 (9FG85)		2.11.2 (92RFG), P580N (TTY54)		2.11.2 (8MRPC) G560/F, (XFN8X) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	19.5.12 (40NTK)	1.4.10	NA	NA	19.5.12 (40NTK)	1.4.10
Intel X520	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X540	19.5.12 (40NTK)	1.7.20	NA	NA	NA	NA
Intel X550	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20	19.5.12 (40NTK)	1.7.20
Intel X710	20.0.17 (DK4G2)	1.10.9	20.0.17 (DK4G2)	1.10.9	20.0.17 (DK4G2)	1.10.9
BCM 5720	NA	NA	NA	NA	21.80.9 (M18WH) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.80.16.95 (YR5N5)	218.0.38.0	21.80.16.95 (YR5N5)	218.0.38.0
Qlogic 41112/41164/41262/41162	NA	NA	15.20.16 (TD0M9)	3.11.34.0	15.20.16 (TD0M9)	3.11.34.0
Mellanox CX4-LX	NA	NA	14.28.45.12 (5PKTN)	4.17.71.1	14.28.45.12 (5PKTN)	4.17.71.1
Mellanox CX5-EX	NA	NA	16.28.45.12 (M6FF3)	4.17.71.1	16.28.45.12 (M6FF3)	4.17.71.1
iDRAC	2.75.100.75 (DPV0R)		4.40.40.00 (1R1Y2)		4.40.40.00 (1R1Y2)	
PTAgent	2.5.2.7		2.5.2.7		2.5.2.7	
iSM	4.0.1 (TW52R)		4.0.1 (TW52R)		4.0.1 (TW52R)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.23 (8J57Y) 4.27 (WVG4W) G560/F	4.35 (VV85D) G/D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.9 (3N5TF) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.536 27196817	vCenter**	6.7 U3o 18485166
ESXi	6.7 P05 17700523	Secure Remote Services	See Section 7
VxRail Manager	4.7.536 18638759	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P05 (6x5)	
vSAN	6.7 P05	
BIOS	2.2.4 (MDYKT)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.0.17 (DK4G2)	1.10.9
BCM 5720	21.80.9 (M18WH)	4.1.3.2-1*
BCM 57412/57414/57416	21.80.16.95 (YR5N5)	218.0.38.0
Marvell FastLinQ 41262/41232/41132	15.20.16 (TD0M9)	3.11.34.0
Mellanox CX5-LX	16.28.45.12 (M6FF3)	4.17.71.1
iDRAC	4.40.40.00 (1R1Y2)	
PTAgent	2.5.2.7	
iSM	4.0.1 (TW52R)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail System	4.7.536 27196817
Secure Remote Services	See Section 7
Log Insight	8.1.1 16281169
vCenter**	6.7 U3o 18485166
ESXi	6.7 P05 17700523
VxRail Manager	4.7.536 18638759

* Inbox driver

** VxRail-managed VMware vCenter Server

6.30 4.7.540/6.7 P06

ESXi	6.7 P06 (4xx)		6.7 P06 (5xx)		6.7 P06 (D/G560/F)	
vSAN	6.7 P06		6.7 P06		6.7 P06	
BIOS	2.13.0 (74DF9)		2.12.2 (4CRD2), P580N (PHGVK)		2.12.2 (RHYDH) G560/F, (FG1CT) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	20.5.13 (HR5TP)	1.5.2.0	NA	NA	20.5.13 (HR5TP)	1.5.2.0
Intel X520	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X540	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X550	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0
Intel X710	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0
BCM 5720	NA	NA	NA	NA	21.81.3 (4JVHJ) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.85.21.91 (YPXWJ)	218.0.62.0	21.85.21.91 (YPXWJ)	218.0.62.0
Qlogic 41112/41164/41262/41162	NA	NA	15.25.11 (0NYVV)	3.11.41.0	15.25.11 (0NYVV)	3.11.41.0
Mellanox CX4-LX	NA	NA	14.31.10.14 (900N0)	4.17.71.1	14.31.10.14 (900N0)	4.17.71.1
Mellanox CX5-EX	NA	NA	16.31.10.14 (9PNF6)	4.17.71.1	16.31.10.14 (9PNF6)	4.17.71.1
iDRAC	2.81.81.81 (5HN4R)		5.00.10.20 (YCFHY)		5.00.10.20 (YCFHY)	
PTAgent	2.5.2.7		2.5.2.7		2.5.2.7	
iSM	4.1.0 (C8YW2)		4.1.0 (C8YW2)		4.1.0 (C8YW2)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.36 (R31PT) G560/F	4.35 (VV85D) D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.13 (2NPVN) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.540 27298275	vCenter**	6.7 U3p 18831133
ESXi	6.7 P06 18828794	Secure Remote Services	See Section 7
VxRail Manager	4.7.540 18976399	Log Insight	8.1.1 16281169

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P06 (6x5)	
vSAN	6.7 P06	
BIOS	2.3.6 (F583V)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.5.13 (M20T0)	1.14.2.0
BCM 5720	21.81.3 (4JVHJ)	4.1.3.2-1*
BCM 57412/57414/57416	21.85.21.91 (YPXWJ)	218.0.62.0
Marvell FastLinQ 41262/41232/41132	15.25.11 (0NYVV)	3.11.41.0
Mellanox CX5-LX	16.31.10.14 (9PNF6)	4.17.71.1
iDRAC	5.00.10.20 (YCFHY)	
PTAgent	2.5.2.7	
iSM	4.1.0 (C8YW2)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	
Software Item	Version	
VxRail System	4.7.540 27298275	
Secure Remote Services	See Section 7	
Log Insight	8.1.1 16281169	
vCenter**	6.7 U3p 18831133	
ESXi	6.7 P06 18828794	
VxRail Manager	4.7.540 18976399	

* Inbox driver

** VxRail-managed VMware vCenter Server

6.31 4.7.541/6.7 EP23

ESXi	6.7 EP23 (4xx)		6.7 EP23 (5xx)		6.7 EP23 (D/G560/F)	
vSAN	6.7 EP23		6.7 EP23		6.7 EP23	
BIOS	2.13.0 (74DF9)		2.12.2 (4CRD2), P580N (PHGVK)		2.12.2 (RHYDH) G560/F, (FG1CT) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	20.5.13 (HR5TP)	1.5.2.0	NA	NA	20.5.13 (HR5TP)	1.5.2.0
Intel X520	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X540	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X550	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0
Intel X710	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0
BCM 5720	NA	NA	NA	NA	21.81.3 (4JVHJ) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.85.21.91 (YPXWJ)	218.0.62.0	21.85.21.91 (YPXWJ)	218.0.62.0
Qlogic 41112/41164/41262/41162	NA	NA	15.25.11 (0NYVV)	3.11.41.0	15.25.11 (0NYVV)	3.11.41.0
Mellanox CX4-LX	NA	NA	14.31.10.14 (900N0)	4.17.71.1	14.31.10.14 (900N0)	4.17.71.1
Mellanox CX5-EX	NA	NA	16.31.10.14 (9PNF6)	4.17.71.1	16.31.10.14 (9PNF6)	4.17.71.1
iDRAC	2.81.81.81 (5HN4R)		5.00.10.20 (YCFHY)		5.00.10.20 (YCFHY)	
PTAgent	2.5.2.7		2.5.2.7		2.5.2.7	
iSM	4.1.0 (C8YW2)		4.1.0 (C8YW2)		4.1.0 (C8YW2)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11, 1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.36 (R31PT) G560/F	4.35 (VV85D) D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.13 (2NPVN) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.541 27403414	vCenter**	6.7 U3q 19300125
ESXi	6.7 EP23 19195723	Secure Remote Services	See Section 7
VxRail Manager	4.7.541 19231819	Log Insight	8.6.2 19092412

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 EP23 (6x5)	
vSAN	6.7 EP23	
BIOS	2.3.6 (F583V)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.5.13 (M20T0)	1.14.2.0
BCM 5720	21.81.3 (4JVHJ)	4.1.3.2-1*
BCM 57412/57414/57416	21.85.21.91 (YPXWJ)	218.0.62.0
Marvell FastLinQ 41262/41232/41132	15.25.11 (0NYVV)	3.11.41.0
Mellanox CX5-LX	16.31.10.14 (9PNF6)	4.17.71.1
iDRAC	5.00.10.20 (YCFHY)	
PTAgent	2.5.2.7	
iSM	4.1.0 (C8YW2)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail System	4.7.541 27403414
Secure Remote Services	See Section 7
Log Insight	8.6.2 19092412
vCenter**	6.7 U3q 19300125
ESXi	6.7 EP23 19195723
VxRail Manager	4.7.541 19231819

* Inbox driver

** VxRail-managed VMware vCenter Server

6.32 4.7.542/6.7 EP23

ESXi	6.7 EP23 (4xx)		6.7 EP23 (5xx)		6.7 EP23 (D/G560/F)	
vSAN	6.7 EP23		6.7 EP23		6.7 EP23	
BIOS	2.13.0 (74DF9)		2.12.2 (4CRD2), P580N (PHGVK)		2.12.2 (RHYDH) G560/F, (FG1CT) D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	20.5.13 (HR5TP)	1.5.2.0	NA	NA	20.5.13 (HR5TP)	1.5.2.0
Intel X520	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X540	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X550	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0
Intel X710	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0
BCM 5720	NA	NA	NA	NA	21.81.3 (4JVHJ) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	21.85.21.91 (YPXWJ)	218.0.62.0	21.85.21.91 (YPXWJ)	218.0.62.0
Qlogic 41112/41164/41262/41162	NA	NA	15.35.06 (7J55N)	3.11.56.0	15.35.06 (7J55N)	3.11.56.0
Mellanox CX4-LX	NA	NA	14.31.10.14 (900N0)	4.17.71.1	14.31.10.14 (900N0)	4.17.71.1
Mellanox CX5-EX	NA	NA	16.31.10.14 (9PNF6)	4.17.71.1	16.31.10.14 (9PNF6)	4.17.71.1
iDRAC	2.81.81.81 (5HN4R)		5.10.10.00 (13JJ5)		5.10.10.00 (13JJ5)	
PTAgent	2.5.2.7		2.5.2.7		2.5.2.7	
iSM	4.1.0 (C8YW2)		4.1.0 (C8YW2)		4.1.0 (C8YW2)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11,1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.36 (R31PT) G560/F	4.35 (VV85D) D560/F
CPLD	NA		See tables in section 8		See tables in section 8	
Chassis Mgmt Brd	NA		NA		See table in section 8.2	
IDSDM	NA		1.13 (2NPVN) (See table in section 8.3)		NA	

Software Item	Version	Software Item	Version
VxRail System	4.7.542 27498806	vCenter**	6.7 U3q 19300125
ESXi	6.7 EP23 19195723	Secure Remote Services	See Section 7
VxRail Manager	4.7.542 19648121	Log Insight	8.6.2 19092412

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 EP23 (6x5)	
vSAN	6.7 EP23	
BIOS	2.3.6 (CFT0)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.5.13 (M20T0)	1.14.2.0
BCM 5720	21.81.3 (4JVHJ)	4.1.3.2-1*
BCM 57412/57414/57416	21.85.21.91 (YPXWJ)	218.0.62.0
Marvell FastLinQ 41262/41232/41132	15.25.11 (0NYVV)	3.11.41.0
Mellanox CX5-LX	16.31.10.14 (9PNF6)	4.17.71.1
iDRAC	5.10.10.00 (FPTF1)	
PTAgent	2.5.2.7	
iSM	4.1.0 (C8YW2)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	
Non-Expander BP	4.35 (VV85D) E665/F/N, P675N	
CPLD	See tables in section 8	
IDSDM	NA	

Software Item	Version
VxRail System	4.7.542 27498806
Secure Remote Services	See Section 7
Log Insight	8.6.2 19092412
vCenter**	6.7 U3q 19300125
ESXi	6.7 EP23 19195723
VxRail Manager	4.7.542 19648121

* Inbox driver

** VxRail-managed VMware vCenter Server

6.33 4.7.550/6.7 P07

ESXi	6.7 P07 (4xx)		6.7 P07 (5xx)		6.7 P07 (D/G560/F)	
vSAN	6.7 P07		6.7 P07		6.7 P07	
BIOS	2.13.0 (74DF9)		2.13.3 (KHHWP), P580N (4417G)		2.13.3 (KHHWP), (W3HTK)D560/F	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	20.5.13 (HR5TP)	1.5.2.0	NA	NA	20.5.13 (HR5TP)	1.5.2.0
Intel X520	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X540	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X550	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0
Intel X710	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0
Intel E810	NA	NA	20.5.13 (NVXX9)	1.6.2.0	20.5.13 (NVXX9)	1.6.2.0
BCM 5720	NA	NA	NA	NA	22.00.60 (DFF48) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	22.00.07.60 (NPNT5)	220.0.2.0	22.00.07.60 (NPNT5)	220.0.2.0
BCM57508/57504			22.00.07.60 (NPNT5)	220.0.2.0	NA	NA
Qlogic 41112/41164/41262/41162/41132/41232	NA	NA	15.35.06 (7J55N)	3.11.56.0	15.35.06 (7J55N)	3.11.56.0
Qlogic QLE2692 fc/QLE2772 FC			15.35.08 (KV0M6)	3.1.87.0	15.35.08 (KV0M6)	3.1.87.0
EmulexLPE31002/35002FC			03.05.20 (2C1YY)	12.8.351.29	03.05.20 (2C1YY)	12.8.351.29
Mellanox CX4-LX	NA	NA	14.32.20.04 (PY7FC)	4.17.71.1	14.32.20.04 (PY7FC)	4.17.71.1
Mellanox CX5-EX/EN	NA	NA	16.32.20.04 (OCXFK)	4.17.71.1	16.32.20.04 (OCXFK)	4.17.71.1
Mellanox CX6-DX			22.32.20.04 (DNT3H)	4.17.71.1	22.32.20.04 (DNT3H)	4.17.71.1
Mellanox CX6-LX			26.32.20.04 (J2NKX)	4.17.71.1	26.32.20.04 (J2NKX)	4.17.71.1
iDRAC	2.83.83.83 (DDK5R)		5.10.10.00 (FPTF1)		5.10.10.00 (FPTF1)	
PTAgent	2.5.2.7		2.5.2.7		2.5.2.7	
iSM	4.1.0 (C8YW2)		4.1.0 (C8YW2)		4.1.0 (C8YW2)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11, 1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.36 (R31PT) G560/F	4.35 (VV85D) D560/F
CPLD	NA		See tables in section 8		See tables in section 8	

Chassis Mgmt Brd	NA	NA	See table in section 8.2
IDSDM	NA	1.13 (2NPVN) (See table in section 8.3)	NA

Software Item	Version	Software Item	Version
VxRail System	4.7.550 27585607	vCenter**	6.7 U3r 19832974
ESXi	6.7 P07 19898906	Secure Remote Services	See Section 7
VxRail Manager	4.7.550 19949702	Log Insight	8.6.2 19092412

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P07 (6x5)	
vSAN	6.7 P07	
BIOS	2.6.6 (C4FT0)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.5.13 (M20T0)	1.14.2.0
Intel E810	20.5.13 (NVXX9)	1.6.2.0
Qlogic QLE2692 fc/QLE2772 FC	15.35.08 (KV0M6)	3.1.87.0
Qlogic 41112/41164/41262/41162/41132/41232	15.35.06 (7J55N)	3.11.56.0
EmulexLPE31002/35002FC	03.05.20 (2C1YY)	12.8.351.29
BCM 5720	22.00.60 (DFF48)	4.1.3.2-1*
BCM 57412/57414/57416/57504	22.00.07.60 (NPNT5)	220.0.2.0
Marvell FastLinQ 41262/41232/41132	15.25.11 (0NYVV)	3.11.41.0
Mellanox CX5-EN/EX	16.32.20.04 (0CXFK)	4.17.71.1
Mellanox CX6-DX	22.32.20.04 (DNT3H)	4.17.71.1
Mellanox CX6-LX	26.32.20.04 (J2NKX)	4.17.71.1
iDRAC	5.10.10.00 (FPTF1)	
PTAgent	2.5.2.7	
iSM	4.1.0 (C8YW2)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	

Non-Expander BP	4.35 (VV85D) E665/F/N, P675N
CPLD	See tables in section 8
IDSDM	NA

Software Item	Version
VxRail System	4.7.550 27585607
Secure Remote Services	See Section 7
Log Insight	8.6.2 19092412
vCenter**	6.7 U3r 19832974
ESXi	6.7 P07 19898906
VxRail Manager	4.7.550 19949702

* Inbox driver

** VxRail-managed VMware vCenter Server

6.34 4.7.560/6.7 P08

ESXi	6.7 P08 (4xx)		6.7 P08 (5xx)		6.7 P08 (D/G560/F)	
vSAN	6.7 P08		6.7 P08		6.7 P08	
BIOS	2.15.0 (02CYD)		2.13.3 (76NC0)		2.13.3 (76NC0)	
	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*	16.17.01.00 (124X2)	17.00.02.00*
HBA330 Adapter	NA	NA	16.17.01.00 (NKNVC)	17.00.02.00*	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	20.5.13 (HR5TP)	1.5.2.0	NA	NA	20.5.13 (HR5TP)	1.5.2.0
Intel X520	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X540	20.5.13 (HR5TP)	1.10.3.0	NA	NA	NA	NA
Intel X550	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0	20.5.13 (HR5TP)	1.10.3.0
Intel X710	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0	20.5.13 (M20T0)	1.14.2.0
Intel E810	NA	NA	20.5.13 (NVXX9)	1.6.2.0	20.5.13 (NVXX9)	1.6.2.0
BCM 5720	NA	NA	NA	NA	22.00.60 (DFF48) D560/F	4.1.3.2-1* D560/F
BCM 57412/57414/57416	NA	NA	22.00.07.60 (NPNT5)	220.0.2.0	22.00.07.60 (NPNT5)	220.0.2.0
BCM57508/57504			22.00.07.60 (NPNT5)	220.0.2.0	NA	NA
Qlogic 41112/41164/41262/41162/41132/41232	NA	NA	15.35.06 (7J55N)	3.11.56.0	15.35.06 (7J55N)	3.11.56.0
Qlogic QLE2692 fc/QLE2772 FC			15.35.08 (KV0M6)	3.1.87.0	15.35.08 (KV0M6)	3.1.87.0
EmulexLPE31002/35002FC			03.05.20 (2C1YY)	12.8.351.29	03.05.20 (2C1YY)	12.8.351.29
Mellanox CX4-LX	NA	NA	14.32.20.04 (PY7FC)	4.17.71.1	14.32.20.04 (PY7FC)	4.17.71.1
Mellanox CX5-EX/EN	NA	NA	16.32.20.04 (OCXFK)	4.17.71.1	16.32.20.04 (OCXFK)	4.17.71.1
Mellanox CX6-DX			22.32.20.04 (DNT3H)	4.17.71.1	22.32.20.04 (DNT3H)	4.17.71.1
Mellanox CX6-LX			26.32.20.04 (J2NKX)	4.17.71.1	26.32.20.04 (J2NKX)	4.17.71.1
iDRAC	2.83.83.83 (DDK5R)		5.10.50.00 (RTTPH)		5.10.50.00 (RTTPH)	
PTAgent	2.5.2.7		2.5.2.7		2.5.2.7	
iSM	4.1.0 (C8YW2)		4.1.0 (C8YW2)		4.1.0 (C8YW2)	
AEP/PMEM Firmware	NA		01.02.00.5444 (R4Y1Y)		NA	
PM	1.16, 2.07		1.11, 1.12 P580N 1.01, with PMEM 1.03		1.03, 1.04, 1.05 G560/F 1.01 D560/F	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.3024 (3P39V)		2.5.13.3024 (3P39V) D560/F	
Expander BP	3.35 (HYPYY)		2.52 (60K1J) (P/V570, E560)		NA	
Non-Expander BP	2.25 (HRP1V)		4.35 (S570, P580N) (VV85D)		4.36 (R31PT) G560/F	4.35 (VV85D) D560/F
CPLD	NA		See tables in section 8		See tables in section 8	

Chassis Mgmt Brd	NA	NA	See table in section 8.2
IDSDM	NA	2.0 (X4K6X) (See table in section 8.3)	NA

Software Item	Version	Software Item	Version
VxRail System	4.7.560 27760933	vCenter**	6.7 U3s 20540798
ESXi	6.7 P08 20497097	Secure Remote Services	See Section 7
VxRail Manager	4.7.560 20621852	Log Insight	8.6.2 19092412

*Inbox driver

** VxRail-managed VMware vCenter Server

ESXi	6.7 P08 (6x5)	
vSAN	6.7 P08	
BIOS	2.6.6 (C4FT0)	
	FW	Driver
HBA330 Mini	16.17.01.00 (124X2)	17.00.02.00*
NDC and NICs	FW	Driver
Intel X710	20.5.13 (M20T0)	1.14.2.0
Intel E810	20.5.13 (NVXX9)	1.6.2.0
Qlogic QLE2692 fc/QLE2772 FC	15.35.08 (KV0M6)	3.1.87.0
Qlogic 41112/41164/41262/41162/41132/41232	15.35.06 (7J55N)	3.11.56.0
EmulexLPE31002/35002FC	03.05.20 (2C1YY)	12.8.351.29
BCM 5720	22.00.60 (DFF48)	4.1.3.2-1*
BCM 57412/57414/57416/57504	22.00.07.60 (NPNT5)	220.0.2.0
Marvell FastLinQ 41262/41232/41132	15.25.11 (0NYVV)	3.11.41.0
Mellanox CX5-EN/EX	16.32.20.04 (0CXFK)	4.17.71.1
Mellanox CX6-DX	22.32.20.04 (DNT3H)	4.17.71.1
Mellanox CX6-LX	26.32.20.04 (J2NKX)	4.17.71.1
iDRAC	5.10.50.00 (RTTPH)	
PTAgent	2.5.2.7	
iSM	4.1.0 (C8YW2)	
PM	1.0	
M.2 disk	See Section 11	
BOSS/SATADOM	2.5.13.3024 (3P39V)	
Expander BP	2.52 (60K1J) P675F	

Non-Expander BP	4.35 (VV85D) E665/F/N, P675N
CPLD	See tables in section 8
IDSDM	NA

Software Item	Version
VxRail System	4.7.560 27760933
Secure Remote Services	See Section 7
Log Insight	8.6.2 19092412
vCenter**	6.7 U3s 20540798
ESXi	6.7 P08 20497097
VxRail Manager	4.7.560 20621852

* Inbox driver

** VxRail-managed VMware vCenter Server

7 Secure Remote Services Tables

Solution	Version	Publish Date	4.7.540 4.7.541 4.7.542 4.7.550 4.7.560	4.7.521 4.7.525 4.7.526 4.7.527 4.7.530/531 4.7.532/533 4.7.535/536	4.7.520	4.7.510 4.7.511 4.7.515	4.7.4xx 4.7.500	4.7.3xx	4.7.2xx	4.7.1xx
Secure Remote Services VE (Internal)	3.52	2021/06	Y*	Y**	Y**	Y**	Y**	Y**	Y**	Y**
	3.50	2021/01		Y**	Y**	Y**	Y**	Y**	Y**	Y**
	3.48	2020/10		Y*	Y**	Y**	Y**	Y**	Y**	Y**
	3.46	2020/07			Y*	Y**	Y**	Y**	Y**	Y**
	3.42	2020/01				Y*	Y**	Y**	Y**	Y**
	3.40	2019/10					Y**	Y**	Y**	Y**
	3.38	2019/08					Y**	Y**	Y**	Y**
	3.36	2019/04					Y*	Y*	Y**	Y**
	3.28	2018/08							Y*	Y*
Secure Remote Services VE (External)	3.52	2021/06	Y	Y	Y	Y	Y	Y	Y	Y
	3.50	2021/01	Y	Y	Y	Y	Y	Y	Y	Y
	3.48	2020/10	Y	Y	Y	Y	Y	Y	Y	Y
	3.46	2020/07	Y	Y	Y	Y	Y	Y	Y	Y
	3.42	2020/01	Y	Y	Y	Y	Y	Y	Y	Y
	3.40	2019/10	Y	Y	Y	Y	Y	Y	Y	Y
	3.38	2019/08	Y	Y	Y	Y	Y	Y	Y	Y
	3.36	2019/04	Y	Y	Y	Y	Y	Y	Y	Y
	3.34	2019/02	Y	Y	Y	Y	Y	Y	Y	Y
	3.32	2018/11	Y	Y	Y	Y	Y	Y	Y	Y
	3.28	2018/08	Y	Y	Y	Y	Y	Y	Y	Y
	3.26	2018/01	Y	Y	Y	Y	Y	Y	Y	Y
	3.24	2017/12	Y	Y	Y	Y	Y	Y	Y	Y
SAE VE (External)	4.00.06	2020/12	Y	Y	Y	Y	Y	Y	Y	Y
	4.00.05	2019/11	Y	Y	Y	Y	Y	Y	Y	Y
Secure connect gateway VE(External)	5.00.07.10	2021/12	Y	Y	Y	Y	Y	Y	Y	Y
	5.10.0.10	2022/3	Y	Y	Y	Y	Y	Y	Y	Y

Notes: * For internal SRS, this is the version that shipped with the release

** Supported upgrade versions. Must upgrade SRS directly, not supported by LCM

8 FW Not Locked in Factory

VxRail does not lock (i) CPLD, (ii) Chassis Management, and (iii) IDSDM FWs in factory. When new FW is released for these components, they cut-in to manufacturing and appear in the subsequent shipment.

8.1 CPLD – Valid versions

Major Rel	VxRail Release	Date		E560/F/N		P/V570/F, S570				G560/F			P580N	D560/F		E665/F/N, P675F/N		
		RTW	RTS	1.0.2 6/12/18	1.0.6 9/17/19	1.0.6 11/16/18	1.0.7 3/5/19	1.1.3 6/18/19	1.1.4 9/29/20	1.0.7 10/16/18	1.0.9 6/18/19	1.1.0 12/6/19	1.0.6 12/10/19	1.0.8 6/23/20	1.0.10 12/16/20	1.0.3 6/23/20	1.0.6 3/25/21	1.0.7 7/02/21
4.7.x	4.7.000	11/16/18	12/20/18	X		X				X								
	4.7.110	3/18/19	5/7/19	X			X (until 6/18/19)	X		X (until 6/18/19)	X							
	4.7.210	6/4/19	7/16/19	X (until 9/17/19)	X			X			X							
	4.7.300	8/20/19	10/15/19		X			X			X (until 12/6/19)	X						
	4.7.400		12/10/19		X	NA	NA	NA		NA	NA	NA	X					
	4.7.410	10/17/19	4/20/20		X			X				X	X					
	4.7.500		6/23/20	NA	NA	NA	NA	NA		NA	NA	NA		X		X*		
	4.7.510		7/15/20		X			X				X	X	X		X*		
	4.7.520	10/23/20	11/10/20		X				X			X	X	X		X		
	4.7.525	12/03/20	12/08/20		X				X			X	X	X (until 12/16/20)	X	X		
	4.7.530	04/27/21	5/25/21		X				X			X	X		X	X (until 3/25/21)	X (until 7/2/21)	X
	4.7.540	12/07/21	NA		X				X			X	X		X	X (until 3/25/21)	X (until 7/2/21)	X
	4.7.541	02/11/22	TBD		X				X			X	X		X	X (until 3/25/21)	X (until 7/2/21)	X
	4.7.550	6/28/22	8/23/22		X				X			X	X		X	X (until 3/25/21)	X (until 7/2/21)	X

NA → Not valid for those VxRail Systems

* → only E665/F/N

CPLD SWBs per release:

E560/F/N – 1.0.1(FKRG7), 1.0.2(FN8CW), 1.0.6(9N4DH) (Current Factory)

P/V/S570/F – 1.0.1(GHRPC), 1.0.6(PC0N3), 1.0.7(VJT4F), 1.1.3 (5J9KP), 1.1.4 (G65GH) (Current Factory)

G560/F – 1.0.6 (G3PTK), 1.0.9 (7MJ7K), 1.0.9 (7MJ7K) 1.1.0 (XR7JW) (Current Factory)

P580N – 1.0.6 (67GJY) (Current Factory)

D560/F – 1.0.8 (MP278), 1.0.10 (1GW62) (Current Factory)

E665/F/N, P675F/N – 1.0.3 (YR1G7), 1.0.6 (N8V43), 1.0.7 (79XGF) (Current Factory)

Notes:

1. This table shows the versions of CPLD FW installed on VxRail systems when manufactured with the corresponding VxRail SW release.
2. Updating older CPLD FW installed on previously deployed VxRail systems is only required when specifically stated in the Release Notes.
3. Updating VxRail SW to a new release (LCM) does NOT automatically update CPLD FW. When required, CPLD FW must be updated manually.

8.2 Chassis Management Board – Valid Versions

Major Rel	VxRail Release	Date		CMC for G560/F									
		RTW	RTS	1.53.00.00 3/6/18	1.67.00.00 3/5/19	1.70.00.00 6/12/19	2.1.9 12/12/19	2.37 2/18/20	2.40 4/14/20	2.51 7/14/20	3.23 7/12/21	3.32 12/7/21	
4.7.x	4.7.000	11/16/18	12/20/18	X									
	4.7.110	3/18/19	5/7/19	X (until 3/5/19)	X								
	4.7.210	6/4/19	7/16/19		X (until 6/12/19)	X							
	4.7.300	8/20/19	10/15/19			X (until 12/12/19)	X						
	4.7.400		12/10/19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4.7.410	10/17/19	4/20/20				X (until 2/18/20)	X (until 4/15/20)	X				
	4.7.500		6/23/20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4.7.510		7/15/20						X (until 7/14/20)	X			

NA → 4.7.400 is not a valid release for the G560/F

G560/F – 1.53.00.00 (MF2H1), 1.67.00.00 (CCK6H), 1.70.00.00 (PF3RM), 2.1.9 (P6CGF) 2.37 (338FP) 2.40 (74TRH) 2.51 (5H2H5) (Current Factory)

Notes:

1. LCM is not supported for the Chassis Management Controller/Board.
2. The CM FW is not locked in the factory for VxRail. This means that when a new CM FW version is cut-in to manufacturing, it will appear on all subsequent G560/F systems shipped from manufacturing as of that time.
3. Any RTW only release is not relevant as there is no LCM. Manufacturing only deploys with the versions noted in the table. CM Board updates must be done manually to RTW releases.

8.3 IDSDM – Valid Versions

IDSDM FW is “not locked” in factory. When a new FW is released, it is available for manufacturing. LCM is supported for IDSDM FW.

Release Train	VxRail Releases	Date		IDSDM		
		RTW	RTS	1.7 6/19/17	1.9 6/18/19	1.13 10/4/21
7.x	4.7.000	11/16/18	12/20/18	X		
	4.7.110	3/18/19	5/7/19	X (until 6/18/19)	X	
	4.7.210	6/4/19	7/16/19		X	
	4.7.300	8/20/19	10/15/19		X	
	4.7.400		12/10/19		X	
	4.7.410	10/17/19	4/20/20		X	
	4.7.500		6/23/20		X	
	4.7.510	5/28/20	7/14/20		X	
	4.7.520	10/23/20	11/10/20		X	
	4.7.530	04/27/21	5/25/21		X (until 10/4/21)	X
	4.7.540	12/07/21	TBD			X

IDSDM released versions - 1.7 (FF4WY), 1.9 (3N5TF), 1.13 (2NPVN) Current Factory

Notes:

1. IDSDM FW is not locked in the factory for VxRail. This means that when a new IDSDM FW version is released and available, it cuts-in to manufacturing and it will appear in subsequent shipment.
2. LCM is supported for IDSDM and FW can be updated with VxRail RTW only releases.
3. IDSDM is supported for E560/F/N, P570/F, V570/F, S570, P580N VxRail models.

9 Supported Life Cycle Management (LCM) Devices

Table 3 Supported devices for LCM

The following table reflects in which VxRail release these devices were incorporated into the LCM feature:

Device	As of VxRail Release		
	6.0.x	6.5.x	6.7.x
BIOS	4.0.400	4.5.070	4.7.000
HBA	4.0.400	4.5.070	4.7.000
iDRAC	4.0.400	4.5.152	4.7.000
NICs – Intel	NA	See table below	See table below
NICs – Broadcom	NA	4.5.218	4.7.000
Backplane	NA	4.5.300	4.7.000
Backplane – Expander	NA	4.5.300	4.7.000
BOSS	NA	4.5.300	4.7.000
Drives	NA	See table below	See table below
PSUs*	NA	4.5.300	4.7.000
IDSDM	NA	4.5.420	4.7.300

* LCM is “supported” but not validated for 48V DC and 380 HVDC

Table 4 Supported Drives for LCM

Drive LCM Detail:

Vendor	Description	Model	First Date Supported on VxRail	First LCM Release	
				4.5.x	4.7.x
Toshiba/KIOXIA	PM4 400 GB SAS SSD	PX05SMB040Y	Mar-2017	4.5.300	4.7.000
	PM4 800 GB SAS SSD	PX05SMB080Y	Mar-2017	4.5.300	4.7.000
	PM4 1600 GB SAS SSD	PX05SMB160Y	Mar-2017	4.5.300	4.7.000
	PM4 1920 GB SAS SSD	PX05SRB192Y	Mar-2017	4.5.300	4.7.000
	PM4 3840 GB SAS SSD	PX05SRB384Y	Mar-2017	4.5.300	4.7.000
	PM5 400 GB SAS SSD	KPM5XMUG400G	Dec-2018	4.5.400	4.7.212
	PM5 800 GB SAS SSD	KPM5XMUG800G	Dec-2018	4.5.400	4.7.212
	PM5 1600 GB SAS SSD	KPM5XMUG1T60	Dec-2018	4.5.400	4.7.212
	PM5 1920 GB SAS SSD	KPM5XRUG1T92	Dec-2018	4.5.400	4.7.212
	PM5 3840 GB SAS SSD	KPM5XRUG3T84	Dec-2018	4.5.400	4.7.212
	PM6 960GB SAS SSD FIPS	KPM6WVUG960G	Aug-2021	N/A	4.7.540
	PM6 1.92TB SAS SSD FIPS	KPM6WRUG1T92	Aug-2021	N/A	4.7.540
	PM6 3.84TB SAS SSD FIPS	KPM6WRUG3T84	Aug-2021	N/A	4.7.540
	PM6 400GB WI SAS SSD	KPM6XMUG400G	Apr-2021	N/A	4.7.540
	PM6 800GB WI SAS SSD	KPM6XMUG800G	Apr-2021	N/A	4.7.540
	PM6 800GB MU SAS SSD	KPM6XVUG800G	Apr-2021	N/A	4.7.540
	PM6 1.6TB MU SAS SSD	KPM6XVUG1T60	Apr-2021	N/A	4.7.540
	PM6 1.92TB RI SAS SSD	KPM6XRUG1T92	Apr-2021	N/A	4.7.540
	PM6 3.84TB RI SAS SSD	KPM6XRUG3T84	Apr-2021	N/A	4.7.540
	PM6 7.68TB RI SAS SSD	KPM6XRUG6T68	Apr-2021	N/A	4.7.540
	RM6 1.92TB RI vSAS SSD SED	KRM6VRUG1T92	Aug-2021	N/A	4.7.540
	RM6 3.84TB RI vSAS SSD SED	KRM6VRUG3T84	Aug-2021	N/A	4.7.540
	RM6 7.68TB RI vSAS SSD SED	KRM6VRUG7T68	Aug-2021	N/A	4.7.540
	RM6 1.92TB MU vSAS SSD SED	KRM6VVUG1T92	Aug-2021	N/A	4.7.540
	RM6 3.84TB MU vSAS SSD SED	KRM6VVUG3T84	Aug-2021	N/A	4.7.540
	CD5 960 GB NVMe SSD	SDFPF86DAB01	Dec-2019	N/A	4.7.410
	CD5 3840 GB NVMe SSD	SDFPF84DAB01	Dec-2019	N/A	4.7.410
	AL15SE 1.8TB HDD	AL15SEB18EQY	Aug-2018	N/A	4.7.520
	AL15SE 2.4TB HDD	AL15SEB24EQY	Aug-2018	N/A	4.7.520
	MG06 8TB HDD	MG06SCA800EY	Dec-2019	N/A	4.7.520
	Tomcat-R 4TB HDD	MG04SCA40ENY	Apr-2017	N/A	4.7.520
	MG08SD 4TB SAS HDD	MG08SDA400NY	June-2021	N/A	4.7.540
Seagate	Cimarron 4TB HDD	ST4000NM017A	Apr-2020	N/A	4.7.520
	Cimarron 8TB HDD	ST8000NM014A	Dec-2019	N/A	4.7.520
	Makara Plus 8TB SAS HDD	ST8000NM0185	Dec-2019	N/A	4.7.520
Hitachi	4TB HGST NLSAS HDD	HUS726T4TALS200	Oct-2018	N/A	4.7.520
	8TB HGST SAS HDD	HUS728T8TALS200	Dec-2019	N/A	4.7.520
SKHynix	1.92TB RI SATA SSD	HFS1T9G32FEH-7A10A	July-2020	N/A	4.7.520
	3.84TB RI SATA SSD	HFS3T8G32FEH-7410A	July-2020	N/A	4.7.520
	SE5110 1.92TB SAS SSD	HFS1T9G3H2X069N	June-2021	N/A	4.7.540
	SE5110 3.84TB SAS SSD	HFS3T8G3H2X069N	June-2021	N/A	4.7.540
Western Digital	800GB SAS SSD	WUSTR6480BSS200	July-2020	N/A	4.7.520

	1.6TB SAS SSD	WUSTR6416BSS200	July-2020	N/A	4.7.520
	7.68TB MU SAS SSD	WUSTVA176BSS200	July-2020	N/A	4.7.520
	1.92TB MU SAS SSD	WUSTVA119BSS200	July-2020	N/A	4.7.520
	3.84TB MU SAS SSD	WUSTVA138BSS200	July-2020	N/A	4.7.520
	BC Quantum 400GB SAS SSD	WUSTM3240BSS200	Apr-2021	N/A	4.7.540
	BC Quantum 800GB SAS SSD	WUSTM3280BSS200	Aug-2021	N/A	4.7.540
Intel	S4500 1920 GB SATA SSD	SSDSC2KB019T7R	Mar-2018	4.5.300	4.7.000
	S4500 3840 GB SATA SSD	SSDSC2KB038T7R	Mar-2018	4.5.300	4.7.000
	S4510 1920 GB SATA SSD	SSDSC2KB019T8R	Dec-2018	4.5.310	4.7.110
	S4510 3840 GB SATA SSD	SSDSC2KB038T8R	Dec-2018	4.5.310	4.7.110
	S3520 240 GB SATA SSD M.2	SSDSCKB240G7R	Dec-2018	4.5.300	4.7.000
	S4510 240 GB SATA M.2	SSDSCKB240G8R	June-2019	4.5.420	4.7.410
	P4510 1000 GB NVMe SSD	SSDPE2KX010T8T	Dec-2019	N/A	4.7.410
	P4510 4000 GB NVMe SSD	SSDPE2KX040T8T	Dec-2019	N/A	4.7.410
	P4610 1600 GB NVMe SSD MU	SSDPE2KE016T8TP	Apr-2019	4.5.400	4.7.212
Samsung	P4800X 375 GB	SSDP321K375GATP	Jun-2019	4.5.400	4.7.212
	Dell Express Flash PM1725a 800GB SFF	MZWLL800HEHP-000D3	Apr-2018	4.5.300	4.7.000
	Dell Express Flash PM1725a 1.6TB SFF	MZWLL1T6HEHP-000D3	Apr-2018	4.5.300	4.7.000
	PM1635a 1.6TB MU SSD	MZILS1T6HEJH0D3	July-2018	N/A	4.7.520
	PM1735 1.6TB MU NVMe SSD	MZWLI1T6HBJRAD3	July-2019	N/A	4.7.520
	PM1733 1.92TB RI NVMe SSD	MZWLI1T9HBJRAD3	July-2020	N/A	4.7.520
	PM1733 3.84TB RI NVMe SSD	MZWLI3T8HBJRAD3	July-2020	N/A	4.7.520
	PM1733 7.68TB RI NVMe SSD	MZWLI7T6HALAAD3	July-2020	N/A	4.7.520
	PM1733 v2 1.92TB RI NVMe SSD	MZWLR1T9HBJRAD3	June-2021	N/A	4.7.540
	PM1733 v2 3.84TB RI NVMe SSD	MZWLR3T8HBJRAD3	June-2021	N/A	4.7.540
	PM1733 v2 7.68TB RI NVMe SSD	MZWLR7T6HBJRAD3	June-2021	N/A	4.7.540
	PM1725 v2 1.6TB MU NVMe SSD	MZWLR1T6HBJRAD3	June-2021	N/A	4.7.540
	PM863a 1920 GB SATA SSD	MZ7LM1T9HMLP0D3	Nov-2017	4.5.300	4.7.000
	PM863a 3840 GB SATA SSD	MZ7LM3T8HMLP0D3	Nov-2017	4.5.300	4.7.000
	PM883 1920 GB SATA SSD	MZ7LH1T9HMLT0D3	Dec-2018	N/A	4.7.300
	PM883 3840 GB SATA SSD	MZ7LH3T8HMLT0D3	Dec-2018	N/A	4.7.300
	PM1725b 1600 GB NVMe SSD MU	MZPLL1T6HAJQ	Apr-2019	4.5.400	4.7.212
	PM1645 800 GB SAS SSD MU	MZILT800HAHQ0D3	Jun-2019	4.5.400	4.7.212
	PM1645 1600 GB SAS SSD MU	MZILT1T6HAJQ0D3	Jun2019	4.5.400	4.7.212
Micron	5200 1920 GB SATA SSD RI	MTFDDAK1T9TDD	Apr-2019	4.5.400	4.7.212
	5100 Pro Boot 240 GB M.2	MTFDDAV240TCB	Aug-2018	4.5.400	4.7.212
	5300 RI 1.92TB SATA SSD	MTFDDAK1T9TDS	Apr-2019	N/A	4.7.520
	5300 RI 3.84TB SATA SSD	MTFDDAK3T8TDT	July-2020	N/A	4.7.520

Guideline: LCM is supported for all subsequent 4.5.x and 4.7.x releases after the “First LCM Release”.

Table 5 Supported NICs for LCM

NIC LCM Detail:

Vendor	Description	First Release Supported		First LCM Release	
		4.5.x	4.7.x	4.5.x	4.7.x
Intel	Intel X520/i350 DP 10Gb SFP+ and DP 1Gb, rNDC	4.5		4.5.210	4.7.000
	Intel X520/i350 DP 10Gb BT and DP 1Gb, rNDC	4.5		4.5.210	4.7.000
	Intel X550 QP 10Gb BT, NDC	4.5.101		4.5.210	4.7.000
	Intel X520 DP 10Gb SFP+ PCIe	4.5		4.5.210	4.7.000
	Intel X540 DP 10Gb BT PCIe	4.5		4.5.210	4.7.000
	Intel X550 DP 10Gb BT PCIe	4.5		4.5.210	4.7.000
	Intel X710 QP 10Gb DA/SFP+ Ethernet, rNDC	4.5.101		4.5.210	4.7.000
	Intel X710 DP 10Gb SFP+ OCP Mezzanine card, C6420 only	4.5.200		4.5.210	4.7.000
	Intel X710 DP 10Gb DA/SFP+ PCIe	4.5.101		4.5.210	4.7.000
	Intel X710 QP 10Gb SFP+ PCIe	4.5.101		4.5.210	4.7.000
	Intel X710 QP 10Gb BT PCIe	4.5.101		4.5.210	4.7.000
Broadcom	Broadcom 57414 DP 25Gb SFP28 rNDC	4.5.200		4.5.215	4.7.000
	Broadcom 57416 DP 10Gb SFP+/BT		4.7.500	N/A	4.7.500
	Broadcom 57412 DP 10Gb SFP+		4.7.520	N/A	4.7.520
Qlogic	Qlogic FastLinQ 41112 DP 10GbE SFP+ FH/LP		4.7.210	4.5.400	4.7.212
	Qlogic FastLinQ 41162 DP 10Gb BT FH/LP		4.7.210	4.5.400	4.7.212
	Qlogic FastLinQ 41164 QP 10GbE SFP+/BT rNDC		4.7.210	4.5.400	4.7.212
	Qlogic FastLinQ 41164 QP 10GbE SFP+ LP		4.7.210	4.5.400	4.7.212
	Qlogic FastLinQ 41164 QP 10GbE BT, FH/LP		4.7.210	4.5.400	4.7.212
	Qlogic FastLinQ 41262 DP		4.7.520	N/A	4.7.520
Mellanox	CX4-LX DP 25GbE SFP28 rNDC/FH/LP		4.7.210	4.5.400	4.7.212
	CX5-LX DP 100GbE SFP28 PCIe	4.5.420	4.7.400	N/A	4.7.510
	CX5 DP 25/100Gbps		4.7.520	N/A	4.7.520

Guideline: LCM is supported for all subsequent 4.5.x and 4.7.x releases after the “First LCM Release”.

10 Unmanaged Devices

This section lists PCIe cards that can be configured for VxRail platforms but are not managed by VxRail. The FW/Driver information shown here is based upon the current shipping FW/Driver as of a specific VxRail release. Be aware that since VxRail does not manage these devices, the FW/Driver information could change asynchronously to a VxRail SW release.

10.1 Ethernet and HBA Adapters

Major Rel	VxRail Release	Mellanox				EMULEX				Qlogic			
		CX5 [†] EX 100GbE		CX6 DX 100GbE		LPE 31002 16Gb FC HBA		LPE 35002 32Gb FC HBA		2692 16Gb FC HBA		2772 32Gb FC HBA	
		FW	Driver	FW	Driver	FW	Driver	FW	Driver	FW	Driver	FW	Driver
4.7.x	4.7.300												
	4.7.301												
	4.7.400												
	4.7.410	16.25.40.62	4.17.15.16 nmlx5-core			03.01.41	lpfc 12.2.373.1			15.00.00.00	3.1.16.0 qlnativefc		
	4.7.411												
	4.7.500												
	4.7.510	16.25.82.02*	4.17.15.16 nmlx5-core*			03.02.18	lpfc-12.4.242.0			15.05.12	qlnativefc_3.1.31.0		
	4.7.511												
	4.7.515												
	4.7.520												
	4.7.521												
	4.7.525	†	†	22.27.61.06**	4.17.70.1**	03.03.37**	lpfc 12.6.182.2**	03.03.37**	lpfc 12.6.182.2**	15.15.06**	qlnativefc 3.1.36.0**	15.15.06**	qlnativefc 3.1.36.0**
	4.7.526												
	4.7.527												
	4.7.530												
	4.7.531												
	4.7.532												
	4.7.533	†	†	22.28.45.12**	4.17.71.1**	03.04.24**	lpfc 12.8.317.0	03.04.24**	lpfc 12.8.317.0	15.20.14**	qlnativefc 3.1.46.0**	15.20.14**	qlnativefc 3.1.46.0**
	4.7.535												
	4.7.536												
	4.7.540	†	†	22.31.03.56**	4.17.71.1**	03.05.20**	lpfc 12.8.351.29	03.05.20**	lpfc 12.8.351.29	15.25.09**	qlnativefc 3.1.74.0**	15.25.09**	qlnativefc 3.1.74.0**
	4.7.541												

* - Not supported on E665/F/N

** - Not supported on G560/F

† - Supported as managed device from 4.7.520

10.2 GPUs/Accelerators

NVIDIA	
Supported HW – V100/100s, M10, M60, P40, T4, RTX6000, RTX8000, A40*, A100*	
FW	Driver
N/A	See NVIDIA Support Matrix - https://docs.nvidia.com/grid/gpus-supported-by-vgpu.html

* - Supported with 4.7.530 and above release

11 Supported Boot Devices

This section provides information about the supported boot devices.

Notes:

- Drive Firmware is “not locked” in factory. When new Firmware is introduced in factory for any drive, it can appear with new system shipments, drive adds, or drive replacements. A new VxRail release is not required for this new Firmware to appear in these new scenarios.
- The “Min Rev” column indicates that this Firmware version or higher is supported.

Table 6 Supported E460/F, P/V470/F, S470 boot device

Form Factor	Model	Disk Space	Vendor	Minimum Version
SATADOM	SATADOM-ML 3SE	64 GB	Innodisk	S130710K

Table 7 Supported D560/F, E560/F/N, G560/F, P/V570/F, P580N, E665/F/N, P675F/N boot device

Form Factor	Model	Disk Space	Vendor	Min Rev	Supported Platforms
SATA M.2	SSDSCKJB240G7R	240 GB	Intel DC S3520	DL42	E560/F/N, P570/F, V570/F, S570, G560/F, P580N
	SSDSCKKB240G8R	240 GB	Intel S4510	DL6N	E560/F/N, P570/F, V570/F, S570, G560/F, P580N
	SSDSCKKB240GZR	240GB	Intel S4520	DL70	E560/F/N, P570/F, V570/F, G560/F, P580N, S570
	SSDSCKKB480G8R	480GB	Intel S4510	DL6P	D560/F, E665/F/N, P675F/N
	SSDSCKKB480GZR	480GB	Intel S4520	DL70	D560/F, E665/F/N, P675F, P675N
	MTFDDAV240TCB	240 GB	Micron 5100 Pro Boot	E006	E560/F/N, P570/F, V570/F, S570, G560/F, P580N
	MTFDDAV480TCB	480GB	Micron 5100 Pro Boot	E012	D560/F, E665/F/N, P675F/N
	MTFDDAV240TDU	240 GB	Micron 5300 Pro Boot	J004	E560/F, P570/F, V570/F, S570, G560/F
	MTFDDAV480TDS	480 GB	Micron 5300 Pro Boot	J004	D560/F, E665/F/N, P675F/N

12 Supported HDD and SSD

This section provides information about the supported hard drives and solid-state drives.

Notes:

- Drive Firmware is “not locked” in factory. When new Firmware is introduced in factory for any drive, it can appear with new system shipments, drive adds, or drive replacements. A new VxRail release is not required for this new Firmware to appear in these new scenarios.
- The “Min Rev” column indicates that this Firmware version or higher is supported.

Legend:

WI = Write Intensive, MU = Mixed Use, RI = Read Intensive, New Drives/Components/Updates for this release, **EOL**

Table 8 Supported storage devices in servers.

Component	Family	Part Number	Model	Min Rev	Supported Platforms
Cache SAS SSD					
400GB HGST WI SAS SSD EOL	Sunset Cove Plus	G1D1K	HUSMM1640ASS204	L380	P470/F, V470/F, S470
400GB Toshiba WI SAS SSD	PM4	5VHHG	PX05SMB040Y	AS03	E460/F, P470/F, V470/F, S470, E560/F, P570/F, V570/F, S570, G560/F
400GB Toshiba WI SAS SSD	PM5	WGP72	KPM5XMUG400G	B026	E460/F, P470/F, V470/F, S470, E560/F, P570/F, V570/F, S570, G560/F
400GB KIOXIA WI SAS SSD	PM6	VW3D6	KPM6XMUG400G	BA08	E560/F, P570/F, V570/F, G560/F, S570, D560/F, E665/F, P675F
400GB Western Digital WI SAS SSD	Bear Cove Quantum	DMV85	WUSTM3240BSS200	G10A	E560/F, P570/F, V570/F, G560/F, S570, D560/F, E665/F, P675F
800GB HGST WI SAS SSD EOL	Sunset Cove Plus	CW988	HUSMM1680ASS204	L380	P470/F, V470/F, S470
800GB HGST WI SAS SSD	Bear Cove	JDX4K	HUSMM3280ASS200	J158	E560/F, P570/F, V570/F, S570, G560/F
800GB HGST WI SAS SSD	Bear Cove	4D43D	HUSMR3280ASS200	J158	D560/F, E560/F, E665/F, P570/F, V570/F, S570, G560/F
800GB HGST WI SAS SSD	Bear Cove Plus	H07XR	WUSTR6480ASS200	K953	D560/F, E560/F, E665/F, P570/F, V570/F, S570, G560/F

Component	Family	Part Number	Model	Min Rev	Supported Platforms
800GB Samsung MU SAS SSD	PM1645	D9NCK	MZILT800HAHQ0D3	DWF8	D560/F, E560/F, E665/F, P570/F, V570/F, S570, G560/F
800GB Samsung MU SAS SSD	PM1645a	GW8T1	MZILT800HBHQ0D3	DWA3	D560/F, E560/F, E665/F, P570/F, V570/F, S570, G560/F, P675F
800GB Toshiba WI SAS SSD	PM4	CN3JH	PX05SMB080Y	AS03	E460/F, P470/F, V470/F, S470 E560/F, P570/F, V570/F, S570, G560/F
800GB Toshiba WI SAS SSD	PM5	DHRVV	KPM5XMUG800G	B026	E460/F, P470/F, V470/F, S470 E560/F, P570/F, V570/F, S570, G560/F
800GB KIOXIA MU SAS SSD	PM6	JTKH5	KPM6XVUG800G	BA08	E560/F, P570/F, V570/F, G560/F, S570, D560/F, E665/F, P675F
800GB KIOXIA WI SAS SSD	PM6	H6GCD	KPM6XMUG800G	BA08	E560/F, P570/F, V570/F, G560/F, S570, D560/F, E665/F, P675F
800GB Western Digital WI SAS SSD	Bear Cove Quantum	F99F6	WUSTM3280BSS200	G10A	E560/F, P570/F, V570/F, G560/F, S570, D560/F, E665/F, P675F
800GB Western Digital MU SAS SSD	BC Quantum	6VJC9	WUSTR6480BSS200	G101	D560/F, E560/F, E665/F, P570/F, V570/F, G560/F, P675F
960GB KIOXIA MU SAS SSD (FIPS)	PM6	WMWKG	KPM6WVUG960G	BD08	E660/F, P670F, E560/F, P570/F, V570/F, G560/F, D560/F, E665/F, P675F, V670F
1.6TB HGST WI SAS SSD EOL	Sunset Cove Plus	5HR3X	HUSMM1616ASS204	L380	P470/F, V470/F, S470
1.6TB HGST MU SAS SSD	Bear Cove	FDC8J	HUSMR3216ASS200	J158	E560/F, P570/F, V570/F, S570, G560/F
1.6TB HGST MU SAS SSD	Bear Cove Plus	8W6HC	WUSTR6416ASS200	K953	E560/F, P570/F, V570/F, S570, G560/F
1.6TB Samsung MU SAS SSD	PM1645	DR0HX	MZILT1T6HAJQ0D3	DWF8	D560/F, E560/F, E665/F, P570/F, V570/F, S570, G560/F
1.6TB Samsung MU SAS SSD	PM1645a	3TCV6	MZILT1T6HBJR0D3	DWA3	D560/F, E560/F, E665/F, P570/F, V570/F, S570, G560/F, P675F
1.6TB Toshiba WI SAS SSD	PM4	GVTYD	PX05SMB160Y	AS03	E460/F, P470/F, V470/F, S470 E560/F, P570/F, V570/F, S570, G560/F
1.6TB Toshiba WI SAS SSD	PM5	W9G88	KPM5XMUG1T60	B026	E460/F, P470/F, V470/F, S470, E560/F, P570/F, V570/F, S570, G560/F, P675F

Component	Family	Part Number	Model	Min Rev	Supported Platforms
1.6TB KIOXIA MU SAS SSD	PM6	GD3N0	KPM6XVUG1T60	BA08	E560/F, P570/F, V570/F, G560/F, S570, D560/F, E665/F, P675F
1.6TB Western Digital SAS SSD	BC Quantum	6NF96	WUSTR6416BSS200	G101	D560/F, E560/F, E665/F, P570/F, V570/F, G560/F, P675F
Cache NVMe SSD					
375GB Intel NVMe SSD	P4800X	3DM57	SSDPE21K375GAT	E201DP31	E560/F/N, E665N, P570/F, G560/F, P580N, V570/F, P675N
400GB Intel NVMe SSD	P5800X	7H98V	SSDPF21Q400GBE	1.0.0	E560F, E560N, P570F, G560F, E665N, P675N, P580N
750GB Intel NVMe SSD	P4800X	DX4NF	SSDPE21K750GAT	E201DP31	E560/F/N, E665N, P570/F, G560/F, P580N, V570/F
800GB Intel NVMe SSD	P5800X	MJ37V	SSDPF21Q800GBE	1.0.0	E560F, E560N, P570F, G560F, E665N, P675N, P580N
800GB Samsung NVMe SSD	PM1725a	KWH83	MZWLL800HEHP-000D3	1.0.4	E560/F/N, E665N, P570/F, G560/F, P580N, V570/F
1.6TB Intel NVMe SSD	P4610	58V30	SSDPE2KE016T8T	VDV1DP25	E560/F/N, E665N, P570/F, G560/F, P580N, V570/F, P675N
1.6TB Intel NVMe SSD	P5600	C9X5T	SSDPF2KE016T9T	1.0.0	E560F/N, P670F, G560F, P580N, E665N, P675N
1.6TB Samsung NVMe SSD	PM1725a	JD6CH	MZWLL1T6HEHP-000D3	1.0.4	E560/F/N, E665N, P570/F, G560/F, P580N, V570/F
1.6TB Samsung NVMe SSD	PM1725b	4WDXY	MZWLL1T6HAJQ-000D3	1.0.0	E560/F/N, E665N, P570/F, G560/F, P580N, V570/F
1.6TB Samsung MU NVMe SSD	PM1735	6GK00	MZWLL1T6HBJRAD3	2.0.2	E560F/N, E665N, P570F, P580N, V570/F, G560/F, P675N
1.6TB KIOXIA MU NVMe SSD	CM6	P03YC	KCM6XVUL800G	2.1.4	E560F, P570F, G560F, E560N, P580N, E665N, P675N
Capacity NVMe SSD					
960GB Toshiba RI NVMe SSD	CD5	DRC9H	SDFPF86DAB01	1.2.0	E560N, E665N, P580N, P675N
1TB Intel NVMe SSD	P4510	FJ9YX	SSDPE2KX010T8T	VDV1DP25	E560N, E665N, P580N, P675N

Component	Family	Part Number	Model	Min Rev	Supported Platforms
1.92TB Samsung RI NVMe SSD	PM1733	2380X	MZWLJ1T9HBJRAD3	2.0.2	E560N, E665N, P580N, P675N
1.92TB Samsung RI NVMe SSD	PM1733 V2	WPR17	MZWLR1T9HBJRAD3	2.0.0	E560N, P580N, E665N, P675N
1.92TB KIOXIA RI NVMe SSD	CM6	N0VK0	KCM6XRUL1T92	2.1.4	E560N, P580N, E665N, P675N
3.84TB Samsung RI NVMe SSD	PM1733	7NXWW	MZWLJ3T8HBJRAD3	2.0.2	E560N, E665N, P580N, P675N
3.84TB Samsung RI NVMe SSD	PM1733 V2	G5N65	MZWLR3T8HBJRAD3	2.0.0	E560N, P580N, E665N, P675N
3.84TB Toshiba RI NVMe SSD	CD5	17C57	SDFPF84DAB01	1.2.0	E560N, E665N, P580N, P675N
3.84TB KIOXIA RI NVMe SSD	CM6	8W2G5	KCM6XRUL3T84	2.1.4	E560N, P580N, E665N, P675N
4TB Intel NVMe SSD	P4510	5GMK0	SSDPE2KX040T8T	VDV1DP25	E560N, E665N, P580N
7.68TB Samsung RI NVMe SSD	PM1733	Y27TR	MZWLJ7T6HALAAD3	2.0.2	E560N, E665N, P580N, P675N
7.68TB Samsung RI NVMe SSD	PM1733 V2	DX74Y	MZWLR7T6HALAAD3	2.0.0	E560N, P580N, E665N, P675N
7.68TB KIOXIA RI NVMe SSD	CM6	VD0JX	KCM6XRUL7T86	2.1.4	E560N, P580N, E665N, P675N
960GB HYNIX RI NVMe SSD	PE8010	WR2FG	HFS960GECTX088N	1.0.0	E560N, E665N, P675N, P580N
3.84TB HYNIX RI NVMe SSD	PE8010	V6WP5	HFS3T8GECTX088N	1.0.0	E560N, E665N, P675N, P580N
Capacity SAS SSD					
1.92TB SKHynix RI SSD	SE5110	962FP	HFS1T9G3H2X069N	DZ00	E560/F, P570/F, V570/F, G560/F
3.84TB SKHynix RI SSD	SE5110	3GDK0	HFS3T8G3H2X069N	DZ00	E560/F, P570/F, V570/F, G560/F
1.6TB Samsung MU SAS SSD	PM1635a	W5PP5	MZILS1T6HEJH0D3	DWL7	E560/F, P570/F, G560/F
1.6TB Samsung MU SAS SSD	1645a	3TCV6	MZILT1T6HBJR0D3	DWA3	E560/F, P570/F, G560/F
1.92TB HGST RI SAS SSD EOL	Sunset Cove Plus	VCWFG	HUSMR1619ASS204	H1D0	P470/F, V470/F, S470
1.92TB Toshiba RI SAS SSD EOL	PM3	R87FK	PX04SRB192	AM04	P470/F, V470/F, S470
1.92TB HGST RI SAS SSD	Bear Cove Plus	5ND33	WUSTR1519ASS200	K953	E560/F, P570, V570/F, G560/F
1.92TB Toshiba RI SAS SSD	PM4	0FYFW	PX05SRB192Y	AS03	E460F, P470F, V470F, D560/F, E560F, E665/F, P570F, V570F, G560/F

Component	Family	Part Number	Model	Min Rev	Supported Platforms
1.92TB Toshiba RI SAS SSD	PM5	TDNP7	KPM5XRUG1T92	B026	E460/F, P470/F, V470/F, S470, D560/F, E560/F, E665/F, P570/F, V570/F, S570, G560/F, P675F
1.92TB KIOXIA RI SAS SSD	PM6	4CN85	KPM6XRUG1T92	BA08	E560F, P570F, V570F, G560F, E665F, D560F, P675F
1.92TB KIOXIA RI SAS SSD (FIPS)	PM6	7F2D1	KPM6WRUG1T92	BD08	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P567F, V670F
1.92TB KIOXIA RI VSAS SSD (SED)	RM6	1FGWG	KRM6VRUG1T92	BJ02	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
1.92TB KIOXIA MU VSAS SSD (SED)	RM6	N15JP	KRM6VVUG1T92	BJ02	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
1.92TB Toshiba RI VSAS SSD	RM5	37HTM	KRM5XRUG1T92	B709	E560F, P570F, V570F, G560F, D560F, E665F
1.92TB Toshiba MU VSAS SSD	RM5	FDVMH	KRM5XVUG1T92	B709	E560F, P570F, V570F, G560F, D560F, E665F
1.92TB Samsung RI SAS SSD	PM1633a	086DD	MZILS1T9HEJH0D3	DSL5	E460F, P470F, V470F, D560/F, E560F, E665/F, P570F, V570F, G560/F
1.92TB Samsung RI SAS SSD	PM1643	F0V FY	MZILT1T9HAJQ0D3	DSF4	E460F, P470F, V470F, D560/F, E560F, E665/F, P570F, V570F, G560/F
1.92TB Samsung RI SAS SSD	PM1643a	TMTW9	MZILT1T9HBJR0D3	DSA3	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
1.92TB Western Digital MU SAS SSD	BC Quantum	02X38	WUSTVA119BSS200	G101	D560F, E560F, E665F, P570F, V570F, G560/F, P675F
1.92TB Seagate RI VSAS SSD	Lange BP	RT5XM	XS1920SE70154	4D0B	E560F, P570F, V570F, G560F, D560F, E665F, P675F
1.92TB Seagate RI SAS SSD	Lange BP	D4VFW	XS1920SE70114	3D01	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
1.92TB Seagate RI VSAS SSD (SED)	Lange BP	K9T53	XS1920SE70134	4S0B	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
1.92TB Seagate MU VSAS SSD	Lange BP	91DPV	XS1920LE70154	4D0B	E560F, P570F, V570F, G560F, D560F, E665F, P675F

Component	Family	Part Number	Model	Min Rev	Supported Platforms
1.92TB Seagate MU VSAS SSD (SED)	Lange BP	N6DRV	XS1920LE70134	4S0B	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
3.84TB Toshiba RI SAS SSD EOL	PM3	M09K5	PX04SRB384	AM04	P470/F, V470/F, S470
3.84TB Samsung RI SAS SSD	PM1633a	JR1HP	MZILS3T8HMLH0D3	DSL5	E460F, P470F, V470F, D560/F, P570F, E665/F, P570F, V570F, G560/F
3.84TB Samsung RI SAS SSD	PM1643	X8F87	MZILT3T8HALS0D3	DSF4	E460F, P470F, V470F, D560/F, E560F, E665/F, P570F, V570F, G560/F
3.84TB Samsung RI SAS SSD	PM1643a	CRNPH	MZILT3T8HBLS0D3	DSA3	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
3.84TB Toshiba RI SAS SSD	PM4	XCRDV	PX05SRB384Y	AS03	E460F, P470F, V470F, D560/F, E560F, E665/F, P570F, V570F, G560/F
3.84TB Toshiba RI SAS SSD	PM5	N85XX	KPM5XRUG3T84	B026	E460/F, P470/F, V470/F, D560/F, E560/F, E665/F, P570/F, V570/F, G560/F, P675F
3.84TB Toshiba MU SAS SSD	PM5	91W3V	KPM5XVUG3T84	B026	D560/F, E560F, E665/F, P570F, V570F, G560/F
3.84TB KIOXIA RI SAS SSD	PM6	H9TT5	KPM6XRUG3T84	BA08	E560F, P570F, V570F, G560F, E665F, D560F, P675F, E460/F, P470/F, V470/F
3.84TB KIOXIA RI SAS SSD (FIPS)	PM6	FH1W9	KPM6WRUG3T84	BD08	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P567F, V670F
3.84TB KIOXIA RI VSAS SSD (SED)	RM6	XNXD2	KRM6VRUG3T84	BJ02	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
3.84TB KIOXIA MU VSAS SSD (SED)	RM6	FXYGR	KRM6VVUG3T84	BJ02	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
3.84TB Toshiba MU VSAS SSD	RM5	X78JM	KRM5XVUG3T84	B709	E560F, P570F, V570F, G560F, D560F, E665F
3.84TB Western Digital MU SAS SSD	BC Quantum	FP1KF	WUSTVA138BSS200	G101	D560F, E560F, E665F, P570F, V570F, G560/F, P675F
3.84TB Seagate MU VSAS S	Lange BP	NWGX3	XS3840LE70154	4D0B	E560F, P570F, V570F, G560F, D560F, E665F, P675F
3.84TB Seagate RI SAS SSD	Lange BP	KXDCD	XS3840SE70114	3D01	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F

Component	Family	Part Number	Model	Min Rev	Supported Platforms
3.84TB Seagate RI VSAS SSD (SED)	Lange BP	4KPKF	XS3840SE70134	4S0B	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
3.84TB Seagate MU VSAS SSD (SED)	Lange BP	YM9HP	XS3840LE70134	4S0B	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
7.68TB Samsung RI SAS SSD	PM1643	RVYD5	MZILT7T6HMLA0D3	DSF8	D560/F, E560F, E665/F, P570F, V570F, G560/F
7.68TB Samsung RI SAS SSD	PM1643a	84C40	MZILT7T6HALA0D3	DSA3	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
7.68TB Seagate RI VSAS SSD	Lange	2PKRH	XS7680SE70074	EC16	D560/F, E560/F, E665/F, P570/F, V570/F, G560/F, P675F
7.68TB Seagate RI VSAS SSD	Lange BP	5KW0F	XS7680SE70154	4D0B	E560F, P570F, V570F, G560F, D560F, E665F, P675F
7.68TB Seagate RI SAS SSD	Lange BP	0MK61	XS7680SE70114	3D01	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
7.68TB Seagate RI VSAS SSD (SED)	Lange BP	2THYF	XS7680SE70134	4S0B	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
7.68TB Toshiba RI vSAS SSD	RM5	5XD2F	KRM5XRUG7T68	B707	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
7.68TB Toshiba RI SAS SSD	PM5	GT7GT	KPM5XRUG7T68	B01C	E460/F, P470/F, V470/F, D560/F, E560/F, E665/F, P570/F, V570/F, G560/F, P675F
7.68TB KIOXIA RI SAS SSD	PM6	PD02Y	KPM6XRUG7T68	BA08	E560F, P570F, V570F, G560F, E665F, D560F, P675F
7.68TB KIOXIA RI VSAS SSD (SED)	RM6	5MHY8	KRM6VRUG7T68	BJ02	E660F, P670F, E560F, P570F, V570F, G560F, D560F, E665F, P675F, V670F
7.68TB Western Digital MU SAS SSD	BC Quantum	KD9W7	WUSTVA176BSS200	G101	D560F, E560F, E665F, P570F, V570F, G560/F, P675F
Capacity SATA SSD					
1.92TB Intel RI SATA SSD	S4500	XCN15	SSDSC2KB019T7R	DL56	E460F, P470F, V470F, D560/F, E560F, E665/F, P570F, V570F, G560/F
1.92TB Intel RI SATA SSD	S4510	C6K76	SSDSC2KB019T8R	DL63	E460/F, P470/F, V470/F, D560/F, E560F, E665/F, P570F, V570F, G560, P675F

Component	Family	Part Number	Model	Min Rev	Supported Platforms
1.92TB Intel RI SATA SSD	S4520	VYYW8	SSDSC2KB019TZR	DL70	E560F, P570F, V570F, G560F, P675F, E665F, D560F
1.92TB Micron RI SATA SSD	5200	VJ36D	MTFDDAK1T9TDD	F000	D560/F, E560F, E665/F, P570F, V570F, G560/F
1.92TB Micron RI SATA SSD	5300	GYGVV	MTFDDAK1T9TDS	J004	D560/F, E560/F, E665/F, P570/F, V570/F, G560/F, P675F
1.92TB Samsung RI SATA SSD EOL	PM863a	9W12R	MZ7LM1T9HJMJP0D3	GC57	E460F, P470F, V470F E560F, P570F, V570F, G560/F
1.92TB Samsung RI SATA SSD	PM883	Y24T6	MZ7LH1T9HMLT0D3	HE56	E460/F, P470/F, V470/F, D560/F, E560F, E665/F, P570F, V570F, G560
1.92TB Samsung RI SATA SSD	PM883a	9F9Y6	MZ7LH1T9HALT0D3	HG56	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
1.92TB Samsung RI SATA SSD	PM893	0KYP4	MZ7L31T9HBLT00AD3	HJ53	E560F, P570F, V570F, G560F, D560F, E665F, P675F
1.92TB SKHynix RI SATA SSD	SE4011	0XMV9	HFS1T9G32FEH-7A10A	DE07	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
1.92TB Toshiba RI SATA SSD	HK6	919J7	KHK6YRSE1T92	DBC4	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
3.84TB Intel RI SATA SSD	S4500	3RRN8	SSDSC2KB038T7R	DL56	E460F, P470F, V470F, D560/F, E560F, E665/F, P570F, V570F, G560/F
3.84TB Intel RI SATA SSD	S4510	1RHK2	SSDSC2KB038T8R	DL63	E460/F, P470/F, V470/F, D560/F, E560F, E665/F, V570F, G560, P675F
3.84TB Intel RI SATA SSD	S4520	WNPN1	SSDSC2KB038TZR	DL70	E560F, P570F, V570F, G560F, P675F, E665F, D560F
3.84TB Micron RI SATA SSD	5300	4H1RX	MTFDDAK3T8TDT	J404	D560F, E560F, E665F, P570F, V570F, G560/F, P675F
3.84TB Samsung RI SATA SSD EOL	PM863a	9Y3HD	MZ7LM3T8HMLP0D3	GC57	E460F, P470F, V470F, E560F, P570F, V570F, G560/F
3.84TB Samsung RI SATA SSD	PM883	FYP5F	MZ7LH3T8HMLT0D3	HE56	E460/F, P470/F, V470/F, D560/F, E560F, E665/F, P570F, V570F, G560

Component	Family	Part Number	Model	Min Rev	Supported Platforms
3.84TB Samsung RI SATA SSD	PM883a	5TVXD	MZ7LH3T8HALT000D3/ MZ7LH3T8HALT00AD3	HG56	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
3.84TB Samsung RI SATA SSD	PM893	GCN5W	MZ7L33T8HBLT00AD3	HJ53	E560F, P570F, V570F, G560F, D560F, E665F, P675F
3.84TB SKHynix RI SATA SSD	SE4011	D6C0R	HFS3T8G32FEH-7410A	DE07	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
3.84TB Toshiba RI SATA SSD	HK6	8PYG5	KHK6YRSE3T84	DBC4	D560/F, E560F, E665/F, P570F, V570F, G560/F, P675F
Capacity SAS HDD					
1.2TB 10K HGST SAS HDD 2.5" EOL	Cobra F	9XNF6/0KV02	HUC101812CSS204/HUC101812CSS200	FJ23/ FU29	E460, P470, V470, S470 E560, P570, V570, S570, G560
1.2TB 10K Toshiba SAS HDD 2.5" EOL	AL 14SE Lite	89D42/3K30N	AL14SEB120N/AL14SEB120NY	DM06/EA01	E460, P470, V470, S470 E560, P570, V570, S570, G560
1.2TB 10K Toshiba SAS HDD 2.5"	AL 15SE	01M0D	AL15SEB120NY	EF03	E460, P470, V470, S470 D560, E560, E665, P570, V570, S570, G560
1.8TB 10K Toshiba SAS HDD 2.5" EOL	AL 15SE	0WRRF	AL15SEB18EQY	EF03	D560, E560, E665, V570, S570, G560
2.4TB 10K Toshiba SAS HDD 2.5"	AL 15SE	F9NWJ	AL15SEB24EQY	EF03	D560, E560, E665, V570, S570, G560
1.2TB 10K Seagate SAS HDD 2.5" EOL	Thunderbolt	WXPCX/FR6W6	ST1200MM0088/ST1200MM0198	TT31 / UT71	E460, P470, V470, S470 E560, P570, V570, S570, G560
1.2TB 10K Seagate SAS HDD 2.5"	Skybolt	G2G54	ST1200MM0099	ST31	E460, P470, V470, S470 D560, E560, E665, P570, V570, S570, G560
1.8TB 10K Seagate SAS HDD 2.5"	Skybolt	JY57X	DL1800MM0159	ST51	D560, E560, E665, P570, V570, G560
2.4TB 10K Seagate SAS HDD 2.5"	Skybolt	RWR8F	DL2400MM0159	ST51	D560, E560, E665, P570, V570, G560
2TB 7.2K Seagate NLSAS HDD 2.5" EOL	Avenger	FVX7C/TMVN7	ST2000NX0433 EOL/ ST2000NX0463	NS02/ NT31	E460, P470, V470 E560, P570, V570, G560
4TB 7.2K KIOXIA SAS HDD	MG08SD	FN2YX	MG08SDA400NY	EK04	S570

Component	Family	Part Number	Model	Min Rev	Supported Platforms
4TB 7.2K Seagate NLSAS HDD 3.5" EOL	Makara BP	YXG4K/5JH5X	ST4000NM0025 EOL/ST4000NM0295	DS04/ DT31	S470 S570
4TB 7.2K Seagate SAS HDD 3.5"	Cimarron	KRM6X	ST4000NM017A	CSJ3	S570
4TB 7.2K Toshiba NLSAS HDD 3.5"	Tomcat R	0F9W8 1MVT	MG04SCA40EN/MG04SCA40ENY	DS07/ EG03	S470 S570
4TB 7.2K HGST NLSAS HDD 3.5" EOL	Aries K Plus	TX8WW/X4FKY	HUS726040ALS214/HUS726040ALS210	KJ03/ KU27	S470 S570
4TB 7.2k HGST NLSAS HDD 3.5"	Vela-A	NT1X2	HUS726T4TALS200	PU01	S570
8TB 7.2K Seagate SAS HDD 3.5"	Makara Plus	VFP4M	ST8000NM0185	PT54	S570
8TB 7.2K Seagate SAS HDD 3.5"	Cimarron	0N660	ST8000NM014A	CSL7	S570
8TB 7.2K Toshiba SAS HDD 3.5"	MG06	FV725	MG06SCA800EY	EH07	S570
8TB 7.2K HGST SAS HDD 3.5"	Vela AP	44YFV	HUS728T8TAL5200	RS04	S570
12TB 7.2K Seagate SAS HDD 3.5"	Evans	M1C0T	ST12000NM006J	PSL9	S570

13 Power Supplies

Component	Platforms	Rev	PE Release Date
Delta 750W	E560/F	00.24.7D	9/26/17
Delta 550W	E665/F/N	00.0C.7D	9/26/17
Delta 600W	D560/F	00.0C.14	3/27/20
Delta 700W	E665/F/N	00.04.0C	12/08/21
Emerson 750W	E560/F	00.1B.53	9/26/17
LiteOn 550W	E665/F/N	00.30.47 00.31.49	9/26/17 2/18/19
LiteOn 750W	E560/F	00.23.32	9/26/17
Delta 1100W	E560/F, P570/F, V570/F, S570, P675F/N	00.1D.7D 00.1D.82	9/26/17 8/1/19
LiteOn 1100W	E560/F, P570/F, V570/F, S570, P675F/N	00.23.32 00.24.32	9/26/17 9/5/19
Emerson 1100W 48VDC	E560/F, P570/F, V570/F, S570	04.08.24 04.10.26	9/26/17 11/8/19
Delta 1100W 380 HVDC	E560/F/N, P570/F, S570	00.14.8A	12/12/17
Delta 1600W	P570/F, S570, P580N, V570/F	00.3D.67 00.3D.70	9/26/17 3/21/18
Delta 2000W	P570/F, V570/F, S570, G560/F, P580N	00.11.1A 00.1D.36	9/26/17 3/7/19
Artesyn 2000W	G560/F, P570/F, V570/F, S570, P580N	00.1C.53 00.21.61 00.32.75	9/26/17 3/21/18 3/7/19
Artesyn 2400W	P580N	00.2A.72	9/9/19
Delta 2400W	G560/F, P580N	00.20.28 00.29.2A	9/26/17 4/9/18

14 Supported switches

This section provides information about the supported switches by VxRail.

Switches must meet the following requirements for VxRail 4.7 and above:

- Support IPv4 unicast
- Support IPv6 multicast

Switches must meet the following requirements prior to VxRail 4.7:

- Support IPv4 multicast
- Support IPv6 multicast

In addition, the following switch features are recommended:

- Enable IGMP snooping and querier.
- Enable MLD snooping and querier

15 Getting help

15.1 Contact Dell Technologies

You can link your Online Support account with VxRail Manager and access support resources without having to log in separately.

NOTE: If you plan to set up Secure Remote Services (Secure Remote Services), you have to link your Online Support account to VxRail Manager under the same ID or it may not work properly.

15.2 Register for online support

You can create an Online Support account to access support resources such as:

- Register your VxRail.
- Obtain product license files and software updates.
- Download VxRail Series product documentation.
- Download the SolVe Desktop Procedure Generator.
- Browse the VxRail Series community and support information.
- Link your support account for access to resources from within VxRail Manager.

To register for online support:

1. Go to [Dell Technologies Support](#).
2. Click **Register** here.
3. Fill in the required information.

Support will send you a confirmation email, typically within 48 hours.

15.3 Access support resources

You can access support resources for your VxRail by one of the following:

- [VxRail Support](#)
- [Dell Technologies Support](#)
- <https://solve.dell.com/solve/home>

NOTE: Additional VxRail Series information is available through the SolVe desktop tool. SolVe includes step-by-step procedures for replacing certain hardware components, as well as other tasks.

A Appendix – Disk Group configuration rules – E/P/V470/F, S470

Rule: We do not support mixing SAS/SATA SSD drives in the same disk group.

Table 9 Disk Group Configuration Rules

Appliance	Quantity of Cache SSD	Quantity of Capacity Devices
E460/E460F	1	1 to 4
	2	2 to 8
P470/P470F	1	1 to 3
	2	2 to 6
	3	3 to 9
	4	4 to 12
V470/V470F	1	1 to 3
	2	2 to 6
	3	3 to 9
	4	4 to 12
S470	1	1 to 6
	2	2 to 12

A.1 Disk slot mapping – E460/F, P/V470/F, S470

VxRail is delivered from the factory with cache and capacity disks pre-populated in specific disk slots in the chassis. The slot location of the cache and capacity disks is important to the operation of VxRail and should not be altered unless directed by a Dell Technologies service professional.

For the drive slot mapping tables in this section, use the following legend:

C= Cache SSD

D= Capacity SSD or HDD

Table 10 Drive population rules for the VxRail E460 and E460F

Cache	Data	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9
1	1	C	D								
1	2	C	D	D							
1	3	C	D	D	D						
1	4	C	D	D	D	D					
2	2	C	D				C	D			
2	3	C	D	D			C	D			
2	4	C	D	D			C	D	D		
2	5	C	D	D	D		C	D	D		
2	6	C	D	D	D		C	D	D	D	
2	7	C	D	D	D	D	C	D	D	D	
2	8	C	D	D	D	D	C	D	D	D	D

Table 11 Drive population rules for the P470/P470F/V470/V470F

Cache	Data	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15
1	1	C	D														
1	2	C	D	D													
1	3	C	D	D	D												
2	2	C	D			C	D										
2	3	C	D	D		C	D										
2	4	C	D	D		C	D	D									
2	5	C	D	D	D	C	D	D									
2	6	C	D	D	D	C	D	D	D								
3	3	C	D			C	D			C	D						
3	4	C	D	D		C	D			C	D						
3	5	C	D	D		C	D	D		C	D						
3	6	C	D	D		C	D	D		C	D	D					
3	7	C	D	D	D	C	D	D		C	D	D					
3	8	C	D	D	D	C	D	D	D	C	D	D					
3	9	C	D	D	D	C	D	D	D	C	D	D	D				
4	4	C	D			C	D			C	D			C	D		
4	5	C	D	D		C	D			C	D			C	D		
4	6	C	D	D		C	D	D		C	D			C	D		
4	7	C	D	D		C	D	D		C	D	D		C	D		
4	8	C	D	D		C	D	D		C	D	D		C	D	D	
4	9	C	D	D	D	C	D	D		C	D	D		C	D	D	

Cache	Data	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15
4	10	C	D	D	D	C	D	D	D	C	D	D		C	D	D	
4	11	C	D	D	D	C	D	D	D	C	D	D	D	C	D	D	
4	12	C	D	D	D	C	D	D	D	C	D	D	D	C	D	D	D

Table 12 Drive population rules for the S470

Cache	Data	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13
1	1	D												C	
1	2	D	D											C	
1	3	D	D	D										C	
1	4	D	D	D	D									C	
1	5	D	D	D	D	D								C	
1	6	D	D	D	D	D	D							C	
2	2	D						D						C	C
2	3	D	D					D						C	C
2	4	D	D					D	D					C	C
2	5	D	D	D				D	D					C	C
2	6	D	D	D				D	D	D				C	C
2	7	D	D	D	D			D	D	D				C	C
2	8	D	D	D	D			D	D	D	D			C	C
2	9	D	D	D	D	D		D	D	D	D			C	C
2	10	D	D	D	D	D		D	D	D	D	D		C	C
2	11	D	D	D	D	D	D	D	D	D	D	D		C	C
2	12	D	D	D	D	D	D	D	D	D	D	D	D	C	C

B Appendix – Disk Group Configuration Rules – D560/F, E560/F/N, G560/F, P570/F, V570/F, S570, P580N

Rule: We do not support mixing SAS/SATA/NVMe SSD drives in the same disk group.

Rule: We do not support mixing capacity HDDs with capacity SSDs in the same disk group.

Rule: For initial installation, we require all capacity disks to be of the same size in the same disk group.

Rule: Different disk groups can have different cache drive sizes and types within a node or server.

Rule: Different disk groups can have different capacity drive sizes and type within a node or server.

Table 13 Disk Slot Placement Rules – 14th Generation

Appliance	Quantity of Cache SSD	Quantity of Capacity Devices
G560/G560F	1 (per node, max of 4 nodes)	1 to 5 (per node, max of 4 nodes)
D560/D560F	1	1 to 3
	2	2 to 6
E560/E560F/ E560N	1	1 to 4
	2	2 to 8
P570/ P570F	1	1 to 5
	2	2 to 10
	3	3 to 15
	4	4 to 20
V570/ V570F	1	1 to 5
	2	2 to 10
	3	3 to 15
	4	4 to 20
S570	1	1 to 6
	2	2 to 12
P580N	1	1 to 5
	2	2 to 10
	3	3 to 15
	4	4 to 20

Rule: For releases from 4.7.530 and later

- When replacing a drive in a disk group, a larger capacity drive can now be used.
- When expanding a disk group, larger capacity drives than currently exist in a disk group can be used.

B.1 Disk Slot Mapping – D560/F, E560/F/N, G560/F, P570/F, V570/F, S570, P580N

VxRail is delivered from the factory with cache and capacity disks pre-populated in specific disk slots in the chassis. The slot location of the cache and capacity disks is important to the operation of VxRail and should not be altered unless directed by a Dell Technologies service professional.

For the drive slot mapping tables in this section, use the following legend:

C= Cache SSD

CN = Cache NVMe

D= Capacity SSD or HDD

DN= Capacity NVMe

Table 14 E560/E560F

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9
1	1	D								C, CN	
1	2	D	D							C, CN	
1	3	D	D	D						C, CN	
1	4	D	D	D	D					C, CN	
2	2	D				D				C, CN	C, CN
2	3	D	D			D				C, CN	C, CN
2	4	D	D			D	D			C, CN	C, CN
2	5	D	D	D		D	D			C, CN	C, CN
2	6	D	D	D		D	D	D		C, CN	C, CN
2	7	D	D	D	D	D	D	D		C, CN	C, CN
2	8	D	D	D	D	D	D	D	D	C, CN	C, CN

Table 15 E560N

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9
1	1	DN								CN	
1	2	DN	DN							CN	
1	3	DN	DN	DN						CN	
1	4	DN	DN	DN	DN					CN	
2	2	DN				DN				CN	CN
2	3	DN	DN			DN				CN	CN
2	4	DN	DN			DN	DN			CN	CN
2	5	DN	DN	DN		DN	DN			CN	CN
2	6	DN	DN	DN		DN	DN	DN		CN	CN
2	7	DN	DN	DN	DN	DN	DN	DN		CN	CN
2	8	DN	DN	DN	DN	DN	DN	DN	DN	CN	CN

Table 16 P570/P570F

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
1	1	D																				C, CN			
1	2	D	D																			C, CN			
1	3	D	D	D																		C, CN			
1	4	D	D	D	D																	C, CN			
1	5	D	D	D	D	D																C, CN			
2	2	D					D															C, CN	C, CN		
2	3	D	D				D															C, CN	C, CN		
2	4	D	D				D	D														C, CN	C, CN		
2	5	D	D	D			D	D														C, CN	C, CN		
2	6	D	D	D			D	D	D													C, CN	C, CN		
2	7	D	D	D	D		D	D	D													C, CN	C, CN		
2	8	D	D	D	D		D	D	D	D												C, CN	C, CN		
2	9	D	D	D	D	D	D	D	D	D												C, CN	C, CN		
2	10	D	D	D	D	D	D	D	D	D	D											C, CN	C, CN		
3	3	D					D					D										C, CN	C, CN	C, CN	
3	4	D	D				D					D										C, CN	C, CN	C, CN	
3	5	D	D				D	D				D										C, CN	C, CN	C, CN	
3	6	D	D				D	D				D	D									C, CN	C, CN	C, CN	
3	7	D	D	D			D	D				D	D									C, CN	C, CN	C, CN	
3	8	D	D	D			D	D	D			D	D									C, CN	C, CN	C, CN	
3	9	D	D	D			D	D	D			D	D	D								C, CN	C, CN	C, CN	
3	10	D	D	D	D		D	D	D			D	D	D								C, CN	C, CN	C, CN	
3	11	D	D	D	D		D	D	D	D		D	D	D								C, CN	C, CN	C, CN	
3	12	D	D	D	D		D	D	D	D		D	D	D	D							C, CN	C, CN	C, CN	
3	13	D	D	D	D	D	D	D	D	D		D	D	D	D							C, CN	C, CN	C, CN	
3	14	D	D	D	D	D	D	D	D	D	D	D	D	D	D							C, CN	C, CN	C, CN	
3	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D						C, CN	C, CN	C, CN	
4	4	D					D					D					D					C, CN	C, CN	C, CN	C, CN
4	5	D	D				D					D					D					C, CN	C, CN	C, CN	C, CN
4	6	D	D				D	D				D					D					C, CN	C, CN	C, CN	C, CN
4	7	D	D				D	D				D	D				D					C, CN	C, CN	C, CN	C, CN
4	8	D	D				D	D				D	D				D	D				C, CN	C, CN	C, CN	C, CN
4	9	D	D	D			D	D				D	D				D	D				C, CN	C, CN	C, CN	C, CN
4	10	D	D	D			D	D	D			D	D				D	D				C, CN	C, CN	C, CN	C, CN
4	11	D	D	D			D	D	D			D	D	D			D	D				C, CN	C, CN	C, CN	C, CN
4	12	D	D	D			D	D	D			D	D	D			D	D	D			C, CN	C, CN	C, CN	C, CN
4	13	D	D	D	D		D	D	D			D	D	D			D	D	D			C, CN	C, CN	C, CN	C, CN
4	14	D	D	D	D		D	D	D	D		D	D	D			D	D	D			C, CN	C, CN	C, CN	C, CN
4	15	D	D	D	D		D	D	D	D		D	D	D	D		D	D	D			C, CN	C, CN	C, CN	C, CN
4	16	D	D	D	D		D	D	D	D		D	D	D	D		D	D	D	D		C, CN	C, CN	C, CN	C, CN

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
4	17	D	D	D	D	D	D	D	D	D		D	D	D	D		D	D	D	D		C, CN	C, CN	C, CN	C, CN
4	18	D	D	D	D	D	D	D	D	D	D	D	D	D	D		D	D	D	D		C, CN	C, CN	C, CN	C, CN
4	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		C, CN	C, CN	C, CN	C, CN
4	20	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C, CN	C, CN	C, CN	C, CN

Table 17 V570/V570F

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
1	1	D																				C			
1	2	D	D																			C			
1	3	D	D	D																		C			
1	4	D	D	D	D																	C			
1	5	D	D	D	D	D																C			
2	2	D					D															C	C		
2	3	D	D				D															C	C		
2	4	D	D				D	D														C	C		
2	5	D	D	D			D	D														C	C		
2	6	D	D	D			D	D	D													C	C		
2	7	D	D	D	D		D	D	D													C	C		
2	8	D	D	D	D		D	D	D	D												C	C		
2	9	D	D	D	D	D	D	D	D	D												C	C		
2	10	D	D	D	D	D	D	D	D	D	D											C	C		
3	3	D					D					D										C	C	C	
3	4	D	D				D					D										C	C	C	
3	5	D	D				D	D				D										C	C	C	
3	6	D	D				D	D				D	D									C	C	C	
3	7	D	D	D			D	D				D	D									C	C	C	
3	8	D	D	D			D	D	D			D	D									C	C	C	
3	9	D	D	D			D	D	D			D	D	D								C	C	C	
3	10	D	D	D	D		D	D	D			D	D	D								C	C	C	
3	11	D	D	D	D		D	D	D	D		D	D	D								C	C	C	
3	12	D	D	D	D		D	D	D	D		D	D	D	D							C	C	C	
3	13	D	D	D	D	D	D	D	D	D		D	D	D	D							C	C	C	
3	14	D	D	D	D	D	D	D	D	D	D	D	D	D	D							C	C	C	
3	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D						C	C	C	
4	4	D					D					D					D					C	C	C	C
4	5	D	D				D					D					D					C	C	C	C
4	6	D	D				D	D				D					D					C	C	C	C
4	7	D	D				D	D				D	D				D					C	C	C	C
4	8	D	D				D	D				D	D				D	D				C	C	C	C
4	9	D	D	D			D	D				D	D				D	D				C	C	C	C
4	10	D	D	D			D	D	D			D	D				D	D				C	C	C	C
4	11	D	D	D			D	D	D			D	D	D			D	D				C	C	C	C
4	12	D	D	D			D	D	D			D	D	D			D	D	D			C	C	C	C
4	13	D	D	D	D		D	D	D			D	D	D			D	D	D			C	C	C	C
4	14	D	D	D	D		D	D	D	D		D	D	D			D	D	D			C	C	C	C

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
4	15	D	D	D	D		D	D	D	D		D	D	D	D		D	D	D			C	C	C	C
4	16	D	D	D	D		D	D	D	D		D	D	D	D		D	D	D	D		C	C	C	C
4	17	D	D	D	D	D	D	D	D	D		D	D	D	D		D	D	D	D		C	C	C	C
4	18	D	D	D	D	D	D	D	D	D	D	D	D	D	D		D	D	D	D		C	C	C	C
4	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		C	C	C	C
4	20	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C

Table 18 S570

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13
1	1	D												C	
1	2	D	D											C	
1	3	D	D	D										C	
1	4	D	D	D	D									C	
1	5	D	D	D	D	D								C	
1	6	D	D	D	D	D	D							C	
2	2	D						D						C	C
2	3	D	D					D						C	C
2	4	D	D					D	D					C	C
2	5	D	D	D				D	D					C	C
2	6	D	D	D				D	D	D				C	C
2	7	D	D	D	D			D	D	D				C	C
2	8	D	D	D	D			D	D	D	D			C	C
2	9	D	D	D	D	D		D	D	D	D			C	C
2	10	D	D	D	D	D		D	D	D	D	D		C	C
2	11	D	D	D	D	D	D	D	D	D	D	D		C	C
2	12	D	D	D	D	D	D	D	D	D	D	D	D	C	C

Table 19 G560/G560F

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23	
1	1	C, CN	D																							
1	2	C, CN	D	D																						
1	3	C, CN	D	D	D																					
1	4	C, CN	D	D	D	D																				
1	5	C, CN	D	D	D	D	D																			
2	2	C, CN	D					C, CN	D																	
2	3	C, CN	D	D				C, CN	D																	
2	4	C, CN	D	D				C, CN	D	D																
2	5	C, CN	D	D	D			C, CN	D	D																
2	6	C, CN	D	D	D			C, CN	D	D	D															
2	7	C, CN	D	D	D	D		C, CN	D	D	D															
2	8	C, CN	D	D	D	D		C, CN	D	D	D	D														
2	9	C, CN	D	D	D	D	D	C, CN	D	D	D	D														
2	10	C, CN	D	D	D	D	D	C, CN	D	D	D	D	D													
3	3	C, CN	D					C, CN	D					C, CN	D											
3	4	C, CN	D	D				C, CN	D					C, CN	D											
3	5	C, CN	D	D				C, CN	D	D				C, CN	D											
3	6	C, CN	D	D				C, CN	D	D				C, CN	D	D										
3	7	C, CN	D	D	D			C, CN	D	D				C, CN	D	D										
3	8	C, CN	D	D	D			C, CN	D	D	D			C, CN	D	D										
3	9	C, CN	D	D	D			C, CN	D	D	D			C, CN	D	D	D									
3	10	C, CN	D	D	D	D		C, CN	D	D	D			C, CN	D	D	D									
3	11	C, CN	D	D	D	D		C, CN	D	D	D	D		C, CN	D	D	D									
3	12	C, CN	D	D	D	D		C, CN	D	D	D	D		C, CN	D	D	D	D								
3	13	C, CN	D	D	D	D	D	C, CN	D	D	D	D		C, CN	D	D	D	D								
3	14	C, CN	D	D	D	D	D	C, CN	D	D	D	D	D	C, CN	D	D	D	D								
3	15	C, CN	D	D	D	D	D	C, CN	D	D	D	D	D	C, CN	D	D	D	D	D							
4	4	C, CN	D					C, CN	D					C, CN	D					C, CN	D					
4	5	C, CN	D	D				C, CN	D					C, CN	D					C, CN	D					
4	6	C, CN	D	D				C, CN	D	D				C, CN	D					C, CN	D					
4	7	C, CN	D	D				C, CN	D	D				C, CN	D	D				C, CN	D					
4	8	C, CN	D	D				C, CN	D	D				C, CN	D	D				C, CN	D	D				
4	9	C, CN	D	D	D			C, CN	D	D				C, CN	D	D				C, CN	D	D				
4	10	C, CN	D	D	D			C, CN	D	D	D			C, CN	D	D				C, CN	D	D				
4	11	C, CN	D	D	D			C, CN	D	D	D			C, CN	D	D	D			C, CN	D					
4	12	C, CN	D	D	D			C	D	D	D			C	D	D	D			C, CN	D	D	D			
4	13	C, CN	D	D	D	D		C, CN	D	D	D			C, CN	D	D	D			C, CN	D	D	D			
4	14	C, CN	D	D	D	D		C, CN	D	D	D	D		C, CN	D	D	D			C, CN	D	D	D			
4	15	C, CN	D	D	D	D		C, CN	D	D	D	D		C, CN	D	D	D	D		C, CN	D	D	D			
4	16	C, CN	D	D	D	D		C, CN	D	D	D	D		C, CN	D	D	D	D		C, CN	D	D	D	D		

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
4	17	C, CN	D	D	D	D	D	C, CN	D	D	D	D		C, CN	D	D	D	D		C, CN	D	D	D	D	
4	18	C, CN	D	D	D	D	D	C, CN	D	D	D	D	D	C, CN	D	D	D	D		C, CN	D	D	D	D	
4	19	C, CN	D	D	D	D	D	C, CN	D	D	D	D	D	C, CN	D	D	D	D	D	C, CN	D	D	D	D	
4	20	C, CN	D	D	D	D	D	C, CN	D	D	D	D	D	C	D	D	D	D	D	C, CN	D	D	D	D	D

Table 20 P580N

Cache (C)	Data (D)	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay
		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
		Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot
		0	1	2	3	4	5	6	7	8	9	10	11	0	1	2	3	4	5	6	7	8	9	10	11
1	1	DN																							CN
1	2	DN	DN																						CN
1	3	DN	DN	DN																					CN
1	4	DN	DN	DN	DN																				CN
1	5	DN	DN	DN	DN	DN																			CN
2	2	DN					DN																		CN CN
2	3	DN	DN				DN																		CN CN
2	4	DN	DN				DN	DN																	CN CN
2	5	DN	DN	DN			DN	DN																	CN CN
2	6	DN	DN	DN			DN	DN	DN																CN CN
2	7	DN	DN	DN	DN		DN	DN	DN																CN CN
2	8	DN	DN	DN	DN		DN	DN	DN	DN															CN CN
2	9	DN	DN	DN	DN	DN	DN	DN	DN	DN															CN CN
2	10	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN														CN CN
3	3	DN					DN					DN													CN CN CN
3	4	DN	DN				DN					DN													CN CN CN
3	5	DN	DN				DN	DN				DN													CN CN CN
3	6	DN	DN				DN	DN				DN	DN												CN CN CN
3	7	DN	DN	DN			DN	DN				DN	DN												CN CN CN
3	8	DN	DN	DN			DN	DN	DN			DN	DN												CN CN CN
3	9	DN	DN	DN			DN	DN	DN			DN	DN	DN											CN CN CN
3	10	DN	DN	DN	DN		DN	DN	DN			DN	DN	DN											CN CN CN
3	11	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN											CN CN CN
3	12	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN										CN CN CN
3	13	DN	DN	DN	DN	DN	DN	DN	DN	DN		DN	DN	DN	DN										CN CN CN
3	14	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN										CN CN CN
3	15	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN									CN CN CN

Cache (C)	Data (D)	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay
		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
		Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot
		0	1	2	3	4	5	6	7	8	9	10	11	0	1	2	3	4	5	6	7	8	9	10	11
4	4	DN					DN					DN					DN					CN	CN	CN	CN
4	5	DN	DN				DN					DN					DN					CN	CN	CN	CN
4	6	DN	DN				DN	DN				DN					DN					CN	CN	CN	CN
4	7	DN	DN				DN	DN				DN	DN				DN					CN	CN	CN	CN
4	8	DN	DN				DN	DN				DN	DN				DN	DN				CN	CN	CN	CN
4	9	DN	DN	DN			DN	DN				DN	DN				DN	DN				CN	CN	CN	CN
4	10	DN	DN	DN			DN	DN	DN			DN	DN				DN	DN				CN	CN	CN	CN
4	11	DN	DN	DN			DN	DN	DN			DN	DN	DN			DN	DN				CN	CN	CN	CN
4	12	DN	DN	DN			DN	DN	DN			DN	DN	DN			DN	DN	DN			CN	CN	CN	CN
4	13	DN	DN	DN	DN		DN	DN	DN			DN	DN	DN			DN	DN	DN			CN	CN	CN	CN
4	14	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN			DN	DN	DN			CN	CN	CN	CN
4	15	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN			CN	CN	CN	CN
4	16	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN		CN	CN	CN	CN
4	17	DN	DN	DN	DN	DN	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN		CN	CN	CN	CN
4	18	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN		DN	DN	DN	DN		CN	CN	CN	CN
4	19	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN		CN	CN	CN	CN
4	20	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	CN	CN	CN	CN

Table 21 D560/D560F

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7
1	1	D							C
1	2	D	D						C
1	3	D	D	D					C
2	2	D			D			C	C
2	3	D	D		D			C	C
2	4	D	D		D	D		C	C
2	5	D	D	D	D	D		C	C
2	6	D	D	D	D	D	D	C	C

C Appendix – Disk Group Configuration Rules – E665/F/N, P675F/N

Rule: We do not support mixing SAS/SATA/NVMe SSD drives in the same disk group.

Rule: We do not support mixing capacity HDDs with capacity SSDs in the same disk group

Rule: We require all capacity disks to be of the same size in the same disk group.

Rule: Different disk groups can have different cache drive sizes and types within a node/server

Rule: Different disk groups can have different capacity drive sizes and types within a node/server

Table 22 Disk Slot Placement Rules – E665, E665F, E665N, P675F, P675N

VxRail	Quantity of Cache SSD	Quantity of Capacity Devices
E665/E665F	1	1 to 3
	2	2 to 6
E665N	1	1 to 4
	2	2 to 8
P675F	1	1 to 5
	2	2 to 10
	3	3 to 15
	4	4 to 20
P675N	1	1 to 5
	2	2 to 10
	3	3 to 15
	4	4 to 20

Rule: For releases from 4.7.530 and later

- When replacing a drive in a disk group, a larger capacity drive can now be used.
- When expanding a disk group, larger capacity drives than currently exist in a disk group can be used.

C.1 Disk Slot Mapping – E665, E665F, E665N, P675F, P675N

VxRail models are delivered from the factory with cache and capacity disks pre-populated in specific disk slots in the chassis. The slot location of the cache and capacity disks is important to the operation of your VxRail and should not be altered unless directed by a Dell Technologies service professional.

For the drive slot mapping tables in this section, use the following legend:

C= Cache SSD

CN = Cache NVMe

D= Capacity SSD or HDD

DN= Capacity NVMe

Table 23 E665, E665F

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7
1	1	D							C
1	2	D	D						C
1	3	D	D	D					C
2	2	D			D			C	C
2	3	D	D		D			C	C
2	4	D	D		D	D		C	C
2	5	D	D	D	D	D		C	C
2	6	D	D	D	D	D	D	C	C

Table 24 E665N

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9
1	1	DN									CN
1	2	DN	DN								CN
1	3	DN	DN	DN							CN
1	4	DN	DN	DN	DN						CN
2	2	DN				DN				CN	CN
2	3	DN	DN			DN				CN	CN
2	4	DN	DN			DN	DN			CN	CN
2	5	DN	DN	DN		DN	DN			CN	CN
2	6	DN	DN	DN		DN	DN	DN		CN	CN
2	7	DN	DN	DN	DN	DN	DN	DN		CN	CN
2	8	DN	DN	DN	DN	DN	DN	DN	DN	CN	CN

Table 25 P675F

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
1	1	D																							C
1	2	D	D																						C
1	3	D	D	D																					C
1	4	D	D	D	D																				C
1	5	D	D	D	D	D																			C
2	2	D					D																	C	C
2	3	D	D				D																	C	C
2	4	D	D				D	D																C	C
2	5	D	D	D			D	D																C	C
2	6	D	D	D			D	D	D															C	C
2	7	D	D	D	D		D	D	D	D														C	C
2	8	D	D	D	D		D	D	D	D														C	C
2	9	D	D	D	D	D	D	D	D	D														C	C
2	10	D	D	D	D	D	D	D	D	D	D													C	C
3	3	D					D					D											C	C	C
3	4	D	D				D					D											C	C	C
3	5	D	D				D	D				D											C	C	C
3	6	D	D				D	D				D	D										C	C	C
3	7	D	D	D			D	D				D	D										C	C	C
3	8	D	D	D			D	D	D			D	D										C	C	C
3	9	D	D	D			D	D	D			D	D	D									C	C	C
3	10	D	D	D	D		D	D	D			D	D	D									C	C	C
3	11	D	D	D	D		D	D	D	D		D	D	D									C	C	C
3	12	D	D	D	D		D	D	D	D		D	D	D	D								C	C	C
3	13	D	D	D	D	D	D	D	D	D		D	D	D	D								C	C	C
3	14	D	D	D	D	D	D	D	D	D	D	D	D	D	D								C	C	C
3	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D							C	C	C
4	4	D					D					D					D					C	C	C	C
4	5	D	D				D					D					D					C	C	C	C
4	6	D	D				D	D				D					D					C	C	C	C
4	7	D	D				D	D				D	D				D					C	C	C	C
4	8	D	D				D	D				D	D				D	D				C	C	C	C
4	9	D	D	D			D	D				D	D				D	D				C	C	C	C
4	10	D	D	D			D	D	D			D	D				D	D				C	C	C	C
4	11	D	D	D			D	D	D			D	D	D			D	D				C	C	C	C
4	12	D	D	D			D	D	D			D	D	D			D	D	D			C	C	C	C
4	13	D	D	D	D		D	D	D			D	D	D			D	D	D			C	C	C	C
4	14	D	D	D	D		D	D	D	D		D	D	D			D	D	D			C	C	C	C

Cache (C)	Data (D)	Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
4	15	D	D	D	D		D	D	D	D		D	D	D	D		D	D	D			C	C	C	C
4	16	D	D	D	D		D	D	D	D		D	D	D	D		D	D	D	D		C	C	C	C
4	17	D	D	D	D	D	D	D	D	D		D	D	D	D		D	D	D	D		C	C	C	C
4	18	D	D	D	D	D	D	D	D	D	D	D	D	D	D		D	D	D	D		C	C	C	C
4	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		C	C	C	C
4	20	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C

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Cache (C)	Data (D)	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	
		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	
		Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	
		0	1	2	3	4	5	6	7	8	9	10	11	0	1	2	3	4	5	6	7	8	9	10	11	
1	1	DN																							CN	
1	2	DN	DN																						CN	
1	3	DN	DN	DN																					CN	
1	4	DN	DN	DN	DN																				CN	
1	5	DN	DN	DN	DN	DN																			CN	
2	2	DN					DN																		CN	CN
2	3	DN	DN				DN																		CN	CN
2	4	DN	DN				DN	DN																	CN	CN
2	5	DN	DN	DN			DN	DN																	CN	CN
2	6	DN	DN	DN			DN	DN	DN																CN	CN
2	7	DN	DN	DN	DN		DN	DN	DN																CN	CN
2	8	DN	DN	DN	DN		DN	DN	DN	DN															CN	CN
2	9	DN	DN	DN	DN	DN	DN	DN	DN	DN															CN	CN
2	10	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN														CN	CN
3	3	DN					DN					DN												CN	CN	CN
3	4	DN	DN				DN					DN												CN	CN	CN
3	5	DN	DN				DN	DN				DN												CN	CN	CN
3	6	DN	DN				DN	DN				DN	DN											CN	CN	CN
3	7	DN	DN	DN			DN	DN				DN	DN											CN	CN	CN
3	8	DN	DN	DN			DN	DN	DN			DN	DN											CN	CN	CN
3	9	DN	DN	DN			DN	DN	DN			DN	DN	DN										CN	CN	CN
3	10	DN	DN	DN	DN		DN	DN	DN			DN	DN	DN										CN	CN	CN
3	11	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN										CN	CN	CN
3	12	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN									CN	CN	CN
3	13	DN	DN	DN	DN	DN	DN	DN	DN	DN		DN	DN	DN	DN									CN	CN	CN
3	14	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN									CN	CN	CN

Cache (C)	Data (D)	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay	Bay
		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
		Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot	Slot
		0	1	2	3	4	5	6	7	8	9	10	11	0	1	2	3	4	5	6	7	8	9	10	11
3	15	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN							CN	CN	CN
4	4	DN					DN					DN					DN						CN	CN	CN
4	5	DN	DN				DN					DN					DN						CN	CN	CN
4	6	DN	DN				DN	DN				DN					DN						CN	CN	CN
4	7	DN	DN				DN	DN				DN	DN				DN						CN	CN	CN
4	8	DN	DN				DN	DN				DN	DN				DN	DN					CN	CN	CN
4	9	DN	DN	DN			DN	DN				DN	DN				DN	DN					CN	CN	CN
4	10	DN	DN	DN			DN	DN	DN			DN	DN				DN	DN					CN	CN	CN
4	11	DN	DN	DN			DN	DN	DN			DN	DN	DN			DN	DN					CN	CN	CN
4	12	DN	DN	DN			DN	DN	DN			DN	DN	DN			DN	DN	DN				CN	CN	CN
4	13	DN	DN	DN	DN		DN	DN	DN			DN	DN	DN			DN	DN	DN				CN	CN	CN
4	14	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN			DN	DN	DN				CN	CN	CN
4	15	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN				CN	CN	CN
4	16	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN			CN	CN	CN
4	17	DN	DN	DN	DN	DN	DN	DN	DN	DN		DN	DN	DN	DN		DN	DN	DN	DN			CN	CN	CN
4	18	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN		DN	DN	DN	DN			CN	CN	CN
4	19	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN		CN	CN	CN
4	20	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	CN	CN	CN

D

Appendix – DC PMEM Layouts – E560F/N, P570F – 2 CPUs/Sockets

		CPU 0														CPU 1													
		iMC0														iMC1													
		Mode Support		Capacity (GB)		Channel 2		Channel 1		Channel 0		Channel 0		Channel 1		Channel 2		Channel 2		Channel 1		Channel 0		Channel 0		Channel 1		Channel 2	
Config #	# CPU	App Direct	Mem	DIMM	PMEM	A3	A9	A2	A8	A1	A7	A10	A4	A11	A5	A12	A6	B3	B9	B2	B8	B1	B7	B10	B4	B11	B5	B12	B6
113	2	Y		192	128	16GB		16GB		16GB	128GB		16GB		16GB		16GB	16GB		16GB		16GB			16GB		16GB		16GB
114	2	Y		192	256	16GB		16GB		16GB	128GB		16GB		16GB		16GB	16GB		16GB		16GB	128GB		16GB		16GB		16GB
115	2	Y	Y	128	512	128GB		16GB		16GB			16GB		16GB		128GB	128GB		16GB		16GB			16GB		16GB		128GB
116	2	Y		192	512	16GB		16GB		16GB	128GB	128GB	16GB		16GB		16GB	16GB		16GB		16GB	128GB	128GB	16GB		16GB		16GB
117	2	Y	Y	192	1024	16GB		16GB	128GB	16GB	128GB	128GB	16GB	128GB	16GB		16GB	16GB		16GB	128GB	16GB	128GB	128GB	16GB	128GB	16GB		16GB
118	2	Y	Y	192	1536	16GB	128GB	16GB	128GB	16GB	128GB	128GB	16GB	128GB	16GB	128GB	16GB	16GB	128GB	16GB	128GB	16GB	128GB	128GB	16GB	128GB	16GB	128GB	16GB
119	2	Y		384	128	32GB		32GB		32GB	128GB		32GB		32GB		32GB	32GB		32GB		32GB			32GB		32GB		32GB
120	2	Y		384	256	32GB		32GB		32GB	128GB		32GB		32GB		32GB	32GB		32GB		32GB	128GB		32GB		32GB		32GB
2	2	Y		384	512	32GB		32GB		32GB	128GB	128GB	32GB		32GB		32GB	32GB		32GB		32GB	128GB	128GB	32GB		32GB		32GB
3	2	Y		384	1024	32GB		32GB	128GB	32GB	128GB	128GB	32GB	128GB	32GB		32GB	32GB		32GB	128GB	32GB	128GB	128GB	32GB	128GB	32GB		32GB
4	2	Y	Y	384	1536	32GB	128GB	32GB	128GB	32GB	128GB	128GB	32GB	128GB	32GB	128GB	32GB	32GB	128GB	32GB	128GB	32GB	128GB		128GB	32GB	128GB	32GB	128GB
6	2	Y		768	512	64GB		64GB		64GB	128GB	128GB	64GB		64GB		64GB	64GB		64GB		64GB	128GB		128GB	64GB		64GB	64GB
7	2	Y		768	1024	64GB		64GB	128GB	64GB	128GB	128GB	64GB	128GB	64GB		64GB	64GB		64GB	128GB	64GB	128GB		128GB	64GB	128GB	64GB	64GB
8	2	Y		768	1536	64GB	128GB	64GB	128GB	64GB	128GB	128GB	64GB	128GB	64GB	128GB	64GB	64GB	128GB	64GB	128GB	64GB	128GB		128GB	64GB	128GB	64GB	128GB
12	2	Y		1536	1536	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB	128GB		128GB	128GB	128GB	128GB	128GB
121	2	Y	Y	192	2048	16GB		16GB	256GB	16GB	256GB	256GB	16GB	256GB	16GB		16GB	16GB		16GB	256GB	16GB	256GB		256GB	16GB	256GB	16GB	16GB
27	2	Y	Y	384	2048	32GB		32GB	256GB	32GB	256GB	256GB	32GB	256GB	32GB		32GB	32GB		32GB	256GB	32GB	256GB		256GB	32GB	256GB	32GB	32GB
28	2	Y	Y	384	3072	32GB	256GB	32GB	256GB	32GB	256GB	256GB	32GB	256GB	32GB	256GB	32GB	32GB	256GB	32GB	256GB	32GB	256GB		256GB	32GB	256GB	32GB	256GB
31	2	Y		768	2048	64GB		64GB	256GB	64GB	256GB	256GB	64GB	256GB	64GB		64GB	64GB		64GB	256GB	64GB	256GB		256GB	64GB	256GB	64GB	64GB
32	2	Y	Y	768	3072	64GB	256GB	64GB	256GB	64GB	256GB	256GB	64GB	256GB	64GB	256GB	64GB	64GB	256GB	64GB	256GB	64GB	256GB		256GB	64GB	256GB	64GB	256GB
36	2	Y		1536	3072	128GB	256GB	128GB	256GB	128GB	256GB	256GB	128GB	256GB	128GB	256GB	128GB	128GB	256GB	128GB	256GB	128GB	256GB		256GB	128GB	256GB	128GB	256GB

“Memory mode” support requires the submission and approval of an RPQ by VMware.

Legend

RDIMM	LRDIMM	PMEM
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E Appendix – DC PMEM Layouts – P580N – 4 CPUs/Sockets

						CPU 0, CPU 2													CPU 1, CPU 3													
						iMC0							iMC 1						iMC0							iMC 1						
						Channel 2		Channel 1		Channel 0			Channel 0		Channel 1		Channel 2		Channel 2		Channel 1		Channel 0			Channel 0		Channel 1		Channel 2		
Config #	# CPU	App Direct	Mem	DRAM	PMEM	A3	A9	A2	A8	A1	A7		A10	A4	A11	A5	A12	A6		B3	B9	B2	B8	B1	B7		B10	B4	B11	B5	B12	B6
122	4	Y	Y	384	2048	16GB		16GB	128GB	16GB	128GB		128GB	16GB	128GB	16GB		16GB		16GB		16GB	128GB	16GB	128GB		128GB	16GB	128GB	16GB		16GB
123	4	Y	Y	384	3072	16GB	128GB	16GB	128GB	16GB	128GB		128GB	16GB	128GB	16GB	128GB	16GB		16GB	128GB	16GB	128GB	16GB	128GB		128GB	16GB	128GB	16GB	128GB	16GB
134	4	Y		768	2048	32GB		32GB	128GB	32GB	128GB		128GB	32GB	128GB	32GB		32GB		32GB		32GB	128GB	32GB	128GB		128GB	32GB	128GB	32GB		32GB
80	4	Y	Y	768	3072	32GB	128GB	32GB	128GB	32GB	128GB		128GB	32GB	128GB	32GB	128GB	32GB		32GB	128GB	32GB	128GB	32GB	128GB		128GB	32GB	128GB	32GB	128GB	32GB
84	4	Y		1536	3072	64GB	128GB	64GB	128GB	64GB	128GB		128GB	64GB	128GB	64GB	128GB	64GB		64GB	128GB	64GB	128GB	64GB	128GB		128GB	64GB	128GB	64GB	128GB	64GB
88	4	Y		3072	3072	128GB	128GB	128GB	128GB	128GB	128GB		128GB	128GB	128GB	128GB	128GB	128GB		128GB	128GB	128GB	128GB	128GB	128GB		128GB	128GB	128GB	128GB	128GB	128GB
91	4	Y	Y	768	8192	32GB		32GB	512GB	32GB	512GB		512GB	32GB	512GB	32GB		32GB		32GB		32GB	512GB	32GB	512GB		512GB	32GB	512GB	32GB		32GB
92	4	Y	Y	768	12288	32GB	512GB	32GB	512GB	32GB	512GB		512GB	32GB	512GB	32GB	512GB	32GB		32GB	512GB	32GB	512GB	32GB	512GB		512GB	32GB	512GB	32GB	512GB	32GB
95	4	Y	Y	1536	8192	64GB		64GB	512GB	64GB	512GB		512GB	64GB	512GB	64GB		64GB		64GB		512GB	64GB	512GB		512GB	64GB	512GB	64GB		64GB	
96	4	Y	Y	1536	12288	64GB	512GB	64GB	512GB	64GB	512GB		512GB	64GB	512GB	64GB	512GB	64GB		64GB	512GB	64GB	512GB	64GB	512GB		512GB	64GB	512GB	64GB	512GB	64GB
100	4	Y	Y	3072	12288	128GB	512GB	128GB	512GB	128GB	512GB		512GB	128GB	512GB	128GB	512GB	128GB		128GB	512GB	128GB	512GB	128GB	512GB		512GB	128GB	512GB	128GB	512GB	128GB
124	4	Y	Y	384	4096	16GB		16GB	256GB	16GB	256GB		256GB	16GB	256GB	16GB		16GB		16GB		16GB	256GB	16GB	256GB		256GB	16GB	256GB	16GB		16GB
125	4	Y	Y	384	6144	16GB	256GB	16GB	256GB	16GB	256GB		256GB	16GB	256GB	16GB	256GB	16GB		16GB	256GB	16GB	256GB	16GB	256GB		256GB	16GB	256GB	16GB	256GB	16GB
103	4	Y	Y	768	4096	32GB		32GB	256GB	32GB	256GB		256GB	32GB	256GB	32GB		32GB		32GB		32GB	256GB	32GB	256GB		256GB	32GB	256GB	32GB		32GB
104	4	Y	Y	768	6144	32GB	256GB	32GB	256GB	32GB	256GB		256GB	32GB	256GB	32GB	256GB	32GB		32GB	256GB	32GB	256GB	32GB	256GB		256GB	32GB	256GB	32GB	256GB	32GB
107	4	Y		1536	4096	64GB		64GB	256GB	64GB	256GB		256GB	64GB	256GB	64GB		64GB		64GB		64GB	256GB	64GB	256GB		256GB	64GB	256GB	64GB		64GB
108	4	Y	Y	1536	6144	64GB	256GB	64GB	256GB	64GB	256GB		256GB	64GB	256GB	64GB	256GB	64GB		64GB	256GB	64GB	256GB	64GB	256GB		256GB	64GB	256GB	64GB	256GB	64GB
112	4	Y		3072	6144	128GB	256GB	128GB	256GB	128GB	256GB		256GB	128GB	256GB	128GB	256GB	128GB		128GB	256GB	128GB	256GB	128GB	256GB		256GB	128GB	256GB	128GB	256GB	128GB

“Memory mode” support requires the submission and approval of an RPQ by VMware.

Legend

RDIMM	LRDIMM	PMEM
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