

VxRail Support Matrix

VxRail E, G, P, S, and V Series appliances
on 13th Generation and 14th Generation PowerEdge

VxRail Engineering
April 2020

Note: *This document has been deprecated as of April 21, 2020.*

Please refer to one of the following replacement support matrices:

- [VxRail 7.0.x Support Matrix](https://support.emc.com/docu97739) (https://support.emc.com/docu97739)
- [VxRail 4.7.x Support Matrix](https://support.emc.com/docu97738) (https://support.emc.com/docu97738)
- [VxRail 4.5.x Support Matrix](https://support.emc.com/docu97737) (https://support.emc.com/docu97737)
- [VxRail 4.0.x Support Matrix](https://support.emc.com/docu97640) (https://support.emc.com/docu97640)

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 Edit History

Version	Date	Description
A49	27-Apr-2020	Added link to VxRail 7.0.x Support Matrix as a reference.
A48	21-Apr-2020	Deprecated this document. Please refer to one of the following replacement support matrices: <ul style="list-style-type: none"> • VxRail 4.7.x Support Matrix • VxRail 4.5.x Support Matrix • VxRail 4.0.x Support Matrix
A47	6-Feb-20	Updated VCF on VxRail Update (3.9.1)
A46	27-Jan-20	Smart Fabric update
A45	17-Jan-20	Added Toshiba RM5 7.68TB vSAS SSD
A44	10-Jan-20	Added 4.5.420 ESXi 6.5 P04
A43	19-Dec-19	Corrected build number for VC and release # for ESXi in 4.7.410 table
A42	18-Dec-19	SmartFabric change – removed OS10.5.02 support
A41	17-Dec-19	Added 4.7.410 ESXi 6.7 U3, 4.0.602 ESXi 6.0 EP23, and 4.5.402 ESXi 6.5 EP18
A40	10-Dec-19	Added P580N and E560N Platforms – 4.7.400. Added “Unmanaged NIC card” table
A39	5-Dec-19	Added 4.5.401 ESXi 6.5 EP17, ESXi 4.7.301 ESXi 6.7 EP13 Updated FW for Toshiba PM5 drives and Micron 5100 Boot M.2 drive
A38	26-Nov-19	Added 4.0.601 ESXi 6.0 EP22
A37	7-Nov-19	Added 4.0.600, ESXi 6.0 P08, VCF on VxRail 3.9
A36	15-Oct-19	Corrected CPLD table, Added Chassis Management Board table
A35	18-Sep-19	Added 4.7.300, ESXi 6.7 U3, VCF 3.8.1, LCM Support for IDSDM, Samsung PM883 RI SATA SSD
A34	30-Jul-19	Added 4.7.212. Updated VCF on VxRail table with 3.8
A33	16-Jul-19	Added 4.7.210 ESXi 6.7 EP09 – added Qlogic and Mellanox NICs Added 4.5.400 ESXi 6.5 U3
A32	21-Jun-19	Updated OS10 version in Smart Fabric Section Updated latest drive FW for Intel S4500, Samsung 1725a Added footnote indicating X710 is not supported on 13G platforms Updated CPLD version
A31	11-Jun-19	Updated VCF Tables
A30	6-Jun-19	Updated Smart Fabric Section. Added 4.7.211 ESXi 6.7 U2
A29	29-May-19	Updated Smart Fabric Section Updated Drive table to reflect new drives supported on 13G platform Added 4.0.524 ESXi 6.0 EP21, 4.5.314 ESXi 6.5 EP14
A28	8-May-19	Added VCF on Rail 3.7.1 Added 4.7.200
A27	16-Apr-19	Added Section 15 – VCF on Rail
A26	16-Apr-19	Added Intel S4510 SSD SATA Drives Added Intel P4610 1.6TB MU NVMe drive Added Samsung PM1725b 1.6TB MU NVMe drive
A25	4-Apr-19	Added 4.0.523 ESXi 6.0 EP20, 4.5.311 ESXi 6.5 EP13, 4.7.111 ESXi 6.7 EP07 Added 1.0.7 CPLD FW to section 8 Moved M.2 information to Section 11
A24	18-Mar-19	Added clarification to Table 2 Corrected Model number for Samsung PM1643 Added more detail to the LCM table New FW available for Seagate Skybolt HDDs Added 4.5.310 and 4.7.110 releases Added a CPLD section to clarify valid FW versions per VxRail release
A23	31-Jan-19	Added Micron M.2 drive to Table 7 Corrected HBA FW/Driver for 4.7.100
A22	22-Jan-19	Added 4.7.100 ESXi 6.7 EP6 Added Samsung PM883 RI SATA SSD
A21	18-Dec-18	Added 4.5.300 ESXi 6.5 P03 Updated LCM Table Added VxRail-Dell SmartFabric table
A20	6-Dec-18	Added 4.7.001 Critical fixes, including new CPLD FW for P/V/S570/F which requires a manual upgrade in order to be added <ul style="list-style-type: none"> - New BOSS FW, NIC FW Added Toshiba PM5 Generation of W/RI drives
A19	16-Nov-18	Added 4.7.000 ESXi 6.7 EP5

2 Introduction

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

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

3 VxRail rules

This section contains consideration rules when using VxRail appliances.

Table 1 VxRail appliance rules

Information	Description
Minimum number of VxRail nodes in a cluster Exception: specific 2-node vSAN configurations with a witness	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	✓
For 4.0.x and 4.5.x releases below 4.5.150, The first four nodes of any cluster must be homogeneous and configurations must match	✓
Maximum of 8 nodes when only using a 1 GbE network	✓
10 GbE and 1GbE networks cannot both be used for VSAN traffic	✓
10GbE and 25GbE networks cannot both be used for VSAN traffic	✓

4 Supported appliance configurations

Table 2 Supported appliance configurations

13G Platforms

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

14G Platforms

Model	Configuration	Chassis
VxRail G560	Hybrid	24 x 2.5" drive slots
VxRail G560/F	All Flash	24 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

1. E = E Series platforms (1U, VxRail branded Dell R630 for 13G, R640 for 14G)
2. P = P Series platforms (2U, VxRail branded Dell R730 for 13G, R740xd for 14G, R840 for 14G)
3. V = V Series platforms, includes GPUs (2U, VxRail branded Dell R730 for 13G, R740xd for 14G)
4. S = S Series platforms, 3.5" HDD (2U, VxRail branded Dell R730 for 13G, R740xd for 14G)
5. G = G Series platforms (2U/4N, VxRail branded Dell C6420 for 14G)

5 VxRail with ESXi 6.0 supported firmware and drivers

5.1 6.0 P03 / 4.0 → 6.0 P05 / 4.0.300

ESXi	6.0 P03		6.0 U3		6.0 EP07a		6.0 P05	
vSAN	6.2		6.2		6.2		6.2	
VxRail	4.0		4.0.132		4.0.200		4.0.300	
BIOS	2.2.5		2.2.5 2.4.3		2.2.5 2.4.3		2.2.5 2.4.3	
HBA	FW	Driver	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	9.17.20.07	10.00.03.00	9.17.20.07	10.00.03.00	9.17.20.07	10.00.03.00	9.17.20.07	10.00.03.00
	13.17.03.00	14.00.00.00	13.17.03.00	14.00.00.00	13.17.03.00	14.00.00.00	13.17.03.00	14.00.00.00
NDC and NICs	FW	Driver	FW	Driver	FW	Driver	FW	Driver
Intel i350	17.5.10	5.3.2	17.5.10	5.3.2	17.5.10	5.3.2	17.5.10	5.3.2
Intel X520	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1
Intel X540	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1
Intel X550	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1
Intel X710 (not supported on 13G)	17.5.12	1.4.28	17.5.12	1.4.28	17.5.12	1.4.28	17.5.12	1.4.28
iDRAC	2.40.40.40		2.40.40.40 2.41.40.40 (E/S series) 2.43.43.43 (P/V series)		2.40.40.40 2.41.40.40 (E/S series) 2.43.43.43 (P/V series)		2.40.40.40 2.41.40.40 (E/S series) 2.43.43.43 (P/V series)	
PTAgent	1.1-0.5885		1.1-0.5885		1.1-0.5885		1.1-0.5885	
iSM	2.3.0		2.3.0		2.3.0		2.3.0	

Software Item	Version			
VxRail Manager	4.0	4.0.132	4.0.200	4.0.300
ESRS	3.16 (v2)	3.16 (v2)	3.16 (v2)	3.20
Log Insight	3.3.1-3644329	3.3.1-3644329	3.3.1-3644329	3.3.1-3644329
vCenter	6.0.0-3634788 (U2P3)	6.0.0-5112509 (U3)	6.0.0-5183552 (U3a)	6.0.0-5318203 (U3b)
ESXI	6.0.0-4192238 (U2P3)	6.0.0-5050593 (U3)	6.0.0-5224934 (U3a)	6.0.0-5572656 (P05)
Platform Service				

5.2 6.0 P06 / 4.0.310 → 4.0.400

ESXi	6.0 P05		6.0 EP11		6.0 P05		6.0 P06	
vSAN	6.2		6.2		6.2		6.2	
VxRail	4.0.301		4.0.302		4.0.310		4.0.400	
BIOS	2.2.5 2.4.3		2.2.5 2.4.3		2.4.3 2.5.5		2.5.5	
HBA	FW	Driver	FW	Driver	FW	Driver	FW	Driver
HBA 330 Mini	9.17.20.07	10.00.03.00	9.17.20.07	10.00.03.00	13.17.03.00	14.00.00.00	13.17.03.05	14.15.00.00
	13.17.03.00	14.00.00.00	13.17.03.00	14.00.00.00	13.17.03.05	14.15.00.00		
NDC and NICs	FW	Driver	FW	Driver	FW	Driver	FW	Driver
Intel i350	17.5.10	5.3.2	17.5.10	5.3.2	17.5.10	5.3.2	17.5.10	5.3.2
					18.0.17	5.3.3		
Intel X520	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1
					18.0.17	4.5.1		
Intel X540	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1
					18.0.17	4.5.1		
Intel X550	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10	4.4.1
					18.0.17	4.5.1		
Intel X710 (not supported on 13G)	17.5.12	1.4.28	17.5.12	1.4.28	17.5.12	1.4.28	17.5.12	1.4.28
					18.0.17	2.0.6		
iDRAC	2.40.40.40. 2.41.40.40 (E/S series) 2.43.43.43 (P/V series)		2.40.40.40. 2.41.40.40 (E/S series) 2.43.43.43 (P/V series)		2.50.50.50		2.50.50.50	
PTAgent	1.1-0.5885		1.1-0.5885		1.1-0.5885		1.6-1.11355	
iSM	2.3.0		2.3.0		2.3.0		2.5.1	

Software Item	Version			
VxRail Manager	4.0.301	4.0.302	4.0.310	4.0.400
ESRS	3.20	3.20	3.20 (v3)	3.24
Log Insight	3.3.1-3644329	3.3.1-3644329	3.3.1-3644329	4.3.0-5084751
vCenter	6.0.0-5318203 (U3b)	6.0.0-5318203 (U3b)	6.0.0-5318203 (U3b)	6.0-7037393 (U3c)
ESXi	6.0.0-5572656 (P05)	6.0.0-6765062 (EP11)	6.0.0-5572656 (P05)	6.0-6921384 (P06)
Platform Service			1.0.0-60	1.0.0-60

5.3 6.0 P06 / 4.0.401 → 6.0 P07 / 4.0.510

ESXi	6.0 P06		6.0 EP13		6.0 EP14		6.0 P07	
vSAN	6.2		6.2		6.2		6.2	
VxRail	4.0.401		4.0.402		4.0.500		4.0.510	
BIOS	2.5.5		2.7.1		2.8.0 (2JFRF)		2.8.0 (2JFRF)	
HBA	FW	Driver	FW	Driver	FW	Driver	FW	Driver
HBA 330 Mini	13.17.03.05	14.15.00.00	13.17.03.05	14.15.00.00	15.17.90.06	16.00.01.00	15.17.90.06	16.00.01.00
NDC and NICs	FW	Driver	FW	Driver	FW	Driver	FW	Driver
Intel i350	17.5.10	5.3.2	17.5.10	5.3.2	17.5.10 (V6TPJ)	5.3.2	17.5.10 (V6TPJ)	5.3.2
	18.0.17	5.3.3	18.0.17	5.3.3	18.0.17 (2MF9C)	5.3.3	18.0.17 (2MF9C)	5.3.3
Intel X520	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17	4.5.1	18.0.17	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X540	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17	4.5.1	18.0.17	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X550	17.5.10	4.4.1	17.5.10	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17	4.5.1	18.0.17	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X710 (not supported on 13G)	17.5.12	1.4.28	17.5.12	1.4.28	17.5.12 (XJW5M)	1.4.28	17.5.12 (XJW5M)	1.4.28
	18.0.17	2.0.6	18.0.17	2.0.6	18.0.17	2.0.6	18.0.17	2.0.6
iDRAC	2.50.50.50		2.50.101.50		2.52.52.52 (74GHJ)		2.60.60.60 (CX8N2)	
PTAgent	1.7-1.11776		1.7-1.11776		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	2.5.1-734		2.5.1-734		3.1.0-960 (FTGRN)		3.1.0-960 (FTGRN)	
PM	1.16		1.16		1.16		1.16	
	2.07		2.07		2.07		2.07	
Expander BP					3.35 (HYPYY)		3.35 (HYPYY)	
Non-Expander BP					2.25 (HRP1V)		2.25 (HRP1V)	
SATADOM	S130710K		S130710K		S130710K		S130710K	

Software Item	Version			
VxRail Manager	4.0.401 7673556	4.0.402 8119831	4.0.500 8993084	4.0.510 9391850
ESRS	3.24.0004	3.24.0004	3.24.0004	3.24.0004
Log Insight	4.3.0-5084751	4.3.0-5084751	4.3.0-5084751	4.3.0-5084751
vCenter	6.0-7462485 (U3d)	6.0-7924804 (U3e)	6.0-8803875 (U3f)	6.0-9146216 (U3g)
ESXi	6.0-6921384 (P06)	6.0-7967664 (EP13)	6.0-8934903 (EP14)	6.0-9239799 (P07)
Platform Service	4.0.401	4.0.402	4.0.500	4.0.510

5.4 6.0 EP15 / 4.0.520 → 6.0 EP20 / 4.0.523

ESXi	6.0 EP15		6.0 EP18		6.0 EP19		6.0 EP20	
vSAN	6.2		6.2 EP18		6.2 EP19		6.2 EP20	
VxRail	4.0.520		4.0.521		4.0.522		4.0.523	
BIOS	2.8.0 (2JFRF)		2.8.0 (2JFRF)		2.8.0 (2JFRF)		2.8.0 (2JFRF)	
HBA	FW	Driver	FW	Driver	FW	Driver	FW	Driver
HBA 330 Mini	15.17.09.06 (MF6CM)	16.00.01.0 0	15.17.09.06 (MF6CM)	16.00.01.0 0	15.17.09.06 (MF6CM)	16.00.01.0 0	15.17.09.06 (MF6CM)	16.00.01.0 0
NDC and NICs	FW	Driver	FW	Driver	FW	Driver	FW	Driver
Intel i350	17.5.10 (V6TPJ)	5.3.2	17.5.10 (V6TPJ)	5.3.2	17.5.10 (V6TPJ)	5.3.2	17.5.10 (V6TPJ)	5.3.2
	18.0.17 (2MF9C)	5.3.3	18.0.17 (2MF9C)	5.3.3	18.0.17 (2MF9C)	5.3.3	18.0.17 (2MF9C)	5.3.3
Intel X520	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X540	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X550	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X710 (not supported on 13G)	17.5.12 (XJW5M)	1.4.28	17.5.12 (XJW5M)	1.4.28	17.5.12 (XJW5M)	1.4.28	17.5.12 (XJW5M)	1.4.28
	18.0.17	2.0.6	18.0.17	2.0.6	18.0.17	2.0.6	18.0.17	2.0.6
iDRAC	2.60.60.60 (CX8N2)							
PTAgent	1.7.4.rb4af190							
iSM	3.1.0-960 (FTGRN)							
PM	1.16	2.07	1.16	2.07	1.16	2.07	1.16	2.07
Expander BP	3.35 (HYPYY)							
Non-Expander BP	2.25 (HRP1V)							
SATADOM	S130710K							

Software Item	Versions			
VxRail Manager	4.0.520 9821414	4.0.521 10643947	4.0.522 10765344	4.0.523 13049050
ESRS	See Section 8	See Section 8	See Section 8	See Section 8
Log Insight	4.3.0-5084751	4.3.0-5084751	4.3.0-5084751	4.3.0-5084751
vCenter	6.0-9291058 (U3h)	6.0-9291058 (U3h)	6.0-9291058 (U3h)	6.0-9291058 (U3h)
ESXi	6.0-9313334 (EP15)	6.0-10474991 (EP18)	6.0-10719132 (EP19)	6.0-13003896 (EP20)
Platform Service	4.0.520	4.0.521	4.0.522	4.0.523

5.5 6.0 EP20 / 4.0.524 → 6.0 EP23 / 4.0.602

ESXi	6.0 EP20		6.0 P08		6.0 EP22		6.0 EP23	
vSAN	6.2 P21		6.2 P8		6.2 P8		6.2 EP23	
VxRail	4.0.524		4.0.600		4.0.601		4.0.602	
BIOS	2.8.0 (2JFRF)		2.10.5 (1RKPD)		2.10.5 (1RKPD)		2.10.5 (1RKPD)	
HBA	FW	Driver	FW	Driver	FW	Driver	FW	Driver
HBA 330 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	15.17.09.06 (MF6CM)	16.00.01.00
NDC and NICs	FW	Driver	FW	Driver	FW	Driver	FW	Driver
Intel i350	17.5.10 (V6TPJ)	5.3.2	17.5.10 (V6TPJ)	5.3.2	17.5.10 (V6TPJ)	5.3.2	17.5.10 (V6TPJ)	5.3.2
	18.0.17 (2MF9C)	5.3.3	18.0.17 (2MF9C)	5.3.3	18.0.17 (2MF9C)	5.3.3	18.0.17 (2MF9C)	5.3.3
Intel X520	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X540	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X550	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1	17.5.10 (V6TPJ)	4.4.1
	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1	18.0.17 (F87K5)	4.5.1
Intel X710 (not supported on 13G)	17.5.12 (XJW5M)	1.4.28	17.5.12 (XJW5M)	1.4.28	17.5.12 (XJW5M)	1.4.28	17.5.12 (XJW5M)	1.4.28
	18.0.17	2.0.6	18.0.17	2.0.6	18.0.17	2.0.6	18.0.17	2.0.6
iDRAC	2.60.60.60 (CX8N2)		2.70.70.70 (DNH17)		2.70.70.70 (DNH17)		2.70.70.70 (DNH17)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.1.0-960 (FTGRN)		3.1.0-960 (FTGRN)		3.1.0-960 (FTGRN)		3.1.0-960 (FTGRN)	
PM	1.16	2.07	1.16	2.07	1.16	2.07	1.16	2.07
Expander BP	3.35 (HYPYY)		3.35 (HYPYY)		3.35 (HYPYY)		3.35 (HYPYY)	
Non-Expander BP	2.25 (HRP1V)		2.25 (HRP1V)		2.25 (HRP1V)		2.25 (HRP1V)	
SATADOM	S130710K		S130710K		S130710K		S130710K	

Software Item	Versions			
VxRail Manager	4.0.524 13820019	4.0.600-14951533	4.0.601-15102651	4.0.602-15266364
ESRS	See Section 8	See Section 8	See Section 8	See Section 8
Log Insight	4.3.0-5084751	4.3.0-5084751	4.3.0-5084751	4.3.0-5084751
vCenter	6.0-13638471 (U3i)	6.0-14510547 (U3j)	6.0-14510547 (U3j)	6.0-14510547 (U3j)
ESXi	6.0-13635687 (EP21)	6.0-14513180 (P08)	6.0-15018929 (EP22)	6.0-15169789 (EP23)
Platform Service	4.0.524	4.0.600	4.0.601	4.0.602

6 VxRail with ESXi 6.5 supported firmware and drivers

6.1 6.5 U1 / 4.5 → 6.5 EP04 / 4.5.101

ESXi	6.5 U1 (13G)		6.5 EP04 (13G)		6.5 EP04 (14G)	
vSAN	6.6		6.6		6.6	
VxRail	4.5		4.5.070		4.5.101	
BIOS	2.5.5		2.5.5		1.2.11	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	13.17.03.05	14.15.00.00	13.17.03.05	14.15.00.00	13.17.03.05	14.15.00.00
HBA330 Adptr (R640/R740xd)					13.17.03.05	14.15.00.00
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	17.5.10	5.3.2	17.5.10	5.3.2	NA	
	18.0.17	5.3.3	18.0.17	5.3.3	NA	
Intel X520	17.5.10	4.4.1	17.5.10	4.4.1	NA	
	18.0.17	4.5.1	18.0.17	4.5.1	NA	
Intel X540	17.5.10	4.4.1	17.5.10	4.4.1	NA	
	18.0.17	4.5.1	18.0.17	4.5.1	NA	
Intel X550	17.5.10	4.4.1	17.5.10	4.4.1	18.3.6	1.5.3
	18.0.17	4.5.1	18.0.17	4.5.1		
Intel X710 (not supported on 13G)	17.5.12	1.4.28	17.5.12	1.4.28	18.3.6	1.4.3
	18.0.17	2.0.6	18.0.17	2.0.6		
iDRAC	2.40.40.40 2.41.40.40 (E/S series) 2.43.43.43 (P/V series)		2.40.40.40 2.41.40.40 (E/S series) 2.43.43.43 (P/V series)		3.15.15.15	
PTAgent	1.4-0.8900		1.4-1.10264		1.5.2.11290	
iSM	2.5.1-734		2.5.1-734		3.0.1-722	
PM	1.16		1.16		1.08	
	2.07		2.07			
M.2 Disk					See Section 11	
Expander BP			3.35		2.17	
Non-Expander BP			2.25		4.23 (S570 only)	
CPLD	NA		1.01 (FKRG7)		See tables in section 9.1	
IDSDM	NA		NA		1.7	

Software Item	Version		
VxRail Manager	4.5	4.5.070	4.5.101
ESRS	See Section 8	See Section 8	See Section 8
Log Insight	4.3.0-5084751	4.3.0-5084751	4.3.0-5084751
vCenter	6.5.0-5973321	6.5.0-6671409 (U1A)	6.5.0-6671409 (U1A)

ESXi	6.5.0-5969303 U1	6.5.0-6765664 (EP04)	6.5.0-6765664 (EP04)
Platform Service	1.0.0-60	1.0.0-60	1.0.0-60

6.2

6.5 P02 / 4.5.150

ESXi	6.5 P02 (13G)				6.5 P02 (14G)	
vSAN	6.6				6.6	
VxRail	4.5.150				4.5.150	
BIOS	2.5.5		2.5.5		1.2.11	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	13.17.03.05	14.15.00.00	13.17.03.05	14.15.00.00	13.17.03.05	14.15.00.00
HBA330 Adptr (R640/R740xd)					13.17.03.05	14.15.00.00
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	17.5.10	5.3.2	18.0.17	5.3.3	NA	
Intel X520	17.5.10	4.4.1	18.0.17	4.5.1	NA	
Intel X540	17.5.10	4.4.1	18.0.17	4.5.1	NA	
Intel X550	17.5.10	4.4.1	18.0.17	4.5.1	18.3.6	1.5.3
Intel X710 (not supported on 13G)	17.5.12	1.4.28	18.0.17	2.0.6	18.3.6	1.4.3
iDRAC	2.50.50.50				3.15.15.15	
PTAgent	1.7-1.11776				1.7-1.11776	
iSM	3.1.0-960				3.1.0-960	
BOSS/SATADOM	S130710K				2.5.13.2008	
M.2					See Section 11	
PM	1.16/2.07		2.07		1.08	
Expander BP			3.35		2.17	
Non-Expander BP			2.25		4.23 (S570 only)	
CPLD	NA		1.01 (FKRG7)		See tables in section 9.1	
IDSDM	NA		NA		1.7	

Software Item	Version
VxRail Manager	4.5.150
ESRS	See Section 8
Log Insight	4.3.0-5084751
vCenter	6.5.0-7515524 (U1e)
ESXi	6.5.0-7388607 (P02)
Platform Service	4.5.150

6.3 6.5 EP06 / 4.5.152

ESXi	6.5 EP06 (13G)				6.5 EP06 (14G)	
vSAN	6.6				6.6	
VxRail	4.5.152				4.5.152	
BIOS	2.7.1		2.7.1		1.2.11	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	13.17.03.05	14.15.00.00	13.17.03.05	14.15.00.00	13.17.03.05	14.15.00.00
HBA330 Adptr (R640/R740xd)					13.17.03.05	14.15.00.00
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	17.5.10	5.3.2	18.0.17	5.3.3	NA	NA
Intel X520	17.5.10	4.4.1	18.0.17	4.5.1	NA	NA
Intel X540	17.5.10	4.4.1	18.0.17	4.5.1	NA	NA
Intel X550	17.5.10	4.4.1	18.0.17	4.5.1	18.3.6	1.5.3
Intel X710 (not supported on 13G)	17.5.12	1.4.28	18.0.17	2.0.6	18.3.6	1.4.3
BCM57414	NA	NA	NA	NA	NA	NA
iDRAC	2.50.101.50				3.15.15.15 (VP4C2)	
PTAgent	1.7-1.11776				1.7-1.11776	
iSM	3.1.0-960				3.1.0-960	
PM	1.16/2.07		2.07		1.08	
M.2 disk	NA		NA		See Section 11	
BOSS/SATADOM	S130710K				2.5.13.2008 (VN889)	
Expander BP					2.17	
Non-Expander BP					4.23 (S570 only)	
CPLD	NA		1.01 (FKRG7)		See tables in section 9.1	
IDSDM	NA		NA		1.7	

Software Item	Version	Version
VxRail Manager	4.5.152-8119832	4.5.152-8119832
ESRS	See Section 8	3.24.0004
Log Insight	4.3.0-5084751	4.3.0-5084751
vCenter	6.5 U1g 8024368	6.5 U1g 8024368
ESXI	6.5 EP06 7967591	6.5 EP06 7967591
Platform Service	4.5.152	4.5.152

6.4 6.5 P02 / 4.5.200

ESXi	6.5 P02 (13G)		6.5 P02 (14G)		6.5 P02 (14G - G560/F)	
vSAN	6.6		6.6		6.6	
VxRail	4.5.200		4.5.200		4.5.200	
BIOS	2.5.5 (Y4Y95)		1.2.11 (79GKV)		1.2.11 (9CCND)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	13.17.03.05 (V8447)	14.15.00.00	13.17.03.05 (V8447)	14.15.00.00	13.17.03.05 (V8447)	14.15.00.00
HBA330 Adapter	NA	NA	13.17.03.05 (847VG)	14.15.00.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.3.6 (WWPJK)	1.3.1	NA	NA	NA	NA
Intel X520	18.3.6 (WWPJK)	1.5.3	NA	NA	NA	NA
Intel X540	18.3.6 (WWPJK)	1.5.3	NA	NA	NA	NA
Intel X550	18.3.6 (WWPJK)	1.5.3	18.3.6 (WWPJK)	1.5.3	18.3.6 (WWPJK)	1.5.3
Intel X710 (not supported on 13G)	18.3.6 (GD64X)	1.4.3	18.3.6 (GD64X)	1.4.3	18.3.6 (GD64X)	1.4.3
BCM57414	NA	NA	20.06.05.11 (FMR1X)	20.6.302.0	NA	NA
iDRAC	2.50.101.50 (8NFN1)		3.15.17.15 (3NCPY)		3.15.17.15 (3NCPY)	
PTAgent	1.7-1.11776		1.7-1.11776		1.7-1.11776	
iSM	3.1.0-960		3.1.0-960		3.1.0-960	
PM	2.07		1.08		1.03	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.2008 (VN889)		NA	
Expander BP	3.35 (HYPYY)		2.17 (NF3GR)		NA	
Non-Expander BP	2.25 (HRP1V)		4.23 (S570 only) (P62PG)		4.18 (RW0VY)	
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.5.200-7769313
ESRS	See Section 8
Log Insight	4.3.0-5084751
vCenter	6.5 EP5 7515524
ESXI	6.5 P02 7388607
Platform Service	4.5.200-7769313

6.5 6.5 U2 / 4.5.210

ESXi	6.5 U2 (13G)		6.5 U2 (14G)		6.5 U2 (14G – G560/F)	
vSAN	6.6.1		6.6.1		6.6.1	
VxRail	4.5.210		4.5.210		4.5.210	
BIOS	2.7.1 (NMF8F)		1.3.7 (MGGKF)		1.3.7 (M2WTN)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	13.17.03.05 (V8447)	14.15.00.00	13.17.03.05 (V8447)	14.15.00.00	13.17.03.05 (V8447)	14.15.00.00
HBA330 Adapter	NA	NA	13.17.03.05 (847VG)	14.15.00.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.3.6 (WWPJK)	1.3.1	NA	NA	NA	NA
Intel X520	18.3.6 (WWPJK)	1.5.3	NA	NA	NA	NA
Intel X540	18.3.6 (WWPJK)	1.5.3	NA	NA	NA	NA
Intel X550	18.3.6 (WWPJK)	1.5.3	18.3.6 (WWPJK)	1.5.3	18.3.6 (WWPJK)	1.5.3
Intel X710 (not supported on 13G)	18.3.6 (GD64X)	1.4.3	18.3.6 (GD64X)	1.4.3	18.3.6 (GD64X)	1.4.3
BCM57414	NA	NA	20.06.05.11 (FMR1X)	20.6.302.0	NA	NA
iDRAC	2.52.52.52 (74GHJ)		3.15.17.15 (3NCPY) 3.21.23.22 (K877V) (man)		3.15.17.15 (3NCPY) 3.21.23.22 (K877V) (man)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.1.0-960		3.1.0-960		3.1.0-960	
PM	1.16/2.07		1.08		1.03	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.2008 (VN889) 2.5.13.3011 (RPD7Y) (man)		NA	
Expander BP	3.35 (HYPYY)		2.17 (NF3GR)		NA	
Non-Expander BP	2.25 (HRP1V)		4.23 (S570 only) (P62PG)		4.18 (RW0VY)	
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.5.210 8392085
ESRS	See Section 8
Log Insight	4.3.0 5084751
vCenter	6.5 U2 8307201
ESXI	6.5 U2 8294253
Platform Service	4.5.210 8372442

RTW = Release to Web

Man = SoLVE Procedure Required to perform update

6.6 6.5 U2 / 4.5.211

ESXi	6.5 U2 (13G)		6.5 U2 (14G)		6.5 U2 (14G – G560/F)	
vSAN	6.6.1 U2		6.6.1 U2		6.6.1 U2	
VxRail	4.5.211		4.5.211		4.5.211	
BIOS	2.7.1 (NMF8F)		1.3.7 (MGGKF)		1.3.7 (M2WTN)	
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	18.3.6 (WWPJK)	1.3.1	NA	NA	NA	NA
Intel X520	18.3.6 (WWPJK)	1.5.3	NA	NA	NA	NA
Intel X540	18.3.6 (WWPJK)	1.5.3	NA	NA	NA	NA
Intel X550	18.3.6 (WWPJK)	1.5.3	18.3.6 (WWPJK)	1.5.3	18.3.6 (WWPJK)	1.5.3
Intel X710 (not supported on 13G)	18.3.6 (GD64X)	1.4.3	18.3.6 (GD64X)	1.4.3	18.3.6 (GD64X)	1.4.3
BCM57414	NA	NA	20.06.05.11 (FMR1X)	20.6.302.0	NA	NA
iDRAC	2.52.52.52 (74GHJ)		3.15.17.15 (3NCPY) 3.21.23.22 (K877V) (man)		3.15.17.15 (3NCPY) 3.21.23.22 (K877V) (man)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.1.0-960		3.1.0-960		3.1.0-960	
PM	1.16/2.07		1.08		1.03	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.2008 (VN889) 2.5.13.3011 (RPD7Y) (man)		NA	
Expander BP	3.35 (HYPYY)		2.17 (NF3GR)		NA	
Non-Expander BP	2.25 (HRP1V)		4.23 (S570 only) (P62PG)		4.18 (RW0VY)	
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.5.211 8667744
ESRS	See Section 8
Log Insight	4.3.0 5084751
vCenter	6.5 U2 8307201
ESXI	6.5 U2 8294253
Platform Service	4.5.211 8667744

RTW = Release to Web

Man = Solve Procedure Required to perform update

6.7 6.5 EP07 / 4.5.212

ESXi	6.5 EP07 (13G)		6.5 EP07 (14G)		6.5 EP07 (14G – G560/F)	
vSAN	6.6.1 U2		6.6.1 U2		6.6.1 U2	
VxRail	4.5.212		4.5.212		4.5.212	
BIOS	2.8.0 (2JFRF)		1.4.5 (W4KYO)		1.4.5 (D9TXT)	
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	18.3.6 (WWPJK)	1.3.1	NA	NA	NA	NA
Intel X520	18.3.6 (WWPJK)	1.5.3	NA	NA	NA	NA
Intel X540	18.3.6 (WWPJK)	1.5.3	NA	NA	NA	NA
Intel X550	18.3.6 (WWPJK)	1.5.3	18.3.6 (WWPJK)	1.5.3	18.3.6 (WWPJK)	1.5.3
Intel X710 (not supported on 13G)	18.5.17 (T6VN9)	1.5.8	18.5.17 (T6VN9)	1.5.8	18.5.17 (T6VN9)	1.5.8
BCM57414	NA	NA	20.06.05.11 (FMR1X)	20.6.302.0	NA	NA
iDRAC	2.52.52.52 (74GHJ)		3.15.17.15 (3NCPY) 3.21.23.22 (K877V) (man)		3.15.17.15 (3NCPY) 3.21.23.22 (K877V) (man)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.1.0-960		3.1.0-960		3.1.0-960	
PM	1.16/2.07		1.08		1.03	
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.2008 (VN889) 2.5.13.3011 (RPD7Y) (man)		NA	
Expander BP	3.35 (HYPYY)		2.17 (NF3GR)		NA	
Non-Expander BP	2.25 (HRP1V)		4.23 (S570 only) (P62PG)		4.18 (RW0VY)	
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.5.212 8993024
ESRS	See Section 8
Log Insight	4.3.0 5084751
vCenter	6.5 U2b 8815520
ESXi	6.5 EP07 8935087
Platform Service	4.5.212

RTW = Release to Web

Man = SOLVE Procedure Required to perform update

6.8 6.5 EP07 / 4.5.215

ESXi	6.5 EP07 (14G)		6.5 EP07 (14G – G560/F)	
vSAN	6.6.1 U2		6.6.1 U2	
VxRail	4.5.215		4.5.215	
BIOS	1.4.8 (H7WR7)		1.4.9 (V1W6G)	
HBA	FW	Driver	FW	Driver
HBA330 Mini	15.17.09.06 (MF6CM)	16.00.01.00	15.17.09.06 (MF6CM)	16.00.01.00
HBA330 Adapter	15.17.09.06 (7KY60)	16.00.01.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver
Intel i350	NA	NA	NA	NA
Intel X520	NA	NA	NA	NA
Intel X540	NA	NA	NA	NA
Intel X550	18.5.17 (VX6DW)	1.6.5	18.5.17 (VX6DW)	1.6.5
Intel X710 (not supported on 13G)	18.5.17 (T6VN9)	1.5.8	18.5.17 (T6VN9)	1.5.8
BCM57414	20.08.04.04 (3VXHM)	20.8.152.0	NA	NA
iDRAC	3.21.21.21 (387FW) 3.21.23.22 (K877V) (Factory 9/29)		3.21.21.21 (387FW) 3.21.23.22 (K877V) (Factory 9/29)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.2.0-1172		3.2.0-1172	
PM	1.08	1.11 (factory)	1.03	1.04 (factory)
M.2 disk	DL43 (CHJGV)		See Section 11	
BOSS/SATADOM	2.5.13.2008 (VN889) 2.5.13.3011 (RPD7Y) (Factory 9/29)		NA	
Expander BP	2.17 (NF3GR) 2.25 (PP61J) (Factory)		NA	
Non-Expander BP	4.23 (S570 only) (P62PG) 4.26 (S570 only) (45MON) (Factory)		4.18 (RW0VY)	4.23 (8J57Y) (factory)
CPLD	See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		See table in section 9.2	
IDSMD	1.7		NA	
Software Item	Version			
VxRail Manager	4.5.215 8993685			
ESRS	See Section 8			
Log Insight	4.6.0 8080673			
vCenter	6.5 U2b 8815520			
ESXI	6.5 EP07 8935087			
Platform Service	4.5.215			

RTW = Release to Web

Man = SoLVE Procedure Required to perform update

6.9 6.5 EP08 / 4.5.218

ESXi	6.5 EP8 (13G)		6.5 EP8 (14G)		6.5 EP8 (14G – G560/F)	
vSAN	6.6.1 EP8		6.6.1 EP8		6.6.1 EP8	
VxRail	4.5.218		4.5.218		4.5.218	
BIOS	2.8.0 (2JFRF)		1.4.8 (H7WR7)		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	18.5.17 (VX6DW) (RTW) 18.5.18 (JV99R) (man)	1.4.1	NA	NA	NA	NA
Intel X520	18.5.17 (VX6DW) (RTW) 18.5.18 (3XJH0) (man)	1.6.5	NA	NA	NA	NA
Intel X540	18.5.17 (VX6DW) (RTW) 18.5.18 (3XJH0) (man)	1.6.5	NA	NA	NA	NA
Intel X550	18.5.17 (VX6DW) (RTW) 18.5.18 (3XJH0) (man)	1.6.5	18.5.17 (VX6DW) 18.5.18 (3XJH0) (Man)	1.6.5	18.5.17 (VX6DW) 18.5.18 (3XJH0) (Man)	1.6.5
Intel X710 (not supported on13G)	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 (3VXHM)	20.8.152.0	NA	NA
iDRAC	2.60.60.60 (CX8N2)		3.21.21.21 (387FW) (RTW) 3.21.23.22 (K877V) (Man)		3.21.21.21 (387FW) (RTW) 3.21.23.22 (K877V) (Man)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.2.0-1172		3.2.0-1172		3.2.0-1172	
PM	1.16	2.07	1.08	1.11	1.03	1.04
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.2008 (VN889) 2.5.13.3011 (RPD7Y) (Man)		NA	
Expander BP	3.35 (HYPYY)		2.17 (NF3GR) 2.25 (PP61J) (Factory)		NA	
Non-Expander BP	2.25 (HRP1V)		4.23 (S570 only) (P62PG) 4.26 (S570 only) (45MON) (Factory)		4.18 (RW0VY)	4.23 (8J57Y) (factory)
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSMD	NA		1.7		NA	
Software Item	Version					
VxRail Manager	4.5.218 9630255					
ESRS	See Section 8					
Log Insight	4.6.0 8080673					
vCenter	6.5 U2c 9451637					
ESXI	6.5 EP8 9298722					
Platform Service	4.5.218					

6.10 6.5 EP09 / 4.5.225

ESXi	6.5 EP9 (13G)		6.5 EP9 (14G)		6.5 EP9 (14G – G560/F)	
vSAN	6.6.1 EP9		6.6.1 EP9		6.6.1 EP9	
VxRail	4.5.225		4.5.225		4.5.225	
BIOS	2.8.0 (2JFRF)		1.4.8 (H7RW7)		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	NA	NA
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 (not supported on 13G)	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 (3VXHM)	20.8.152.0	NA	NA
iDRAC	2.60.60.60 (CX8N2)		3.21.23.22 (K877V)		3.21.23.22 (K877V)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.2.0-1172		3.2.0-1172		3.2.0-1172	
PM	1.16	2.07	1.08	1.11	1.03	1.04
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.2008 (VN889) 2.5.13.3011 (RPD7Y) (Man)* 2.5.13.3016 (MKV82) (Man)*		NA	
Expander BP	3.35 (HYPYY)		2.17 (NF3GR) 2.25 (PP61J)		NA	
Non-Expander BP	2.25 (HRP1V)		4.26 (S570 only) (45MON)		4.18 (RW0VY)	4.23 (8J57Y)
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	
Software Item	Version					
VxRail Manager	4.5.225 10233139					
ESRS	See Section 8					
Log Insight	4.6.0 8080673					
vCenter	6.5 U2c 9451637					
ESXI	6.5 EP9 10175896					
Platform Service	4.5.225					

RTW = Release to Web

Man = SoLVE Procedure Required to perform update

* - Manual BOSS update required with iDRAC 3.21.23.22 for 14G

6.11 6.5 EP10 / 4.5.227

ESXi	6.5 EP10 (13G)		6.5 EP10 (14G)		6.5 EP10 (14G – G560/F)	
vSAN	6.6.1 EP10		6.6.1 EP10		6.6.1 EP10	
VxRail	4.5.227		4.5.227		4.5.227	
BIOS	2.8.0 (2JFRF)		1.4.8 (H7RW7)		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	NA	NA
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 (not supported on 13G)	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 (3VXHM)	20.8.152.0	NA	NA
iDRAC	2.60.60.60 (CX8N2)		3.21.23.22 (K877V)		3.21.23.22 (K877V)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.2.0-1172		3.2.0-1172		3.2.0-1172	
PM	1.16	2.07	1.08	1.11	1.03	1.04
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.2008 (VN889) 2.5.13.3011 (RPD7Y) (Man)* 2.5.13.3016 (MKV82) (Man)*		NA	
Expander BP	3.35 (HYPYY)		2.17 (NF3GR) 2.25 (PP61J)		NA	
Non-Expander BP	2.25 (HRP1V)		4.26 (S570 only) (45MON)		4.18 (RW0VY)	4.23 (8J57Y)
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	
Software Item	Version					
VxRail Manager	4.5.227 10635363					
ESRS	See Section 8					
Log Insight	4.6.0 8080673					
vCenter	6.5 U2c 9451637					
ESXI	6.5 EP10 10390116					
Platform Service	4.5.227					

RTW = Release to Web

Man = SolVE Procedure Required to perform update

* - Manual BOSS update required with iDRAC 3.21.23.22 for 14G

6.12 6.5 EP11 / 4.5.229

ESXi	6.5 EP11 (13G)		6.5 EP11 (14G)		6.5 EP11 (14G – G560/F)	
vSAN	6.6.1 EP11		6.6.1 EP11		6.6.1 EP11	
VxRail	4.5.229		4.5.229		4.5.229	
BIOS	2.8.0 (2JFRF)		1.4.8 (H7RW7)		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	NA	NA
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 (not supported on 13G)	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 (3VXHM)	20.8.152.0	NA	NA
iDRAC	2.60.60.60 (CX8N2)		3.21.23.22 (K877V)		3.21.23.22 (K877V)	
PTAgent	1.7.4.rb4af190		1.7.4.rb4af190		1.7.4.rb4af190	
iSM	3.2.0-1172		3.2.0-1172		3.2.0-1172	
PM	1.16	2.07	1.08	1.11	1.03	1.04
M.2 disk	NA		See Section 11		See Section 11	
BOSS/SATADOM	S130710K		2.5.13.2008 (VN889) 2.5.13.3011 (RPD7Y) (Man)* 2.5.13.3016 (MKV82) (Man)*		NA	
Expander BP	3.35 (HYPYY)		2.17 (NF3GR) 2.25 (PP61J)		NA	
Non-Expander BP	2.25 (HRP1V)		4.26 (S570 only) (45MON)		4.18 (RW0VY)	4.23 (8J57Y)
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	
Software Item	Version					
VxRail Manager	4.5.229 10764993					
ESRS	See Section 8					
Log Insight	4.6.0 8080673					
vCenter	6.5 U2c 9451637					
ESXI	6.5 EP11 10719125					
Platform Service	4.5.229					

RTW = Release to Web

Man = SolVE Procedure Required to perform update

* - Manual BOSS update required with iDRAC 3.21.23.22 for 14G

6.13 6.5 P03 / 4.5.300

ESXi	6.5 P03 (13G)		6.5 P03 (14G)		6.5 P03 (14G – G560/F)	
vSAN	6.6.1 P03		6.6.1 P03		6.6.1 P03	
VxRail	4.5.300		4.5.300		4.5.300	
BIOS	2.8.0 (2JFRF)		1.5.6 (5KNGY)		1.5.6 (J2XG5)	
HBA	FW	Driver	FW	Driver	FW	Driver
HBA330 Mini	16.17.00.03 (8VCXF) 15.17.09.06 (MF6CM) (man)	17.00.00.00 16.00.01.00	16.17.00.03 (8VCXF) 15.17.09.06 (MF6CM) (man)	17.00.00.00 16.00.01.00	16.17.00.03 (8VCXF) 15.17.09.06 (MF6CM) (man)	17.00.00.00 16.00.01.00
HBA330 Adapter	NA	NA	16.17.00.03 (08TG4) 15.17.09.06 (7KY60) (man)	17.00.00.00 16.00.01.00	NA	NA
NDC and NICs	FW	Driver	FW	Driver	FW	Driver
Intel i350	18.8.9 (YHF9V)	1.4.6	NA	NA	NA	NA
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 (not supported on 13G)	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	20.08.04.04 (X31PR)	20.8.152.0
iDRAC	2.61.60.60 (1HY5M)		3.21.26.22 (FDMV1)		3.21.26.22 (FDMV1)	
PTAgent	1.8.1-21		1.8.1-21		1.8.1-21	
iSM	3.3-1290		3.3-1290		3.3-1290	
PM	1.16	2.07	1.08	1.11	1.03	1.04
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)
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.5.300 11239488
ESRS	See Section 8
Log Insight	4.6.0 8080673
vCenter	6.5 P03 10964411
ESXi	6.5 P03 10884925
Platform Service	4.5.300

RTW = Release to Web

Man = SolVE Procedure Required to perform update

6.14 6.5 P03 / 4.5.310

ESXi	6.5 P03 (13G)		6.5 P03 (14G)		6.5 P03 (14G – G560/F)	
vSAN	6.6.1 P03		6.6.1 P03		6.6.1 P03	
VxRail	4.5.310		4.5.310		4.5.310	
BIOS	2.8.0 (2JFRF)		1.5.6 (5KNGY)		1.5.6 (J2XG5)	
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)	1.4.6	NA	NA	NA	NA
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 (not supported on 13G)	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	20.08.04.04 (X31PR)	20.8.152.0
iDRAC	2.61.60.60 (1HY5M)		3.21.26.22 (FDMV1)		3.21.26.22 (FDMV1)	
PTAgent	1.8.1-21		1.8.1-21		1.8.1-21	
iSM	3.3-1290		3.3-1290		3.3-1290	
PM	1.16	2.07	1.08	1.11	1.03	1.04
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) 4.27 (WVG4W) (Factory)
CPLD	NA		See tables in section 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.5.310 12663036
ESRS	See Section 8
Log Insight	4.6.0 8080673
vCenter	6.5 P03 10964411
ESXi	6.5 P03 10884925
Platform Service	4.5.310

RTW = Release to Web

Man = SolVE Procedure Required to perform update

6.15 6.5 EP13 / 4.5.311

ESXi	6.5 EP13 (13G)		6.5 EP13 (14G)		6.5 EP13 (14G – G560/F)		
vSAN	6.6.1 P13		6.6.1 P13		6.6.1 P13		
VxRail	4.5.311		4.5.311		4.5.311		
BIOS	2.8.0 (2JFRF)		1.5.6 (5KNGY)		1.5.6 (J2XG5)		
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)	1.4.6	NA	NA	NA	NA	
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 (not supported on 13G)	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	20.08.04.04 (X31PR)	20.8.152.0	
iDRAC	2.61.60.60 (1HY5M)		3.21.26.22 (FDMV1)		3.21.26.22 (FDMV1)		
PTAgent	1.8.1-21		1.8.1-21		1.8.1-21		
iSM	3.3-1290		3.3-1290		3.3-1290		
PM	1.16	2.07	1.08	1.11	1.03	1.04	
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)	4.27(WVG4W) (Factory)
CPLD	NA		See tables in section 9.1		See tables in section 9.1		
Chassis Mgmt Brd	NA		NA		See table in section 9.2		
IDSDM	NA		1.7		NA		
Software Item	Version						
VxRail Manager	4.5.311 13066667						
ESRS	See Section 8						
Log Insight	4.6.0 8080673						
vCenter	6.5 U2d						
ESXi	6.5 EP13 13004031						
Platform Service	4.5.311						

RTW = Release to Web

Man = SolVE Procedure Required to perform update

6.16 6.5 EP14 / 4.5.314

ESXi	6.5 EP14 (13G)		6.5 EP14 (14G)		6.5 EP14 (14G – G560/F)		
vSAN	6.6.1 EP14		6.6.1 EP14		6.6.1 EP14		
VxRail	4.5.314		4.5.314		4.5.314		
BIOS	2.8.0 (2JFRF)		1.5.6 (5KNGY)		1.5.6 (J2XG5)		
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)	1.4.6	NA	NA	NA	NA	
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 (not supported on13G)	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)	214.0.190.0	21.40.22.21 (6DR4K)	214.0.190.0	
iDRAC	2.61.60.60 (1HY5M)		3.21.26.22 (FDMV1)		3.21.26.22 (FDMV1)		
PTAgent	1.8.1-21		1.8.1-21		1.8.1-21		
iSM	3.3-1290		3.3-1290		3.3-1290		
PM	1.16	2.07	1.08	1.11	1.03	1.04	
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)	4.27 (WVG4W) (Factory)
CPLD	NA		See tables in section 9.1		See tables in section 9.1		
Chassis Mgmt Brd	NA		NA		See table in section 9.2		
IDSDM	NA		1.7		NA		
Software Item	Version						
VxRail Manager	4.5.314 13819948						
ESRS	See Section 8						
Log Insight	4.6.0 8080673						
vCenter	6.5 U2g 13638625						
ESXI	6.5 EP14 13635690						
Platform Service	4.5.314						

RTW = Release to Web

Man = SolVE Procedure Required to perform update

6.17 6.5 U3 / 4.5.400

ESXi	6.5 U3 (13G)		6.5 U3 (14G)		6.5 U3 (14G – G560/F)		
vSAN	6.6.1 U3		6.6.1 U3		6.6.1 U3		
VxRail	4.5.400		4.5.400		4.5.400		
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 (TF1M6)	17.00.02.00*	16.17.00.05 (TF1M6)	17.00.02.00*	16.17.00.05 (TF1M6)	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)	1.4.6	NA	NA	NA	NA	
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 (not supported on 13G)	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)	214.0.190.0	21.40.22.21 (6DR4K)	214.0.190.0	
Qlogic 41112/41162/41164	NA	NA	14.10.07 (F7C1C)	3.9.31.1	14.10.07 (F7C1C)	3.9.31.1	
Mellanox CX4-LX	NA	NA	14.24.80.00 (H7X05)	4.16.13.5	14.24.80.00 (H7X05)	4.16.13.5	
iDRAC	2.63.60.61 (40T1C)		3.34.34.34 (3HT97)		3.34.34.34 (3HT97)		
PTAgent	1.9.1-59		1.9.1-59		1.9.1-59		
iSM	3.4-1471		3.4-1471		3.4-1471		
PM	1.16	2.07	1.08	1.11	1.03	1.04	
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)
CPLD	NA		See tables in section 9.1		See tables in section 9.1		
Chassis Mgmt Brd	NA		NA		See table in section 9.2		
IDSDM	NA		1.7		NA		
Software Item	Version						
VxRail Manager	4.5.400 14097253						
ESRS	See Section 8						
Log Insight	4.6.0 8080673						
vCenter	6.5 U3 14020092						
ESXI	6.5 U3 13932383						
Platform Service	4.5.400						

RTW = Release to Web

Man = SolVE Procedure Required to perform update

* - inbox driver

6.18 6.5 EP17 / 4.5.401

ESXi	6.5 EP17 (13G)		6.5 EP17 (14G)		6.5 EP17 (14G – G560/F)		
vSAN	6.6.1 EP16		6.6.1 EP16		6.6.1 EP16		
VxRail	4.5.401		4.5.401		4.5.401		
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 (TF1M6)	17.00.02.00*	16.17.00.05 (TF1M6)	17.00.02.00*	16.17.00.05 (TF1M6)	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)	1.4.6	NA	NA	NA	NA	
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 (not supported on 13G)	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)	214.0.190.0	21.40.22.21 (6DR4K)	214.0.190.0	
Qlogic 41112/41162/41164	NA	NA	14.10.07 (F7C1C)	3.9.31.1	14.10.07 (F7C1C)	3.9.31.1	
Mellanox CX4-LX	NA	NA	14.24.80.00 (H7X05)	4.16.13.5	14.24.80.00 (H7X05)	4.16.13.5	
iDRAC	2.70.70.70 (DNH17)		3.36.36.37 (8KD4H)		3.36.36.37 (8KD4H)		
PTAgent	1.9.1-59		1.9.1-59		1.9.1-59		
iSM	3.4-1471		3.4-1471		3.4-1471		
PM	1.16	2.07	1.08	1.11	1.03	1.04	
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)
CPLD	NA		See tables in section 9.1		See tables in section 9.1		
Chassis Mgmt Brd	NA		NA		See table in section 9.2		
IDSDM	NA		1.7		NA		
Software Item	Version						
VxRail Manager	4.5.401 15195796						
ESRS	See Section 8						
Log Insight	4.6.0 8080673						
vCenter	6.5 U3d 14836121						
ESXI	6.5 EP17 14990892						
Platform Service	4.5.401						

RTW = Release to Web

Man = SolVE Procedure Required to perform update * - inbox driver

6.19 6.5 EP18 / 4.5.402

ESXi	6.5 EP18 (13G)		6.5 EP18 (14G)		6.5 EP18 (14G – G560/F)		
vSAN	6.6.1 EP18		6.6.1 EP18		6.6.1 EP18		
VxRail	4.5.402		4.5.402		4.5.402		
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 (YXWY1)	17.00.02.00*	NA	NA	
NDC and NICs	FW	Driver	FW	Driver	FW	Driver	
Intel i350	18.8.9 (YHF9V)	1.4.6	NA	NA	NA	NA	
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 (not supported on 13G)	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)	214.0.190.0	21.40.22.21 (6DR4K)	214.0.190.0	
Qlogic 41112/41162/41164	NA	NA	14.10.07 (F7C1C)	3.9.31.1	14.10.07 (F7C1C)	3.9.31.1	
Mellanox CX4-LX	NA	NA	14.24.80.00 (H7X05)	4.16.13.5	14.24.80.00 (H7X05)	4.16.13.5	
iDRAC	2.70.70.70 (DNH17)		3.36.36.37 (8KD4H)		3.36.36.37 (8KD4H)		
PTAgent	1.9.1-59		1.9.1-59		1.9.1-59		
iSM	3.4-1471		3.4-1471		3.4-1471		
PM	1.16	2.07	1.08	1.11	1.03	1.04	
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)
CPLD	NA		See tables in section 9.1		See tables in section 9.1		
Chassis Mgmt Brd	NA		NA		See table in section 9.2		
IDSDM	NA		1.7		NA		

Software Item	Version
VxRail Manager	4.5.402 15266363
ESRS	See Section 8
Log Insight	4.6.0 8080673
vCenter	6.5 U3d 14836121
ESXI	6.5 EP18 15177306
Platform Service	4.5.402

RTW = Release to Web

Man = SOLVE Procedure Required to perform update * - inbox driver

6.20 6.5 P04 / 4.5.420

ESXi	6.5 P04 (13G)		6.5 P04 (14G)		6.5 EP04 (14G – G560/F)		
vSAN	6.6.1 P04		6.6.1 P04		6.6.1 P04		
VxRail	4.5.420		4.5.420		4.5.420		
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	19.0.12 (GK57C)	1.4.10	NA	NA	NA	NA	
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 (not supported on 13G)	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)	4.16.13.5	14.25.10.20 (KTK6H)	4.16.13.5	
iDRAC	2.70.70.70 (DNH17)		3.36.36.37v3 (8KD4H)		3.36.36.37v3 (8KD4H)		
PTAgent	1.9.4-41		1.9.4-41		1.9.4-41		
Ism	3.4.1-1818		3.4.1-1818		3.4.1-1818		
PM	1.16	2.07	1.08	1.11	1.03	1.04	
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)		NA		
Non-Expander BP	2.25 (HRP1V)		4.32 (S570 only) (TJCXW)		4.18 (RW0VY)	4.23 (8J57Y)	4.27 (WVG4W) (Factory)
CPLD	NA		See tables in section 9.1		See tables in section 9.1		
Chassis Mgmt Brd	NA		NA		See table in section 9.2		
IDSDM	NA		1.9 (3N5TF)		NA		

Software Item	Version
VxRail Manager	4.5.420 15404558
ESRS	See Section 8
Log Insight	4.8.0 13036238
vCenter	6.5 U3f 15259038
ESXI	6.5 EP04 15256549
Platform Service	4.5.420

RTW = Release to Web

Man = SOLVE Procedure Required to perform update * - inbox driver

7 VxRail with ESXi 6.7 supported firmware and drivers

7.1 6.7 EP5 / 4.7.000

ESXi	6.7 EP5 (13G)		6.7 EP5 (14G)		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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	
Software Item	Version					
VxRail Manager	4.7.000 10825282					
ESRS	See Section 8					
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

7.2 6.7 EP5 / 4.7.001

ESXi	6.7 EP5 (13G)		6.7 EP5 (14G)		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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.7.001 11073036
ESRS	See Section 8
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

7.3 6.7 EP5 / 4.7.100

ESXi	6.7 EP6 (13G)		6.7 EP6 (14G)		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) 15.17.09.06 (MF6CM)	17.00.01.00 16.00.01.00	16.17.00.03 ((8VCXF) 15.17.09.06 (MF6CM)	17.00.01.00 16.00.01.00	16.17.00.03 (8VCXF) 15.17.09.06 (MF6CM)	17.00.01.00 16.00.01.00
HBA330 Adapter	NA	NA	16.17.00.03 (08TG4) 15.17.09.06 (MF6CM)	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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	
Software Item	Version					
VxRail Manager	4.7.100 11859440					
ESRS	See Section 8					
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

7.4 6.7 EP6 / 4.7.110

ESXi	6.7 EP6 (13G)		6.7 EP6 (14G)		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 (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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.7.110 12663824
ESRS	See Section 8
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

7.5 6.7 EP7 / 4.7.111

ESXi	6.7 EP7 (13G)		6.7 EP7 (14G)		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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.7.111 13048811
ESRS	See Section 8
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

7.6

6.7 U2 / 4.7.200

ESXi	6.7 U2 (13G)		6.7 U2 (14G)		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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.7.200 13531218
ESRS	See Section 8
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

7.7

6.7 EP09 / 4.7.210

ESXi	6.7 EP09 (13G)		6.7 EP09 (14G)		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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.7.210 13820133
ESRS	See Section 8
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

7.8

6.7 EP09 / 4.7.211

ESXi	6.7 EP09 (13G)		6.7 EP09 (14G)		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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.7.211 13893929
ESRS	See Section 8
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

7.9

6.7 EP10 / 4.7.212

ESXi	6.7 EP10 (13G)		6.7 EP10 (14G)		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	NA	NA
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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.7		NA	

Software Item	Version
VxRail Manager	4.7.212 14215560
ESRS	See Section 8
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

7.10 6.7 U3 / 4.7.300

ESXi	6.7 U3 (13G)		6.7 U3 (14G)		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	NA	NA
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(Factory)	1.03	1.04(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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.9		NA	

Software Item	Version
VxRail Manager	4.7.300 14450150
ESRS	See Section 8
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

7.11 6.7 EP13 / 4.7.301

ESXi	6.7 EP13 (13G)		6.7 EP13 (14G)		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	NA	NA
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(Factory)	1.03	1.04(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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.9		NA	

Software Item	Version
VxRail Manager	4.7.301 15195814
ESRS	See Section 8
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

7.12 6.7 U3 / 4.7.400

ESXi	6.7 U3 (14G – E560N)	6.7 U3 (14G – 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(Factory)	1.0(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 9.1	
Chassis Mgmt Brd	NA	
IDSDM	1.9	

Software Item	Version
VxRail Manager	4.7.400 14824664
ESRS	See Section 8
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 = SolVE Procedure Required to perform update * Inbox driver

7.13 6.7 P01 / 4.7.410

ESXi	6.7 P01 (13G)		6.7 P01 (14G)		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	NA	NA
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	3.4.1-1471 (81T7H)		3.4.1-1471 (81T7H)		3.4.1-1471 (81T7H)	
PM	1.16	2.07	1.11	P580N 1.0	1.03	1.04(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 9.1		See tables in section 9.1	
Chassis Mgmt Brd	NA		NA		See table in section 9.2	
IDSDM	NA		1.9		NA	

Software Item	Version
VxRail Manager	4.7.410 26262335
ESRS	See Section 8
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

8 SRS / ESRS Tables

Solution	Version	Publish Date	4.7.4xx	4.7.3xx	4.7.2xx	4.7.1xx
ESRS VE (Internal)	3.40.xx.xx	2019/10	Y**	Y**	Y**	Y**
	3.38.xx.xx	2019/08	Y**	Y**	Y**	Y**
	3.36.00.10	2019/04	Y*	Y*	Y**	Y**
	3.28.0006	2018/08			Y*	Y*
ESRS VE (External)	3.40	2019/10	Y	Y	Y	Y
	3.38	2019/08	Y	Y	Y	Y
	3.36	2019/04	Y	Y	Y	Y
	3.34	2019/02	Y	Y	Y	Y
	3.32	2018/11	Y	Y	Y	Y
	3.28	2018/08	Y	Y	Y	Y
	3.26	2018/01	Y	Y	Y	Y
	3.24	2017/12	Y	Y	Y	Y

Solution	Version	Publish Date	4.5.4xx	4.5.3xx	4.5.2xx/ 4.5.15x	4.5.10x/ 4.5.0x	4.0.6xx/ 4.0.5xx/ 4.0.4xx
ESRS VE (Internal)	3.40.xx.xx	2019/10	Y**	Y**	Y**	Y**	Y**
	3.38.xx.xx	2019/08	Y**	Y**	Y**	Y**	Y**
	3.36.00.10	2019/04	Y*	Y**	Y**	Y**	Y**
	3.28.0006	2018/08		Y*	Y**	Y**	Y**
	3.24	2017/12			Y*	Y*	Y*
	3.20.2008					Y*	
ESRS VE (External)	3.40	2019/10	Y	Y	Y	Y	
	3.38	2019/08	Y	Y	Y	Y	
	3.36	2019/04	Y	Y	Y	Y	
	3.34	2019/02	Y	Y	Y	Y	
	3.32	2018/11	Y	Y	Y	Y	
	3.28	2018/08	Y	Y	Y	Y	
	3.26	2018/01	Y	Y	Y	Y	
	3.24	2017/12	Y	Y	Y	Y	Y
	3.20					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

9 Unsupported Life Cycle Management (LCM) Devices

9.1 CPLD – Valid versions

Major Rel	VxRail Release	Date		CPLD for E560			CPLD for P/V/S570				CPLD for G560				CPLD for P580N
		RTW	RTS	1.0.1 6/9/17	1.0.2 6/12/18	1.0.6 9/17/19	1.0.1 6/9/17	1.0.6 11/16/18	1.0.7 3/5/19	1.1.3 6/18/19	1.0.6 12/28/17	1.0.7 10/16/18	1.0.9 6/18/19	1.1.0 12/6/19	1.0.6 12/10/19
4.5.x	4.5.070	10/18/17	11/22/17	X			X								
	4.5.101		12/28/17	X			X				X				
	4.5.150	2/2/18		X			X				X				
	4.5.152	4/3/18		X			X				X				
	4.5.200	4/9/18	4/17/18	X	X		X				X				
	4.5.210	5/10/18		X	X		X				X				
	4.5.211	6/7/18		X	X		X				X				
	4.5.212	7/10/18		X	X		X				X				
	4.5.215		8/28/18		X		X	X	X		X	X			
	4.5.218	9/5/18		X	X		X	X	X		X	X			
	4.5.225	10/1/18		X	X		X	X	X		X	X			
	4.5.227	11/5/18		X	X		X	X	X		X	X			
	4.5.229	11/14/18		X	X		X	X	X		X	X			
	4.5.300	12/18/19		X	X		X	X	X		X	X			
	4.5.310	3/18/19	5/7/19	X	X		X	X	X		X	X			
	4.5.311	4/3/19		X	X		X	X	X		X	X			
	4.5.314	5/29/19		X	X		X	X	X		X	X			
	4.5.400	7/12/19	8/20/19	X	X	X	X	X	X	X	X	X	X		
4.5.401			X	X	X	X	X	X	X	X	X	X			
4.5.402	12/17/19		X	X	X	X	X	X	X	X	X	X			
4.5.420	1/10/20		X	X	X	X	X	X	X	X	X	X	X		
4.7.x	4.7.000	11/16/18	12/20/18		X			X	X			X			
	4.7.001	12/6/18			X			X	X			X			
	4.7.100	1/28/19			X			X	X			X			
	4.7.110	3/18/19	5/7/19		X			X	X			X			
	4.7.111	4/1/19			X			X	X			X			
	4.7.200	5/8/19			X			X	X			X			
	4.7.210	6/4/19	7/16/19		X			X	X	X		X			
	4.7.211	6/20/19			X			X	X	X		X			
	4.7.212	7/30/19			X			X	X	X		X			
4.7.300	8/20/19	10/15/19		X	X		X	X	X		X	X			

Major Rel	VxRail Release	Date		CPLD for E560			CPLD for P/V/S570				CPLD for G560				CPLD for P580N
		RTW	RTS	1.0.1 6/9/17	1.0.2 6/12/18	1.0.6 9/17/19	1.0.1 6/9/17	1.0.6 11/16/18	1.0.7 3/5/19	1.1.3 6/18/19	1.0.6 12/28/17	1.0.7 10/16/18	1.0.9 6/18/19	1.1.0 12/6/19	1.0.6 12/10/19
	4.7.301				X	X		X	X	X		X	X		
	4.7.400		12/10/19			X									X
	4.7.410	12/17/19			X	X		X	X	X		X	X	X	X

CPLD SWBs per release:

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

E560N – 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) (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)

Notes:

1. LCM for CPLD is not supported.
2. VxRail does NOT lock CPLD in the factory for E560, P/V/S570, G560. When new versions of CPLD are released by PowerEdge, they are immediately cut-in to the VxRail systems that ship from Mfg.
3. For the G560 platform, CPLD versions change as the Chassis Management Controller/Board changes. LCM is not supported for the Chassis Management Controller/Board.

9.2 Chassis Management Board – Valid Versions

	VxRail Release	Date		CMC for G560			
		RTW	RTS	1.53.00.00 3/6/18	1.67.00.00 3/5/19	1.70.00.00 6/12/19	2.1.4 9/16/19
Major Rel	4.5.200	4/9/18	4/17/18	X			
	4.5.210	5/10/18		X			
	4.5.211	6/7/18		X			
	4.5.212	7/10/18		X			
	4.5.215		8/28/18	X			
	4.5.218	9/5/18		X			
	4.5.225	10/1/18		X			
	4.5.227	11/5/18		X			
	4.5.229	11/14/18		X			
	4.5.300	12/18/19		X			
	4.5.310	3/18/19	5/7/19	X	X		
	4.5.311	4/3/19		X	X		
	4.5.314	5/29/19		X	X		
	4.5.400	7/12/19	8/20/19	X	X		
	4.7.x	4.7.000	11/16/18	12/20/18	X		
4.7.001		12/6/18		X			
4.7.100		1/28/19		X			
4.7.110		3/18/19	5/7/19	X			
4.7.111		4/1/19		X			
4.7.200		5/8/19		X	X		
4.7.210		6/4/19	7/16/19	X	X		
4.7.211		6/20/19		X	X		
4.7.212		7/30/19		X	X		
4.7.300		8/20/19	10/15/19	X	X	X	
4.7.400			12/10/19	NA	NA	NA	
4.7.410		12/17/19		X	X	X	X

G560/F – 1.53.00.00 (MF2H1), 1.67.00.00 (CCK6H), 1.70.00.00 (PF3RM) (Current Factory)

Notes:

1. LCM is not supported for the Chassis Management Controller/Board.

10 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

Drive LCM Detail:

Vendor	Description	Model	First Date Supported on VxRail	First LCM Release	
				4.5.x	4.7.x
Toshiba	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
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
	P4610 1600 GB NVMe SSD MU	SSDPE2KE016T8TP	Apr-2019	4.5.400	4.7.212
	P4800X 375 GB	SSDP321K375GATP	Jun-2019	4.5.400	4.7.212
Samsung	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
	PM863a 1920 GB SATA SSD	MZ7LM1T9HMJPOD3	Nov-2017	4.5.300	4.7.000
	PM883 1920 GB SATA SSD	MZ7LH1T9HMLT0D3	Dec-2018	TBD	4.7.300
	PM883 3840 GB SATA SSD	MZ7LH3T8HMLT0D3	Dec-2018	TBD	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

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

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, NDC	4.5		4.5.210	4.7.000
	Intel X520/i350 DP 10Gb BT and DP 1Gb, NDC	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, NDC	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
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
Mellanox	CX4-LX DP 25GbE SFP28 Rndc/FH/LP		4.7.210	4.5.400	4.7.212

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

11 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.

Major Rel	VxRail Release	Mellanox CX5 100GbE		EMULEX Lpe 31002 16Gb FC HBA		Qlogic 2692 16Gb FC HBA	
		FW	Driver	FW	Driver	FW	Driver
4.5.x	4.5.400						
	4.5.420	16.25.40.62	4.16.13.5 nmlx5-core				
4.7.x	4.7.300						
	4.7.301						
	4.7.400	16.25.40.62	4.17.15.16 nmlx5-core	03.01.41	12.2.373.1 lpfc	15.00.00.00	3.1.16.0 qlnativefc
	4.7.410						

12 Supported Boot Devices

Table 4 Supported appliance boot device

13th Generation

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

14th Generation

Form Factor	Model	Disk Space	Vendor	Min FW	Latest FW	SWB	Supported Platforms
SATA M.2	SSDSCKJB240G7R	240 GB	Intel DC S3520	DL42	DL43	CHJGV	E560/F, P570/F, V570/F, S570, G560
	SSDSCKKB240G8R	240 GB	Intel S4510	DL6N	DL6P	WK5MH	E560/F, P570/F, V570/F, S570, G560
	MTFDDAV240TCB	240 GB	Micron 5100 Pro Boot	E006	E012	6FGD4	E560/F, P570/F, V570/F, S570, G560

13 Supported HDD and SSD

This section provides information about the supported hard drives and solid state drives. Highlighted items are “new” for this version of the document.

Table 5 Supported storage devices in servers.

Component	Part Number	Model	Min Rev	Latest Rev	Supported Platforms
Cache SAS SSD					
400GB HGST Write Intensive SAS SSD EOL	G1D1K	HUSMM1640ASS204	L380	L384	E460/F, P470/F, V470/F, S470
400GB Toshiba PM4 Write Intensive SAS SSD	5VHHG	PX05SMB040Y	AS03	AS0E	E460/F, P470/F, V470/F, S470 E560/F, P570/F, V570/F, S570, G560/F
400GB Toshiba PM5 Write Intensive SAS SSD	WGP72	KPM5XMUG400G	B018	B01C	E560/F, P570/F, V570/F, S570, G560/F E460/F, P470/F, V470/F, S470
800GB HGST Write Intensive SAS SSD EOL	CW988	HUSMM1680ASS204	L380	L384	E460/F, P470/F, V470/F, S470
800GB HGST Write Intensive SAS SSD	JDX4K	HUSMM3280ASS200	J158	J172	E560/F, P570/F, V570/F, S570, G560/F
800GB Samsung Mixed Use SAS SSD	D9NCK	MZILT800HAHQ0D3	DWF8	DWF8	E560/F, P570/F, V570/F, S570, G560/F
800GB Toshiba PM4 Write Intensive SAS SSD	CN3JH	PX05SMB080Y	AS03	AS0E	E460/F, P470/F, V470/F, S470 E560/F, P570/F, V570/F, S570, G560/F
800GB Toshiba PM5 Write Intensive SAS SSD	DHRVV	KPM5XMUG800G	B018	B01C	E560/F, P570/F, V570/F, S570, G560/F E460/F, P470/F, V470/F, S470
1.6TB HGST Write Intensive SAS SSD EOL	5HR3X	HUSMM1616ASS204	L380	L384	E460/F, P470/F, V470/F, S470
1.6TB Samsung Mixed Use SAS SSD	DR0HX	MZILT1T6HAJQ0D3	DWF8	DWF8	E560/F, P570/F, V570/F, S570, G560/F
1.6TB Toshiba PM4 Write Intensive SAS SSD	GVTYD	PX05SMB160Y	AS03	AS0E	E460/F, P470/F, V470/F, S470 E560/F, P570/F, V570/F, S570, G560/F
1.6TB Toshiba PM5 Write Intensive SAS SSD	W9G88	KPM5XMUG1T60	B018	B01C	E560/F, P570/F, V570/F, S570, G560/F E460/F, P470/F, V470/F, S470
Cache NVMe SSD					
375GB Intel P4800X	3DM57	SSDPE21K375GAT	E201DP31	E201DP31	E560/F/N, P570/F, G560/F, P580N

Component	Part Number	Model	Min Rev	Latest Rev	Supported Platforms
800GB Samsung PM1725a NVMe SSD	KWH83	MZWLL800HEHP-000D3	1.0.4	1.1.2	E560/F/N, P570/F, G560/F, P580N
1.6TB Samsung PM1725a NVMe SSD	JD6CH	MZWLL1T6HEHP-000D3	1.0.4	1.1.2	E560/F/N, P570/F, G560/F, P580N
1.6TB Samsung PM1725b NVMe SSD	4WDXY	MZWLL1T6HAJQ-000D3	1.0.0	1.0.0	E560/F/N, P570/F, G560/F, P580N
1.6TB Intel P4610 NVMe SSD	58V30	SSDPE2KE016T8T	VDV1DP21	VDV1DP21	E560/F/N, P570/F, G560/F, P580N
Capacity NVMe SSD					
960GB Toshiba RI CD5 NVMe SSD	DRC9H	SDFPF86DAB01	1.1.1	1.1.1	E560N, P580N
1TB Intel P4510 NVMe SSD	FJ9YX	SSDPE2KX010T8T	VDV1DP21	VDV1DP21	E560N, P580N
3.84TB Toshiba RI CD5 NVMe SSD	17C57	SDFPF84DAB01	1.1.1	1.1.1	E560N, P580N
4TB Intel P4510 NVMe SSD	5GMK0	SSDPE2KX040T8T	VDV1DP21	VDV1DP21	E560N, P580N
Capacity SAS SSD					
1.92TB HGST Read Intensive SAS SSD	VCWFG	HUSMR1619ASS204	H1D0	H1D6	E460/F, P470/F, V470/F, S470, G560/F
1.92TB Toshiba PM3 Read Intensive SAS SSD	R87FK	PX04SRB192	AM04	AM07	E460/F, P470/F, V470/F, S470, G560/F
1.92TB Toshiba PM4 Read Intensive SAS SSD	0FYFW	PX05SRB192Y	AS03	AS0E	E460F, P470F, V470F E560F, P570F, V570F, G560/F
1.92TB Toshiba PM5 Write Intensive SAS SSD	TDNP7	KPM5XRUG1T92	B018	B01C	E560/F, P570/F, V570/F, S570, G560/F E460/F, P470/F, V470/F, S470
1.92TB Samsung PM1633a Read Intensive SAS SSD	086DD	MZILS1T9HEJH0D3	DSL5	DSL8	E460F, P470F, V470F E560F, P570F, V570F, G560/F
1.92TB Samsung PM1643 Read Intensive SAS SSD	F0Vfy	MZILT1T9HAJQ0D3	DSF4	DSF8	E460F, P470F, V470F E560F, P570F, V570F, G560/F
1.92TB Micron 5200 Read Intensive SAS SSD		MTFDDAK1T9TDD	F003	F003	E560F, P570F, V570F, G560/F
3.84TB Toshiba PM3 Read Intensive SAS SSD	M09K5	PX04SRB384	AM04	AM07	E460/F, P470/F, V470/F, S470, G560/F
3.84TB Samsung PM1633a Read Intensive SAS SSD	JR1HP	MZILS3T8HMLH0D3	DSL5	DSL8	E460F, P470F, V470F E560F, P570F, V570F, G560/F

Component	Part Number	Model	Min Rev	Latest Rev	Supported Platforms
3.84TB Samsung PM1643 Read Intensive SAS SSD	X8F87	MZILT3T8HALS0D3	DSF4	DSF8	E460F, P470F, V470F E560F, P570F, V570F, G560/F
3.84TB Toshiba PM4 Read Intensive SAS SSD	XCRDV	PX05SRB384Y	AS03	AS0E	E460F, P470F, V470F E560F, P570F, V570F, G560/F
3.84TB Toshiba PM5 Write Intensive SAS SSD	N85XX	KPM5XRUG3T84	B018	B01C	E560/F, P570/F, V570/F, S570, G560/F E460/F, P470/F, V470/F, S470
7.68TB Toshiba RM5 Read Intensive vSAS SSD	5XD2F	KRM5XRUG7T68	B707	B707	E560F, P570F, V570F, G560/F
Capacity SATA SSD					
1.92TB Samsung PM863a Read Intensive SATA SSD	9W12R	MZ7LM1T9HMJP0D3	GC57	GC5B	E460F, P470F, V470F E560F, P570F, V570F, G560/F
1.92TB Samsung PM883 Read Intensive SATA SSD	Y24T6	MZ7LH1T9HMLT0D3	HE56	HE57	E560F, P570F, V570F, G560/F E460/F, P470/F, V470/F, S470
1.92TB Intel S4500 Read Intensive SATA SSD	XCN15	SSDSC2KB019T7R	DL56	DL5A	E460F, P470F, V470F E560F, P570F, V570F, G560/F
1.92TB Intel S4510 Read Intensive SATA SSD	C6K76	SSDSC2KB019T8R	DL63	DL67	E560F, P570F, V570F, G560F E460/F, P470/F, V470/F, S470
3.84TB Samsung PM863a Read Intensive SATA SSD	9Y3HD	MZ7LM3T8HMLP0D3	GC57	GC5B	E460F, P470F, V470F E560F, P570F, V570F, G560/F
3.84TB Samsung PM883 Read Intensive SATA SSD	FYP5F	MZ7LH3T8HMLT0D3	HE56	HE57	E560F, P570F, V570F, G560/F E460/F, P470/F, V470/F, S470
3.84TB Intel S4500 Read Intensive SATA SSD	3RRN8	SSDSC2KB038T7R	DL56	DL5A	E460F, P470F, V470F E560F, P570F, V570F, G560/F
3.84TB Intel S4510 Read Intensive SATA SSD	1RHK2	SSDSC2KB038T8R	DL63	DL67	E560F, P570F, V570F, G560F E460/F, P470/F, V470/F, S470
Capacity SAS HDD					
1.2TB 10K HGST Cobra F SAS HDD 2.5"	9XNF6 / 0KV02	HUC101812CSS204 / HUC101812CSS200	FJ23 / FU29	FJ39 / FU39	E460, P470, V470, S470 E560, P570, V570, S570, G560

Component	Part Number	Model	Min Rev	Latest Rev	Supported Platforms
1.2TB 10K Toshiba AL14SE Lite SAS HDD 2.5"	89D42 / 3K30N	AL14SEB120N / AL14SEB120NY	DM06 / EA01	DM06 / EA04	E460, P470, V470, S470 E560, P570, V570, S570, G560
1.2TB 10K Toshiba AL15SE SAS HDD 2.5"	01M0D	AL15SEB120NY	EF03	EF03	E460, P470, V470, S470 E560, P570, V570, S570, G560
1.8TB 10K Toshiba AL15SE SAS HDD 2.5"	0WRRF	AL15SEB18EQY	EF03	EF03	E560, P570, V570, S570, G560
2.4TB 10K Toshiba AL15SE SAS HDD 2.5"	F9NWX	AL15SEB24EQY	EF03	EF03	E560, P570, V570, S570, G560
1.2TB 10K Seagate Thunderbolt SAS HDD 2.5"	WXPCX / FR6W6	ST1200MM0088 / ST1200MM0198	TT31 / UT71	TT31 / UT71	E460, P470, V470, S470 E560, P570, V570, S570, G560
1.2TB 10K Seagate Skybolt SAS HDD 2.5"	G2G54	ST1200MM0099	ST31	ST33	E460, P470, V470, S470 E560, P570, V570, S570, G560
1.8TB 10K Seagate Skybolt SAS HDD 2.5"	JY57X	DL1800MM0159	ST51	ST53	E560, P570, V570, G560
2.4TB 10K Seagate Skybolt SAS HDD 2.5"	RWR8F	DL2400MM0159	ST51	ST53	E560, P570, V570, G560
2TB 7.2K Seagate Avenger NLSAS HDD 2.5"	FVX7C / TMVN7	ST2000NX0433 EOL / ST2000NX0463	NS02 / NT31	NS02 / NT32	E460, P470, V470 E560, P570, V570, G560
4TB 7.2K Seagate Makara BP NLSAS HDD 3.5"	YXG4K / 5JH5X	ST4000NM0025 EOL / ST4000NM0295	DS04 / DT31	DS04 / DT31	S470 S570
4TB 7.2K Toshiba Tomcat R NLSAS HDD 3.5"	0F9W8 / 1MVT	MG04SCA40EN / MG04SCA40ENY	DS07 / EG03	DS07 / EG03	S470 S570
4TB 7.2K HGST Aries K Plus NLSAS HDD 3.5"	TX8WW / X4FKY	HUS726040ALS214 / HUS726040ALS210	KJ03 / KU27	KJ03 / KU27	S470 S570
4TB 7.2k HGST Vela-A NLSAS HDD 3.5"	NT1X2	HUS726T4TALS200	PU01	PU01	S570

14 Power Supplies

Component	Platforms	Rev	PE Release Date
Delta 750W	E560/F	00.24.7D	9/26/17
Emerson 750W	E560/F	00.1B.53	9/26/17
LiteOn 750W	E560/F	00.23.32	9/26/17
Delta 1100W	E560/F, P570/F, V570/F, S570	00.1D.7D	9/26/17
LiteOn 1100W	E560/F, P570/F, V570/F, S570	00.23.32	9/26/17
Emerson 1100W 48VDC	E560/F	04.08.24 04.08.26	9/26/17 6/12/18
Delta 1100W 380 HVDC	E560/F	00.14.8A	12/12/17
Delta 1600W	P570/F, V570/F, S570	00.3D.67	9/26/17
Delta 2000W	P570/F, V570/F, S570	00.11.1A	9/26/17
Artesyn 2400W	P580N	00.2A.72	9/9/2019

15 Supported switches

This section provides information about the supported switches by the VxRail appliances.

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.

16 Dell Networking SmartFabric Support

Table 1 VxRail & SmartFabric

ITEM	SUPPORTED ITEM/VERSION
VxRail Nodes	E560/F, G560/F, P/V/S570/F
VxRail Network Ports	10Gb, 25Gb
VxRail Deployment Model	New installs only (no upgrades)

Table 2 Dell Networking & SmartFabric

ITEM	SUPPORTED ITEM/VERSION
Dell Ethernet Switch License	OS10 Enterprise Edition
Dell SmartFabric mode	A pair of identical Dell Ethernet switches only
Dell Ethernet Switch Data Ports	SFP28, SFP+, RJ45
Dell Ethernet Switch Uplink/ICL Ports	QSFP28, QSFP+, SFP+, RJ45

Table 3 VxRail/Dell Switch/SmartFabric Version Support Matrix

VXRAIL NIC	SWITCH MODEL	VXRAIL VERSION	OS10 VERSION	OMNI PLUG-IN VERSION
10Gb & 25Gb	S5212F-ON S5224F-ON S5248F-ON S5296F-ON	4.7.410	10.5.0.2	1.1.29
		4.7.410	10.5.0.0P5	1.1.29
		4.7.301	10.5.0.0P5	1.1.29
		4.7.301	10.4.3.4	1.1.29
		4.7.300	10.5.0.0P5	1.1.29
		4.7.300	10.4.3.4	1.1.29
		4.7.210 - .212	10.4.3.6	1.1.29
		4.7.210 - .212	10.4.3.4	1.1.29
10Gb	S4112-ON S4128-ON S4148-ON	4.7.410	10.5.0.2	1.1.29
		4.7.410	10.5.0.0P5	1.1.29
		4.7.301	10.5.0.0P5	1.1.29
		4.7.301	10.4.3.4	1.1.29
		4.7.300	10.5.0.0P5	1.1.29
		4.7.300	10.4.3.4	1.1.29
		4.7.210 - .212	10.4.3.6	1.1.29
		4.7.210 - .212	10.4.3.4	1.1.29

		4.7.210 - .212	10.4.1.4	1.0
		4.7.110 - .111	10.4.1.4	1.0
		4.7.000 - .001	10.4.1.4	1.0

Table 4 VxRail/Dell SmartFabric Feature Support

VXRAIL VERSION	OS10 VERSION	Single Rack (Layer 2)	Single Rack (HW VTEP*)	Multi Rack (Layer 3)	Multi Rack (HW VTEP*)	Multi-Site	Stretched Cluster	Cloud Foundation on VxRail
4.7.410	10.5.0.2	Y	N	N	N	N	N	N
4.7.410	10.5.0.0P5	Y	N	N	N	N	N	N
4.7.301	10.5.0.0P5	Y	N	N	N	N	N	N
4.7.301	10.4.3.4	Y	N	N	N	N	N	N
4.7.300	10.5.0.0P5	Y	N	N	N	N	N	N
4.7.300	10.4.3.4	Y	N	N	N	N	N	N
4.7.210-212	10.4.3.6	Y	N	N	N	N	N	N
4.7.210-212	10.4.3.4	Y	N	N	N	N	N	N
4.7.210-212	10.4.1.4	Y	N	N	N	N	N	N
4.7.110-111	10.4.1.4	Y	N	N	N	N	N	N
4.7.000-001	10.4.1.4	Y	N	N	N	N	N	N

* VTEP enables the sending and receiving Layer 2 traffic over a Layer 3 network between two Dell Ethernet switches

17 VMware Cloud Foundation on VxRail

Table 5 Dell-EMC VxRail Hardware

ITEM	SUPPORTED VERSION
VxRail Node Hardware	Dell 14G
Minimum Ethernet ports per VxRail Node	4
Minimum Ethernet port speed per VxRail Node	10Gb

Table 6 VMware Cloud Foundation on VxRail Network

ITEM	Required
Multicast	Yes
Jumbo Frames	Yes
IGMP Snooping and Snooping Querier	Yes
Border Gateway Protocol	Required to peer with NSX Edge Gateway
Hardware VTEP	Required for multi-rack deployments

17.1 VCF 3.7.*

ITEM	VERSION		
	3.7	3.7.1	3.7.2
VMware Cloud Foundation	3.7	3.7.1	3.7.2
VMware Cloud Foundation Cloud Builder for VxRail VM	2.0	2.0.1	2.0.2
VMware Cloud Foundation SDDC Manager	3.7.0	3.7.1	3.7.2
VMware vCenter Server Appliance	6.7 Update 1b		6.7 Update 2a
VMware Platform Services Controller	6.7 Update 1b		6.7 Update 2a
VMware NSX Data Center for vSphere	6.4.4		6.4.4
VMware NSX-T Data Center	N/A		N/A

Dell-EMC VxRail Software

ITEM	VERSION		
	4.7.110	4.7.111	4.7.211
Dell EMC VxRail	4.7.110	4.7.111	4.7.211
Dell EMC ESRS	3.28.00.06		
VMware vSphere (ESXi)	6.7 EP6 (11675023)	6.7 EP7 (13004448)	6.7 EP9 (13644319)
VMware vSAN	6.7 EP6 (11675023)		6.7 EP9 (13644319)

VMware vRealize Suite (Supported by VCF 3.7, 3.7.1, 3.7.2)

ITEM	SUPPORTED VERSION	
	2.0 P2 (Build 11187327)	2.1 P1
VMware vRealize Suite Lifecycle Manager	2.0 P2 (Build 11187327)	2.1 P1
VMware vRealize Log Insight	4.7	
vRealize Log Insight Content Pack for NSX for vSphere	3.8	
vRealize Log Insight Content Pack for NSX-T	N/A	3.2
vRealize Log Insight Content Pack for Linux	1.0	
vRealize Log Insight Content Pack for vRealize Automation 7.3+	2.1	
vRealize Log Insight Content Pack for vRealize Orchestrator 7.0.1+	2.0	
VMware vRealize Operations Manager	7.0 (Build 10098133)	7.0
VMware vRealize Automation	7.5 (Build 10053539)	7.6
Horizon	7.7 (Build 11038474)	7.7

VMware Horizon (Supported by VCF 3.7, 3.7.1, 3.7.2)

ITEM	SUPPORTED VERSION	
	7.7 (Build 11038474)	7.7
Horizon	7.7 (Build 11038474)	7.7

17.2 VCF 3.8.*

ITEM	VERSION	
VMware Cloud Foundation	3.8	3.8.1
VMware Cloud Foundation Cloud Builder for VxRail VM	2.1.0.0 (14172583)	2.1.1.0 (14487798)
VMware Cloud Foundation SDDC Manager	3.8.0 (14172583)	3.8.1 (14487798)
VMware vCenter Server Appliance	6.7 U2c (14070457)	6.7 U3 (14367737)
VMware Platform Services Controller	6.7 U2c (14070457)	6.7 U3 (14367737)
VMware NSX Data Center for vSphere	6.4.5 (13282012)	
VMware NSX-T Data Center	2.4.1 (13716575)	2.4.2 P1 (14374081)
VMware Enterprise PKS	N/A	1.4.1

Dell-EMC VxRail Software (Version 4.7.212, 4.7.300)

ITEM	VERSION	
Dell EMC VxRail	4.7.212	4.7.300
Dell EMC ESRS	3.28.00.06	3.36.00.10
VMware vSphere (ESXi)	6.7 EP10 (13981272)	6.7 U3 (14320388)
VMware vSAN	6.7 EP 10 (13805960)	6.7 U3 (14263135)

VMware vRealize Suite (Supported by VCF 3.8, 3.8.1)

ITEM	SUPPORTED VERSION	
VMware vRealize Suite Lifecycle Manager	2.1 P1 (13685821)	2.1 P2 (14062628)
VMware vRealize Log Insight	4.8 (13036238)	
vRealize Log Insight Content Pack for NSX for vSphere	3.8	3.9
vRealize Log Insight Content Pack for Linux	1.0	1.0
vRealize Log Insight Content Pack for vRealize Automation 7.3+	2.1	2.2
vRealize Log Insight Content Pack for vRealize Orchestrator 7.0.1+	2.0	2.0
vRealize Log Insight Content Pack for NSX-T	3.2	3.7
VSAN Content Pack for Log Insight	2.0	2.0
VMware vRealize Operations Manager	7.0 (Build 13165949)	7.5 (13165949)
VMware vRealize Automation	7.5 (Build 13027280)	7.6 (13956742)

VMware Horizon 7 (Supported by VCF 3.8, 3.8.1)

ITEM	SUPPORTED VERSION	
Horizon 7	7.7 (Build 11038474)	7.9.0 (1302728)

17.3 VCF 3.9.*

ITEM	VERSION	
VMware Cloud Foundation	3.9	3.9.1
VMware Cloud Foundation Cloud Builder for VxRail VM	2.2.0.0 (14866160)	2.2.1.0 (15345960)
VMware Cloud Foundation SDDC Manager	3.9 (14866160)	3.9.1 (15345960)
VMware vCenter Server Appliance	6.7 U3 (14367737)	6.7 U3b (15132721)
VMware Platform Services Controller	6.7 U3 (14367737)	6.7 U3b (15132721)
VMware NSX Data Center for vSphere	6.4.5 (13282012)	6.4.6 (14819921)
VMware NSX-T Data Center	2.5 (14663974)	2.5 (14663974)
VMware Enterprise PKS	1.5 (14878150)	1.5 (14878150)

Dell-EMC VxRail Software

ITEM	VERSION	
Dell EMC VxRail	4.7.300	4.7.410
Dell EMC ESRS	3.36.00.10	
VMware vSphere (ESXi)	6.7 U3 (14320388)	6.7 P01 (15160138)
VMware vSAN	6.7 U3 (14263135)	6.7 P01 (15160138)

VMware vRealize Suite

ITEM	SUPPORTED VERSION	
VMware vRealize Suite Lifecycle Manager	2.1 P2 (14062628)	
VMware vRealize Log Insight	4.8 (13036238)	
vRealize Log Insight Content Pack for NSX for vSphere	3.9	
vRealize Log Insight Content Pack for Linux	1.0	2.0.1
vRealize Log Insight Content Pack for vRealize Automation 7.3+	2.2	
vRealize Log Insight Content Pack for vRealize Orchestrator 7.0.1+	2.1	
vRealize Log Insight Content Pack for NSX-T	3.8.2	
VSAN Content Pack for Log Insight	2.2	
VMware vRealize Operations Manager	7.5 (13165949)	
VMware vRealize Automation	7.6 (13027280)	

VMware Horizon 7

ITEM	SUPPORTED VERSION
Horizon 7	7.10 (Build 14584133)

18 Getting help

18.1 Contacting DellEMC

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 EMC Secure Remote Services (ESRS), you have to link your Online Support account to VxRail Manager under the same ID or it may not work properly.

18.2 Registering for online support

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

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

To register for online support:

1. Point your Web browser to **emc.com/vxrailsupport** (or support.emc.com).
2. Click **Register** here.
3. Fill in the required information.

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

18.3 Accessing support resources

You can access support resources for your Dell EMC VxRail™ appliance by one of the following:

- VxRail Manager Support
- emc.com/vxrailsupport (or support.emc.com)
- <https://solve.emc.com>

NOTE: Additional Dell EMC 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 – 13th Generation

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

Table 7 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

B Appendix – Disk slot placement rules – 13th Generation

VxRail appliances 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 appliance and should not be altered unless directed by a Dell EMC service professional.

B.1 Disk slot mapping – 13th Generation

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

C= Cache SSD

D= Capacity SSD or HDD

Table 8 Drive population rules for the Dell EMC 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 9 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 10 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

C Appendix – Disk slot placement rules – 14th Generation

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

Table 11 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)
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

D Appendix – Disk Slot Placement Rules – 14th Generation

VxRail appliances 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 appliance and should not be altered unless directed by a Dell EMC service professional.

D.1 Disk Slot Mapping – 14th Generation

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 12 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 13 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 14 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

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	
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
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	D	C, CN	C, CN	C, CN	C, CN

Table 15 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		

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	
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
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	D	C	C	C	C

Table 16 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 17 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

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	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	
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 18 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		
		0	0	0	0	0	0	0	0	0	0	0	0	0	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	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

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	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
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	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	DN	DN	CN	CN	CN	CN