

Dell Technologies carefully evaluates and monitors code deployment data to ensure product releases meet our stringent expectations to provide our customers with reliable products and solutions.

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Target Code

What is Target Code?

- Target Code is a specific revision of code that has met a minimum number of run time hours, installs and upgrades, and has demonstrated stability through customer usage.
- Target Code moves forward regularly as newer releases meet the criteria.
- Target Code is set at the third decimal place, and customers are encouraged to upgrade to the latest available patch level from the 'Drivers and Download' section of the Product Support Page.
- If a software version has recently been promoted to Target code, then "Latest Code" and "Target Code" for the product may be at the same revision of code.

Compatibility and Interoperability Solution: Please visit [E-Lab Navigator](#) for compatibility and Interoperability information on Target code/ Latest code for hardware and software configurations

Avamar

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
Avamar	19.9.0	22 May 2023	1.4M	19.9.0	24 Aug 2023	1.4M

Centera CenteraStar

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
Centera	4.3.2.3	31 May 2021	NA	4.3.2	31 May 2021	NA
• Customers are recommended to update Target Code with the minimum patch Centera 4.3.2.3						

Connectrix

Connectrix Code Family	Code Family	Target Code
B-Series FabricOS Code	DS-300B / 300	7.4.2j1*
B-Series FabricOS Code	DS-6505B / 6505	8.2.3d (FICON Supported)

B-Series FabricOS Code	DS-6510B / 6510	8.2.3d (FICON Supported)
B-Series FabricOS Code	DS-6520B / 6520	8.2.3d (FICON Supported)
B-Series FabricOS Code	DS-6610B / G610	9.1.1c (FICON Supported)
B-Series FabricOS Code	DS-6610B-LW	9.1.1c (FICON Supported) *
B-Series FabricOS Code	DS-6620B / G620	9.1.1c (FICON Supported)
B-Series FabricOS Code	DS-6620B-V2 / G620-V2	9.1.1c (FICON Supported)
B-Series FabricOS Code	DS-6630B / G630	9.1.1c (FICON Supported)
B-Series FabricOS Code	DS-6630B-V2 / G630-V2	9.1.1c (FICON Supported)
B-Series FabricOS Code	DS-7720B / G720	9.1.1c (FICON Supported)
B-Series FabricOS Code	DS-7730B	9.1.1c (FICON Supported)
B-Series FabricOS Code	ED-DCX8510-4B	8.2.3d (FICON Supported)
B-Series FabricOS Code	ED-DCX8510-8B	8.2.3d (FICON Supported)
B-Series FabricOS Code	ED-DCX6-4B	9.1.1c (FICON Supported)
B-Series FabricOS Code	ED-DCX6-8B	9.1.1c (FICON Supported)
B-Series FabricOS Code	ED-DCX7-4B	9.1.1c (FICON Supported)
B-Series FabricOS Code	ED-DCX7-8B	9.1.1c (FICON Supported)
B-Series FabricOS Code	MP-7800B	7.4.2j1*
B-Series FabricOS Code	MP-7810B	9.1.1c (FICON Supported)
B-Series FabricOS Code	MP-7840B	8.2.3d (FICON Supported)
D Series (Dell) OS Code	CNX-S4048	9.11(2.1)
FabricOS Code	MXG610	9.1.1c (FICON Supported)
B-Series Software	SANnav	2.2.2a
MDS Series (Cisco)	MDS-9132T	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9148S	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9148T	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9148V	9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9124V	9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9220i	8.5(1) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9250i (FICON)	8.4(2e) (FICON) 8.4(2f) (Not FICON) 9.2(1a) Non-Smart Licensing (Not FICON) 9.3(2a) Smart Licensing (Not FICON)
MDS Series (Cisco)	MDS-9396S	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing

Reference Code

MDS Series (Cisco)	MDS-9396T	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9706	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9706-V2 (FICON)	8.4(2e) (FICON) 8.4(2f) (Not FICON) 9.2(1a) Non-Smart Licensing (Not FICON) 9.3(2a) Smart Licensing (Not FICON)
MDS Series (Cisco)	MDS-9710	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9710-V2 (FICON)	8.4(2e) (FICON) 8.4(2f) (Not FICON) 9.2(1a) Non-Smart Licensing (Not FICON) 9.3(2a) Smart Licensing (Not FICON)
MDS Series (Cisco)	MDS-9718	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
MDS Series (Cisco)	MDS-9718-V3	8.4(2f) 9.2(1a) Non-Smart Licensing 9.3(2a) Smart Licensing
* = Only code available		

Data Protection Advisor (DPA)

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
DPA	19.9.0	22 May 2023	NA	19.9.0	24 Aug 2023	NA

Dell Unity

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
Dell Unity	5.3.1.0.5.008	12 Oct 2023	4.2M	5.3.1	11 Dec 2023	4.2M
- Customers are recommended to update Target Code with the latest patch 5.3.1.0.5.008 - Please refer Dell Security Advisory DSA-2023-349 for information and remediation for multiple security vulnerabilities for Dell Unity Family						

Elastic Cloud Storage (ECS)

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
ECS	3.8.0.4	16 Nov 2023	43k	3.8.0	2 Aug 2023	6.9M
- ECS 3.8.0 is Target code with a minimum patch of 3.8.0.2 - Customers are recommended to update Target Code with the latest patch ECS 3.8.0.4						

Greenplum Appliance (DCA)

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
DCA	4.3.1.0	27 Jul 2022	NA	4.3.1	27 Jul 2022	NA

Mainframe Enabler (MFE) for the PowerMax and HyperMax OS

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
Mainframe Enabler for PowerMax and VMAX	10.1.0.0	10 Oct 2023	NA	8.5.0	8 Feb 2022	NA

NetWorker

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
NetWorker	19.9.0.3	8 Dec 2023	NA	19.9.0	24 Aug 2023	NA
Customers are recommended to update Target Code with the latest NetWorker Patch 19.9.0.3						

PowerStore

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
PowerStore T Models	3.6.0.0	5 Oct 2023	1.4M	3.5.0	4 Oct 2023	8.1M
PowerStore X Models	3.2.1.1	31 Oct 2023	47k	3.2.1	29 Nov 2023	16.7M
- For PowerStore T Models - PowerStore 3.5.0 is Target code with a minimum patch of 3.5.0.1 - Customers are recommended to update Target Code with the patch PowerStore 3.5.0.2 - For PowerStore X Models - PowerStore 3.2.1 is Target code with a minimum patch of 3.2.1.1						

- Customers are recommended to update Target Code with the patch PowerStore 3.2.1.1
- For clusters that have SAS Expansion Enclosures, the target release is v3.2.0.1-1880392. Please refer to [KB 203131](#) for more details.

PowerVault

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
PowerVault ME4	GT280R011-01	5 Jun 2023	NA	GT280R011	20 Oct 2023	NA
PowerVault ME5	1.2.0.2	6 Oct 2023	NA	NA	NA	NA

RecoverPoint

RecoverPoint Physical (RP/SE,RP/CL,RP/EX)

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
RecoverPoint Physical	5.1.4.4	11 May 2023	239k	5.1.4	9 Mar 2020	57.1M
• Customers are recommended to update Target Code with the latest patch RecoverPoint Physical 5.1.4.4						

Recover Point for Virtual Machines

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
RecoverPoint for Virtual Machines	5.3.3.2	14 Dec 2022	NA	5.3.3	2 Feb 2023	NA
• Customers are recommended to update Target Code with the latest patch RecoverPoint for VM 5.3.3.2						

Solutions Enabler for the PowerMax and HyperMax OS

Major SW OE	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
Solutions Enabler for PowerMax and VMAX	10.1.0.0	17 Oct 2023	NA	10.0.1	27 Jul 2023	NA
• Embedded VMAX 10K (SN987) & 40K running the 5876 OE must remain on 8.4.0 • Embedded VMAX 100K, 200K, & 400K running the 5977 OE must remain on 8.4.0 • For 5876 and 5977, the minimum supported version is 8.4.0 • For 5978.221 and lower the minimum supported version is 9.0.0 • For 5978.479 and higher the minimum supported version is 9.1.0						

Unisphere for PowerMax and HyperMax OS

Major SW OE	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
Unisphere for PowerMax and VMAX	10.1.0.1	17 Oct 2023	NA	10.0.1	27 Jul 2023	NA
- Embedded VMAX 10K (SN987) & 40K running the 5876 OE must remain on 8.4.0 - Embedded VMAX 100K, 200K, & 400K running the 5977 OE must remain on 8.4.0 - For 5876 and 5977, the minimum supported version is 8.4.0 - For 5978.221 and lower the minimum supported version is 9.0.0 - For 5978.479 and higher the minimum supported version is 9.1.0						

OS for VMAX or PowerMax

Code Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
PowerMax 2000/8000	5978.714.714	18 Dec 2023	New Code	5978.711.711	5 Jul 2021	110.6M
PowerMax 2500/8500	10.1.0.0	17 Oct 2023	50k	10.0.1	27 Jul 2023	2.4M
- For VMAX 250F/FX, 450F/FX, 850F/FX and 950F/FX the Latest Code is 5978.714.714 - For VMAX 100K, 200K and 400K the Latest Code is 5977.1151.1151 - For VMAX 10K (SN987) and 40K the Latest Code is 5876.309.401(WES7 Image) / 5876.309.197(XP Image) - For PowerMax 2500 and 8500, Customers are recommended to update Target Code with the latest patch 10.0.1.4						

VPLEX

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
VPLEX VS2	6.2.0.7	27 Jul 2022	7M	6.2.0	3 Aug 2020	95.9M
VPLEX VS6	6.2.0.7	27 Jul 2022	7M	6.2.0	3 Aug 2020	95.9M
MetroNode	8.0.0.0	19 Sep 2023	NA	7.1.0	28 Aug 2023	NA
- VS2 Metro FC systems with Brocade switches configured with FCIP are recommended to upgrade to 6.2.0.07 or higher patch level. Ref: KBA 000170150 - VPLEX 6.2.0 is Target code with patch 6.2.0.3 or above. - Customers are recommended to update Target Code with the latest patch VPLEX 6.2.0.7						

XtremIO

Dell Product Family	Latest Code	Release Date	Run Time Hours	Target Code	Target Code Declared Date	Target Code Run Time Hours
XtremIO X2	6.4.1	18 Jul 2023	NA	6.4.0	14 Oct 2022	9.7M
Customers are recommended to update to Target Code with the latest patch 6.4.0-36						

LTS - Long Term Support

What is Long Term Support Release (LTS):

- An LTS release is a stable software release that is maintained with regular cadence of updates over a period of 3 years to ensure persistence for customers who seek a standard code line. LTS code lines offer support for a span of 3 years.
- New LTS code lines are initiated annually.
- LTS releases are set at the third number, and customers are encouraged to upgrade to the latest maintenance update from the 'Drivers and Download' section of the Product Support Page.
- Products following LTS will have no Target Code.
- To learn more about LTS, refer to [LTS Customer Support Summary](#) document.

PowerProtect DD

Dell Product Family	Latest Code	Release Date	Run Time Hours	LTS Releases	LTS Declared Date	LTS Run Time Hours
DDOS 7.x	7.12.0.0	15 Dec 2023	2.3M	LTS2023 7.10.1	28 Apr 2023	39.2M
				LTS2022 7.7.5	28 Jan 2022	170M
- Customers are recommended to update LTS2023 with the latest patch DDOS 7.10.1.15 - Customers are recommended to update LTS2022 with the latest patch DDOS 7.7.5.25 - DD2200 only - These models cannot update to DDOS 7.x. The recommended code level for these platforms is DDOS 6.2.1 with patch level 6.2.1.40 or above - The latest patch for DD OS 6.2.1 is 6.2.1.110						

PowerScale/Isilon OneFS

Dell Product Family	Latest Code	Release Date	Run Time Hours	LTS Releases	LTS Declared Date	LTS Run Time Hours
OneFS 9.x	9.7.0.0	13 Dec 2023	New Code	LTS2023 9.5.0	17 May 2023	69.6M
- Customers are recommended to update LTS Code with the latest rollup patch OneFS 9.5.0.6 - Important Announcement for OneFS 9.4.0 - Starting 15 Nov 2023, OneFS 9.4.0 will cease to be designated as a Target Code - OneFS 9.4.0 will follow the Standard Support Policy and be supported till 30 Apr 2025 - Customers using OneFS 9.4.0 are requested to upgrade to LTS2023 OneFS 9.5.0.6 or the latest release available for download - Important: Please note the latest Support Packages for PowerScale - PowerScale Drive Support Package - 1.46.1 - Isilon Drive Firmware Package - 1.18 - PowerScale Node Firmware Package - 11.7.3 - For more information refer KB Article - 198854						

Please refer to the release notes for the upgrade path special considerations. In case of queries please contact [Dell Technical Support](#)

Available Code

Products that do not declare Target or LTS code

CloudDR

Dell Product Family	Latest Code	Release Date	Run Time Hours
CloudDR	19.15	21 Nov 2023	NA

CyberRecovery

Dell Product Family	Latest Code	Release Date	Run Time Hours
CyberRecovery	19.15.0.0	21 Nov 2023	NA

DPC

Dell Product Family	Latest Code	Release Date	Run Time Hours
DPC	19.9.0.10	14 Sep 2023	NA

DP Search

Dell Product Family	Latest Code	Release Date	Run Time Hours
DP Search	19.6.3	22 May 2023	NA

DM5500 Appliance

Dell Product Family	Latest Code	Release Date	Run Time Hours
PowerProtect DM5500	5.15	21 Nov 2023	NA

IDPA

Dell Product Family	Latest Code	Release Date	Run Time Hours
IDPA	2.7.3	22 Nov 2022	NA
Customers using DP4400 can install IDPA 2.7.4			

PPDM

Dell Product Family	Latest Code	Release Date	Run Time Hours
PPDM	19.15	21 Nov 2023	NA

Powerflex

Dell Product Family	Latest Code	Release Date	Run Time Hours
PowerFlex Software	4.5.1	30 Nov 2023	NA
PowerFlex Rack	3.7.3.1	30 Nov 2023	NA
PowerFlex Appliance	45.373.01	30 Nov 2023	NA
PowerFlex Manager	4.5.1	30 Nov 2023	NA

ObjectScale

Dell Product Family	Latest Code	Release Date	Run Time Hours
ObjectScale	1.3.0	17 Oct 2023	NA

SRM

Dell Product Family	Latest Code	Release Date	Run Time Hours
SRM	4.10.0.0	4 Oct 2023	NA

Servers

Dell Product Family	Type	BIOS	iDRAC
14G platform			
POWEREDGE C6420	PEC	2.20.1	7.00.00.00
POWEREDGE M640	Modular	2.20.1	7.00.00.00
POWEREDGE M640 VRTX	Modular	2.20.1	7.00.00.00
POWEREDGE FC640	Modular	2.20.1	7.00.00.00
POWEREDGE MX740C	Modular	2.20.1	7.00.00.00
POWEREDGE MX840C	Modular	2.20.1	7.00.00.00
POWEREDGE R240	Rack	2.15.1	7.00.00.00
POWEREDGE R340	Rack	2.15.1	7.00.00.00
POWEREDGE R440	Rack	2.20.1	7.00.00.00
POWEREDGE R540	Rack	2.20.1	7.00.00.00
POWEREDGE R640	Rack	2.20.1	7.00.00.00
POWEREDGE R740	Rack	2.20.1	7.00.00.00
POWEREDGE R740XD	Rack	2.20.1	7.00.00.00
POWEREDGE R740XD2	Rack	2.20.1	7.00.00.00
POWEREDGE R840	Rack	2.20.1	7.00.00.00
POWEREDGE R940	Rack	2.20.1	7.00.00.00
POWEREDGE R940XA	Rack	2.20.1	7.00.00.00
POWEREDGE T40	Tower	1.13.0	-
POWEREDGE T140	Tower	2.15.1	7.00.00.00
POWEREDGE T340	Tower	2.15.1	7.00.00.00
POWEREDGE T440	Tower	2.20.1	7.00.00.00
POWEREDGE T640	Tower	2.20.1	7.00.00.00
POWEREDGE XE7420	XE	2.20.0	7.00.00.00
POWEREDGE XE7440	XE	2.20.0	7.00.00.00
POWEREDGE XR2	Telco	2.20.1	7.00.00.00

15G platform			
POWEREDGE C6520	PEC	1.12.1	7.00.60.00
POWEREDGE C6525	PEC	2.13.3	7.00.60.00
POWEREDGE MX750C	Modular	1.12.1	7.00.60.00
POWEREDGE R250	Rack	1.8.1	7.00.60.00
POWEREDGE R350	Rack	1.8.1	7.00.60.00
POWEREDGE R450	Rack	1.12.1	7.00.60.00
POWEREDGE R550	Rack	1.12.1	7.00.60.00
POWEREDGE R650	Rack	1.12.1	7.00.60.00
POWEREDGE R650XS	Rack	1.12.1	7.00.60.00
POWEREDGE R6515	Rack	2.13.3	7.00.60.00
POWEREDGE R6525	Rack	2.13.3	7.00.60.00
POWEREDGE R750	Rack	1.12.1	7.00.60.00
POWEREDGE R750XA	Rack	1.12.1	7.00.60.00
POWEREDGE R750XS	Rack	1.12.1	7.00.60.00
POWEREDGE R7515	Rack	2.13.3	7.00.60.00
POWEREDGE R7525	Rack	2.13.3	7.00.60.00
POWEREDGE T150	Tower	1.8.1	7.00.60.00
POWEREDGE T350	Tower	1.8.1	7.00.60.00
POWEREDGE T550	Tower	1.12.1	7.00.60.00
POWEREDGE XE8545	XE	2.13.3	7.00.60.00
POWEREDGE XR11	Telco	1.12.1	7.00.60.00
POWEREDGE XR12	Telco	1.12.1	7.00.60.00
POWEREDGE XR4510C	Telco	1.13.3	7.00.60.00
POWEREDGE XR4520C	Telco	1.13.3	7.00.60.00
16G platform			
POWEREDGE C6615	PEC	1.1.2	7.00.60.00
POWEREDGE C6620	PEC	1.6.6	7.00.60.00
POWEREDGE HS5610	HS	1.6.6	7.00.60.00
POWEREDGE HS5620	HS	1.6.6	7.00.60.00
POWEREDGE MX760C	Modular	1.6.6	7.00.60.00
POWEREDGE R660	Rack	1.6.6	7.00.60.00
POWEREDGE R660XS	Rack	1.6.6	7.00.60.00
POWEREDGE R6615	Rack	1.6.6	7.00.60.00
POWEREDGE R6625	Rack	1.6.8	7.00.60.00
POWEREDGE R760	Rack	1.6.6	7.00.60.00
POWEREDGE R760Xa	Rack	1.6.6	7.00.60.00
POWEREDGE R760xd2	Rack	1.6.6	7.00.60.00
POWEREDGE R760XS	Rack	1.6.6	7.00.60.00
POWEREDGE R7615	Rack	1.6.6	7.00.60.00
POWEREDGE R7625	Rack	1.6.8	7.00.60.00
POWEREDGE R860	Rack	1.6.6	7.00.60.00
POWEREDGE R960	Rack	1.6.6	7.00.60.00
POWEREDGE T560	Tower	1.6.6	7.00.60.00
POWEREDGE XE8640	XE	1.3.6	7.00.60.00

Reference Code

POWEREDGE XE9640	XE	1.3.6	7.00.60.00
POWEREDGE XE9680	XE	1.3.6	7.00.60.00
POWEREDGE XR5610	Telco	1.6.6	7.00.60.00
POWEREDGE XR7620	Telco	1.6.6	7.00.60.00
POWEREDGE XR8610T	Telco	1.6.6	7.00.60.00
POWEREDGE XR8620T	Telco	1.6.6	7.00.60.00