



## Customer View

### Data Domain: DDOS 7.x Minimum Disruptive Upgrade (MDU) and DDOS 7.2 Compatibility

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**Summary:** This article intends to help users conduct a 1 Hop upgrade from DDOS 6.x to DDOS 7.x using special MDU RPMs

## Instructions

## Data Domain Operating System (DDOS) 7.x Supported Platforms

DDOS 7.2 & Above	DD3300, DD4200, DD4500, DD6300, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900, and DDVE
DDOS 7.0 & 7.1	DD3300, DD6300, DD6800, DD6900, DD9300, DD9400, DD9800, DD9900, and DDVE

## Data Domain Operating System (DDOS) 6.x Supported Platforms

DDOS 6.x	DD160, DD620, DD990, DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6800, DD7200, DD9300, DD9500, and DD9800, and DDVE
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Those systems that are running DDOS 6.1.2.70, 6.2.1.0, and above can directly upgrade to DDOS 7.1.0.30 or DDOS 7.2.0.20 and later 7.x codes while those running older codes need to upgrade using MDU packages as explained below.

## Note:

- The Systems: DD4200, DD4500, DD7200, and DD9500 running DDOS 6.0.x can be upgraded to 7.0.0.20 and later while those running DDOS 6.1.x can be upgraded to 7.1.0.20 or later only to allow controller upgrades to the latest hardware and to enable Collection Replication to the latest hardware for systems without Cloud Tier. DDOS 7.0 and 7.1 are not supported for standard data protection operations on these DD systems. They should preferably be upgraded to DDOS 7.2
- Intra/Inter-family upgrades within DDOS 6.x does not require MDU upgrades.
- Intra/Inter-family upgrades within DDOS 7.x does not require MDU upgrades.
- Inter-family upgrades specifically between DDOS 6.x to DDOS 7.x need MDU upgrades.

## MDU ensures smooth upgrade by:

- Reducing the instances of DDOS 6.x panic when a DDOS 7.x .RPM is uploaded through the DDSM GUI.
- Avoiding upgrade failures from DDOS 6.1.x to DDOS 7.x (where 6.1.x < 6.1.2.40) due to larger .RPM size of DDOS 7.x.
- Avoiding reboots as MDU package installation does not require a system reboot.
- Helping users conduct a 1 Hop upgrade from DDOS 6.x to DDOS 7.x

## Non-MDU upgrade paths continue to function as is

## Example:

- DDOS 6.0.2.30 > DDOS 6.1.2.70\*\* > DDOS 7.1 / 7.2 / 7.3
- DDOS 6.1.1.30 > DDOS 6.1.2.70\*\* > DDOS 7.1 / 7.2 / 7.3
- DDOS 6.2.0.20 > DDOS 6.2.1.0\*\* > DDOS 7.1 / 7.2 / 7.3

- DDOS 6.2.0.35 > DDOS 7.1 / 7.2 / 7.3

\*\* Contain fixes present in MDU.

The recommended MDU paths to be taken for system running DDOS lower than 6.1.2.70 or 6.2.1.0 are:

- DDOS 6.0.x > [MDU-6.0](#) > DDOS 7.0.0.20 (use [7.0.0.20\\_6.0\\_to\\_7.0.rpm](#)) > DDOS 7.1 / 7.2 / 7.3
- DDOS 6.1.x > [MDU-6.1](#) > DDOS 7.1 / 7.2 / 7.3
- DDOS 6.2.x > [MDU-6.2](#) > DDOS 7.1 / 7.2 / 7.3

**Note:** When performing MDU installations using DD GUI, if the installation has not completed after 5 minutes, refresh the Maintenance >System page and check the upgrade status.

If you are a registered Dell EMC customer, you can download the latest DDOS from KB article 334649: [Data Domain: DD OS Software Versions](#).

**Prerequisites for upgrading to DDOS 7.x:**

- It is recommended to have at least 10% free space available on the Data Domain system before upgrade.
- Systems that are running DDOS 6.1, 6.2 or higher can upgrade directly to DDOS 7.2 and above with an MDU upgrade using the appropriate MDU bundle for the release.
  - Upload the MDU bundle `mdu-upgrade-bundle--releases.rpm` according to the version running on the system. For example, if the system is running 6.1.0.20, use upgrade bundle `mdu-upgrade-bundle-6.1-releases.rpm`. Upload the rpm to the same location as that of a system rpm, `/ddvar/releases/`.
  - Perform a system upgrade with the MDU rpm, which should take a few minutes.
  - After the MDU upgrade is completed successfully, move on to complete the upgrade to 7.2 / 7.3
- For collection replication: If replication is set up between the new PowerProtect DD system (DD6900, DD9400, and DD9900) as a source and other DD system as a destination, then the default local compression on the destination system must be set to `gzfast`.

**Upgrading to DDOS version 7.x:**

1. Download the upgrade file for DDOS 7.2 or above from the appropriate download or support site.
2. Store the file 7.x rpm, in the `/ddvar/releases` directory on the Data Domain system.

Do not rename any software upgrade package that was received for the system and its licensed features. Upgrade processes and procedures rely on the software package names being what they are. Renaming a software upgrade package causes the upgrade process to fail.

When downloading a system software upgrade image using Internet Explorer, the browser may add bracket and numeric characters to the upgrade image name. Remove the added characters before performing the system upgrade.

3. Ensure that the system is idle. All replication initialization and re-synchronization should be complete, and no backups

should be running. A useful command to assess the system's readiness is the **alert show current CLI operation**.

4. For systems that are already part of a replication pair before the upgrade, upgrade the destination system first, and then upgrade the source system. It is not necessary to disable replication on either system in the pair.
5. Stop (log out from) all DD System Manager sessions on the system.
6. Stop any active CIFS client connections before starting the upgrade. Use the **cifs show active** command to check for CIFS activity. Disconnect any client that is active. On the client, enter the command **net use \\dd\backup /delete**.
7. Follow the steps in DDOS Release Notes for the specific release to perform the upgrade.

#### DDMC Compatibility:

DDMC Release	Managed Systems Versions
7.0	6.0, 6.1, 6.2, 7.0, 7.1, 7.2
7.1	6.1, 6.2, 7.0, 7.1, 7.2, 7.3
7.2	6.1, 6.2, 7.0, 7.1, 7.2, 7.3, and the next release when it becomes available.
7.3	6.2, 7.0, 7.1, 7.2, 7.3, and the next two releases when they become available.

#### Upgrading DDMC:

DDMC release	Directly upgrades to:
7.2	7.3
7.1	7.2 or 7.3
7.0	7.1, 7.2, or 7.3
6.2	7.0, 7.1, 7.2, or 7.3
6.1	6.2, 7.0, 7.1, 7.2, or 7.3
2.0	6.1 or 6.2
1.4.5	2.0 or 6.1
1.3	1.4, 1.4.5, or 2.0
1.2	1.3 or 1.4

1.1	1.2 or 1.3
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For the exact upgrade steps, see the *DDMC Installation and Administration Guide* for the specific release, which is found on the Dell Support web site.

- Check the [Data Domain Compatibility Matrix](#) for the latest DDOS Compatibility.

#### Notes

#### Attachments

#### Article Properties

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**Primary Product** Data Domain

**Product** Data Domain,DD OS 7.2,Data Domain Virtual Edition,DD OS,Data Domain Virtual Edition DDVE\_5.0