# ONTAP software bundle update

ONTAP 9.12.1

# **ONTAP** update overview

- The DG5000 and DG7000 support ONTAP 9.12.1P4.
- ONTAP 9.12.1P4 has added support for Lenovo-specific VPD information.
- DG Series storage systems will support ONTAP 9.12.1P4 or any later versions.

#### **Existing Lenovo storage**

For the DM Series (DM7100F, DM5100F, DM3000/5000)

- ONTAP Unified Premium → Lenovo Unified Complete Software
- ONTAP Unified Fundamentals -> Lenovo Unified Essential Software

#### Example:

Old: Lenovo Unified Premium Bundle - ONTAP Unified 9.12.1

New: Lenovo Unified Complete Software 9.12.1P4



### DG5000 / DG7000 software bundle

License type	Feature name	Unified Complete	Unified Essential	Encryption Add-On
Controller-Based	NFS	V	V	
Controller-Based	CIFS	V	V	
Controller-Based	S3	V	V	
Controller-Based	FC	V	V	
Controller-Based	iscsi	V	V	
Controller-Based	NVMeoF	V	V	
Controller-Based	SnapRestore	V	V	
Controller-Based	FlexClone	V	V	
Controller-Based	MTKM	V	V	
Controller-Based	SnapLock	V	V	
Controller-Based	Autonomous Ransomeware Protection	٧		
Controller-Based	SnapMirror Async	V		
Controller-Based	SnapMirror Sync/Bus. Cont.	V		
Controller-Based	SnapVault	V		
Controller-Based	SnapCenter	V		

The DG5000 and DG7000 support two new bundles:

- Unified Complete
- Unified Essential

For more information about After Point of Sale (APOS) service upgrades, refer to the APOS Upgrade website.

## DG5000 / DG7000 software bundle

License type	Feature name	Unified Complete	Unified Essential	Encryption Add-On
Controller-Based	INVIVICUI	V	V	
Controller-Based	SnapRestore	V	V	
Controller-Based	FlexClone	V	V	
Controller-Based	MTKM	V	V	
Controller-Based	SnapLock	V	V	
Controller-Based	Autonomous Ransomeware Protection	V		
Controller-Based	SnapMirror Async	V		
Controller-Based	SnapMirror Sync/Bus. Cont.	V		
Controller-Based	SnapVault	V		
Controller-Based	SnapCenter	V		
Host-Based	SnapMirror Cloud	V		
Host-Based	S3 SnapMirror	V		
Host-Based	FabricPool	APOS		
Controller-Based	Volume Encryption			V
Controller-Based	Trusted Platform Module (TPM)			V

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## New ONTAP bundles vs current DM bundles

License type	Feature name	(New) Unified Complete	Unified Premium	(New) Unified Essential	Unified Base	Encryptio n Add-On
Controller-Based	NFS	V	V	V	٧	
Controller-Based	CIFS	٧	V	V	٧	
Controller-Based	S3	V	V	V	٧	
Controller-Based	FC	V	V	V	٧	
Controller-Based	iSCSI	V	V	V	V	
Controller-Based	NVMeoF	V	V	٧	٧	
Controller-Based	SnapRestore	V	V	V	V	
Controller-Based	FlexClone	V	V	V	V	
Controller-Based	MTKM	V	S&C	V		
Controller-Based	SnapLock	V	S&C	V		
Controller-Based	Autonomous Ransomeware Protection	V	S&C			
Controller-Based	SnapMirror Async	V	V			
Controller-Based	SnapMirror Sync/Bus. Cont.	V	٧			
Controller-Based	SnapVault	V	V			
Controller-Based	SnapCenter	V	V			

- S&C = Security and compliance bundle
- HC = Hybrid cloud bundle

## New ONTAP bundles vs current DM bundles

License type	Feature name	(New) Unified Complete	Unified Premium	(New) Unified Essential	Unified Base	Encryptio n Add-On
Controller-Based	FlexClone	V	V	V	V	
Controller-Based	MTKM	V	S&C	٧		
Controller-Based	SnapLock	V	S&C	V		
Controller-Based	Autonomous Ransomeware Protection	٧	S&C			
Controller-Based	SnapMirror Async	V	V			
Controller-Based	SnapMirror Sync/Bus. Cont.	٧	V			
Controller-Based	SnapVault	V	V			
Controller-Based	SnapCenter	٧	V			
Host-Based	SnapMirror Cloud	V	HC			
Host-Based	S3 SnapMirror	V				
Host-Based	FabricPool	APOS	HC	APOS		
Controller-Based	Volume Encryption					V
Controller-Based	Trusted Platform Module (TPM)					V

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# DG5000 / DG7000 license key change

The DG5000 and DG7000 will be released with a new ONTAP software license key structure.

- Current DM products have an individual license key for each feature.
- For the current Premium Bundle, there are 28 license keys per system, with 14 license keys allocated per controller.
- The DG Series will use a new license key structure called IPA NLF license key.
- License keys are generated for specific bundles, and they unlock all the features included in those bundles.
- Each DG Series system will be equipped with either two or four license keys, with one key allocated for the Software Bundle and one key for encryption on each controller.
- This license key structure will eventually be used on all DM products.

