



Learn about add-on services

Keystone

NetApp

February 10, 2026

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Learn about add-on services

Advanced data protection add-on for Keystone

You can subscribe to the advanced data protection (ADP) add-on service with your Keystone STaaS subscription. While standard Keystone services include default data protection using SnapMirror, SnapVault, and Snapshot, this add-on service uses NetApp MetroCluster technology to ensure efficient data protection of your mission-critical workloads with a recovery point objective (RPO) of 0.

Keystone advanced data protection service can synchronously mirror data to a secondary site. In case of a disaster at the primary site, the secondary site can take over, without any loss of data. This feature uses the [MetroCluster](#) configuration between two sites to enable data protection. You can use the advanced data protection add-on services for only your file and block storage services. As a part of this add-on service, the Advanced Data-Protect performance service level is assigned to your subscription.

You can monitor consumption and health metrics for your MetroCluster configuration. For more information, see [View consumption and health of your MetroCluster subscriptions](#).

Understand pricing

The advanced data protection add-on service is priced based on the committed capacity at each site. This helps determine the actual cost of advanced data protection service in \$/TiB. The add-on charges apply to all capacities in your subscription, including source data, mirrored copies, and unmirrored data.

For the MetroCluster configuration, each site requires its own subscription, and you are charged for the committed capacity at each site independently.

Note the following:

- The service uses 100% of the committed capacity on associated storage as committed capacity.
- Charges apply to both primary and secondary sites, covering both source and destination clusters.
- Charges apply only to your file and block storage services.

Supported MetroCluster configurations

Keystone supports the following MetroCluster deployment scenarios:

Active/Passive configuration

In this configuration, primary data at one site is mirrored to a secondary site. For example, if 100 TiB of logical data is consumed at site A, it is replicated to site B. Both sites require identical subscriptions:

- **Subscription 1 (site A):** 100 TiB storage service + 100 TiB ADP
- **Subscription 2 (site B):** 100 TiB storage service + 100 TiB ADP

Active/Active configuration with full mirroring

In this configuration, both sites host primary data that is mirrored bidirectionally. For example, 100 TiB of primary data at site A is mirrored to site B, and 100 TiB of primary data at site B is mirrored to site A. Both sites require subscriptions for the combined capacity:

- **Subscription 1 (site A):** 200 TiB storage service + 200 TiB ADP
- **Subscription 2 (site B):** 200 TiB storage service + 200 TiB ADP

Active/Active configuration with partial mirroring

In this configuration, one site hosts mirrored data while the other site hosts both mirrored and unmirrored data. For example, 100 TiB of primary data at site A is mirrored to site B, while site B also hosts an additional 100 TiB of unmirrored data. The subscriptions differ based on the capacity at each site:

- **Subscription 1 (site A):** 100 TiB storage service + 100 TiB ADP
- **Subscription 2 (site B):** 200 TiB storage service + 200 TiB ADP

The following diagram shows these supported MetroCluster configurations:

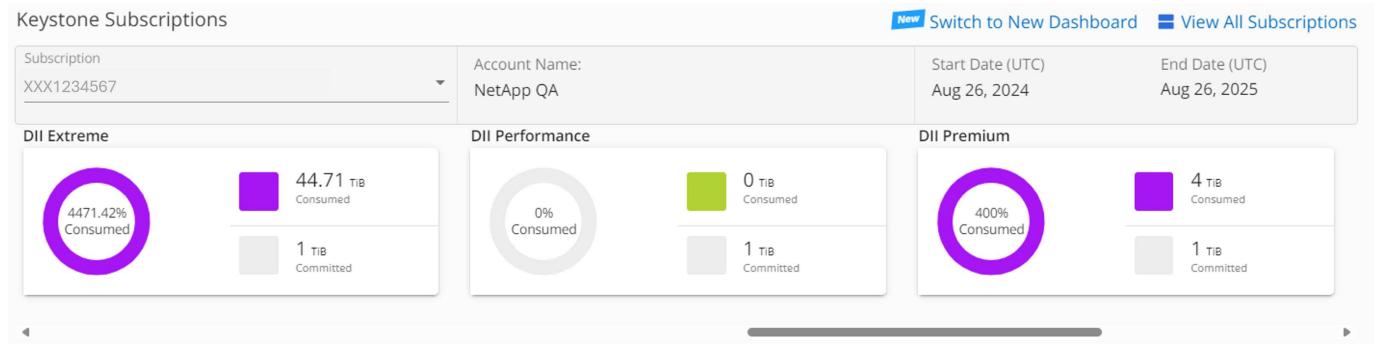
Data Infrastructure Insights add-on for Keystone

NetApp Data Infrastructure Insights (DII, formerly known as Cloud Insights) is an add-on offering for Keystone STaaS. The integration of this service with Keystone STaaS enhances the monitoring, troubleshooting, and optimization capabilities of Keystone-provided storage resources across public clouds and private data centers.

To learn more about Data Infrastructure Insights, refer to [Data Infrastructure Insights documentation](#).

DII is available for both new and existing subscriptions. It can be integrated into a Keystone subscription as an add-on for the committed capacity. When DII is integrated into a Keystone subscription, it will have a corresponding performance service level for each base performance service level in the subscription. For example, Extreme maps to DII Extreme, Premium maps to DII Premium, and Performance maps to DII Performance. These mappings ensure that the DII performance service level aligns with the base performance service level of your Keystone subscription.

A view of DII performance service levels within a **Keystone Subscriptions** widget on the Digital Advisor dashboard:



Deployment of DII for Keystone

Customers can integrate DII for Keystone in two ways: either as part of an existing instance that monitors other non-Keystone environments, or as part of a new instance. It is the customer's responsibility to set up DII. If help is needed for setting up DII in a complex environment, the account team can engage [NetApp Professional Services](#).

To set up DII, refer to [Data Infrastructure Insights onboarding](#).

Note the following:

- If the customer is starting a new DII instance, it is recommended to begin with a [DII free trial](#). To learn about this feature and the required startup checklist, refer to [Feature Tutorials](#).
- For each site, an Acquisition Unit is required. To install an Acquisition Unit, refer to [Install an Acquisition Unit](#). If the customer already has a DII instance and Acquisition Unit set up, they can proceed with configuring the data collector.
- For each storage hardware deployed, the customer must configure a data collector on the Acquisition Unit. To configure data collectors, refer to [Configure Data Collectors](#). The required data collectors for Keystone storage, based on the underlying hardware, are as follows:

Storage hardware	Data collector
ONTAP Systems	NetApp ONTAP Data Management Software
StorageGRID	NetApp StorageGRID
Cloud Volumes ONTAP	NetApp Cloud Volumes ONTAP

Once configured, the DII instance will begin monitoring the NetApp storage resources deployed as part of Keystone.



While DII offers extensive monitoring capabilities for the deployed hardware, it does not provide insights into your Keystone subscription, such as subscription usage or details on performance service levels. For subscription insights, see [Keystone dashboard and reporting](#).

Billing and metering

The following outlines the billing and metering details of the DII add-on service:

- This service is measured in the same way as your main subscription. For example, if your main subscription includes 100 TiB of Extreme service and 100 TiB of Premium service, both measured on a logical usage basis, the add-on services, DII Extreme 100 TiB and DII Premium 100 TiB, are also measured on a logical usage basis. If your main subscription is measured on a provisioned basis, the add-on service is measured the same way for the same capacity. The add-on service will follow the same measurement method as your main subscription.

Keystone Subscriptions [Help](#)

Subscriptions Current Consumption Consumption Trend Volumes & Objects Assets Subscription Timeline Performance

Subscription: XXX1234567 Start Date (UTC): August 26, 2024 End Date (UTC): August 26, 2025 Billing Period: Annual

Warning: 34 volumes do not comply with this subscription's QoS policies.

Current Consumption per Service Level

No Consumption (Grey) Normal (Green) High > 80% (Orange) Burst 100% - 120% (Red) Above Burst Limit > 120% (Purple)

Service Level	Committed	Consumed	Current Burst	Available	Available With Bur
Extreme	1 TiB	• 44.71 TiB	• 43.71 TiB	0 TiB	0 TiB
Performance	1 TiB	• 0 TiB	• 0 TiB	1 TiB	1.2 TiB
Premium	1 TiB	• 4 TiB	• 3 TiB	0 TiB	0 TiB
DII Extreme	1 TiB	• 44.71 TiB	• 43.71 TiB	0 TiB	0 TiB
DII Performance	1 TiB	• 0 TiB	• 0 TiB	1 TiB	1.2 TiB
DII Premium	1 TiB	• 4 TiB	• 3 TiB	0 TiB	0 TiB

- This service is metered and invoiced along with your Keystone subscription on the same invoice. If you configure DII for Keystone before activating your Keystone subscription, billing still begins from the Keystone subscription activation date, or the modification date for existing subscriptions.
- This service is metered and invoiced based on both committed capacity and burst usage for DII performance service levels, in addition to the standard Keystone invoice. The metering of this add-on service follows the same methodology as the underlying Keystone subscription performance service level, which could be logical, provisioned, or physical.
- This service ends with the Keystone subscription to which it is linked. At renewal, you can choose whether to renew the add-on service. If you don't renew the Keystone subscription, the monitored hardware is decommissioned, and the add-on service automatically terminates.

Support and user access

Approved NetApp Support team members can access the customer's DII instance if the customer enables the **Allow NetApp Access to your Data Infrastructure Insights Environment** option. To do so, go to **Help > Support**, and enable the option.

Customers can provide access to internal or external users from the **User Management** screen using the **+ User** option.

Name	Email	Observability Role	Workload Security Role	Reporting Role	Last Login
		Administrator	Administrator	Administrator	8 days ago
		Administrator	Administrator	No Access	3 hours ago
		Administrator	Administrator	Administrator	21 hours ago
		Administrator	Administrator	Administrator	21 hours ago
		Administrator	Administrator	Administrator	a day ago
		Administrator	Administrator	Administrator	4 days ago
		Administrator	Administrator	Administrator	4 minutes ago
		Administrator	Administrator	Guest	10 days ago
		Administrator	Administrator	Guest	3 days ago
		Administrator	No Access	User	2 minutes ago
		Administrator	Administrator	Administrator	2 days ago
		Administrator	Administrator	Administrator	an hour ago
		Administrator	Administrator	No Access	15 days ago

Data tiering add-on service for Keystone

Keystone STaaS standard services for file and block storage include tiering capabilities that identify less-frequently used data, and tiers it to Keystone STaaS-supported NetApp

cold storage. You can use data tiering as an add-on service if you want to tier your cold data to any Keystone STaaS-supported, non-NetApp storage.

For information about standard and add-on services, see [Keystone STaaS services](#).

For information about performance service Levels, see [Performance service levels in Keystone](#).



The tiering add-on service is required only when data is tiered to any non-NetApp storage such as Amazon Web Services (AWS) S3, Azure Blob, Google Cloud Platform (GCP), and other Keystone STaaS-supported, S3-compatible, third party object storage.

The tiering capability leverages the NetApp FabricPool technology that enables automated tiering of infrequently accessed data to object storage tiers on and off premises.

The add-on data tiering service enables tiering from Extreme, Premium, Performance, Standard, and Value tier to an object storage target. The ratio of hot to cold data to be tiered is not fixed, and each tier is metered and invoiced separately.

For example, if the target for cold storage tier is:

- Keystone STaaS Value tier, Keystone STaaS StorageGRID Object Tier, or existing StorageGRID Webscale (SGWS) grid (customer owned) - There is no additional charge; it is part of the standard service.
- Public cloud (AWS, Azure, Google) or Keystone STaaS-supported, third party object storage - There is an additional charge for data capacity that is tiered to cold storage target.

The charges for add-on tiering services apply through the entire subscription term.



Hyperscaler-based compute, storage, and network services required by Cloud Volumes ONTAP are not provided by NetApp as a part of Keystone STaaS subscriptions; these services need to be procured directly from hyperscaler cloud service providers.

Related information

[How to approximate Keystone consumption with data tiering \(FabricPool\) using the ONTAP CLI](#)

Non-returnable, non-volatile components, and SnapLock compliance add-on service for Keystone

As a part of your NetApp Keystone subscription, NetApp extends the non-returnable, non-volatile components (NRNVC) offering for your file, block, and object services.

NetApp does not recover the physical storage media used during the entire service tenure or at service termination when NetApp otherwise recovers all of its physical assets used in the delivery of the service.

You can subscribe to this add-on service as a part of your Keystone subscription. If you have purchased this service, note the following:

- You do not need to return any drives and nonvolatile memory at end of the service term or if they failed or were found defective during the service term.
- However, you need to produce a certificate of destruction for the drives and/or nonvolatile memory and cannot be used for any other purpose.

- The additional cost associated with the NRNVNC is charged as a percentage of the total subscription services (includes standard service, Advanced Data Protection, and data tiering) monthly bill.
- This service is applicable only to file, block, and object services.

For information about the standard and cloud services, see [Keystone STaaS services](#).

For information about performance service Levels, see [Performance service Levels in Keystone](#).

SnapLock compliance

The SnapLock technology enables the NRNVNC feature by making the drive unusable after the expiry date set in the volume. For using the SnapLock technology on your volumes, you need to subscribe to NRNVNC. This is applicable only to file and block services.

For information about SnapLock technology, see [What SnapLock is](#).

USPS add-on for Keystone

United States Protected Support (USPS) is an add-on offering for NetApp Keystone Subscriptions. It entitles you to receive delivery and support of ongoing Keystone services from U.S. citizens on U.S. soil.

Read the following sections to understand which elements of your subscriptions are bound by this add-on service and are provided under the terms of NetApp Keystone Agreement. [\[1\]](#)

NetApp USPS monitoring

NetApp USPS Keystone support team monitors the health of your products and subscribed services, provides remote support, and collaborates with your Keystone Success Manager. All personnel monitoring the products associated with the relevant Keystone subscription orders are U.S citizens operating on U.S. soil.

Keystone Success Manager

The Keystone Success Manager (KSM) is a U.S. citizen operating on U.S. soil. Their responsibilities are specified in your NetApp Keystone Agreement.

Deployment activities

Where available, onsite and remote deployment and installation activities are conducted by U.S. citizens on U.S. soil. [\[2\]](#)

Support

Where available, the necessary onsite troubleshooting and support activities are conducted by U.S. citizens on U.S. soil. [\[2\]](#)

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