



Release notes

Keystone

NetApp

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Release notes

What's new in Keystone STaaS

Learn about the latest features and enhancements in Keystone STaaS services.

02 February 2026

New enhancements in the Keystone dashboard in the NetApp Console:

Interactive filtering for daily accrued burst data

The **Accrued burst by days** table in the **Consumption trend** tab now supports interactive filtering. Select any bar in the accrued burst billing graph to view only the days within that billing period. To learn more, refer to [View daily accrued burst data usage](#).

Enhanced date range display in accrued burst graph

The accrued burst billing graph in the **Consumption trend** tab now displays full date ranges for each billing period, such as Oct 01, 2025 to Oct 31, 2025, instead of only the month and year.

Expandable subscription details view

The **Subscriptions** tab includes an option to expand all subscriptions and view performance service levels information for each subscription simultaneously. To learn more, refer to [View details about your Keystone subscriptions](#).

New Usage type column

The **Subscriptions** tab includes a **Usage type** column that displays whether the subscription is billed based on provisioned, physical, or logical usage. To learn more, refer to [View details about your Keystone subscriptions](#).

08 December 2025

New enhancements in the Keystone dashboard in the NetApp Console:

Renamed Accrued burst capacity label

The label **Accrued burst capacity** is renamed to **Accrued burst**.

24 November 2025

New enhancements in the Keystone dashboard in the NetApp Console:

Tracking ID for coverage gap subscriptions

In the **Complete your coverage** notification box on **Monitoring > Alert monitors**, each subscription now displays its tracking ID beside the subscription number.

10 November 2025

New enhancements in the Keystone dashboard in the NetApp Console:

Complete your coverage notification box

The **Alerts monitors** tab on the **Monitoring** page includes a **Complete your coverage** notification box that appears when coverage gaps exist. This box lists subscriptions missing capacity or expiration monitors, and monitors with no subscriptions. You can address the gaps by adding subscriptions to existing monitors, creating new monitors, or deleting unused monitors. To learn more, refer to [Manage coverage gaps for alert monitors](#).

13 October 2025

New enhancements in the Keystone dashboard in the NetApp Console:

QoS policy override column in Assets tab

The **Volumes in clusters** tab within the **Assets** tab now includes a **QoS policy override** column that indicates whether QoS rules are bypassed for backup and mirror volumes, displaying **true** (rules ignored), **false** (rules enforced), or **N/A** (for mirror volumes).



For Keystone v3 subscriptions, this column displays **N/A** as QoS policies are not applicable in the v3 offering.

Enhanced alerts visibility in Overview page

The **Overview** page now includes two new alert sections named **Unresolved alerts by severity** and **Oldest unresolved Keystone alerts**. To learn more, refer to [Keystone dashboard in NetApp Console](#).

06 October 2025

BlueXP is now NetApp Console

The NetApp Console, built on the enhanced and restructured BlueXP foundation, provides centralized management of NetApp storage and NetApp Data Services across on-premises and cloud environments at enterprise grade—delivering real-time insights, faster workflows, and simplified administration, that is highly secure and compliant.

For details on what's changed, see the [NetApp Console release notes](#).

22 September 2025

Addition of alert monitoring

The Keystone dashboard in BlueXP now includes a **Monitoring** tab for managing alerts and monitors across your subscriptions. This new tab enables you to:

- View and resolve active alerts, including both system-generated and user-defined alerts for capacity usage and subscription expiration.
- Create alert monitors to track capacity usage and subscription expiration events.

To learn more, refer to [View and manage alerts and monitors](#).

Streamlined performance service levels viewing

You can view the performance service levels information, now moved from a separate tab to an expandable view, within the **Subscriptions** tab. Click the down arrow next to the **Expiration date** column to view them for each subscription. To learn more, refer to [View details about your Keystone subscriptions](#).

28 August 2025

Enhanced logical usage tracking with a new column

A new column, Total footprint, is added to enhance Keystone consumption tracking for FabricPool volumes:

- **Keystone dashboard in BlueXP:** You can see the **Total footprint** column in the **Volumes in clusters** tab within the **Assets** tab.
- **Digital Advisor:** You can see the **Total Footprint** column in the **Volume Details** tab within the **Volumes & Objects** tab.

This column displays the total logical footprint for volumes using FabricPool tiering, including data from both performance and cold tiers, so you can accurately calculate Keystone consumption.

05 August 2025

View instance-level consumption data

You can view current consumption and historical data for each performance service level instance through the Keystone dashboard in BlueXP. This feature is available for performance service levels with multiple instances, provided you have a Keystone version 3 (v3) subscription. To learn more, refer to [View the consumption of your Keystone subscriptions](#).

30 June 2025

Keystone version 3 (v3) release

You can now subscribe to Keystone version 3 (v3), the latest release of the NetApp Keystone STaaS offering. This version introduces several enhancements, including simplified performance service levels, additional burst capacity options, and flexible billing frequencies. These improvements simplify the management, optimization, and scaling of storage solutions. To learn more, refer to [Keystone STaaS services for v3](#).

You can contact the Keystone support team to subscribe to Keystone version 3 (v3). For more details, refer to [Get help with Keystone](#).

19 June 2025

Keystone dashboard in BlueXP

You can now access the Keystone dashboard directly from BlueXP. This integration gives you a single place to monitor, manage, and keep track of all your Keystone subscriptions along with your other NetApp services.

With the Keystone dashboard in BlueXP, you can:

- View all your subscription details, capacity usage, and assets in one place.
- Easily manage subscriptions and request changes as your needs evolve.

- Stay up to date with the latest information for your storage environment.

To get started, go to **Storage > Keystone** in the BlueXP left navigation menu. To learn more, refer to [Keystone dashboard overview](#).

08 January 2025

Addition of daily accrued data usage viewing options

You can now view daily accrued burst data usage in either graph or table format for a monthly or quarterly billing period by clicking the bar that displays the invoiced data. To learn more, refer to [View daily accrued burst data usage](#).

12 December 2024

Renamed Logical Used column

The **Logical Used** column in the **Volume Details** tab within **Volumes & Objects** is now renamed to **Keystone Logical Used**.

Enhanced Assets tab

The **Assets** tab in the **Keystone Subscriptions** screen now has two new sub-tabs: **ONTAP** and **StorageGRID**. These sub-tabs offer detailed cluster-level insights for ONTAP and grid-level information for StorageGRID based on your subscriptions. To learn more, refer to [Assets tab](#).

New Hide/Show Columns option

The **Volume Details** tab within **Volumes & Objects** now includes a **Hide/Show Columns** option. This option enables you to select or deselect columns to customize the tabular listing of volumes according to your preference. To learn more, refer to [Volumes & Objects tab](#).

21 November 2024

Enhanced invoiced accrued burst

You can now view accrued burst usage data on a quarterly basis through the **Invoiced Accrued Burst** option if you have opted for a quarterly billing period. To learn more, refer to [View invoiced accrued burst](#).

New columns in the Volumes Details tab

To improve clarity in calculating logical usage, two new columns have been added to the **Volume Details** tab within the **Volumes & Objects** tab:

- **Logical AFS**: Displays the logical capacity used by the volume's active file system.
- **Physical Snapshot**: Displays the physical space used by the snapshots.

These columns provide better clarity on the **Logical Used** column, which shows the combined logical capacity used by the volume's active file system and the physical space used by snapshots.

11 November 2024

Enhanced report generation

You can now generate a consolidated report to view the details of your Keystone data using the Report feature in Digital Advisor. To learn more, refer to [Generate consolidated report](#).

10 July 2024

Label modifications

The label **Current Usage** is changed to **Current Consumption**, and **Capacity Trend** is changed to **Consumption Trend**.

Search bar for subscriptions

The **Subscriptions** dropdown across all tabs within the **Keystone Subscriptions** screen now includes a search bar. You can search for specific subscriptions listed in the **Subscriptions** dropdown.

27 June 2024

Consistent display of subscription

The **Keystone Subscriptions** screen is updated to display the selected subscription number across all tabs.

- When any tab within the **Keystone Subscriptions** screen is refreshed, the screen automatically navigates to the **Subscriptions** tab and reset all tabs to the first subscription listed in the **Subscription** dropdown.
- If the selected subscription is not subscribed to performance metrics, the **Performance** tab will display the first subscription listed in the **Subscription** dropdown upon navigation.

29 May 2024

Enhanced Burst indicator

The **Burst** indicator in the usage graph index is enhanced to display the burst limit percentage value. This value changes depending on the agreed-upon burst limit for a subscription. You can also view the burst limit value in the **Subscriptions** tab by hovering over the **Burst Usage** indicator in the **Usage Status** column.

Addition of service levels

The service levels **CVO Primary** and **CVO Secondary** are included to support Cloud Volumes ONTAP for subscriptions that have rate plans with zero committed capacity or those configured with a metro cluster.

- You can view the capacity usage graph for these service levels from the dashboard of the **Keystone Subscriptions** widget and the **Capacity Trend** tab, and also detailed usage information from the **Current Usage** tab.
- In the **Subscriptions** tab, these service levels are displayed as **CVO (v2)** in the **Usage Type** column, allowing for the identification of billing according to these service levels.

Zoom-in feature for short-term bursts

The **Capacity Trend** tab now includes a zoom-in feature to view the details of short-term bursts in the usage

charts. For more information, see [Capacity Trend tab](#).

Enhanced display of subscriptions

The default display of subscriptions is enhanced to sort by tracking ID. The subscriptions in the **Subscriptions** tab, including in the **Subscription** dropdown and CSV reports, will now be displayed based on the alphabetical sequence of the tracking IDs, following the order of a, A, b, B, and so on.

Enhanced accrued burst display

The tooltip that appears when hovering over the capacity usage bar chart in the **Capacity Trend** tab now displays the type of accrued burst based on committed capacity. It differentiates between provisional and invoiced accrued burst, showing **Provisional Accrued Consumption** and **Invoiced Accrued Consumption** for subscriptions with zero committed capacity rate plans, and **Provisional Accrued Burst** and **Invoiced Accrued Burst** for those with non-zero committed capacity.

09 May 2024

New columns in CSV reports

The CSV reports from the **Capacity Trend** tab now include **Subscription Number** and **Account Name** columns for improved detail.

Enhanced Usage Type column

The **Usage Type** column within the **Subscriptions** tab is enhanced to display logical and physical usages as comma-separated values for subscriptions that cover service levels for both file and object.

Access object storage details from Volume Details tab

The **Volume Details** tab within the **Volumes & Objects** tab now provides object storage details along with volume information for subscriptions that include service levels for both file and object. You can click the **Object Storage Details** button within the **Volume Details** tab to view the details.

28 March 2024

Improvement to QoS policy compliance display in the Volume Details tab

The **Volume Details** tab within the **Volumes & Objects** tab now provides better visibility into Quality of Service (QoS) policy compliance. The column formerly known as **AQoS** is renamed to **Compliant**, which indicates whether the QoS policy is in compliance. In addition, a new column **QoS Policy Type** is added, which specifies if the policy is fixed or adaptive. If neither applies, the column displays *Not Available*. For more information, see [Volumes & Objects tab](#).

New column and simplified subscription display in the Volume Summary tab

- The **Volume Summary** tab within the **Volumes & Objects** tab now includes a new column titled **Protected**. This column provides a count of the protected volumes associated with your subscribed service levels. If you click the number of protected volumes, it takes you to the **Volume Details** tab, where you can view a filtered list of protected volumes.
- The **Volume Summary** tab is updated to display only base subscriptions, excluding add-on services. For more information, see [Volumes & Objects tab](#).

Change to accrued burst detail display in the Capacity Trend tab

The tooltip that appears when hovering over the capacity usage bar chart in the **Capacity Trend** tab will display the details of accrued bursts for the current month. The details will not be available for the previous months.

Enhanced access to view historical data for Keystone subscriptions

You can now view historical data if a Keystone subscription is modified or renewed. You can set the start date of a subscription to a previous date to view :

- Consumption and accrued burst usage data from the **Capacity Trend** tab.
- Performance metrics of ONTAP volumes from the **Performance** tab.

The data is displayed based on the selected start date of the subscription.

29 February 2024

Addition of the Assets tab

The **Keystone Subscriptions** screen now includes the **Assets** tab. This new tab provides cluster-level information based on your subscriptions. For more information, see [Assets tab](#).

Improvements to the Volumes & Objects tab

To provide better clarity to your ONTAP system volumes, two new tab buttons, **Volume Summary** and **Volume Details**, have been added to the **Volumes** tab. The **Volume Summary** tab provides an overall count of the volumes associated with your subscribed service levels, including their AQoS compliance status and capacity information. The **Volume Details** tab lists all the volumes and their specifics. For more information, see [Volumes & Objects tab](#).

Enhanced search experience on Digital Advisor

The search parameters on the **Digital Advisor** screen now include Keystone subscription numbers and watchlists created for Keystone subscriptions. You can enter the first three characters of a subscription number or watchlist name. For more information, see [View the Keystone dashboard on Active IQ Digital Advisor](#).

View timestamp of the consumption data

You can view the timestamp of the consumption data (in UTC) on the old dashboard of the **Keystone Subscriptions** widget.

13 February 2024

Ability to view subscriptions linked to a primary subscription

Some of your primary subscriptions can have linked, secondary subscriptions. If that is the case, the primary subscription number will continue to be displayed in the **Subscription Number** column, while the linked subscription numbers will be listed in a new column **Linked Subscriptions** on the **Subscriptions** tab. The **Linked Subscriptions** column becomes available to you only if you have linked subscriptions, and you can see information messages notifying you about them.

11 January 2024

Invoiced data returned for accrued burst

The labels for **Accrued Burst** are now modified to **Invoiced Accrued Burst** in the **Capacity Trend** tab. Selecting this option enables you to view the monthly charts for the billed accrued burst data. For more information, see [View invoiced accrued burst](#).

Accrued consumption details for specific rate plans

If you have a subscription that has rate plans with zero committed capacity, you can view the accrued consumption details in the **Capacity Trend** tab. On selecting the **Invoiced Accrued Consumption** option, you can view the monthly charts for the billed accrued consumption data.

15 December 2023

Ability to search by watchlists

The support for watchlists in Digital Advisor has been extended to include Keystone systems. You can now view the details of the subscriptions for multiple customers by searching with watchlists. For more information about the use of watchlists in Keystone STaaS, see [Search by Keystone watchlists](#).

Date converted to UTC timezone

The data returned on the tabs of the **Keystone Subscriptions** screen of Digital Advisor is displayed in UTC time (server timezone). When you enter a date for query, it is automatically considered to be in UTC time. For more information, see [Keystone Subscription dashboard and reporting](#).

Fixed issues in Keystone STaaS

Issues that were found in previous releases of NetApp Keystone STaaS services have been fixed in later releases.

Issue description	After the fix	Fixed in release
Subscriptions incorrectly display Above Burst Limit status in the Digital Advisor dashboard despite consumption being within allowed burst limits.	Fixed	December 08, 2025
Missing burst threshold line from consumption trend charts for subscriptions configured with a MetroCluster configuration in the Digital Advisor dashboard, showing an incorrect Above Burst Limit status.	Fixed	August 28, 2025
In the Assets tab, assets for StorageGRID are not visible.	Fixed	June 19, 2025

Issue description	After the fix	Fixed in release
For the Advance Data-Protect service level, in the Consumption Trend tab, the chart shows a split for primary and mirror sites.	The chart no longer shows a split for primary and mirror sites.	June 19, 2025
When the existing Keystone Collector installed using a Debian package attempts to configure an HTTP Proxy or enable Unified Manager through the Keystone Collector management TUI, the TUI becomes unresponsive.	Fixed	May 19, 2025
Keystone Collector for StorageGRID fails to configure correctly due to missing common settings.	Fixed	May 12, 2025
Keystone Collector fails to collect usage data for ONTAP clusters running versions lower than 9.11.	Fixed	April 30, 2025
The consumption values for linked subscriptions show incorrect negative numbers, causing the total committed usage to display inaccurately high.	Fixed	April 14, 2025
Unable to view historical data in the Consumption Trend tab for service levels for a few subscriptions.	Fixed	April 14, 2025
Missing Keystone Subscriptions option from Watchlist and the Subscription Number option from Reports on the Digital Advisor dashboard.	Fixed	March 19, 2025
Missing a few Keystone subscriptions from Watchlist after creating or modifying watchlist from the Digital Advisor dashboard.	Fixed	March 19, 2025

Issue description	After the fix	Fixed in release
Unable to view historical data in the Consumption Trend tab for service levels associated with a subscription that has expired and been renewed with the same tracking ID but different service levels.	Fixed	March 19, 2025
Unable to generate reports for subscriptions when selecting more than 10-12 subscriptions from the Subscriptions tab on the Keystone Subscriptions page.	Fixed	January 08, 2025
The Volume Summary sub-tab in the Volumes & Objects tab fails to load for StorageGrid subscriptions.	Fixed	November 21, 2024
The From Date field to select the date range displays a future date by default when navigating to the Consumption Trend tab.	Fixed	September 04, 2024
Keystone Collector management TUI becomes unresponsive when setting up AQoS policies.	Fixed	August 07, 2024
Usage charts display data beyond the specified single-day period when the date corresponding to the current day is selected as both the start and end date for the previous month from the Capacity Trend option in the Capacity Trends tab.	Usage charts now correctly display data for the specified single-day period.	June 27, 2024
Historical accrued burst data is not available for CVO Primary and CVO Secondary service levels within the Capacity Trend tab for subscriptions that are not configured with a MetroCluster configuration.	Fixed	June 21, 2024
Incorrect display of object storage consumed value listed on the Volume Details tab for AutoSupport subscriptions.	The consumed value for object storage now displays correctly.	June 21, 2024

Issue description	After the fix	Fixed in release
Unable to view cluster-level information within the Assets tab for AutoSupport subscriptions that are configured with a MetroCluster configuration.	Fixed	June, 21, 2024
Misplacement of Keystone data in CSV reports if the Account Name column in CSV reports, generated from the Capacity Trend tab, includes an account name with a comma (,).	Keystone data is correctly aligned in CSV reports.	May 29, 2024
Display the accrued burst usage from the the Capacity Trend tab even if the consumption is below the committed capacity.	Fixed	May 29, 2024
Incorrect tooltip text for the Current Burst index icon in the Capacity Trend tab.	Displays the correct tooltip text <i>"The amount of burst capacity currently being consumed. Note this is for current billing period, not the selected date range."</i>	March 28, 2024
Information on AQoS non-compliant volumes and MetroCluster partners is unavailable for AutoSupport subscriptions if Keystone data is not present for 24 hours.	Fixed	March 28, 2024
Occasional mismatch in the number of AQoS non-compliant volumes listed on the Volume Summary and Volume Details tabs if there are two service levels assigned to a volume that fulfils AQoS compliance for only one service level.	Fixed	March 28, 2024
No information is available on the Assets tab for AutoSupport subscriptions.	Fixed	March 14, 2024

Issue description	After the fix	Fixed in release
If both MetroCluster and FabricPool were enabled in an environment where rate plans for both tiering and object storage were applicable, the service levels could be incorrectly derived for the mirror volumes (both constituent and FabricPool volumes).	Correct service levels are applied to mirror volumes.	February 29, 2024
For some subscriptions having a single service level or rate plan, the AQoS compliance column was missing in the CSV output of the Volumes tab reports.	The compliance column is visible in the reports.	February 29, 2024
In some MetroCluster environments, occasional anomaly was detected in the IOPS density charts in the Performance tab. This happened due to inaccurate mapping of volumes to service levels.	The charts are correctly displayed.	February 29, 2024
The usage indicator for a burst consumption record was being displayed in amber.	The indicator appears in red.	December 13, 2023
The date range and data in the Capacity Trend, Current Usage, and Performance tabs were not converted to UTC timezone.	The date range for query and data in all the tabs are displayed in UTC time (server timezone). The UTC timezone is also displayed against each date field on the tabs.	December 13, 2023
There was a mismatch in the start date and end date between the tabs and the downloaded CSV reports.	Fixed.	December 13, 2023

Known issues in Keystone STaaS

Known issues identify problems that might prevent you from using Keystone STaaS effectively.

The following known issues are reported in NetApp Keystone STaaS:

Known issue	Description	Workaround
Modify subscription unavailable	The option to modify the committed capacity for Keystone subscriptions is currently unavailable in the NetApp Console. This functionality will be reintroduced in a future release.	None
Incorrect invoice due to data mismatch	A mismatch in consumption data for AutoSupport subscriptions leads to the generation of incorrect invoices, causing billing inaccuracies.	None
Incorrect QoS policy type display	In the Volume Details tab, the QoS Policy Type column displays QoS when no QoS policy is applied, and the Compliant column shows <i>Not set</i> , causing an inconsistency in the displayed QoS policy status.	None
Volume details unavailable for primary and linked subscriptions	The Volume Summary tab shows zero for the total number of volumes, QoS compliance status, protected volumes count, and total consumed capacity for primary and linked secondary subscriptions.	None

Known limitations in Keystone STaaS

Known limitations identify platforms, devices, or functions that are not supported by Keystone STaaS services or components, or that do not interoperate correctly. Review these limitations carefully.

Keystone Collector limitations

Keystone Collector authentication failure with StorageGRID SSO enabled

Keystone Collector does not support metering when the StorageGRID system has single sign-on (SSO) enabled. The following error message is displayed in the logs:

```
panic: json: cannot unmarshal object into Go struct field AuthResponse.data of
type string
```

See Knowledge Base article [Keystone Collector fails to authenticate with StorageGRID in SSO Mode](#) for information and resolution.

Keystone Collector cannot start on vSphere 8.0 Update 1

A Keystone Collector virtual machine (VM) with VMware vSphere version 8.0 Update 1 cannot be switched on, and the following error message is displayed:

Property 'Gateway' must be configured for the VM to power on.

See Knowledge Base article [Keystone Collector fails to start on vSphere 8.0 U1](#) for information and resolution.

Support bundle cannot be generated over Kerberos

If the Keystone Collector home directory is mounted over NFSv4 using Kerberos, the support bundle is not generated, and the following error message is displayed:

```
subprocess.CalledProcessError: Command "['sosreport', '--batch', '-q', '--tmp-dir', '/home/<user>']" returned non-zero exit status 1.
```

See Knowledge Base article [Keystone Collector fails to generate support bundle on Kerberized home directory](#) for information and resolution.

Keystone Collector cannot communicate with hosts within specific network range

Keystone Collector is unable to communicate with devices within the 10.88.0.0/16 network range when the `ks-collector` service is running. See Knowledge Base article [Keystone Collector container conflict with customer network](#) for information and resolution.

Keystone Collector cannot verify customer root SSL CA certificate

If SSL/TLS inspection is enabled at the border firewall in an environment to inspect SSL/TLS traffic, Keystone Collector is unable to establish an HTTPS connection, because the customer's root CA certificate is not trusted.

For more information and resolution, see [Trust a custom root CA](#) or Knowledge Base article [Keystone Collector cannot verify Customer Root SSL CA certificate](#).

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