



Release notes

Keystone

NetApp
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Release notes

What's new in Keystone STaaS

NetApp offers you new and enhanced features in every release of Keystone STaaS services.

New features and enhancements for March 28, 2024

The following enhancement has been made on the **Keystone Subscriptions** screen of Active IQ Digital Advisor (also known as Digital Advisor):

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,

all of which show the data based on the selected date of the subscription.

New features and enhancements for February 29, 2024

Several enhancements have been made on the Active IQ Digital Advisor (also known as Digital Advisor) dashboard and **Keystone Subscriptions** screen for this release:

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 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.

New features and enhancements for February 13, 2024

The following enhancement has been made on the **Keystone Subscriptions** screen of Active IQ Digital Advisor (also known as Digital Advisor).

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.

New features and enhancements for January 11, 2024

Learn what's new in this release.

The following enhancements have been made on the **Keystone Subscriptions** screen of Active IQ Digital Advisor (also known as Digital Advisor).

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 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 the monthly charts for the billed accrued consumption data.

New features and enhancements for December 15, 2023

Learn what's new in this release.

Ability to search by watchlists

The support for watchlists in Active IQ Digital Advisor (also known as 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 using Keystone watchlists](#).

Date converted to UTC timezone

The data returned on the tabs of the **Keystone Subscriptions** screen of Active IQ 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

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

Issue Description	After the fix	Fixed in release
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 limitations

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 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](#).

Known issues in Keystone STaaS

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

No known issues are identified.

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