

Data Ingestion Service

Purchase Guide

Issue 01

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1 Overview

This section describes the background, application scenarios, key capabilities, and functions of Data Ingestion Service (DIS).

Background

DIS addresses the challenge of transmitting data from outside the cloud to inside the cloud. DIS builds data intake streams for custom applications capable of processing or analyzing streaming data. DIS continuously captures, transmits, and stores terabytes of data from hundreds of thousands of sources every hour, such as logs, Internet of Things (IoT) data, social media feeds, website clickstreams, and location-tracking events.

Application Scenarios

- **Accelerated log and data feed intake**
You do not need to batch data on servers before you submit it for intake. Instead, you can have producers push data into streams immediately after data is produced. For example, system and application logs are pushed as they are streaming in and they will be available for processing in seconds. This prevents the data from being lost if the data producer fails.
- **Real-time metrics and reporting**
You can retrieve data from DIS streams for simple data analysis and reporting in real time. For example, your DIS applications can work on metrics and reporting for system and application logs as streaming data is being pushed to DIS streams using application programming interfaces (APIs), rather than wait to receive batches of data.
- **Real-time data analytics**
DIS combines the power of parallel processing with the value of real-time data. For example, you can transform data into valuable information and business intelligence by simply putting data into a DIS stream. This can be done in minutes instead of hours or days.
- **Complex stream processing**
You can create Directed Acyclic Graphs (DAGs) of DIS applications and streams. This typically involves putting data from one or multiple DIS applications into another stream for downstream processing by a different DIS application.

Key Capabilities

- Scalable
A DIS stream can seamlessly scale its data throughput from megabytes to terabytes per hour, and from thousands to millions of PUT records per second.
- Easy to use
You can create a DIS stream within seconds. Further, it is easy to put data into a stream, and build a data processing application.
- Low cost
DIS has no upfront cost and you only pay for the resources you use.
- Parallel processing
DIS allows you to have multiple DIS applications processing the same stream concurrently. For example, you can have one application running real-time analytics and another sending data to Object Storage Service (OBS) from the same stream.
- Reliable
DIS preserves data for $N \times 24$ hours, reducing the probability of data loss in case of application failures, individual machine failures, or facility failures. The value of N is an integer from 1 to 7.

Function Description

DIS manages the infrastructure, storage, networking, and configuration needed to stream your data. You do not have to worry about provisioning, deployment, and constant maintenance of hardware. In addition, DIS synchronously replicates data across availability zones, providing high availability and data durability.

2 Buying DIS

Pay-per-Use Billing

DIS uses pay-per-use billing. The process of buying DIS is to log in to the [DIS console](#) and click **Buy Stream**. For details, see [Creating a DIS Stream](#).

Discount Package

You can obtain DIS discounts by logging in to the [DIS console](#) and click **Buy Discount Package**.

To buy a discount package, do as follows:

1. Log in to the [DIS console](#).
2. Click **Buy Discount Package** in the upper right corner of the page. The page for buying a discount package is displayed, as shown in [Figure 2-1](#).

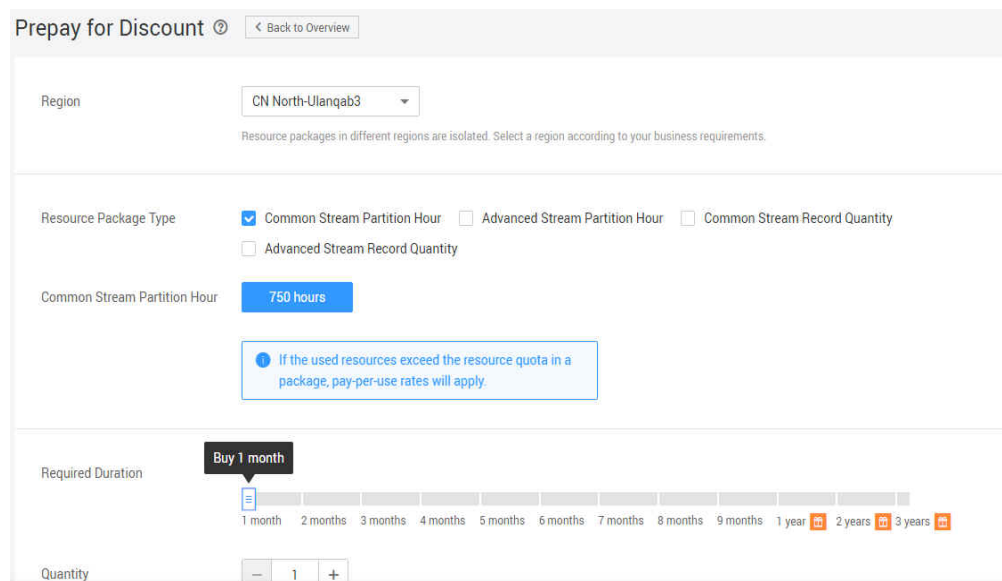
Understand the following before buying a discount package:

- A discount package contains only the stream usage fee.
- A discount package can be used only in its bound region.
- Within the validity period, the fee is deducted from the discount package quota. The fee beyond the quota is settled in pay-per-use mode.
- After a discount package is purchased, you need to manually create DIS streams.
- A discount package takes effect after it is successfully purchased. During the validity period, if you do not use DIS resources, the period will not be extended. Therefore, you are advised to properly plan the resource usage before purchasing a discount package.

NOTE

The time when a discount package takes effect is the time when the order is completed, that is, the order is in **Completed** state.

Figure 2-1 Buying a discount package



3. After selecting a discount package to be purchased, click **Next**.
4. After the discount package is purchased, return to the **DIS console**, click **Buy Stream**, and create a DIS stream specified in the discount package. During the validity period of the discount package, the system does not deduct fees from your account.

If the DIS stream that you are creating is not of the type specified in the package, the system deducts fees based on pay-per-use.

3 Renewing DIS

DIS provides two billing modes: pay-per-use and discount package. For details, see [Renewal Management](#).

- In pay-per-use mode, the system settles the fees by hour. You can use DIS as long as your account balance is sufficient.
- You need to make a one-off payment when purchasing yearly/monthly packages. Then no fees will be incurred when you use DIS. After the package expires, the system will automatically charge you in pay-per-use mode. The service will not be interrupted as long as your account balance is sufficient. You can renew your package on the **Renewals** page.
- If your account balance is insufficient and fee deduction fails, the grace period starts. You can continue to use DIS in the grace period.
- If you have not renewed your account within the grace period, a 15-day reservation period starts. During the reservation period, the service resources will be frozen and cannot be used, but resources and data are reserved.
- If your account is not renewed within the reservation period, the frozen service resources and data will be deleted and cannot be restored after the reservation period expires.
- You can renew your account within the reservation period. After the renewal is successful, the system preferentially deducts the owed fees and unfreezes the service resources. Then you can continue to use DIS.

A Change History

Released On	Description
2019-05-25	This is the fourth official release. Added the content about how to buy a discount package to Buying DIS .
2018-05-10	This issue is the third official release. Modified the content in Buying DIS .
2017-05-26	This is the first official release.