



HKEX Data Marketplace

Data Delivery Destination Configuration Guide – AWS S3

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Document History

Version	Date of Issue	Comments
V1.0	18 Dec 2024	First distribution version
V 1.1	28 Apr 2025	<p>Section 2.1. AWS S3 bucket configuration under user's environment:</p> <p>Updated information on Access control lists (ACLs) and S3 Object Ownership Settings under AWS S3 Bucket Policy configuration.</p> <p>Added Section 2.1.2. AWS S3 default encryption</p>
V 1.2	1 Dec 2025	<p>Updated screenshots with the latest Marketplace interface across all sections.</p> <p>2.2 Delivery Destination setup for AWS S3 under Data Marketplace:</p> <p>Added remarks on AWS S3 delivery format.</p>

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1. Introduction

This document specifies the setup and configuration procedure for adding AWS S3 as a data product delivery destination in HKEX Data Marketplace.

The target audience of this document is the user admins who manage and operate the client's AWS S3 environment.

2. AWS S3 Delivery Location Configuration

To receive data files delivered to an AWS S3 bucket, configurations are required under both user's AWS S3 environment and HKEX Data Marketplace account settings.

2.1. AWS S3 bucket configuration under user's environment

2.1.1. AWS S3 Bucket Policy

User's AWS S3 bucket needs to be configured to allow HKEX Data Marketplace delivery service to write to the AWS S3 bucket; this is a one-off setup process.

Please run the following code snippet to apply the necessary permissions for the S3 bucket:

S3 bucket policy to be executed by Data Marketplace users:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AllowDatahexS3Access",
      "Effect": "Allow",
      "Principal": {
        "AWS": [
          "arn:aws:iam::211125354333:role/venus-hkexprod-airflow-ec-
AirflowTaskRoleWithUserSe-WHCZQtrzAmmC",
          "arn:aws:iam::211125354333:role/dhx-managed-s3-access-role-hkexprod"
        ]
      },
      "Action": [
        "s3:GetBucketLocation",
        "s3:PutObject",
        "s3:ListBucket"
      ],
      "Resource": [
        "<client-bucket-arn>/*",
        "<client-bucket-arn>"
      ]
    }
  ]
}
```

Please refer to [Adding a bucket policy by using the Amazon S3 console](#) under [AWS Documentation](#) for additional information.

Please note the following regarding setting up the S3 bucket policy:

1. **Action:** HKEX Data Marketplace will require `GetBucketLocation`, `PutObject` and `ListBucket` permissions as a minimum.
2. **Resource:** the Resource "`<client-bucket-arn>/*`" can also be limited to a sub-path if required, for example "Resource": [`"arn:aws:s3:::Bucket-name/Sub-path/*"`]
3. **Access control lists (ACLs) and S3 Object Ownership Settings:** as per AWS recommended best practices, Data Marketplace requires the bucket-level **Object Ownership** to be set to **ACLs disabled - Bucket owner enforced**.

To verify Object Ownership on an existing bucket using Amazon S3 console:

- 1) In the **Buckets** list, choose the name of the bucket selected as the data delivery destination.
- 2) Choose the **Permissions** tab.
- 3) Under **Object Ownership**, choose **Edit**.
- 4) Under **Object Ownership**, please ensure the following is selected:

ACLs disabled

- **Bucket owner enforced¹** – *ACLs are disabled, and the bucket owner automatically owns and has full control over every object in the bucket. ACLs no longer affect permissions to data in the S3 bucket. The bucket uses policies to define access control.*

Note: If ACLs is enabled, users will not be able to download the data files delivered with "Access Denied" error.

Please refer to [Setting Object Ownership on an existing bucket](#) under [AWS Documentation](#) for additional information.

2.1.2. AWS S3 default encryption

Data Marketplace can only support S3 buckets configured with server-side default encryption with **Amazon S3 managed keys (SSE-S3)**. Please note this is the automatic encryption applied by AWS.

To verify default encryption settings on a S3 bucket using Amazon S3 console:

- 1) In the left navigation pane, choose **Buckets**.
- 2) In the **Buckets** list, choose the name of the bucket.
- 3) Choose the **Properties** tab.
- 4) Under **Default encryption**, choose **Edit**.
- 5) Under **Encryption type**, please ensure the following is selected.
 - **Server-side encryption with Amazon S3 managed keys (SSE-S3)**

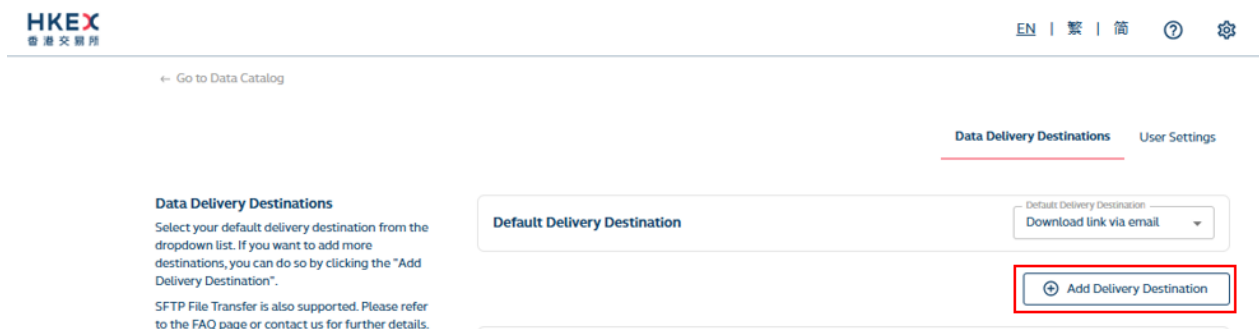
¹ Quoted from AWS documentation [Setting Object Ownership on an existing bucket](#).

Please refer to [Configuring default encryption](#) under [AWS Documentation](#) for additional information.

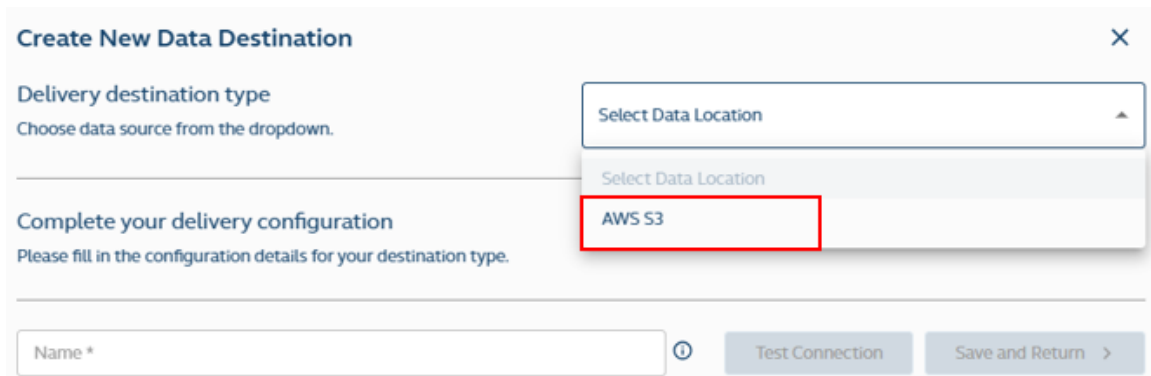
2.2. Delivery Destination setup for AWS S3 under Data Marketplace

Create a new data product delivery destination via the **Settings** tab in Data Marketplace platform:

1. After signing in, click **Settings** in the right top menu.
2. Under **Data Delivery Destinations** tab, click the **Add Delivery Destination** button.



3. Under the **Create New Data Destination** pop-up window, select **AWS S3** from the dropdown list of **Delivery destination type**



4. Enter the additional information in the **Create New Data Destination** screen:
 - 1) **Bucket:** name of the target AWS S3 storage bucket (destination where the files will be delivered).
 - 2) **Prefix:** optional storage sub-path (subfolder name within the bucket for organising your data files). Please ensure to allow this sub-path under bucket policy **Resource** section if applied. Please refer to [2.1.1. AWS S3 Bucket Policy](#) – 2. Resource for details.
 - 3) **Region:** AWS region where the bucket is located (select from the drop-down list)
 - 4) **Name:** name of this delivery destination configuration (for your reference)

Create New Data Destination

Delivery destination type

Choose data source from the dropdown.

AWS S3

AWS S3 delivers your data directly to your designated bucket, organized into a folder structure ordered by Dataset Code.

Complete your delivery configuration

Please fill in the configuration details for your destination type.

Bucket

Bucket *

Prefix

Prefix

Region

Updating your AWS S3 bucket policy is required. Please refer to the [AWS S3 Configuration Guide](#) for further details.

Name

Name *

Test Connection

Save and Return >

5. Test the connection by clicking the **Test Connection** button.

If the delivery configuration is valid - the bucket and prefix path (if applied) exist and has the required permissions, the platform will confirm the connection test was a success with a pop-up message "Connection is successful".

Otherwise, it will provide feedback on any errors encountered which need to be resolved before being able to establish connection.

The configuration can be saved by clicking the **Save and Return** button and will be displayed on the screen allowing user to Edit and Delete.

Data Files will be delivered to your designated destination and organized into a folder structure based on Dataset Code².

The list of saved delivery destinations will also appear in the **Default Delivery Destination** drop down list which can be selected as required.

² For AWS S3 setups created prior to 1 December 2025, data files will be delivered as compressed ZIP archives named in the format: {DatasetCode}_{DeliveryTime}.zip. Such AWS S3 setup will be renamed as "AWS S3 Legacy".

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Data Delivery Destinations

Select your default delivery destination from the dropdown list. If you want to add more destinations, you can do so by clicking the "Add Delivery Destination".

SFTP File Transfer is also supported. Please refer to the [FAQ](#) page or contact us for further details.

Default Delivery Destination

Default Delivery Destination

Download link via email

Display on UI

Download link via email

AWS S3 Destination 1

AWS S3 Destination 1

AWS S3

Edit Delete

Should you have any questions, please contact datamarketplace@hkex.com.hk for assistance.