
S&P Global

Market Intelligence

Databricks Delta Sharing

Cloud-Hosted Data Solution



Client Support

Email: support.datafeed.mi@spglobal.com File delivery support is available 24/7/365			
U.S. / Canada / South America	Sales & Support: 1.800.523.4534 or 1.303.721.4802	China	+86.10.6569.2985 8:00 a.m. – 5:00 p.m. local time Monday – Friday
Mexico	303.721.4802	Japan	+81.3.4550.8350 8:00 a.m. – 5:00 p.m. local time Monday – Friday
Europe	+44. 20.7176.8580	South Korea	+82.2.2022.2395 8:00 a.m. – 5:00 p.m. local time Monday – Friday

Table of Contents

- Document Overview 1**
 - What You Will Find in this User Guide 1
 - Supporting Documentation 1
- Cloud-Hosted Data Solution 2**
 - Databricks Delta Sharing..... 2
 - Usage 2
 - Tracking Databricks Delta Sharing Account Usage 2
 - Databricks Delta Sharing Access..... 3
 - Creating a Catalog for your Shared Data 3
 - Tracking Table Load Times 4
- Advanced Topics..... 5**
 - Change Data Feeds (CDF)..... 5
- Revision History 6**

Document Overview

What You Will Find in this User Guide

This document provides information to help you log into Databricks Delta Sharing, a secure protocol to access live data from S&P Global's lakehouse with your computing platform.

Supporting Documentation

Xpressfeed File Delivery Schedule – This spreadsheet provides expected full and change file delivery times as well as the length of time the files remain on the server.

If you are linking to other S&P Global Market Intelligence datasets, supporting documents are available at support.marketplace.spglobal.com.

Cloud-Hosted Data Solution

Databricks Delta Sharing

Databricks offers advanced and secure data sharing across organizations with direct connections to shared datasets in the cloud. This allows for seamless integration into your existing workflows without the need for time-consuming data ingestion.

As part of our Xpresscloud offering, the Delta Sharing open-source protocol makes data sharing simple regardless of your computing platform, supports a variety of data tools, and is capable of handling massive datasets, making it particularly beneficial for large-scale data analysis.

Databricks Delta Sharing enables:

- Secure sharing of live data without replication.
- Centralized governance through a single point of enforcement.
- Sharing of nontabular data and data derivatives.
- Internal sharing across business units.
- Peer-to-peer sharing.
- Reduced time to value.

Usage

Xpresscloud is a multitenant application in which a single instance of software runs on a server and serves multiple tenants. Multitenancy allows multiple tenants to work in a software environment at the same time, each with their own separate user interface, resources, and services.

Xpresscloud can be accessed by several simultaneously connected users over the internet.

Tracking Databricks Delta Sharing Account Usage

We collect some metrics for usage, such as the number of records returned, query statements, query runtime, and query cost in terms of compute resource consumed.

Databricks Delta Sharing Access

S&P Global Market Intelligence shares its data by creating a “share” (a container for your dataset) featuring:

- a database
- a dataset containing objects
- specific objects, e.g., secure tables, and secure UDFs, in each shared dataset


S&P Global shares data through a *Databricks-to-Databricks* Delta Sharing model, which means **you must have a Databricks account to subscribe to and access Shares from S&P Global.**

S&P Global will provide a seamless share of licensed data to your account. You must provide the Databricks Metastore ID through which you want to receive S&P Global data, after which you will receive usage privileges to the share in your account.

Follow this [link](#) on the Databricks website for more information on how to access and read data via Databricks Delta Sharing.

Creating a Catalog for your Shared Data

To make shared data from S&P Global accessible to your team, you must create a Catalog from the share.

In your Databricks workspace, click  **Catalog** and click on ‘Delta Sharing’ on your interface. Under the ‘Shared with me’ tab, you can find the org name (also known as a sharing identifier) associated with S&P Global data, which is **aws:us-east-1:spg-mi-b050aad32d1d**.

Catalog Explorer >

Delta Sharing

aws:us-east-1:spg-mi-b050aad32d1d

Shared with me | Shared by me

This is all the data shared with your organization. Providers share data with your account through shares. You can view shares from providers and create a catalog from a share to view and use the data.

Filter providers... 4 Providers Import data

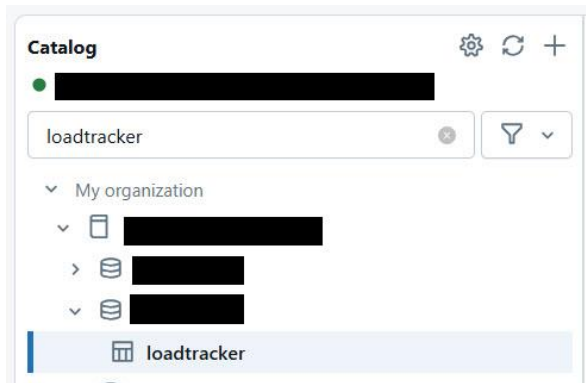
Name	Authentication type	Owner	Created at	Comment
[REDACTED]	DATABRICKS	ac_l_metastoreAdmins	Mar 14, 2024, 04:56 PM	
aws:us-east-1:spg-mi-b050aad32d1d	DATABRICKS	ac_l_metastoreAdmins	Feb 18, 2025, 06:11 AM	
[REDACTED]	DATABRICKS	ac_l_metastoreAdmins	Feb 18, 2025, 06:08 PM	
[REDACTED]	DATABRICKS	ac_l_metastoreAdmins	Apr 08, 2024, 02:40 PM	

Clicking on this org name will display all the shares you subscribe to from S&P Global.

Follow this [link](#) on the Databricks website more information on how to create a catalog for data shared with you, including alternate methods using SQL or the Databricks Unity Catalog CLI.

Tracking Table Load Times

After creating a Catalog for your shared data, you will be able to access a table called 'loadtracker' associated with the data. You can find this table by using the search bar in the Catalog interface, or by navigating to it in the interface.



The 'loadtracker' table records the loading status of various tables in your data. It includes details such as the last table update time, the last loaded file, and the sequence of loading files. This table can be used to monitor the progress of loaded files and track the frequency of loaded files.

Data in this table is presented as follows:

PACKAGENAME (string): The name of the package impacted by the update.

TABLENAME (string): The name of the table impacted by the update.

LASTTABLEUPDATETIME (timestamp_ntz): The date and time of the update for the impacted table.

LASTLOADEDFILE (string): The name of the .zip file containing the update associated with the LASTTABLEUPDATETIME. The filename is a concatenation as follows: (PACKAGENAME)(LASTLOADEDFILETIME)-(LASTLOADEDFILESEQUENCE).zip.

LASTLOADEDFILETIME (timestamp_ntz): The date and time the change file for the update was uploaded to Databricks.

LASTLOADEDFILESEQUENCE (decimal(4,0)): A number indicating the recency of the loaded file among all other updates for the impacted table in a given day. For example, a LASTLOADEDFILESEQUENCE of 4 would indicate the file is the 4th load of the day. The highest number returned by this field is therefore the latest loaded file.

Note: Data with the timestamp_ntz data type are in the UTC time zone, down to 3 digits of fractional seconds. Follow this [link](#) from Databricks for more details on the timestamp_ntz data type.

Advanced Topics

Change Data Feeds (CDF)

S&P Global data on Databricks allows you to track change records per table for each package specified, in what are referred to as Change Data Feeds.

Any S&P Global dataset you subscribe to will be accompanied by a corresponding dataset with the same name but appended with `_cdf`. This is the Change Data Feed. You can view this to see changes made at specified times to each table in your dataset. Historical records in the Change Data Feeds are restricted to a 60-day period.

Data returned by a Change Data Feed includes the columns from the original dataset, as well as the following notable columns:

`_change_type` (string): The nature of the change for a given column in a table. Data returned in this column will be one of the following:

- **insert** – addition of the data for the relevant column
- **update** – revision/update of the data for the relevant column – you can filter on `update_preimage` or `update_postimage` to identify the updates for a given table
- **delete** – removal of the data for the relevant column

`_commit_version` (bigint): A Databricks internal version identifier for the published change in data.

`_commit_timestamp` (timestamp): The point in time when the data changes were published.

Below is an example of some data from a Change Data Feed.

	<code>companyid</code>	<code>_change_type</code>	<code>_commit_version</code>	<code>_commit_timestamp</code>
1	24616	insert	216	2025-05-14T03:03:18.000+00:00
2	26156	insert	216	2025-05-14T03:03:18.000+00:00
3	27892	insert	216	2025-05-14T03:03:18.000+00:00
4	28105	insert	216	2025-05-14T03:03:18.000+00:00

In row 1 of this example, there was a new data item '24616' added to the `companyid` column of the impacted dataset, as indicated by the 'insert' in the corresponding `_change_type` column.

Revision History

Version	Date	Changes
V1.0	05/28/2025	Initial version

Copyright © 2025 by S&P Global Market Intelligence, a division of S&P Global Inc. All rights reserved.

These materials have been prepared solely for information purposes based upon information generally available to the public and from sources believed to be reliable. No content (including index data, ratings, credit-related analyses and data, research, model, software or other application or output therefrom) or any part thereof (Content) may be modified, reverse engineered, reproduced or distributed in any form by any means, or stored in a database or retrieval system, without the prior written permission of S&P Global Market Intelligence or its affiliates (collectively, S&P Global). The Content shall not be used for any unlawful or unauthorized purposes. S&P Global and any third-party providers, (collectively S&P Global Parties) do not guarantee the accuracy, completeness, timeliness or availability of the Content. S&P Global Parties are not responsible for any errors or omissions, regardless of the cause, for the results obtained from the use of the Content. THE CONTENT IS PROVIDED ON "AS IS" BASIS. S&P GLOBAL PARTIES DISCLAIM ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE CONTENT'S FUNCTIONING WILL BE UNINTERRUPTED OR THAT THE CONTENT WILL OPERATE WITH ANY SOFTWARE OR HARDWARE CONFIGURATION. In no event shall S&P Global Parties be liable to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs or losses caused by negligence) in connection with any use of the Content even if advised of the possibility of such damages.

S&P Global Market Intelligence's opinions, quotes and credit-related and other analyses are statements of opinion as of the date they are expressed and not statements of fact or recommendations to purchase, hold, or sell any securities or to make any investment decisions, and do not address the suitability of any security. S&P Global Market Intelligence may provide index data. Direct investment in an index is not possible. Exposure to an asset class represented by an index is available through investable instruments based on that index. S&P Global Market Intelligence assumes no obligation to update the Content following publication in any form or format. The Content should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions. S&P Global keeps certain activities of its divisions separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain divisions of S&P Global may have information that is not available to other S&P Global divisions. S&P Global has established policies and procedures to maintain the confidentiality of certain non- public information received in connection with each analytical process.

S&P Global may receive compensation for its ratings and certain analyses, normally from issuers or underwriters of securities or from obligors. S&P Global reserves the right to disseminate its opinions and analyses. S&P Global's public ratings and analyses are made available on its Web sites, www.standardandpoors.com (free of charge) and www.ratingsdirect.com (subscription), and may be distributed through other means, including via S&P Global publications and third-party redistributors. Additional information about our ratings fees is available at www.standardandpoors.com/usratingsfees.