



ANALYTICS  
DATASTORE API -  
VERSION 1.0

Manual and Reference  
September 2021

Analytics Datastore provides clients with an API mechanism for accessing the underlying data of Portfolio Publisher Document or Analytics DataFeeds in a standardized format.

Through the API, you can:

- Request pre-calculated Portfolio Analytics data saved in FactSet's Analytics Datastore, via deterministic URLs, and
- Power your client portals and internal data visualization tools with highly responsive fetch times

## Contents

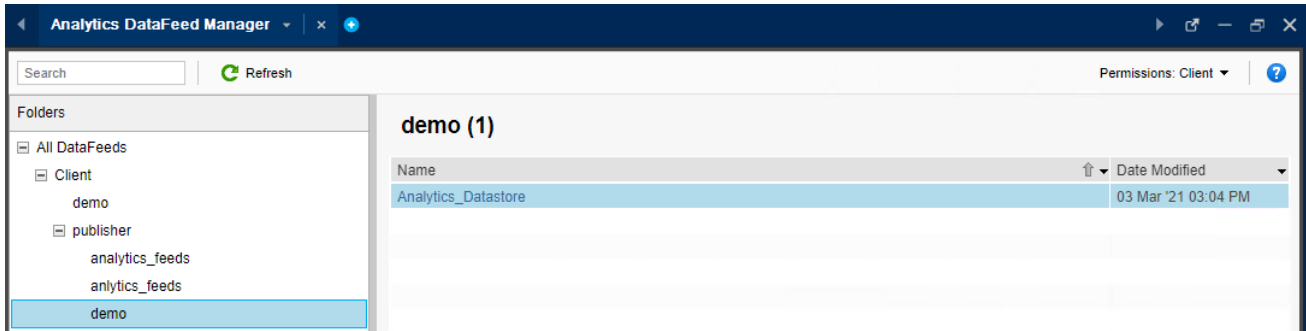
LOADING THE ANALYTICS DATASTORE .....	3
Analytics DataFeed .....	3
PA/SPAR source documents .....	3
PRB job .....	4
RETRIEVING DATA FROM THE ANALYTICS DATASTORE .....	6
URL construction.....	6
Sample API calls .....	7
DOCUMENTATION .....	9
STACH .....	9

## LOADING THE ANALYTICS DATASTORE

The following is an example set up:

Analytics DataFeed

*Client:/Publisher/Demo/Analytics\_Datastore*

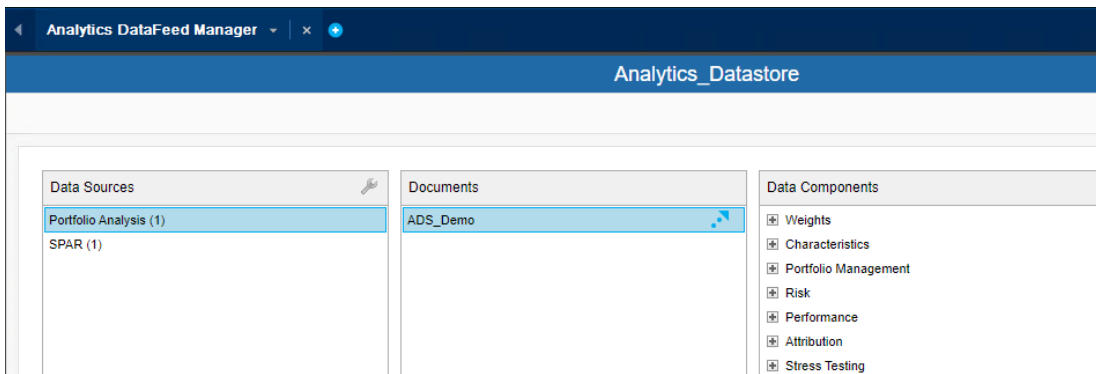


PA/SPAR source documents

\*(housed within Analytics DataFeed)

*ADS\_Demo.PA3*

*ADS\_Demo.SPAP3*



Portfolio Analysis 3.0 - Attribution | 2 Factor Brinson Attribution [pa3s/ADS\_Demo.PA3] (@PA)

PA3S/ADS\_DEMO.PA3 CLIENT:LARGE\_CORE.ACC SPN:SP50 U.S. Dollar Trading Utilities Apply Trades

REPORTS: Weights, Characteristics, Portfolio Management, Risk, Performance, Attribution, 2 Factor Brinson Attribution, 3 Factor Brinson Attribution, Top Down Attribution, Geometric Attribution, Risk Attribution, Stress Testing, Stress Testing Summary, Stress Testing Factor Contrib...

**U.S. Large Cap Core vs S&P 500** > Connected to ADF > Analytics\_Datastore

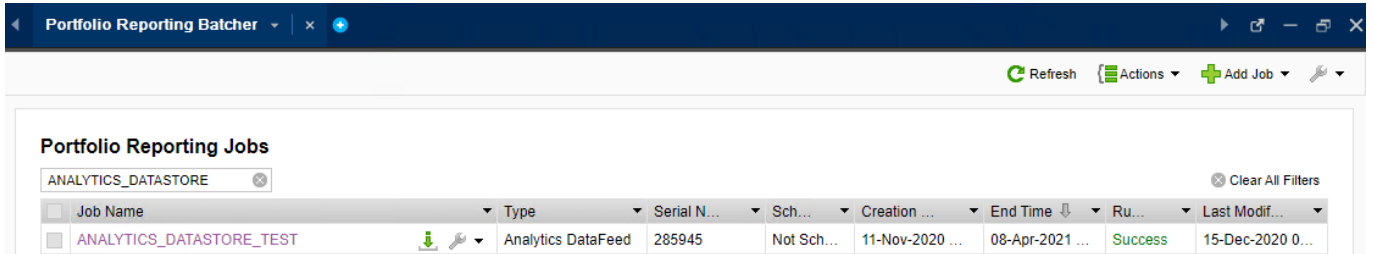
**2 Factor Brinson Attribution**

10-APR-2020 - 31-MAR-2021 Economic Sector - GICS - M... Excluded: [Unassigned]

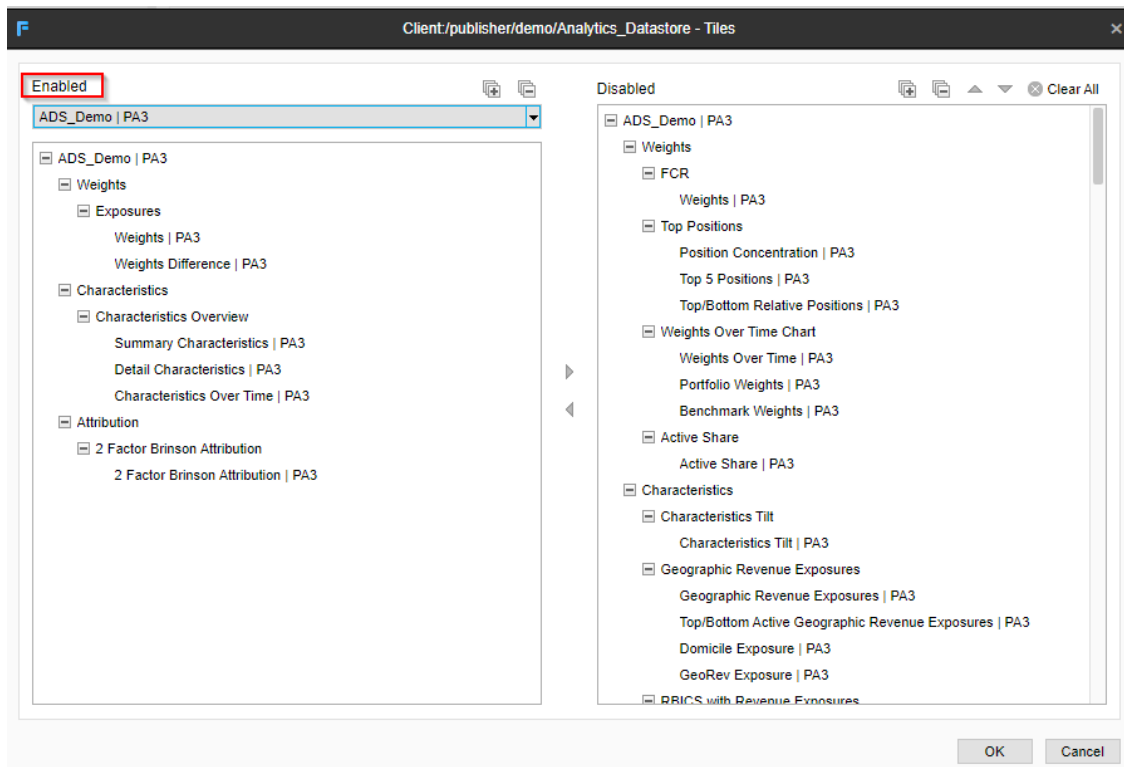
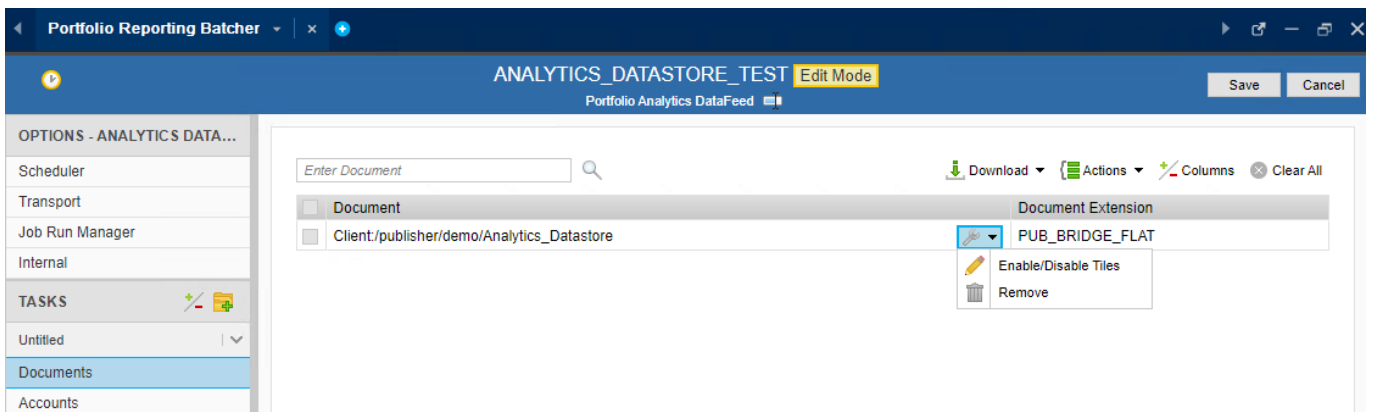
	U.S. Large Cap Core			S&P 500			Attribution Analysis		
	Port. Average Weight	Port. Total Return	Port. Contrib. To Return	Bench. Average Weight	Bench. Total Return	Bench. Contrib. To Return	Allocation Effect	Selection Effect	Total Effect
<b>Total</b>	<b>100.00</b>	<b>52.24</b>	<b>52.24</b>	<b>100.00</b>	<b>44.76</b>	<b>44.76</b>	<b>1.58</b>	<b>5.90</b>	<b>7.48</b>
☒ Communication Services	8.52	50.53	4.48	10.93	52.55	5.62	-0.01	-0.15	-0.17
☒ Consumer Discretionary	5.39	103.71	4.81	11.51	57.94	6.32	-0.70	1.84	1.14
☒ Consumer Staples	7.21	34.16	2.15	6.81	20.41	1.50	0.01	0.55	0.55
☒ Energy	7.25	60.82	4.18	2.53	50.80	1.20	0.26	0.83	1.09
☒ Financials	16.12	52.23	7.88	10.35	48.96	4.48	0.32	0.61	0.94
☒ Health Care	18.48	20.93	4.68	14.12	25.09	4.02	-0.81	-1.01	-1.82
☒ Industrials	13.99	80.07	10.21	8.30	58.11	4.45	0.76	2.47	3.23
☒ Information Technology	20.08	54.04	11.85	27.24	57.23	15.20	-0.81	-0.33	-1.14
☒ Materials	2.19	98.90	1.85	2.61	56.25	1.39	0.16	0.80	0.95
☒ Real Estate	0.51	12.58	0.08	2.64	15.26	0.34	0.93	0.14	1.08
☒ Utilities	0.28	6.29	0.06	2.97	8.77	0.23	1.32	0.16	1.48
☒ [Cash]	0.00	0.01	0.00	--	--	--	0.14	--	0.14

PRB job

**ANALYTICS\_DATASTORE\_TEST**



- The job is loaded with the “Analytics\_Datastore” document, and any desired accounts
  - PA3/SPAR3 reports/tiles can be enabled/disabled – anything enabled will be loaded to the Datastore
    - Open the job, select Documents, click the wrench icon > Enable/Disable Tiles



- Data for each PA/SPAR tile/account combination will persist in the Datastore for a default 60 days (can be adjusted if needed).
- If the PRB job is rerun for the same PA/SPAR tile/account combination, the existing data will be overwritten. Currently, the Datastore is not set up to store history.

## RETRIEVING DATA FROM THE ANALYTICS DATASTORE

To access data from the Datastore, we use Swivel URL calls, which return a redirect to a Cargo URL. The Swivel URLs are deterministic – underlying data in the Datastore is reloaded each period, but the Swivel call remains static.

We have flexibility in the Swivel URL construction, and they can be adjusted based on consumer needs. Below is a guide to our standard URL construction for this type of workflow.

Data is returned in STACH format. See [links below](#) for documentation.

### URL construction

[https://api.factset.com/analytics/pub-datastore/swivel/v1/\[DocName\]/\[AssetName\]/\[ReportId\]/\[TileId\]/\[AccountId\]](https://api.factset.com/analytics/pub-datastore/swivel/v1/[DocName]/[AssetName]/[ReportId]/[TileId]/[AccountId])

Name	Description	Example
	Service Paths	<a href="https://api.factset.com/analytics/pub-datastore/swivel/v1/">https://api.factset.com/analytics/pub-datastore/swivel/v1/</a>
[DocName]	Analytics DataFeed document name	Analytics_Datastore
[AssetName]	PA/SPAR Asset Name & Extension	ADS_Demo.PA3
[ReportId]	Report ID	report7
[TileId]	Tile ID	tile0
[AccountId]	Account ID	LARGE_CORE

### Sample URL

[https://api.factset.com/analytics/pub-datastore/swivel/v1/Analytics\\_Datastore/ADS\\_Demo.PA3/report7/tile0/LARGE\\_CORE](https://api.factset.com/analytics/pub-datastore/swivel/v1/Analytics_Datastore/ADS_Demo.PA3/report7/tile0/LARGE_CORE)

\*The API will be enhanced so PA/SPAR report and tile IDs are more accessible and easily discoverable. In the meantime, your FactSet representative will aid in the mapping of report and tile IDs.

Sample API calls

The below samples provide a glimpse of the API’s entry point (Swivel) which provides a location redirection to get the output (Cargo).

- 1.) **GET Swivel** call example (in Postman > Settings > Automatically follow redirects > turn OFF)  
[https://api.factset.com/analytics/pub-datastore/swivel/v1/Analytics\\_Datastore/ADS\\_Demo.PA3/report7/tile0/LARGE\\_CORE](https://api.factset.com/analytics/pub-datastore/swivel/v1/Analytics_Datastore/ADS_Demo.PA3/report7/tile0/LARGE_CORE)

**Result:** view underlying Cargo path in **Headers > Location**

The screenshot shows a Postman interface for a GET request to `https://api.factset.com/analytics/pub-datastore/swivel/v1/Analytics_Datastore/ADS_Demo.PA3/report7/tile0/LARGE_CORE`. The response status is 302 Found. The 'Headers' tab is selected, showing 18 headers. The 'Location' header is highlighted with a red box, containing the URL: `https://api.factset.com/analytics/pub-datastore/cargo/v1/groups/a4186c50f8e74f979d271dd22298c901/objects/fe875bc4150542dea6bc237663a01a0d`.

- 2.) Run a **GET Cargo** call on the URL retrieved from step #1  
<https://api.factset.com/analytics/pub-datastore/cargo/v1/groups/a4186c50f8e74f979d271dd22298c901/objects/fe875bc4150542dea6bc237663a01a0d>

**Result:** response Body in **JSON STACH** format

The screenshot shows a Postman interface for a GET request to `https://api.factset.com/analytics/pub-datastore/cargo/v1/groups/a4186c50f8e74f979d271dd22298c901/objects/fe875bc4150542dea6bc237663a01a0d`. The response status is 200 OK. The 'Body' tab is selected, showing the response in JSON format. The JSON structure includes a 'tables' array with one table object containing 'definition' and 'data' fields. The 'data' field contains a table with columns and rows.

\*With automatic redirects turn on, the same **GET Swivel** call will return the same JSON response Body as the GET Cargo call from step #2 (in Postman > Settings > Automatically follow redirects > turn ON)

[https://api.factset.com/analytics/pub-datastore/swivel/v1/Analytics\\_Datastore/ADS\\_Demo.PA3/report7/tile0/LARGE\\_CORE](https://api.factset.com/analytics/pub-datastore/swivel/v1/Analytics_Datastore/ADS_Demo.PA3/report7/tile0/LARGE_CORE)

**Result: response Body in JSON STACH format**

The screenshot shows a Postman interface for a GET request. The URL is `https://api.factset.com/analytics/pub-datastore/swivel/v1/Analytics_Datastore/ADS_Demo.PA3/report7/tile0/LARGE_CORE`. The response status is 200 OK, with a time of 229 ms and a size of 61.21 KB. The response body is displayed in JSON format, showing a nested structure with a table definition and data.

```
4     "57c73693-bbf4-493b-90f7-2230377900f4"
5   },
6   "tables": {
7     "57c73693-bbf4-493b-90f7-2230377900f4": {
8       "definition": {
9         "headerTableId": "33f4f59a-a240-4987-81bf-360ccbb59af",
10        "columns": [ ...
123      ]
124    },
125    "data": {
126      "rows": [ ...
193    ],
194    "columns": { ...
3303  },
3304  "metadata": { ...
3386  }
3387  }
-----
```



## DOCUMENTATION

### STACH

[STACH format documentation](#)

[Stachschema SDKs](#)

[STACH 2.0 DEVELOPERS MANUAL](#)

[STACH 2.0 SIMPLIFIED ROW ORGANIZED FORMAT EXAMPLE](#)