

# Baltic Exchange API Baltic Exchange Ltd

Version: 1.2

# Baltic Exchange

# Contents

Overview
Authentication
Portal Login3
API Authentication
API Key Management4
Feed Management5
Creating a Feed5
Editing Feeds6
Cloning Feeds7
Viewing Feed Logs7
Viewing Feed Schemas7
Viewing a Feed8
Source Management8
Source Types8
Adding Sources to a Feed8
Source screen9
Index10
FFA11
FFA Trade14
Fixture Type15
Removing a Source from a Feed17
Data Retrieval
Detecting Data Changes18
Getting Data19
Via the UI19
Via external calls20
Via Excel22
API Limits23
Error Handling24
Common UI Errors24
Common API Errors24
Testing the API25
Using Swagger25
Using Postman



Appendix	29
Schemas	



# Overview

The Baltic API allows you to create feeds of sources that you can access programmatically to retrieve data.

You can define feeds within the portal. These feeds are unique to you and allow you define what data you want and in what format you want them.

# Authentication

# Portal Login

You can access the portal here: <u>https://api.balticexchange.com</u>.

You will be presented with a login screen from which you can use your existing Baltic login credentials.

If you are not entitled yet to use the API endpoints, you can still login and use the portal to see how it works.

Once you are logged in, in the top right you will see your profile.



You can logout by clicking "Logout". This will take you back to the login screen.

## **API** Authentication

If you are entitled to use the API endpoints, you are assigned an API Key.

You can access your key once you have logged in. In the top right of the screen, you see your profile.



Clicking on the key icon will open a dialog box, displaying the key. You will only see this icon if you are entitled to use the API endpoints.

API key			
Value			
		Ø	
			close



Clicking on the copy icon will copy the key value to your clipboard.

You will use the key when making requests against the API. You will assign its value to the header "x-apikey" when making requests. More on this in the section <u>Data retrieval</u>.

### **API Key Management**

If you are entitled to use the API endpoints, you will be assigned an API Key.

It is important to keep this key safe as you will use it to access the data endpoints. If you want to manage your own API keys, then you can request this by emailing <a href="mailto:support@balticexchange.com">support@balticexchange.com</a>.

If you need to change your API key (if you think your API key is compromised, for example), you can enable "API Key Management", clicking "Enable key management".

APH	xey
Val	ue
	0
	Enable key management
	1.0
	ciose

If API Key management is enabled for your account, you will see this instead.

API keys				
Value	Valid for (days)		Actions	
C	180	ACTIVE	Remove	
Generate new API key				
Disable key management				
			close	

You can add a new key by clicking "Generate new API key".

API keys			
Value	Valid for (days)	Actions	
Ø	180	ACTIVE	Remove
C	180	Set active	Remove
Generate new API key			
Disable key management			
			close



Only one key can be active at any one time. Click "Set active" to choose which key you want to be able to use.

You can also remove any inactive key by clicking "Remove".

Note, you can disable key management, but if you do this, you will need to contact <u>support@balticexchange.com</u> to reactivate it.

**IMPORTANT:** If you have "API Key management" enabled, your API Keys will have expiries applied to them. Once they expire, you will not be able to use them to retrieve data and you will need to generate a new key and set it active.

# **Feed Management**

Feeds are collections of data sources for which you can get data for. You can create as many feeds as you like and define what sources you want in them. Once you have done this, you can then call endpoints to determine when the latest data has changed for any sources within that feed and to retrieve data within it.

## **Creating a Feed**

You can create a new Feed by clicking "New Feed" from the left-hand navigation.



This will open the "New Feed page".

New feed	
Name	
Format	Version
CREATE CANCEL	

Choose a name for your feed. It is useful here to name your feed something that tells you what is in it.

The "Format" determines the format of the data that will be returned by the API data endpoint. Depending on what your account is enabled for, you can select between the following options.

- JSON
- XML legacy
- CSV



If you are a new API customer, you will only get access to JSON. If you would like to have access to XML and/or CSV, please contact <a href="mailto:support@balticexchange.com">support@balticexchange.com</a>.

The version indicates the schema version of the data returned. If you are unsure on which to choose, select the highest version number as it typically contains the most metadata and data. More on this in the <u>Versioning</u> section.

When you have chosen the name, format and version, click "Create". You will be then taken to the "Feed" page.

Feeds	Capesize
+ NEW FEED	EDIT 😰 CLONE 🏚 VIEWLOG 🗄 VIEWSCHEMA 🍫
<b>Capesize</b> JSON   v1.3	i Market data
	Family
	Category
	Туре
	Intelligence
	FFA Trades
	Fixtures

You have a couple of options for your feed, namely:

- Edit
- Clone
- View log
- View schema

### **Editing Feeds**

Clicking "Edit" on the "Feed page" will display the "Feed edit screen".

Feeds	Edit feed		
+ NEW FEED	Name		
Capesize JSON   v1.3	Format JSON	Version ~	*
	UPDATE CANCEL		
	DELETE		

You can edit the name of the Feed. Once you are done, click "Update" to save your changes.

Currently, you are not able to change the format or the version.

Clicking "Delete" will display a confirmation. Note, this decision is not reversible.



# **Cloning Feeds**

Clicking "Clone" on the "Feed page" will display the "Feed clone" screen.

Cloning a feed creates a copy on one of your existing feeds and its sources. The cloned copy also has the same format and version as the original.

You may want to do this to try out any amends to an existing feed.

Feeds		Clone feed
+ NEW FEED		Name Capesize
Capesize JSON   v1.3	1	CLONE CANCEL

Choose a name for the cloned feed and click "Clone". This will take you to the "Feed page" of the cloned feed.

# Viewing Feed Logs

Clicking "View log" on the "Feed screen" will display the "Feed Log screen". Here is an example.

Log			REFRE	SH 🕄 CLOSE 🗙
Actions				
All				-
From		То		
dd/mm/yyyy	Ð	dd/mm/yyyy		111
Action	Information		Client IP	Timestamp
Executed	All		::1	23/11/2024 11:05:24
Added source	C5: Capesize West Australia to Qingdao		::1	23/11/2024 11:04:55
Removed source	C5: Capesize West Australia to Qingdao		::1	22/11/2024 14:19:08
Added source	C5: Capesize West Australia to Qingdao		::1	22/11/2024 13:57:57
Created	Name: Capesize   Format: JSON   Version: v1.3		::1	22/11/2024 11:16:08

This lists when, what and from what IP address from, changes or execution to a feed have been made.

Use the filters to focus on certain types of events or date ranges.

# **Viewing Feed Schemas**

Clicking "Schema" on the "Feed page" will display the "Schema" screen. Here is an example.

Feeds	Schema	CLOSE #
+ NEW FEED	{     "sachema": "https://joon-schema.org/draft/2020-12/schema",     "sachema": "https://joon-schema.org/draft/2020-12/schema.org/draft/2020-12/schema",     "sachema": "https://joon-schema.org/draft/2020-12/schema.org/draft/2020-	adownioad 📓
Capesize JSON v1.3	<pre>sur : nrtp://www.unitionarcommange.com/vi_tourname.com/, "Items": { anyoff: [</pre>	

It displays the schema for the feed's format and version. You can download it by clicking on the "Download" button.



Full details of the currently supported formats and version, and their respective schemas can be found in the <u>Appendix</u>.

### Viewing a Feed

Clicking on feed in the left-hand navigation will display the feed page.

Feeds	Capesize	JSON
+ NEWFEED	TOTT OF CLONE & VEWLOG IN	6 MOCKEN
Capesize I JSON I V1.0	+ ADD FEED SOURCE	Period  Cutot  Output O
	Market data	O From/To
	CS West Australia to Clean Lao	29/12/2024 29/01/2005
		Excel
		B Download Fixcal file
		Command
		Shell (Window) + cLRL +
		Latest data change
		curl*  trtps://anj.haiticenchange.com/api/vi.3/feed/ //atestfatumChangeOn*  - header ** agalaegi :
		View latest data charge
		Data output
		con't
		View output

# Source Management

You decide on what data sources are included in your feed.

Opening the "Feed" screen gives you options to manage sources within it using the "Source Explorer".

# Source Types

Sources are organised into two groups.

#### • Market data

These are either indices or FFAs. They are further organised in three ways:

- o Family
- $\circ$  Category
- o Type
- Intelligence There are FFA Trades or Fixtures.

## Adding Sources to a Feed

Indices and FFAs reside within families, categories, and types. Using the "Source Explorer", you can find sources by each one of these.

For example, you can find the index C5 by either of these ways.



- 1. Market data: Family > Family: Capesize > Category: Routes > C5
- 2. Market data: Family > Family: Capesize > Type: Dry > C5
- 3. Market data: Category > Category: Routes > Family: Capesize > C5
- 4. Market data: Category > Category: Routes > Type: Dry > C5
- 5. Market data: Type > Type: Dry > Family: Capesize > C5
- 6. Market data: Type > Type: Dry > Category: Routes > C5

Essentially, you can find sources by how you know them.

Here is an example of navigating to C5 via the first option.

Feeds	Capesize					ISON Via
+ H2WF222	101 9 LOS \$ VILLO #	Tercars a				
Capello II		Machelitica	Family	Linguy	barco	C5
	+ 401319040	1444 A	NOT	Webberge	10,507 And a Madacabara Indiana and Andrewski	Caperize West Australia to Giegdao
		Citaran	OND IT	- Design	invertice)	P 10.000 (9)
		18×	Entities Connection (and any	A REAL PROPERTY.	Challen of Automatics and States	A second seco
		intribuce	INURANE AND AND A STREET	201200	642.162	halfs follow her Dates Date Dates Dates
		10.046	STURN	Type	(Na aparangada sustanga 🚽 🗛	Control Reality Bar Reality Re
		Return .		DV	1100 A	S max
				Aust 11th	9	bits     O Althour Mar 1985
			DDD Anton Participa Party Sector Secondary by		$\mathcal{L}_{\mathrm{prim}}(\mathrm{densit}(\mathrm{densit}(\mathrm{densit}))) \leq \mathcal{L}_{\mathrm{prim}}(\mathrm{densit}(\mathrm{densit}))$	C hash
			90.1		58 ×	
			3087955		9	Gentered
			014.0075		0.51	5 Statistical * 198 *
			PROTO REPORT		100 21	(art) (f art
			803		The Supermethants of States - An	Nilacija opaljek relative - Roden in placa
			17.4.47		410 JA	Colpui
			101.1.100.0V			New Salar
			107		Consultation to belie into	
			04		6167	200 C

When you have got to the source you want included in your feed, click "Add to feed".

When you have done that, the source is added to the "Source list" in your feed, and a marker (a blue triangle in the top right) is added to the source, indicating it is in your feed.

Feeds	Capesize
+ NEW FEED	EDIT 🗹 CLONE 🏨 VIEWLOG 🗄
Capesize JSON   v1.3	+ ADD FEED SOURCE
	Market data
	C5 Capesize West Australia to Qingdao
C5 Capesize West Australia to Qingdao	

### Source screen

The source screen varies depending on the data type, namely:



- Index
- FFA
- FFA Trade
- Fixture

You may or may not be entitled for all types of data. If you have queries about what you do, or do not have access to, please contact <u>support@balticexchange.com</u>.

#### Index

Here is an example of an index source.

C5 Capesize West Austre + ADD TO FEED	ralia to Qingdao D					\$/MT NOV 22, 2024
Family	Category	Туре	Data from	Data to	Datum unit	Datum precision
Period <ul></ul>	22/11/2024					
Command Environment	Langauge					
Shell(Windows) curl^ http:// header *x-apikey:	V1.3/feed/	/s	:ource/	/data^		С сору
Output View output						

#### Metadata

This section displays some details of the index such as:

- Current value
- Family
- Category
- Type
- Data from
- Data to
- Datum unit
- Datum precision

#### Data filter

In the "Period" section, you can select a date range for which you want data. "Latest" is selected by default. You can choose "All" or explicitly set "From" and "To" dates.

Note, when you select/change these values, the command window is dynamically updated.



#### Command window

The command window displays what command can be run outside of the UI, as an example of retrieving data.

You can select the command environment and language. Changes to these will dynamically update the command.

Click "View output", runs the command and displays its output. The output is of the format and version of the feed you are within. Once you have got an output, you can click "download" to download the result locally.



Changing the environment, language or period values will reset the output.

Clicking the "copy" button copies the command text to your clipboard. As an example, copying and then running the command in a Windows command window, yields a result like the below.

Command Prompt X + v	_		×
Microsoft Windows [Version 10.0.22631.4460] (c) Microsoft Corporation. All rights reserved.			
C:\Users\HarshAshtekar>curl^ More? http:// // // // // // // // // // // // //	/da	ata^	
"id": "C5", "shortCode": "C5", "shortDecryTetics", "Congriss Wast Australia to Ginadao"			
"displayGroup": "Capesize west Australia to Qingdao", "displayGroup": "Capesize", "datumUnit": "\$/mt",			
"datumPrecision": 3, "breeoiEco":, "breeoifull":,			
"datumStartOn": "1999-03-01T00:00:00", "datumEndOn": "2024-11-22T00:00:00", "data" [			
{     "value":,     "value":,			
Bate: 2024-11-22 } ],			
"apiIdentifier": "" } C:\Users\HarshAshtekar>			

#### FFA

Here is an example of an FFA source.



amily		Category Forward curves	<b>Type</b> Dry		Data f Sep 1,	i <b>rom</b> 2005	Data to Nov 21, 2024	Da \$/t	tum unit	Datun 3	precision
Route	Period	Value	Change	Route	Period	Value	Change	Route	Period	Value	Change
C5CURMON	Nov 24	\$/ton	\$/ton	C5CURQ	Q4 24	\$/ton	\$/ton	C5+1CAL	Cal 25	\$/ton	\$/t
C5+1MON	Dec 24	\$/ton	\$/ton	C5+1Q	Q125	\$/ton	\$/ton				
C5+2MON	Jan 25	\$/ton	\$/ton	C5+2Q	Q2 25	\$/ton	\$/ton				
C5+3MON	Feb 25	\$/ton	\$/ton	C5+3Q	Q3 25	\$/ton	\$/ton				
C5+4MON	Mar 25	\$/ton	\$/ton	C5+4Q	Q4 25	\$/ton	\$/ton				
C5+5MON	Apr 25	\$/ton	\$/ton								
						<ul> <li>All (from</li> <li>From/T</li> <li>21/10</li> </ul>	n: Sep 1, 2005) b D/2024	21/11/2024			
ommand wironment Shell (Window	ve) 🗸	Langauge cLIRI	~								
:url^ http://		/v1.3/feed/			/source/		10	lata^			C cop

#### Metadata

This section displays some information about the FFA, such as:

- Current value of associated index
- Current values
- Family
- Category
- Type
- Data from
- Data to
- Datum unit
- Datum precision

#### Options

For FFAs, you can optionally select having the output using HMG (High Monthly Granularity).

Note, when you change this value, the command window is dynamically updated.

#### Date filter

In the "Period" section, you can select a date range for which you want data. "Latest" is selected by default. You can choose "All" or explicitly set, "From" and "To" dates.

Note, when you select/change these values, the command window is dynamically updated.



#### Command window

The command window displays what command can be run outside of the UI as an example of retrieving data.

You can select the command environment and language. Changes to these will dynamically update the command.

Click "View output", runs the command and displays its output. The output is of the format and version of the feed you are within. Once you have got an output, you can click "download" to download the result locally.

Output	
<pre>Cutput  (</pre>	4 download
"date: "2024-11-21100:00:00", "groups": [ { "periodype": "m", "projections": [ {	
"identifier": "CSCHRMON".	

Changing the environment, language, HMG option or period values will reset the output.

Clicking the "copy" button copies the command text to your clipboard. As an example, copying and then running the command in a Windows command window, yields a result like below.

<pre>C:\Users\HarshAshtekar&gt;curl^ More? http:// /v1.3/feed/ /source/ ///////////////////////////////////</pre>
"datumUnit": "\$/ton", "datumPrecision": 3,



### FFA Trade

Here is an example of an FFA Trade source.

#### Metadata

This section displays some information about the FFA Trade symbol, such as:

- Category
- Sector
- Vessel
- Available from
- Available to

#### Types filter

For FFA Trades, you can select the type of output you want, such as:

- Trades
- Intraday
- Trades + Intraday

Note, when you change this value, the command window is dynamically updated.

#### Date filter

In the "Period" section, you can select a date range for which you want data. "Latest" is selected by default. You can choose "All" or explicitly set, "From" and "To" dates.

Note, when you select/change these values, the command window is dynamically updated.

#### Command window

The command window displays what command can be run outside of the UI as an example of retrieving data.

You can select the command environment and language. Changes to these will dynamically update the command.

Click "View output", runs the command and displays its output. The output is of the format and version of the feed you are within. Once you have got an output, you can click "download" to download the result locally.



<pre>{    </pre>
<pre>"id": "TC2-FFAR", "satcor": "Clean", "satcor": "Clean", "vassl: "37000", "shortBoscription": "TC2 Futures Contract", "tradedford": "TC2 Futures Contract", "tradedford": "TC2 Futures Contract", "tradedford": "TC2 FART", "shortBoscription": "TC2 Futures Contract", "tradedford": "TC2 FART", "gougedfrades": [ {     futures for the future for the fu</pre>
<pre>"name:: "122-FFA", "category: "Futures", "sector": "Clean", "vessel:: "3000", "tradedfor:: "2021-12-JTH1:53:00", "tradedfor:: "2021-12-JTH1:53:00", "tradedfor:: "2021-12-JTH1:53:00", "tradedfor:: "2024-11-21Th5:29:24", "shortCode:: TC2-FFATR", "groupedFrades:: [], "tradedfor:: "2024-11-21", "timeFerIods": [</pre>
<pre>category: rutures, "sector": TCleam, "vassel: "J000", "tradedfrom": TC2 Futures Contract", "tradedfrom": TC2 Futures Contract, "tradedfrom": TC2 Futures Contract, "tradedfrom": TC2 Futures Contract, "tradedfrom": TC2 Futures Contract, "tradedfrom": TC2 Futures Contract, "shortCond": TC2 Futures Contract, "groupefframes: [</pre>
<pre>setCor : CLEAN ,</pre>
<pre>visit : 3/000 , "shortDescription: "1C2 Futures Contract", "tradedFrom": 2024-13-1711:33:00*, "shortCode": "TC2-FATN", "groupeFrades": [</pre>
<pre>shortOsk:fiftion : Tc2 rotures contract ,</pre>
<pre>tradedrom : worl:r:pini:sive ,</pre>
<pre>characteries :: interface :: interface</pre>
"groupefrades": [], "Intradaytrades": [ { "tradedor: "2024-11-21", "timeBerriods": [ { "taces": [ { "taces": [ { "avergePrice"; "avergePric
"IntradayTrades": [ { "tradedom": "2024-11-21", "timePeriods": [ ( "key": "20:00", "trades": [ ( " "geriod": "Dec 24", "averagePrice": ", "averagePrice": ",
<pre>(</pre>
"tradedon": "2024-11-21", "timePeriods": [ (
"timePeriods": [
<pre>(     "key": "20:00",     "trades": [     {</pre>
"key": "20:00", "trades": [ { "period": "Dec 24", "averagePrice": "aggregatchts: "
"trades": [ ( "period": "Dec 24", "averagePrice": "ageregateicts":
{     "period": "Dec 24",     "averagePrice":     "agregateIots":
"period": "Dec 24", "averagePrice": , "aggregateLots":
"averagePrice": , "aggregateLots":
"aggregateLots":
}
1.
(
key: 14:00,
trades : [
l "naniod": "Dec 24"
"averagePrice"
"agreente ints"-

Changing the environment, language, type options or period values will reset the output.

Clicking the "copy" button copies the command text to your clipboard. As an example, copying and then running the command in a Windows command window, yields a result like below.



### **Fixture Type**

Here is an example of a Fixture Type source.



PERIOD			
FXTTRVOV52RXY20H2JXIGEQ3JSK2LRDH 🛱			
+ ADD TO FEED			
Available from		Available to	
Aug 30, 2024		Nov 21, 2024	
Period			
Latest			
All (from: Aug 30, 2024)			
From/To			
30/07/2024	30/08/2024		
Command			
Environment Langauge			
Shell (Windows) - cURL -			
<pre>curl^ http://localhost:50655/v1.3/feed/</pre>	/fixtureTy	e/ /da	🗘 сору
header "x-apikey:			
Output			
View output			
view output			

#### Metadata

This section displays some information about the Fixture source, such as:

- Available from
- Available to

#### Date filter

In the "Period" section, you can select a date range for which you want data. "Latest" is selected by default. You can choose "All" or explicitly set, "From" and "To" dates.

Note, when you select/change these values, the command window is dynamically updated.

#### Command window

The command window displays what command can be run outside of the UI as an example of retrieving data.

You can select the command environment and language. Changes to these will dynamically update the command.

Click "View output", runs the command and displays its output. The output is of the format and version of the feed you are within. Once you have got an output, you can click "download" to download the result locally.





Changing the environment, language or period values will reset the output.



## Removing a Source from a Feed

Clicking the "Remove from feed" button on the "Source" page, will prompt you to confirm you want to remove the source from the feed.

C5	\$/MT
Capesize West Australia to Qingdao	NOV 22, 2024
REMOVE FROM FEED -	

If you do this, the source is removed from the "Source list" of your feed and the marker is removed.



# Data Retrieval

### **Detecting Data Changes**

Typically, most Baltic index or FFA data sources change once a day. Because of this, it is *not* recommended that you execute data requests multiple times in short succession as the data is unlikely to change.

Because of this, we have provided an endpoint which tells you what time the last data change has been on for a feed. If this differs from a previous request, you will know the next request will contain data that will have changed.

On the "Feed screen", you will see this:

ſ	Latest data change		
	curl^ http:///////latestDatumChangeOn^header "x-apikey:	сору	
	View latest data change	_	

Clicking "View latest data change" will display when the data for this feed, has last changed.

Latest data change		
curl^ http:///vl.3/feed//latestDatumChangeOn^ header "x-apikey:	¢	сору
"2824-11-22712:59:58.912"		

You can make call to this endpoint as many times as you want. It is not rate limited.

IMPORTANT: Before making calls to the data endpoint, you should call this endpoint and compare the result against the last value you retrieved for it. If the value has not changed, the data endpoint will not yield different results.

If you do not do this and make too many data requests in short succession, you will risk hitting the API limits. See this section for details: <u>API Limits</u>.

You can run this command outside of the UI. As an example, copying and then running the command in a Windows command window, yields a result like below.



Command Prompt X + v		
Microsoft Windows [Version 10.0.22631.4460] (c) Microsoft Corporation. All rights reserved.		
C:\Users\HarshAshtekar>curl^ More? http:// // //.3/feed/ /latestDatumChangeOn*		
nore;neader x-apikey; "2024-11-2712:59:58.912" C:\Users\HarshAshtekar>		

# **Getting Data**

#### Via the UI

You can get data for a feed from the UI from the "Feed screen".

#### Date filter

In the "Period" section, you can select a date range for which you want data. "Latest" is selected by default. You can choose "All" or explicitly set "From" and "To" dates.

Note, when you select/change these values, the command window is dynamically updated.

#### Command window

The command window displays what command can be run outside of the UI as an example of retrieving data.

You can select the command environment and language. Changes to these will dynamically update the command.

Click "View output", runs the command and displays its output. The output is of the format and version of the feed you are within. Once you have got an output, you can click "download" to download the result locally.

Data output	
curl^ http:// /v1.3/feed/ /data^ header *x-apikey:	🛱 сору
<pre>{     {         "d": "CS",         "shortCode": "CS",         "shortCode": "CS",         "displayGroup": "Capesize West Australia to Qingdao",         "displayGroup": "Capesize",         "datumEnt: "Synet",         "datut</pre>	download



Note, there are limits to making data requests via the UI. See this section for more details: <u>API Limits</u>.

#### Via external calls

The UI presents details on how to call the data endpoints for your feeds outside of the UI. Your developers will integrate calls to the endpoints from their code, using GET endpoints. They are listed below.

HTTP Method	Details
GET	/{version}/feed/{feedApildentifier}/latestDatumChangeOn
	Gets the timestamp of the last data change within a feed. Use this before using the data endpoint.
GET	/{version}/feed/{feedApildentifier}/data
	Gets data for your feed.
GET	/{version}/feed/{feedApildentifier}/source/{sourceApildentifier}/data
	Gets data for a single index or FFA source within your feed.
GET	/{version}/feed/{feedApildentifier}/balticCode/{balticCodeApildentifier}/data
	Gets data for a single contract code within your feed.
GET	/{version}/feed/{feedApildentifier}/fixtureType/{fixtureTypeApildentifier}/data
	Gets data for a single fixture type within your feed.

Typically, you would be using the "lastDatumChangeOn" and "feed data" endpoint, as opposed to the endpoints for individual sources, contact codes and fixture types.

#### Parameters

Here is a list of the parameters and where you can find their values.

Parameter	Details
{version}	This is the version of the schema for your feed. You can find this on the top right of the "Feed" screen. Below, the "version" is "v1.3".



	JSON V1.3
{feedApildentifier} (URL fragment)	This is the "Feed API Identifier". You will find this under the title of your feed.
	FDS Feed API Identifiers have the prefix "FDS".
{sourceApildentifier} (URL fragment)	This is a "Source API Identifier". Sources are either index and or an FFA. You will find this on a "Source" screen.  C5 Capesize West Australia to Qingdao RDS Different market data source types have different identifier prefixes.  Indices: IDS or RDS
{balticCodeApildentifier} (URL fragment)	• <b>FFA:</b> RPS This is the "Baltic Code API Identifier". You will find this on the "Source" screen.
	C3-FFATR C3 futures contract BCT FFA Trade sources API Identifier have the prefix "BCT".
{fixtureTypeApildentifier} (URL fragment)	This is the "Fixture Type API Identifier". You will find this on the "Source" screen.



	Fixture Type source API Identifiers have the prefix "FXT".					
x-apikey (HTTP header)	This parameter should be set to your API key. See <u>API</u> <u>Authentication</u> .					
	It needs to be added as a header when making GET requests to the endpoints.					
from (query string)	Adding a query string parameter "from={yyyy-MM-dd}" to a data request, will ensure only data from the date specified.					
to (query string)	Adding a query string parameter "to={yyyy-MM-dd}" to a data request, will ensure only data to the date specified (inclusive).					
types (query string)	Adding a query string parameter "types={value}" to a FFA Trade data request, will ensure trades are returned for the types specified.					
	Valid values are:					
	<ul> <li>gt,in: Grouped trades + Intraday (default)</li> <li>gt: Grouped Trades only</li> <li>in: Intraday Trades only</li> </ul>					
asHmg (query string)	Adding a query string parameter "asHmg={value}" to a FFA data request, will ensure data is returned as HMG or not.					
	Valid values are:					
	<ul><li>true</li><li>false (default)</li></ul>					

#### Via Excel

On a feed page, you will see a button labelled "Download Excel file".



Clicking this will download an Excel file with a data source pre-built in connecting to the API with your credentials.

Opening this file will display what looks like a blank Excel file. However, clicking "Queries & Connections" on the "Data" tab will display the Power M queries within the file.



🗴 AutoSave (	) - C 🗐	ິ∽ <del>⊽</del> feed-			• Saved to this PC 🗸	𝒫 Search	٩	⊕ - a	- x
File Home	Insert Page Layo	ut Formulas D	ata Review View	Automate Help	Acrobat			다 Comments	🖻 Share 👻
Get Data ~	▼ Que Refresh	ries & Connections lerties kbook Links	Organization Stock	; Ţ z↓ Z z↓ So	t Filter & Advanced	Columns ‰ ↓	What-If Forecast Analysis - Sheet -		
Get & Transform	Data Queries &	Connections	Data Types		Sort & Filter	Data Tools	Forecast		
A1 ~	$\times \checkmark f_x \checkmark$								
A 1	ВС	D E	F G	н і	J K L	M N	Queries & Connections		
2 3							Querles Connections		
5							A <sup>8</sup> c data		
7 8							A <sup>8</sup> c meta		
9							Connection only.		
10 11 12							段 C8-Gibraltar/Hambur	g transatlantic r	
13 14							臣 C9-Cont-Med trip Ch	iina-Japan	
15 16							፼ C10-China-Japan trar	spacific round	
17 18									
19 20									
< >	Sheet1 +			E 🔍		• •			

You can use these connections to load data directly from the API into Excel. This is an example of loading the data for C8 into a worksheet.

×	AutoSave 🔘	<b>m</b> 日 り・		feed-					.xlsx 🗸						$\oplus$			
File	Home	insert Page L	ayout Fo	rmulas (	Data Rev	view View	Autom	ate Hel	p Acroba	at <u>Table</u>	Design				다. Con	nments	년 SH	nare 🗸
Table	e Name: Gibraltar_Hai Resize Table Properties	🔝 Summarize 🔜 Remove Du 📇 Convert to I	with PivotTab plicates Range Tools	ole Insert Slicer	Export Externa	Refresh	<ul> <li>✓ Hear</li> <li>Tota</li> <li>✓ Bana</li> </ul>	der Row I Row ded Rows	<ul> <li>First Colu</li> <li>Last Colu</li> <li>Banded C</li> <li>Table Style C</li> </ul>	umn ( umn Columns Options	✓ Filter But	ton		Table	Styles		•	~
A1	~	$\times \checkmark f_x \checkmark$																~
1 Da 2 3 4 5 6 7 8 9 10 11 12	A te Val	B C		E	F	G	H			K	Ô	Queri Queri 5 quer d c c m c c c c c c c c c c c c c c c c	es & Connection of the connect	only. r/Hambu	s		~ r	×
13 14 15 16 17 18 19 20 21 22 23 24 25 <	>	Sheet1	+										9-Cont-M	ed trip C Japan tra	hina-Jaţ	pan		
Ready	⊡ © A	ccessibility: Investi	gate										# B	凹			-+	100%

# **API Limits**

The following table details the API limits on the endpoints.

Endpoint suffix	Limit (requests per hour)
/lastDatumChangeOn	Unlimited
/data	60

The following table details the limits within the portal (UI).

Function	Limit (requests per minute)
Adding a feed	1



Adding a source	12
Getting the last datum change on	Unlimited
Data request	60

Note, the limits in determined from the timestamp of the last request made.

# **Error Handling**

# **Common UI Errors**

The following table details common UI errors.

Error	Reason
Too many requests	You may have made too many data requests. See <u>API Limits</u> .
	IMPORTANT: Remember to use the "lastDatumChangeOn" endpoint before requesting data. There are no limits on using that endpoint. See <u>Detecting Data Changes</u> .

# Common API Errors

The following table details common API error responses.

HTTP Error Response	Reason
401 (Unauthorised)	You may have used an incorrect value for the "x-api-key" header.
	You can also receive this if you are no longer authorised to consume the API endpoints. If you think you should be, please contact <u>support@balticexchange.com</u> .
	You will also get this response if your API key has expired. See <u>API Key Management</u> .
404 (Not found)	You may have used an incorrect value for one of the following:
	<ul> <li>version</li> <li>feedApildentifier</li> <li>sourceApildentifier</li> <li>balticCodeApildentifier</li> <li>fixtureTypeApildentifier</li> </ul> You may get this message if you no longer have access to a particular source due to permissions/licensing. If you think this has happened in error, please contact support@balticexchange.com.



	Occasionally, sources are deprecated. If this happens, you may get this error when directly making a data request for it.
429 (Too many requests)	You may have made too many data requests for a given period. See <u>API Limits</u> .
	IMPORTANT: Remember to use the "lastDatumChangeOn"
	endpoint before requesting data. There are no limits on using that
	endpoint. See <u>Detecting Data Changes</u> .
500 (Internal server error)	You should not receive this as it means something internally has gone wrong. We are notified if this happens, and a fix will be developed and implemented.
	If you are making a request, please try again in a few minutes as the fault may be intermittent.
	If you continue to receive this error, please contact <u>support@balticexchange.com</u> .

# **Testing the API**

# Using Swagger

You can use Swagger to test requests and responses. It is available here: https://api.balticexchange.com/api/swagger/ui/index.



To try out the endpoints, ensure you have entered your API Key into the text field "api\_key" and then click "Explore".



Here is an example of using the feed data endpoint.



🕀 swagger	http://	/swagger/docs/v1		Explore	
3altic Exchange: Market Data API					
Feed			Show/Hide List Operations Exp	and Operations	
GET /{version}/feed	/{feedApiIdentifier}/sour	ce/{sourceApiIdentifier}/data			
GET /{version}/feed	/{feedApiIdentifier}/balti	cCode/{balticCodeApiIdentifier}/dat	a		
GET /{version}/feed	/{feedApiIdentifier}/fixtu	reType/{fixtureTypeApiIdentifier}/d	ata		
cet /{version}/feed	/{feedAniIdentifier}/data	i e i j por (i inter e i j por ipresentine) i e			
Response Class (Status	200)				
Model Example Value					
Ð					
Response Content Type [ Parameters	application/json 🗸				
Parameter Valu	ie	Description	Parameter Type Data Type		
version v1.	3		path string		
feedApiIdentifier			path string		
to			query date-time		
Try it out Hide Response	<u>50</u>				
Curl					
curl -X GETheader	'Accept: application/isor	'header 'x-apikey:			
	Accept: application, joo			Þ	
Request URL					
http://	/v1.3/feed/	/data			
Response Body					
1					
"shortCode": "C	5",				
"shortDescripti "displayGroup":	on": "Capesize West Austr "Capesize",	alia to Qingdao",			
"datumUnit": "\$	/mt",				
"datumPrecision "breeoiEco":	": 3, ■,				
"breeoiFull":	"1999-83-01700-00-00"				
"datumEndOn": "	2024-11-25T00:00:00",				
"data": [ {					
"value":	, ,				
"date": "20 }	24-11-25"				
], "apiIdentifier"	: "				
}					
1				÷	
Response Code					
200					
Response Headers					
<pre>{     "access-control-all     "access-control-all</pre>	ow-credentials": "true", ow-headers": "X-Requested ow-ortigin": """, o-cache", 509", plication/json", v 2024 15:15:24 GMT", ", t-IIS/10.0", P.NET",	J-With, Content-Type, Authorization, OOST, PATCH, DELETE, HEAD, OPTIONS",	connectionId, x-apikey",		
}				Þ	
				,	
GET /{version}/feed	/{feedApiIdentifier}/lates	tDatumChangeOn			
(terestorij) i sed		0			
BASE URL: , API VERSION: V1 ]					



# **Using Postman**

You can use Postman to test your feed endpoints.

Here is an example of a feed data call.





# Appendix

# Schemas

Format	Version	Link
JSON	V1	https://api.balticexchange.com/assets/schemas/json/v1/feed_v1.sche
		ma.json
	V1.1	https://api.balticexchange.com/assets/schemas/json/v1.1/feed_v1_1.
		<u>schema.json</u>
	V1.2	https://api.balticexchange.com/assets/schemas/json/v1.2/feed_v1_2.
		<u>schema.json</u>
	V1.3	https://api.balticexchange.com/assets/schemas/json/v1.3/feed_v1_3.
		<u>schema.json</u>
XML	Indices	https://api.balticexchange.com/assets/schemas/XML%20-
		<u>%20legacy/indices_schema.xsd</u>
	Routes	https://api.balticexchange.com/assets/XML -
		legacy/routes/routes_schema.xsd
CSV	FFA	https://api.balticexchange.com/assets/CSV/FFA/schema.csv
	Physical	https://api.balticexchange.com/assets/CSV/Physical/schema.csv



