

FUEL PRICES QLD DIRECT API

API (IN) DEFINITION

API Version 1.8
Fuel Retailer Guide
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REVISION HISTORY

Version	Last Edited	Author	Changes
V1.0	25/10/2018	Gordon Tetther	Initial document release
V1.1	06/11/2018	Nick Milillo	Updated Overview
V1.2	26/11/2018	Gordon Tetther	Updated GRANT CLIENT CREDENTIALS section <ul style="list-style-type: none">- New UAT URL- Changed Request Header Updated UPDATE PRICE section <ul style="list-style-type: none">- Changed Request Header
V1.3	29/11/2018	Gordon Tetther	Added OPAL as a Fuel Type
V1.4	03/12/2018	Gordon Tetther	Added swagger Production URL
V1.5	05/12/2018	Gordon Tetther	Clarified price submission of 999.9 in UPDATE PRICE method
V1.6	26/06/2019	Nick Ferris	Minor text and formatting changes
V1.7	15/12/2020	Nick Ferris	Minor text and formatting changes
V1.8	03/03/2023	Nick Ferris	Minor text and formatting changes

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OVERVIEW

The [Queensland Government's mandatory Fuel Price Reporting scheme](#) requires all fuel retailers in Queensland to report their fuel prices within 30 minutes of a price change at the browser.

The Queensland Government has commissioned an external supplier (the 'Aggregator' known as Fuel Prices QLD) to operate the service that enables fuel retailers ("Fuel Sellers") to report their fuel prices.

Fuel retailers have a number of options available to report their fuel prices. These are:

- by directly reporting your fuel prices via www.fuelpricesqld.com.au.
- by direct data upload via an API (Application Programming Interface) or Flat file (plain text file) to Fuel Prices QLD.
- by direct bulk data upload to Fuel Prices QLD through a fuel retailer appointed third party agent.
- by phone where an internet connection is not available.

This Fuel Retailer User Guide relates to the API method of reporting.

Subject to a Fuel Seller successfully completing the sign-up and authentication process, it will be granted access to the Fuel Prices QLD Direct API (IN) in order to supply updates for fuel pricing data at all locations for that retailer.

This document defines the API methods for using the Fuel Prices QLD Direct API (IN) service.

The functionality of the service is published as public API methods. Registered Fuel Sellers will be provided with an API Key to use this service.

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The Fuel Prices QLD Direct API (IN) is designed to enable registered Fuel Sellers to supply retail fuel prices for their service stations across Queensland.

The Fuel Prices QLD Direct API (IN) requires that all calls be made using HTTPS and a valid API Key is provided where specified.

INITIAL CONFIGURATION

The Fuel Seller needs to provide a full list of sites and fuels for which it will be supplying pricing transactions that will be mapped against an 8-digit identifier code and a set of named fuel types supplied by the Aggregator.

GENERAL INFORMATION

Use of HTTPS

All requests of the Fuel Prices QLD Direct API (IN), from the Fuel Seller, must use HTTPS.

Terms

The following terms are used in this document.

Fuel Seller

The company/entity which must supply Fuel Prices QLD with fuel price data and use of the Fuel Prices QLD Direct API (IN).

Fuel Prices QLD Direct API (IN)

Server based software which accepts data from Fuel Sellers. The Fuel Prices QLD Direct API (IN) will be used to supply fuel prices to the Aggregator.

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API Key

A key which will be provided to the Fuel Seller. The Fuel Seller can use this key when making calls to the API. A different key will be provided to each Fuel Seller.

Additional Information

HTTP Content Type header

When an API method is called, the HTTP request header must have the “Content-Type” header set to “application/json” for any API method which requires JSON payload.

Possible HTTP response statuses

When an API method is called, the HTTP response status may be one of the following:

- 200 – OK [The request was processed without error]
- 400 – The request is invalid [One or more parameters had an invalid value]
- 401 – Unauthorised [A valid API key was not provided, when one was expected]
- 403 – Forbidden [API refuses to respond to the call]
- 404 – Not found [API does not have this method]
- 500 – Internal Server Error [An unexpected error occurred on the server]

The Fuel Seller should examine the HTTP response code in order to perform appropriate actions before consuming any values in the body of the response.

Environments

An ‘integration’ environment for the Fuel Prices QLD Direct API will be made available against which Fuel Sellers verify software that will connect to the API itself.

Important: Prices sent to the integration environment are not treated as live prices – they are treated as test data prices only. Sending prices to the integration environment does not

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satisfy any legal requirement to provide prices to Fuel Prices QLD. Fuel Sellers need to connect their production software to the production version of the Fuel Prices QLD Direct API (IN), when advised that is going to be made available in the live environment.

Swagger

Swagger for the API in the Integration environment is located here

<https://fuelpricesqld.informedsources.com/staging/pricesinapitest/swagger>

Swagger for the API in the Production environment is located here

<https://www.fuelpricesqld.com.au/pricesinapi/swagger>

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API METHODS

This document defines the public methods of the Fuel Prices QLD Direct API.

GET REFERENCE DATA

UAT URI	<a href="https://<address>/fuel/lovs">https://<address>/fuel/lovs (to be provided during the testing phase)				
Method	GET				
Objective	Returns list of reference data to be used in subsequent requests.				
Request Header					
Fields				Data Type	Description
apiKey	Optional			string	Unique key assigned to the Fuel Seller by the Aggregator.
transactionid	Optional			string	Unique ID of this call.
requesttimestamp	Required			dateTime	UTC date and time of request. Format “dd/MM/yyyy hh:mm:ss AM/PM”
If-modified-since	Required			datetime	UTC date and time for comparison with the modification date of the data. The response will be empty if no changes have been made to the reference data since this timestamp, otherwise all reference data will be returned.
Response Header					
Fields				Data Type	Description
transactionid				string	Unique ID for this call. Copies from request header.
requesttimestamp				dateTime	The UTC date and time of request made. Copied from the request header. Format “dd/MM/yyyy hh:mm:ss AM/PM”
responsetimestamp				dateTime	The UTC date and time of the response. Format “dd/MM/yyyy hh:mm:ss AM/PM”
last-modified				dateTime	The UTC date and time of the most recent modification to the reference data.
Response – 200 Success					
Fields				Data Type	Description
brands					Structure containing the list of brands.
	Items[]				
fueltypes					Structure containing list of fuel types.
	Items[]				
		code		string	Fuel type code e.g. “P95”
		name		string	Fuel type description e.g. “Premium 95”
stations					Structure containing list of stations.
	Items[]				
		brandid		string	
		stationid		string	Station identifier.
		name		string	Station name.

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		address		string	The address of the station.
		location			
			latitude	decimal	Latitude
			longitude	decimal	Longitude
locationtypes					Structure containing the list of location types that can be specified for location-based queries. Currently blank.
	Items[]				
trendperiod					Structure containing the list of periods for which price trend data are available. Currently blank.
	Items[]				
sortfields					Currently blank.
	Items[]				
Response – 500 Internal Server Error					
Fields				Data Type	Description
errordetails					Structure containing error details.
	code			string	error code
	description			string	error description

The following table lists all fuel types and fuel codes used in this API.

Fuel Type	Code
Ethanol 94 (E10) (RULP 91 plus up to 10% ethanol)	E94
Ethanol 105 (E85) (ULP plus up to 85% ethanol)	E105
Unleaded 91	U91
Premium 95	P95
Premium 98	P98
Diesel	DL
Premium Diesel	PDL
Biodiesel 20	B20
LPG	LPG

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CNG/NGV	CNG
LNG	LNG
OPAL	OPAL

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GRANT CLIENT CREDENTIALS

UAT URL	<a href="https://<address>/oauth/client_credential/accesstoken?grant_type=client_credentials">https://<address>/oauth/client_credential/accesstoken?grant_type=client_credentials (to be provided during the testing phase)				
Method	POST				
Objective	The Fuel Seller can request an access token using its API key. This request is only required to perform the price update request.				
Request Header					
Fields				Data Type	Description
Authorization				string	Encoded value of user id and password will be provided to the Fuel Seller and will be used by the Fuel Seller as follows. E.g. “Basic [encoded string]”
Request Body					
No fields in the request body.					
Response Header					
There is no distinct response header for this request.					
Response – 200 Success					
Fields				Data Type	Description
refresh_token_expires_in				string	Never used.
api_product_list				string	The name of the product under which the API key is present.
api_product_list_json				string	The name of the product in JSON format under which the API key is present.
organization_name				string	Fuel Seller name.
developer.email				string	Fuel Seller technical contact email address.
token_type				string	The token type associated with the request; “Bearer token”
issued_at				string	Current time’s ticks value.
client_id				string	Subscriber ID in encrypted form.
access_token				string	This is the most important field in the response body as the value of this needs to be inserted into the header of the fuel/prices/update API call.
application_name				string	Application name.
scope				string	shows if we can perform read, write and delete operations; “Read/Write”.
expires_in				string	The number of seconds in which the token expires.
refresh_count				string	Never used.
status				string	Approved/rejected.
Response – 401 Unauthorised					
Fields				Data Type	Description
Error_code				string	Error code e.g. “Invalid client_id”
Error				string	Error message e.g. “Client identifier is invalid”.
Response – 500 Internal Server Error					
Fields				Data Type	Description
errordetails					Structure containing error details.

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	code			string	error code
	description			string	error description

UPDATE PRICE

UAT URI	https://<address>/fuel/prices/update (To be provided during the testing phase)
PROD URI	https://<address>/fuel/prices/update (To be provided after the testing phase)
Method	POST
Objective	Submits one or more fuel price changes for a specific service station.

Request Header

Fields				Data Type	Description
Authorization	Required			string	Contains the access token returned from the "Grant Client Credentials" request. The value of the access token needs to be prefixed by "Bearer ". E.g. "Bearer C61ANNB1twAABEJvq8"
apikey	Required			string	Unique key assigned to Fuel Seller.
userid	Optional			string	The user ID of the Fuel Seller system.
transactionid	Optional			string	Unique ID of this call.
userlocation	Optional			string	Location of the requestor (IP address or geographic coordinates to be decided).
requestTimeStamp	Optional			string	UTC Time of request "dd/MM/yyyy hh:mm:ss AM/PM".

Request Body

Fields				Data Type	Description
stations[]					Structure containing fuel prices for one or more service stations.
		identifier		string	Identifies the service station. The service station identifier is assigned by the Aggregator on behalf of DRNME.
		fuelprices[]			
			isavailable	boolean	Currently ignored by our API.
			fueltype	string	Fuel type code. Refer to "Get Reference Data" for permitted values.
			price	decimal	Price of this fuel in cents per litre "109.9". Use a price of "999.9" if the fuel is temporarily unavailable.

Response Header

Fields				Data Type	Description
transactionid				string	Unique ID of this call. Copied from request header.
requesttimestamp				datetime	The UTC Date Time of the request made. Copied from request header. "dd/MM/yyyy hh:mm:ss AM/PM".
responsetimestamp				datetime	The UTC Date Time of the response; "dd/MM/yyyy hh:mm:ss AM/PM".

Response – 200 Success

Fields				Data Type	Description
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warnings[]					Structure containing 1 or more warnings.
			code	string	Warning code e.g. "W0001".
			description	string	Warning message, e.g. " Price change for U91 is suspect for station 61700038. Exceeds permittable range."
Response – 400 Bad Request					
Fields				Data Type	Description
errordetails[]				string	Structure containing 1 or more error details.
			code	string	Error code e.g. "E0002".
			description	string	Error description e.g. "Invalid fueltype ZZZ".
Response – 500 Internal Server Error					
Fields				Data Type	Description
errordetails[]					Structure containing error details.
			code	string	error code.
			description	string	error description.

An example request body is as follows:

```
{
  "stations": [
    {
      "identifier": "61000001",
      "fuelprices": [
        {
          "isavailable": true,
          "fueltype": "U91",
          "price": "132.9"
        },
        {
          "isavailable": true,
          "fueltype": "DL",
          "price": "132.9"
        },
        {
          "isavailable": true,
          "fueltype": "P95",
          "price": "132.9"
        }
      ]
    },
    {
      "identifier": "61000002",
      "fuelprices": [
        {
          "isavailable": true,
          "fueltype": "DL",
          "price": "132.9"
        },
        {

```

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```
    "isavailable": true,  
    "fueltype": "LPG",  
    "price": "132.9"  
  },  
  {  
    "isavailable": true,  
    "fueltype": "U91",  
    "price": "132.9"  
  }  
]  
}  
]
```