

Search for Changes to Entities

The NZBN API allows you to build search functionality into your own software that searches for any changes to businesses on the NZBN Register. You have the option to use this in a production or a sandbox environment.

Before you begin

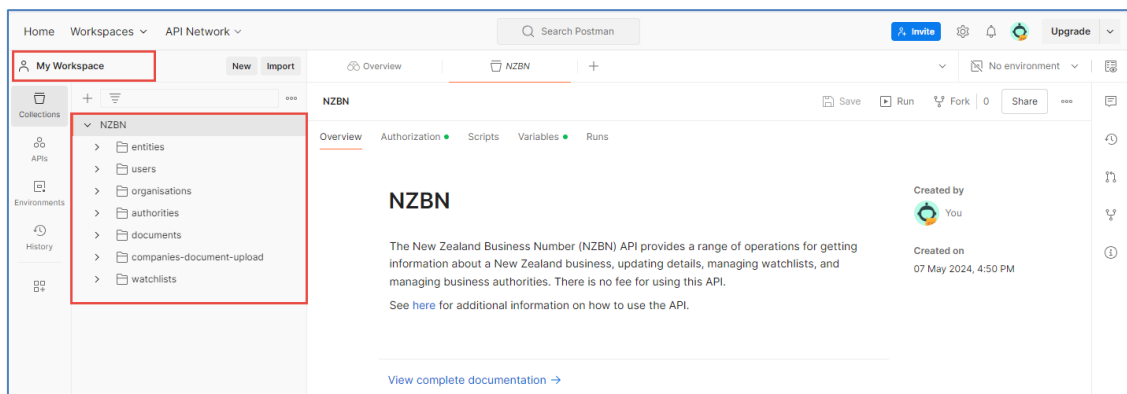
You must have:

- [Registered](#) in the [MBIE API developer portal website](#) and [subscribed](#) to the NZBN API. Once approved for access you can retrieve API subscriber keys that allow you access to production and sandbox.
- Registered and signed in to Postman (the premium API testing tool) and imported the NZBN API. Set up a production environment and/or sandbox environment in Postman, see Quick Reference Guide – **Set Up Environments**.

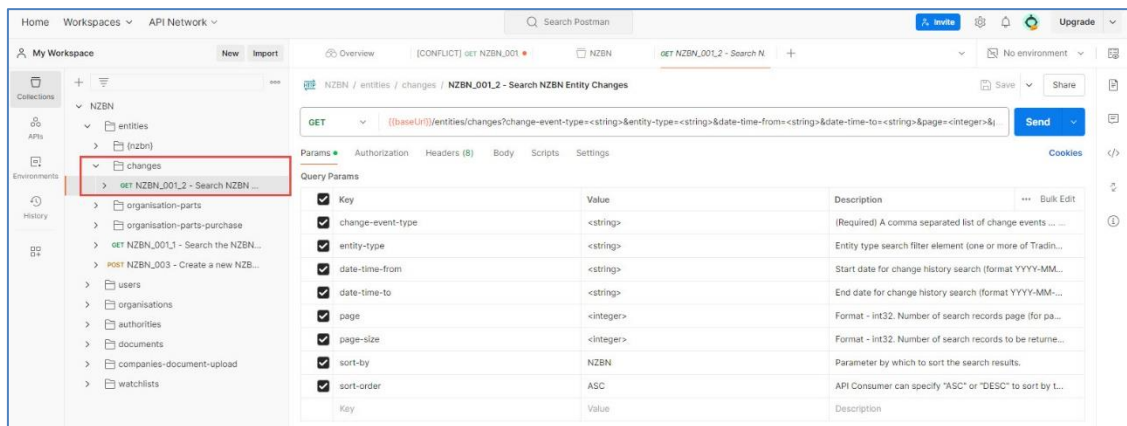
Create a search for NZBN entity changes

This example shows how to create a request to perform a text search between a date range for any changes to NZ businesses in the in the NZBN Register using Postman.

1. Select and expand the **NZBN** in your workspace in Postman.

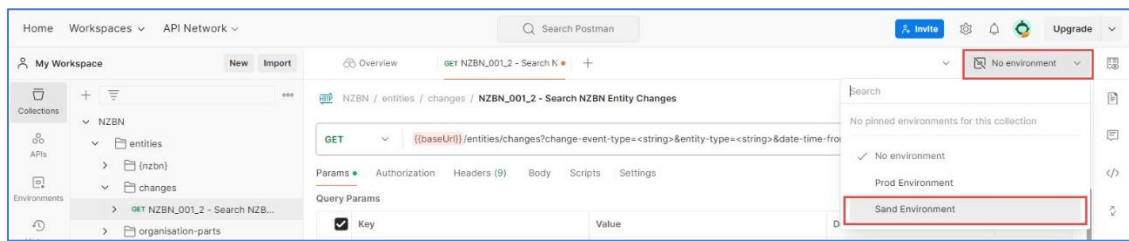


2. Expand **Changes** in the workspace tree then select **NZBN_001_2 – Search NZBN entity changes**.



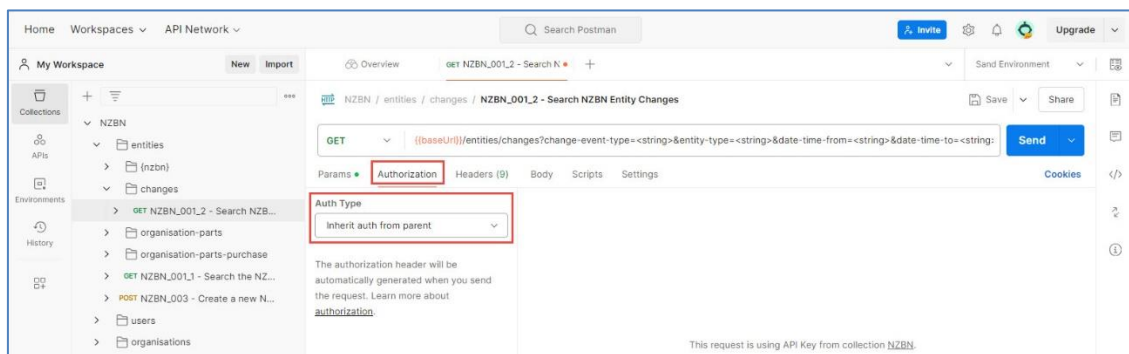
- The available parameters display for this search.

Select the **Environment** you require in the top right of the screen, (e.g. Sand Environment).

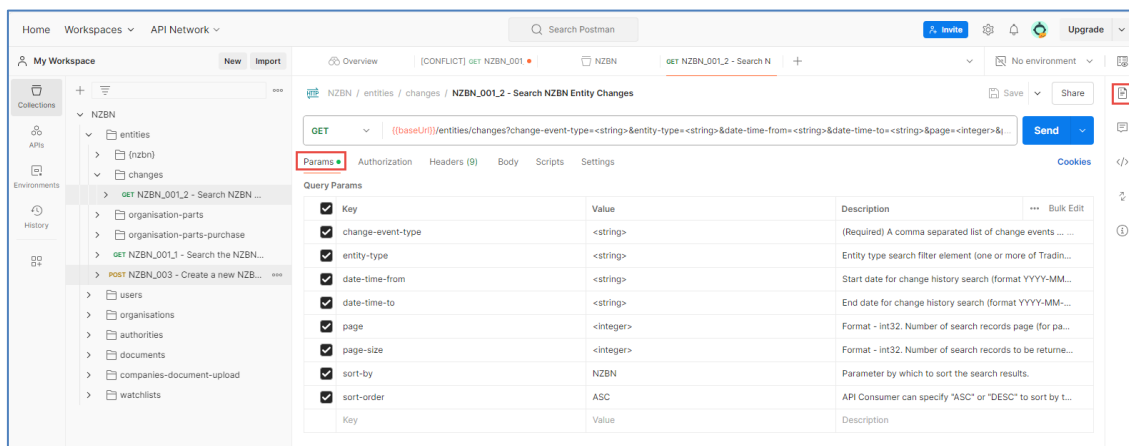



Note: We recommend you set up a production environment and/or a sandbox environment before performing any API requests. These environments then automatically reference variables created at the NZBN parent level. Refer to Quick Reference Guide - **Set Up Environments**.

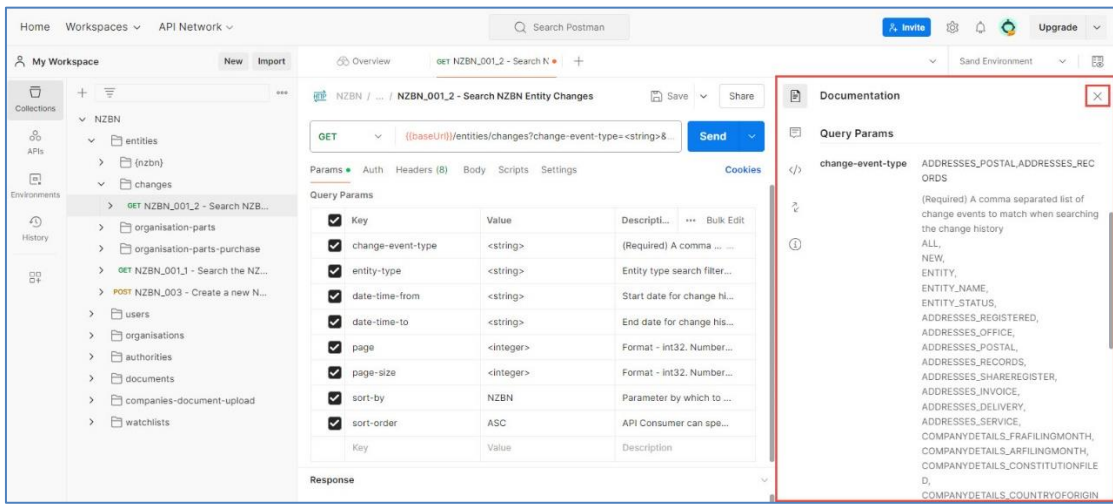
3. Click **Authorisation** and check the **Auth Type** is set to **Inherit auth from parent**.



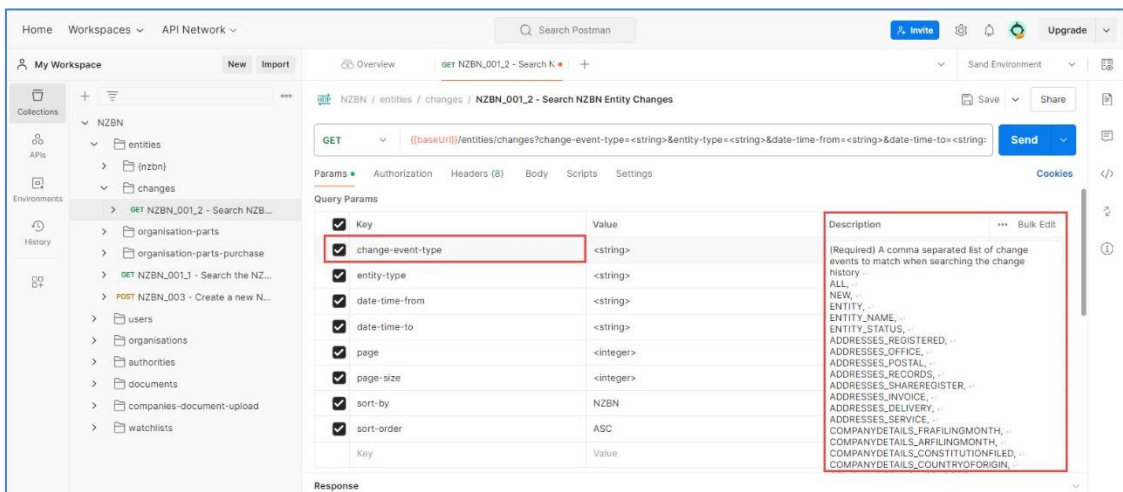
4. Click **Params** to return to the parameters screen. All parameters default as selected.



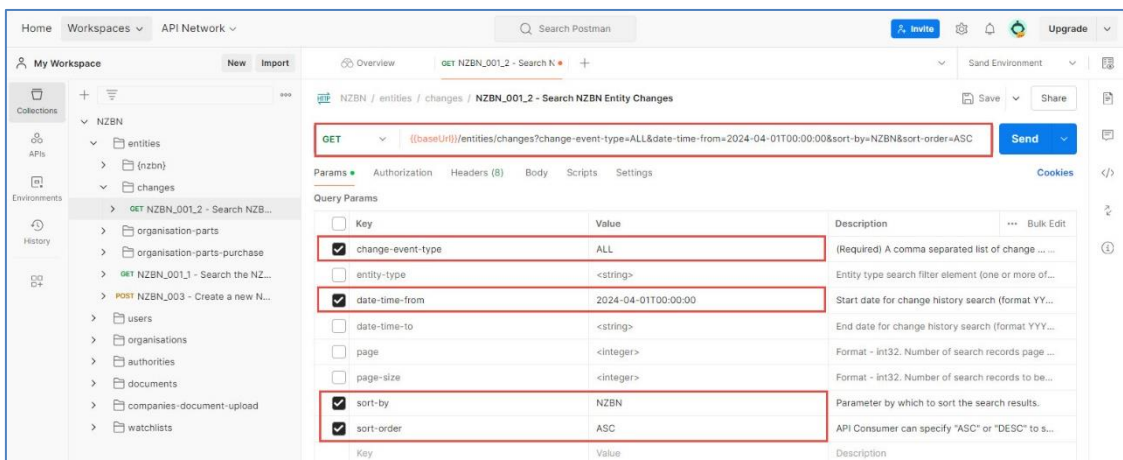
- If required, click  (Documentation icon) in the top right view the documentation for these parameters and scroll to see all details. This is the same information that displays on the NZBN API website.



- Click **X** to close the Documentation panel.
- Alternatively, click the **Description** field for a parameter to view the documentation for that parameter.



5. For this search, the mandatory field is **change-event-type**. Type (or paste) the value(s) over **<string>** in the **Value** column for this parameter.
6. To refine your search, use the **date-time-from** and any other parameter(s) relevant to this search. This also updates the **GET** statement above.



- Click the box in front of any parameter to deselect those not required. All selected parameters must contain a value.

7. Click **Send** to perform the search. The results of your search display below in the Response area.

- Hover the mouse over the top of the results area and drag it up to expand the search results area then scroll down to view all results.

Search Example

Request all changes of postal address and records addresses from 01 April 2024 to date then click **Send**.

The screenshot shows a Postman interface for an API request. The request is a GET call to the endpoint `{baseUrl}/entities/changes?change-event-type=ADDRESSES_POSTAL_ADDRESSES_RECORDS&date-time-from=2024-04-01T00:00:00`. The query parameters are:

Key	Value	Description
<input checked="" type="checkbox"/> change-event-type	ADDRESSES_POSTAL_ADDRESSES_RECORDS	(Required) A comma separated list of change...
<input type="checkbox"/> entity-type	<string>	Entity type search filter element (one or more o...
<input checked="" type="checkbox"/> date-time-from	2024-04-01T00:00:00	Start date for change history search (format Y...
<input type="checkbox"/> date-time-to	<string>	End date for change history search (format YY...
<input type="checkbox"/> page	<integer>	Format - int32. Number of search records page...
<input type="checkbox"/> page-size	<integer>	Format - int32. Number of search records to b...
<input checked="" type="checkbox"/> sort-by	NZBN	Parameter by which to sort the search results.
<input checked="" type="checkbox"/> sort-order	ASC	API Consumer can specify "ASC" or "DESC" to ...

The response body is shown in JSON format:

```
4  {"totalItems": 7,  
5  "sortBy": "NZBN",  
6  "sortOrder": "ASC",  
7  "items": [  
8    {  
9      "change": "0430925332638",
```

- Hover the mouse over the top of the results area and drag it up to expand the search results area then scroll down to view all results.

Note: The response time for your search is 2 minutes. If your request is taking longer to respond Postman displays an error message to advise. Adjust the date range parameters to a lesser period. We recommend a daily date range.

Alternatively, you could set up a Watchlist which would update you when changes occur, see Quick Reference Guide – **Watchlists**.