

# Navigation Data For Applications

- [Endpoint & Required Headers](#)
- [ExampleExample Request](#)
- [Supported Locales](#)
- [Navigation Data File Structure](#)
- [JSON Model Structure](#)
  - [ROOT](#)
  - [EVENT\\_TYPE](#)
  - [GROUP](#)
  - [EVENT](#)
  - [RACE](#)
  - [MARKET](#)

## Endpoint & Required Headers

This Navigation Data for Applications service allows the retrieval of the full Betfair market navigation menu from a compressed file.

Exchange	HTTP Method	Endpoint
UK	GET	<a href="https://api.betfair.com/exchange/betting/rest/v1/en/navigation/menu.json">https://api.betfair.com/exchange/betting/rest/v1/en/navigation/menu.json</a>
ITALY	GET	<a href="https://api.betfair.it/exchange/betting/rest/v1/it/navigation/menu.json">https://api.betfair.it/exchange/betting/rest/v1/it/navigation/menu.json</a>
SPAIN	GET	<a href="https://api.betfair.es/exchange/betting/rest/v1/es/navigation/menu.json">https://api.betfair.es/exchange/betting/rest/v1/es/navigation/menu.json</a>



### Best Practice

The file data is cached and new request for the file once an hour should be suitable for those looking to accurately recreate the Betfair navigation menu.

The following request headers are required:

- **X-Application** - Your [Application Key](#)
- **X-Authentication** - Your session token, obtained from the API login response.

## Example Request

```
GET https://api.betfair.com/exchange/betting/rest/v1/en/navigation/menu.json
Connection: keep-alive
X-Application: <AppKey>
X-Authentication: <SessionToken>
Accept: application/json
Accept-Encoding: gzip,deflate
```

## Supported Locales

The following languages are supported by the navigation file:

en | en\_GB | da | de | es | it | pt | ru | sv

English - en

Spanish - es

Italian - it

German - de

Swedish - sv

Portuguese -pt

Russian - ru

Danish - da

# Navigation Data File Structure

This is a diagram showing how the Navigation Data File is structured.

In plain English:

A **ROOT** group node has one or many **EVENT\_TYPE** nodes

An **EVENT\_TYPE** node has zero, one or many **GROUP** nodes

An **EVENT\_TYPE** node has zero, one or many **EVENT** nodes

A Horse Racing **EVENT\_TYPE** node has zero, one or many **RACE** nodes

A **RACE** node has one or many **MARKET** nodes

A **GROUP** node has zero, one or many **EVENT** nodes

A **GROUP** node has zero, one or many **GROUP** nodes

An **EVENT** node has zero, one or many **MARKET** nodes

An **EVENT** node has zero, one or many **GROUP** nodes

An **EVENT** node has zero, one or many **EVENT** nodes

## JSON Model Structure

### ROOT

```
{
  "children": [
    {
      EVENT_TYPE1
    },
    {
      EVENT_TYPE2
    },
    ...
  ],
  "id": 0, // always 0
  "name": "ROOT", // always ROOT
  "type": "GROUP" // always GROUP
}
```

### EVENT\_TYPE

```
{
  "children": [
    {
      GROUP or EVENT or RACE (RACE only if Greyhounds/Horse Racing)
    },
    ...
  ],
  "id": "1", // Betfair specific eventTypeId
  "name": "Soccer",
  "type": "EVENT_TYPE"
}
```

### GROUP

```
{
  "children": [
    {
      GROUP or EVENT
    },
    ...
  ],
  "id": "74568202414", // Not a Betfair specific id, different for every GROUP
  "name": "Womens Soccer",
  "type": "GROUP"
}
```

## EVENT

```
{
  "children": [
    {
      GROUP, MARKET or EVENT
    },
    ...
  ],
  "id": "27244118", // Betfair specific eventId
  "name": "South Korea U20 (W) v Mexico U20 (W)",
  "countryCode": "GB",
  "type": "EVENT"
}
```

## RACE

```
{
  "children": [
    {
      MARKET
    },
    ...
  ],
  "id": "27247020.1115", // Betfair specific raceId
  "name": "1300m 3yo",
  "startTime": "2014-08-12T11:15:00.000Z",
  "type": "RACE",
  "venue": "Deauville",
  "raceNumber": "R1", // US specific information about race numbers
  "countryCode": "GB"
}
```

## MARKET

```
{
  "exchangeId": "1", // Betfair specific exchangeId
  "id": "1.114881860", // Betfair specific marketId
  "marketStartTime": "2014-08-14T00:00:00.000Z", // Betfair specific marketStartTime
  "marketType": "WIN", // Betfair specific marketType (e.g. PLACE, WIN, FORECAST etc.)
  "numberOfWinners": "2", // Betfair specific number of winners
  "name": "Over/Under 6.5 Goals",
  "type": "MARKET"
}
```