

# **Regional Bikes Scheme Open Data API Specifications**

## Document History

Version	Date	Author	Comments
1.0	2015-08-14	Sacchi Mestry	Initial draft
1.1	2015-08-31	Sacchi Mestry	Response Code and Rate Limit update

## **Overview**

The document contains the Regional Bikes Scheme Open Data API specifications.

The purpose of this API is to allow the third parties to access the real time Bikes Station data.

**API: Station Data**

**API URL:** <https://data.bikeshare.ie/dataapi/resources/station/data/list>

**IP Lockdown:** No

**Rate Limit:** Hourly rate limit is applied to the api e.g. 30 requests / hour

**Request Methods Allowed:** POST

**Request Format:** application/x-www-form-urlencoded

**Request Parameters:**

key	Mandatory	API key as provided
schemeld	Mandatory	Scheme ID Possible values: [-1, 2, 3, 4] -1: All schemes 2: Cork 3: Limerick 4: Galway

**Response Format:** application/json

**Response Parameters:**

responseCode	Integer	API response code If responseCode = 0 then Success else Failure
responseText	String	API response text
responseDate	DateTime mm-dd-yyyy HH:mm:ss	API response date
data	StationData	data contains the list of StationData in the format specified below.
responseHash	String	Md5 responseHash is generated for the below string. key + "." + data (jsonText)

**StationData:**

schemeld	Integer	Scheme ID Possible values: [2, 3, 4] 2: Cork 3: Limerick 4: Galway
schemeShortName	String	Scheme Name Possible values: [Cork, Limerick, Galway]
stationId	Integer	Station ID
name	String	Station Name
nameIrish	String	Station Name in Irish
docksCount	Integer	No of docks present at the Station
bikesAvailable	Integer	No of bikes available to rent
docksAvailable	Integer	No of docks available to return the bike
status	Integer	Station Status
latitude	Double	Latitude of Station
longitude	Double	Longitude of Station
dateStatus	DateTime mm-dd-yyyy HH:mm:ss	DateTime of the data

**Response Codes and Texts:**

0	Success.
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1000	Invalid Request Format.
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1017	Missing schemeld.
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1117	Invalid schemeld.
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1200	Failure.
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1201	Authentication Failure.
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1250	Data Unavailable.
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1251	Rate Limit exceeded.
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## Response Example:

### Success:

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{ "responseCode":0, "responseText":"Success.", "responseDate":"14-08-2015
15:32:45", "data":[{"schemeId":2, "schemeShortName":"Cork", "stationId":2001
, "name":"Gaol Walk", "nameIrish":"Siúlán an
Phríosúin", "docksCount":30, "bikesAvailable":3, "docksAvailable":0, "status"
:1, "latitude":51.894, "longitude":-8.494, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2002, "name"
:"Fitzgerald's Park", "nameIrish":"Páirc an
Ghearaltaigh", "docksCount":15, "bikesAvailable":4, "docksAvailable":0, "stat
us":1, "latitude":51.895, "longitude":-8.494, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2003, "name"
:"Bandfield", "nameIrish":"Páirc na
mBanna", "docksCount":30, "bikesAvailable":0, "docksAvailable":0, "status":1,
"latitude":51.896, "longitude":-8.489, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2004, "name"
:"Dyke Parade", "nameIrish":"Paráid na
Díge", "docksCount":20, "bikesAvailable":0, "docksAvailable":0, "status":1, "l
atitude":51.897, "longitude":-8.485, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2005, "name"
:"Mercy Hospital", "nameIrish":"Ospidéal na
Trócaire", "docksCount":15, "bikesAvailable":0, "docksAvailable":0, "status":
1, "latitude":51.899, "longitude":-8.483, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2006, "name"
:"St. Fin Barre's Bridge", "nameIrish":"Droichead
Fhionnbarra", "docksCount":25, "bikesAvailable":0, "docksAvailable":0, "statu
s":1, "latitude":51.897, "longitude":-8.482, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2007, "name"
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Ghríofa", "docksCount":20, "bikesAvailable":0, "docksAvailable":0, "status":1
, "latitude":51.902, "longitude":-8.477, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2008, "name"
:"North Main St.", "nameIrish":"An Phríomhshráid
Thuaidh", "docksCount":15, "bikesAvailable":0, "docksAvailable":0, "status":1
, "latitude":51.9, "longitude":-8.478, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2009, "name"
:"Grattan St.", "nameIrish":"Sráid
Grattan", "docksCount":10, "bikesAvailable":0, "docksAvailable":0, "status":1
, "latitude":51.898, "longitude":-8.48, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2010, "name"
:"Wandesford Quay", "nameIrish":"Cé
Wandesford", "docksCount":25, "bikesAvailable":0, "docksAvailable":0, "status
":1, "latitude":51.896, "longitude":-8.48, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2011, "name"
:"Bishop St.", "nameIrish":"Sráid an
Easpaig", "docksCount":15, "bikesAvailable":0, "docksAvailable":0, "status":1
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15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2012, "name"
:"Camden Quay", "nameIrish":"Cé
Camden", "docksCount":20, "bikesAvailable":0, "docksAvailable":0, "status":1,
"latitude":51.901, "longitude":-8.473, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2013, "name"
:"Corn Market St.", "nameIrish":"Sráid Mhargadh an
Arbhair", "docksCount":25, "bikesAvailable":0, "docksAvailable":0, "status":1
, "latitude":51.9, "longitude":-8.477, "dateStatus":"14-08-2015
15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2014, "name"
:"Lapp's Quay", "nameIrish":"Cé
Lapp", "docksCount":30, "bikesAvailable":0, "docksAvailable":0, "status":1, "l
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atitude":51.898,"longitude":-8.466,"dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2015,"name":  
:"St. Patricks St.,"nameIrish":"Sráid Naomh Pádraig", "docksCount":20, "bikesAvailable":0, "docksAvailable":0, "status":1  
, "latitude":51.898, "longitude":-8.472, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2016,"name":  
:"South Main St.,"nameIrish":"An Phríomhshráid Theas", "docksCount":10, "bikesAvailable":0, "docksAvailable":0, "status":1, "  
latitude":51.897, "longitude":-8.477, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2017,"name":  
:"Grand Parade", "nameIrish":"Sráid an Chapail Bhúí", "docksCount":20, "bikesAvailable":0, "docksAvailable":0, "status":1, "l  
atitude":51.898, "longitude":-8.475, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2018,"name":  
:"Peace Park", "nameIrish":"Páirc na Síochána", "docksCount":20, "bikesAvailable":0, "docksAvailable":0, "status":  
1, "latitude":51.896, "longitude":-8.474, "dateStatus":"14-08-2015  
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:"South Gate Bridge", "nameIrish":"Droichead an Gheata Theas", "docksCount":15, "bikesAvailable":0, "docksAvailable":0, "status":1, "  
latitude":51.895, "longitude":-8.476, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2020,"name":  
:"Coburg St.,"nameIrish":"Sráid Coburg", "docksCount":30, "bikesAvailable":0, "docksAvailable":0, "status":1,  
"latitude":51.902, "longitude":-8.47, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2021,"name":  
:"Emmet Place", "nameIrish":"Plás Emmet", "docksCount":20, "bikesAvailable":0, "docksAvailable":0, "status":1, "  
latitude":51.9, "longitude":-8.473, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2022,"name":  
:"South Mall", "nameIrish":"An Meal Theas", "docksCount":30, "bikesAvailable":0, "docksAvailable":0, "status":1, "  
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:"College of Commerce", "nameIrish":"Coláiste Tráchtála", "docksCount":30, "bikesAvailable":0, "docksAvailable":0, "status":  
1, "latitude":51.895, "longitude":-8.47, "dateStatus":"14-08-2015  
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:"Father Mathew Statue", "nameIrish":"Dealbh an tAthar Mhaitiú", "docksCount":15, "bikesAvailable":0, "docksAvailable":0, "status":1  
, "latitude":51.9, "longitude":-8.471, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2025,"name":  
:"Cork School of Music", "nameIrish":"Coláiste Cheoil Chorcaí", "docksCount":15, "bikesAvailable":0, "docksAvailable":0, "status":1  
, "latitude":51.896, "longitude":-8.468, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2026,"name":  
:"Brian Boru Bridge", "nameIrish":"Droichead Bhriain Bóirmhe", "docksCount":10, "bikesAvailable":0, "docksAvailable":0, "status":1  
, "latitude":51.9, "longitude":-8.465, "dateStatus":"14-08-2015  
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:"Bus Station", "nameIrish":"Stáisiún na mBus", "docksCount":20, "bikesAvailable":0, "docksAvailable":0, "status":1, "l  
atitude":51.9, "longitude":-8.467, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2029,"name":  
:"City Hall", "nameIrish":"Halla na Cathrach", "docksCount":15, "bikesAvailable":0, "docksAvailable":0, "status":  
1, "latitude":51.897, "longitude":-8.466, "dateStatus":"14-08-2015  
15:32:30"}, {"schemeId":2,"schemeShortName":"Cork","stationId":2030,"name":  
:"Lower Glanmire Rd.,"nameIrish":"Bóthar Ghleann Maghair



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Íochtarach", "docksCount":30, "bikesAvailable":0, "docksAvailable":0, "status":1, "latitude":51.901, "longitude":-8.465, "dateStatus":"14-08-2015 15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2031, "name": "Clontarf Street", "nameIrish":"Sráid Chluain Tarbh", "docksCount":10, "bikesAvailable":0, "docksAvailable":0, "status":1, "latitude":51.899, "longitude":-8.465, "dateStatus":"14-08-2015 15:32:30"}, {"schemeId":2, "schemeShortName":"Cork", "stationId":2032, "name": "Kent Station", "nameIrish":"Stáisiún Ceannt", "docksCount":30, "bikesAvailable":0, "docksAvailable":0, "status":1, "latitude":51.902, "longitude":-8.458, "dateStatus":"14-08-2015 15:32:30"}], "responseHash":"3f98add3fab6b53e7d13f0f569569141"}
```

**Failure:**

```
{"responseCode":1117, "responseText":"Invalid schemeId.", "responseData":"14-08-2015 15:33:15", "data":[], "responseHash":null}
```