





Discovery API Documentation

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Name	URL	Description
 GitHub	https://github.com/cofomo-platform/discovery	Repository of the discovery project
 API-Documentation	https://discovery.cofomo.io	Autogenerated up to date API documentation
 Swagger-UI	https://discovery.cofomo.io/swagger	Interactive test suite of the API
 API	https://discovery.cofomo.io/api	Discovery API

1. Discovery Provider API

Collection of endpoints to manage provider operations

1.1. Get all providers

1.1.1. Sample Request

```
GET /api/v1 HTTP/1.1
Host: discovery.cofomo.io
```

1.1.2. Sample Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 480
```

```
[ {
  "name" : "Carsharing Inc.",
  "url" : "https://test.carsharing.org",
  "operationAreas" : [ 72072 ],
  "serviceOffers" : [ "carsharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:53.970047",
  "id" : null
}, {
  "name" : "BikeSharing Inc.",
  "url" : "https://test.bikesharing.org",
  "operationAreas" : [ 72073 ],
  "serviceOffers" : [ "bikesharing", "escootersharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:53.970081",
  "id" : null
} ]
```

1.2. Get all active providers

Depending if endpoints of mobility provider still active

1.2.1. Sample Request

```
GET /api/v1/active HTTP/1.1
Host: discovery.cofomo.io
```

1.2.2. Sample Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 479

[ {
  "name" : "Carsharing Inc.",
  "url" : "https://test.carsharing.org",
  "operationAreas" : [ 72072 ],
  "serviceOffers" : [ "carsharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:53.993325",
  "id" : null
}, {
  "name" : "BikeSharing Inc.",
  "url" : "https://test.bikesharing.org",
  "operationAreas" : [ 72073 ],
  "serviceOffers" : [ "bikesharing", "escootersharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:53.99336",
  "id" : null
} ]
```

1.3. Add provider

1.3.1. Sample Request

```
POST /api/v1 HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: discovery.cofomo.io
Content-Length: 226

{
  "name" : "Carsharing Inc.",
  "url" : "https://test.carsharing.org",
  "operationAreas" : [ 72072 ],
  "serviceOffers" : [ "carsharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:53.889662",
  "id" : null
}
```

1.3.2. Fields of Request Body

Path	Type	Description
id	String	Autogenerated UUID of the provider
name	String	Name of the provider
url	URI	URI-endpoint of provider
operationAreas	int[]	Operation area of provider
serviceOffers	MobilityType	Services offered by provider
alive	Boolean	Service still alive?
lastHeartBeat	DateTime	Time of last heart beat

1.3.3. Sample Response

```

HTTP/1.1 201 Created
Content-Type: application/json
Content-Length: 226

{
  "name" : "Carsharing Inc.",
  "url" : "https://test.carsharing.org",
  "operationAreas" : [ 72072 ],
  "serviceOffers" : [ "carsharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:53.889662",
  "id" : null
}
```

1.4. Get provider by id

1.4.1. Sample Request

```

GET /api/v1/1 HTTP/1.1
Accept: application/json
Host: discovery.cofomo.io
```

1.4.2. Sample Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 226

{
  "name" : "Carsharing Inc.",
  "url" : "https://test.carsharing.org",
  "operationAreas" : [ 72072 ],
  "serviceOffers" : [ "carsharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:54.023247",
  "id" : null
}
```

1.4.3. Fields of Response Body

Path	Type	Description
<code>id</code>	<code>String</code>	Autogenerated UUID of the provider
<code>name</code>	<code>String</code>	Name of the provider
<code>url</code>	<code>URI</code>	URI-endpoint of provider
<code>operationAreas</code>	<code>int[]</code>	Operation area of provider
<code>serviceOffers</code>	<code>MobilityType</code>	Services offered by provider
<code>alive</code>	<code>Boolean</code>	Service still alive?
<code>lastHeartBeat</code>	<code>DateTime</code>	Time of last heart beat

1.5. Update provider

1.5.1. Sample Request

```
PUT /api/v1/1 HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: discovery.cofomo.io
Content-Length: 226

{
  "name" : "Carsharing Inc.",
  "url" : "https://test.carsharing.org",
  "operationAreas" : [ 72072 ],
  "serviceOffers" : [ "carsharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:54.081321",
  "id" : null
}
```

1.5.2. Fields of Request Body

Path	Type	Description
id	String	Autogenerated UUID of the provider
name	String	Name of the provider
url	URI	URI-endpoint of provider
operationAreas	int[]	Operation area of provider
serviceOffers	MobilityType	Services offered by provider
alive	Boolean	Service still alive?
lastHeartBeat	DateTime	Time of last heart beat

1.5.3. Sample Response

```
HTTP/1.1 202 Accepted
```

1.6. Remove provider

1.6.1. Sample Request

```
DELETE /api/v1/1 HTTP/1.1
Host: discovery.cofomo.io
```

1.6.2. Sample Response

```
HTTP/1.1 200 OK
```

2. Discovery Consumer API

Collection of endpoints to manage CRUD operations

2.1. Lookup by travel request

2.1.1. Sample Request

```
POST /api/v1/lookup/search HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: discovery.cofomo.io
Content-Length: 198

{
  "origin" : {
    "latitude" : 48.521637,
    "longitude" : 9.057645
  },
  "destination" : {
    "latitude" : 48.521637,
    "longitude" : 8.057645
  },
  "mobilityServices" : [ "carsharing" ]
}
```

2.1.2. Fields of Request Body

Path	Type	Description
origin	Location	Origin of travel
destination	Location	Destination of travel
mobilityServices	MobilityType	Requested mobility services

2.1.3. Sample Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 230
```

```
[ {
  "name" : "Carsharing Inc.",
  "url" : "https://test.carsharing.org",
  "operationAreas" : [ 72072 ],
  "serviceOffers" : [ "carsharing" ],
  "alive" : true,
  "lastHeartBeat" : "2019-12-30T16:48:52.922884",
  "id" : null
} ]
```

2.2. Lookup by location

2.2.1. Sample Request

```
GET /api/v1/lookup/operationarea/72072 HTTP/1.1
Host: discovery.cofomo.io
```

2.2.2. Sample Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 188

[{"name":"Carsharing
Inc.,"url":"https://test.carsharing.org","operationAreas":[72072],"serviceOffers":["c
arsharing"],"alive":true,"lastHeartBeat":"2019-12-30T16:48:53.164843","id":null}]
```