API Specification Owner Sphere

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# Introduction

This document provides the technical specification for the Owner Sphere API, detailing the structure, standards, and requirements necessary for integration. It is designed for use by development teams and system integrators who need to consume or integrate with the API.

The specification defines the available endpoints, request and response formats, authentication methods, error handling, and usage constraints. It also outlines best practices for implementing secure and efficient communication with the API.

All endpoints follow RESTful conventions, use JSON for request and response payloads, and require Bearer Token authentication along with an API Key in the request headers. Access to the API is restricted to authorized internal and partner systems only.

# Services

## Get Owner establishment details

### Service details

|  |  |
| --- | --- |
| **Field** | **Description** |
| API Name | Get owner establishment details |
| Method | GET |
| Endpoint URL | /owner/{nin}/establishmnets?cursor={cursor value}  &limit={listlimit}&searchKey={search key} |
| Description | Retrieve owner establishment details |
| Request Headers | Authorization: Bearer <token>  x-apikey: <apikey> |
| Query Parameters | cursor => the last identifier(this param will be used from the second fetch).  limit => the list limit.  searchKey => the search key |
| Path Parameters | nin => national id |
| Request Body | N/A |
| Response Body | 200 OK:  {  "ownerName":"string",  "identificationNumber":0,  "establishments":[  {  "establishmentName":"string",  "establishmentLocation":"string",  "startDate":{  "entryFormat":"GREGORIAN",  "gregorian":"yyyy-MM-dd'T'HH:mm:ss.SSS'Z'",  "hijiri":"yyyy-MM-dd"  },  "unn":0,  "registrationNumber":0,  "onboardingStatus":{  "arabic":"string",  "english":"string"  },  "onboardingDate":{  "entryFormat":"GREGORIAN",  "gregorian":"yyyy-MM-dd'T'HH:mm:ss.SSS'Z'",  "hijiri":"yyyy-MM-dd"  }  }  ]  }  400 Bad request:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  422 Un-processable entity:  {  "code": "string",  "details": [  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  }  }  ],  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  500 Internal server error:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  } |
| Response Codes | - 200 OK: Request succeeded - 400 Bad Request: Invalid input - 401 Unauthorized: Authentication required - 403 Forbidden: Access denied - 404 Not Found: Resource not found  - 422 Un-processable entity - 500 Internal Server Error: Unexpected server error |
| Authentication | -Bearer Token JWT, API key |
| Rate Limiting | N/A |
| Errors | N/A |
| Notes | N/A |

### Response Field Descriptions:

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| ownerName | string | the owner’s name |
| identificationNumber | number | social insurance number |
| profileImageReference | string | The profile image reference |
| establishments | object | Total penalty amount due. |
| establishments[].establishmentName | string | Amount rejected due to overhead or other criteria. |
| establishments[].establishmentLocation | string | Total due amount across all categories. |
| establishments[].startDate | date | Amount due related to violations. |
| establishments[].unn | number | Violation amount after applying initiative reductions. |
| establishments[].registrationNumber | number | The establishment registration number |

## B2B Suggested establishments

### Service details

|  |  |
| --- | --- |
| **Field** | **Description** |
| API Name | B2B Suggested establishments |
| Method | GET |
| Endpoint URL | b2b/{regNo}/suggestions |
| Description | Get Suggested establishments |
| Request Headers | Authorization: Bearer <token>  x-apikey: <apikey> Content-Type**:** application/json |
| Query Parameters | N/A |
| Path Parameters | regNo => the establishment registration number |
| Request Body | N/A |
| Response Body | 200 OK:  {  "establishments":[  {  "establishmentName":"string",  "establishmentLocation":"string",  "startDate":{  "entryFormat":"GREGORIAN",  "gregorian":"yyyy-MM-dd'T'HH:mm:ss.SSS'Z'",  "hijiri":"yyyy-MM-dd"  },  "unn":0,  "registrationNumber":0,  "suggestionReason":{  "arabic":"string",  "english":"string"  }  }  ]  }  400 Bad request:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  422 Un-processable entity  {  "code": "string",  "details": [  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  }  }  ],  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  500 Internal server error:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  } |
| Response Codes | - 200 OK: Request succeeded  - 400 Bad Request: Invalid input  - 401 Unauthorized: Authentication required  - 403 Forbidden: Access denied  - 404 Not Found: Resource not found  - 422 Un-processable entity  - 500 Internal Server Error: Unexpected server error |
| Authentication | -Bearer Token JWT, API key |
| Rate Limiting | N/A |
| Errors | N/A |
| Notes | N/A |

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| establishments | object | Total penalty amount due. |
| establishments[].establishmentName | string | Amount rejected due to overhead or other criteria. |
| establishments[].establishmentLocation | string | Total due amount across all categories. |
| establishments[].startDate | date | Amount due related to violations. |
| establishments[].unn | number | Violation amount after applying initiative reductions. |
| establishments[].registrationNumber | number | The establishment registration number |

### Response Field Descriptions:

## B2B Connect establishments

### Service details

|  |  |
| --- | --- |
| **Field** | **Description** |
| API Name | B2B Connect establishments |
| Method | POST |
| Endpoint URL | b2b/{regNo}/connections |
| Description | Get Suggested establishments |
| Request Headers | Authorization: Bearer <token>  x-apikey: <apikey> Content-Type**:** application/json |
| Query Parameters | N/A |
| Path Parameters | regNo => the establishment registration number |
| Request Body | {  "establishments":[  {  "establishmentName":"string",  "unn":0,  "registrationNumber":0  }  ]  } |
| Response Body | 200 OK:  {  "message": {  "arabic": "string",  "english": "string"  }  }  400 Bad request:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  422 Un-processable entity  {  "code": "string",  "details": [  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  }  }  ],  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  500 Internal server error:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  } |
| Response Codes | - 200 OK: Request succeeded  - 400 Bad Request: Invalid input  - 401 Unauthorized: Authentication required  - 403 Forbidden: Access denied  - 404 Not Found: Resource not found  - 422 Un-processable entity  - 500 Internal Server Error: Unexpected server error |
| Authentication | -Bearer Token JWT, API key |
| Rate Limiting | N/A |
| Errors | N/A |
| Notes | N/A |

## B2B establishments

### Service details

|  |  |
| --- | --- |
| **Field** | **Description** |
| API Name | B2B establishments |
| Method | GET |
| Endpoint URL | b2b/establishments |
| Description | Get Suggested establishments |
| Request Headers | Authorization: Bearer <token>  x-apikey: <apikey> Content-Type**:** application/json |
| Query Parameters | cursor => the cursor value  limit => the page limit  searchKey => the search key (optional)  sortBy => sort by which value (optional)  sortOrder => DECS or ASC (optional)  category => the business category (optional)  region => the establishment region (optional)  city => the establishment city (optional)  startFrom => the establishment start date from range (optional)  startTo => the establishment start date to range (optional)  size => the establishment size (optional)  complaints => complaints indicator (optional) |
| Path Parameters | N/A |
| Request Body | N/A |
| Response Body | 200 OK:  {  "message": {  "arabic": "string",  "english": "string"  }  }  400 Bad request:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  422 Un-processable entity  {  "code": "string",  "details": [  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  }  }  ],  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  500 Internal server error:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  } |
| Response Codes | - 200 OK: Request succeeded  - 400 Bad Request: Invalid input  - 401 Unauthorized: Authentication required  - 403 Forbidden: Access denied  - 404 Not Found: Resource not found  - 422 Un-processable entity  - 500 Internal Server Error: Unexpected server error |
| Authentication | -Bearer Token JWT, API key |
| Rate Limiting | N/A |
| Errors | N/A |
| Notes | N/A |

## B2B establishments interactions

### Service details

|  |  |
| --- | --- |
| **Field** | **Description** |
| API Name | B2B establishments interactions |
| Method | POST |
| Endpoint URL | b2b/{regNo}/interactions |
| Description | Get Suggested establishments |
| Request Headers | Authorization: Bearer <token>  x-apikey: <apikey> Content-Type**:** application/json |
| Query Parameters | N/A |
| Path Parameters | regNo => the establishment registration number |
| Request Body | {  "registrationNumber":0,  "type":"string"  } |
| Response Body | 200 OK:  {  "message": {  "arabic": "string",  "english": "string"  }  }  400 Bad request:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  422 Un-processable entity  {  "code": "string",  "details": [  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  }  }  ],  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  }  500 Internal server error:  {  "code": "string",  "message": {  "arabic": "string",  "english": "string"  },  "status": "string",  "timeStamp": "yyyy-MM-dd'T'hh:mm:ss.s'Z'"  } |
| Response Codes | - 200 OK: Request succeeded  - 400 Bad Request: Invalid input  - 401 Unauthorized: Authentication required  - 403 Forbidden: Access denied  - 404 Not Found: Resource not found  - 422 Un-processable entity  - 500 Internal Server Error: Unexpected server error |
| Authentication | -Bearer Token JWT, API key |
| Rate Limiting | N/A |
| Errors | N/A |
| Notes | N/A |