

Order API integration guide

Overview

This integration guide explains how to create orders using the Acme Order API. An “order” contains all the necessary information about a parcel that will enable Acme to make a successful delivery. This API is aimed at high-volume shippers.

Base URL

Ninja Van API provides two base URLs, depending on the environment.

Environment	URL
Sandbox	https://api-sandbox.acme.co
Production	https://api.acme.co

You must first integrate with the sandbox environment before we grant you access to the production environment. After you are granted access to production, change the sandbox base URL to the production base URL.

Authentication

Order API uses [OAuth 2.0](#) to authenticate client requests. This authentication method requires you to pass an OAuth Bearer Access Token with all requests. Before you

To authenticate your requests:

1. Get the **client_id** and **client_secret** values from the shipper’s dashboard in your account.
2. Submit a request to the [token endpoint](#) with client_id and client_secret to get an access token.
3. Put the access token inside the `Authorization` HTTP header as `Bearer <access_token>` and submit requests to the API.

Keep in mind that the access token has an expiration date. You may generate a new token 5 minutes before the token expires or if you receive an **HTTP 401** error when calling our API.

We require that you cache the access token. Failure to do so will result in automatic rate-limiting.

API reference

POST oauth/access_token

Returns an access token for authenticating API requests.

Resource URL

`https://api-sandbox.acme.co/1.0/oauth/access_token`

Headers

Header name	Description	Required/ optional	Value
Content-Type	The format of the request body.	required	application/json
Accept	The format of the response body.	required	application/json

Request body

Item	Type	Description	Required/ optional	Example
client_id	string	Client ID	required	SHIPPER_ABC
client_secret	string	Client secret	required	vESMp4Gyl6Z7bZlo

Example request

```
curl -X POST 'https://api.acme.co/1.0/oauth/access_token' \  
-H "Content-Type: application/json" \  
-H "Accept: application/json" \  
--data-binary "<see sample request payload>"
```

Sample request payload

```
{  
  "client_id": "SHIPPER_ABC",  
  "client_secret": "vESMp4Gyl6Z7bZlo"  
}
```

Response body

Item	Type	Description
access_token	string	OAuth Bearer Access Token to be included in the <code>Authorization</code> HTTP header.
expiry	int	Time taken for an access token to expire, in milliseconds.

Example response

```
{
  "access_token": "QfGCjsjBldgTt6Yk",
  "expiry": 1605024000000
}
```

POST /orders

Creates a new order.

Resource URL

`https://api-sandbox.acme.co/1.0/orders`

Headers

Header name	Description	Required/ optional	Value
Content-Type	The format of the request body.	required	application/json
Accept	The format of the response body.	required	application/json
Authorization	Access token for request authentication.	required	Bearer <access_token>

Request body

Item	Type	Description	Required/ optional	Example
from	object	Sender information. This data is used for the following purposes: - As the contact details for informing the sender of parcel updates. - As the address details to be printed in the waybill.	required	-

	name	string	Name of the sender. Length of string must be greater than, or equal to 3 and less than, or equal to 255.	required	John Doe
	phone_number	string	Phone number of the sender. Length of string must be greater than, or equal to 6 and less than, or equal to 32.	required	+6590000000
	email	string	Email address of the sender. Must be a valid email address format. See RFC 5322 (sections 3.2.3 and 3.4.1), RFC 5321, and a more readable form in the informational RFC 3696.	required	john.doe@gmail.com
	address	object	Address details of the sender.	required	-
	address1	string	Building number, building name, street information.	required	37 Greenwich Dr.
	address2	string	Unit number	optional	01-01
	country	string	Country	required	Singapore
	postcode	string	Postal code	required	533864
to		object	Recipient information. This data is used for the following purposes: - As the contact details for informing the recipient of parcel updates. - As the address details to be printed in the waybill.	required	-
	name	string	Name of the recipient. Length of string must be greater than, or equal to 3 and less than, or equal to 255.	required	Jane Doe
	phone_number	string	Phone number of the recipient. Length of string must be greater than, or equal to 6 and less than, or equal to 32.	required	+6590000001
	email	string	Email address of the recipient. Must be a valid email address format. See RFC 5322 (sections 3.2.3 and 3.4.1), RFC 5321, and a more	required	jane.doe@gmail.com

			readable form in the informational RFC 3696.		
	address	object	Address details of the recipient.	required	-
	address1	string	Building number, building name, street information.	required	1 Raffles Place
	address2	string	Unit number	optional	63-05
	country	string	Country	required	Singapore
	postcode	string	Postal code	required	048616
	pickup_information	object	Pickup time slot information. Valid time slots are: - "09:00" to "12:00" - "09:00" to "18:00" - "09:00" to "22:00" - "12:00" to "15:00" - "15:00" to "18:00" - "18:00" to "22:00"	required	-
	date	string	Pickup date in the "yyyy-mm-dd" format.	required	2020-01-10
	start_time	string	Start time of the pickup slot. Matches regex pattern: ^([0-1][0-9])2[0-3]:[0-5][0-9]\$	required	09:00
	end_time	string	End time of the pickup slot. Matches regex pattern: ^([0-1][0-9])2[0-3]:[0-5][0-9]\$	required	12:00
	delivery_information	object	Delivery time slot information. Valid time slots are: - "09:00" to "12:00" - "09:00" to "18:00" - "09:00" to "22:00" - "12:00" to "15:00" - "15:00" to "18:00" - "18:00" to "22:00"	required	-
	start_time	string	Start time of the delivery slot. Matches regex pattern: ^([0-1][0-9])2[0-3]:[0-5][0-9]\$	required	09:00
	end_time	string	End time of the delivery slot. Matches regex pattern: ^([0-1][0-9])2[0-3]:[0-5][0-9]\$	required	22:00

Example request

```
curl -X POST 'https://api-sandbox.acme.co/1.0/orders' \
```

```
-H "Content-Type: application/json" \  
-H "Accept: application/json" \  
-H "Authorization: Bearer QfGCjsjBldgTt6Yk" \  
--data-binary "<see sample request payload>"
```

Sample request payload

```
{  
  "from":{  
    "name":"John Doe",  
    "phone_number":"+6590000000",  
    "email":"john.doe@gmail.com",  
    "address":{  
      "address1":"37 Greenwich Dr.",  
      "address2":"01-01",  
      "country":"Singapore",  
      "postcode":"533864"  
    }  
  },  
  "to":{  
    "name":"Jane Doe",  
    "phone_number":"+6590000001",  
    "email":"jane.doe@gmail.com",  
    "address":{  
      "address1":"1 Raffles Place",  
      "address2":"63-05",  
      "country":"Singapore",  
      "postcode":"048616"  
    }  
  },  
  "pickup_information":{  
    "date":"2020-01-10",  
    "start_time":"09:00",  
    "end_time":"12:00"  
  },  
  "delivery_information":{  
    "start_time":"09:00",  
    "end_time":"22:00"  
  }  
}
```

Response body

Pending clarification from the developer.

Example response

Pending clarification from the developer.

Status codes

HTTP status code	Error code	Description
2xx	Success	Indicates a successful operation.
4xx	Client error	Fix the problem on the client side before submitting a new request.
401	Unauthorized	Submit a request to the token endpoint to generate a new access token.
5xx	Server error	Submit the same request again.