Contents

1. Prerequisites

In order to use Upela transport API, you have to :

1. Register a free account on upela.com : https://www.upela.com/en/my-account/login#register
2. Request the API activation for your account : write to contact@upela.com

2. Protocol and format

a. Protocol

Upela.com server exposes interfaces via **POST requests**.

b. Url

The API is available in production and test. The API root url is :
- In production : https://www.upela.com/api/v2/
- In test : https://dev.upela.com/api/v2/

In order to call the method « rate » in production, the url will be:
https://www.upela.com/api/v2/rate/

The list of available methods is:
- rate
- select_offer
- ship
- pickup
- cancel_pickup
- track

c. Parameters

Every POST request should contain **one parameter "request"**, containing a string in JSON format

For example, for a POST request on the url https://www.upela.com/api/v2/rate/, the "request" parameter may contain the following string :

```
{
        "account":{
                "login":"<customer login>",
```

```
            "password":"<customer password>"
        },
        "ship_from":{
                "country_code":"FR",
                "postcode":"75008",
                "city":"Paris",
                "pro":1
        },
        "ship_to":{
                "country_code":"FR",
                "postcode":"31000",
                "city":"Toulouse",
                "pro":0
        },
        "parcels":[
                {"number":2, "weight":1, "x":10, "y":10, "z":10},
                {"number":1, "weight":2, "x":10, "y":10, "z":10}
                ],
        "shipment_date":"2016-08-16",
        "unit":"fr",
        "selection":"all"
}
```

The "account" element contains the Upela customer account credentials (login and password). This element must be present in every request, in order to identify the Upela account that has to be used.

d. Response

The response is a dictionary in JSON format. It contains the following attributes :
- success : true or false
- errors : errors dictionary (may be present even if successful, but will be empty)

For example, for a rating request with 2 offers returned :

```
{
        "customer_id": "147497",
        "order_id": "1148322",
        "shipment_id": "1161877",
        "offers": [
                {
                        "carrier_code": "UPS",
                        "carrier_name": "UPS",
                        "service_code": "11",
                        "service_name": "UPS Standard®",
                        "allow_pickup": 1,
                        "allow_dropoff": 1,
                        "price_excl_tax": "48.03",
                        "currency": "EUR",
                        "vat_rate": "20",
                        "price_incl_tax": "57.64",
                        "shipment_date": "2016-08-16",
                        "delivery_date": "2016-08-17 23:30:00",
                        "delivery_to_collection_point": 0,
```

```
                              "id": "6856797"
                },
                {
                        "carrier_code": "FEDEX",
                        "carrier_name": "FedEx",
                        "service_code": "PRIORITY_OVERNIGHT",
                        "service_name": "Priority Overnight",
                        "shipment_date": "2016-08-16",
                        "delivery_date": "2016-08-17 12:00:00",
                        "price_excl_tax": "53.17",
                        "vat_rate": "20",
                        "price_incl_tax": "63.8",
                        "currency": "EUR",
                        "allow_pickup": 1,
                        "allow_dropoff": 1,
                        "delivery_to_collection_point": 0,
                        "id": "6856801"
                },
        ],
        "success": true,
        "errors": []
}
```

For a rating request with an error (wrong credentials for example), the response will be:

```
{"success":false,"errors":{"login":"Incorrect login / password"}}
```

3. Interface description

a. rate (request for transport offers)

Request done to retrieve transport offers available, with their prices and delivery dates.

Input

Champ	Obligatoire	Description
account	**Y**	**Credentials of Upela account**
account/login	Y	
account/password	Y	
ship_from	**Y**	**Origin address**
ship_from/country_code	Y	Country ISO code (2 letters) (example: FR)
ship_from/postcode	Y	
ship_from/city	Y	
ship_from/pro	N	1 if business address, 0 otherwise (0 by default)
ship_to	**Y**	**Destination address**
ship_to/country_code	Y	
ship_to/postcode	Y	
ship_to/city	Y	
ship_to/pro	Y	
type	N	Shipment type. Possible values: envelope, parcel, pallet. Default value: parcel

parcels	Y	
parcels[i]/number	Y	
parcels[i]/weight	Y	
parcels[i]/x	Y	
parcels[i]/y	Y	
parcels[i]/z	Y	
shipment_date	Y	Shipment date (in format yyyy-mm-dd)
unit	N	fr or us (fr for measures in kg / cm; us for measures in lbs / inch) (fr by default)
selection	Y	Selected offers. 4 possibilities: cheapest (only the cheapest offer), fastest (only the fastest offer), cheapest_and_fastest (the cheapest and the fastest offer), all (all offers). Default value : cheapest_and_fastest
merchant_number	N	Merchant number on the MarketPlace (external identifier, will be recorded on the Upela order and shipment)
order_number	N	Order number on the MarketPlace (external identifier, will be recorded on the Upela order and shipment)

Example:

```
{
        "account":{
                "login":"<customer login>",
                "password":"<customer password>"
        },
        "ship_from":{
                "country_code":"FR",
                "postcode":"75008",
                "city":"Paris",
                "pro":1
        },
        "ship_to":{
                "country_code":"FR",
                "postcode":"31000",
                "city":"Toulouse",
                "pro":0
        },
        "parcels":[
                {"number":2, "weight":1, "x":10, "y":10, "z":10},
                {"number":1, "weight":2, "x":10, "y":10, "z":10}
                ],
        "shipment_date":"2016-08-16",
        "unit":"fr",
        "selection":"cheapest_and_fastest"
}
```

Output

Champ	Description
customer_id	Upela account ID
order_id	Order ID
shipment_id	Shipment ID
offers	List of offers (0, 1 or 2 offers depending on the parameter "selection" in the request, and on the carriers' availability
offers[i]/id	Offer ID
offers[i]/carrier_code	Carrier code (for example "FEDEX")
offers[i]/carrier_name	Carrier name (for example "FedEx")

offers[i]/service_code	Carrier service code (for example "PRIORITY_OVERNIGHT")
offers[i]/service_name	Carrier service name (for example "Priority Overnight")
offers[i]/shipment_date	Shipment date in format yyyy-mm-dd
offers[i]/delivery_date	Expected delivery date in format yyyy-mm-dd hh:mm:ss
offers[i]/price_excl_tax	Price excl. tax
offers[i]/vat_rate	VAT in %
offers[i]/prix_ttc	Prix incl. tax
offers[i]/currency	Currency
offers[i]/allow_pickup	Pickup available (0/1)
offers[i]/allow_dropoff	Possible dropoff (at origin address) (0/1)
offers[i]/delivery_to_collection_point	Delivery to a collection point (0/1)
success	true or false
errors	Dictionary of possible errors

Example:

```
{
        "customer_id": "147497",
        "order_id": "1148322",
        "shipment_id": "1161877",
        "offers": [
                {
                        "carrier_code": "UPS",
                        "carrier_name": "UPS",
                        "service_code": "11",
                        "service_name": "UPS Standard®",
                        "allow_pickup": 1,
                        "allow_dropoff": 1,
                        "price_excl_tax": "48.03",
                        "currency": "EUR",
                        "vat_rate": "20",
                        "price_incl_tax": "57.64",
                        "shipment_date": "2016-08-16",
                        "delivery_date": "2016-08-17 23:30:00",
                        "delivery_to_collection_point": 0,
                        "id": "6856797"
                },
                {
                        "carrier_code": "FEDEX",
                        "carrier_name": "FedEx",
                        "service_code": "PRIORITY_OVERNIGHT",
                        "service_name": "Priority Overnight",
                        "shipment_date": "2016-08-16",
                        "delivery_date": "2016-08-17 12:00:00",
                        "price_excl_tax": "53.17",
                        "vat_rate": "20",
                        "price_incl_tax": "63.8",
                        "currency": "EUR",
                        "allow_pickup": 1,
                        "allow_dropoff": 1,
                        "delivery_to_collection_point": 0,
                        "id": "6856801"
                },
        ],
        "success": true,
        "errors": []
}
```

b. select_offer (choice of a transport offer)

Request done to select a Upela transport offer.

Input

Champ	Obligatoire	Description
account	Y	Credentials of Upela account
account/login	Y	
account/password	Y	
shipment_id	Y	Shipment ID
offer_id	Y	Offer ID selected

Example:

```
{"account":{"login":"...","password":"..."},"shipment_id":22452,"offer_id":96660}
```

Output

Champ	Description
customer_id	Upela account ID
success	true or false
errors	Dictionary of possible errors

Example:

```
{"customer_id": 147497,"success":true,"errors":[]}
```

c. ship (waybill generation)

Request done to generate the shipping waybill.

Input

Champ	Obligatoire	Description
account	**Y**	Credentials of Upela account
account/login	Y	
account/password	Y	
shipment_id	**Y**	Shipment ID
ship_from	**Y**	Origin address
ship_from/company	Y	Company or name
ship_from/name	Y	Contact name
ship_from/phone	Y	
ship_from/email	Y	
ship_from/address1	Y	Address line 1
ship_from/address2	N	Address line 2
ship_from/address3	N	Address line 3
ship_from/country_code	Y	Country ISO code (2 letters) (example: FR)
ship_from/postcode	Y	
ship_from/city	Y	
ship_from/pro	N	1 if business address, 0 otherwise (0 by default)
ship_to	**Y**	Destination address

ship_to/company	Y	Company or name
ship_to/name	Y	Contact name
ship_to/phone	Y	
ship_to/email	N	
ship_to/address1	Y	Address line 1
ship_to/address2	N	Address line 2
ship_to/address3	N	Address line 3
ship_to/country_code	Y	
ship_to/postcode	Y	
ship_to/city	Y	
ship_to/pro	Y	
dropoff_to	**N**	Delivery address at pickup point
dropoff_to/company	Y	Company or name
dropoff_to/name	Y	Contact name
dropoff_to/phone	Y	
dropoff_to/email	N	
dropoff_to/address1	Y	Address line 1
dropoff_to/address2	N	Address line 2
dropoff_to/address3	N	Address line 3
dropoff_to/country_code	Y	
dropoff_to/postcode	Y	
dropoff_to/city	Y	
dropoff_to/pro	Y	
dropoff_to/dropoff_location_id	Y	Identifier of the pickup point
reason	**Y**	Shipment reason
content	**Y**	Shipment content
insurance	**N**	Declared value for insurance (in euro). If the value is > 0, the shipment will be insured for this value.
label_format	**N**	Label format : PDF or ZPL (PDF by default)

Example:

```
{
        "account":{
                "login":"<customer login>",
                "password":"<customer password>"
        },
        "shipment_id":22408,
        "ship_from":{
                "company":"My company",
                "name":"Prénom Nom",
                "phone":"0101010101",
                "email":"xxxxx@xxxxx.com",
                "address1":"1 rue ...",
                "address2":"...",
                "address3":"...",
                "country_code":"FR",
                "postcode":"75001",
                "city":"Paris",
                "pro":1
        },
        "ship_to":{
                "company":"...",
                "name":"Prénom Nom",
                "phone":"0101010101",
                "email":"xxxxx@xxxxx.com",
```

```
            "address1":"1 rue ...",
            "country_code":"FR",
            "postcode":"31000",
            "city":"Toulouse",
            "pro":0
    },
    "reason": "raison...",
    "content": "contenu...",
    "label_format": "PDF"
}
```

Output

Champ	Description
customer_id	Upela account ID
shipment_id	Shipment ID
order_id	Order ID
carrier_code	Carrier code (for example "FEDEX")
carrier_name	Carrier name (for example "FedEx")
waybill	Waybill information
waybill/code	Upela waybill code
waybill/url	Waybill pdf url
tracking_number	Shipment tracking number
success	true or false
errors	Dictionary of possible errors

Example:

```
{
    "customer_id": "147497",
    "shipment_id": 1161876,
    "order_id": "1148321",
    "carrier_code": "UPS",
    "carrier_name": "UPS",
    "waybill": {
            "code": "116187671784",
            "url": "https://www.upela.com/waybills/116187671784.PDF"
    },
    "tracking_number": "1Z0476AR6898437858",
    "success": true,
    "errors": []
}
```

d. pickup (pickup request)

Input

Champ	Obligatoire	Description
account	Y	Credentials of Upela account
account/login	Y	
account/password	Y	
shipment_id	Y	Shipment ID

ship_from	Y	Origin address
ship_from/company	Y	Company or name
ship_from/name	Y	Contact name
ship_from/phone	Y	
ship_from/email	Y	
ship_from/address1	Y	Address line 1
ship_from/address2	N	Address line 2
ship_from/address3	N	Address line 3
ship_from/country_code	Y	Country ISO code (2 letters) (example: FR)
ship_from/postcode	Y	
ship_from/city	Y	
ship_from/pro	N	1 if business address, 0 otherwise (0 by default)
parcels	Y	
parcels[i]/number	Y	
parcels[i]/weight	Y	
parcels[i]/x	Y	
parcels[i]/y	Y	
parcels[i]/z	Y	
unit	N	fr or us (fr for measures in kg / cm; us for measures in lbs / inch) (fr by default)
shipment_date	Y	Shipment date (in format yyyy-mm-dd)
ready_time	Y	Pickup ready time requested (in format HHM)
close_time	Y	Pickup closing time requested (in format HHM)

Example:

```
{
        "account":{
                "login":"<customer login>",
                "password":"<customer password>"
        },
        "shipment_id":22408,
        "ship_from":{
                "company":"My company",
                "name":"Prénom Nom",
                "phone":"0101010101",
                "email":"xxxxx@xxxxx.com",
                "address1":"1 rue ...",
                "address2":"...",
                "address3":"...",
                "country_code":"FR",
                "postcode":"75001",
                "city":"Paris",
                "pro":1
        },
        "parcels":[
                {"number":2, "weight":1, "x":10, "y":10, "z":10},
                {"number":1, "weight":2, "x":10, "y":10, "z":10}
                ],
        "unit":"fr",
        "shipment_date":"2016-08-16",
        "ready_time":"1100",
        "close_time":"1800"
}
```

Output

Champ	Description
customer_id	Upela account ID
shipment_id	Shipment ID
carrier_code	Carrier code (for example "FEDEX")
carrier_name	Carrier name (for example "FedEx")
reservation_number	Pickup reservation number
success	true or false
errors	Dictionary of possible errors

Example:

```
{
        "customer_id": "147497",
        "shipment_id": 1161876,
        "carrier_code": "UPS",
        "carrier_name": "UPS",
        "reservation_number": "2929602E9CP",
        "success": true,
        "errors": []
}
```

e. cancel_pickup (cancellation of a pickup request)

Request done to cancel a previous pickup request.

Input

Champ	Obligatoire	Description
account	Y	Credentials of Upela account
account/login	Y	
account/password	Y	
shipment_id	Y	Shipment ID

Example:

```
{
        "account":{
                "login":"<customer login>",
                "password":"<customer password>"
        },
        "shipment_id":22408
}
```

Output

Champ	Description
customer_id	Upela account ID
shipment_id	Shipment ID
carrier_code	Carrier code (for example "FEDEX")
carrier_name	Carrier name (for example "FedEx")
reservation_number	Old pickup reservation number
success	true or false

errors	Dictionary of possible errors

Example:

```
{
        "customer_id": "147497",
        "shipment_id": 1161876,
        "carrier_code": "UPS",
        "carrier_name": "UPS",
        "reservation_number": "2929602E9CP",
        "success": true,
        "errors": []
}
```

f. track (shipment tracking)

Request done to track a shipment.

Input

Champ	Obligatoire	Description
account	Y	Credentials of Upela account
account/login	Y	
account/password	Y	
shipment_id	Y	Shipment ID

Example:

```
{
        "account":{
                "login":"<customer login>",
                "password":"<customer password>"
        },
        "shipment_id":22408
}
```

Output

Champ	Description
customer_id	Upela account ID
shipment_id	Shipment ID
events	
events[i]/date	Event date (in format yyyy-mm-dd hh:mm:ss)
events[i]/location	Event location
events[i]/code	Event code
events[i]/description	Event description
success	true or false
errors	Dictionary of possible errors

Example:

```
{
        "customer_id": "147497",
        "shipment_id": 1291140,
```

```
        "events": [
                {
                        "date": "2016-08-11 17:23:00",
                        "location": "24340 VIEUX MAREUIL (France)",
                        "code": "KB",
                        "description": "Delivered"
                },
…

                {
                        "date": "2016-08-09 09:53:00",
                        "location": "  (France)",
                        "code": "MP",
                        "description": "Order Processed: Ready for UPS"
                }
        ],
        "success": true,
        "errors": []
}
```