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**Requirements: Shipping Price Calculations**

Each delivery service has its own endpoint.

A request to the delivery service URL returns the following parameters:

**"name"**: Service name

**"isItPossibleToDeliver"**: Possibility of delivery (true/false)

**"hostDeliveryCost"**: Shipping price for us

**"toBeDeliveredTime":** Delivery time range

**"clientDeliveryCost"**: Shipping price for the client

name — always the same when the same delivery service is addressed. Values are taken from the

parameters table in the requirements.

toBeDeliveredTime — the time range when the service will make the delivery. This is always the same when the same delivery service is addressed. The value is returned with a minimum and maximum time. You can view those values in the “Fulfilment time” column from the table below.

In the request itself, deliveryTime is the time when the user expects their delivery, in hours.

isItPossibleToDeliver — true when the time in deliveryTime is within the range of the delivery service's working hours, and false when it's not.

hostDeliveryCost — the price of internal delivery is calculated according to the table below. In all other cases, hostDeliveryCost will be equal to 7 .

The application will take the request, process it according to the table below, and send a response.

| Name | Operating  Hours | No of products in the order  (pcs) | Order weight | Fulfilment time | Shipping  price($) | Data format |
| --- | --- | --- | --- | --- | --- | --- |
| Speedy | 08-22 | 1-10 | 0-3 kg | 30-35 minutes | 4 | JSON |
| Speedy | 08-22 | 11-15 | 3.1-7 kg | 30-35 minutes | 7 | JSON |
| Fast Delivery | 07-21 | 1-7 | 0-2.5 kg | 25-30 minutes | 3 | XML |
| Fast Delivery | 07-21 | 8-14 | 2.6-6 kg | 25-30 minutes | 6 | XML |
| Food Service | 06-20 | 1-12 | 0-3.5 kg | 25-30 minutes | 5 | SOAP |
| Food Service | 06-20 | 13-20 | 3.6-9 kg | 25-30 minutes | 7 | SOAP |

Requirements: Shipping Price Calculations 1

| Name | Operating  Hours | No of products in the order  (pcs) | Order weight | Fulfilment time | Shipping  price($) | Data format |
| --- | --- | --- | --- | --- | --- | --- |
| Order and Go | 08-22 | 1-9 | 0-3 kg | 20-25 minutes | 3 | JSON |
| Order and Go | 08-22 | 10-15 | 3.1-6 kg | 20-25 minutes | 5 | JSON |

The cost is calculated using the variables passed in productsCount (number of products in the order) and productsWeight (order weight).

Let’s take the "Speedy" delivery service as an example:

IF productsCount is less than or equal to 10 pcs.

AND productsWeight is less than or equal to 3 kg

THEN hostDeliveryCost will be equal to 4 .

clientDeliveryCost — the shipping price for the client is calculated according to the table.

The cost is calculated using the variables passed in productsCount (number of products in the order) and productsWeight (order weight).

Shipping price for the client can be equal to 0 and 9.

Then the shipping price will be 9 if at least one of the following conditions is met:

The maximum number of products is exceeded.

The maximum weight is exceeded.

Please refer to the hostDeliveryCost table above to see the limits for weight and quantity. Anything that is above the value listed in the table exceeds the maximum limit.

For example, for the "Speedy" delivery service:

IF productsWeight is greater than 7 kg (maximum value in the table)

OR productsCount is greater than 15 pcs. (maximum value in the table)

THEN clientDeliveryCost will be equal to 9 .

In all other cases, clientDeliveryCost will be equal to 0 .

The "Order price less than $7" condition applies to the product order endpoint, not the delivery service endpoint.

Requirements: Shipping Price Calculations 2