

# Cargoflux Company v1 API

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## Authentication

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The Cargoflux API requires the user to authenticate each request with an API access token. This token can be generated under the 'API Access' tab once logged into Cargoflux.

### Token in URL parameter

The token can be included as a URL parameter by setting the `access_token` parameter.

### Token in HTTP header

Another way to provide the token is via a HTTP header by setting the `Access-Token` header.

### Token in JSON body

As part of the JSON body (for non-GET requests) you can also provide the token by setting the `access_token` key in the root JSON-element.

## Base URI

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Environment	Base URI
production	<code>https://api.cargoflux.com</code>

## API endpoints

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*Note:*

C: conditional, some carriers may require this field or it may depend on another field.

### Get Shipment

- `GET /api/v1/companies/shipments/:shipment_id` returns detailed shipment data.

Example response

```
{
  "id": "3-1-1163",
  "state": "booked",
  "awb": "1ZA1R6477353",
  "awb_link": "https://cargoflux.s3.amazonaws.com/assets/000/001/040/f561f892-e",
  "shipping_date": "2016-05-16",
  "description": "some description",
  "reference": "some customer ref",
  "remarks": "",
  "carrier_product": "UPS Express",
  "dutiabale": false,
  "cost_price_amount": "379.2048",
  "cost_price_currency": "DKK",
  "sales_price_amount": "417.12528",
  "sales_price_currency": "DKK",
  "price_lines": [
    {
      "line_description": "Shipment charge",
      "line_cost_price": "23.0",
      "line_sales_price": "23.0",
      "line_quantity": 1
    },
    {
      "line_description": "Fuel charge",
      "line_cost_price": "2.07",
      "line_sales_price": "2.07",
      "line_quantity": 1
    }
  ],
  "package_dimensions": [
    {
      "height": 10,
      "length": 10,
      "width": 10,
      "weight": 5,
      "volume_weight": 0.2,
      "amount": 2,
      "goods_identifier": "CLL"
    },
    {
      "height": 2,
      "length": 5,
      "width": 2,
      "weight": 2,
      "volume_weight": 0.004,
      "amount": 1,
      "goods_identifier": "CLL"
    }
  ],
}
```

```
"sender": {
  "company_name": "some company",
  "address_line1": "some street",
  "address_line2": "",
  "address_line3": "",
  "city": "Copenhagen",
  "zip_code": "2300",
  "country_name": "Denmark",
  "country_code": "dk",
  "phone_number": "33333333",
  "email": "example@gmail.com",
  "attention": "Jack ads"
},
"recipient": {
  "company_name": "Some other company",
  "address_line1": "some other street",
  "address_line2": "",
  "address_line3": "",
  "city": "Berlin",
  "zip_code": "23001",
  "country_name": "Germany",
  "country_code": "de",
  "phone_number": "44444444",
  "email": "otherexample@gmail.com",
  "attention": "Georg asdae"
}
}
```

## List Shipments

- `GET /api/v1/companies/shipments.xml` retrieves a paginated list of shipments.

### Query parameters

Req?	Field	Type	Description
	page	String	Page offset to fetch shipments from (default 1)

### Example

```
https://api.cargoflux.com/api/v1/companies/shipments.xml?page=2
```

### Response

Field	Description
CustomerID	CargoFlux id of the customer who booked the shipment
CustomerExternalAccountingNumber	External accounting number of the customer who booked the shipment
ShipmentId	CargoFlux shipment id
State	CargoFlux shipment state
ShippingDate	Date of shipping (format: YYYY-MM-DD )
CustomsAmount	Customs amount
CustomsCurrency	Customs currency
Description	Description of shipment
AWB	AWB Number
NumberOfPackages	Number of packages sent with the shipment
TotalWeight	Total weight of the shipment (kg)
TotalVolumeWeight	Total volume weight of the shipment
CustomerReference	Customer reference field
Remarks	Customer remarks
DeliveryInstructions	delivery instructions
VATIncluded	The shipment includes VAT ( true or false )
Carrier	The carrier the shipment was booked through
CarrierProduct	Name of the product the shipment was booked with
CarrierProductCode	Product code of the product the shipment was booked with

Field	Description
CarrierProductDetails/VolumeWeightType	Possible values: <code>volume_weight</code> , <code>loading_meter</code>
CarrierProductDetails/Basis	Possible values: <code>weight</code> , <code>distance</code>
ParcelshopId	The ID of the parcelshop if specified when booked

A pricing element is included if a price has been specified for the shipment. Returns the total cost and sales price for the shipment

Field	Description
Pricing/CostPriceAmount	Original cost of shipment
Pricing/SalesPriceAmount	The sales price of the shipment
Pricing/CostPriceCurrency	Currency of original price
Pricing/SalesPriceCurrency	Currency of sales price

A pricing items element is included if a price has been specified for the shipment. Returns the individual pricing items

Field	Description
PriceLines/PriceLine/LineDescription	Description of price item
PriceLines/PriceLine/LineCostPrice	The cost price of the price item
PriceLines/PriceLine/LineSalesPrice	The sales price of the price item
PriceLines/PriceLine/LineQuantity	How many times the price item is applied in the total calculation

The Sender and Recipient both conform to the format specified below

Field	Description
Sender/CompanyName	Name of company
Sender/AddressLine1	

Field	Description
Sender/AddressLine2	
Sender/AddressLine3	
Sender/City	
Sender/ZipCode	
Sender/StateCode	State code if country has different states
Sender/CountryName	
Sender/CountryCode	
Sender/Phone	Contact phone number
Sender/Email	Contact email
Sender/Attention	Name of contact person

Structure of PackageList is as described below

Field	Description
PackageList/Package/Length	Length of package (cm)
PackageList/Package/Width	Width of package (cm)
PackageList/Package/Height	Height of package (cm)
PackageList/Package/Weight	Weight of package (kg)
PackageList/Package/VolumeWeight	Volumeweight of package
PackageList/Package/Quantity	Number of packages sent with specified dimensions
PackageList/Package/GoodsIdentifier	Identifies type/unit of package (possible values: CLL , PLL , HPL , QPL )

Example

```
<ShipmentList>
  <Shipment>
    <CustomerID>3</CustomerID>
```

```
<CustomerExternalAccountingNumber>xxxxx</CustomerExternalAccountingNumber>
<ShipmentId>3-1-1439</ShipmentId>
<State>booked</State>
<ShippingDate>2015-10-21</ShippingDate>
<TotalWeight>10.0</TotalWeight>
<TotalVolumeWeight>0.25</TotalVolumeWeight>
<CustomsAmount>10.0</CustomsAmount>
<CustomsCurrency>DKK</CustomsCurrency>
<Description>some shipment description</Description>
<AWB>Y09M9D</AWB>
<NumberOfPackages>2</NumberOfPackages>
<CustomerReference>Some customer reference</CustomerReference>
<Remarks>some customer supplied remarks</Remarks>
<DeliveryInstructions>delivery instructions</DeliveryInstructions>
<VATIncluded>true</VATIncluded>
<Carrier>UPS</Carrier>
<CarrierProduct>UPS Standard</CarrierProduct>
<Pricing>
  <CostPriceAmount>147.15</CostPriceAmount>
  <SalesPriceAmount>161.86</SalesPriceAmount>
  <CostPriceCurrency>DKK</CostPriceCurrency>
  <SalesPriceCurrency>DKK</SalesPriceCurrency>
</Pricing>
<PriceLines>
  <PriceLine>
    <LineDescription>Shipment charge</LineDescription>
    <LineCostPrice>23.0</LineCostPrice>
    <LineSalesPrice>23.0</LineSalesPrice>
    <LineQuantity>1</LineQuantity>
  </PriceLine>
  <PriceLine>
    <LineDescription>Fuel charge</LineDescription>
    <LineCostPrice>2.07</LineCostPrice>
    <LineSalesPrice>2.07</LineSalesPrice>
    <LineQuantity>1</LineQuantity>
  </PriceLine>
</PriceLines>
<Sender>
  <CompanyName>SomeCompanyNmae</CompanyName>
  <AddressLine1>Gothersgade 813</AddressLine1>
  <AddressLine2/>
  <AddressLine3/>
  <City>København</City>
  <ZipCode>1123</ZipCode>
  <CountryName>Denmark</CountryName>
  <CountryCode>dk</CountryCode>
  <Phone/>
  <Email>example@example.com</Email>
  <Attention>Karlmar</Attention>
</Sender>
```

```

<Recipient>
  <CompanyName>OnlineShop</CompanyName>
  <AddressLine1>Kongens Nytorv 242</AddressLine1>
  <AddressLine2/>
  <AddressLine3/>
  <City>København K</City>
  <ZipCode>1050</ZipCode>
  <CountryName>Denmark</CountryName>
  <CountryCode>dk</CountryCode>
  <Phone/>
  <Email/>
  <Attention>Mads</Attention>
</Recipient>
<PackageList>
  <Package>
    <Length>10</Length>
    <Width>10</Width>
    <Height>10</Height>
    <Weight>5.0</Weight>
    <VolumeWeight>0</VolumeWeight>
    <Quantity>1</Quantity>
    <GoodsIdentifier>CLL</GoodsIdentifier>
  </Package>
  <Package>
    <Length>10</Length>
    <Width>10</Width>
    <Height>10</Height>
    <Weight>5.0</Weight>
    <VolumeWeight>0</VolumeWeight>
    <Quantity>2</Quantity>
    <GoodsIdentifier>CLL</GoodsIdentifier>
  </Package>
</PackageList>
</Shipment>
<!-- ... -->
</ShipmentList>

```

## Export Shipments

- `POST /api/v1/companies/shipment_exports.xml` retrieves a list of all shipments scheduled for export.

Calling this endpoint will label any shipment returned as `exported`. An exported shipment will no longer appear in subsequent responses, unless its data has changed since the initial export. If an exported shipment's data has changed, it will appear under the `UpdatedShipments` node in the next response.



In the CargoFlux admin interface under 'Export Settings', you can control which shipment state changes will schedule a shipment for export.

For example, you may create a setup in which a shipment will be scheduled for export as soon as its state changes to `booked` . This allows companies using third-party systems to maintain an always up-to-date list of shipments.

## Response

Field	Description
NewShipments	A list of shipments scheduled for export
UpdatedShipments	A list of shipments that has changed since their initial export.
Shipment	Same schema as in <code>List Shipments</code>

## Example Response

```
<ShipmentList>
  <NewShipments>
    <Shipment><!-- ... --></Shipment>
    <Shipment><!-- ... --></Shipment>
    <!-- ... -->
  </NewShipments>
  <UpdatedShipments>
    <Shipment><!-- ... --></Shipment>
    <Shipment><!-- ... --></Shipment>
    <!-- ... -->
  </UpdatedShipments>
</ShipmentList>
```

## Export Shipments Archive

- `GET /api/v1/companies/shipment_exports.xml?since=:timestamp` returns previous shipment exports.

The response will consist of a series of `<ShipmentList></ShipmentList>` , similar to what is returned by `POST /api/v1/companies/shipment_exports.xml` .

At most 50 previous exports will be returned - you can retrieve more by making a new request with an updated `since` query-parameter.

## Example request

```
GET /api/v1/companies/shipment_exports.xml?since=2017-02-01+10%3A00%3A00+%2B010
```

## Example response

```
<ShipmentLists>
  <ShipmentList timestamp="2017-02-02 09:00:00 UTC">
    <NewShipments>
      <Shipment><!-- ... --></Shipment>
      <Shipment><!-- ... --></Shipment>
      <!-- ... -->
    </NewShipments>
    <UpdatedShipments>
      <Shipment><!-- ... --></Shipment>
      <Shipment><!-- ... --></Shipment>
      <!-- ... -->
    </UpdatedShipments>
  </ShipmentList>

  <ShipmentList timestamp="2017-02-03 09:00:00 UTC">
    <NewShipments>
      <Shipment><!-- ... --></Shipment>
      <Shipment><!-- ... --></Shipment>
      <!-- ... -->
    </NewShipments>
    <UpdatedShipments>
      <Shipment><!-- ... --></Shipment>
      <Shipment><!-- ... --></Shipment>
      <!-- ... -->
    </UpdatedShipments>
  </ShipmentList>

  <!-- ... -->
</ShipmentLists>
```

## Update Shipments

- `POST /api/v1/companies/shipment_updates` updates shipments.

### Request parameters

- `updates` - Array of updates. Max # of updates is 100.
  - `shipment_id` - **(required)** ID of shipment in the format `1-1-1`.
  - `state_change` - *(optional)* Set this object when you need to change the state of a shipment.

- `new_state` - Set this to change the shipment to a new state. This field is **required** when you need to change the state.  
  
Allowed values are `booked`, `in_transit`, `delivered_at_destination`, `problem`, `cancelled`
  - `comment` - An optional, supplementary comment related to the state change.
  - `awb` - Sets the shipment AWB. This is only considered when `new_state` is set to `booked`.
- `upload_label_from_url` - (*optional*) Upload label to CargoFlux from the given URL. This should preferably be a PDF.
  - `upload_invoice_from_url` - (*optional*) Upload invoice to CargoFlux from the given URL.
  - `upload_consignment_note_from_url` - (*optional*) Upload consignment note to CargoFlux from the given URL.

#### Example JSON request

```
{
  "updates": [
    {
      "shipment_id": "1-1-1",
      "state_change": {
        "new_state": "booked",
        "comment": "",
        "awb": "XXX"
      },
      "upload_label_from_url": "https://www.example.com/label.pdf"
    },
    {
      "shipment_id": "1-1-2",
      "state_change": {
        "new_state": "in_transit",
        "comment": "Picked up by Bob the Driver"
      }
    },
    {
      "shipment_id": "1-1-3",
      "state_change": {
        "new_state": "problem",
        "comment": "Booking error: recipient zip code is invalid"
      }
    }
  ]
}
```

```
    "shipment_id": "1-1-4",
    "upload_invoice_from_url": "https://www.example.com/invoice.pdf"
  }
]
```

## Response

This endpoint will return **200 OK** with the following JSON response *if* the request is properly structured.

Example JSON response - **200 OK**

```
{
  "shipments": [
    {
      "shipment_id": "1-1-1",
      "awb": "XXX",
      "state": "booked"
    },
    {
      "shipment_id": "1-1-2",
      "awb": "YYY",
      "state": "in_transit"
    },
    {
      "shipment_id": "1-1-3",
      "awb": null,
      "state": "problem"
    },
    {
      "shipment_id": "1-1-4",
      "awb": "ZZZ",
      "state": "booked"
    }
  ]
}
```

Example JSON response - **400 Bad Request**

If max number of updates is exceeded:

```
{ "error" : "max number of updates (100) was exceeded (actual # of updates: 101"
```