UBIDOCS API

Streamlining Waste Transport Management

26/07/2023

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Introduction

The **ubiDOCS API** serves as a comprehensive solution for managing Transport Documents within the Waste Business in Belgium. It is designed in compliance with the Waste Workflow prescribed by OVAM (Openbare Vlaamse Afvalstoffenmaatschappij).

With this API, you can create, sign, and manage your Transport Documents efficiently while complying with local regulations.

<div align="center">

open LOCAL REGULATIONS

</div>
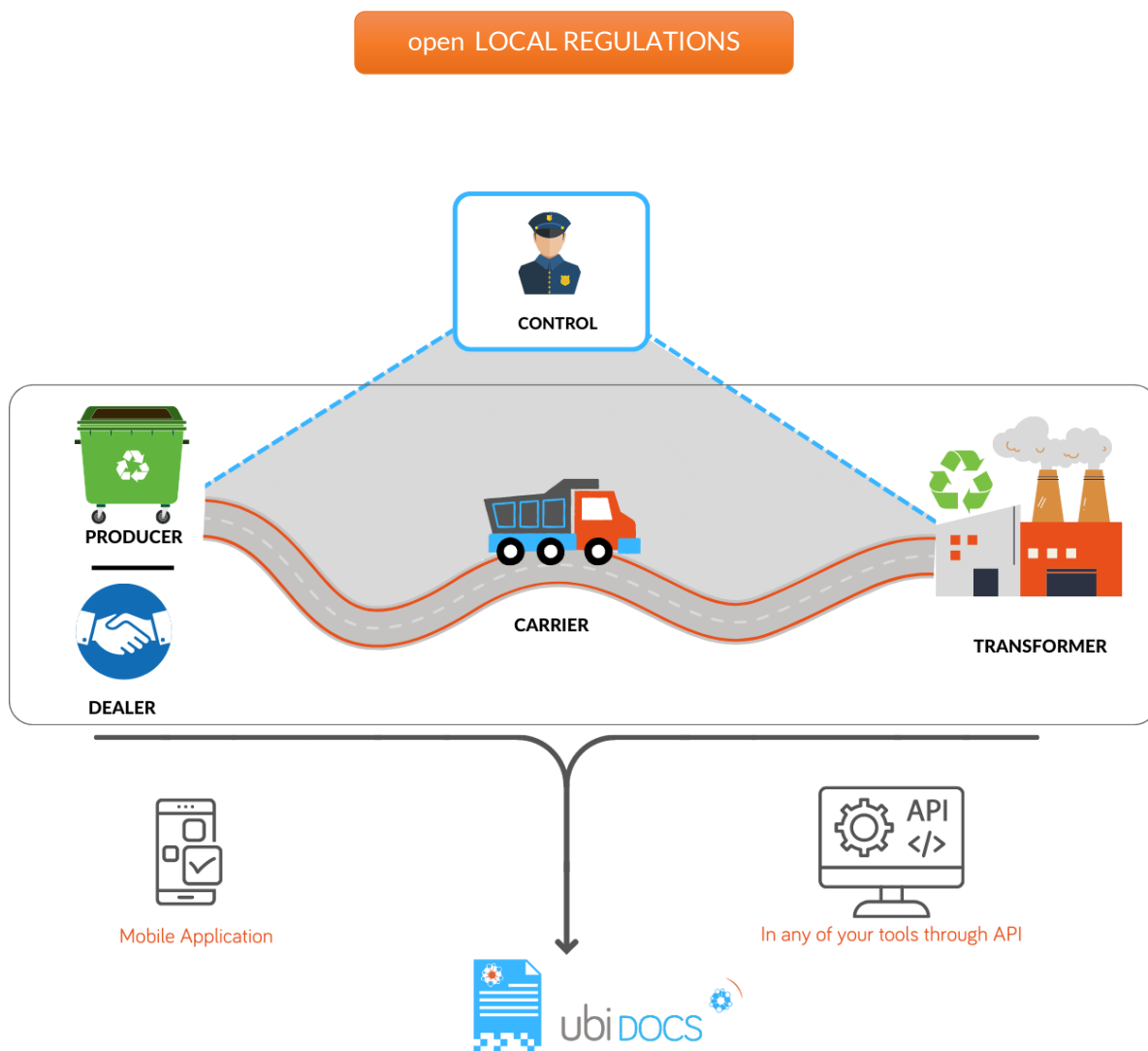
Please read carefully the prerequisites to understand the basic functionalities:

<div align="center">

open PREREQUISITES

</div>

API Swagger Documentation:

For an initial understanding and exploration of the API's functionalities, access our API documentation at this URL: https://api.ubidocs.ubidata.com/swagger.

<div style="text-align:center">

open SWAGGER

</div>

API Test Environment:

When it comes to practical usage and testing, we have you covered. We will provide you with a distinct URL for your personal Test Environment Swagger. Paired with your unique, secret API key, this will allow you to securely navigate and utilize the full potential of the API in your dedicated testing environment.

API Access Procedure:

Access to the API is regulated through unique API keys assigned to each organization.

To receive your API key, kindly contact Ubidata support (support@ubidata.com) with your organization details such as

- VAT number,
- identification details,
- and physical address.

Our dedicated support team is committed to assisting you with account setup and ensuring a smooth integration process.

Understanding the Waste Document

Content of the Document

Here is an example of a document object:

```
DocumentResponse ⌄ {
    documentType                              DocumentTypeEnum   string
                                              Enum:
                                                  > Array [ 2 ]
    documentState                             DocumentStateEnum   string
                                              Enum:
                                                  > Array [ 10 ]
    consigneeWasteProcessingInformation  WasteProcessingInformationProxyDto > {...}
    transportDate                             string($date-time)
    documentId                                string
                                              nullable: true
    legalReferences                              > [...]
    creationUser                          UserProxyDto > {...}
    pickup                                AppointmentResponse > {...}
    delivery                              AppointmentResponse > {...}
    creationTimestamp                         string($date-time)
    driver                                UserProxyDto > {...}
    goods                                        > [...]
    signatures                                   > [...]
    submitter                             OrganizationResponse > {...}
    dealer                                OrganizationResponse > {...}
    consignor                             OrganizationResponse > {...}
    consignee                             OrganizationResponse > {...}
    carrier                               OrganizationResponse > {...}
    comments                                     > [...]
    references                                   > [...]
    customFields                                 > [...]
}
```

documentType

This field indicates the document type, which can be: ECMR or EWASTE. The document type selected determines the specific format and details of the document.

documentState

This field shows the current status of the document.

Possible values include:

- DRAFT
- ISSUED
- READY
- IN_TRANSIT
- DELIVERED
- COMPLETED
- CORRECTED
- CANCELLED
- DELETED
- INTERRUPTED

Each status has specific implications.

For a comprehensive understanding of each status and its effects, visit our documentation :

open DOCUMENT STATUSSES

Document GUID:

The Document GUId is a unique identifier given to each document within the system, enabling you to carry out various operations for that specific document.

Legal Id:

Once a document is issued, Ubidata generates a unique Legal Id, serving as OVAM's legal reference for the document. This identifier enables you to carry out operations related to the document.

References:

The References field allows customers to assign custom values serving as references to the transportation process.

These reference values can be used by different stakeholders and can be used to search for documents.

| GET	`/v1/documents/reference/{reference}` Get a list of documents by customer reference.	⌄ 🔒
GET	`/v1/documents/reference/{reference}/id` Get a list of document ids by customer reference.	⌄ 🔒
GET	`/v1/documents/reference/{reference}/summary` Get a list of document summaries by customer reference.	⌄ 🔒

Custom Fields:

These are dynamic data elements that stakeholders can define and set. Each custom field comprises a "key" and a corresponding "value," facilitating the inclusion of specific information required by one or more stakeholders.

```
CustomFieldResponse ∨ {
    key                    string
                           nullable: true
    value                  string
                           nullable: true
    creationTimestamp      string($date-time)
}
```
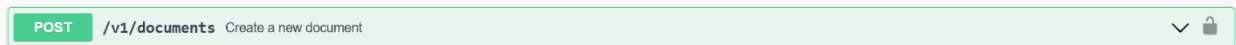
Document Flow

Below, we explain a normal flow for a document, with the document status transitioning through the statuses mentioned above:
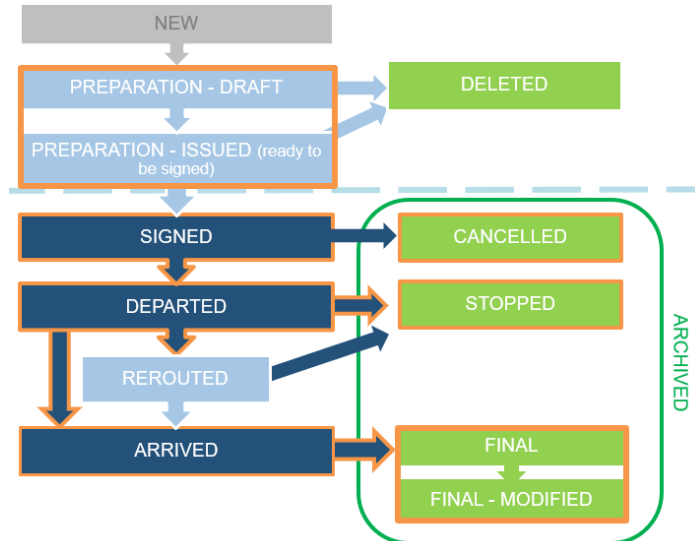

Document Creation

Before creating a new document, make sure you have necessary prerequisites like organization details and driver user IDs.

To create a document, send a DocumentRequest object to the API endpoint.

Refer to Appendix 1 for a JSON document request example.

Upon successful creation, the API response will include a unique Document ID for future actions.
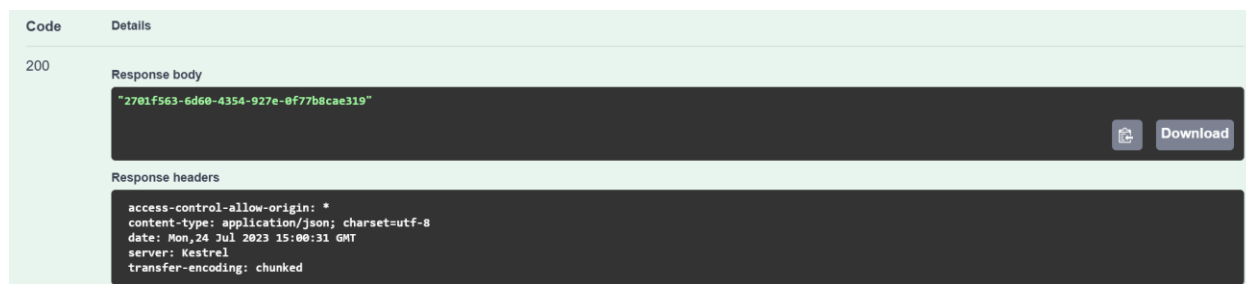
Document Issue

To issue the document, make an API call with the relevant Document ID. The issue step generates a Legal Id associated with the Document ID for future operations.

On successful issuance, call the Get Documents API to validate the generated Legal Id.

Look for the generated Legal ID: **UBI_NjM4MjU4MDgzMjg2MTY3NTE9** in the document content, which will be part of the JSON response.

```json
{
  "documentId": "2701f563-6d60-4354-927e-0f77b8cae319",
  "legalReferences": [
    {
      "type": "UBIDATA",
      "creationUser": {
        "userId": "6e8d6e95-6f97-4da9-a1c8-3d72f3c3dadb",
        "firstName": "Ubidata",
        "lastName": "Ubidata",
        "email": "info@ubidata.com",
        "phone": null,
        "organizationInfo": {
          "referenceId": "e9c27523-0795-4595-9293-76bcc020ed90",
          "identificationNumber": "0862.404.234",
          "organizationType": "COMPANY",
          "vat": "BE0862.404.234",
          "name": "UBIDATA"
        }
      },
      "creationTimestamp": "2023-07-24T15:12:097",
      "reference": "UBI_NjM4MjU4MDgzMjg2MTY3NTE5"
    }
  ],
  "creationUser": {
    "userId": "6e8d6e95-6f97-4da9-a1c8-3d72f3c3dadb",
    "firstName": "Ubidata",
    "lastName": "Ubidata",
    "email": "info@ubidata.com",
    "phone": null,
```

Transport Approval

Approving the transport electronically signs the document with the API key-associated person's name. This signature appears on the PDF document.

You can optionally provide approval coordinates and creation timestamp, particularly useful for offline approval scenarios. Successful approval adds a new signature to the document.

```
"signatures": [
  {
    "creationUser": {
      "userId": "6e8d6e95-6f97-4da9-a1c8-3d72f3c3dadb",
      "firstName": "Ubidata",
      "lastName": "Ubidata",
      "email": "info@ubidata.com",
      "phone": null,
      "organizationInfo": {
        "referenceId": "e9c27523-0795-4595-9293-76bcc020ed90",
        "identificationNumber": "0862.404.234",
        "organizationType": "COMPANY",
        "vat": "BE0862.404.234",
        "name": "UBIDATA"
      }
    },
    ...
```

```
    },
    ...
]
```

Goods Pickup

This action marks the Waste Producer's pickup confirmation, represented by an official signature from the waste producer.

The signature object includes the first name, last name, and an SVG string of the signature. For more details on signature types and different cases, please refer to the signature section below:

```
{
  "latitude": 90,
  "longitude": 180,
  "creationTimestamp": "2023-07-24T15:47:08.630Z",
  "signeeType": "DRIVER",
  "firstName": "FN",
  "lastName": "LN",
  "signValue": " <svg height=\"210\" width=\"500\"><line x1=\"0\" y1=\"0\" x2=\"200\" y2=\"200\"
style=\"stroke:rgb(255,0,0);stroke-width:2\" /></svg> "
}
```

The signature, along with previous ones, will appear in the document.

```
"signatures": [
  ...
  {
    "creationUser": {
    },
    "organization": {
    },
    "type": "SIGNATURE_FOR_PICKED_UP_STATE",
    "signeeType": "DRIVER",
    "firstName": "FN",
    "lastName": "LN",
    "signValue": " <svg height=\"210\" width=\"500\"><line x1=\"0\" y1=\"0\" x2=\"200\" y2=\"200\"
style=\"stroke:rgb(255,0,0);stroke-width:2\" /></svg> ",
    "latitude": 90,
    "longitude": 180,
    "creationTimestamp": "2023-07-24T15:47:09Z"
  },
  ...
]
```

Start of Transport

This action signals the beginning of transport, with a signature from the driver with the start location coordinates. The document state changes to "In Transit."

Goods Delivery

This step marks the Waste Processor's delivery confirmation, represented by an official signature from a Waste Processor's employee. After this step, the document is flagged as "Delivered."

PUT `/v1/documents/{id}/deliver_goods` Deliver goods of a document by Legal ID or Document ID

Deliver goods of a document by Legal ID, once the driver has delivered the goods to the Waste Processor, the Transport may END.

Parameters

Cancel   Reset

Name	Description
id * required string *(path)*	2701f563-6d60-4354-927e-0f77b8cae319

Request body   application/json

```
{
    "latitude": 90,
    "longitude": 180,
    "creationTimestamp": "2023-07-24T17:19:31.160Z",
    "signeeType": "DRIVER",
    "firstName": "FirstName",
    "lastName": "LastName",
    "signValue": " <svg height=\"210\" width=\"500\"><line x1=\"100\" y1=\"100\" x2=\"200\" y2=\"200\" style=\"stroke:rgb(255,255,0);stroke-width:2\" /></svg>"
}
```

Execute   Clear

End of Transport

This step signifies the transport's end, including the location and timestamp where the transport concluded.

All these steps will be reflected under signatures in the document as depicted in Appendix 2.

Document Completion

Once a document is delivered, it can be completed automatically or manually.

If the document is not completed within 24 hours of delivery, the system will auto-complete the document, marking the transport process as officially completed.

Document Correction

After completion, if there is a need for amendments, the document can be modified. Such modifications will set the document to the "Corrected" state. Relevant stakeholders will be promptly notified about these changes.

Modify a document after creation

You can update a document using a single global API that accepts the revised version of the document.

| PUT | /v1/documents/{id}/change_document_info Change information of a document by Legal ID or Document ID | ⌄ 🔒 |

However, the following fields cannot be modified:

- Document GUID
- Legal Id
- Signatures
- Document State
- Document Type

Document Deletion

A document can be deleted outright before issuance.

Once a Document has been issued, it cannot be deleted anymore. Instead, depending on its status, a document can be cancelled or interrupted. Once issued, the document enters a non-deletable state, but its status can still be altered depending on the transport phase.

If Transport hasn't started, you can cancel the document.

| DELETE | /v1/documents/{id}/cancel Cancel a document by Legal ID or Document ID. | ⌄ 🔒 |

If Transport has started but hasn't ended, you can interrupt the document, signifying an unexpected halt or pause in the process.

| DELETE | /v1/documents/{id}/interrupt Interrupts the transport of a document by its Legal ID or Document ID. | ⌄ 🔒 |

When Transport has ended, the document can't be neither cancelled nor interrupted. It has to be completed.

More about Signatures

```
SignatureResponse  {
    latitude              number($double)
                          maximum: 90
                          minimum: -90
                          nullable: true
    longitude             number($double)
                          maximum: 180
                          minimum: -180
                          nullable: true
    creationTimestamp     string($date-time)
    signeeType            SigneeTypeEnum   string
                          Enum:
                           [ DRIVER, ACTOR, DRIVER_ON_BEHALF ]
    firstName             string
                          nullable: true
    lastName              string
                          nullable: true
    signValue             string
                          nullable: true
    type                  SignatureTypeEnum   string
                          Enum:
                           [ SIGNATURE_FOR_READY_STATE, SIGNATURE_FOR_DELIVERED_STATE, SIGNATURE_FOR_START_TRANSPORT, SIGNATURE_FOR_END_TRANSPORT, SIGNATURE_FOR_PICKED_UP_STATE ]
    creationUser          UserProxyDto  {...}
    organization          OrganizationResponse  {...}
}
```

The Signature object encapsulates vital information, providing an extensive overview of each signature event.

The key fields contained within this object include:

- **organization:** Carries crucial information about the organization requesting the signature.

- **type:** Denotes the specific action prompting the signature request. Possible types include:
    - **SIGNATURE_FOR_READY_STATE**
    - **SIGNATURE_FOR_PICKED_UP_STATE**
    - **SIGNATURE_FOR_START_TRANSPORT**
    - **SIGNATURE_FOR_DELIVERED_STATE**
    - **SIGNATURE_FOR_END_TRANSPORT**

- **signeeType:** This field identifies the individual who performed the signature, with possible values being:
    - **DRIVER**: This indicates that the signature request was initiated by the driver. Two scenarios exist:
        - The driver signs themselves, leaving the FirstName, LastName, and SignValue fields empty.
        - The driver requests a signature from an actor representative using the driver app, resulting in populated FirstName, LastName, and SignValue fields.
    - **ACTOR**: This signifies that the signature was directly performed by an actor, such as during transport approval.
    - **DRIVER_ON_BEHALF**: This implies that the driver signed on behalf of an actor representative when the representative was unavailable, leaving the FirstName, LastName, and SignValue fields empty.

- **firstName:** Contains the first name of the actor representative performing the signature.

- **lastName:** Contains the last name of the actor representative performing the signature.

- **coordinates:** These are represented by Latitude and Longitude double values. When provided, they indicate the location of the signature, a detail OVAM requires in certain cases.

- **signValue:** Represents the SVG string of the signature itself (when provided).

- **creationUser:** Contains the user information of the individual whose API key was used to initiate the signature.

- **creationTimestamp:** This field records the timestamp of the signature event. Set by the API caller, it allows offline support, thereby ensuring flexibility in signature generation by enabling offline creation and later submission to the API.

Appendices:

Appendix 1 - Document

New document request JSON example:

```json
{
  "documentType": "EWASTE",
  "references": [
    {
      "type": "OTHER",
      "reference": " custom ref 1",
      "creationTimestamp": "2023-05-19T00:00:00+00:00"
    },
    {
      "type": "OTHER",
      "reference": " custom ref 2 ",
      "creationTimestamp": "2023-05-19T00:00:00+00:00"
    }
  ],
  "documentState": "DRAFT",
  "transportDate": "2022-07-01T00:00:00+02:00",
  "comments": [
    {
      "text": "source 1 A\r\n\tsource 1 B\r\n\tsource 2\r\n\tsource 3\r\n\t",
      "category": "OTHER_USEFUL_PARTICULARS",
      "creationTimestamp": "2023-05-19T00:00:00+00:00"
    }
  ],
  "pickup": {
    "location": {
      "name": "Pickup Place Name",
      "street": "Pickup Street",
      "houseNumber": "87",
      "box": "12A",
      "city": "8400",
      "postalCode": "OOSTENDE",
      "country": "BE",
      "latitude": 51.221633,
      "longitude": 29.49223,
      "contactName": "Patric H",
      "contactTel": "0477/12.34.56",
      "contactFax": "016/12.34.56",
      "contactEmail": "patrich@test.com",
      "openingTimeSlotDtos": [
        { "weekday": "MONDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "MONDAY", "from": "13:00", "to": "17:30" },
        { "weekday": "TUESDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "TUESDAY", "from": "13:00", "to": "17:30" },
        { "weekday": "WEDNESDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "WEDNESDAY", "from": "13:00", "to": "17:30" }
      ]
    },
    "plannedArrival": "2022-07-01T08:00:00+00:00"
  },
  "delivery": {
    "location": {
      "name": "Delivery Loc",
      "street": "Oudestraat",
      "houseNumber": "19",
      "box": "",
      "city": "1500",
```

```
        "postalCode": "HALLE",
        "country": "BE",
        "latitude": 50.000633,
        "longitude": 28.49223,
        "contactName": "Patric H",
        "contactTel": "0477/12.34.56",
        "contactFax": "016/12.34.56",
        "contactEmail": "patrich@test.com",
        "openingTimeSlotDtos": [
          { "weekday": "MONDAY", "from": "08:30", "to": "12:00" },
          { "weekday": "MONDAY", "from": "13:00", "to": "17:30" },
          { "weekday": "TUESDAY", "from": "08:30", "to": "12:00" },
          { "weekday": "TUESDAY", "from": "13:00", "to": "17:30" },
          { "weekday": "WEDNESDAY", "from": "08:30", "to": "12:00" },
          { "weekday": "WEDNESDAY", "from": "13:00", "to": "17:30" }
        ]
      },
      "plannedArrival": "2022-07-01T16:00:00+00:00"
    },
    "goods": [
      {
        "barcode": "978-012345678",
        "label": "label xxxx1234",
        "description": "paper",
        "quantityCount": 3,
        "quantityUnit": "PARCEL",
        "packingMethod": "1 pallet with some description",
        "customerId": "12345678-9123AEFD",
        "wasteInformation": {
          "euralCode": "02 01 10",
          "dangerousWasteInformation": {
            "unNumber": "1307",
            "physicalProperties": "Xylenes",
            "chemicalComposition": "Xylenes",
            "creationTimestamp": "2023-05-19T00:00:00+00:00"
          },
          "creationTimestamp": "2023-05-19T00:00:00+00:00"
        },
        "measureDtoIn": [
          { "type": "LENGTH", "value": 12, "unit": "KG" },
          { "type": "WEIGHT", "value": 12, "unit": "KG" },
          { "type": "VOLUME", "value": 3, "unit": "M3" }
        ]
      }
    ],
    "submitter": {
      "name": "Submitter Transport",
      "identificationNumber": "BE-0123456789",
      "vat": "0123456789",
      "location": {
        "name": "Submitter Transport",
        "street": "Sub street",
        "houseNumber": "106",
        "box": "10",
        "city": "3370",
        "postalCode": "BOUTERSEM",
        "country": "BE",
        "latitude": 50.012581,
        "longitude": 48.01237,
        "contactName": "Patric H",
        "contactTel": "0477/12.34.56",
        "contactFax": "016/12.34.56",
        "contactEmail": "patrich@test.com",
        "openingTimeSlotDtos": [
          { "weekday": "MONDAY", "from": "08:30", "to": "12:00" },
```

```json
      { "weekday": "MONDAY", "from": "13:00", "to": "17:30" },
      { "weekday": "TUESDAY", "from": "08:30", "to": "12:00" },
      { "weekday": "TUESDAY", "from": "13:00", "to": "17:30" },
      { "weekday": "WEDNESDAY", "from": "08:30", "to": "12:00" },
      { "weekday": "WEDNESDAY", "from": "13:00", "to": "17:30" }
    ]
  }
},
"dealer": {
  "name": "Dealer Transport",
  "identificationNumber": "BE-1234567890",
  "vat": "1234567890",
  "location": {
    "name": "Dealer Transport",
    "street": "Dealer street",
    "houseNumber": "42",
    "box": "23/B",
    "city": "6040",
    "postalCode": "JUMET (CHARLEROI)",
    "country": "BE",
    "latitude": 50.017159,
    "longitude": 44.1234,
    "contactName": "Patric H",
    "contactTel": "0477/12.34.56",
    "contactFax": "016/12.34.56",
    "contactEmail": "patrich@test.com",
    "openingTimeSlotDtos": [
      { "weekday": "MONDAY", "from": "08:30", "to": "12:00" },
      { "weekday": "MONDAY", "from": "13:00", "to": "17:30" },
      { "weekday": "TUESDAY", "from": "08:30", "to": "12:00" },
      { "weekday": "TUESDAY", "from": "13:00", "to": "17:30" },
      { "weekday": "WEDNESDAY", "from": "08:30", "to": "12:00" },
      { "weekday": "WEDNESDAY", "from": "13:00", "to": "17:30" }
    ]
  }
},
"consignor": {
  "name": "Consignor Org",
  "identificationNumber": "BE-2345678901",
  "vat": "2345678901",
  "location": {
    "name": "Consignor Loc.",
    "street": "Consignor Str",
    "houseNumber": "87",
    "box": "12A",
    "city": "8400",
    "postalCode": "OOSTENDE",
    "country": "BE",
    "latitude": 51.221633,
    "longitude": 29.49223,
    "contactName": "Patric H",
    "contactTel": "0477/12.34.56",
    "contactFax": "016/12.34.56",
    "contactEmail": "patrich@test.com",
    "openingTimeSlotDtos": [
      { "weekday": "MONDAY", "from": "08:30", "to": "12:00" },
      { "weekday": "MONDAY", "from": "13:00", "to": "17:30" },
      { "weekday": "TUESDAY", "from": "08:30", "to": "12:00" },
      { "weekday": "TUESDAY", "from": "13:00", "to": "17:30" },
      { "weekday": "WEDNESDAY", "from": "08:30", "to": "12:00" },
      { "weekday": "WEDNESDAY", "from": "13:00", "to": "17:30" }
    ]
  }
},
"consignee": {
```

```
    "name": "Consignee Org",
    "identificationNumber": "BE-3456789012",
    "vat": "3456789012",
    "location": {
      "name": "Consignee Loc",
      "street": "Consignee Str.",
      "houseNumber": "158-162",
      "box": "",
      "city": "1190",
      "postalCode": "VORST",
      "country": "BE",
      "latitude": 50.819098,
      "longitude": 43.20668,
      "contactName": "Patric H",
      "contactTel": "0477/12.34.56",
      "contactFax": "016/87.54.32",
      "contactEmail": "patrich@test.com",
      "openingTimeSlotDtos": [
        { "weekday": "MONDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "MONDAY", "from": "13:00", "to": "17:30" },
        { "weekday": "TUESDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "TUESDAY", "from": "13:00", "to": "17:30" },
        { "weekday": "WEDNESDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "WEDNESDAY", "from": "13:00", "to": "17:30" }
      ]
    }
  },
  "carrier": {
    "name": "Carrier Org",
    "identificationNumber": "BE-4567890123",
    "vat": "4567890123",
    "location": {
      "name": "Carrier Loc",
      "street": "carrier str",
      "houseNumber": "14",
      "box": "",
      "city": "8700",
      "postalCode": "TIELT",
      "country": "BE",
      "latitude": 50.112785,
      "longitude": 36.00286,
      "contactName": " Patric H",
      "contactTel": "0477/12.34.56",
      "contactFax": "016/67.89.00",
      "contactEmail": "patrich@test.com",
      "openingTimeSlotDtos": [
        { "weekday": "MONDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "MONDAY", "from": "13:00", "to": "17:30" },
        { "weekday": "TUESDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "TUESDAY", "from": "13:00", "to": "17:30" },
        { "weekday": "WEDNESDAY", "from": "08:30", "to": "12:00" },
        { "weekday": "WEDNESDAY", "from": "13:00", "to": "17:30" }
      ]
    }
  }
}
```

Appendix 2 – Signatures

```json
"signatures": [
  {
    "creationUser": {
    },
    "organization": {
    },
    "type": "SIGNATURE_FOR_READY_STATE",
    "signeeType": "ACTOR",
    "firstName": "Ubidata",
    "lastName": "Ubidata",
    "signValue": null,
    "latitude": 90,
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  },
  {
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    "organization": {
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  },
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    "organization": {
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    "lastName": "Last Name",
    "signValue": " <svg height=\"210\" width=\"500\"><line x1=\"200\" y1=\"200\" x2=\"0\" y2=\"0\"
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    "organization": {
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    "firstName": "FirstName",
    "lastName": "LastName",
    "signValue": " <svg height=\"210\" width=\"500\"><line x1=\"100\" y1=\"100\" x2=\"200\" y2=\"200\"
style=\"stroke:rgb(255,255,0);stroke-width:2\" /></svg>",
    "latitude": 90,
    "longitude": 180,
    "creationTimestamp": "2023-07-24T17:19:31Z"
  },
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        "organization": {
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        "lastName": "LastName",
        "signValue": " <svg height=\"210\" width=\"500\"><line x1=\"50\" y1=\"500\" x2=\"150\" y2=\"150\"
style=\"stroke:rgb(255,255,255);stroke-width:2\" /></svg> ",
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]
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