🧭 ubiDOCS Domain Driven API Migration Guide

Moving from v1/v2 to v3

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📌 Overview

This guide summarizes the key improvements introduced in **ubiDOCS Domain Driven (DD) API v3** and outlines the steps required to migrate from v1 and v2.

⚠️ **v1 and v2 will remain supported for 3 more months.** They will be fully deprecated at the end of September 2025 in order to fully support OVAM IOP (Interoperability Platform). UBIDATA Team is ready to help you migrate efficiently and safely.

🧱 1. Key Differences at a Glance

Version 3 marks a major evolution toward a fully **Domain-Driven API** for managing Transport Documents at Ubidata.

• Asynchronous Operations

All operations, including creation and updates of Documents, are now asynchronous. Users receive the results of these operations through a reliable webhook system.

• Targeted Update Endpoints

The previous multipurpose `change_document_info` endpoint has been replaced with dedicated endpoints, including:

- `/documents/{id}/transport_date`
- `/documents/{id}/submitter`
- `/documents/{id}/dealer`
- `/documents/{id}/consignor`
- `/documents/{id}/carrier`
- `/documents/{id}/consignee`
- `/documents/{id}/references`
- `/documents/{id}/pickup`
- `/documents/{id}/delivery`

This makes the API more predictable, maintainable, and easier to validate.

• Extended Document Lifecycle with New States

The Document lifecycle now includes two additional states to better reflect real-world transport activity:

- **PICKED_UP**: The Waste has been picked up, but the Driver is not yet on the road.
- **IN_TRANSIT**: The Driver is on the road.
- **DELIVERED**: The Waste has been delivered, but the Driver hasn't formally ended the Transport.

- **TRANSPORT_ENDED**: The Driver has formally ended the Transport.

These new states provide finer-grained traceability, especially in asynchronous and semi-offline workflows.

Notes:

- In the current ubiDOCS Mobile app, DELIVERED and TRANSPORT_ENDED are recorded simultaneously within the same Driver action.
- Once a Transport has been both DELIVERED and ENDED, the Document will get auto-completed after the AUTO-COMPLETION DELAY.

• KBO/BCE/CBE Data Integration

The API now integrates with the **Crossroads Bank for Enterprises (KBO/BCE/CBE)** to:

- Simplify Document creation for Belgian companies
- Prevent issues related to duplicate Enterprises or Establishment Units

A new `/organizations` endpoint allows you to search for Organizations by name, VAT number, Enterprise number, or Establishment Unit number. You can also filter by postal code.

The search returns both:

- Belgian Organizations registered with the BCE
- Foreign Organizations already used in your existing Documents (These Foreign Organizations are not shared with other users of the ubiDOCS platform.)

• Support for Custom Fields

You can now add custom fields to your Transport Documents. ⚠️ Please contact us before using this feature. We'll guide you through a safe way to avoid naming collisions and ensure compatibility.

• Mandatory Timestamps

All actions on a Document now require a `timestamp` provided as a query parameter. This improves consistency, traceability, and system auditing.

It also enables actions to be performed offline by Drivers, allowing for better resilience in the field.

• Move of Waste Processing Information to Goods Items

Previously, Waste Processing Information (R&D codes and Processing Techniques) was defined at the Document level under OVAM legislation. In v3, these fields have been moved to the Goods Item level, allowing:

- Multiple R&D codes per Waste Item, as required by OVAM's most recent changes
- One field for additional information about the Processing Technique

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🔑 2. Authentication Changes

No changes to the authentication mechanism. You can continue to access the API using the same credentials as for v1 and v2.

🧩 3. Recommended Header: `x-app-info`

We strongly recommend that all API users include the `x-app-info` header when making requests to the ubiDOCS DD API.

This header should contain the name and version of your application or integration, such as:

```
x-app-info: ubiDOCS/1.15.1 (Build 900000654; ios iOS 18.4.1)
```

Including this header allows us to:

- Quickly identify your integration in our logs
- Improve support and troubleshooting by correlating requests with specific apps or environments
- Proactively communicate with you in case of errors, regressions, or behavioral changes

⚠️ Omitting this header may make it more difficult for our team to support you effectively in case of incidents or questions.

📄 4. Webhook Mechanism

The ubiDOCS DD API v3 uses a webhook mechanism to notify you of the result of each action.

1. Call an endpoint on the API, including the required `timestamp` query parameter

2. The endpoint immediately responds with either:

   - `202 Accepted` (request queued)
   - `400 Bad Request` (invalid request)

3. If accepted, the response includes a `webhookId`

4. You can check the status of your request using: `GET /webhook/{id}/status` This is a long-polling endpoint—the server holds the connection open until an update is available or a timeout occurs.

Example `WebhookStatusResponse` schema:

```json
{
  "webhookId": "string",
  "httpStatusCode": 202,
  "documentId": "uuid",
  "requestUrl": "string",
  "responseBody": "string",
  "createdAt": "2025-05-12T08:00:00Z"
}
```

📄 5. Timestamp Consolidation

In v1/v2, timestamps were inconsistently used—sometimes in query parameters, sometimes in the payload, and sometimes optional.

In v3, timestamps are **mandatory** and must always be **passed as query parameters**. They are no longer included in the payload. This enables support for offline operations by Drivers while maintaining data integrity and traceability.

📄 6. Document Creation

In v3, Documents are always created in `DRAFT` status. The initial payload can only include the following fields:

- Transport date
- Custom reference
- Actors: Submitter, Dealer, Consignor, Carrier, and Consignee
- Pickup address
- Delivery address
- Goods (Waste)

All other elements must be added through dedicated endpoints after creation.

To create a Document in `ISSUED` or `SIGNED_FOR_READY` state, you must:

1. Create the Document
2. Wait for its `guid` using the webhook mechanism
3. Call `/documents/{guid}/issue` and `/documents/{guid}/approve_transport`

🧍 7. Removal of the Multipurpose Endpoint `change_document_info`

The `change_document_info` endpoint has been fully deprecated in v3. It has been replaced by specialized endpoints that:

- Simplify the update process
- Reduce the risk of conflicts when multiple actors interact with the same Document

Replacement Endpoints

7.1 Transport Date

- `PUT /documents/{id}/transport_date`

7.2 Custom References

- `POST /documents/{id}/references`
- `DELETE /documents/{id}/references/{referenceId}`

7.3 Actors

- `PUT /documents/{id}/submitter`
- `PUT /documents/{id}/dealer`
- `PUT /documents/{id}/consignor`
- `PUT /documents/{id}/carrier`
- `PUT /documents/{id}/consignee`

7.4 Pickup & Delivery Addresses

- `PUT /documents/{id}/pickup`

- `PUT /documents/{id}/delivery`

📍 8. KBO/BCE/CBE Data Integration (Deep Dive)

With the updates released during Q1 2025 and this new ubiDOCS DD API v3, Belgian Organizations are now properly managed within Ubidata. Organization names and addresses are retrieved directly from the BCE.

When assigning a Belgian Organization as an actor, providing the VAT number and either the Enterprise number or the Establishment Unit number is sufficient—there is no need to provide the address manually.

For Foreign Organizations, you must provide the address the first time you use them in a Document. After that, providing the VAT number alone is enough.

The `/organizations` search endpoint allows you to look up Organizations by:

- Name (substring match)

- VAT number (exact match)

- Identification number (Enterprise or Establishment Unit number)

🔄 9. Extended Document Lifecycle States

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ubiDOCS DD API v3 introduces a **more granular Document lifecycle**, with two new states that provide better visibility into transport events.

🆕 New States Added

- `PICKED_UP` — *New*

- `TRANSPORT_ENDED` — *New*

Full List of States

- `DRAFT`

- `ISSUED`

- `READY`

- `PICKED_UP` 🆕

- `IN_TRANSIT`

- `DELIVERED`

- `TRANSPORT_ENDED` 🆕

- `COMPLETED`

- `CORRECTED`

- `CANCELLED`

- `DELETED`

- `INTERRUPTED`

Why This Matters

These additional states help **capture critical transport milestones**:

- `PICKED_UP` : Waste has been picked up, but the Driver hasn't yet departed.
- `TRANSPORT_ENDED` : Waste has been delivered, but the transport session hasn't been formally ended.

These distinctions support **more accurate tracking**, particularly in asynchronous or offline environments.

⚠️ **Notes:**

- In v1 and v2, `PICKED_UP` is converted to `READY`
- In v1 and v2, `TRANSPORT_ENDED` is converted to `DELIVERED`
- In the current version of **ubiDOCS Mobile**, delivery and transport end are recorded together

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📦 10. Migration Strategy

Use this checklist to guide your transition from v1/v2 to v3 of the ubiDOCS DD API.

✅ Migration Checklist

- ☐ **Review the v3 Migration Guide and API Specs**
- ☐ **Audit Current v1/v2 Usage**
- ☐ **Set Up Access to the v3 Sandbox**
- ☐ **Add `x-app-info` to All API Calls**
- ☐ **Implement Webhook Handling (** ⚠️ MANDATORY for Document creation**)**
- ☐ **Replace `change_document_info` with the new endpoints**
- ☐ **Clean Up Timestamps in Payloads**
- ☐ **Update Document Creation Flow**
- ☐ **Update Your Handling of Document States**
- ☐ **Validate the End-to-End Flow**
- ☐ **Deploy to Production**
- ☐ **Monitor Logs and Webhooks**
- ☐ **Share Feedback With Ubidata**

📘 Additional Resources

To support your migration, we recommend reviewing the following materials:

- **ubiDOCS DD API v3 OpenAPI Specification** [Swagger in STAGING](https://api-staging.ubidocs.ubidata.com/swagger/index.html)

- **This v3 Migration Guide** [Migration guide on the Knowledge Center](https://kc.ubidata.com/en/ubidocs-2/ubidocs-api/)

- **ubiDOCS Knowledge Center** [ubiDOCS for Waste Transport](https://kc.ubidata.com/en/ubidocs-2/)

- **Postman Collection (v3)** TBD

❓ FAQs

Let us know if you have other questions. Here are a few common ones:

- **Can I still retrieve v1/v2 Documents in v3?** Yes, all your Documents remain available in v3.

- **What happens if I omit a timestamp?** Timestamps are MANDATORY. The API will reject your request with a `400 Bad Request`.

- **What is the behavior of** `/webhook/{id}/status` **on failure?** Currently, failing requests are discarded. We actively monitor such failures to: **1** Identify and fix bugs in ubiDOCS **2** Make the API more robust **3** Help you troubleshoot your integration

- **Can I use custom fields for all actor types?** Custom fields are flexible, but we ask you to contact us before using them so we can prevent naming collisions with other integrations or OVAM IOP providers.

- **How do I transition historical Documents to v3?** This is handled by Ubidata. You do not need to migrate existing Documents manually.

📣 Final Notes

Thank you for taking the time to review this migration guide.

As a user of the ubiDOCS DD API, **your feedback is extremely valuable to us**. We're continuously improving the platform and would love to hear more about:

- Your experience with the migration
- Any pain points or blockers you encounter
- Features or tools that could better support your business workflows
- Suggestions to improve the API or developer experience

Whether you're building a new integration or upgrading an existing one, our goal is to make your job easier and your solutions more powerful.

We're here to help—please don't hesitate to reach out with questions, ideas, or feedback.