Update Delivery (Webhook)

1. Overview

The Update Delivery API is a **webhook** that pushes real-time delivery status updates from the Kamion system to a customer's designated endpoint. When the status of a consignment or an individual item changes (e.g., from "Picked Up" to "In Transit"), Kamion will send an HTTP POST request with the relevant details to your registered URL.

This allows you to keep your systems synchronised with the lifecycle of a shipment without the need for constant polling.

Key Logic:

- **Consignment-Level Update:** If the barcodeNumber field in the request is null or an empty string, the update applies to the entire consignment.
- **Item-Level Update:** If the barcodeNumber is provided, the update applies specifically to that single item within the consignment.
- **Status Progression:** Delivery statuses follow a strict forward progression. A status will not regress to a previous state (e.g., from "Delivered" back to "In Transit").

2. Verifying the Webhook

To ensure the security of the data you receive, Kamion authenticates each request using HTTP Basic Authentication. You must provide us with a username and password during webhook configuration. Kamion will include these credentials in the Authorization header of every request we send.

Your endpoint must validate these credentials to confirm that the request originated from Kamion.

Header	Description
Authorization	Required. Credentials sent using either API keys or Basic authentication scheme. Formatted as Basic Base64(username:password).

We strongly recommend configuring your firewall to only accept requests from Kamion's designated IP addresses, which will be provided during onboarding.

3. Endpoint

This is a webhook, so the request is sent **from Kamion to your server**. You must provide us with a secure HTTPS endpoint that can accept POST requests.

> ℹ️ **Example Endpoint URL:** https://your-api.your-domain.com/webhooks/delivery-updates

4. Data Model (Request from Kamion)

The body of the POST request will be a **JSON array** of Status Update Objects.

Request Body:

Status Update fields

Field	Type	Required	Description
consignmentnumber	string	Yes	The consignment number this update pertains to.
labelnumber	string	No	The specific item barcode/label number.
accountnumber	string	No	The charge account associated with the consignment.
customercode	string	No	Your internal customer code, if configured.
date	string	Yes	The date of the status event in UTC format (e.g., 2025-07-08T09:00:00Z).
statusscanlocation	string	No	The geographical location or depot where the scan occurred.
status	string	Yes	A human-readable name for the status (e.g., "In Transit", see Status Name table below).
reference	string	No	Any additional reference information associated with this status event.

Electronic Proof of Delivery (ePOD) Webhook

This is a **separate webhook** triggered **only when an ePOD exists** and the consignment status is either **"In Transit"** or **"Delivered"**.

ePOD Fields

Field Name	Type	Required	Description
Base64	string	Yes	Base64-encoded file of the proof of delivery.
FileType	string	Yes	Type of the file (e.g., PDF, JPG).
ConsignmentNumber	string	Yes	Consignment number associated with the delivery.
Date	string	Yes	Timestamp of the proof of delivery event in UTC format (e.g., 2025-07-08T09:00:00Z).

Status Name

Name	Description
Pending Manifest	Consignment created, awaiting inclusion on a manifest.
Manifested	Consignment is on a manifest, ready for pickup.

Cancelled	The consignment has been cancelled.
Picked Up	The driver has collected the shipment.
Delivered	The entire shipment has been successfully delivered.
In Transit	The shipment is moving between depots.
On Board For Delivery	The shipment is on the local delivery truck.
Partially Delivered	Part of the consignment has been delivered.

5. Expected Response (From Your Endpoint)

After receiving the webhook, your endpoint **must** return a 200 OK status with a simple JSON body to acknowledge the request.

Acknowledgment Response

The response should be a JSON object with a single "status" key.

Value	Description
ok	You have successfully received and acknowledged the request.
fail	You have received the request, but encountered an error while processing it on your end.

> ℹ **Note:** A 200 OK response with {"status":"fail"} will **not** trigger a retry from Kamion. Retries are only for network or server-level errors (see Section 7).

6. Example Request and Response

Headers:

```
1  Authorization: Basic ZGF2aWQ6aXFFMSQwYUpJJSRld3NCNA==
2  fromentity: KAMION_AU
3  toentity: CUST_12345
4  Content-Type: application/json
```

Status Update Body:

```
1    {
2      "consignmentnumber": "MVETEST78484",
3      "labelnumber": "BMVETEST78484001",
4      "date": "2025-10-13T05:30:41.0706698Z",
5      "status": "Picked Up",
6    }
```

ePOD Body:

```
1  {
2    "Base64": "<Base64-encoded image>",
3    "FileType": "PNG",
4    "ConsignmentNumber": "NEXGG1",
5    "Date": "2025-10-13T05:33:15.5122549Z"
6  }
```

Example Success Response (from your endpoint)

Status: 200 OK

```
1  {
2    "status": "ok"
3  }
```

Example Failure Response (from your endpoint)

Status: 202 Accepted

```
1  {
2    "status": "fail"
3  }
```

7. Retry Logic and Error Handling

If Kamion's attempt to send a webhook to your endpoint fails (i.e., we do not receive a 2xx status code), Kamion will automatically retry.

- **Retry Schedule:** Kamion will attempt to resend the update with an exponential backoff strategy: after 1 minute, 5 minutes, 15 minutes, 60 minutes, and finally 4 hours.
- **Failure:** If all retry attempts fail, the webhook will be marked as "Failed," and a notification will be sent to your account's technical support contact email.

8. Expected Status Codes (From Your Endpoint)

Your endpoint should respond with standard HTTP status codes.

Code	Meaning	Kamion's Action
200	OK	Acknowledged. Kamion will consider the webhook successfully delivered.
202	Accepted	Acknowledged. Kamion will consider the webhook successfully delivered.
4xx	Client Error	Kamion will **not** retry, as this indicates a configuration error on customer's end.
5xx	Server Error	Acknowledged as a temporary failure. Kamion will initiate retry logic.

9. Terms of Use

- Your endpoint must be highly available and respond to requests within a 5-second timeout.
- By using this webhook, you agree to our full Terms of Service.

10. Changelog

- **2024-02-15 - v1.2.0**
  - **NEW:** Initial release of the Update Delivery webhook.
- **2025-10-15 - v1.2.1**
  - **NEW:** Updated documentation to include sending ePODs via webhook.