

# COBI.shipping

COBI.shipping is a REST-API service that acts as a connector between **Barcode Shipping** and **SAP Business One**. Its primary purpose is to exchange delivery and shipping data: it retrieves open delivery notes from SAP and reports back shipping information (including tracking numbers, weights, and item details) after the shipment has been processed.

## Features

**Delivery note retrieval:** COBI.shipping provides Barcode Shipping with open (or optionally closed) delivery notes from SAP Business One. Only delivery notes with allowed shipping methods and unassigned items (not yet packed) are included.

**Shipping confirmation:** After a shipment has been processed in Barcode Shipping, COBI.shipping sends shipping details back into SAP Business One, including tracking numbers, shipping weight, and item-package assignments.

**Automatic delivery note creation:** If no delivery note exists for an order, COBI.shipping can automatically generate one based on the corresponding Sales Order, ensuring correct serial number or bin location assignment.

**Status updates:** The service updates delivery notes with shipping statuses ("In progress" for partial shipments or "Completed" when fully shipped) and can optionally trigger automatic invoice creation.

**Integration with Coresuite Print:** After invoice creation, COBI.shipping can trigger automatic printing through the COBI.wms Printservice, using predefined layouts and print definitions.

**Shop/Partner feedback:** Once a shipment is completed, COBI.shipping can send status updates (including tracking numbers, delivery note references, and customer codes) back to connected shops or partners.

## Implementation details

- \* Delivered as a Windows service (installation via included batch files).
- \* Requires Barcode Shipping software and Java 11.
- \* API endpoints are provided under `/api/v1/` with authentication through an API key.
- \* Configuration is stored in SAP Business One (`@CMP\_CONFIG`) and must be reloaded by restarting the service after changes.
- \* Supports customizable UDF mappings for address fields, tracking numbers, and commodity codes.
- \* Optional automatic invoice creation and Coresuite Print integration.
- \* Reads address and shipping information directly from SAP table `DLN12`.

## Required UDFs in SAP Business One

For COBI.shipping to function properly, several **User-Defined Fields (UDFs)** must be created in SAP Business One. These fields store address information, shipping metadata, and customs information that are required by the integration.

Under *Delivery Notes* → *Lines (DLN12)*:

Title	Data type	Size	Description
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\\ cobo-shipment\\_firstNameField | Alphanumeric | 50 | First name of the recipient | \\ cobo-shipment\\_lastNameField | Alphanumeric | 50 | Last name of the recipient | \\ cobo-shipment\\_companyField | Alphanumeric | 100 | Company name of the recipient | \\ cobo-shipment\\_phoneField | Alphanumeric | 30 | Phone number of the recipient | \\ cobo-shipment\\_emailField | Alphanumeric | 100 | Email address of the recipient |

Under *Delivery Notes* → *Header*:

Title	Data type	Size	Description
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\\ cobo-shipment\\_trackingInHeaderField | Alphanumeric | 100 | Field to store tracking number(s) in delivery note | \\ cobo-shipment\\_alarmGroupId | Numeric | 11 | Alarm group for invoice errors |

Under *Items (OITM)*:

Title	Data type	Size	Description
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\\ cobo-shipment\\_oitmCommodityCodeField | Alphanumeric | 20 | Customs tariff code for export/import handling |

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