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:

1. It retrieves open delivery notes from SAP and
2. 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

1. Delivered as a Windows service (installation via included batch files).
2. Requires Barcode Shipping software and Java 11.
3. API endpoints are provided under `/api/v1/` with authentication through an API key.
4. Configuration is stored in SAP Business One (`@CMP_CONFIG`) and must be reloaded by restarting the service after changes.
5. Supports customizable UDF mappings for address fields, tracking numbers, and commodity codes.
6. Optional automatic invoice creation and Coresuite Print integration.
7. 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
cobi-shipping_firstNameField	Alphanumeric	50	First name of the recipient
cobi-shipping_lastNameField	Alphanumeric	50	Last name of the recipient
cobi-shipping_companyField	Alphanumeric	100	Company name of the recipient
cobi-shipping_phoneField	Alphanumeric	30	Phone number of the recipient
cobi-shipping_emailField	Alphanumeric	100	Email address of the recipient

Under *Delivery Notes → Header*:

Title	Data type	Size	Description
cobi-shipping_trackingInHeaderField	Alphanumeric	100	Field to store tracking number(s) in delivery note
cobi-shipping_alarmGroupId	Numeric	11	Alarm group for invoice errors

Under *Items (OITM)*:

Title	Data type	Size	Description
cobi-shipping_oitmCommodityCodeField	Alphanumeric	20	Customs tariff code for export/import handling

Optional toggles (Boolean, 0/1)

All of the following configuration keys are stored in **@CMP_CONFIG** and are read **on service start** (restart the COBI.shipping service after changes).

Key	Meaning (EN)
`cobi-shipping_companyFromCardName`	Use **CardName** as company name on the delivery address.
`cobi-shipping_firstLastNameFromContacts`	Take **first/last name** from the linked **Contact Person**.
`cobi-shipping_firstNameLastNameFromCardName`	Derive **first/last name** from **CardName**.
`cobi-shipping_companyFirstNameLastNameFromAddress3`	Pull **company / first / last name** from **Address3** field.
`cobi-shipping_addressFromAddress2`	Use **Address2** as the street address.
`cobi-shipping_companyAddressFromAddress2`	Take **name/company** from **Address2**.
`cobi-shipping_privateAddressFromAddress2`	Treat **Address2** as a **private** address.
`cobi-shipping_createInvoiceAfterFullyPacked`	**Auto-create Invoice** when the delivery is fully packed.

Key	Meaning (EN)
`cobi-shipping_invoiceDateEqDeliveryNoteDate`	Set **Invoice Date = Delivery Note Date** for auto-created invoices.
`cobi-shipping_displayClosedDeliveryNotes`	Also **show closed Delivery Notes** to Barcode Shipping.

Related non-boolean keys (for reference)

These are **not** toggles, but often configured alongside the above:

Key	Type / Example	Purpose
`cobi-shipping_trackingInHeaderFieldName`	Text (UDF name in Delivery header)	Stores tracking number(s) in the delivery header.
`cobi-shipping_alarmGroupId`	Numeric (e.g., `11`)	Alarm group used for invoice errors.
`cobi-shipping_oitmCommodityCodeField`	Text (UDF name on `OITM`)	Customs tariff code mapping.
`cobi-shipping_alternativeRecipient`	Text (UDF name)	Alternative recipient field.

> Note: Address field mappings like `cobi-shipping_firstNameField`, `..._lastNameField`, `..._companyField`, `..._phoneField`, `..._emailField` remain part of the **address configuration** (DLN12 mapping).

Coresuite Print configuration

If the system is configured for automatic invoice creation, COBI.shipping can trigger a Coresuite Print job right after the invoice is generated. This requires that the COBI.wms Printservice is installed and reachable.

Key	Type / Example	Purpose
cobi-shipping_printService	URL (e.g. http://127.0.0.1:62005)	URL of the COBI.wms Printservice endpoint
cobi-shipping_printDefinition	Text / ID (e.g. DeliveryNoteLayout)	Print Definition ID to be used for output
cobi-shipping_layoutId	Text / ID (e.g. 1001)	Layout ID for the document
cobi-shipping_printMode	Text (Print or Email)	Determines whether the invoice is printed or sent by email

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