

COBI.edi

COBI.edi is a background service for **Electronic Data Interchange (EDI)** with SAP Business One. It automates the exchange of business documents (e.g., sales orders, delivery notes, invoices) in XML format between SAP and EDI providers. COBI.edi supports both **import** and **export** of documents and integrates error handling, backup, and monitoring functions directly into SAP Business One.

Features

Supported transaction types:

- **ORDERS** – Import and export of sales orders
- **DESADV** – Import and export of delivery notes (dispatch advice)
- **ORDERSP** – Import of order confirmations
- **INVOICE** – Import and export of invoices

Supported EDI providers:

- Transus
- Avedium

Automation:

- Scheduled import/export runs at configurable intervals
- Backup and logging of all processed XML documents
- Consolidation of invoices into invoice lists
- Creation of shipping tours from open delivery notes (optional Coresuite printing)

Error handling:

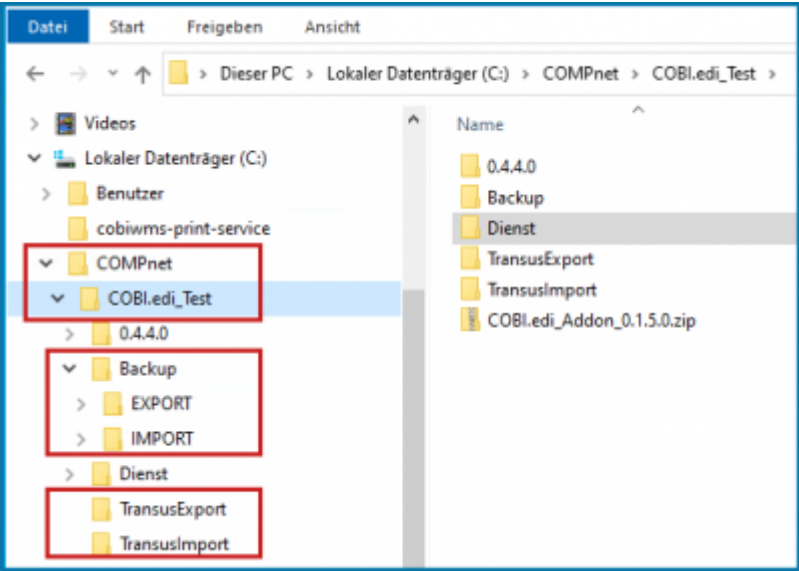
- Automatic SAP Business One alarms to a user group on import errors
- EDI Log for monitoring, filtering, and re-import of corrected documents
- Option to use **dummy business partners/items** if data is missing

Special developments:

- **DESADV import:** Creates not only goods receipt but also customer delivery note and invoice; additionally triggers the DataInterchange API to send a shipping update and customer email.
- **INVOICE import:** Incoming invoices are imported as “parked” documents with validation. Amounts are compared to purchase orders; mismatches generate warnings in SAP.

Installation

- Standard installation path: C:\COMPnet\COBI.edi
- COBI.edi runs as a Windows service and must be active.
- SAP Business One access is required for configuration.
- The service must be restarted after configuration changes.



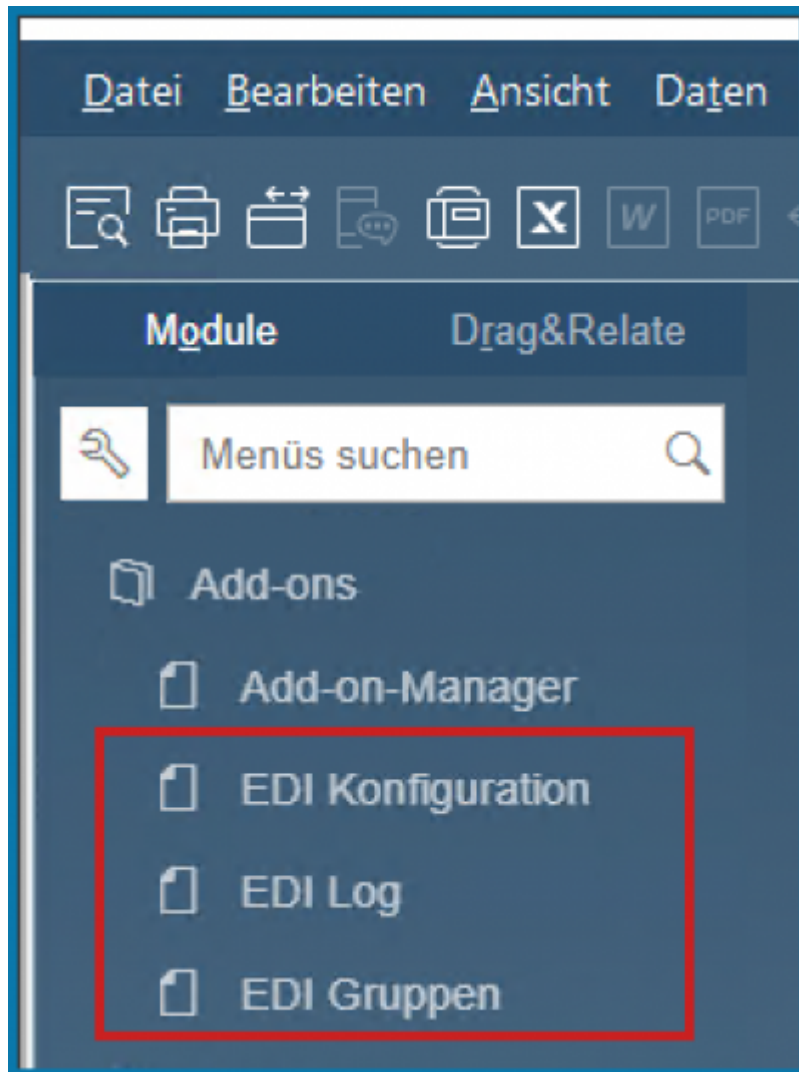
System structure and folders

Within the installation directory, COBI.edi uses the following main folders:

Folder	Purpose
Backup	Stores processed XML files (import/export), with subfolders per type
TransusExport	Export directory for outbound XML files
TransusImport	Import directory for inbound XML files

Configuration

When COBI.edi is installed, additional entries appear under **Administration → Add-ons** in SAP:



EDI Configuration:

Located under:

Administration → Add-ons → EDI Configuration

EDI Konfiguration

Backup Pfad: Überprüfen

Import Interval (In Minuten):

Alarmgruppe:

EDI Server:

Dummy Geschäftspartner:

Dummy Artikel:

☐ Rechnungsdaten aus FatherCard holen

☒ Alarm bei erfolgreichem Import

Transus Ordner:

Transus Import Pfad: Überprüfen

Transus Export Pfad: Überprüfen

Status REST API: Aktiv

Speichern

Important settings:

- **Backup path** – Storage location for XML backups
- **Import interval** – Time in minutes between import runs.
- **Alarm group** – User group for automatic SAP alarm messages in case of errors.
- **EDI provider server address** – (e.g., Transus/Avedium)
- **Dummy partner/item definitions** – Placeholder for unrecognized data
- **Tranus Import/export paths** – Folder for exchange files.
- **Special options** - (e.g., export with test flag, export pack structures, fetch invoice data from FatherCard)

EDI Log:

Located under:

Administration → Add-ons → EDI Log

EDI Log Suche

Suche: ☒ nur offene Fehler und Warnungen

Status: Typ: Sachbearbeiter:

EDI Gruppe:

Datum von: Datum bis:

Status Dienst REST API: Aktiv

Zeit	Datum	Dokument...	Status	Richtung	Nachricht	EDI Gruppe	Dokument...	Datenname	Notiz	Sachbearbeiter
10:40	21.03.2024		Fehler	Import	CardCode with GLN: 4314120205785 not found.		ORDERS	21032024_104004_EDEKA_SW_116478041.xml		
10:58	21.03.2024	20240200; Warnung	Import		Zeile: 150 für ArtikelNr: 10507 falsche GTIN: 4260664042501 erhalten, Zeile: 160 für EDEKA		ORDERS	19032024_071014_EDEKA_116276291.xml		
12:08	21.03.2024	20240200; Warnung	Import		Zeile: 1 für ArtikelNr: 10178 falsche GTIN: 0000000000000 erhalten, Zeile: 2 für Ar REWE		ORDERS	21032024_120808_REWE_116486851.xml		0
21:08	19.03.2024		Fehler	Import	Die Datei 19032024_210807_EDEKA_116342078.xml konnte nicht importiert werden		ORDERS	19032024_210807_EDEKA_116342078.xml		
13:48	19.03.2024		Fehler	Import	Die Datei 19032024_134802_REWE_116313325.xml konnte nicht importiert werden		ORDERS	19032024_134802_REWE_116313325.xml		
11:04	16.03.2024		Fehler	Import	Item with GTIN: 0000000000000 not found and no DummyArticle		ORDERS	16032024_110409_REWE_116143166.xml		
11:48	12.03.2024		Fehler	Import	Item with GTIN: 0000000000000 not found and no DummyArticle		ORDERS	12032024_114811_REWE_115825218.xml		
08:38	09.03.2024		Fehler	Import	Item with GTIN: 0000000000000 not found and no DummyArticle		ORDERS	09032024_083801_REWE_115656044.xml		
13:46	09.03.2024		Fehler	Import	Item with GTIN: 0000000000000 not found and no DummyArticle		ORDERS	09032024_134606_REWE_115668046.xml		
14:02	09.03.2024		Fehler	Import	Item with GTIN: 0000000000000 not found and no DummyArticle		ORDERS	09032024_140206_REWE_115668142.xml		
16:56	09.03.2024		Fehler	Import	Item with GTIN: 4260664043584 not found and no DummyArticle		ORDERS	09032024_165608_EDEKA_115674391.xml		
16:52	07.03.2024		Fehler	Import	CardCode with GLN: 4314120205785 not found.		ORDERS	07032024_165208_EDEKA_SW_115542092.xml		
16:52	07.03.2024		Fehler	Import	CardCode with GLN: 4314021625347 not found.		ORDERS	07032024_165209_EDEKA_SW_115542220.xml		
13:16	04.03.2024	20240200; Warnung	Import		Zeile: 1 für ArtikelNr: 10472 falsche GTIN: 0000000000000 erhalten, Zeile: 2 für Ar REWE		ORDERS	04032024_131613_REWE_115231767.xml		0
20:08	04.03.2024	20240200; Warnung	Import		Zeile: 40 für ArtikelNr: 10172 falsche GTIN: 4260664040415 erhalten, Zeile: 70 für EDEKA		ORDERS	04032024_200800_EDEKA_115266973.xml		0
10:04	29.02.2024	20240200; Warnung	Import		Zeile: 1 für ArtikelNr: 10472 falsche GTIN: 0000000000000 erhalten, Zeile: 2 für Ar REWE		ORDERS	29022024_100413_REWE_114999426.xml		0
14:04	28.02.2024	20240200; Warnung	Import		Zeile: 1 für ArtikelNr: 10005 falsche GTIN: 0000000000000 erhalten, Zeile: 2 für Ar REWE		ORDERS	28022024_140405_REWE_114936517.xml		0
15:16	28.02.2024	20240200; Warnung	Import		Zeile: 1 für ArtikelNr: 10005 falsche GTIN: 0000000000000 erhalten, Zeile: 2 für Ar REWE		ORDERS	28022024_151605_REWE_114943327.xml		0
12:20	26.02.2024	20240200; Warnung	Import		Zeile: 50 für ArtikelNr: 10472 falsche GTIN: 4260664042143 erhalten, Zeile: 60 für EDEKA		ORDERS	26022024_082407_EDEKA_114735103.xml		
13:14	26.02.2024		Fehler	Import	CardCode with GLN: 4313852018267 not found.		ORDERS	26022024_131407_EDEKA_114761730.xml		
20:42	26.02.2024		Fehler	Import	CardCode with GLN: 4313852018939 not found.		ORDERS	26022024_204211_EDEKA_114796181.xml		
13:12	16.02.2024		Fehler	Import	Die Datei 16022024_131203_12022024_120609_EDEKA_113877760.xml konnte		ORDERS	16022024_131203_12022024_120609_EDEKA_11387776		
17:34	09.02.2024	20240200; Warnung	Import		Lieferadresse Vergleich in Prozent: 74,	EDEKA	ORDERS	09022024_173401_09022024_093213_EDEKA_11347494		2
18:51	09.02.2024		Fehler	Import	Item with GTIN: 4260664042143 not found and no DummyArticle		ORDERS	09022024_185136_09022024_181401_09022024_17360		
18:14	09.02.2024		Fehler	Import	Die Datei 09022024_181401_09022024_173601_09022024_173408_06022024_		ORDERS	09022024_181401_09022024_173601_09022024_17340		

- Central monitoring tool for all import/export jobs
- Displays status (success, warning, error) with details
- Allows filtering and re-import of corrected documents
- Documents can be marked as completed

EDI Groups:

Located under:

Administration → Add-ons → EDI groups

EDI Gruppenkonfiguration

EDI-Gruppe

EDEKA

Hinzufügen

DESADV-GLN

4311501990018

☐ Nur gepackte Lieferscheine anlegen

Rechnungs-GLN

4311501990018

Abkommensnumm

ORDRSP-GLN

☐ MasterNVE ausgeben

Kopf Rabattcode

DI

☐ GTIN als GTINVE ausgeben

☐ Packstrukturen exportieren (DESADV)

☒ mit Testkennzeichen exportieren

☒ Standardadresse bei keiner GLN

Sachbearbeiter

4

Typ

Ja/Nein

Rechnung

☒

Lieferschein

☒

Kundenauftrag

☐

Bestellung

☐

Rechnungsliste

☐

Transaktionsgruppe

Std

Hinzufügen

Transaktionsart

Intervalltyp

Intervallwert

Startzeit

Endzeit

Zuletzt aus...

Rechnung

Manuell

Lieferschein

Täglich

15:00

21.03.2024 15

Lieferschein

Manuell

Geschäftspartner

Hinzufügen

Code

Name

L

10277

Edeka Christopher Kempf Marburg

M

10287

EDEKA Markt Kai Göbel e.K.

H

10174

Edeka Hermann Handelsgesellschaft Erda GmbH & Co. KG

H

10385

Edeka Preiss GmbH Alten Buseck

Al

10168

Edeka Grünberger Markthalle - Horst

Gr

10340

Edeka Steffen Preiss GmbH&Co KG Großen Buseck

Gr

10272

Edeka Kempf OHG Niederweimar

Ni

Speichern

- Grouping of business partners (e.g., corporate structures)
- Configuration of GLN numbers for orders, invoices, DESADV, ORDRSP
- Options for invoice lists, pack structure exports, master NVE, discounts, test runs
- Assignment of transaction types and export intervals (manual, daily, hourly, minutely)

EDI Group configuration

An **EDI Group** bundles multiple business partners (e.g., subsidiaries of a corporate group) under one configuration. All members of a group inherit the same EDI settings. Configuration is done via:
Administration → Add-ons → EDI Groups

The following options are available:

Setting	Description
EDI Group	Name under which the group is maintained (e.g., corporate name).
DESADV GLN	Global Location Number used for delivery notes (DESADV).
Only create packed delivery notes	Ensures that only packed delivery notes are created for this group.
Invoice GLN	GLN used for invoices.

Setting	Description
Agreement number	Contract or agreement ID used for EDI transactions.
ORDRSP GLN	GLN used for order confirmations (ORDRSP).
Output Master NVE	Option to include the Master NVE (Number of Shipping Unit) in DESADV messages.
Header discount code	Discount identifier at document header (e.g., "DI" for Discount). Customers may require specific codes.
GTIN as GTINVBE	Option to output GTIN values as GTINVBE in the EDI document.
Export pack structures (DESADV)	Exports hierarchical packaging structures in DESADV messages.
Export with test flag	Marks the transaction as a *test export*.
Default address if no GLN	Uses the group's main address if no delivery address is available for a partner.
Responsible employee	SAP user internally responsible for this EDI group.
Type	Defines which document types (transactions) are processed/exported for this group.
Invoice list	Option to consolidate multiple invoices into an invoice list. The list receives its own transaction number.
Transaction group	Assignment to a defined transaction group with its own export interval.

Transaction group table:

Transaktionsgruppe	Std	Hinzufügen						
Transaktionsart	Intervalltyp	Intervallwert	Startzeit	Endzeit	Zuletzt ausgeführt am	Aufträge ab Datum abgleichen	Nur Belege der letzten X Tage abrufen	
Rechnung	Manuell						0	
Lieferschein	Täglich	15:00			21.03.2024 15:00:09	20.03.2024	0	
Lieferschein	Manuell						0	

Transaction group intervals:

For each document type, the export interval must be defined:

- **Manual:** No automatic export, only on demand
- **Daily:** Export at a defined time of day
- **Hourly:** Export every *x* hours
- **Minutely:** Export every *x* minutes

Additional fields:

- **Start time / End time** – defines the active period for hourly or minutely exports
- **Last execution** – read-only field showing the last export timestamp
- **Compare orders from date** – only exports orders with document date equal to or later than this value
- **Export only documents of the last X days** – restricts export to a rolling time window

Business partners:

Each EDI Group can have multiple assigned business partners. Partners can be added via the “Add” button in the group configuration or directly in the **Business Partner Master Data** by assigning the *EDI Group Code*.

Invoice lists

- Creation via: Sales → Create Invoice List

- Selection of consolidation partner and time period
- Consolidation of multiple invoices into a single list with a continuous transaction number
- Search via: Sales → Search Invoice List

Suche Rechnungsliste

Suche

von bis

Rechnungslistennr.	Geschäftspartner	Name	Erstelldatum	Status	Anzahl der Belege

Anzeigen Löschen Senden

EDI Shipping Tours

- Accessible via: Sales → EDI Shipping Tours
- After selecting a shipping method, all open delivery notes of this type that have not yet been assigned are displayed

EDI Speditionstouren

Speditionstour: 14062024_1 Liste Abbrechen

Datum: 14.06.2024

Speditionsort:

Exportiert am:

als Art:

Nicht zugewiesen

Bemerkungen

Liste Versandarten

Suchen

#	Code	Name
1	1	UPS Ground
2	2	UPS Rot
3	3	Fedex
4	4	DHL
5	5	Deutsche Post

Auswählen Abbrechen Neu

- Allows the creation of shipping tours from open delivery notes

The screenshot shows the 'EDI Speditionstouren' window. At the top, there are input fields for 'Speditionstour' (140), 'Datum' (14.06.2024), and 'Speditionstyp' (SPS Grund). Below these are buttons for 'Liste' and 'Abbrechen'. A 'Bemerkungen' text area is on the right. The main area is divided into two tables: 'Nicht zugewiesen' (left) and 'Zugewiesen' (right). A red arrow points from the 'Nicht zugewiesen' table to the 'Zugewiesen' table. The 'Zugewiesen' table contains four rows of data, each with a yellow star icon in the first column. At the bottom, there is a checkbox for 'Speditionsavis schicken' and buttons for 'EDI Export' and 'Speichern'.

Nicht zugewiesen			Zugewiesen	
Lieferscheinr.	Kunde	CardCode	Lieferscheinr.	Kunde
			915	EDEKA
			916	EDEKA
			917	EDEKA
			918	EDEKA

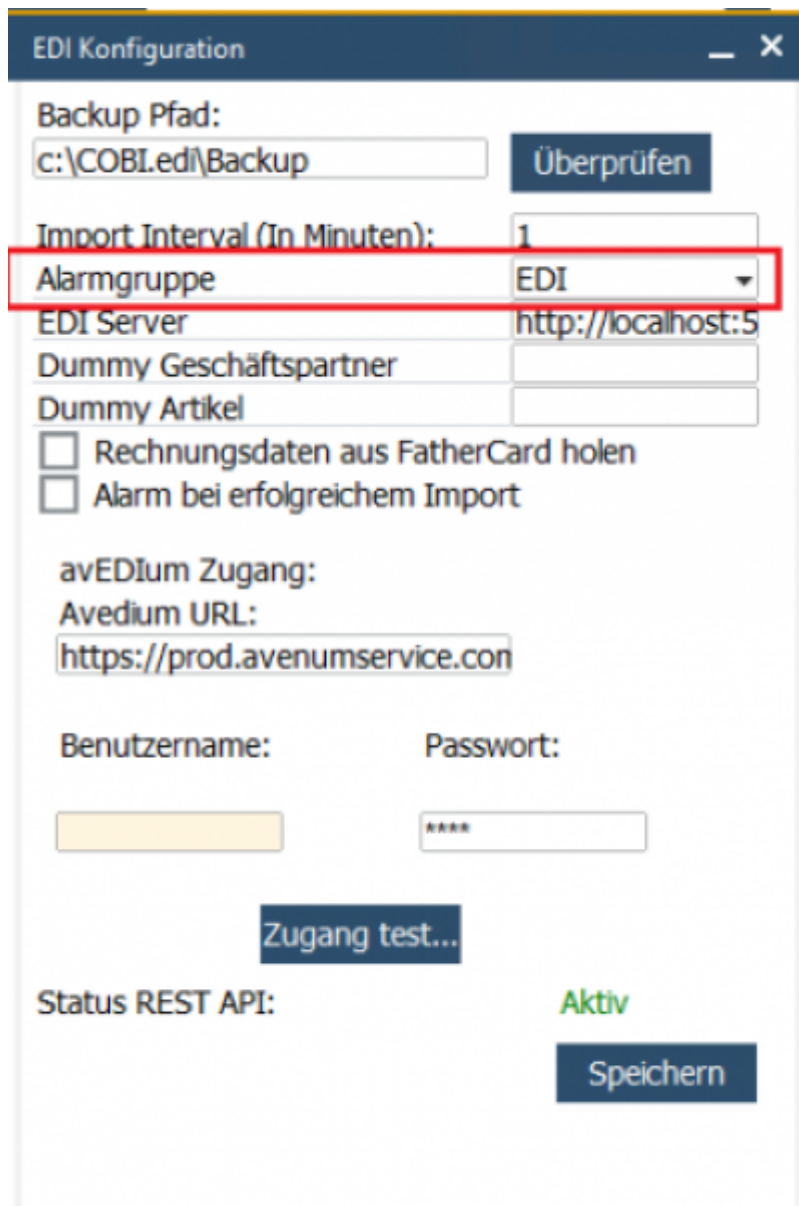
- Export possible as shipping advice or tour for the carrier
- Optional with Coresuite layout print

Import and export flows

- All documents are stored in **Backup/IMPORT** or **Backup/EXPORT** folders by transaction type.
- All activities are logged with timestamp, transaction type, file name, and status.
- Test exports can be executed directly from the document view in SAP (button **EDI Export**).

Error handling

- If an error occurs during import, a SAP Business One alarm is triggered and sent to the alarm group specified in the EDI configuration.



EDI Konfiguration

Backup Pfad:
c:\COBI.edi\Backup Überprüfen

Import Interval (In Minuten): 1

Alarmgruppe EDI

EDI Server http://localhost:5

Dummy Geschäftspartner

Dummy Artikel

☐ Rechnungsdaten aus FatherCard holen

☐ Alarm bei erfolgreichem Import

avEDIum Zugang:
Avedium URL:
https://prod.avenumservice.com

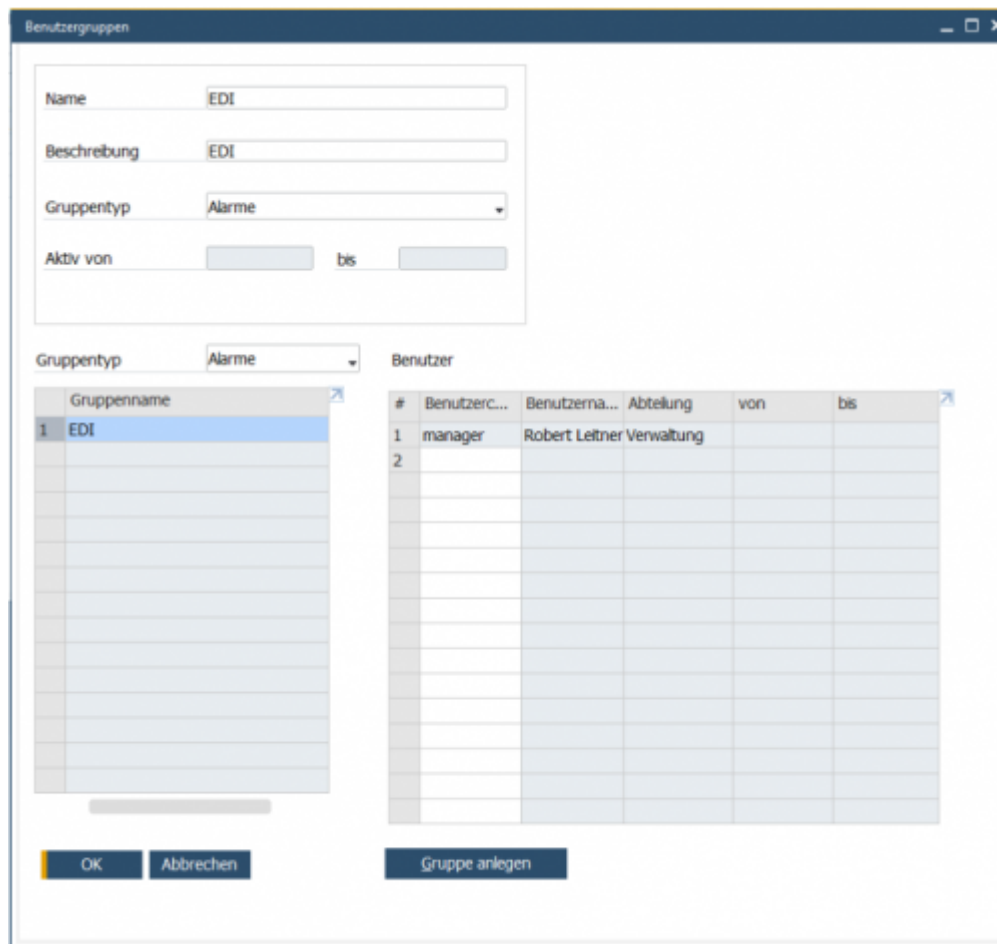
Benutzername: Passwort:

Zugang test...

Status REST API: Aktiv

Speichern

- The alarm group must first be created in SAP Business One under User Groups with the group type Alarms, before it can be assigned in the EDI configuration.



Benutzergruppen

Name:

Beschreibung:

Gruppentyp:

Aktiv von: bis:

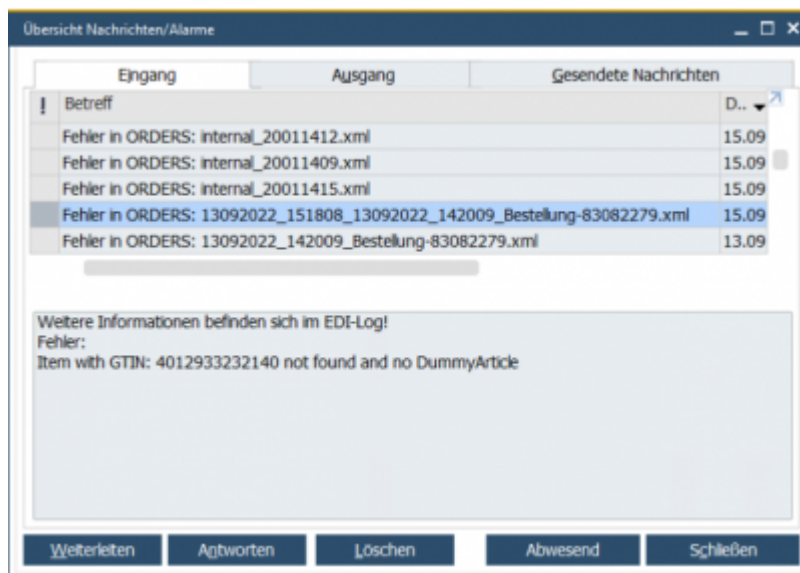
Gruppentyp:

Gruppenname
1 EDI

#	Benutzern...	Benutzerna...	Abteilung	von	bis
1	manager	Robert Leitner	Verwaltung		
2					

OK Abbrechen Gruppe anlegen

- In case of import errors, an alarm is automatically sent to the configured alarm group.



Übersicht Nachrichten/Alarme

Eingang	Ausgang	Gesendete Nachrichten
! Betreff		D..
Fehler in ORDERS: internal_20011412.xml		15.09
Fehler in ORDERS: internal_20011409.xml		15.09
Fehler in ORDERS: internal_20011415.xml		15.09
Fehler in ORDERS: 13092022_151808_13092022_142009_Bestellung-83082279.xml		15.09
Fehler in ORDERS: 13092022_142009_Bestellung-83082279.xml		13.09

Weitere Informationen befinden sich im EDI-Log!
Fehler:
Item with GTIN: 4012933232140 not found and no DummyArticle

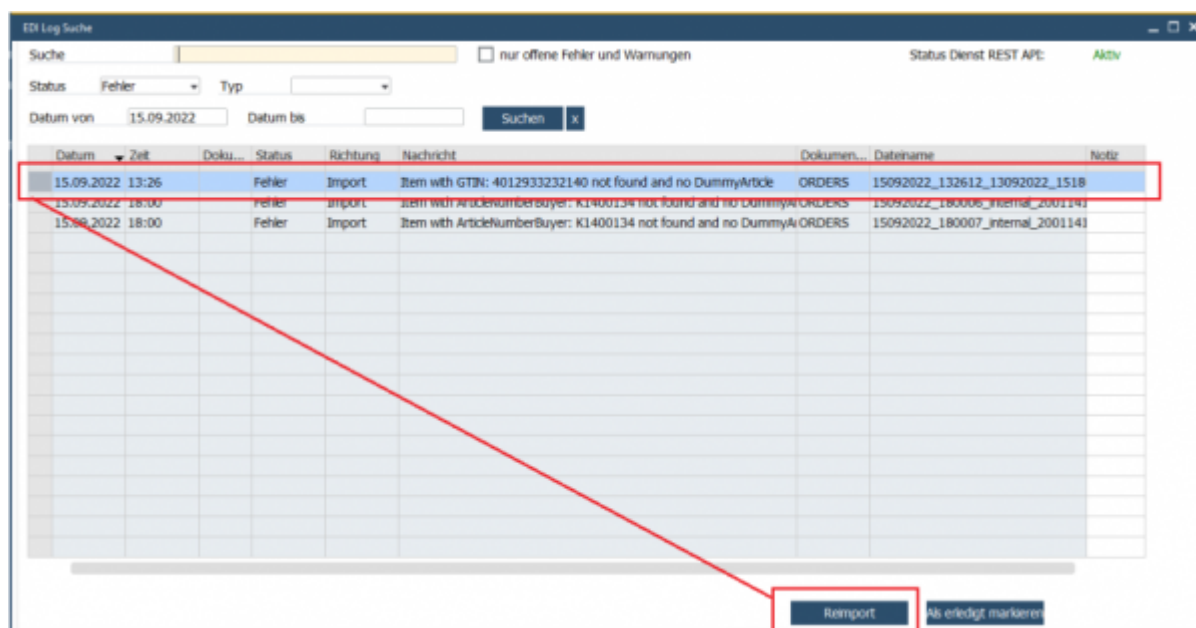
Weiterleiten Antworten Löschen Abwesend Schließen

- Typical errors:
- Item number / GTIN not found
- Business partner or delivery address not available

Processing in the EDI Log & Reimport

- Complete missing data in SAP (e.g., add GTIN, create business partner).

- Mark the document in the **EDI Log** → start **Reimport**.



- After a successful reimport: a new log entry is created with status **"Reimport"** and the document number.

Dummy business partners and dummy items

- If enabled, missing partners or items are automatically replaced with **dummy data**.

EDI Konfiguration

Backup Pfad:

Import Interval (In Minuten):

Alarmgruppe:

EDI Server:

Dummy Geschäftspartner

Dummy Artikel

☐ Rechnungsdaten aus FatherCard holen

☐ Alarm bei erfolgreichem Import

avEDIum Zugang:

Avedium URL:

Benutzername: Passwort:

Status REST API: Aktiv

- No SAP alarm is triggered; instead, a **warning** is shown in the EDI Log.

EDI Log Suche

Suche ☐ nur offene Fehler und Warnungen

Status: Typ:

Datum von: Datum bis:

Datum	Zeit	Dokumentennummer	Status	Richtung	Nachricht
13.09.2022	18:38	979	Warnung	Import	4251471401049 nicht gefunden, 4251471401056 nicht gefunden, 4251471401735 nicht gefunden, 4251471401742 nicht gefunden

- The document is still imported but must be corrected manually later.

Testing

- From a business partner document (invoice, delivery), click *EDI Export*.

Gesamt vor Rabatt		77,40 EUR
Rabatt	<input type="text"/> %	
Fracht	<input type="text"/>	
<input type="checkbox"/> Rundung		
Steuer		14,71 EUR
Gesamt		92,11 EUR

Exportiert am: 14.06.2024

EDI Export
Kopieren von
Kopieren nach

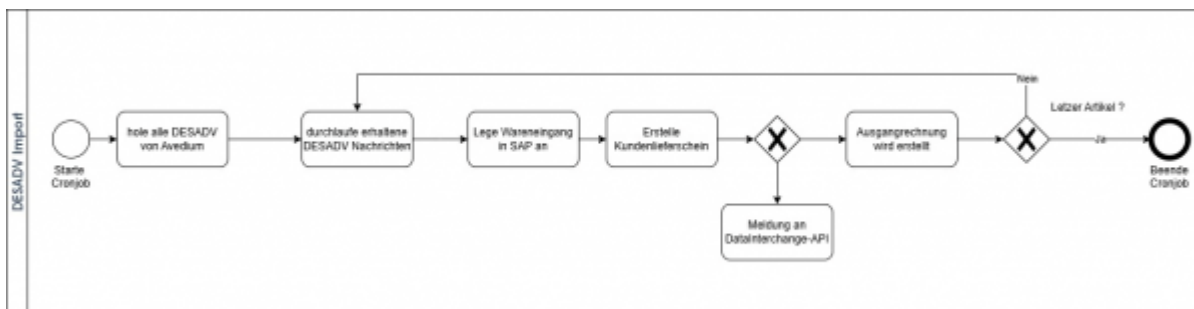
- XML will be generated in the export path.
- Export timestamp is stored; structure validation must be performed by the trading partner.

Special development

Since the standard functionality is not always sufficient, special logic must be implemented via plugins for customer-specific requirements.

DESADV import

When importing a DESADV (dispatch advice) from a supplier, in addition to the normal goods receipt the following actions are performed automatically: A customer delivery note and an invoice are created in SAP Business One. The UpdateOrder endpoint of the DataInterchange API is called so that the shipping notification is sent to the shop via S4T. A shipping email is sent to the customer.



INVOICE import

For better control in accounting, the INVOIC import has been adapted so that incoming invoices are created in SAP Business One as “parked documents.” Additional validation checks are applied:

When importing an INVOIC, the amounts from the received file are compared with those from the corresponding purchase order.

If discrepancies are found, a dedicated warning field in SAP Business One is filled accordingly.

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Last update: **2025/08/25 12:35**

