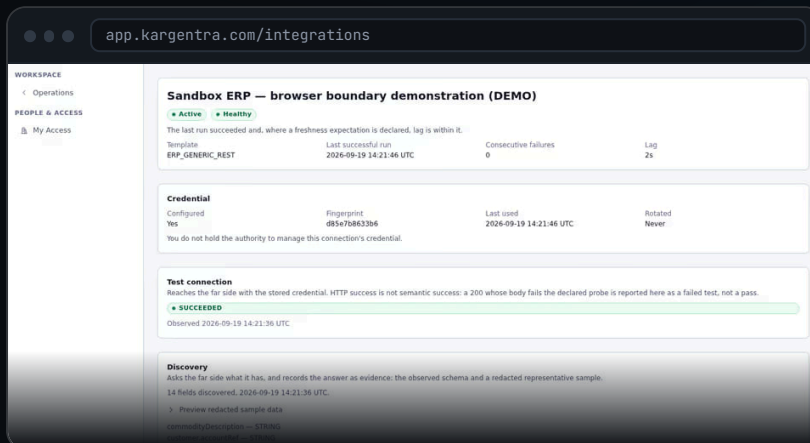


INTEGRATIONS

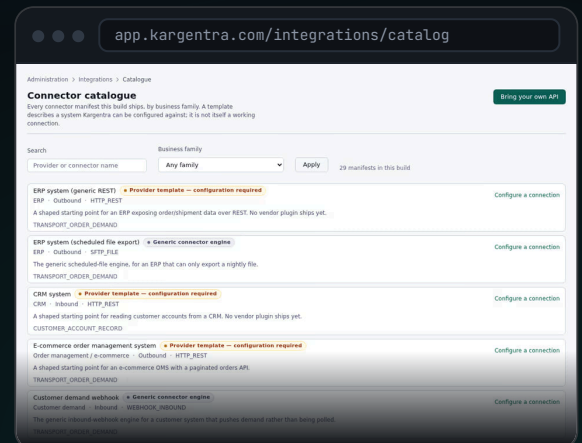
Integrations

Logistics integrations for your ERP, partners, carriers and maps

Kargentra runs logistics integrations with the systems you already use through one governed Connector Hub: EDI X12 204 load tenders, contract-first REST APIs, events and signed webhooks, ERP and external OMS coexistence, and a metered maps provider. Every exchange is recorded with a correlation id, failures name their fix, and a failed exchange is replayed without a duplicate effect.



CONNECTOR HUB · A HEALTHY ERP CONNECTION WITH ITS EXCHANGE HISTORY



CONNECTOR HUB · THE CONNECTOR CATALOGUE

WHAT CHANGES FOR THE OPERATION

Failures you can see and fix

Each exchange attempt is recorded as landed, partial, refused or failed, with a correlation id and a plain next action, instead of disappearing inside a script.

EDI partners on day one

Shippers keep sending the X12 204 load tenders their systems already produce, and every file traces to the transport order it created.

Build against a contract

Every API operation and event is defined in a versioned contract pack with frozen schemas and the permission it requires.

Safe to retry, safe to replay

Idempotency keys and duplicate detection mean a retried request or replayed file never creates a second order.

WHAT INTEGRATIONS DOES

Connector Hub

A governed catalogue of connector templates and a runtime that runs each tenant connection end to end: store the credential, test, discover, map with versioned approval, sync and inspect every exchange.

- Families include ERP, CRM, e-commerce, external WMS and TMS, carrier, parcel, ELD and telematics, yard gate, POD, finance and customs
- Auth profiles: API key header, bearer token, basic and query parameter
- Health reported as lag and consecutive failures

EDI X12 204 load tender intake

Inbound X12 004010 204 motor carrier load tenders from registered trading partners are validated deterministically, kept as immutable evidence and turned into transport orders through the governed create command.

- Trading partners move through Draft, Tested, Active and Paused
- Activation requires an approved mapping version
- Upload a file in the workbench or send it machine to machine

REST APIs with OpenAPI contracts

Every operation is defined in a versioned OpenAPI contract with frozen schemas, fixtures and the permission it requires, validated on every change.

- Permission binding declared on every operation
- Problem Details error bodies with a correlation id
- Idempotent create, change and cancel where the lifecycle permits

Events and signed webhooks

Domain events are described as AsyncAPI contracts. Lifecycle webhooks are HMAC-signed, carry the partner's own record identity and report their delivery health.

- Delivered in the last 24 hours, Pending, Retrying and Failed
- Governed replay with a fresh retry budget
- At-least-once delivery with duplicate suppression on receipt

ERP and external OMS coexistence

An ERP or external order system authenticates machine to machine and creates demand under its own durable identity. Reconciliation runs show matches and mismatches on both sides.

- Machine clients with their own credentials
- Safe retries on create, change, cancel and re-release
- Reconciliation: Expected, Matched and Mismatched

Field mapping with versioned approval

Mappings between your fields and Kargentra records are saved as drafts and approved as numbered versions. Ask Kargentra can propose a mapping, which writes nothing until a person approves it.

- "Approve version N" as an explicit, recorded step
- AI mapping assist is proposal only
- Earlier versions kept for comparison

HOW IT FLOWS

From a template to a monitored, replayable connection

- 01 **Template chosen**
Pick a connector template from the catalogue and bind it to the process stage it serves.
- 02 **Credential sealed**
Store the credential once. It is encrypted, bound to your tenant and connection, and never shown again.
- 03 **Tested and discovered**
Run a connection test and a discovery run to see what the other system offers.
- 04 **Mapping approved**
Map fields to Kargentra records, save a draft and approve it as a numbered version.
- 05 **Switched on**
Activate the connection. Onboarding readiness clears only after a successful exchange.
- 06 **Exchanges observed**
Each attempt is recorded with its outcome, correlation id and idempotency key, and health is tracked as lag.
- 07 **Failures replayed**
Fix the cause and replay the file or delivery. Duplicate detection prevents a second effect.

ASK KARGENTRA IN INTEGRATIONS

“Why did this EDI file fail?”

Interchange 000004417 from trading partner Brackenfield Foods was rejected at the second S5 segment: the stop sequence must be numeric and the file contains ‘A2’. The envelope, control numbers and B2 shipment identification are valid, and the partner’s previous files this week were applied. One connection, the ERP order feed, has been lagging for 40 minutes after three consecutive failures.

INTERCHANGE 000004417 · SEGMENT S5

TRADING PARTNER · BRACKENFIELD FOODS · ACTIVE

CONNECTION · ERP ORDER FEED · HEALTH

PROPOSAL · APPROVED BY THE INTEGRATION ADMINISTRATOR APPROVES THE MAPPING VERSION BEFORE IT APPLIES

Draft mapping version 3 for the ERP order feed, mapping its delivery window fields to the order’s requested window.

Ask Kargentra reads only what your role can open, cites every fact and proposes. A named person approves; nothing is sent or executed on its own.

EXCEPTIONS AND EDGE CASES HANDLED

- An exact duplicate EDI file is recognised and never applied twice.
- A 204 from an unregistered sender is held as Unmatched sender instead of creating an order.
- A 204 missing B2, B2A or N1, or with fewer than two S5 stops, is rejected with the segment named.
- An SE segment count that does not match the transaction is rejected as a control count mismatch.
- A webhook that exhausts its retries is replayed through a governed action with a fresh retry budget.
- A partner that retries a create with the same idempotency key gets the original result, not a second order.

CAPABILITY REFERENCE

Connector Hub

- Governed catalogue of connector templates
- Sealed credential, test, discovery, mapping, sync
- Exchange attempts: Landed, Partial, Refused, Failed
- Correlation id and idempotency key per attempt
- Health as lag and consecutive failures
- AI mapping assist, proposal only

EDI X12 204 segment mapping

- ISA, GS, ST: control numbers kept as evidence (004010)
- B2: carrier code and shipment identification
- B2A: transaction set purpose code
- L11: reference numbers with qualifiers
- G62: dates and times, header or per stop
- S5: stop sequence and reason code (two or more)

EDI operations

- Trading partners: Draft, Tested, Active, Paused
- File upload in the workbench or machine intake
- Raw file, SHA-256 and correlation id kept immutably
- Failure classes: file, partner, mapping, business, duplicate, permission
- Replay this file; open the transport order
- SE segment count verified

APIs and events

- Versioned OpenAPI contract pack
- AsyncAPI event contracts
- Permission declared on every operation
- Problem Details errors with correlation id
- Machine-to-machine client credentials
- Idempotent lifecycle commands

Webhooks and coexistence

- HMAC-signed lifecycle webhooks
- Delivery health and history
- Governed replay with fresh retry budget
- External OMS, TMS and WMS stage ownership
- Reconciliation runs: expected, matched, mismatched
- Partner gateway with endpoint safety checks

Maps and credentials

- Tenant-governed maps provider
- Sealed, replaceable API keys
- Durable usage metering
- Route proposals applied only by governed resequence
- Per-credential encryption bound to tenant and connection
- Rotation proven by fingerprint

STANDARDS AND CONNECTIONS

EDI X12 004010 204 (INBOUND)

REST API WITH OPENAPI CONTRACTS

ASYNCAPI EVENTS

HMAC-SIGNED WEBHOOKS

MACHINE-TO-MACHINE OIDC CLIENTS

ERP CONNECTOR TEMPLATES

ELD AND TELEMATICS CONNECTORS

MAPS PROVIDER

CSV INITIAL IMPORT

QUESTIONS BUYERS ASK

Which EDI transactions does Kargentra support?

Kargentra receives X12 004010 204 motor carrier load tenders from registered trading partners, by file upload or machine-to-machine intake. Each file is validated, kept as immutable evidence and applied to a transport order, with replay for fixed files. Tender answers, status and other lifecycle updates are exchanged through the REST API, signed webhooks and the partner gateway.

Is there a REST API?

Yes. Every operation is defined in a versioned OpenAPI contract with frozen schemas and the permission it requires, and events are described as AsyncAPI contracts. Errors return a Problem Details body with a correlation id, so any failure can be traced. External systems authenticate as machine clients and can safely retry create, change and cancel calls.



See Integrations on your own scenario

Bring a real lane, site or exception. More at www.kargentra.com/integrations/

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