eCMR - collaboration between all stakeholders

"Of course, every single company could have solved this technically on their own, but it was only as a group that we were able to create a legally and organisationally acceptable solution."

Member companies from Working Group Electronic Transport Documents of the Open Logistics Foundation

Benjamin Eggert

Current members of the working group

What does it do?

iteratec

Concept

- Federated platforms exchanging eCMR documents using the unified eCMR data model
- No centralized instance, mediator or broker needed, everyone can become part of the network
- Usage of advanced electronic seals on company level to sign and validate eCMRs

Create
Uniformly create shipping documents for international carriage.

Edit
Modify documents in human and machine-readable format.

Save & Forward
Securely store and transmit documentation to relevant parties.

Archive
Maintain electronic records for compliance and reference.

What flavors does it come in and why?

Flavor One - Instance

Includes all components from the repository

1. eCMR data model
2. eCMR instance
   - Frontend (optional, can be adjusted to YOUR UI design/company style guide)
   - Backend
   - API (using the eCMR data model) for sharing eCMRs with other instances
   - API (using the eCMR data model) for importing eCMR (e.g., from TMS/ERP ....)
3. Electronic seals
   - Signing eCMRs as legal entities (eIDAS conform)
   - Verifying signed eCMRs

Flavor Two – API

Selected components from the repository

1. eCMR data model
2. eCMR API
   - API (using the eCMR data model) for sharing eCMRs with other instances
   - API (using the eCMR data model) for importing eCMR (e.g., from TMS/ERP ....)
   - The API is defined by the openapi.yml file
3. Electronic seals
   - Signing eCMRs as legal entities (eIDAS conform)
   - Verifying signed eCMRs

That's nice but what have you actually done?

Publishable results

• eCMR data model 1.0 (published)
• eCMR instance
• Frontend (published)
• Backend (published)
• API for the import/export of data (published)
• API for the authentication of users (published)
• eIDAS eSeals (published)

Completed activities

•Apr 2025: Use Cases defined between Dachser, Markant, Rhenus, BlueYonder
•May 2025: Collect + Go is the first eCMR service provider to implement our OS solution
•Jun 2025: eCMR Brochure (incl. tech. description, legal FAQs)
•Jun 2025: Press conference & Panel at Transport Logistic
•Aug 2025: New Sharing process finalised

iteratec

That's nice but what are you going to do next?

Next planned activities

• Large scale pilot including several LSPs, shippers and externals (subcontractors, customers, etc.)

• Decision: Management of eSeals

• Release of API v1.0

That's nice but when are you going to do it?

iteratec

02/2025
Start of implementation Task Force

03/2025 – 06/2025
Adding more partners and use cases to the current pilot

From 07/2025 onwards
Transition from pilot to product

From 09/2025 onwards
Broader usage of OS solution by non-members

2025

03/2025
Start of operative use of the eCMR pilot

06/2025
Press conference & Panel to present eCMR solution on Transport Logistics Fair

09/2025
Release of API v1.0

Risks, Issues and Open Decisions

- none

Strategic Overview

- Aligning the OLF data model with UN data model and IRU template
- Fostering European integration through collaboration with GIZ
- Setting up cross-company use-cases to highlight interoperability

01.10.2025