Electronic EFTCO Cleaning Document e-ECD

Industry moving towards the electronical version of the EFTCO Cleaning Document

Peter Devos, ECLIC Managing Director
Brussels April 4, 2019
What is an eECD?

ECD = “EFTCO Cleaning Document”
✓ is a support document for every single tank cleaning
that contains data from different parties

3.000.000 ECD paper docs per year X 4-fold

Unloading Product
Chemical Customer

Transport Company
Chemical Company

Loading Product
eECD value drivers

Operate real time with ZERO-errors

Avoid loss of ECD paper documents
Security against fraud & improve compliance
Improve transactional data accuracy & decision making

Quality & Compliance

Transactional transparency - Zero paper logistics
Enhance safety thru accurate SDS info
Previous load tracking & tracing

Safety & Sustainability

Transactional Real time visibility & predictability
Reduced waiting times at plants & terminals
Automation of paper processes & checks

Efficiency & cost

App

Operate real time with ZER0-errors

Operate real time with ZER0-errors
EU zero paper: e-Freight Document vision

E-DOCUMENTATION FOR TRANSPORT

TODAY

THE TOTAL TIME SPENT PROCESSING FREIGHT TRANSPORT INFORMATION IS ESTIMATED TODAY AT ALMOST 350 million hours/year.

IN THE FUTURE

THE DIGITAL EXCHANGE OF FREIGHT TRANSPORT INFORMATION WILL SAVE THE BUSINESS SECTOR AROUND 75 - 150 million hours/year.
The eECD project, an industry association initiative, backed by its members

eECD is a first multi-company, cross-functional, transactional supply chain collaboration platform
How does eECD process work? Each role provides information relevant for the process.

**eECD process steps**

**Transport data entry**
- Seller
- Loader
- Loading location
- Transport reference
- Product
- Loading date

**Equipment allocation**
- Equipment ID
- Potentially previous product information

**Cleaning**
- Lookup container
- Check previous load
- Container cleaning
- Optional driver signature on-glass
- Issuing of eECD

**Load acceptance and load completion**
- Check if eECD is acceptable (confirm or reject) and report rejections to dispatcher
- Confirm loading after completion (which invalidates eECD)
- Product MSDS (pdf)

**Transport company responsibility in the eECD process**

**Cleaning company**

**Shipper or tank storage operator**

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**eECD application integration**

**ECTA**

**essenscia**

**CEFCI**

**EFTCO**
What are the building blocks for e-ECD?

1. **Integrated e-ECD digital workflow**
2. **Ecosystem partnership mindset**
3. **Secure data sharing Platform**
4. **Trusted catalyst and facilitator**
5. **Governance Model**
   - Regulations
   - Legal framework
   - Financials
   - People & skills
The Journey - What was accomplished so far?

- **eECD Project charter**
  - 2016

- **eECD funding**
  - Dec ‘17

- **ECLIC entity**
  - Not-for-Profit
  - Mar ‘18

- **MVP Alfa version**
  - Jul ‘18

- **eECD Go live**
  - Nov ‘18

- **eECD platform selection**
  - mid ‘17

- **eECD kickoff**
  - eECD process
  - Jan ‘18

- **Vendor select**
  - April ‘18

- **Beta version**
  - Sep ‘18

- **New eECD subscriptions**
  - 2019
Chemical Logistics collaboration platform

✓ 360° eECD process visibility
✓ Integration into your own (ERP-TMS) systems
✓ Predictive process management
✓ Paperless

eECD data sharing & collaboration PLATFORM

API Layer

DATA ASSET Layer

Data Hub
(Chaining/Process Orchestration)

Digital eECD workflow & Shared data fields

Ingestion Layer

Subscriber Data Vault

Company DataVault

NxtPort

Network facilitation
Neutral governance board
Not for profit
No data monetization
Auditability
Data & company compliance

Data are made available on a “need to know” basis and following agreed eECD process workflow rules

Your company data
Your ownership
Your records

Data custodian role
✓ Data security
✓ Data quality
✓ Data regulations

Audit trail: which data, who, when

Chemical Logistics collaboration platform

Your company

Chemco

Your company

API

API

API

API

eECD API

eECD DataHub

Chemical Logistics collaboration platform

Your company

Chemco

Your company

eECD Enabling DATA (eg trsp data)
eECD Backend system integration options

How to avoid double inputs?

- Standalone GUI eECD application: Double screen next to own IT system requiring double input.
- Parametric URL to eECD: Link in own IT system to right screen eECD application (might partially reduce double input).
- API connection to the eECD platform: B2B Direct connection with your IT system to the eECD platform and/or integration within your own IT system.

3rd party software suppliers

Cleaning/TMS Integration or transport order info

Each company decides how to integrate at their own level, speed, cost & interests.

Level of integration
How to work as cleaning station with eECD application?

**Option 1**
Web application

- Part of eECD licence
- Allows quick Start up
- API documentation

**Option 2**
outsourced

- Check with your IT cleaning vendor
- LynX-Lucrasoft + German software vendors contacted
- Costs with 3rd party vendor

**Option 3**
API Integration

- Own IT integration & costs
- Central IT Support package available (800€/mday)
- Estimate: 1600€
Digital eECD

How to subscribe?
What does it cost?
How to subscribe and get eECD connected?

Gather info incl eECD subscription form
www.eclic.eu

Create your eECD admin account

Configure & prepare your organization

Submit your eECD registration form
email: info@eclic.eu

Pay your invoice to activate licence

Work & Clean smart together

3-6 weeks
**What Does it costs? eECD tariff table: ECLIC board July 2, 2018**

<table>
<thead>
<tr>
<th>eECD Tariff Table</th>
<th>START-UP FEE</th>
<th>Annual licence fee</th>
<th>price per ECD pack as of year 2,3,...n</th>
<th>connection cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Types &amp; sizes</td>
<td>ECD pack size</td>
<td>(ECD licence + ECD pack 0.20)</td>
<td></td>
<td>20 cents per eECD</td>
</tr>
<tr>
<td>sold per pack</td>
<td>YEAR1</td>
<td>YEAR 2,3,...n</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>eECD Tariff Table (excl VAT)</th>
<th>minimum ECD pack size (*3)</th>
<th>START-UP FEE (ECD licence + ECD pack 0.20)</th>
<th>Annual licence renewal fee (*4)</th>
<th>purchase price per ECD pack as of year 2,3,...n (*4)</th>
<th>connection cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Types &amp; sizes (*1)</td>
<td>sold per pack (20 eurocents per eECD)</td>
<td>YEAR1</td>
<td>YEAR 2,3,...n</td>
<td>20 cents per eECD</td>
<td></td>
</tr>
</tbody>
</table>

**Cleaning Company - Cleaner**

<table>
<thead>
<tr>
<th>Size</th>
<th>START-UP FEE</th>
<th>Annual licence renewal fee</th>
<th>Purchase price per ECD pack as of year 2,3,...n</th>
<th>Connection cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMALL &lt;=2500</td>
<td>1500</td>
<td>600</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>MEDIUM &gt;2500 and &lt;=15000</td>
<td>7500</td>
<td>1950</td>
<td>450</td>
<td>1500</td>
</tr>
<tr>
<td>LARGE &gt;15000 &lt;=30000</td>
<td>18000</td>
<td>4500</td>
<td>900</td>
<td>3600</td>
</tr>
<tr>
<td>XL &gt;30000</td>
<td>35000</td>
<td>8200</td>
<td>1200</td>
<td>7000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tank Storage Operator Co's</th>
<th>START-UP FEE</th>
<th>Annual licence renewal fee</th>
<th>Purchase price per ECD pack as of year 2,3,...n</th>
<th>Connection cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMALL &lt;=2500</td>
<td>1500</td>
<td>1200</td>
<td>900</td>
<td>300</td>
</tr>
<tr>
<td>MEDIUM &gt;2500 and &lt;=15000</td>
<td>7500</td>
<td>3900</td>
<td>2400</td>
<td>1500</td>
</tr>
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<td>LARGE &gt;15000 &lt;=30000</td>
<td>18000</td>
<td>7200</td>
<td>3600</td>
<td>3600</td>
</tr>
<tr>
<td>XL &gt;30000</td>
<td>35000</td>
<td>11800</td>
<td>4800</td>
<td>7000</td>
</tr>
</tbody>
</table>

ECLIC might change tariffs. Future plan is to reduce tariffs over time however every company will anyhow start with the same (startup fee) tariffs to avoid waiting behaviour is rewarded.
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Licence Type</th>
<th>Country</th>
<th>Location - City of active eECD licence</th>
<th>Licence Holder</th>
<th>Admin User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covestro NV</td>
<td>Seller-Loader</td>
<td>Belgium</td>
<td>Scheldelaan 420 - Haven 507 - 2040 Antwerp</td>
<td>Lieve De Jonge</td>
<td>Peggy Janssens</td>
</tr>
<tr>
<td>Cotac Europe GmbH</td>
<td>Cleaner</td>
<td>Belgium</td>
<td>Transcontinentaalweg 10-12 - Haven 200 - 2030 Antwerp</td>
<td>Erwig Sellaerts</td>
<td>Erwig Sellaerts</td>
</tr>
<tr>
<td>Haesaerts Intermodal NV</td>
<td>Equipment Operator</td>
<td>Netherlands</td>
<td>Keertberglaan - Haven 1054 - 2070 Zwijndrecht</td>
<td>Luc Haesaerts</td>
<td>Rudy Aerts</td>
</tr>
<tr>
<td>Evonik NV</td>
<td>Seller-Loader</td>
<td>Germany</td>
<td>Tijssenstunnel West 2040 Antwerp</td>
<td>Bart Wildoock</td>
<td>Tim Mertens</td>
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<tr>
<td>BASF SE</td>
<td>Seller-Loader</td>
<td>Belgium</td>
<td>Ludwigshafen, Lemförde and Antwerpen</td>
<td>Benny De L’Arbre</td>
<td>Bert Lamberschews</td>
</tr>
<tr>
<td>Heyer GmbH</td>
<td>Equipment Operator</td>
<td>Germany</td>
<td>Wendenstrasse 414 - 20537 Hamburg</td>
<td>Leon de Graaff</td>
<td>Robert Zwetsloot</td>
</tr>
<tr>
<td>ADPO NV</td>
<td>Equipment Operator</td>
<td>Belgium</td>
<td>Steenlandlaan 3, 9130 Kallo</td>
<td>Joris Goethals</td>
<td>Joris Goethals</td>
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<tr>
<td>ADPO NV</td>
<td>Equipment Operator</td>
<td>Belgium</td>
<td>LLH (Liefkenshoek Logistic Hub), Geslacht, 9130 K allo</td>
<td>Joris Goethals</td>
<td>Joris Goethals</td>
</tr>
<tr>
<td>HTC Colombus NV</td>
<td>Cleaner</td>
<td>Belgium</td>
<td>Scheldelaan - Haven 373 , 2030 Antwerp</td>
<td>Jochen Van Hoydonck</td>
<td>Jochen Van Hoydonck</td>
</tr>
<tr>
<td>HTC TankCleaning bv</td>
<td>Cleaner</td>
<td>Belgium</td>
<td>Moerbroek 10, 2030 Antwerpen</td>
<td>Jochen Van Hoydonck</td>
<td>Jochen Van Hoydonck</td>
</tr>
<tr>
<td>HTC Geneffe SA</td>
<td>Cleaner</td>
<td>Belgium</td>
<td>Chaussée de Nivelles, 7170 Manage</td>
<td>Jochen Van Hoydonck</td>
<td>Jochen Van Hoydonck</td>
</tr>
<tr>
<td>Gentenaar Cleaning</td>
<td>Cleaner</td>
<td>Netherlands</td>
<td>Middenweg 26a, 4782 PM, Moerdiijk</td>
<td>Peter Bouman</td>
<td>Peter Bouman</td>
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<tr>
<td>Van Moer Cleaning &amp; Repair</td>
<td>Cleaner</td>
<td>Belgium</td>
<td>Villashoolstraat 11 - Haven 1054 - 2070 Zwijndrecht</td>
<td>Peter Everaerts</td>
<td>Peter Everaerts</td>
</tr>
<tr>
<td>Bertschi AG</td>
<td>Equipment Operator</td>
<td>Switzerland</td>
<td>Hutmattestrasse 22 CH-5724 Duerrenaeusch</td>
<td>Joerg Berner</td>
<td>Joerg Berner</td>
</tr>
<tr>
<td>Peter Hempt GmbH</td>
<td>Cleaner</td>
<td>Germany</td>
<td>Langgarrison 56 67547 Worms</td>
<td>Enrico Finelli</td>
<td>Nils Rossman</td>
</tr>
<tr>
<td>Kube &amp; Kubenz GmbH &amp; CoKG</td>
<td>Equipment Operator</td>
<td>Germany</td>
<td>Nagelsweg 39, 20097 Hamburg</td>
<td>Michael Kubenz</td>
<td>Martin Copray</td>
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</tbody>
</table>
# eECD Path forward

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Pre-study</td>
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<td>eECD Business Case &amp; Funding approval</td>
<td>04.04.2019</td>
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<tr>
<td>Building</td>
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<td>eECD Pilot Prototype &amp; demo (20 co’s)</td>
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<tr>
<td>Production Go Live BE-NL-DE</td>
<td></td>
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<td></td>
<td></td>
<td>Production go live of the eECD application</td>
<td>eECD integration and scale up</td>
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<tr>
<td>Food &amp; feed</td>
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<td></td>
<td></td>
<td>Food pre-study, funding, prototype</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU Launch &amp; Support</td>
<td></td>
<td></td>
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<td></td>
<td>Start Roll out at EU level &gt; 600 companies</td>
<td></td>
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</tr>
</tbody>
</table>
WORK SMARTER TOGETHER IN CHEMICAL LOGISTICS

“one Use Case at a time”

Gather info including eECD subscription form
www.eclic.eu

Contact: info@eclic.eu