

ECLIC intro

Seamless digital collaboration within Chemical Logistics

Neutral – Interoperable - Zero Profit - Respect for data – Industry driven

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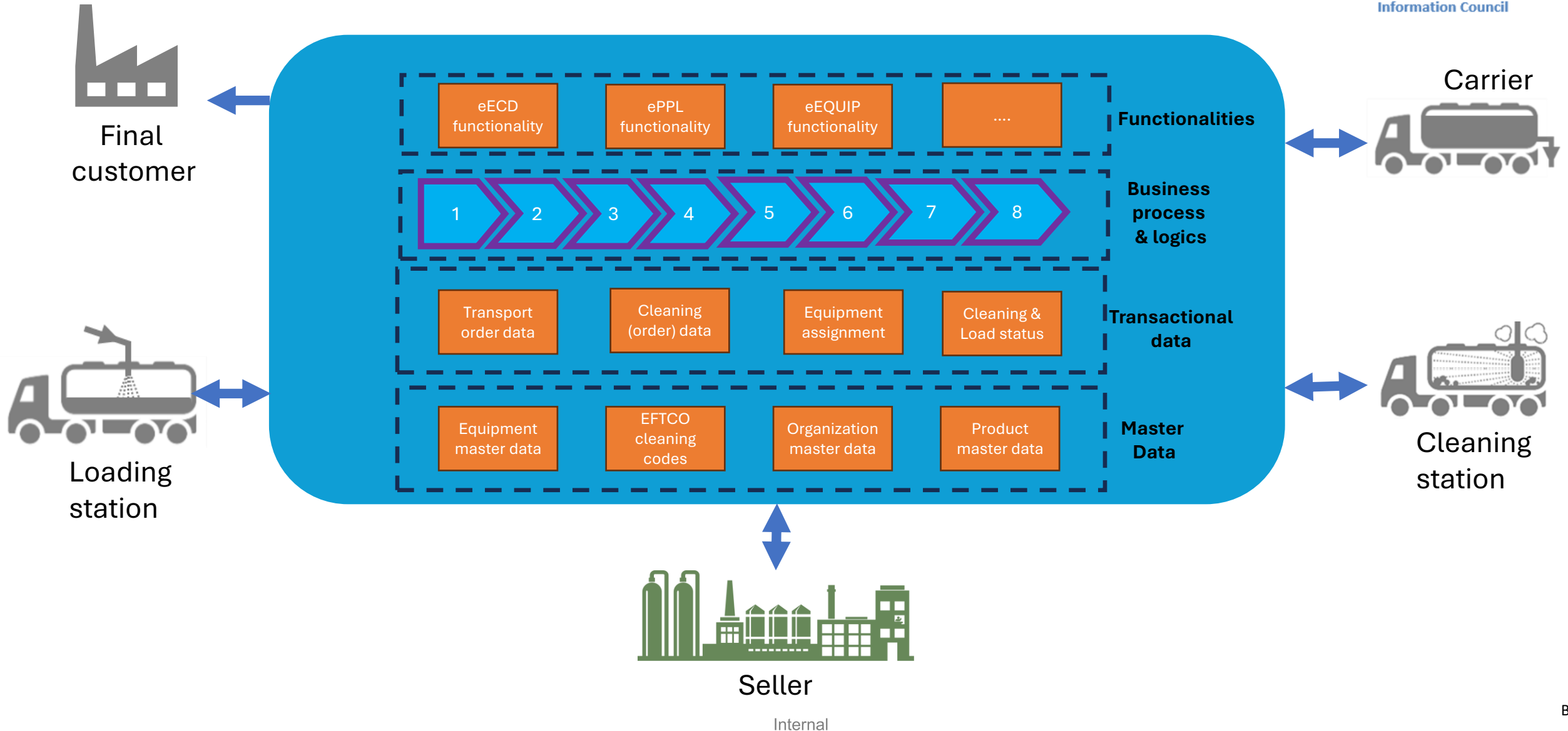
www.eclic.eu

April 2026

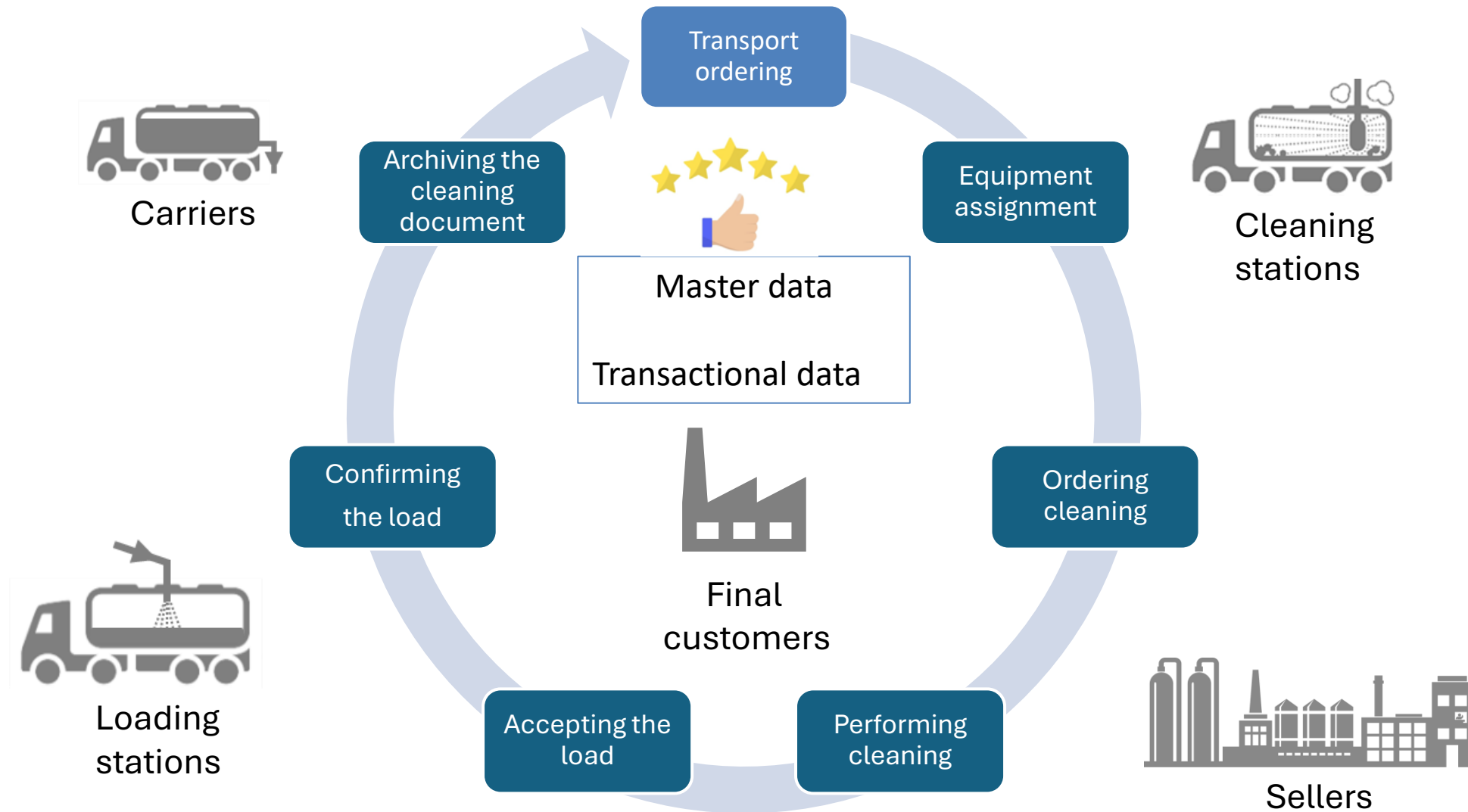
ECLIC eECD Project

On boarding steps for an individual company

ECLIC Digital process framework in Tank Cleaning



FROM: Paper-based Logistics TO: data-driven service offering



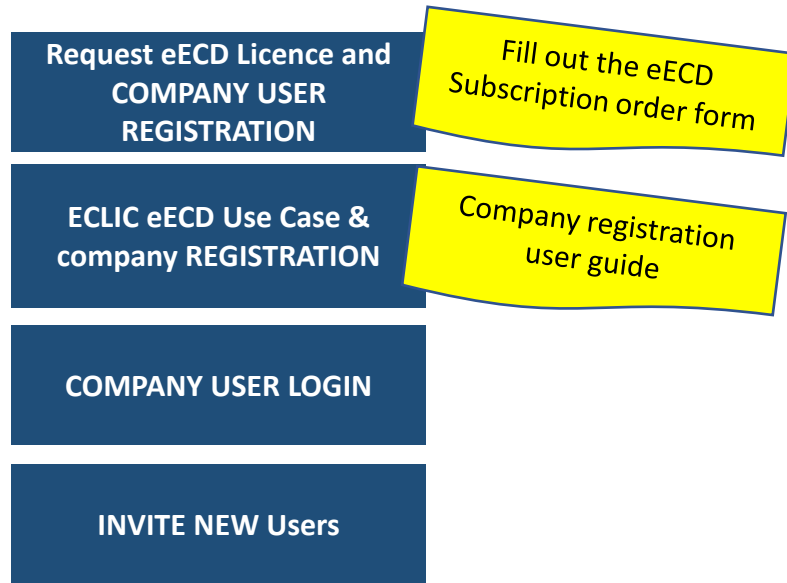
eECD "On Boarding" steps within a chemical cluster

A. ECLIC eECD "On Boarding" at community level



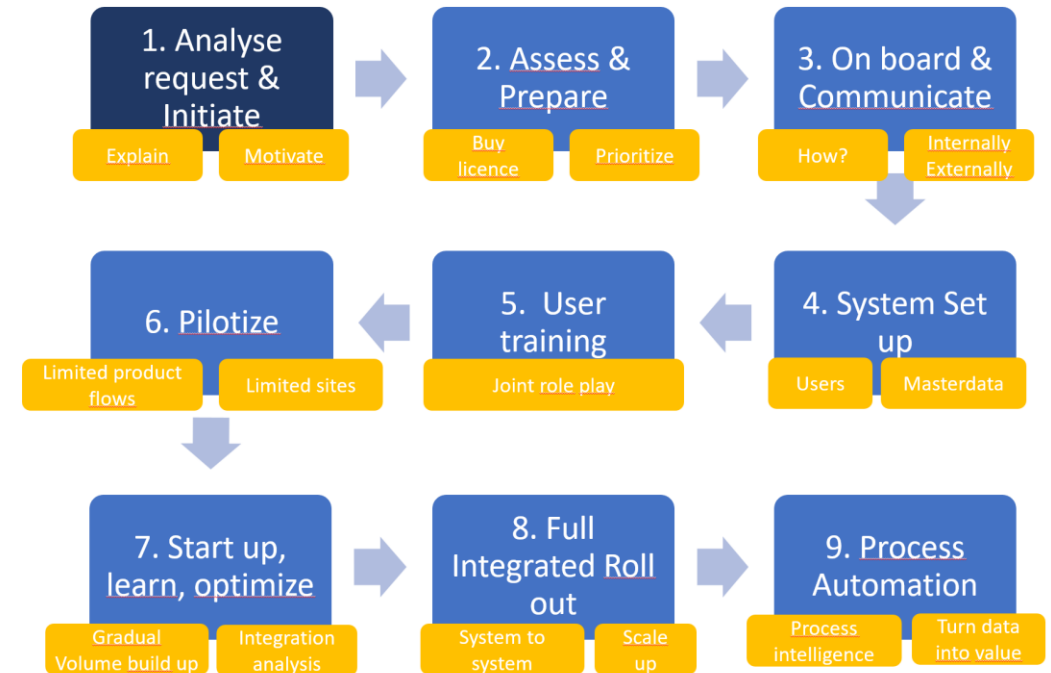
B. ECLIC eECD Use case "on boarding" at individual company level

ECLIC eECD Use Case REGISTRATION in Production



eECD Licenced companies can request free access to the virtual eECD test accounts

eECD SYSTEM SET UP in Production (PRD)



ECLIC Project on boarding steps



Initiate

1. Explanation of initiative

- Comprehend project motivation
- Understand scope

2. Get insight in high-level process

- Recognize value & benefits
- Understand the eECD case

3. Align on next steps and prepare phases, timeline, scope

ECLIC Project on boarding steps



Prepare

1. Request an eECD license

- subscription by company in production and staging/test environments
- Set up accounts in PRD and STG
- Check virtual company access to run own scenario's

2. Activate eECD licence

- Terms and Conditions acceptance
- Activation by ECLIC

3. Organize project internally

- Indicate project responsible
- Initiate IT work schedule

ECLIC Project on boarding steps



Communicate

1. Internally

- Inform stakeholders
- Explain change to core users

2. Externally

- Inform your shipper/carrier/cleaning companies
 - Motivate to “on board” them
 - Prepare communication letter
-
- Check with ECLIC on “Chemical Cluster alignment” to create community synergies

ECLIC Project on boarding steps



System set up in PRD and STG

1. Set-up of platform access

- New User setup – Roles
- Master data setup
- Carrier set up ingestion channel

2. Setup API-integration versus eECD Portal

- Master data
- Transactional data
- Check for Integration budgets

ECLIC Project on boarding steps



User Training

1. Train people internally

- Explain new process steps
- Testing in test environment

2. Joint role play

- Dry runs with user of all parties
- Face to face meetings
- Create internal GATE innovations and automations

ECLIC Project on boarding steps

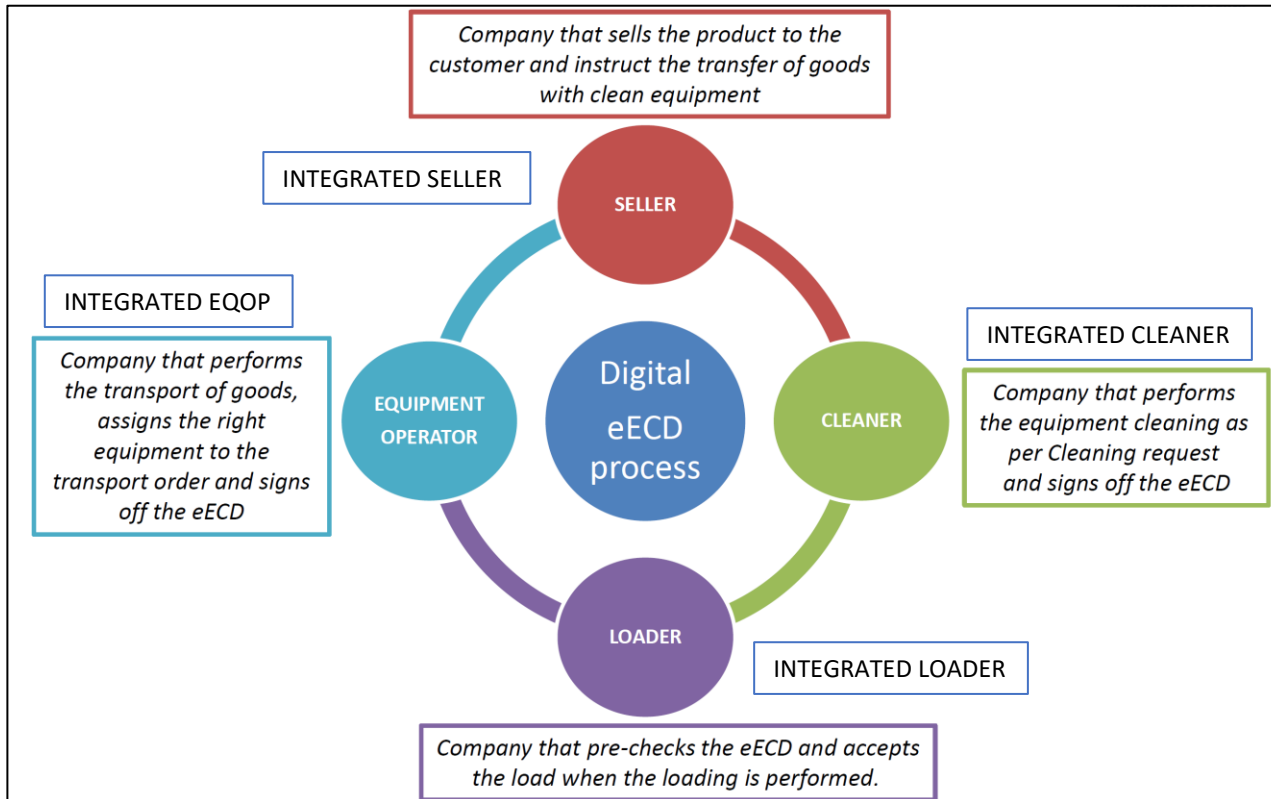


Pilotize, start up & optimize

1. First test by using the web eECD portal and with transport order ingestion channel
2. Extended test with limited number of transports and cleaning stations
2. After review number of transports can be built up in function of project scope and roll out

The eECD roles and ECLIC system environments

INTEGRATED WAY of Working or **NON INTEGRATED** way of working (=Via eECD Portal)



ECLIC Production system

Real life company data



ECLIC Test or Staging system

virtual test companies & products

eECD User roles

An overview of the ECLIC eECD User roles is summarized in the table below:


	Product Manager	Loading Operator	Viewer	Equipment Manager	Dispatcher	Location Manager	Cleaning operator	Admin
Seller	✓				✓			✓
Loader		✓	✓					✓
Equipment operator			✓	✓				✓
Cleaner					✓	✓	✓	✓

You have only 1 central eECD company administrator (at company registration) which subsequently can invite different admin users per company subsidiary/locations. Each eECD admin can create and maintain new users with specific roles

User Role	Description
eECD Admin or User Administrator	<ul style="list-style-type: none"> ✓ Manage & Invites new eECD users based upon an email address ✓ Assigns/links the specific eECD User Roles to each user ✓ Manage and views the overall admin screen settings ✓ Keeps an overview of eECD licence and credit packs and can buy new eECD credits ✓ The eECD admin role can fulfill all eECD user roles within the defined company roles. ✓ Specific for the Cleaner: the eECD cleaner admin role can add/create extra cleaning locations under its cleaning company and can/should assign and maintain new users to each newly created cleaning location. ✓ Note: Multiple eECD admin users can be created within one company organization
Product Manager	<ul style="list-style-type: none"> ✓ Manage the product master data and SDS safety data sheets
Location Manager Seller	<ul style="list-style-type: none"> ✓ This role is linked to the Seller who is managing the (integrated) loading locations table ✓ Assigns loading locations from Loaders to specific products
Loading Operator	<ul style="list-style-type: none"> ✓ Performs the loading actions by accepting and completing the required loading documents
Viewer	<ul style="list-style-type: none"> ✓ Role is restricted to the loader organizational role and can only consult eECD booklet documents ✓ This role can be given to a third party freight forwarder (who does not own/manage equipment and only does transport planning on behalf of the Seller) to view data/loads only.

Equipment Manager	<ul style="list-style-type: none"> ✓ Manage and maintains the equipment master data
Dispatcher	<ul style="list-style-type: none"> ✓ Updates the previous load info or previous cargo info of each equipment (compartment) within the eECD equipment booklet ✓ Assigns the "fit to use" equipment to the transport order received from the Seller ✓ Initiates an EFTCO cleaning order or cleaning request of a specific equipment to the cleaner-cleaning station ✓ Issues and submit an ePPL document to the Loader in case the same product is loaded without cleaning action in between loadings
Location Manager Cleaner	<ul style="list-style-type: none"> ✓ Adds/creates extra cleaning locations under its cleaning company ✓ Assigns and maintains new users to each newly created cleaning location before the cleaning station is active for that user.
Cleaning Operator	<ul style="list-style-type: none"> ✓ Performs the cleaning of the equipment in line with the cleaning instructions from the carrier ✓ Issues and finalizes the electronic EFTCO cleaning document ✓ Hands over the eECD for driver sign off ✓ In case the carrier/Equipment Operator has no eECD licence, this role is able to initiate an eECD by creating a One Time Equipment booklet and by adding the previous load info. ✓ Note: Cleaning Operators are best linked to at least one Cleaning Location to define their current location and to avoid them having to select their default location from a location dropdown on every cleaning action. However, one single Cleaning Operator can be linked to multiple cleaning locations in case this would be required.

New company registration process, invite new users and user login

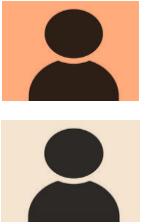


1. My portal
<https://myportal.lifesciencedigihub.eu>

Company admin user



- ✓ “One Time” Company Registration on NxtPort by (initial) **company admin user** and subscribes to **ECLIC community**
- ✓ Invites new eECD (admin) users



2. My eECD portal
<https://myeecdportal.lifesciencedigihub.eu>

eECD admin user(s) for Location X, Y, Z
(user with “User administrator” role)



- ✓ *Accept user invite received by email to join the company*
- ✓ *the eECD admin can invite new eECD Users, grant/update user role(s) and set preferred language & timezone*



3. My eECD application
<https://ecllic.lifesciencedigihub.eu>

eECD users - Operators

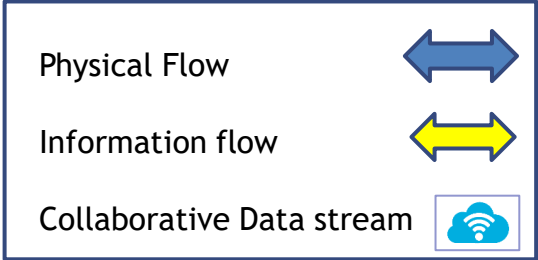
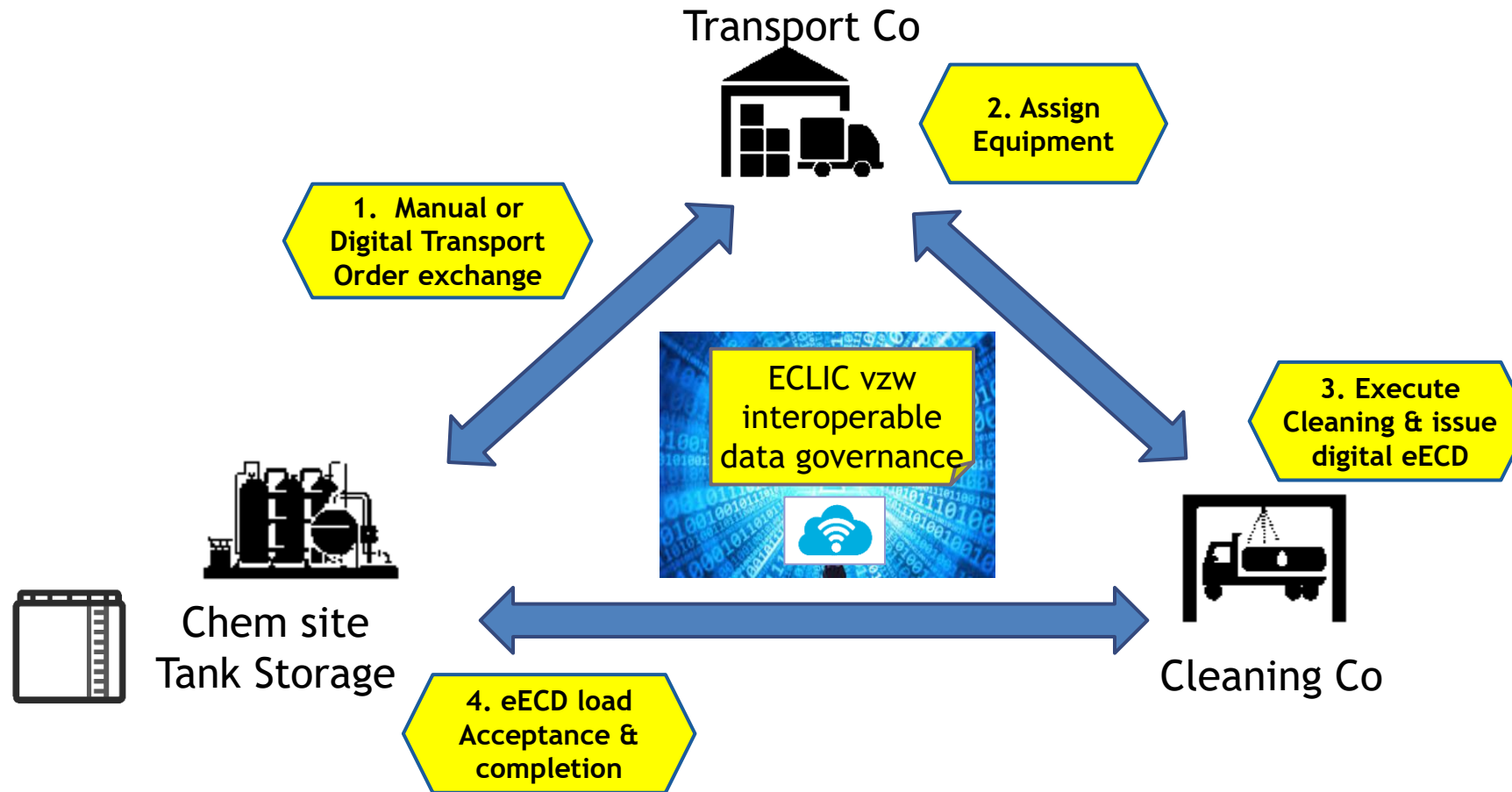


- ✓ *New users to accept invite and join the company*
- ✓ *Login into the eECD application*

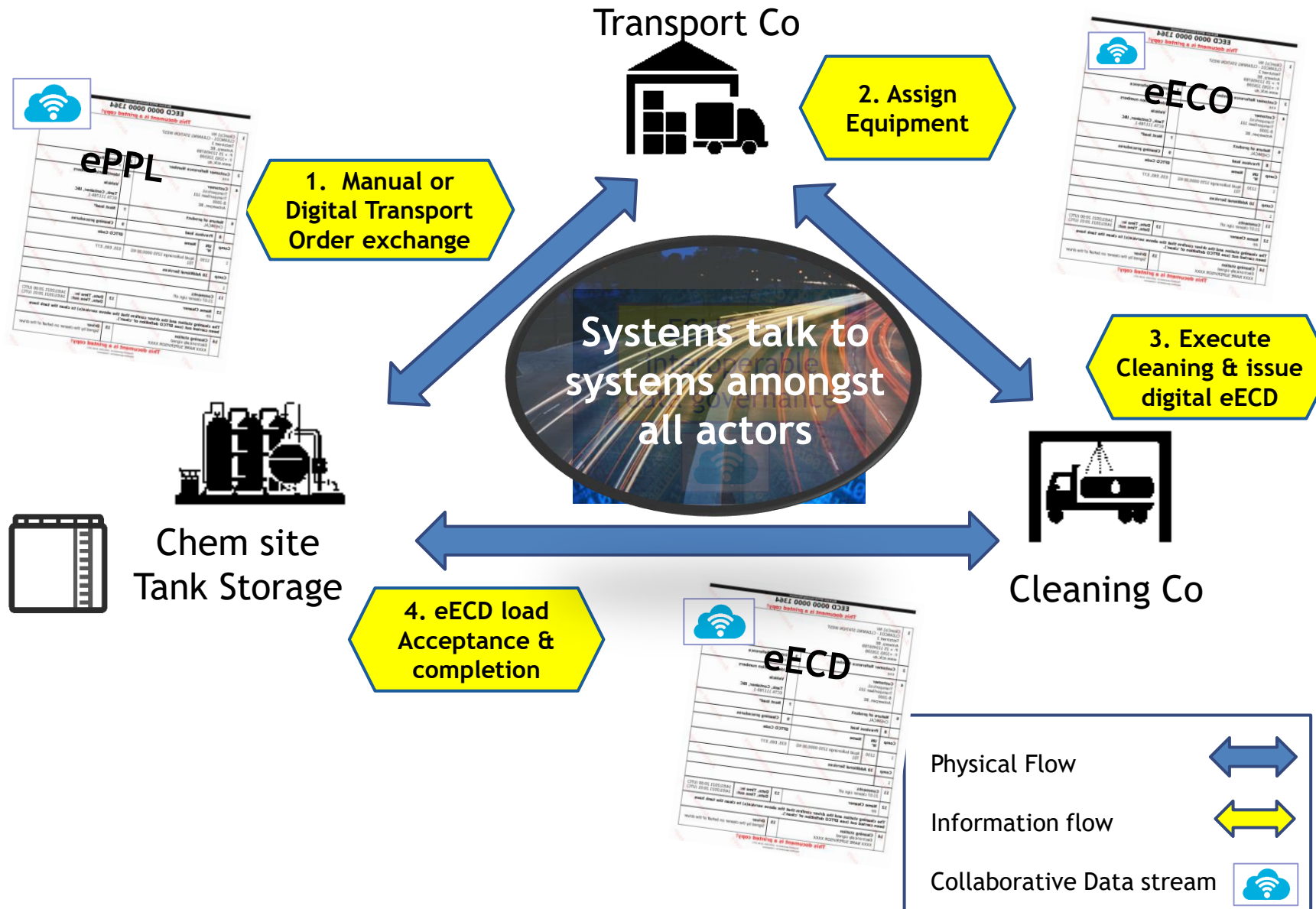
eECD Process

(once you have a valid eECD licence)

How does the digital eECD process work today?



How does the digital eECD process work today?



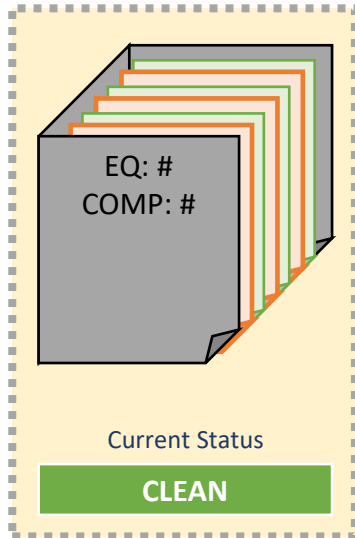
eECD “end to end” process description

A full description of the eECD industry process can be found in the ECTA best practice guideline on page 9-15 paragraph “2.2 the eECD document”

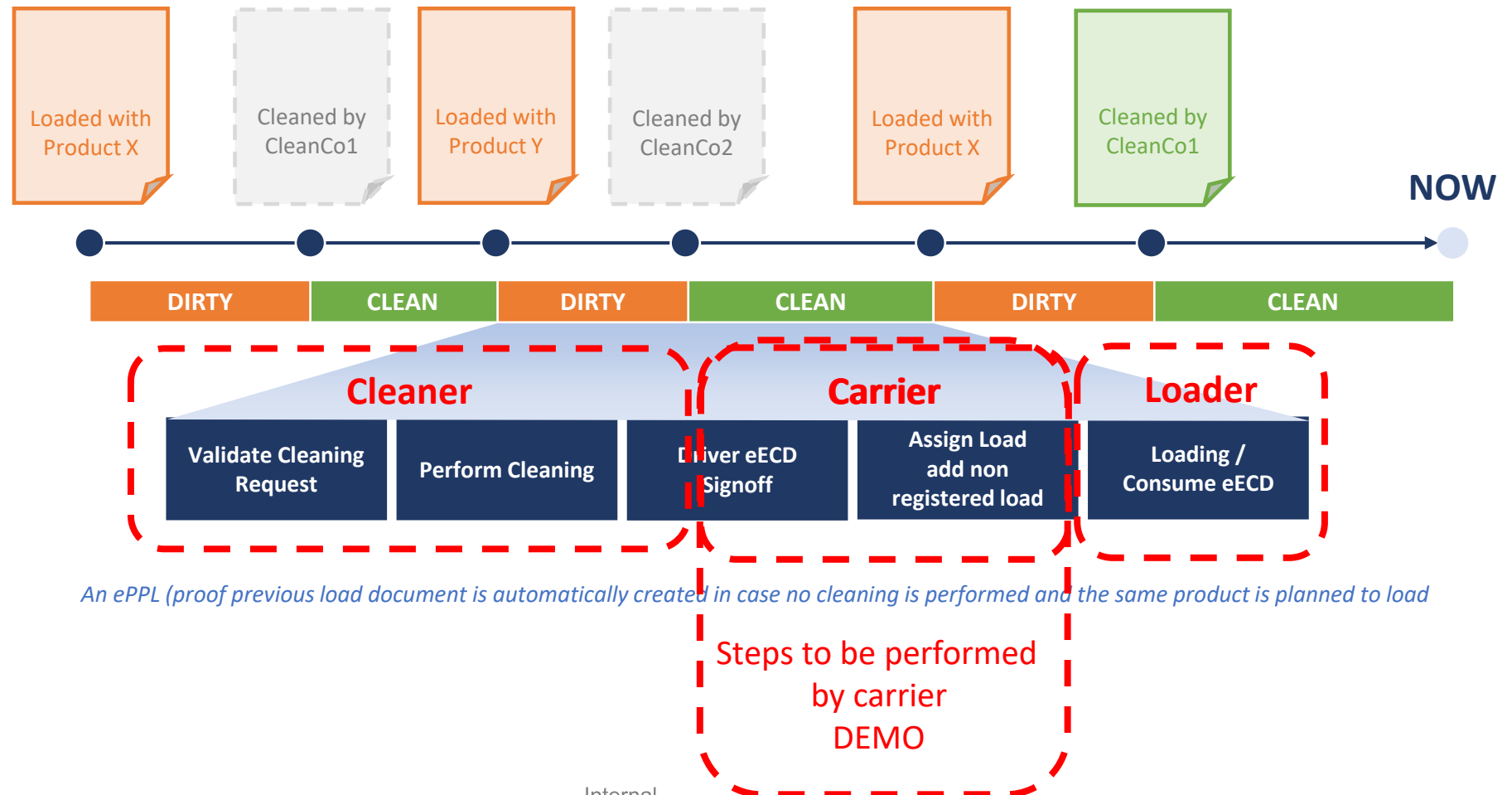
https://ecta.com/wp-content/uploads/2025/07/ECTA-Best-Practice-Guideline-digital-documents-eCMR-and-eECD-version-1_1-4July-2025.pdf

Data-driven eECD-ePPL process in PRACTICE

Equipment booklet

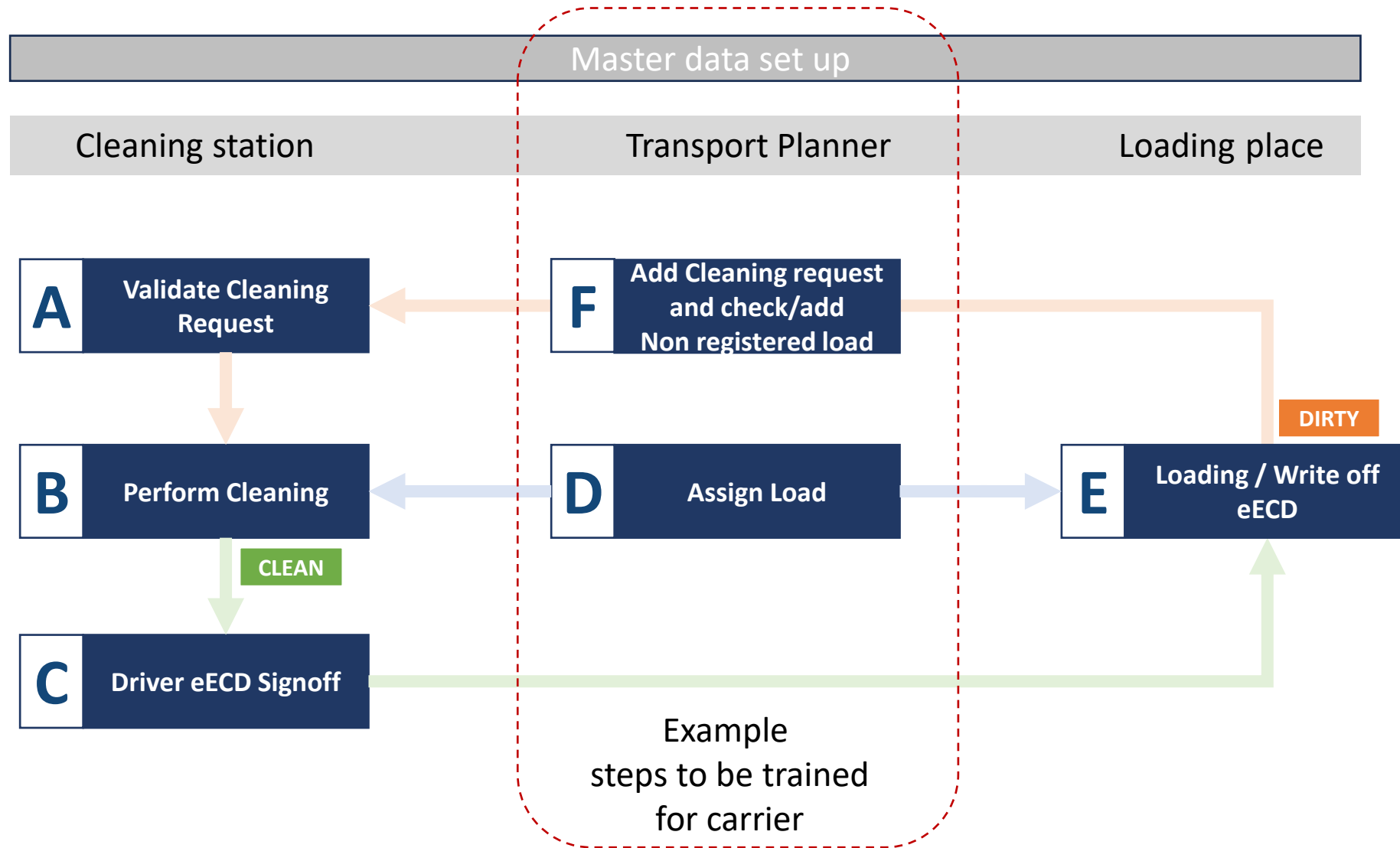


This sequence repeats itself for every subsequent cleaning/loading cycle.



An ePPL (proof previous load document is automatically created in case no cleaning is performed and the same product is planned to load

Key eECD process interactions to be performed



eECD application

eECD application example screenshots

Movies available in documentation center

<https://documentation.nxtport.com/eclic/>

Carrier demo slides – User navigation

User Menu

☰
ECLIC e-ECD

Modules

- ⚙️ Admin
- 🔦 Equipment
- 🔦 Cleaning Requests
- 🔦 Archive EECD
- 🔦 Archive EPPL
- 🔦 ePPL Archive Download
- 🔦 eECD Archive Download

LOAD EQUIPMENT CSV
ASSIGN LOAD
ADD NON-REGISTERED LOAD
REQUEST CLEANING

EQUIPMENT N°	EQUIPMENT TYPE	COMPARTMENT CLEAN STATE
1 ECT 111	TANKTRAILER	1
1 ECT 666	TANKTRAILER	1
ECTA 000111-1	TANKCONTAINER	1
ECTA 000333-1	TANKCONTAINER	1
ECTA 001111-1	TANKCONTAINER	1
ECTA 020725-1	TANKCONTAINER	1
ECTA050525-1	TANKCONTAINER	1
ECTA 060525-1	TANKCONTAINER	1
ECTA 1111	TANKCONTAINER	1 2
ECTA 111111-1	TANKCONTAINER	1

User profile + help

👤
Admin Transportco1

- 🚪 Sign out
- 🔍 ? ECLIC user support ticket
- ⚙️ My ECLIC eECD Console
- 📄 ECLIC Documentation

Roles

- 🔦 Admin

Licenses

- 🔦 Equipment Operator

v6.0.83





















Equipment Menu – overview screen of carrier equipments

ECLIC e-ECD Admin Transportco1

Equipment

+ ADD EQUIPMENT UPLOAD CSV DOWNLOAD EQUIPMENT CSV ASSIGN LOAD ADD NON-REGISTERED LOAD REQUEST CLEANING

ECTA

EQUIPMENT CODE ^	EQUIPMENT N°	EQUIPMENT TYPE	COMPARTMENT CLEAN STATE	
ECTA code 123	1 ECT 111	TANKTRAILER	1	 
ECTA - 1 ECT 666	1 ECT 666	TANKTRAILER	1	 
	ECTA 000111-1	TANKCONTAINER	1	 
	ECTA 000333-1	TANKCONTAINER	1	 
ECTA	ECTA 001111-1	TANKCONTAINER	1	 
	ECTA 020725-1	TANKCONTAINER	1	 
	ECTA050525-1	TANKCONTAINER	1	 
	ECTA 060525-1	TANKCONTAINER	1	 
	ECTA 1111	TANKCONTAINER	1 2	 
	ECTA 111111-1	TANKCONTAINER	1	 

Set up or upload of equipment master data as per ECTA equipment industry best practice data standards

← Equipment Details: TANKTRAILER

Equipment type: Trailer

License plate: 1 ECT 666 License plate country code: AT

Internal EquipmentCode: ECTA - 1 ECT 666

Subgroup:

Number of manholes: 2

CompartmentID	Number of baffles	Volume (liters)
1	3	23000

+ ADD COMPARTMENT

Equipment codification

WeightInfo

TareWeight: 111

MaxNetWeight: 123

MaxWeight: 20020

Product Type: Gas

ADR tank code

ADR tank type	Minimum calculation pressure	Openings	SafetyValvesDevices
L	1.2	B	V

ADR Inspection dates

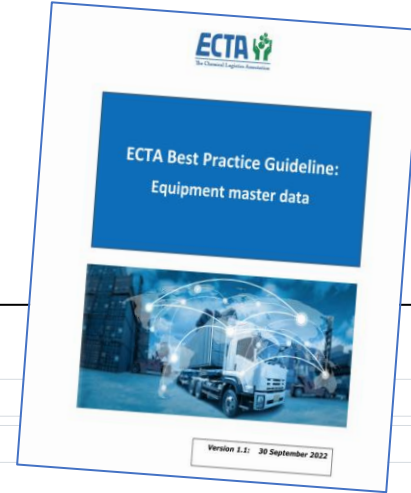
ADR Last inspection date: 19/06/2025

Last inspection date of ADR pressure test: 27/06/2025

ADR Special provisions

Special provisions TE: TE4

Special provisions TC: TC5



ADR vehicle for tank carriage

FL (flammable) expiry date: 09/02/2027

AT (atmospheric) expiry date: 18/06/2026

UN portable Tank (ISO)

Validity examination certification for portable t...

Inspections

Convention for save containers

Next examination date (PES):

ACEP last inspection date:

OTHE-Other

Main inspection date:

Sp validity:

SAVE CANCEL

Add “non registered load” to an equipment in case previous load is missing in equipment booklet









← ECLIC e-ECD Admin Transportco1

TANKCONTAINER i
Container n°: ECTA
020725-1

Compartment: 1 SAVE

New Load NonRegistered

Compartment 1 Clean
last load : 2222 - Liquid Bulk Red 1225
last cleaning: 3 months ago
Volume: 20000
Baffles: 3

-  Load PLND-PLANNED
09-11-2025 23:59
-  eECD SIGN-SIGNED OFF
05-11-2025 12:41
-  Load CNCL-CANCELLED
05-11-2025 12:39
-  ePPL CNCL-CANCELLED
05-11-2025 12:39
-  Load COMP-COMPLETED
04-07-2025 13:36
-  eECD CONSUMED
04-07-2025 13:36
-  Load COMP-COMPLETED
02-07-2025 14:16
-  eECD CONSUMED
02-07-2025 14:14

Add non-registered load

Loading date:

Product:

CAS-number:

EC-number:

Chemical name (IUPAC):

UN Number:

Transport reference:

Carrier reference:

Comment:

Assign load: Manual and Integrated

← ECLIC e-ECD
Admin Transportco1

TANKTRAILER ⓘ
License plate n°:
1 ECT 111

Compartment 1 Clean
last load : 2222 - 222 Liquid brown - bulk test
last cleaning:
Volume: 25000
Baffles: 1

Compartment: 1

New Load PLND-Planned

- Load CNCL-CANCELLED
03-02-2026 22:04
- eECD CNCL-CANCELLED
08-02-2025 09:01
- Load CNCL-CANCELLED
08-02-2025 09:01
- eECD SIGN-SIGNED OFF
25-11-2024 14:31
- Load CNCL-CANCELLED
17-11-2024 10:58
- Load COMP-COMPLETED
10-09-2024 12:18
- eECD CONSUMED
10-09-2024 12:18
- Load CNCL-CANCELLED
05-10-2023 09:17
- Load COMP-COMPLETED
12-07-2023 08:57

ASSIGN
Manual

MANUAL
INTEGRATED

Assign load

Loading location:

Transport Information

Transport reference: *

Delivery reference:

Line item:

Loading date:

Requested accompanying electronic document

- Use existing eECD, eECO
- Create new ePPL - Proof previous load
- Create new eECO - Request a cleaning

Choose eECD, ePPL or eECO

Assign load: Two ways

TANKTRAILER ⓘ
License plate n°:
1 ECT 111

Compartment 1 Clean
last load : 2222 - 222 Liquid brown - bulk test ✓
last cleaning:
Volume: 25000
Baffles: 1

Compartment: 1

New Load		PLND-Planned
Load	03-02-2026 22:04	CNCL-CANCELLED
eECD	08-02-2025 09:01	CNCL-CANCELLED
Load	08-02-2025 09:01	CNCL-CANCELLED
eECD	25-11-2024 14:31	SIGN-SIGNED OFF
Load	17-11-2024 10:58	CNCL-CANCELLED
Load	10-09-2024 12:18	COMP-COMPLETED

ASSIGN

Integrated

MANUAL

INTEGRATED

Assign load

SEARCH ORDER

Requested accompanying electronic document

- Use existing eECD, eECO
- Create new ePPL - Proof previous load
- Create new eECO - Request a cleaning

Choose eECD, ePPL or eECO

Optional use of an EFTCO cleaning order or eECO

←
Electronic EFTCO cleaning order request - eECO

STEP 1: Mandatory: search a cleaner

🔍 CleanCo1 NV

STEP 2: Optional: select cleaning station

4. Cleaning station Tarragona ▾

Issue DATE 03/02/2026 22:13	Estimated time of arrival
Customer nr ref	Estimated time of pickup

SAFETY INFO

Tank under pressure Nitrogen in tank Solid no pressure

Unaccompanied cleaning Polymer cleaning

Compartment 1

	EFTCO Code	EFTCO Code Description
<input type="checkbox"/>	E35	Hot air drying
<input type="checkbox"/>	E40	Dip tube
<input type="checkbox"/>	E50	Hose cleaning
<input type="checkbox"/>	E51	Cleaning of hose box
<input type="checkbox"/>	E55	Cleaning of ancillaries
<input type="checkbox"/>	E60	Cleaning of airlines
<input type="checkbox"/>	P26	Kosher procedures

	EFTCO Code	EFTCO Code Description
<input type="checkbox"/>	E65	Pump cleaning
<input type="checkbox"/>	E66	Cleaning of filter
<input type="checkbox"/>	E90	Sealing
<input type="checkbox"/>	E95	Livery
<input type="checkbox"/>	E62	ATP measurement
<input type="checkbox"/>	P01	Cold water spin

	EFTCO Code	EFTCO Code Description
<input type="checkbox"/>	P27	Halal procedure
<input type="checkbox"/>	P30	Drying
<input type="checkbox"/>	P50	Sanitisation with chemicals
<input type="checkbox"/>	P51	Sanitisation with steam
<input type="checkbox"/>	T20	pH neutral
<input type="checkbox"/>	T90	Vacuum test

Cleaning agent request

Other cleaning request

SAVE AND SEND REQUEST
BACK

This cleaning order is sent automatically to the selected cleaning station