



# Digital Product Passport (DPP)

## CREATION & MANAGEMENT

Automated creation and management of Digital Product Passports.  
Eliminating data silos to establish a reliable single source of  
truth for product compliance.

# The Digital Product Passport (DPP): The 2027 Regulatory Mandate

The shift toward a circular economy is no longer a future concept—it is a hard regulatory deadline. The EU Ecodesign for Sustainable Products Regulation (ESPR) and broader Green Deal frameworks are making comprehensive, end-to-end product tracking an unavoidable legal requirement. If your products are in the EU market, preparation is non-negotiable.

## The 2027 Deadline and Expanding Scope

The regulations aim to radically improve EU products' circularity, energy performance, and environmental sustainability. The first DPPs will legally be in force by 2027.

While the battery industry is the first sector obligated to comply under standalone legislation, the mandate is rapidly expanding. Upcoming product group-specific delegated acts will enforce DPPs across a massive scope of industries, including:

- Textiles, Furniture, Mattresses, and Tires
- Steel, Aluminum, and ICT
- Energy-Related Products
- Construction, Detergents, and Toys

## Products in scope for DPPs

### According the ESPR working plan from April '25



**Textile**



**Furniture**



**Mattresses**



**Tires**



**Steel**



**Aluminum**



**ICT**



**Energy Related Products**

### Exemplary standalone legislations referring to DPP



**Construction**



**Detergents**



**Toys**



**Batteries**

## Built on Cross-Industry Standards

Coac ensures you meet these upcoming legal frameworks. Furthermore, as an active member of the Chem-X Consortium, we actively support the establishment of secure, cross-industry data ecosystems. Our infrastructure is optimally aligned with standards like Manufacturing-X, ensuring the practical implementation of these data spaces and a seamless flow of data from DMP to the final, compliant DPP.

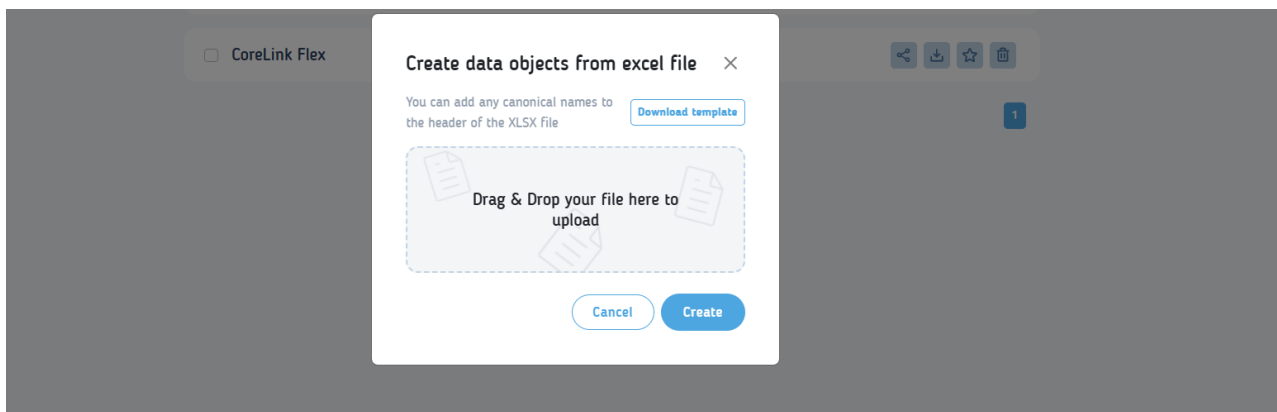
## Platform Overview

Coac provides a platform for the automated creation and management of Digital Product Passports (DPPs). By consolidating data from various sources into a central hub, the system eliminates data silos and creates a reliable single source of truth for product compliance.

## Agnostic Data Integration

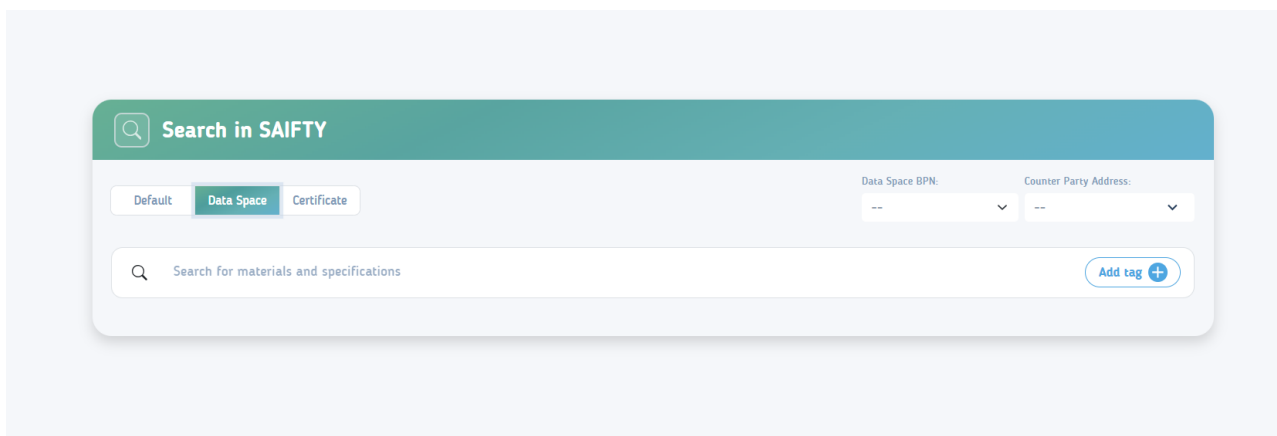
The architecture processes information data-agnostically and transforms it into structured product passports. The technological foundation is built on our platform, SAIFTY. The architecture processes information agnostically and transforms it into structured product passports:

- **Document Processing:** Automated extraction of relevant data from Safety Data Sheets (SDS), technical data sheets, and various other document types.
- **Structured Uploads:** Direct Excel uploads for the seamless integration of existing datasets.



## Secure Data Exchange via Data Spaces

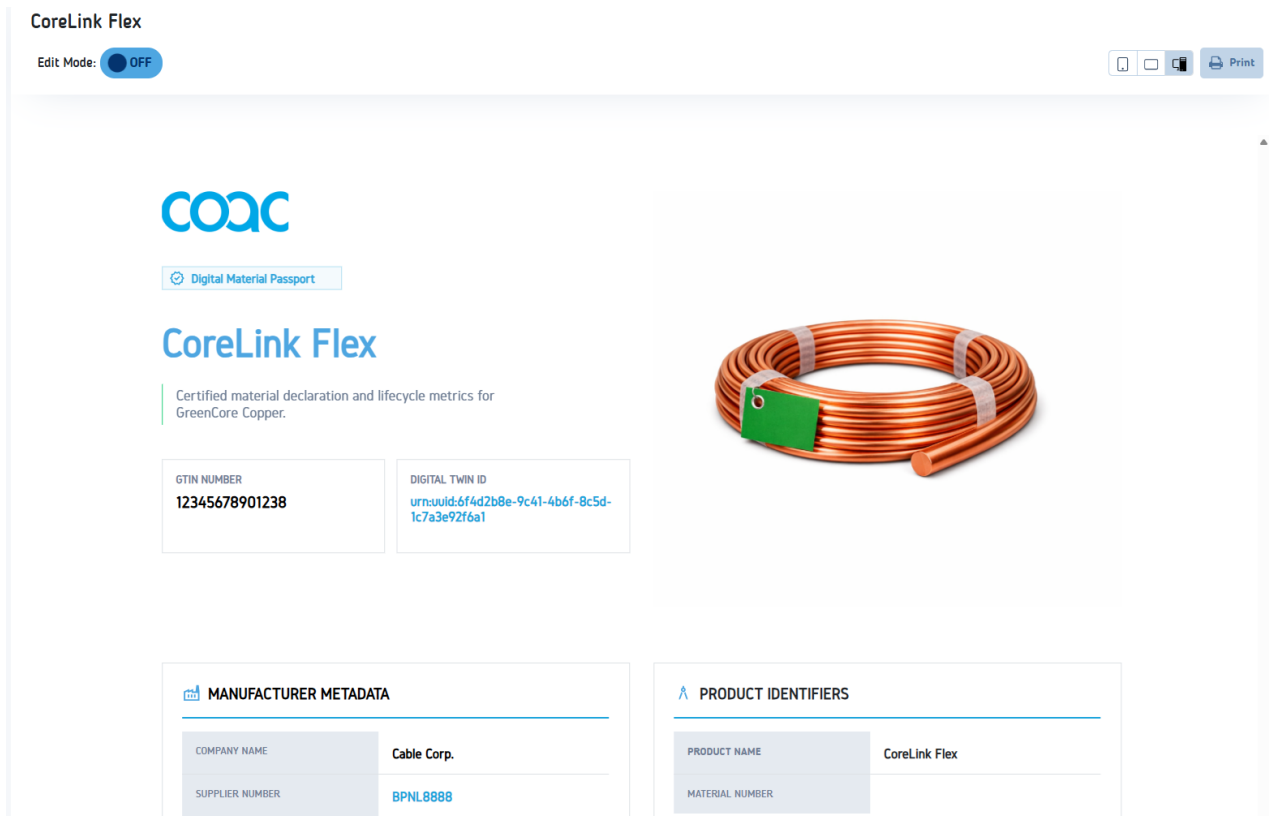
We ensure standardized data exchange through decentralized and secure data spaces. This forms the basis for automatically generating DPPs from distributed sources and sharing the final product passports smoothly and legally with suppliers, customers, and partners across the entire value chain.



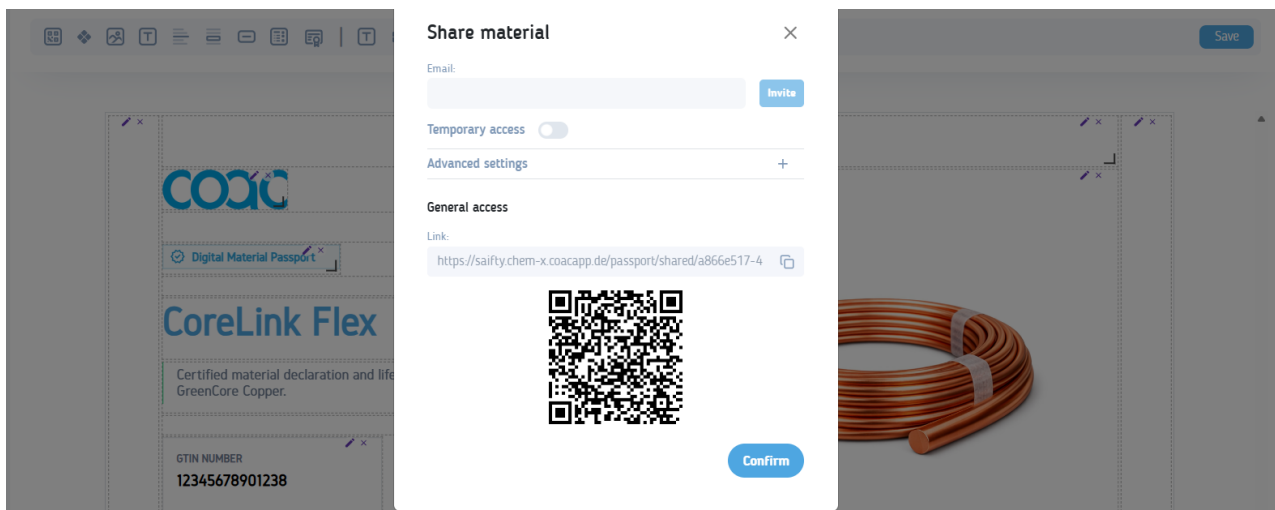
# Automated Publication & Dynamic Landing Pages

Automated creation of custom landing pages based on pre-built templates. To deploy the DPP, SAIFTY offers the automated creation of customized landing pages.

- **Dynamic Data Adaptation:** The content of the landing page automatically adapts in real time to the specific parameters and data points of the respective product passport.



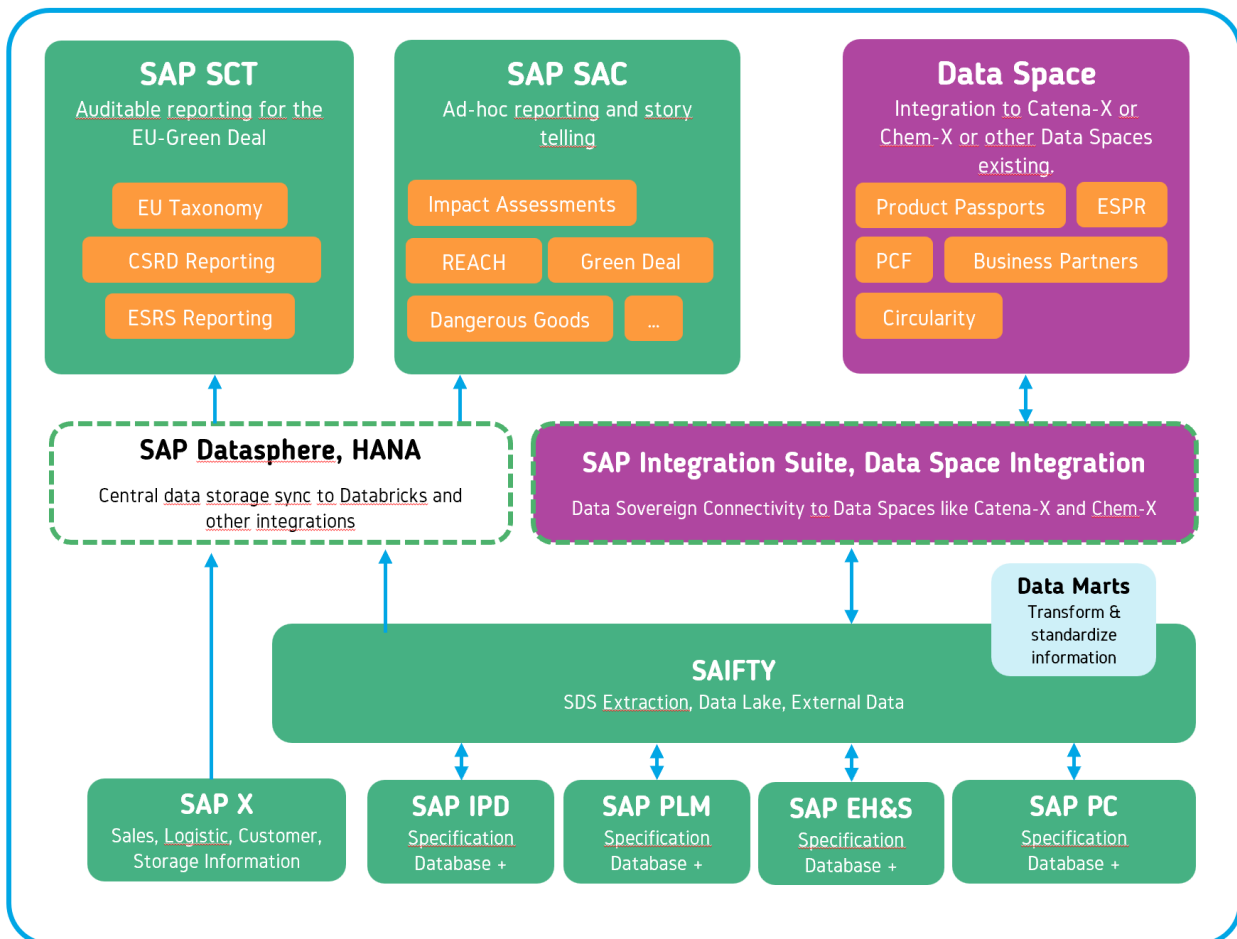
- **QR Code Generation:** The platform directly creates the required QR codes for the physical and digital retrieval of the DPP.
- **Real-Time Publication:** The complete generation and publication of the landing page occur within seconds without manual intervention.



## SAP Partnership & Native Integration

As a direct SAP partner, Coac ensures that SAIPTY seamlessly connects to your existing enterprise infrastructure, specifically the SAP Specification Database (SAP EHS / PLM). The platform features native data connectors for SAP and other major ERP architectures, ensuring that extracted information is actively integrated into your core business processes rather than merely being stored. By bridging the gap between unstructured supplier documents and structured enterprise resource planning, these connectors enable a continuous synchronization of product specifications. This guarantees that the foundation for your generated DPPs remains strictly aligned with your central ERP system, eliminating the need for manual data entry and preventing redundant data silos.

Additionally, SAIPTY utilizes advanced AI extraction to automatically map unstructured document data to standardized SAP phrase catalogs and industry phrases. This intelligent mapping ensures that the structured data serving all your generated DPPs is consistently accurate, up-to-date, and compliant. By automating this harmonization process, SAIPTY significantly reduces the time required for manual expert review while maintaining a reliable, real-time single source of truth for your compliance data.



# Battery Passport

The EU Battery Regulation mandates the battery passport as the first industry-specific DPP. Coac directly addresses this by offering the automated creation of Battery Passport DPPs within SAIFTY. The platform aggregates and processes the required data—such as material composition, origin, and environmental impact—across the supply chain to generate fully compliant battery passports without manual overhead.



DIGITAL BATTERY PASSPORT

## BP-12345

BP-123456

Verified high-capacity industrial battery module overview, detailing core chemistry algorithms, expected life-cycle states, and aggregated environmental data footprints. Engineer-ready verified diagnostics.

<b>STATUS</b> Active	<b>STATE OF CHARGE</b> 75%
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<b>CELL CHEMISTRY</b> <b>Lithium Ion Battery</b> EV BATTERY	<b>RATED ENERGY</b> <b>75 kWh</b> 400 V NOMINAL	<b>RATED CAPACITY</b> <b>200 Ah</b> 1200 LIFECYCLES	<b>NET MASS</b> <b>450 kg</b> DRY WEIGHT
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### MANUFACTURER DATA

COMPANY	Unknown
PRODUCTION DATE	2024-01-15
WARRANTY	24 months

### ENVIRONMENTAL PROFILE

CARBON FOOTPRINT	3200 kg CO2e
PERFORMANCE CLASS	A
RENEWABLE MATERIAL	45%

### HEALTH & DIAGNOSTICS (SOH)

CAPACITY FADE	5%
REMAINING EFFICIENCY	90%
REMAINING CAPACITY	85 Ah

### OPERATIONS & COMPLIANCE

OPERATING TEMP	-20°C to 60°C
DUE DILIGENCE REPORT	<a href="#">View Report</a>
SAFETY INSTRUCTIONS	<a href="#">Document Reference</a>

## Example Use Cases

The following examples illustrate how the platform automates the generation of product passports and compliance checks.

- **Automated Battery Passport Generation:** The platform utilizes advanced extraction technologies to read material compositions from supplier documents and automatically compares them against regulatory requirements.
- **Cross-Supply Chain Compliance Checking:** An automatic comparison of imported data from SDS and Excel lists against the specific data requirements of the respective industry DPP immediately uncovers missing information.

The screenshot displays a comparison interface for two products: CoreLink Eco-Flex and CoreLink Flex. The interface includes a 'Dynamic' dropdown menu and toggle switches for 'SAP data', 'Differences only', and 'Load details'. The data is organized into a table with a 'Specification Header' on the left and two columns of values. The 'Differences only' toggle is active, highlighting the discrepancies between the two products.

Specification Header	CoreLink Eco-Flex	CoreLink Flex
► Specification Header		
► 1. Identification		
► 3. PRODUCT		
► 4. PCF		
▼ 5. CIRCULARITY		
Circularity: Total Biogenic Content	0.024	0
Circularity: Certified Share Biogenic Content	0.0135	0
Circularity: Certified Share Recycled Content	72.0	9.0
Circularity: Total Recycled Content	76.5	13.5
Circularity: Waste Origin Recycled Content Contribution	76.5	13.5
► 6. WATER		

### Turn document complexity into structured business value.

Let us show you what Coac can do! Reach out for a personalized demo and discover how our DPP platform and seamless system integrations can eliminate manual effort and accelerate your product compliance workflows.

[Request a demo](#)

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