

Digital Product Passport & European Standardization

JTC 24 & Dutch position

European initiatives

- **EU Regulation:** Eco-design for Sustainable Product Regulation (ESPR)
- **Standardization Request**
 - From European Commission in July 2023
 - Request to CEN / CENELEC to develop standards
 - Deadline **31 December 2025**
- **Establishment of Joint Technical Committee 24:
'Digital Product Passport: Framework
and System'**

Battery Pass

Up to 90 data attributes, clustered into seven categories







Battery ID: 0101010





Battery passport ID: 1111010

Responsible economic operator




General information

-  Manufacturing info (identity, place, date)
-  Battery category
-  Battery weight
-  Battery status

Labels and certifications¹

-  Symbols and labels
-  Meaning of labels & symbols
-  Declaration of conformity
-  Compliance of test results





Carbon footprint

-  Carbon footprint (5 metrics)
-  Weblink to CF study
-  CF performance class





Supply chain due diligence

-  Due diligence report




Materials and composition

-  Hazardous substances
-  Battery chemistry
-  Critical raw materials
-  Materials used in cathode, anode, electrolyte

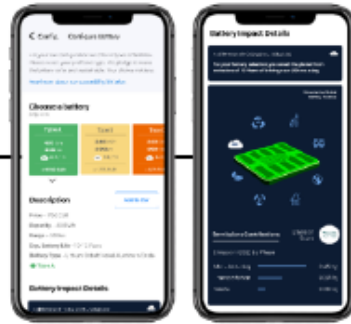
Circularity & resource efficiency

-  Recycled content shares
-  Manuals for removal, disassembly, dismantling
-  Component part numbers & spare parts information
-  Safety measures/instructions

Performance & durability

-  Capacity, energy, power, SoH
-  Expected lifetime
-  Negative events

Scope JTC 24



DPP Data

DPP data sector specific for:

- Batteries
- Electronics
- Textiles
- Construction Materials

→ Defined in different regulations (e.g., the Battery Regulation with further information available in the Battery Passport Content Guidance)



DPP System

Harmonized technical system for all DPPs:



Data Storage



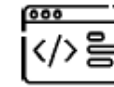
Data Carrier Identifier



Trust / Security / Sovereignty / Access



Data Exchange



IT Services / APIs



Workflows and Data Processing

JTC 24 'DPP – Framework and System'

Deliver harmonised standards for the DPP System

- **Secretariat: DIN (German standardisation body)**
- **Scope:**
 - Unique identifiers
 - Data carriers and links (physical product to digital representation)
 - Access rights management, information security, system security, business confidentiality
 - Interoperability (technical, semantic, organization)
 - Data processing, exchange protocols, data formats
 - Data storage, archiving, persistence
 - Data authentication, reliability, integrity
 - APIs for product passport lifecycle management and searchability
 - Data delivering system, data specification method for cross-sectoral and cross-system interoperability

JTC 24 'DPP – Framework and System'

Deliver harmonised standards for the DPP System

- **Excluded:**
 - Sector-specific standards
 - Deliverables covered by other CEN and CENELEC TCs
 - Definition of data content for different product types or segments.

SR Deliverables (31 Dec 2025)

8 Modules

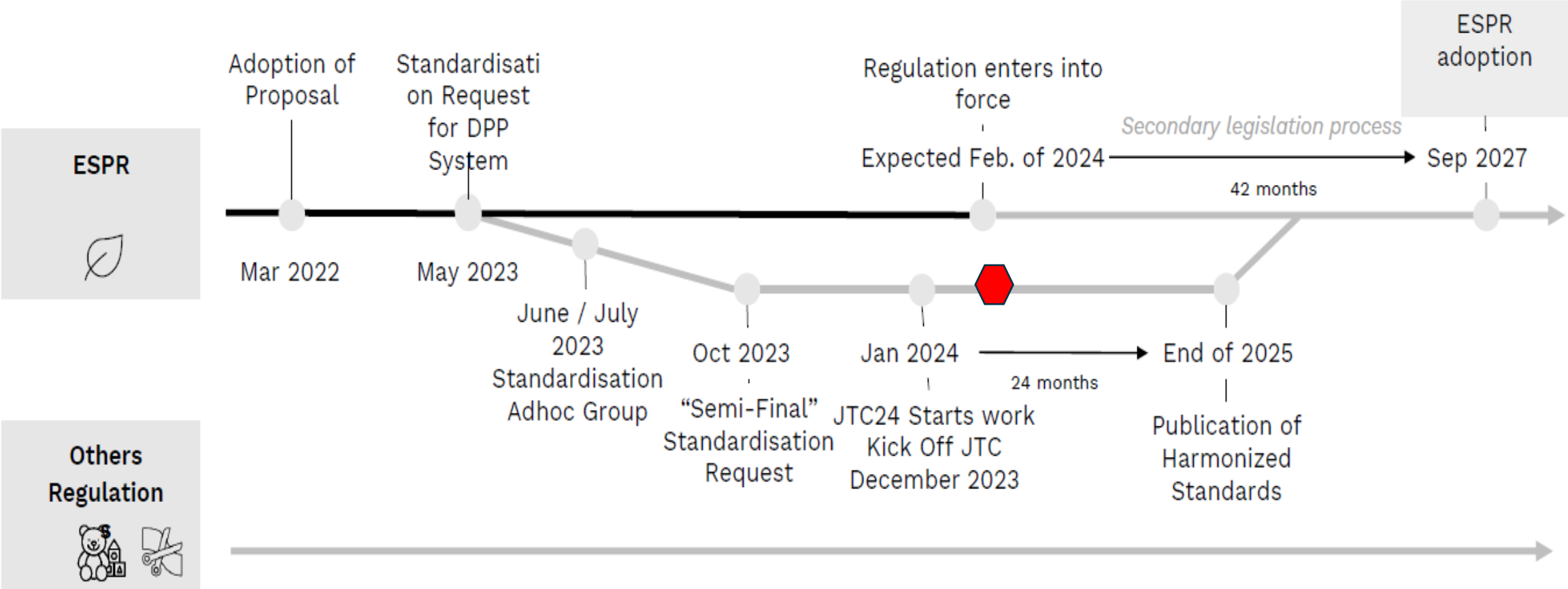
1. European standard(s) on unique identifiers
2. European standard(s) on data carriers and links between physical product and digital representation
3. European standard(s) on access rights management, information, system security, and business confidentiality
4. European standard(s) on interoperability (technical, semantic, organisation)
5. European standard(s) on data processing, data exchange protocols and data formats
6. European standard(s) on data storage, archiving, and data persistence
7. European standard(s) on data authentication, reliability, integrity
8. European standards on Application Programming Interfaces (APIs) for the product passport lifecycle management and searchability

Working Group overview

Working groups under JTC 24

- **WG 1 – Strategic Advisory Group**
 - Convenor: Martin Schreck (No)
 - Secretariat: Standards Norway
- **WG 2 – Unique identifiers and data carriers**
 - Convenor: Johan Dahlgren (Se)
 - Secretariat: Swedish Institute for Standards
 - SR Modules 1 & 2
- **WG 3 – Security**
 - Leadership tbc
 - SR Modules 3 & 7
- **WG 4 – Interoperability framework**
 - Convenors: Otto Handle (Au) & Richard Merkel (De)
 - Secretariat: Austrian Standards International
 - SR Modules 4,5,6 & 8

Timeline



Dutch mirror committee

- Open for Dutch stakeholders interested in the work of JTC 24
- First meeting on **23 May from 13:00-15:00**
- Membership fee of €2500 p/y per member organisation; exceptions for some organisation types

Tasks and responsibilities:

- Follow the work of JTC 24 and come to a Dutch position
- Dutch experts can join European Working Groups (in own name)
- Dutch committee members can vote and comments on standards under development in JTC 24 Working Groups through NEN online platform
 - 1 Dutch vote (based on consensus)
- Dutch committee members can represent the Netherlands in JTC 24 plenary meetings

Interested in joining?

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Thank you