Content Requirements for the Battery Passport

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State of play and possible future developments of the DPP
March 5th 2024
Scope of the Battery Passport
The battery passport is defined in Article 77 of the Battery Regulation and encompasses reporting requirements covering the entire battery life cycle.

<table>
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<tr>
<th>Lifecycle stages</th>
<th>Sourcing &amp; production</th>
<th>Usage</th>
<th>End of life</th>
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<tr>
<td>Art. 6: Restriction of substances</td>
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<td>Art. 7: Carbon footprint</td>
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<td>Art. 8: Recycled content</td>
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<td>Art. 13: Labelling and marking</td>
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<td>Art. 14: State of health and exp. lifetime</td>
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<td>Art. 48-53: Due diligence policies</td>
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<td>Art. 54 – 76: Mgmt. of waste batteries</td>
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<td>Art. 77 - 78: Digital Battery Passport</td>
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<td>Art. 85: Green public procurement</td>
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The battery passport will be required for EV, LMT and industrial batteries > 2 kWh from February 2027 with the main responsibility lying with the “economic operator”

Specifications for the battery passport

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<th>Timeline</th>
<th>The battery passport will be required from 18 February 2027</th>
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<tbody>
<tr>
<td>Scope</td>
<td>• Batteries in light means of transport (LMT)</td>
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<td>• Industrial batteries with a capacity greater than 2 kWh</td>
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<td>• Electric vehicle (EV) batteries</td>
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<td>Responsibility</td>
<td>The responsibility lies with the economic operator (or an authorized representative) placing the battery on the market</td>
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<td>Stakeholder Groups</td>
<td>1) The general public</td>
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<td>2) Notified bodies, market surveillance authorities and the Commission</td>
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<td>3) Any natural or legal person with a legitimate interest in accessing and processing that information</td>
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Battery Passport content and system outlined in the Battery Passport Content Guidance
The EU Battery Regulation defines all mandatory data attributes to be made accessible via the battery passport. Further regulations serve as a source to:

- complement definitions,
- generate additional background information, and
- harmonise reporting requirements.

Scope was limited to EU and key Member States regulations to align with other (upcoming) requirements in the region, e.g., the Ecodesign for Sustainable Products Regulation (ESPR) and the German Supply Chain Act.

More than 100 organizations from the broader Battery Pass network participated in a consultation webinar submitting more than 250 comments on the draft report during a feedback phase lasting around two months.
The battery passport will contain a wide array of information

Data categories for the battery passport (select data attributes shown below)

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

1) Labels and symbols are covered in section 5. „Battery materials and composition“ in the following. Information on compliance can be found in the main Guidance Document.
The battery passport system relies on data collection, processing and providing access to the different stakeholder groups

3) Data access

- Access Groups
  - "General public"
  - "Notified bodies, market surveillance authorities and the Commission"
  - "Any natural or legal person with a legitimate interest"

- Data Carrier & Unique Identifier
- Passport Registry
  - By the Commission incl. at least identification data
- Web Portal
  - By the Commission to search for information included in product passports

2) Data processing

1) Data collection and exchange

Optional supportive systems (e.g., traceability systems)

Miner → Refiner → Precursor and CAM producer → Cells and modules producer → Pack producer → OEM

Economic operator back-end system(s)
- Data is gathered, processed, and transferred

Dynamic and static downstream data

Static data within upstream organisations

1) Data is collected within organisations and exchanged between value chain players

2) Data is gathered, processed and transferred to the product passport by the economic operator

3) Data is accessed from product passport by pre-defined groups based on respective access rights

* Described in ESPR, not included in Battery Regulation
The content of the battery passport and all data attributes are explained in the Battery Pass Content Guidance.

- Comprehensive report: PDF report (200 pages)
- Executive Summary: Slide deck
- Data attribute longlist: Excel file

All documents available on the Battery Pass website.

In work: DIN DKE SPEC 99100

- Document in **standardisation format** based on previous documents
- **Consortium:** Battery Pass consortium members & further interested stakeholders
- To be finalised by April 2024

**Scope & Goal:**

- Focus on battery passport **content** requirements
- Guidance for companies on how to implement the battery passport
Thank you for your interest!

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