Status of DPP-standardisation in CEN/CLC JTC 24 and the Battery Passport

Sebastian Käbisch (Siemens AG)

IDTA Tech Days, 1. October 2025

Roadmap JTC24

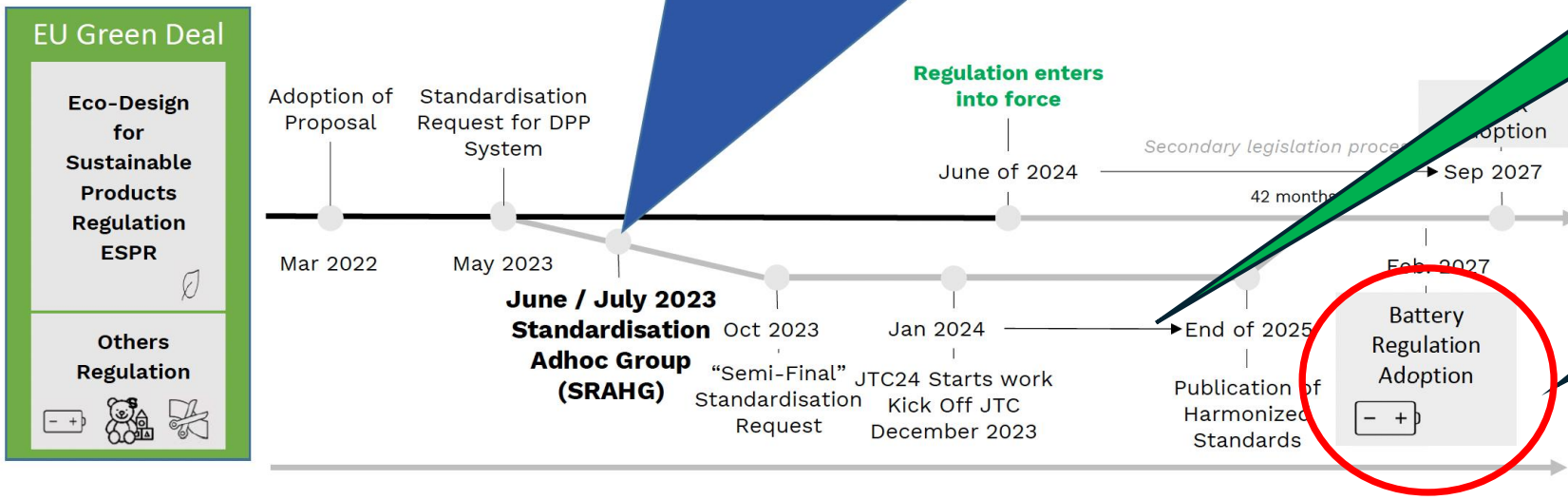
EU Green Deal is driving DPP standardization
Global impact is considered from the beginning

A global perspective on DPP is needed in particular for a global Quality Infrastructure

Example Feedback from SRAHG to European Commission in July 2023: “Clarify the need of infrastructure for exchanging DPP relevant data in global supply chains”

We are here!
Just started to process the comments from the enquiry in the WGs

Digital Battery Passport is not part of JTC24/ESPR anymore



NSB Comments Statistics from Enquiry

WG 1 Strategic Advisory Group Convener: Martin Schreck (SN)	WG 2 Unique identifiers and data carriers Convener: Johan Dahlgren (SIS)	WG 3 Security Convener: Torgeir Waterhouse (SN) Co Convener: Constant Kohler (SB)	WG 4 Interoperability framework Convener: Otto Handle (ASI)

• Common Time Line elaborated
• System Picture (Architecture) elaborated
• Use Cases and User Stories elaborated
• Business Plan
• Liaisons
• Monthly Update with EC
	• NWIP for Data Carrier and Unique Identifier established
	• **Drafts for Data Carrier and Unique Identifier elaborated**
		• NWIP established
		• Convenor appointed and approved
		• **Drafts expected in February 2025**
			• NWIP established for all related modules:
			  • Data processing and exchange
			  • Data storage
			  • API
			  • Data Modelling

4 countries have rejected

> 3000 NSB comments

Still collecting comments

> 1700 NSB comments

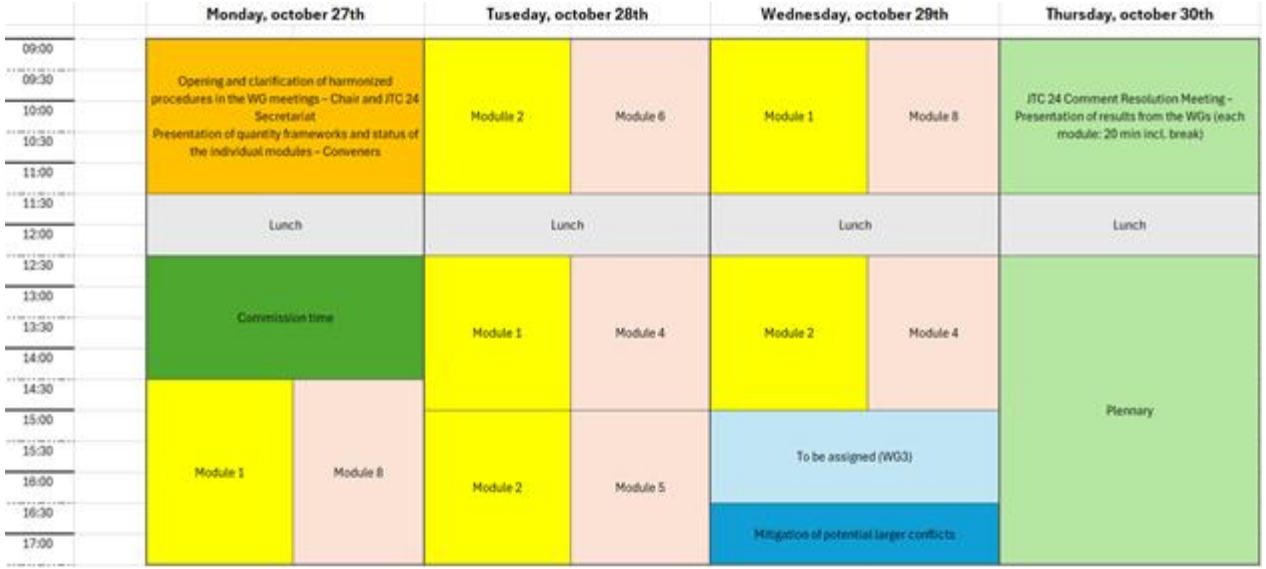
Detail Roadmap

WG4 roadmap to resolve the “easy” comments

Order of the modules

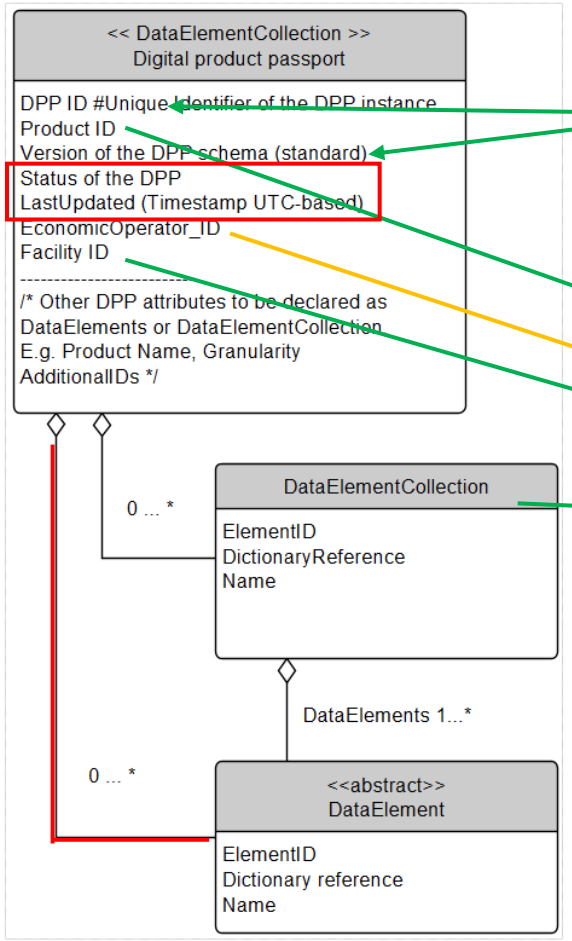
	09:30 - 11:00	11:10 - 12:45
23.09.2025	Modul 5	Modul 4
30.09.2025	Changed! Modul 4	Modul 6
07.10.2025	Changed! Modul 8	Modul 5
14.10.2025	Modul 6	Modul 8
21.10.2025	Modul 5	Modul 4
Paris 28.10.	Modul 8	Modul 6
Paris 29.10.	Modul 4	Modul 5
Paris maybe also joint meeting with WG 3		
04.11.2025	Modul 6	Modul 8
11.11.2025	Modul 5	Modul 4
18.11.2025	Modul 8	Modul 6
25.11.2025	finalisation	

Paris F2F meeting to resolve “difficult” comments



JTC24 Model (Modul 4) & AAS Model

FIGURE 2



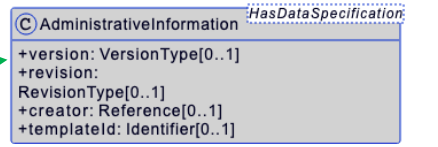
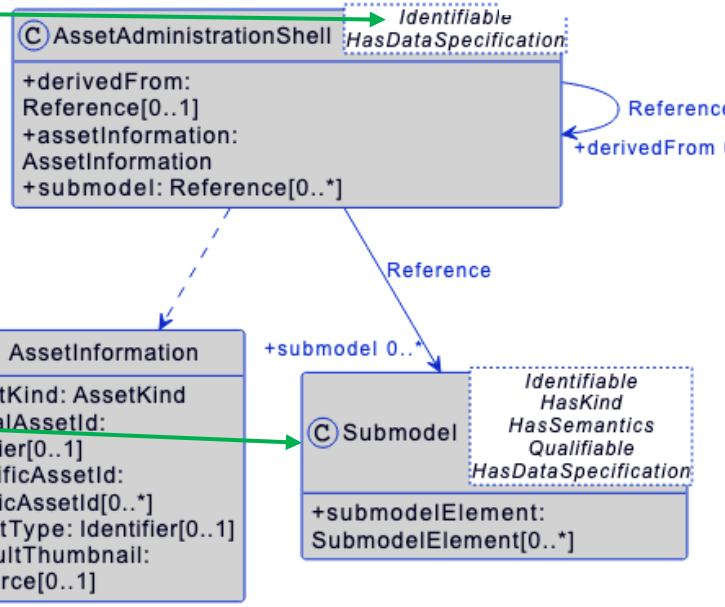


Figure 1. Metamodel of Administrative Information



EconomicOperatorId may not associated as an asset, there can be an intermedia distributor

Figure 1. Metamodel of an AssetAdministrationShell

TITLE

UML representation of the entities of the Semantic model of the DPP.

European Commission's (EC) Battery Regulation

European Commission | English | Search

Energy, Climate change, Environment

Environment

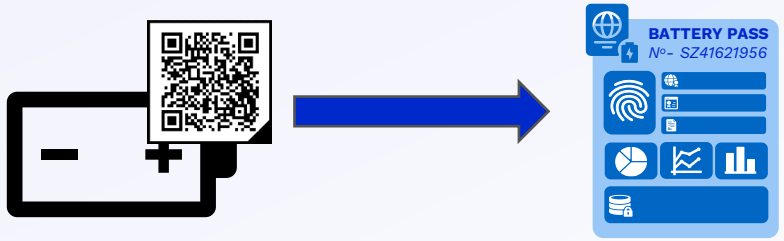
Home > News > Circular economy: New law on more sustainable, circular and safe batteries enters into force

NEWS ARTICLE | 17 August 2023 | Directorate-General for Environment

Circular economy: New law on more sustainable, circular and safe batteries enters into force

GettyImages/Petmal

To help consumers make informed decisions on which batteries to purchase, key data will be provided on a label. A QR code will provide access to a digital passport with detailed information on each battery that will help consumers and especially professionals along the value chain in their efforts to make the circular economy a reality for batteries.



From 18th February 2027:
EV and industrial batteries on the EU market will require a unique battery passport

Source: https://environment.ec.europa.eu/news/new-law-more-sustainable-circular-and-safe-batteries-enters-force-2023-08-17_en

Joint Activity to Implement EC Digital Battery Passport

Industrial
Digital
Twin
Association

- Association for the Asset Administration Shell (AAS) technology
- Maintains generic & application specific AAS Submodels
- Supports AAS specification via IEC 63278

https://industrialdigitaltwin.org/en/

Catena-X
Automotive Network

- Funded EU and BMWK project to improve data exchange systems in the automotive value chain
- uses AAS; Circularity group consider Battery Passport use case

https://catena-x.net/en/

Battery Pass

- Supported BMWK project to work on the requirements of the EU Battery Passport
- Provides a detailed list of the required battery characteristics for the Battery Passport
- Results are documented in DIN SPEC 99100

https://thebatterypass.eu

Members of the Joint Activity

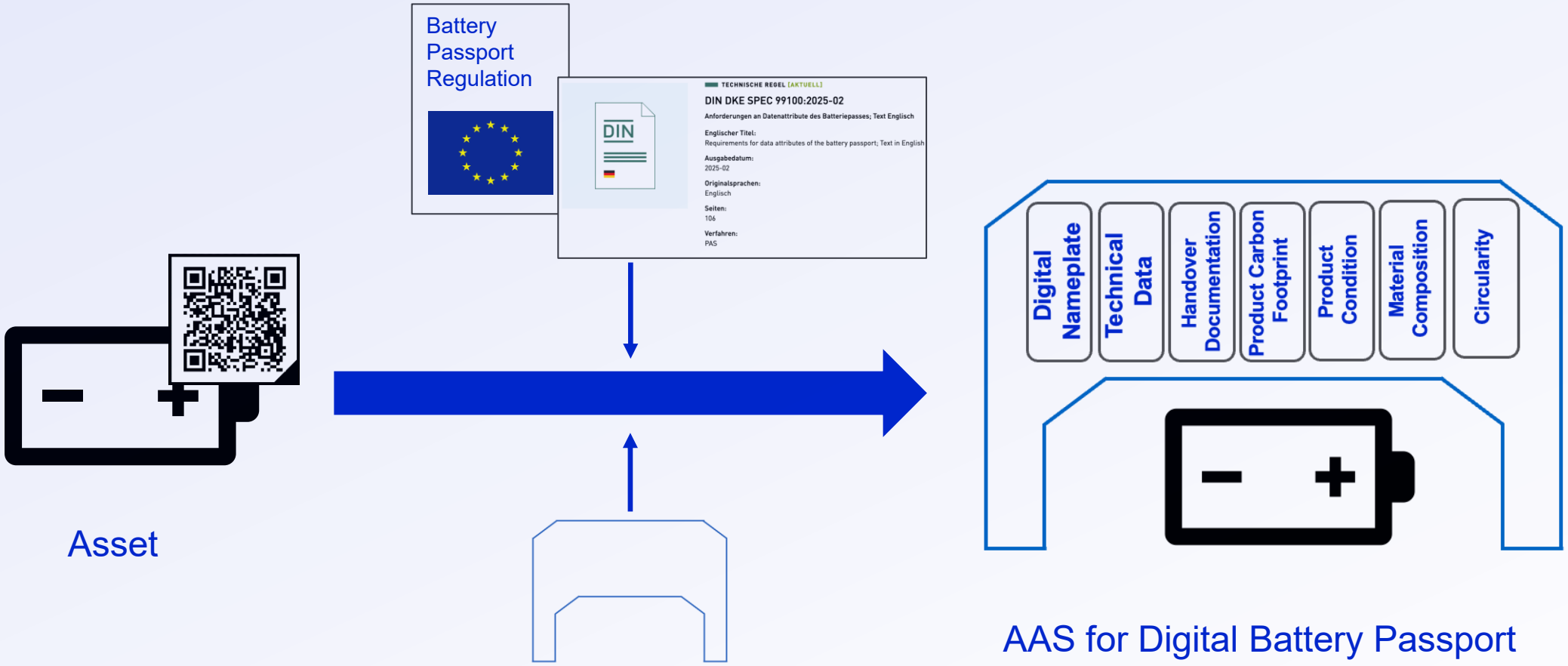
CATL, Shenzhen Precise Testing Technology Co., Huawei, Volvo

Siemens, Circulor, Bosch, Harting, ECLASS Office, BASF, Fraunhofer, SAP, Capgemini, ZF, Consileon, Eviden, Dräxlmaier, MHP, M&M Software, Dataciders InMediasP, Volkswagen, msg group

IBM, Microsoft, Amazon

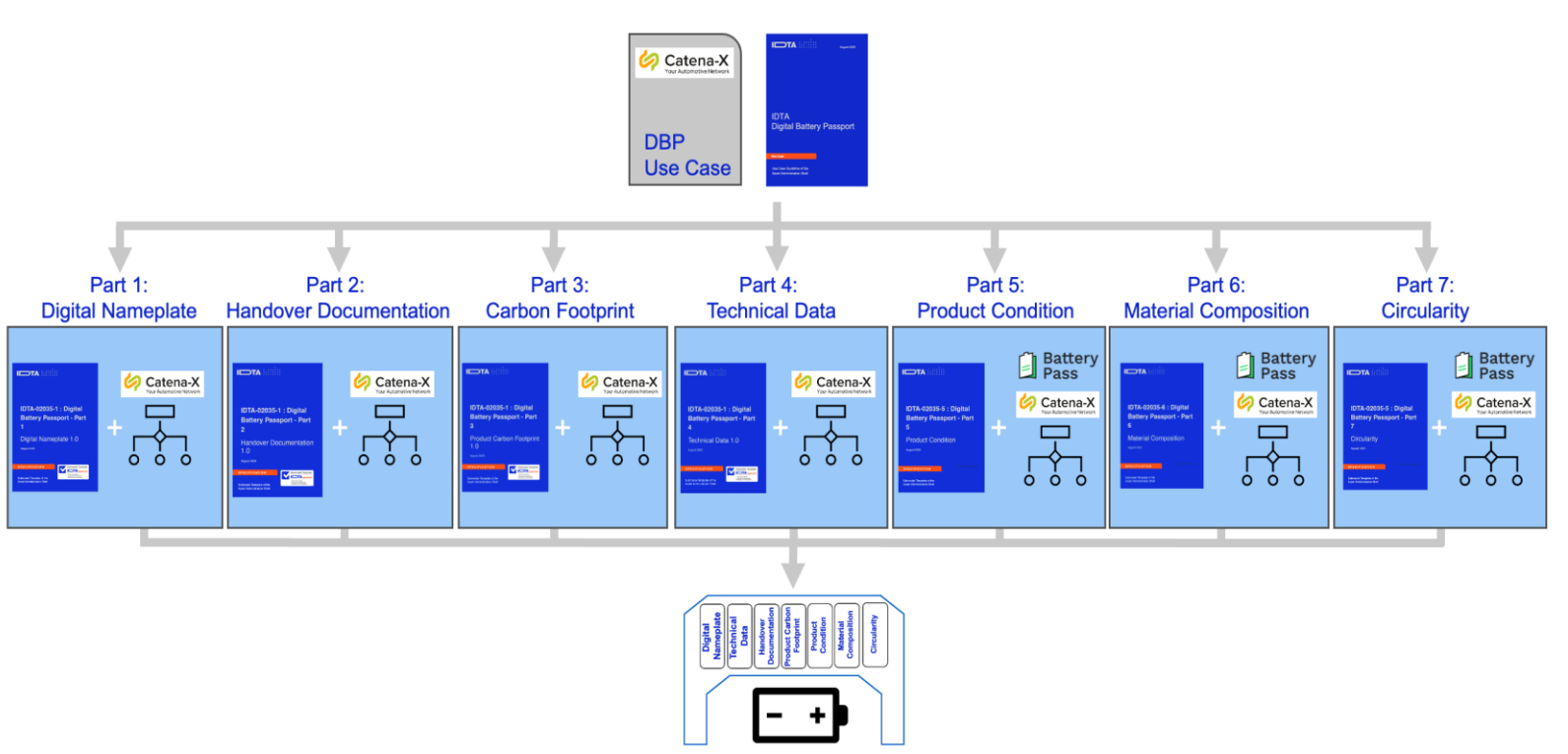
Hitachi, Denso, NTT DATA

Goal of the Joint Activity



Specify an AAS template of Submodels for the Digital Battery Passport that complies with the guidelines for the content of the EC battery passport

Digital Battery Passport submodels in review until 2.10.2025!



- Proposed submodels for the Digital Battery Passport that meet EU requirements are currently being reviewed
- IDTA and Catena-X members can provides comments