SLOVENSKI STANDARD
SIST EN 18222:2026

01-julij-2026

Digitalni potni list izdelka - Programski aplikacijski vmesniki (API) za upravljanje življenjskega cikla in možnost iskanja potnega lista proizvodov

Digital Product Passport - Application Programming Interfaces (APIs) for the product passport lifecycle management and searchability

Digitaler Produktpass - Programmierschnittstellen (APIs) für das Lebenszyklusmanagement und die Durchsuchbarkeit vom Produktpass

Passeport numérique des produits - Interfaces de programmation d'applications (API) pour la gestion du cycle de vie et la recherchabilité du passeport d'un produit

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English version

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European foreword

This document (EN 18222:2026) has been prepared by Technical Committee CEN/CLC/JTC 24 “Digital Product Passport – Framework and System”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2026, and conflicting national standards shall be withdrawn at the latest by November 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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Introduction

0.1 Background

A digital product passport (DPP) is a key enabling mechanism to make product information traceable and accessible across value chains - supporting economic operators, manufacturers, distributors, repairers, recyclers and consumers to make informed decisions and to support a circular economy. The implementation of digital product passports will be carried out progressively. Sector-specific initiatives will determine the precise DPP content and requirements for individual product groups.

To support the implementation of DPPs, 8 standards have been developed so far:

— EN 18219:2026 – Digital product passport – Unique identifiers

— EN 18220:2026 – Digital product passport – Data carriers

— EN 18216:2026 – Digital product passport – Data exchange protocols

— EN 18222: 2026 – Digital Product Passport – Application Programming Interfaces (APIs) for the product passport lifecycle management and searchability (this document)

— EN 18223:2026 – Digital Product Passport – System interoperability

— EN 18221:2026 – Digital product passport – data storage, archiving, and data persistence

— EN 18239:—[1] – Digital Product Passport – access rights management, information system security, and business confidentiality

— EN 18246:—[2] – Digital Product Passport – Data authentication, reliability and integrity

0.2 Overview

The Ecodesign for Sustainable Products Regulation (ESPR) is an initiative by the European Commission aimed at promoting sustainable products by setting comprehensive requirements for product design, production, and lifecycle management. Central to this initiative is the digital product passport (DPP), which tracks and provides essential information about a product's sustainability attributes. Beside of that also other data can be stored in a DPP depending on future delegated acts and the needs of economic operators.

This document introduces the specifications for the API of the DPP, as mandated by the ESPR. The API is designed to enhance the searchability of DPPs and to support interactions throughout the lifecycle of a product's DPP. Furthermore, it also provides an API to register a DPP at the DPP registry.

The API methods are presented on a technology-neutral level, detailing the expected inputs and outputs for each method. A detailed technological implementation using a REST-HTTP API is described in the Clause 8, providing guidelines for developers to implement the functionality effectively within their specific environments.

The specification document of EN 18223 describes the logical content of the payload that is used by the API. EN 18216 defines the basic principles of the exchange protocol and the allowed serialization formats of the payload data. Security requirements need to be followed based on the specification document of EN 18246[2].

[1] Under preparation. Stage at the time of publication: prEN 18239:2025.
[2] Under preparation. Stage at the time of publication: prEN 18246:2025.

1 Scope

This document aims to standardize the specifications for the API of the digital product passport (DPP) as mandated by the ESPR of the European Commission. The purpose of this API is to facilitate the searchability of DPPs, as well as to provide the necessary means for interactions throughout the lifecycle of a product's DPP.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 18221:2026, *Digital product passport - data storage, archiving, and data persistence*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
application programming interface
API
set of *methods* (3.3) provided by an application component for use by other application components

3.1.1
representational state transfer application programming interface
REST API
service that allows for interaction with resources via a stateless, client-server architecture, typically using standard HTTP calls like GET, POST, PUT, and DELETE to perform *methods* (3.3) by an application component on these resources

3.2
digital product passport
DPP
digital record of product characteristics throughout its life cycle

Note 1 to entry: Example characteristics include environmental sustainability, environmental impact, and recyclability

3.3
method
particular way used to perform a specific action on a resource

EXAMPLE read a DPP

3.4
parameter
data provided by a client, that is needed to perform a *method* (3.3)