

The European electronic toll service and CEN EFC standards

Jesper Engdahl

Convenor of CEN/TC 278/WG 1 & ISO/TC 204/WG 5 | 9 May 2025

Outline

1. Overview of standards and Electronic Fee Collection (EFC) standardization
2. The European electronic toll service (EETS) and CEN EFC standards

1. Overview of standards and EFC standardization

Overview of standards and EFC standardization

- **What is a standard?**

- A document approved by a recognized standardization body (CEN, ISO,...), intended to be used repeatedly, creating synergies and reducing costs, maintained to keep abreast with market developments and technology advancements
- Standards are not laws but sometimes referred to in legislation



- **EFC standardization**

- Create and ensure the long-term stability of the EFC ecosystem, support agreement, open market and interoperability
- 50+ published Standards, Technical Specifications and Technical Reports
System architecture, vocabulary, data dictionary, information exchanges for charging and compliance checking, security, testing for conformance assessment
- **8 CEN EFC standards are referred to in the EETS legislation**
- For more details – see [Introduction to standards on electronic fee collection \(EFC\)](#)

2. The EETS and CEN EFC standards

Recast of the European electronic toll service (EETS) legislation

- [EU Directive 2019/520](#) on Interoperability of electronic road toll systems and facilitating cross-border exchange of information on the failure to pay road fees
- Commission [Implementing Regulation \(EU\) 2020/204](#) on detailed obligations of Toll Service Providers and Toll Charges
- Commission [Delegated Regulation \(EU\) 2020/203](#) on obligations of users, classification of vehicles, requirements for interoperability constituents and NBs
- **8 CEN EFC standards**, dated editions, are referred to in the EETS legal acts

Recast of the EETS legislation – main changes

Main changes compared to the previous version (Directive 2004/52/EC and Decision 2009/750/EC)

- Cross border enforcement has been added
- Separation of EETS Heavy Duty Vehicles (HDVs) and EETS Light Vehicles
- Clarification of responsibilities (for EETS providers)
- Efforts to remove market entry barriers (e.g. regional EETS) and to promote competition
- Automatic Number Plate Recognition (ANPR) added as an accepted EETS charging technology
- Harmonization of back-office interfaces based on CEN/TS 16986
- Enhanced service definition through references to Standards
- The Standards explicitly mentioned in the legal acts make them legally binding as part of the legislation

EFC standards and EETS

Not the same scope

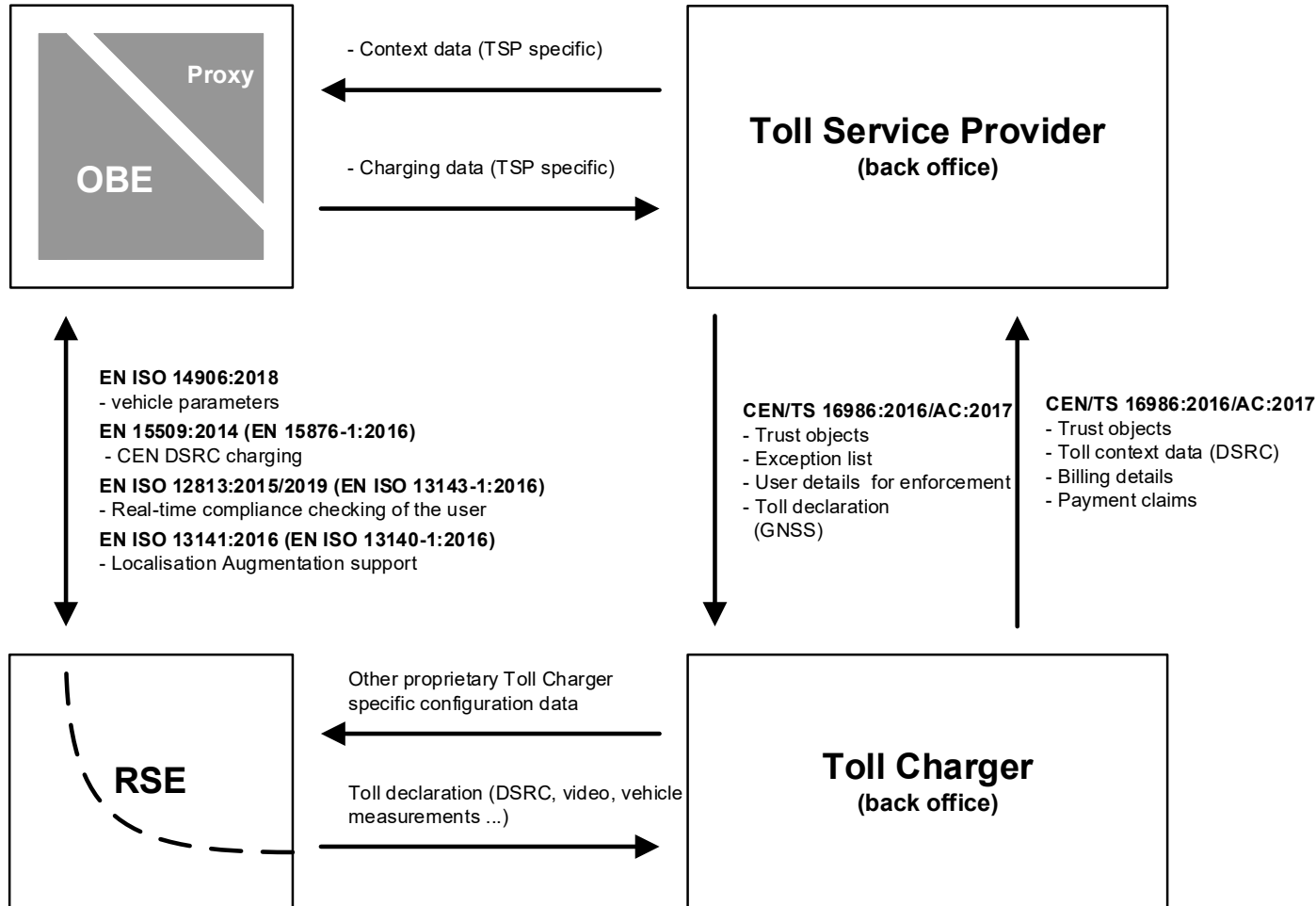
- EETS is a single service: Users are free to take advantage of the local and/or the European service
- EFC standards support broader technical needs: Used in 50 countries, 140 systems, 150 million vehicles

EFC standards support EETS

- by providing technical building blocks...
- ... but do not have the task to deliver "tailor-made" specifications for EETS
- ... this is up to the owner of EETS
- non-technical aspects are outside the scope of CEN

Legislator decides on the legal status of standards

EFC standards and EETS



- EETS legislation refers to dated versions of standards
- The legislator decides whether to refer to (updated) standards in legislation. Updated versions of referenced standards are not automatically adopted in the EETS legislation
- Several of the dated referenced standards have been updated (see [Introduction to standards on EFC](#), Annex – Published EFC CEN/ISO documents). Others are being updated

Want to know more or participate?

Jesper Engdahl, WG Convenor

T +41 58 595 78 53

jesper.engdahl@rapp.ch

