



SATELLIC TOLL CHARGER SERVICES

MANAGING THE CHALLENGES OF THE EETS ERA

The present and future European tolling market is defined by Directive 2004/52/EC of the European Parliament and of the Council of April 29, 2004 and the Commission Decision 2009/750/EC of October 6, 2009. These regulations define the requirements

and organization of a competitive and interoperable European road charging market, allowing road users to access all major tolled infrastructure under a single contract with a toll service provider (TSP) of their choice.

THE BASIC LANDSCAPE OF EETS

While interoperability managers are primarily responsible for ensuring connections, providing the legal framework, and conflict resolution, the main operative entities are EETS (European Electronic Toll Service) providers and toll chargers (TC).

In a nutshell, a toll charger holds the right to charge users of a certain toll domain, defines tariffs, performs compliance checks on infrastructure users and prosecutes violations (enforcement). Toll chargers receive all collected road charges. The service user has no direct contractual connection with the toll charger, but instead selects an EETS provider to fulfill tolling requirements.

The EETS provider is responsible for user management, toll detection and billing, and transfer of road charges to the respective toll chargers.

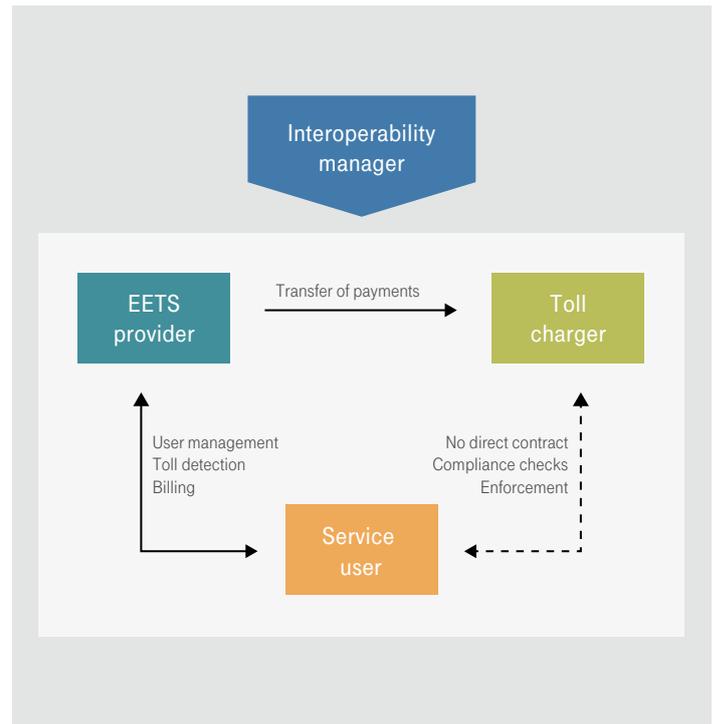
STANDARDS REDUCE COMPLEX RELATIONS BETWEEN BUSINESS ENTITIES

Besides defining the business landscape, the EETS legislation uses a framework of standards to describe the collaboration between the business entities in more detail.

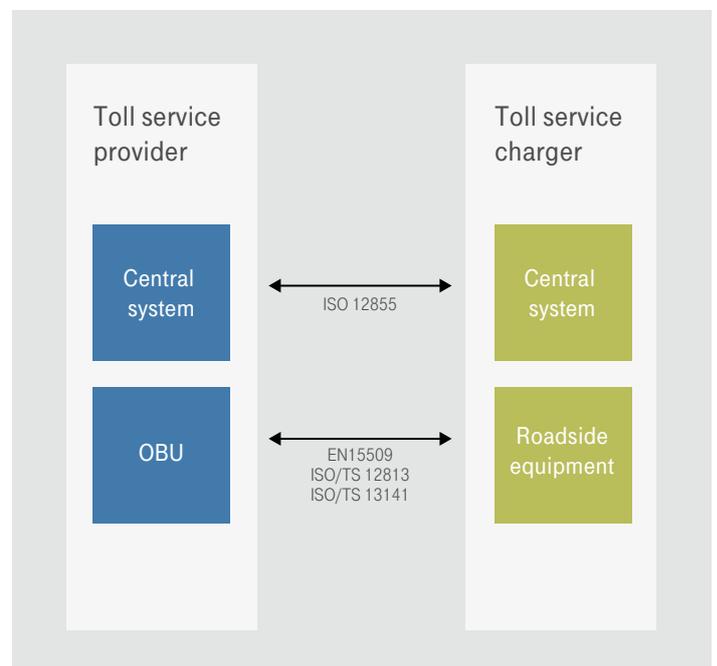
The most relevant technical aspect is the cooperation of toll service providers with toll chargers, which is essentially an n:m relation.

To minimize complexity, this relationship is fundamentally defined by key standards. When it comes to central systems relations, the main standard is ISO 12855. EN 15509, ISO/TS 12813 and ISO/TS 13141 are the standards for the DSRC interface for compliance checks (enforcement) and positioning augmentation in the toll charger's domain, respectively.

EETS ROLES AND RELATIONS



RELATIONS BETWEEN TOLL SERVICE PROVIDER AND TOLL CHARGER



OUR OFFER FOR TOLL CHARGERS

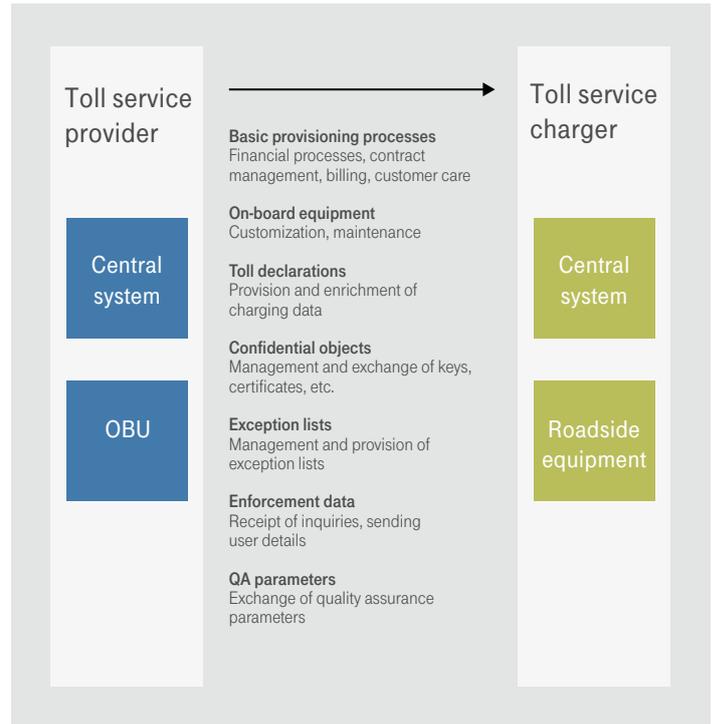
The Satellic Tolling Platform is the modular high-end solution T-Systems has developed for toll service providers. With our extensive experience in road user charging and our active contributions to the EETS standardization process, we are the ideal partner to help toll chargers with designing, implementing, testing, maintaining and operating the required central systems.

T-Systems Satellic Telematic Services can also support toll chargers in conducting domain-specific acceptance tests for toll service providers by designing and operating test systems. These systems specifically check the technical and procedural aspects defined in the toll charger's domain statement.

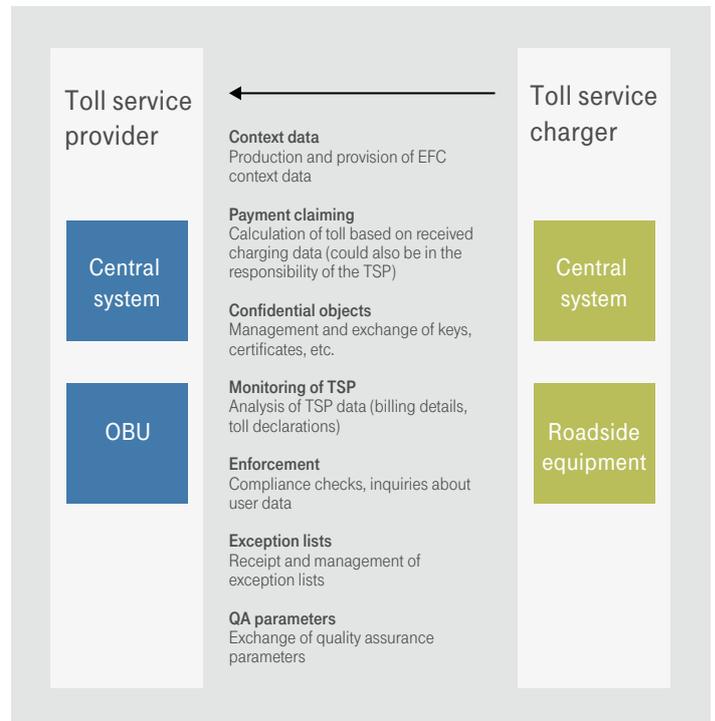
We recommend using our complementary TSP simulator as both a reference system and a validator for the interface and process implementation of the Toll Charger system. Reflecting the wide variation in technical and legal requirements in domain statements, Satellic Toll Charger Services involve dedicated implementation projects.

Toll chargers have many options with regard to the resulting system. Apart from purchasing it, toll chargers can acquire usage licenses, access it as a cloud service or even outsource the respective business processes.

OFFERS FOR TOLL CHARGERS: PROVISIONING



OFFERS FOR TOLL CHARGERS: CHARGING



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