

European truck tolls from a single source

Toll4Europe enables cross-border trips with just one on-board unit



Powered by TRUST (T-Systems Road User Services Tolling) , T-Systems' Road User Services Tolling platform, Toll4Europe— a EETS (European Electronic Toll Service) service provider— combines deep expertise and smart technology to deliver a seamless, all-in-one tolling solution across Europe. Toll4Europe integrates complex systems, interfaces, and standards into a single interoperable platform, ensuring continuity and stability in the EETS market. The result is an efficient, user-friendly service that simplifies cross-border mobility and connects Europe through intelligent tolling.

The European Union, with its 27 member states, has a diverse landscape of truck toll systems shaped by each country's unique history. This diversity has resulted in a patchwork of technical solutions, primarily based on two distinct technologies to track truck movements: satellite-based GNSS (Global Navigation Satellite System) and microwave-based DSRC (Dedicated Short Range Communication). Combined with different billing and enforcement processes, truck drivers who crossed multiple countries faced the challenge of installing different on-board units (OBUs), signing separate contracts, and managing multiple invoices for each country in which they operated.

For truck drivers, this meant higher costs and complexity—until then. The EU's EETS Directive (2004/52) mandates interoperability of electronic road toll systems across Europe, allowing the use of a single, functional OBU throughout the continent. This enables compliant billing of national road tolls through one contractor, significantly reducing administrative and operational burdens.

Since 2018, Toll4Europe has been an accredited EETS provider in many European countries, offering streamlined truck toll collection across multiple nations. By leveraging this unified approach, Toll4Europe helps drivers save time and costs while ensuring smooth cross-border mobility.



At a glance

- **Standardized billing:** Clear, precise invoicing across all toll regions
- **Reduced complexity:** Toll4Europe unifies country-specific regulations and acts as the seamless link between toll operators, sales partners, and toll payers
- **Fully integrated service:** End-to-end coordination from registration and OBU logistics to billing
- **In short:** Toll4Europe blends innovation and forward-thinking mobility solutions with outstanding customer service

Reference in detail



Customer pain points

The European road toll landscape remains deeply fragmented, shaped by decades of divergent national policies, technologies, and legal frameworks. Each country operates its own toll collection systems—some classifying tolls as taxes, others as fees—supported by varying technologies such as GNSS and DSRC. This results in significant inconsistencies in billing systems, enforcement procedures, interface standards, and contractual models.

For logistics providers and HGV (Heavy Goods Vehicle) fleet operators, the impact is substantial: multiple OBUs, separate contracts, and complex, country-specific invoicing. Overcoming this complex challenge requires in-depth system integration expertise, regulatory knowledge, and technological innovation—core competencies that T-Systems contributes with its **TRUST platform** and intelligent cross-border solutions for simplifying and standardizing European toll systems.



How T-Systems solved it

T-Systems, a subsidiary of Deutsche Telekom, addresses the complexity of European tolling through Toll4Europe, its certified EETS provider. Built on the scalable and interoperable TRUST platform, this solution harmonizes the wide variety of national toll systems under one unified framework—meeting local requirements while complying with pan-European standards.

At the heart of the solution is Toll4Europe's smart and user-friendly on-board unit, which integrates both GNSS and DSRC technologies. This enables accurate toll detection, compliant billing, and seamless communication across borders. Over-the-air (OTA) updates allow the activation of new toll domains and value-added services at any time, while the modular platform ensures compatibility with third-party systems and flexible integration into fleet operations.

The OBU supports self-installation, fleet-wide portability, and country-specific features—streamlining logistics and reducing administrative effort for transport operators.

Together, T-Systems and Toll4Europe continue to innovate, expanding digital mobility services that enhance market appeal and improve the driver experience. With T-Systems' proven expertise and the TRUST platform as its foundation, Toll4Europe ensures reliable, secure toll collection and truly interoperable, cross-border mobility—powered by a pioneer in European road tolling.



Reference in detail



Business impact

Toll4Europe's mission is clear: to cover the entire European continent with just one on-board unit and a unified EETS platform. The service is already live in Belgium, Germany, France, Spain, Portugal, Austria, Bulgaria, Hungary, Italy, Switzerland, Poland, Slovakia, Slovenia, Denmark (Storebælt Bridge), Sweden (Øresund Bridge), and various tunnels. They are also expanding the offering to other countries, including the Czech Republic, the Netherlands, and the French region of Alsace, and are planning further expansions in Europe

One device, pan-European reach

A single on-board unit enables access to all toll areas supported by EETS, eliminating the need for multiple devices, providers and contracts.

Lower costs, less complexity

Simplify operations and reduce administrative overhead with unified tolling, single monthly invoicing, and streamlined contract management.

Modular & flexible architecture

The **TRUST** platform integrates easily with existing systems, allowing for fast deployment and tailored value-added services through third-party integration.

Easy fleet integration

Self-installation in minutes, plug-and-play OBU swaps, and fleet-wide manageability make integration smooth and scalable—without workshops or returns.

Precision, transparency, and security

By dynamically switching between satellite positioning, cellular networks, and short-range communication, the OBU ensures accurate vehicle tracking and toll calculation **in every toll domain**. Daily data updates support efficient fleet management. Billing is secure and transparent, fully compliant with ISO 27001 and GDPR standards to safeguard customer privacy.

True interoperability across Europe

The Toll4Europe OBU combines GNSS and DSRC technologies in one compact unit. Seamless data exchange, over-the-air system updates, and full compatibility with national tolling standards ensure reliable toll recognition across borders.

Contact

www.t-systems.com/email-us
00800 33 090300*

* from the following countries: Austria, Belgium, Denmark, France, Germany, Great Britain, Luxembourg, Netherlands, Norway, Poland, Portugal, South Africa, Spain, Sweden and Switzerland.

Published by

T-Systems International GmbH
Marketing
Hahnstraße 43d
60528 Frankfurt am Main
Germany